

		20 (188) 200 S		
Parcel Information	Parcel Information		tion	
Parcel #:	1193	Tax Year	An	nual Tax
Tax Account:	1515170000100	2021		\$708.54
Site Address:	8911 SW Wiley Rd	2020		\$646.59
	Powell Butte OR 97753	2019		\$596.59
Owner:	818 Powell Butte LLC	11		
	21059 Avery Ln	Legal		
	Bend OR 97702	Lot: 18, Block: 4	Township	: 15S, Range: 15E, Section: 17
Twn/Range/Section:	15S / 15E / 17			
Parcel Size:	300.25 Acres (13,078,890 SqFt)			
Legal Lot/Block:	18 / 4			
Census Tract/Block:	950300 / 5062			
Levy Code:	21			
Levy Rate:	12.5019			
Levy Year:	2020			
Market Land Value:	\$42,690.00			
Market Impr Value:	\$25,680.00			
Market Total Value:	\$68,370.00 (2021)			
Assd Total Value:	\$56,760.00 (2021)			
Land				
Land Use: 551 - Farm	Land Use: 551 - Farm Zone EFU Improved		Zoning:	EFU3 - Exclusive Farm Use
# Dwellings:		Scho	ol District:	Powell Butte School District
Primary School: Powell Butto	e Community Charter School	Midd	le School:	Powell Butte Community Charter School
High School: Crook Cour	nty High School			

riigii ociiooi.	Crook County High School			
Improvement				
Year Built:		Bedrooms:	Bathrooms, Total:	
Bathrooms, Full:		Bathrooms, Half:	Finished Area:	
Floor 1:		Floor 2:	Garage:	
Carport:		Attic:	Basement:	
Condition:				

Transfer Information			
Sale Date: 08/14/2003	Sale Price: \$977,857.00	Doc Num: 182839	Doc Type: WARRANTY DEED

Sentry Dynamics, Inc. and its customers make no representations, warranties or conditions, express or implied, as to the accuracy or completeness of information contained in this report.



# **Crook County Property Summary Report**

Report Date: 1/4/2022 1:23:58 PM

#### **Disclaimer**

The information and maps presented in this report are provided for your convenience. Every reasonable effort has been made to assure the accuracy of the data and associated maps. Crook County makes no warranty, representation or guarantee as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. Crook County explicitly disclaims any representations and warranties, including, without limitation, the implied warranties of merchantability and fitness for a particular purpose. Crook County shall assume no liability for any errors, omissions, or inaccuracies in the information provided regardless of how caused. Crook County assumes no liability for any decisions made or actions taken or not taken by the user of this information or data furnished hereunder.

### **Account Summary**

**Account Information** 

Mailing Name: 818 POWELL BUTTE LLC
Map and Taxlot: 15151700-00100-1193

Account: 1193
Tax Status: Taxable

Situs Address: 8911 SW WILEY RD, POWELL BUTTE OR

97753

**Property Taxes** 

Current Tax Year: 2021 Tax Code Area: 0021

**Assessment** 

Subdivision: PART PLAT YEAR & # NO PARCEL #

Lot: 18 Block: 4

Assessor Acres: 300.25 Property Class: 551 **Ownership** 

**Mailing Address:** 

818 POWELL BUTTE LLC

21059 AVERY LN

BEND, OR 97702-3043

**Valuation** 

Real Market Values as of Jan. 1, 2022

 Land
 \$42,690

 Structures
 \$25,680

 Total
 \$68,370

**Current Assessed Values:** 

Maximum Assessed\$128,769Assessed Value\$56,760Veterans Exemption\$0.00

# Warnings, Notations, and Special Assessments

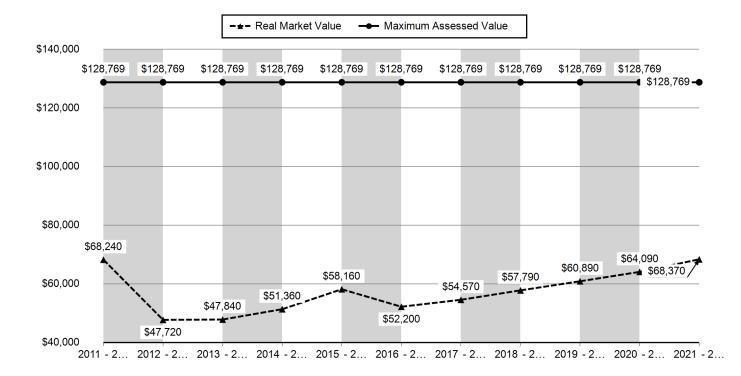
#### **Assessor's Office Notations**

Code Description Remarks

501 Potential Additional Tax Liability

Valuation History All values are	e as of January 1 of e	ach year. Tax year	is July 1st through J	lune 30th of each ye	ar.
	2011 - 2012	2012 - 2013	2013 - 2014	2014 - 2015	2015 - 2016
Real Market Value - Land	\$43,040	\$33,300	\$33,600	\$34,780	\$36,670
Real Market Value - Structures	\$25,200	\$14,420	\$14,240	\$16,580	\$21,490
Total Real Market Value	\$68,240	\$47,720	\$47,840	\$51,360	\$58,160
Maximum Assessed Value	\$128,769	\$128,769	\$128,769	\$128,769	\$128,769
Total Assessed Value	\$49,710	\$39,550	\$40,230	\$43,200	\$48,740
Exemption Value	\$0	\$0	\$0	\$0	\$0

2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021	2021 - 2022
\$38,550	\$40,500	\$42,060	\$42,690	\$42,690	\$42,690
\$13,650	\$14,070	\$15,730	\$18,200	\$21,400	\$25,680
\$52,200	\$54,570	\$57,790	\$60,890	\$64,090	\$68,370
\$128,769	\$128,769	\$128,769	\$128,769	\$128,769	\$128,769
\$41,530	\$42,570	\$44,860	\$48,030	\$51,720	\$56,760
\$0	\$0	\$0	\$0	\$0	\$0



Tax P	ayment F	listory							
Year	Date Due	Transaction Type	Transaction Date	As Of Date	Amount Received	Tax Due	Discount Amount	Interest Charged	Refund Interest
2021	11/15/2021	PAYMENT	11/04/2021	11/04/2021	\$687.28	(\$708.54)	\$21.26	\$0.00	\$0.00
2021	11/15/2021	IMPOSED	10/12/2021	11/15/2021	\$0.00	\$708.54	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2020	11/15/2020	PAYMENT	11/03/2020	11/03/2020	\$627.19	(\$646.59)	\$19.40	\$0.00	\$0.00
2020	11/15/2020	IMPOSED	10/16/2020	11/15/2020	\$0.00	\$646.59	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2019	11/15/2019	IMPOSED	11/15/2019	11/15/2019	\$0.00	\$596.59	\$0.00	\$0.00	\$0.00
2019	11/15/2019	PAYMENT	11/04/2019	11/15/2019	\$578.69	(\$596.59)	\$17.90	\$0.00	\$0.00
					Total:	\$0.00			
2018	11/15/2018	IMPOSED	11/15/2018	11/15/2018	\$0.00	\$559.45	\$0.00	\$0.00	\$0.00
2018	11/15/2018	PAYMENT	11/06/2018	11/15/2018	\$542.67	(\$559.45)	\$16.78	\$0.00	\$0.00
					Total:	\$0.00			
2017	11/15/2017	IMPOSED	11/15/2017	11/15/2017	\$0.00	\$538.54	\$0.00	\$0.00	\$0.00
2017	11/15/2017	PAYMENT	11/06/2017	11/15/2017	\$522.38	(\$538.54)	\$16.16	\$0.00	\$0.00
					Total:	\$0.00			
2016	11/15/2016	IMPOSED	11/15/2016	11/15/2016	\$0.00	\$516.30	\$0.00	\$0.00	\$0.00
2016	11/15/2016	PAYMENT	11/08/2016	11/15/2016	\$500.81	(\$516.30)	\$15.49	\$0.00	\$0.00
					Total:	\$0.00			
2015	11/15/2015	PAYMENT	11/17/2015	11/15/2015	\$579.01	(\$596.92)	\$17.91	\$0.00	\$0.00
2015	11/15/2015	IMPOSED	11/15/2015	11/15/2015	\$0.00	\$596.92	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2014	11/15/2014	IMPOSED	11/15/2014	11/15/2014	\$0.00	\$521.86	\$0.00	\$0.00	\$0.00
2014	11/15/2014	PAYMENT	11/05/2014	11/15/2014	\$506.20	(\$521.86)	\$15.66	\$0.00	\$0.00
					Total:	\$0.00			
2013	11/15/2013	IMPOSED	11/15/2013	11/15/2013	\$0.00	\$499.86	\$0.00	\$0.00	\$0.00
2013	11/15/2013	PAYMENT	11/06/2013	11/15/2013	\$484.86	(\$499.86)	\$15.00	\$0.00	\$0.00
•					Total:	\$0.00			-

Year	Date Due	Transaction Type	Transaction Date	As Of Date	Amount Received	Tax Due	Discount Amount	Interest Charged	Refund Interest
2012	11/15/2012	PAYMENT	11/16/2012	11/15/2012	\$477.10	(\$491.86)	\$14.76	\$0.00	\$0.00
2012	11/15/2012	IMPOSED	11/15/2012	11/15/2012	\$0.00	\$491.86	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2011	11/15/2011	IMPOSED	11/15/2011	11/15/2011	\$0.00	\$623.55	\$0.00	\$0.00	\$0.00
2011	11/15/2011	PAYMENT	11/08/2011	11/15/2011	\$604.84	(\$623.55)	\$18.71	\$0.00	\$0.00
					Total:	\$0.00			
2010	11/15/2010	PAYMENT	02/03/2011	11/15/2010	\$1,169.99	(\$1,206.18)	\$36.19	\$0.00	\$0.00
2010	11/15/2010	PAYMENT	02/03/2011	11/15/2010	(\$1,206.18)	\$1,206.18	\$0.00	\$0.00	\$0.00
2010	11/15/2010	PAYMENT	02/03/2011	11/15/2010	(\$179.49)	\$222.35	(\$42.86)	\$0.00	\$0.00
2010	11/15/2010	IMPOSED	11/15/2010	11/15/2010	\$0.00	\$1,206.18	\$0.00	\$0.00	\$0.00
2010	11/15/2010	PAYMENT	11/02/2010	11/15/2010	\$1,385.67	(\$1,428.53)	\$42.86	\$0.00	\$0.00
					Total:	\$0.00			
2009	11/15/2009	IMPOSED	11/15/2009	11/15/2009	\$0.00	\$1,333.29	\$0.00	\$0.00	\$0.00
2009	11/15/2009	PAYMENT	11/09/2009	11/15/2009	\$1,293.29	(\$1,333.29)	\$40.00	\$0.00	\$0.00
					Total:	\$0.00			
2008	11/15/2008	PAYMENT	04/06/2009	11/15/2008	\$1,267.03	(\$1,228.80)	\$0.00	\$38.23	\$0.00
2008	11/15/2008	IMPOSED	11/15/2008	11/15/2008	\$0.00	\$1,228.80	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2007	11/15/2007	PAYMENT	11/28/2007	11/15/2007	\$2,011.84	(\$2,002.94)	\$0.00	\$8.90	\$0.00
2007	11/15/2007	IMPOSED	11/15/2007	11/15/2007	\$0.00	\$2,002.94	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2006	11/15/2006	PAYMENT	03/06/2007	11/15/2006	\$1,996.09	(\$1,952.70)	\$0.00	\$43.39	\$0.00
2006	11/15/2006	IMPOSED	11/15/2006	11/15/2006	\$0.00	\$1,952.70	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2005	11/15/2005	IMPOSED	11/15/2005	11/15/2005	\$0.00	\$1,641.77	\$0.00	\$0.00	\$0.00
2005	11/15/2005	PAYMENT	11/03/2005	11/15/2005	\$1,592.52	(\$1,641.77)	\$49.25	\$0.00	\$0.00
					Total:	\$0.00			
2004	11/15/2004	PAYMENT	11/17/2004	11/15/2004	\$6,989.54	(\$7,205.71)	\$216.17	\$0.00	\$0.00
2004	11/15/2004	IMPOSED	11/15/2004	11/15/2004	\$0.00	\$7,205.71	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2003	11/15/2003	IMPOSED	11/15/2003	11/15/2003	\$0.00	\$1,840.84	\$0.00	\$0.00	\$0.00
2003	11/15/2003	PAYMENT	11/04/2003	11/15/2003	\$1,785.61	(\$1,840.84)	\$55.23	\$0.00	\$0.00
					Total:	\$0.00			
2002	11/15/2002	IMPOSED	11/15/2002	11/15/2002	\$0.00	\$1,806.66	\$0.00	\$0.00	\$0.00
2002	11/15/2002	PAYMENT	11/01/2002	11/15/2002	\$1,752.46	(\$1,806.66)	\$54.20	\$0.00	\$0.00
					Total:	\$0.00	•	<u> </u>	
2001	11/15/2001	IMPOSED	11/15/2001	11/15/2001	\$0.00	\$2,233.31	\$0.00	\$0.00	\$0.00
2001	11/15/2001	PAYMENT	10/30/2001	11/15/2001	\$2,166.31	(\$2,233.31)	\$67.00	\$0.00	\$0.00
					Total:	\$0.00	<del>+</del>	+ 3.00	+0.00
2000	11/15/2000	PAYMENT	07/01/2001	11/15/2000	\$2,340.09	(\$2,193.84)	\$0.00	\$146.25	\$0.00
2000	11/15/2000	IMPOSED	11/15/2000	11/15/2000	\$0.00	\$2,193.84	\$0.00	\$0.00	\$0.00
	, . 3, 2000	3025	,	,	Total:	\$0.00	Ψ0.00	Ψ0.00	Ψ0.00

Sales History

Sale Date	Seller	Buyer	Sale Amount	Sale Type	Recording
06/20/1996	HODDER, RICHARD G & SHIRLEY L	•	\$0	WARRANTY DEED	1998-128645
10/20/1992	UNDETERMINED GRANTOR NAME		\$392,000	WARRANTY DEED	1994-106165
08/14/2003	GRAMZOW, EUGENE W TRUSTEE		\$977,857	WARRANTY DEED	2005-182839

Structures					
Stat Class/Description	Improvement Description	Code Area	Year Built	Eff Year Built	Total Sq Ft
FARM BLDG - : MACHINE SHED	MACHINE SHED	0021	0	1975	1800

Accessories	
Improvement Type	Sq Ft
Machine Shed	1800

Land Characteristics					
Land Description	Acres	Land Classification			
Farm Use Zoned	229.01	0272			
Market	1.00	02SHS			
Farm Use Zoned	69.63	024			
OSD	0.00	SA OSD			

# **Related Accounts**

Related accounts apply to a property that may be on one map and tax lot but due to billing have more than one account. This occurs when a property is in multiple tax code areas. In other cases there may be business personal property or a manufactured home on this property that is not in the same ownership as the land.

No Related Accounts found.

Ownership						
Name Type	Name	Ownership Type	Percentage			
OWNER	818 POWELL BUTTE LLC,		100.00%			
Taxpayer	818 POWELL BUTTE LLC,		100.00%			
			200.00%			

### **JULY 1, 2021 TO JUNE 30, 2022** CROOK COUNTY TAX COLLECTOR 200 NE 2nd St Prineville, OR 97754

THIS VEAD

REAL PROPERTY TAX STATEMENT

271.63

25 21

ACCOUNT NO: 1193

PROPERTY DESCRIPTION

VALUES.

**CODE:** 0021 2021 - 2022 CURRENT TAX BY DISTRICT MAP: 151517-00-00100 **ACRES:** 300.25 HIGH DESERT ESD **SITUS:** 8911 SW WILEY RD POWELL BUTTE CROOK COUNTY SCHOOL DIST CENTRAL OR COMM COLLEGE

818 POWELL BUTTE LLC 21059 AVERY LN BEND OR 97702-3043

	35.21
EDUCATION TOTAL:	312.31
CROOK COUNTY GENERAL FUND	219.67
AG EXTENSION SERVICE	6.85
CROOK CO HISTORICAL FUND	3.41
CROOK CO FIRE & RESCUE	90.25
CEMETERY DISTRICT	5.64
GENERAL GOVT TOTAL:	325.82
CC JAIL BOND	12.37
CC JAIL BOND CC SCHOOL BOND	12.37 52.16
CC SCHOOL BOND	52.16

VALUES:	LASI IEAR	I HIS I EAR
REAL MARKET (RMV)		
LAND	42,690	42,690
STRUCTURES	21,400	25,680
TOTAL RMV	64,090	68,370
TOTAL SAV	64,090	68,370
TOTAL ASSESSED VALUE	51,720	56,760
NET TAXABLE:	51,720	56,760
TOTAL PROPERTY TAX	646.59	708.54

LAST VEAD

2021 - 2022 TAX (Before Discount) 708.54

\*\*POTENTIAL ADDITIONAL TAX LIABILITY\*\*

Please Make Payment To: CROOK COUNTY TAX COLLECTOR (Refer to back of statement and insert enclosed for more information)

Crook County Website - www.co.crook.or.us

Tax Collector (541) 447-6554 or Assessor (541) 447-4133

TOTAL DUE (After Discount )	687.28
-----------------------------	--------

(See back of statement for instructions)	TAX	X PAYMENT OPTIONS		
PAYMENT OPTIONS	<b>Date Due</b>	<b>Discount Allowed</b>		<u>Amount</u>
FULL PAYMENT	Nov 15, 2021	21.26	3% Discount	687.28
2/3 PAYMENT	Nov 15, 2021	9.45	2% Discount	462.91
1/3 PAYMENT	Nov 15, 2021		No Discount	236.18

↑ Tear Here  2021 - 2022 PROPERTY TAXES	PLEASE RETURN THIS PORTION WITH YOUR PAYMENT  CROOK COUNTY, OREGON				Tear Here
FULL PAYMENT	(Includes 3% Discount)	DUE	Nov 15, 2021		687.28
2/3 PAYMENT	(Includes 2% Discount)	DUE	Nov 15, 2021	•••••	462.91
1/3 PAYMENT	(No Discount Offered)	DUE	Nov 15, 2021	•••••	236.18
(DISCOUNT IS LOST & INTEREST APPLIES AFTER DUE DATE)					

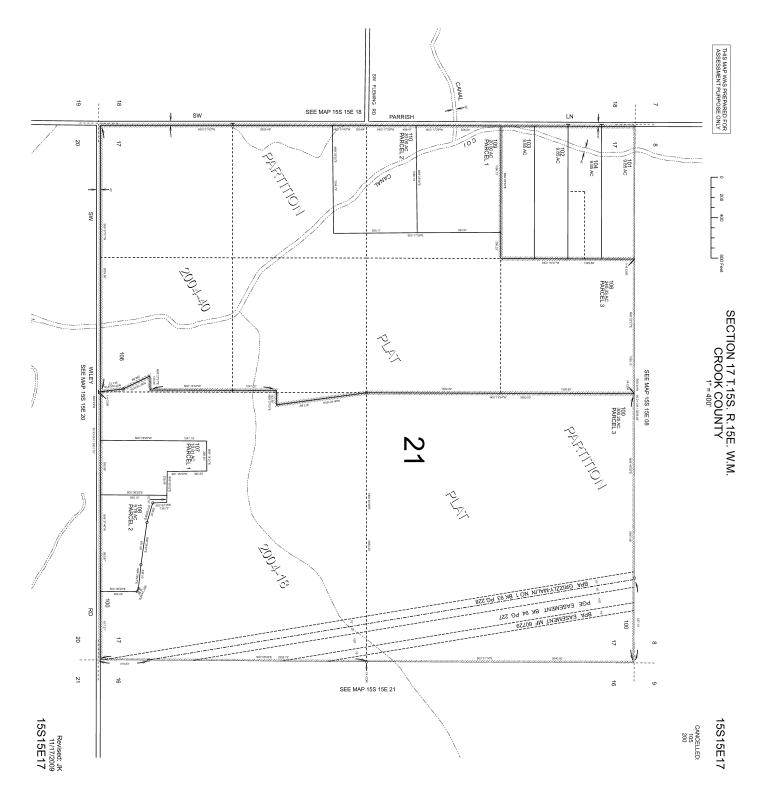
Mailing address change on back

MAKE PAYMENT TO:

**Enter Payment Amount** 

818 POWELL BUTTE LLC 21059 AVERY LN BEND OR 97702-3043

CROOK COUNTY TAX COLLECTOR 200 NE 2nd St Prineville, OR 97754



**Document:** 

**Warranty Deed** 

**Grantor:** 

**Eugene W. Gramzow Revocable Trust** 

**Grantee:** 

818 Powell Butte, LLC

# After recording, please return to: 818 Powell Butte, LLC, at 321 Goodpasture Island Road, Eugene, OR 97401

#### WARRANTY DEED

This instrument is made on July 1, 2003, between Eugene W. Gramzow, Trustee of the Eugene W. Gramzow Revocable Trust, dated February 3, 1998, as Grantor, and 818 Powell Butte, LLC, an Oregon limited liability company, as Grantee. Grantor hereby conveys and warrants to Grantee the following described real property situated in Crook County, Oregon, free of encumbrances except as set forth herein, to-wit:

See Exhibit "A"

This conveyance is subject to and excepts rights of the public in streets, roads and highways, covenants, conditions, restrictions, reservations and easements of record.

The true consideration for this conveyance is \$977,857.50.

THIS INSTRUMENT WILL NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES AND TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST FARMING OR FOREST PRACTICES AS DEFINED IN ORS 30.930.

Dated July 1, 2003.

Eugene W. Gramzow Revocable Trust, dated February 3, 1998

By Eugene W. Trustee Gramzow:

State of Oregon

County of Lane

) ss:

OFFICIAL SEAL AMY S LA GRANDER NOTARY PUBLIC - OREGON COMMISSION NO. 354390 MY COMMISSION EXPIRES MAR. 2, 2006

This instrument was acknowledged before me on July 1, 2003, by Eugene Wg. Gramzow, who is Trustee of the Eugene W. Gramzow Revocable Trust, dated February 3, 1998.

Notary Public for Oregon

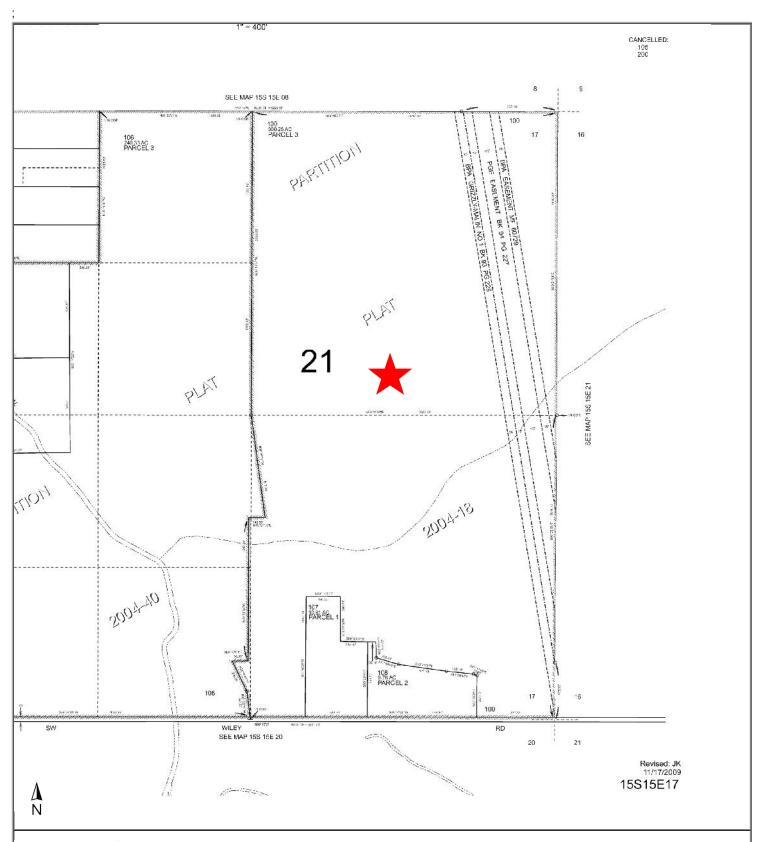
My Commission expires:

182839 (2pg)

Township 15 South, Range 15 East of the Willamette Meridian: Section 17, the East ½ of the Northwest ¼; the Southwest ¼ of the Northwest ¼; the Southwest ¼ and the East ½, all located in Crook County, Oregon.

STATE OF OREGON SS182839
COUNTY OF CROOK SS182839
CERTIFY THAT THE WITHIN INSTRUMENT WAS
RECEIVED FOR RECORD ON THE 14±b4± DAY OF
AUGUST 20 2003 AT 12±10 D M.
AND RECORDED IN Deeds
RECORDS OF SAID COUNTY MF NO. 182839
DEANNA E, BERMAN, CROOK COUNTY CLERK
BY OF A LAB STATE OF THE COUNTY OF THE COUNTY CLERK
BY OF A LAB STATE OF THE COUNTY OF THE COUNTY CLERK

31°

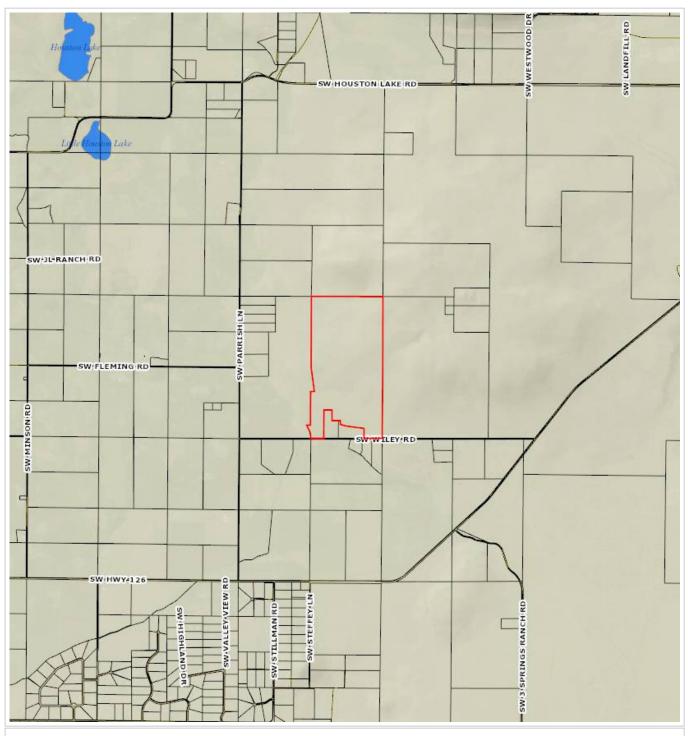


ParcelID: 1193

Tax Account #: 1515170000100

8911 SW Wiley Rd, Powell Butte OR 97753

Western Title & Escrow This map/plat is being furnished as an aid in locating the herein described land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.





Parcel ID: 1193

Sentry Dynamics, Inc. and its customers make no representations, warranties or conditions, express or implied, as to the accuracy or completeness of information contained in this report.



Parcel Information	Tax Information	<u>n</u>		
Parcel #:	16275	Tax Year	Annı	ual Tax
Tax Account:	1515170000106	2021	\$4	420.17
Site Address:	4272 SW Parrish Ln	2020	\$4	408.82
	Powell Butte OR 97753	2019	\$:	398.10
Owner:	818 Powell Butte LLC			
	21059 Avery Ln	Legal		
	Bend OR 97702	Lot: 40, Block: 4, To	ownship: 1	15S, Range: 15E, Section: 17
Twn/Range/Section:	15S / 15E / 17			
Parcel Size:	240.33 Acres (10,468,775 SqFt)			
Legal Lot/Block:	40 / 4			
Census Tract/Block:	950300 / 5062			
Levy Code:	21			
Levy Rate:	12.5019			
Levy Year:	2020			
Market Land Value:	\$48,110.00			
Market Impr Value:	\$0.00			
Market Total Value:	\$48,110.00 (2021)			
Assd Total Value:	\$33,660.00 (2021)			
<u>Land</u>				
Land Use: 550 - Farm	Zone EFU Unimp		Zoning:	EFU3 - Exclusive Farm Use
# Dwellings:		School	District:	Powell Butte School District
Primary School: Powell Butte Community Charter Scho		Middle		Powell Butte Community Charter School
High School: Crook Cour	nty High School			

<del></del>			
Land Use:	550 - Farm Zone EFU Unimp	Zoning:	EFU3 - Exclusive Farm Use
# Dwellings:		School District:	Powell Butte School District
Primary School:	Powell Butte Community Charter School	Middle School:	Powell Butte Community Charter School
High School:	Crook County High School		

<u>Improvement</u>		
Year Built:	Bedrooms:	Bathrooms, Total:
Bathrooms, Full:	Bathrooms, Half:	Finished Area:
Floor 1:	Floor 2:	Garage:
Carport:	Attic:	Basement:

Condition:

Transfer Information			
Sale Date: 08/14/2003	Sale Price: \$977,857.00	Doc Num: 182839	Doc Type: WARRANTY

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# **Crook County Property Summary Report**

Report Date: 1/4/2022 1:45:11 PM

#### **Disclaimer**

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### **Account Summary**

**Account Information** 

Mailing Name: 818 POWELL BUTTE LLC
Map and Taxlot: 15151700-00106-16275

Account: 16275
Tax Status: Taxable

Situs Address: 4272 SW PARRISH LN, POWELL BUTTE

OR 97753

**Property Taxes** 

Current Tax Year: 2021 Tax Code Area: 0021

**Assessment** 

Subdivision: PART PLAT YEAR & # NO PARCEL #

**Lot**: 40 **Block**: 4

Assessor Acres: 240.33 Property Class: 550 **Ownership** 

**Mailing Address:** 

818 POWELL BUTTE LLC

21059 AVERY LN BEND, OR 97702

**Valuation** 

Real Market Values as of Jan. 1, 2022

**Land** \$48,110

**Structures** 

**Total** \$48,110

Current Assessed Values: Maximum Assessed \$0

Assessed Value \$33,660

Veterans Exemption \$0.00

# Warnings, Notations, and Special Assessments

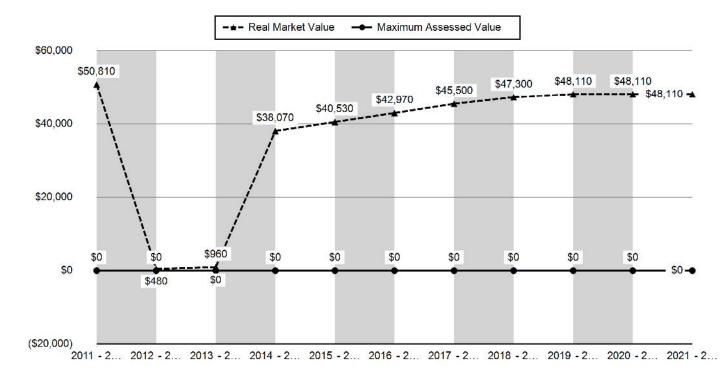
#### **Assessor's Office Notations**

Code Description Remarks

501 Potential Additional Tax Liability

Valuation History All values are as of January 1 of each year. Tax year is July 1st through June 30th of each year.							
	2011 - 2012	2012 - 2013	2013 - 2014	2014 - 2015	2015 - 2016		
Real Market Value - Land	\$50,810	\$480	\$960	\$38,070	\$40,530		
Real Market Value - Structures	\$0	\$0	\$0	\$0	\$0		
Total Real Market Value	\$50,810	\$480	\$960	\$38,070	\$40,530		
Maximum Assessed Value	\$0	\$0	\$0	\$0	\$0		
Total Assessed Value	\$480	\$480	\$960	\$27,890	\$28,700		
Exemption Value	\$0	\$0	\$0	\$0	\$0		

2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021	2021 - 2022
\$42,970	\$45,500	\$47,300	\$48,110	\$48,110	\$48,110
\$0	\$0	\$0	\$0	\$0	\$0
\$42,970	\$45,500	\$47,300	\$48,110	\$48,110	\$48,110
\$0	\$0	\$0	\$0	\$0	\$0
\$29,510	\$30,340	\$31,150	\$32,050	\$32,700	\$33,660
\$0	\$0	\$0	\$0	\$0	\$0



Tax P	ayment H	listory							
Year	Date Due	Transaction Type	Transaction Date	As Of Date	Amount Received	Tax Due	Discount Amount	Interest Charged	Refund Interest
2021	11/15/2021	PAYMENT	11/04/2021	11/04/2021	\$407.56	(\$420.17)	\$12.61	\$0.00	\$0.00
2021	11/15/2021	IMPOSED	10/12/2021	11/15/2021	\$0.00	\$420.17	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2020	11/15/2020	PAYMENT	11/03/2020	11/03/2020	\$396.56	(\$408.82)	\$12.26	\$0.00	\$0.00
2020	11/15/2020	IMPOSED	10/16/2020	11/15/2020	\$0.00	\$408.82	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2019	11/15/2019	IMPOSED	11/15/2019	11/15/2019	\$0.00	\$398.10	\$0.00	\$0.00	\$0.00
2019	11/15/2019	PAYMENT	11/04/2019	11/15/2019	\$386.16	(\$398.10)	\$11.94	\$0.00	\$0.00
					Total:	\$0.00			
2018	11/15/2018	IMPOSED	11/15/2018	11/15/2018	\$0.00	\$388.47	\$0.00	\$0.00	\$0.00
2018	11/15/2018	PAYMENT	11/06/2018	11/15/2018	\$376.82	(\$388.47)	\$11.65	\$0.00	\$0.00
					Total:	\$0.00			
2017	11/15/2017	IMPOSED	11/15/2017	11/15/2017	\$0.00	\$383.83	\$0.00	\$0.00	\$0.00
2017	11/15/2017	PAYMENT	11/06/2017	11/15/2017	\$372.32	(\$383.83)	\$11.51	\$0.00	\$0.00
					Total:	\$0.00			
2016	11/15/2016	IMPOSED	11/15/2016	11/15/2016	\$0.00	\$366.87	\$0.00	\$0.00	\$0.00
2016	11/15/2016	PAYMENT	11/08/2016	11/15/2016	\$355.86	(\$366.87)	\$11.01	\$0.00	\$0.00
					Total:	\$0.00			
2015	11/15/2015	PAYMENT	11/17/2015	11/15/2015	\$340.95	(\$351.49)	\$10.54	\$0.00	\$0.00
2015	11/15/2015	IMPOSED	11/15/2015	11/15/2015	\$0.00	\$351.49	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2014	11/15/2014	IMPOSED	11/15/2014	11/15/2014	\$0.00	\$336.91	\$0.00	\$0.00	\$0.00
2014	11/15/2014	PAYMENT	11/05/2014	11/15/2014	\$326.80	(\$336.91)	\$10.11	\$0.00	\$0.00
					Total:	\$0.00			
2013	11/15/2013	IMPOSED	11/15/2013	11/15/2013	\$0.00	\$11.45	\$0.00	\$0.00	\$0.00
2013	11/15/2013	PAYMENT	11/06/2013	11/15/2013	\$11.11	(\$11.45)	\$0.34	\$0.00	\$0.00
					Total:	\$0.00			

Year	Date Due	Transaction Type	Transaction Date	As Of Date	Amount Received	Tax Due	Discount Amount	Interest Charged	Refund Interest
2012	11/15/2012	PAYMENT	11/16/2012	11/15/2012	\$5.56	(\$5.73)	\$0.17	\$0.00	\$0.00
2012	11/15/2012	IMPOSED	11/15/2012	11/15/2012	\$0.00	\$5.73	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2011	11/15/2011	IMPOSED	11/15/2011	11/15/2011	\$0.00	\$5.78	\$0.00	\$0.00	\$0.00
2011	11/15/2011	PAYMENT	11/08/2011	11/15/2011	\$5.61	(\$5.78)	\$0.17	\$0.00	\$0.00
					Total:	\$0.00			
2010	11/15/2010	IMPOSED	11/15/2010	11/15/2010	\$0.00	\$5.75	\$0.00	\$0.00	\$0.00
2010	11/15/2010	PAYMENT	11/02/2010	11/15/2010	\$5.58	(\$5.75)	\$0.17	\$0.00	\$0.00
					Total:	\$0.00			
2009	11/15/2009	IMPOSED	11/15/2009	11/15/2009	\$0.00	\$53.56	\$0.00	\$0.00	\$0.00
2009	11/15/2009	PAYMENT	11/09/2009	11/15/2009	\$51.95	(\$53.56)	\$1.61	\$0.00	\$0.00
					Total:	\$0.00			
2008	11/15/2008	PAYMENT	03/24/2009	11/15/2008	(\$184.66)	\$192.25	(\$7.59)	\$0.00	\$0.00
2008	11/15/2008	PAYMENT	11/17/2008	11/15/2008	\$245.52	(\$253.11)	\$7.59	\$0.00	\$0.00
2008	11/15/2008	IMPOSED	11/15/2008	11/15/2008	\$0.00	\$60.86	\$0.00	\$0.00	\$0.00
-					Total:	\$0.00			
2007	11/15/2007	PAYMENT	11/28/2007	11/15/2007	\$221.11	(\$220.13)	\$0.00	\$0.98	\$0.00
2007	11/15/2007	IMPOSED	11/15/2007	11/15/2007	\$0.00	\$220.13	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2006	11/15/2006	PAYMENT	03/06/2007	11/15/2006	\$219.50	(\$214.73)	\$0.00	\$4.77	\$0.00
2006	11/15/2006	IMPOSED	11/15/2006	11/15/2006	\$0.00	\$214.73	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2005	11/15/2005	IMPOSED	11/15/2005	11/15/2005	\$0.00	\$7,338.45	\$0.00	\$0.00	\$0.00
2005	11/15/2005	PAYMENT	10/13/2005	11/15/2005	\$7,118.30	(\$7,338.45)	\$220.15	\$0.00	\$0.00
-					Total:	\$0.00			
2004	11/15/2004	PAYMENT	11/17/2004	11/15/2004	\$636.23	(\$655.91)	\$19.68	\$0.00	\$0.00
2004	11/15/2004	IMPOSED	11/15/2004	11/15/2004	\$0.00	\$655.91	\$0.00	\$0.00	\$0.00
-					Total:	\$0.00			
2003	11/15/2003	IMPOSED	11/15/2003	11/15/2003	\$0.00	\$670.26	\$0.00	\$0.00	\$0.00
2003	11/15/2003	PAYMENT	11/04/2003	11/15/2003	\$650.15	(\$670.26)	\$20.11	\$0.00	\$0.00
					Total:	\$0.00			
2002	11/15/2002	IMPOSED	11/15/2002	11/15/2002	\$0.00	\$657.81	\$0.00	\$0.00	\$0.00
2002	11/15/2002	PAYMENT	11/01/2002	11/15/2002	\$638.08	(\$657.81)	\$19.73	\$0.00	\$0.00
					Total:	\$0.00			

Sales H	listory				
			Sale		
Sale Date	Seller	Buyer	Amount	Sale Type	Recording
08/14/2003	GRAMZOW, EUGENE W TRUSTEE		\$977,857	WARRANTY DEED	2005-182839

# Structures

Land Characteristics				
Land Description	Acres	Land Classification		
Farm Use Zoned	81.25	024		
Farm Use Zoned	74.34	0272		
Farm Use Zoned	2.99	026		
Farm Use Zoned	81.25	261CW		

# **Related Accounts**

Related accounts apply to a property that may be on one map and tax lot but due to billing have more than one account. This occurs when a property is in multiple tax code areas. In other cases there may be business personal property or a manufactured home on this property that is not in the same ownership as the land.

No Related Accounts found.

Ownership					
Name Type	Name	Ownership Type	Percentage		
OWNER	818 POWELL BUTTE LLC,		100.00%		
Taxpayer	818 POWELL BUTTE LLC,		100.00%		
			200.00%		

### JULY 1, 2021 TO JUNE 30, 2022 CROOK COUNTY TAX COLLECTOR 200 NE 2nd St

200 NE 2nd St Prineville, OR 97754

THIS YEAR

PROPERTY DESCRIPTION

CODE: 0021

MAP:

VALUES:

151517-00-00106 ACRES: 240.33

SITUS: 4272 SW PARRISH LN POWELL BUTTE

818 POWELL BUTTE LLC 21059 AVERY LN BEND OR 97702

2021 - 2022 CUR	RENT TAX BY	DISTRICT
HIGH DESERT ESD		3.24
anaarr aarmimir aarraar	D T C T	161 06

REAL PROPERTY TAX STATEMENT

ACCOUNT NO: 16275

CROOK COUNTY SCHOOL DIST 161.08
CENTRAL OR COMM COLLEGE 20.88
EDUCATION TOTAL: 185.20

CROOK COUNTY GENERAL FUND 130.27
AG EXTENSION SERVICE 4.06
CROOK CO HISTORICAL FUND 2.02

 CROOK CO FIRE & RESCUE
 53.52

 CEMETERY DISTRICT
 3.35

 GENERAL GOVT TOTAL:
 193.22

CC JAIL BOND 7.33
CC SCHOOL BOND 30.93
COCC BOND & INTEREST 3.49
BONDS - OTHER TOTAL: 41.75

2021 - 2022 TAX (Before Discount)

420.17

REAL MARKET (RMV) LAND STRUCTURES	48,110	48,110
TOTAL RMV	48,110	48,110
TOTAL SAV	48,110	48,110
TOTAL ASSESSED VALUE	32,700	33,660
NET TAXABLE:	32,700	33,660
TOTAL PROPERTY TAX	408.82	420.17

LAST YEAR

\*\*POTENTIAL ADDITIONAL TAX LIABILITY\*\*

Please Make Payment To: CROOK COUNTY TAX COLLECTOR (Refer to back of statement and insert enclosed for more information)

Crook County Website - www.co.crook.or.us

Tax Collector (541) 447-6554 or Assessor (541) 447-4133

TOTAL DUE (After Discount ) 407.56

(See back of statement for instructions)	ck of statement for instructions) TAX PAYMENT OPTIONS			
PAYMENT OPTIONS FULL PAYMENT 2/3 PAYMENT 1/3 PAYMENT	<u>Date Due</u> Nov 15, 2021 Nov 15, 2021 Nov 15, 2021	Discount Allowed 12.61 5.60	3% Discount 2% Discount No Discount	Amount 407.56 274.51 140.06

↑ Tear Here	PLEASE RETURN THIS PORTION W		Tear Here			
2021 - 2022 PROPERTY TAXES	CROOK COUNTY, O	ACCOUN	T NO. 16275			
FULL PAYMENT	(Includes 3% Discount)	DUE	Nov 15, 2021		407.56	
2/3 PAYMENT	(Includes 2% Discount)	DUE	Nov 15, 2021		274.51	
1/3 PAYMENT	(No Discount Offered)	DUE	Nov 15, 2021		140.06	

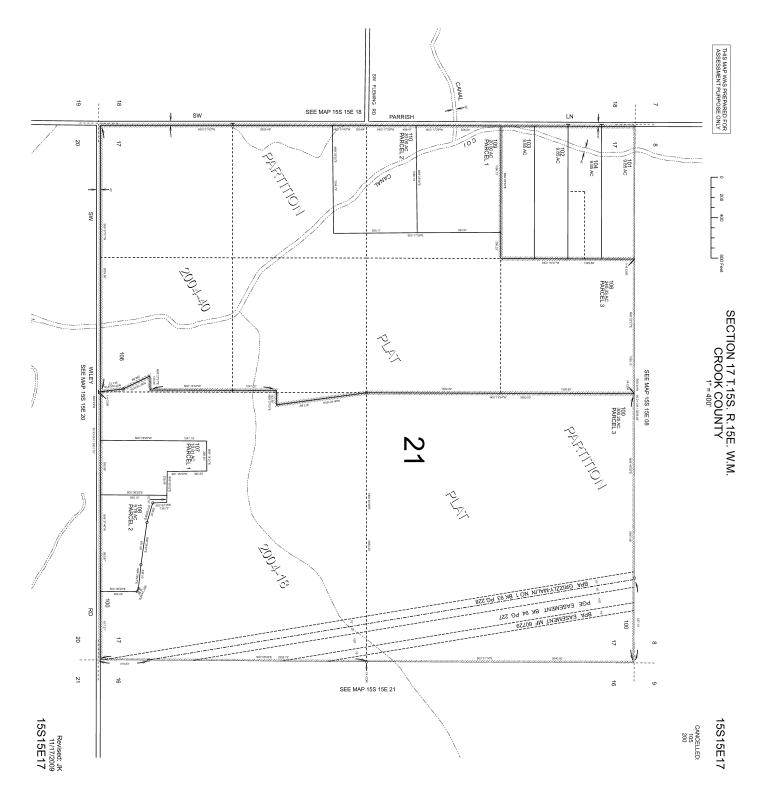
(DISCOUNT IS LOST & INTEREST APPLIES AFTER DUE DATE)

Mailing address change on back

MAKE PAYMENT TO:

Enter Payment Amount

818 POWELL BUTTE LLC 21059 AVERY LN BEND OR 97702 CROOK COUNTY TAX COLLECTOR 200 NE 2nd St Prineville, OR 97754



**Document:** 

**Warranty Deed** 

**Grantor:** 

**Eugene W. Gramzow Revocable Trust** 

**Grantee:** 

818 Powell Butte, LLC

# After recording, please return to: 818 Powell Butte, LLC, at 321 Goodpasture Island Road, Eugene, OR 97401

#### WARRANTY DEED

This instrument is made on July 1, 2003, between Eugene W. Gramzow, Trustee of the Eugene W. Gramzow Revocable Trust, dated February 3, 1998, as Grantor, and 818 Powell Butte, LLC, an Oregon limited liability company, as Grantee. Grantor hereby conveys and warrants to Grantee the following described real property situated in Crook County, Oregon, free of encumbrances except as set forth herein, to-wit:

See Exhibit "A"

This conveyance is subject to and excepts rights of the public in streets, roads and highways, covenants, conditions, restrictions, reservations and easements of record.

The true consideration for this conveyance is \$977,857.50.

THIS INSTRUMENT WILL NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES AND TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST FARMING OR FOREST PRACTICES AS DEFINED IN ORS 30.930.

Dated July 1, 2003.

Eugene W. Gramzow Revocable Trust, dated February 3, 1998

By Eugene W. Trustee Gramzow:

State of Oregon

County of Lane

) ss:

OFFICIAL SEAL AMY S LA GRANDER NOTARY PUBLIC - OREGON COMMISSION NO. 354390 MY COMMISSION EXPIRES MAR. 2, 2006

This instrument was acknowledged before me on July 1, 2003, by Eugene Wg. Gramzow, who is Trustee of the Eugene W. Gramzow Revocable Trust, dated February 3, 1998.

Notary Public for Oregon

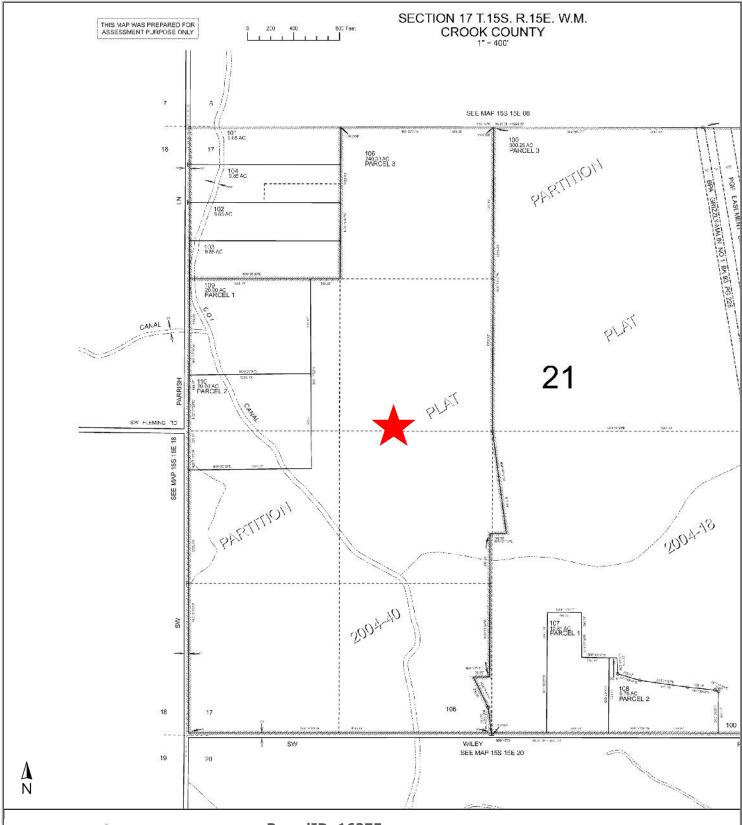
My Commission expires:

182839 (2pg)

Township 15 South, Range 15 East of the Willamette Meridian: Section 17, the East ½ of the Northwest ¼; the Southwest ¼ of the Northwest ¼; the Southwest ¼ and the East ½, all located in Crook County, Oregon.

STATE OF OREGON SS182839
COUNTY OF CROOK SS182839
CERTIFY THAT THE WITHIN INSTRUMENT WAS
RECEIVED FOR RECORD ON THE 14±b4± DAY OF
AUGUST 20 2003 AT 12±10 D M.
AND RECORDED IN Deeds
RECORDS OF SAID COUNTY MF NO. 182839
DEANNA E, BERMAN, CROOK COUNTY CLERK
BY OF A LAB STATE OF THE COUNTY OF THE COUNTY CLERK
BY OF A LAB STATE OF THE COUNTY OF THE COUNTY CLERK

31°

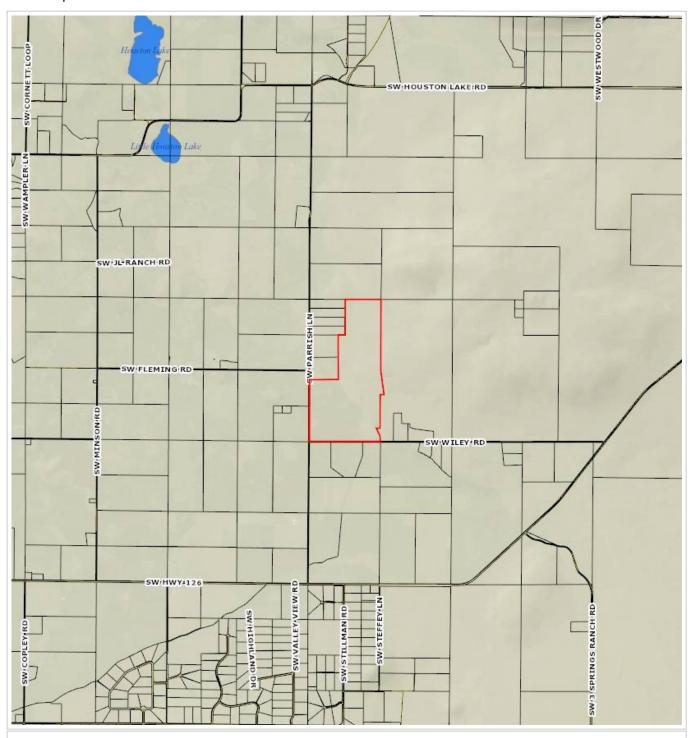


ParcelID: 16275

Tax Account #: 1515170000106

4272 SW Parrish Ln, Powell Butte OR 97753

Western Title & Escrow This map/plat is being furnished as an aid in locating the herein described land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.





Parcel ID: 16275

Sentry Dynamics, Inc. and its customers make no representations, warranties or conditions, express or implied, as to the accuracy or completeness of information contained in this report.



Parcel Information	
Parcel #:	16828
Tax Account:	1515170000109
Site Address:	
	OR 97753
Owner:	818 Powell Butte LLC
	21059 Avery Ln
	Bend OR 97702
Twn/Range/Section:	15S / 15E / 17
Parcel Size:	20.00 Acres (871,200 SqFt)
Legal Lot/Block:	40 / 4
Census Tract/Block:	950300 / 5062
Levy Code:	21
Levy Rate:	12.5019
Levy Year:	2020
Market Land Value:	\$248,370.00
Market Impr Value:	\$0.00
Market Total Value:	\$248,370.00 (2021)
Assd Total Value:	\$148,920.00 (2021)

Tax Informati	<u>on</u>	
Tax Year	Annual Tax	
2021	\$1,858.98	
2020	\$1,807.62	
2019	\$1,743.65	

### **Legal**

Lot: 40, Block: 4, Township: 15S, Range: 15E, Section: 17

П	а	n	d

Land Use:	470 - Tract Land Perm FU Disq Unimp	Zoning:	EFU3 - Exclusive Farm Use
# Dwellings:		School District:	Powell Butte School District
Primary School:	Powell Butte Community Charter School	Middle School:	Powell Butte Community Charter School
High School:	Crook County High School		

### **Improvement**

Year Built:	Bedrooms:	Bathrooms, Total:	
Bathrooms, Full:	Bathrooms, Half:	Finished Area:	
Floor 1:	Floor 2:	Garage:	
Carport:	Attic:	Basement:	
Condition:			

Sentry Dynamics, Inc. and its customers make no representations, warranties or conditions, express or implied, as to the accuracy or completeness of information contained in this report.



# **Crook County Property Summary Report**

Report Date: 1/4/2022 1:52:20 PM

#### **Disclaimer**

The information and maps presented in this report are provided for your convenience. Every reasonable effort has been made to assure the accuracy of the data and associated maps. Crook County makes no warranty, representation or guarantee as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. Crook County explicitly disclaims any representations and warranties, including, without limitation, the implied warranties of merchantability and fitness for a particular purpose. Crook County shall assume no liability for any errors, omissions, or inaccuracies in the information provided regardless of how caused. Crook County assumes no liability for any decisions made or actions taken or not taken by the user of this information or data furnished hereunder.

### **Account Summary**

**Account Information** 

Mailing Name: 818 POWELL BUTTE LLC
Map and Taxlot: 15151700-00109-16828

Account: 16828
Tax Status: Taxable

Situs Address: UNDETERMINED SITUS ADDRESS

**Property Taxes** 

Current Tax Year: 2021 Tax Code Area: 0021

**Assessment** 

Subdivision: PART PLAT YEAR & # NO PARCEL #

**Lot**: 40 **Block**: 4

Assessor Acres: 20.00 Property Class: 470 **Ownership** 

**Mailing Address:** 

818 POWELL BUTTE LLC

21059 AVERY LN BEND, OR 97702

**Valuation** 

Real Market Values as of Jan. 1, 2022

**Land** \$248,370

**Structures** 

**Total** \$248,370

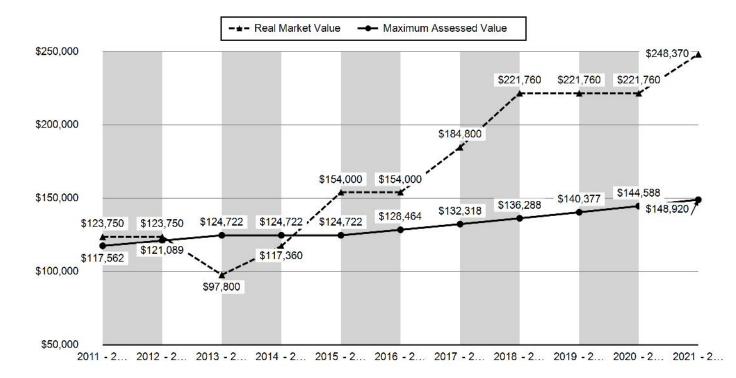
**Current Assessed Values:** 

Maximum Assessed\$148,920Assessed Value\$148,920Veterans Exemption\$0.00

# Warnings, Notations, and Special Assessments

Valuation History All values are as of January 1 of each year. Tax year is July 1st through June 30th of each year.						
	2011 - 2012	2012 - 2013	2013 - 2014	2014 - 2015	2015 - 2016	
Real Market Value - Land	\$123,750	\$123,750	\$97,800	\$117,360	\$154,000	
Real Market Value - Structures	\$0	\$0	\$0	\$0	\$0	
Total Real Market Value	\$123,750	\$123,750	\$97,800	\$117,360	\$154,000	
Maximum Assessed Value	\$117,562	\$121,089	\$124,722	\$124,722	\$124,722	
Total Assessed Value	\$117,562	\$121,089	\$97,800	\$117,360	\$124,722	
Exemption Value	\$0	\$0	\$0	\$0	\$0	

2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021	2021 - 2022
\$154,000	\$184,800	\$221,760	\$221,760	\$221,760	\$248,370
\$0	\$0	\$0	\$0	\$0	\$0
\$154,000	\$184,800	\$221,760	\$221,760	\$221,760	\$248,370
\$128,464	\$132,318	\$136,288	\$140,377	\$144,588	\$148,920
\$128,464	\$132,318	\$136,288	\$140,377	\$144,588	\$148,920
\$0	\$0	\$0	\$0	\$0	\$0



Tax P	ayment H	listory							
Year	Date Due	Transaction Type	Transaction Date	As Of Date	Amount Received	Tax Due	Discount Amount	Interest Charged	Refund Interest
2021	11/15/2021	PAYMENT	11/04/2021	11/04/2021	\$1,803.21	(\$1,858.98)	\$55.77	\$0.00	\$0.00
2021	11/15/2021	IMPOSED	10/12/2021	11/15/2021	\$0.00	\$1,858.98	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2020	11/15/2020	PAYMENT	11/03/2020	11/03/2020	\$1,753.39	(\$1,807.62)	\$54.23	\$0.00	\$0.00
2020	11/15/2020	IMPOSED	10/16/2020	11/15/2020	\$0.00	\$1,807.62	\$0.00	\$0.00	\$0.00
-					Total:	\$0.00			
2019	11/15/2019	IMPOSED	11/15/2019	11/15/2019	\$0.00	\$1,743.65	\$0.00	\$0.00	\$0.00
2019	11/15/2019	PAYMENT	11/04/2019	11/15/2019	\$1,691.34	(\$1,743.65)	\$52.31	\$0.00	\$0.00
					Total:	\$0.00			
2018	11/15/2018	IMPOSED	11/15/2018	11/15/2018	\$0.00	\$1,699.66	\$0.00	\$0.00	\$0.00
2018	11/15/2018	PAYMENT	11/06/2018	11/15/2018	\$1,648.67	(\$1,699.66)	\$50.99	\$0.00	\$0.00
					Total:	\$0.00			
2017	11/15/2017	IMPOSED	11/15/2017	11/15/2017	\$0.00	\$1,673.93	\$0.00	\$0.00	\$0.00
2017	11/15/2017	PAYMENT	11/06/2017	11/15/2017	\$1,623.71	(\$1,673.93)	\$50.22	\$0.00	\$0.00
					Total:	\$0.00			
2016	11/15/2016	IMPOSED	11/15/2016	11/15/2016	\$0.00	\$1,597.06	\$0.00	\$0.00	\$0.00
2016	11/15/2016	PAYMENT	11/08/2016	11/15/2016	\$1,549.15	(\$1,597.06)	\$47.91	\$0.00	\$0.00
					Total:	\$0.00			
2015	11/15/2015	PAYMENT	11/17/2015	11/15/2015	\$1,481.65	(\$1,527.47)	\$45.82	\$0.00	\$0.00
2015	11/15/2015	IMPOSED	11/15/2015	11/15/2015	\$0.00	\$1,527.47	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2014	11/15/2014	IMPOSED	11/15/2014	11/15/2014	\$0.00	\$1,358.76	\$0.00	\$0.00	\$0.00
2014	11/15/2014	PAYMENT	11/05/2014	11/15/2014	\$1,318.00	(\$1,358.76)	\$40.76	\$0.00	\$0.00
					Total:	\$0.00			
2013	11/15/2013	IMPOSED	11/15/2013	11/15/2013	\$0.00	\$1,166.04	\$0.00	\$0.00	\$0.00
2013	11/15/2013	PAYMENT	11/06/2013	11/15/2013	\$1,131.06	(\$1,166.04)	\$34.98	\$0.00	\$0.00
					Total:	\$0.00			

Year	Date Due	Transaction Type	Transaction Date	As Of Date	Amount Received	Tax Due	Discount Amount	Interest Charged	Refund Interest
2012	11/15/2012	PAYMENT	11/16/2012	11/15/2012	\$1,414.63	(\$1,458.38)	\$43.75	\$0.00	\$0.00
2012	11/15/2012	IMPOSED	11/15/2012	11/15/2012	\$0.00	\$1,458.38	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2011	11/15/2011	IMPOSED	11/15/2011	11/15/2011	\$0.00	\$1,446.55	\$0.00	\$0.00	\$0.00
2011	11/15/2011	PAYMENT	11/08/2011	11/15/2011	\$1,403.15	(\$1,446.55)	\$43.40	\$0.00	\$0.00
					Total:	\$0.00			
2010	11/15/2010	IMPOSED	11/15/2010	11/15/2010	\$0.00	\$1,424.13	\$0.00	\$0.00	\$0.00
2010	11/15/2010	PAYMENT	11/02/2010	11/15/2010	\$1,381.41	(\$1,424.13)	\$42.72	\$0.00	\$0.00
					Total:	\$0.00			
2009	11/15/2009	IMPOSED	11/15/2009	11/15/2009	\$0.00	\$1,380.55	\$0.00	\$0.00	\$0.00
2009	11/15/2009	PAYMENT	11/09/2009	11/15/2009	\$1,339.13	(\$1,380.55)	\$41.42	\$0.00	\$0.00
					Total:	\$0.00			
2008	11/15/2008	PAYMENT	11/17/2008	11/15/2008	\$1,332.93	(\$1,374.15)	\$41.22	\$0.00	\$0.00
2008	11/15/2008	IMPOSED	11/15/2008	11/15/2008	\$0.00	\$1,374.15	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2007	11/15/2007	PAYMENT	01/04/2008	11/15/2007	\$165.41	(\$165.41)	\$0.00	\$0.00	\$0.00
2007	11/15/2007	PAYMENT	11/28/2007	11/15/2007	\$1,129.92	(\$1,124.19)	\$0.00	\$5.73	\$0.00
2007	11/15/2007	IMPOSED	11/15/2007	11/15/2007	\$0.00	\$1,289.60	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2006	11/15/2006	PAYMENT	03/06/2007	11/15/2006	\$1,285.15	(\$1,257.21)	\$0.00	\$27.94	\$0.00
2006	11/15/2006	IMPOSED	11/15/2006	11/15/2006	\$0.00	\$1,257.21	\$0.00	\$0.00	\$0.00
·					Total:	\$0.00			<u></u>
2005	11/15/2005	IMPOSED	11/15/2005	11/15/2005	\$0.00	\$1,057.01	\$0.00	\$0.00	\$0.00
2005	11/15/2005	PAYMENT	11/03/2005	11/15/2005	\$1,025.30	(\$1,057.01)	\$31.71	\$0.00	\$0.00
					Total:	\$0.00			

Sales History				
Sale Date Seller	Buyer	Sale Amount	Sale Type	Recording
Structures				

Land Characteristics				
Land Description	Acres	Land Classification		
Market	19.96	Mrkt		

### **Related Accounts**

Related accounts apply to a property that may be on one map and tax lot but due to billing have more than one account. This occurs when a property is in multiple tax code areas. In other cases there may be business personal property or a manufactured home on this property that is not in the same ownership as the land.

No Related Accounts found.

Ownership			
Name Type	Name	Ownership Type	Percentage
OWNER	818 POWELL BUTTE LLC,		100.00%

#### JULY 1, 2021 TO JUNE 30, 2022 CROOK COUNTY TAX COLLECTOR 200 NE 2nd St Prineville, OR 97754

REAL PROPERTY TAX STATEMENT

ACCOUNT NO: 16828

184.72

PROPERTY DESCRIPTION

CODE: 0021

VALUES:

**STRUCTURES** 

TOTAL RMV

NET TAXABLE:

LAND

MAP: 151517-00-00109

SITUS: **UNDETERMINED** 

REAL MARKET (RMV)

TOTAL ASSESSED VALUE

TOTAL PROPERTY TAX

818 POWELL BUTTE LLC 21059 AVERY LN BEND OR 97702

ACRES: 2	00.00
----------	-------

LAST YEAR

221,760

221,760

144,588

144,588

1,807.62

THIS YEAR

248,370

148,920

1,858.98

2021 2022 CONNEITH THE BY DISTR	KIC I
HIGH DESERT ESD	14.36
CROOK COUNTY SCHOOL DIST	712.67
CENTRAL OR COMM COLLEGE	92.39
EDUCATION TOTAL:	819.42
CROOK COUNTY GENERAL FUND	576.35
AG EXTENSION SERVICE	17.97
CROOK CO HISTORICAL FUND	8.94
CROOK CO FIRE & RESCUE	236.78

2021 - 2022 CURRENT TAX BY DISTRICT

ONCON CO MEDICALEGIA I CAS	0.,,
CROOK CO FIRE & RESCUE	236.78
CEMETERY DISTRICT	14.80
GENERAL GOVT TOTAL:	854.84
CC JAIL BOND	32.45
CC SCHOOL BOND	136.84
COCC BOND & INTEREST	15.43

BONDS - OTHER TOTAL: 248,370 148,920

> 2021 - 2022 TAX (Before Discount) 1,858.98

Please Make Payment To: CROOK COUNTY TAX COLLECTOR (Refer to back of statement and insert enclosed for more information)

Crook County Website - www.co.crook.or.us

Tax Collector (541) 447-6554 or Assessor (541) 447-4133

TOTAL DUE (After Discount) 1,803.23

(See back of statement for instructions)	TAX			
PAYMENT OPTIONS FULL PAYMENT 2/3 PAYMENT 1/3 PAYMENT	<u>Date Due</u> Nov 15, 2021 Nov 15, 2021 Nov 15, 2021	<u>Discount Allowed</u> 55.77 24.79	3% Discount 2% Discount No Discount	Amount 1,803.21 1,214.53 619.66

↑ Tear Here	PLEASE RETURN THIS PORTION W		Tear Here 🕇						
2021 - 2022 PROPERTY TAXES	CROOK COUNTY,	ACCOUNT NO. 16828							
FULL PAYMENT	(Includes 3% Discount)	DUE	Nov 15, 2021		1,803.21				
2/3 PAYMENT	(Includes 2% Discount)	DUE	Nov 15, 2021		1,214.53				
1/3 PAYMENT	(No Discount Offered)	DUE	Nov 15, 2021		619.66				

(DISCOUNT IS LOST & INTEREST APPLIES AFTER DUE DATE)

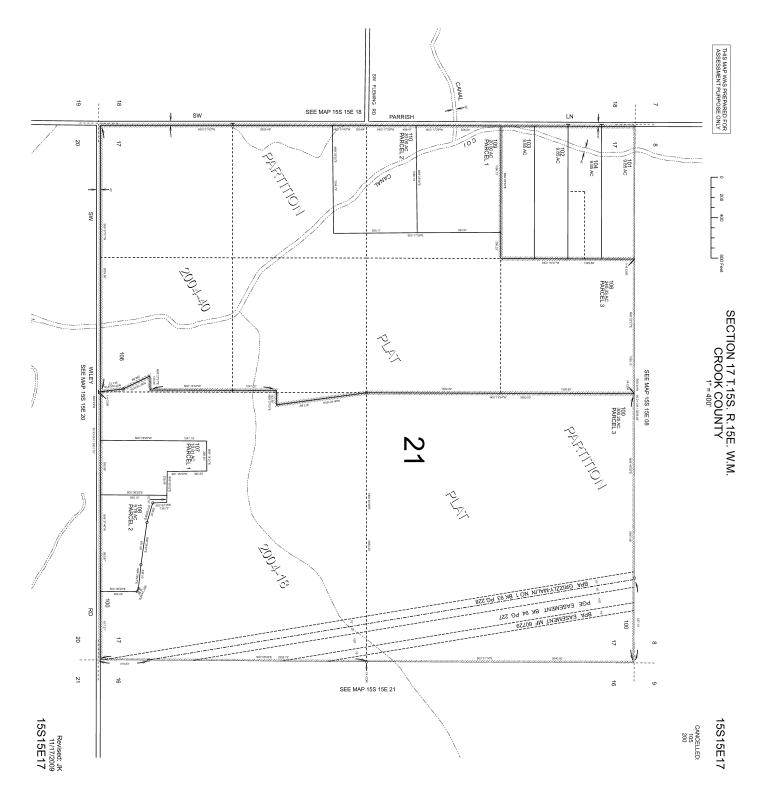
Mailing address change on back

MAKE PAYMENT TO:

Enter Payment Amount

818 POWELL BUTTE LLC 21059 AVERY LN BEND OR 97702

CROOK COUNTY TAX COLLECTOR 200 NE 2nd St Prineville, OR 97754



**Document:** 

**Warranty Deed** 

**Grantor:** 

**Eugene W. Gramzow Revocable Trust** 

**Grantee:** 

818 Powell Butte, LLC

# After recording, please return to: 818 Powell Butte, LLC, at 321 Goodpasture Island Road, Eugene, OR 97401

#### WARRANTY DEED

This instrument is made on July 1, 2003, between Eugene W. Gramzow, Trustee of the Eugene W. Gramzow Revocable Trust, dated February 3, 1998, as Grantor, and 818 Powell Butte, LLC, an Oregon limited liability company, as Grantee. Grantor hereby conveys and warrants to Grantee the following described real property situated in Crook County, Oregon, free of encumbrances except as set forth herein, to-wit:

See Exhibit "A"

This conveyance is subject to and excepts rights of the public in streets, roads and highways, covenants, conditions, restrictions, reservations and easements of record.

The true consideration for this conveyance is \$977,857.50.

THIS INSTRUMENT WILL NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES AND TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST FARMING OR FOREST PRACTICES AS DEFINED IN ORS 30.930.

Dated July 1, 2003.

Eugene W. Gramzow Revocable Trust, dated February 3, 1998

By Eugene W. Trustee Gramzow:

State of Oregon

County of Lane

) ss:

OFFICIAL SEAL AMY S LA GRANDER NOTARY PUBLIC - OREGON COMMISSION NO. 354390 MY COMMISSION EXPIRES MAR. 2, 2006

This instrument was acknowledged before me on July 1, 2003, by Eugene Wg. Gramzow, who is Trustee of the Eugene W. Gramzow Revocable Trust, dated February 3, 1998.

Notary Public for Oregon

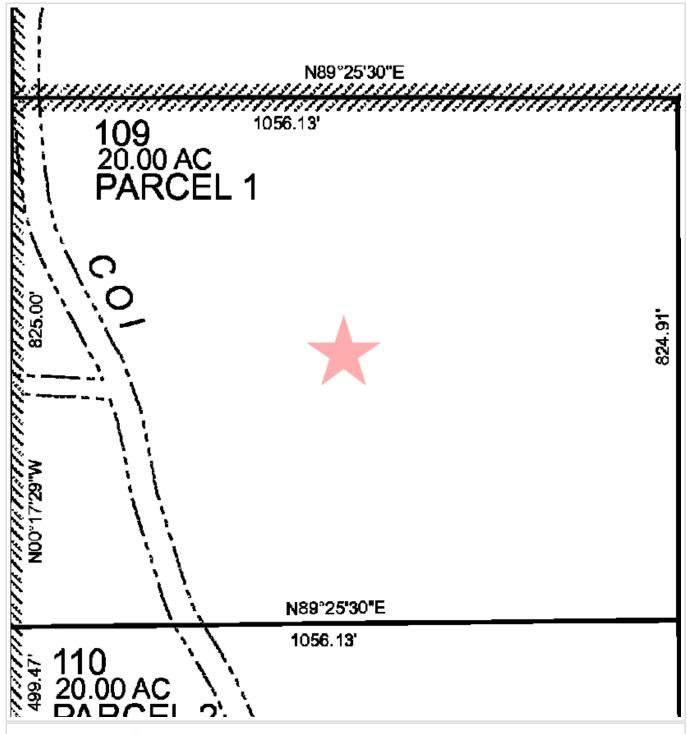
My Commission expires:

182839 (2pg)

Township 15 South, Range 15 East of the Willamette Meridian: Section 17, the East ½ of the Northwest ¼; the Southwest ¼ of the Northwest ¼; the Southwest ¼ and the East ½, all located in Crook County, Oregon.

STATE OF OREGON SS182839
COUNTY OF CROOK SS182839
CERTIFY THAT THE WITHIN INSTRUMENT WAS
RECEIVED FOR RECORD ON THE 14±b4± DAY OF
AUGUST 20 2003 AT 12±10 D M.
AND RECORDED IN Deeds
RECORDS OF SAID COUNTY MF NO. 182839
DEANNA E, BERMAN, CROOK COUNTY CLERK
BY OF A LAB STATE OF THE COUNTY OF THE COUNTY CLERK
BY OF A LAB STATE OF THE COUNTY OF THE COUNTY CLERK

31°



Western Title & Escrow

Parcel ID: 16828

Site Address:





Parcel ID: 16828



Parcel Information	
Parcel #:	16829
Tax Account:	1515170000110
Site Address:	
	OR 97753
Owner:	818 Powell Butte LLC
	21059 Avery Ln
	Bend OR 97702
Twn/Range/Section:	15S / 15E / 17
Parcel Size:	20.00 Acres (871,200 SqFt)
Legal Lot/Block:	40 / 4
Census Tract/Block:	950300 / 5062
Levy Code:	21
Levy Rate:	12.5019
Levy Year:	2020
Market Land Value:	\$248,370.00
Market Impr Value:	\$0.00
Market Total Value:	\$248,370.00 (2021)
Assd Total Value:	\$148,920.00 (2021)

Tax Information	<u>on</u>	
Tax Year	Annual Tax	
2021	\$1,858.98	
2020	\$1,807.62	
2019	\$1,743.65	

#### **Legal**

Lot: 40, Block: 4, Township: 15S, Range: 15E, Section: 17

#### Land

Land Use:	470 - Tract Land Perm FU Disq Unimp	Zoning:	EFU3 - Exclusive Farm Use
# Dwellings:		School District:	Powell Butte School District
Primary School:	Powell Butte Community Charter School	Middle School:	Powell Butte Community Charter School
High School:	Crook County High School		

### **Improvement**

Year Built:	Bedrooms	: Bathrooms, Total:	
Bathrooms, Full:	Bathrooms, Hal	: Finished Area:	
Floor 1:	Floor 2	: Garage:	
Carport:	Attio	: Basement:	
Condition:			



Report Date: 1/4/2022 1:57:25 PM

#### **Disclaimer**

The information and maps presented in this report are provided for your convenience. Every reasonable effort has been made to assure the accuracy of the data and associated maps. Crook County makes no warranty, representation or guarantee as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. Crook County explicitly disclaims any representations and warranties, including, without limitation, the implied warranties of merchantability and fitness for a particular purpose. Crook County shall assume no liability for any errors, omissions, or inaccuracies in the information provided regardless of how caused. Crook County assumes no liability for any decisions made or actions taken or not taken by the user of this information or data furnished hereunder.

#### **Account Summary**

**Account Information** 

Mailing Name: 818 POWELL BUTTE LLC
Map and Taxlot: 15151700-00110-16829

Account: 16829
Tax Status: Taxable

Situs Address: UNDETERMINED SITUS ADDRESS

**Property Taxes** 

Current Tax Year: 2021 Tax Code Area: 0021

**Assessment** 

Subdivision: PART PLAT YEAR & # NO PARCEL #

**Lot**: 40 **Block**: 4

Assessor Acres: 20.00 Property Class: 470 **Ownership** 

**Mailing Address:** 

818 POWELL BUTTE LLC

21059 AVERY LN BEND, OR 97702

**Valuation** 

Real Market Values as of Jan. 1, 2022

**Land** \$248,370

**Structures** 

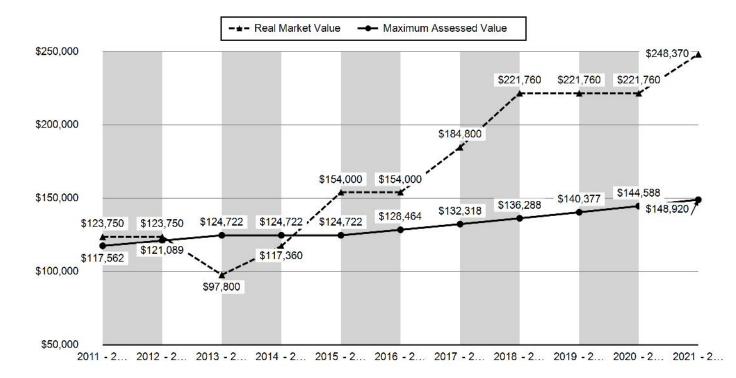
**Total** \$248,370

**Current Assessed Values:** 

Maximum Assessed\$148,920Assessed Value\$148,920Veterans Exemption\$0.00

Valuation History All values are	e as of January 1 of e	ach year. Tax year	is July 1st through J	lune 30th of each ye	ear.
	2011 - 2012	2012 - 2013	2013 - 2014	2014 - 2015	2015 - 2016
Real Market Value - Land	\$123,750	\$123,750	\$97,800	\$117,360	\$154,000
Real Market Value - Structures	\$0	\$0	\$0	\$0	\$0
Total Real Market Value	\$123,750	\$123,750	\$97,800	\$117,360	\$154,000
Maximum Assessed Value	\$117,562	\$121,089	\$124,722	\$124,722	\$124,722
Total Assessed Value	\$117,562	\$121,089	\$97,800	\$117,360	\$124,722
Exemption Value	\$0	\$0	\$0	\$0	\$0

2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021	2021 - 2022
\$154,000	\$184,800	\$221,760	\$221,760	\$221,760	\$248,370
\$0	\$0	\$0	\$0	\$0	\$0
\$154,000	\$184,800	\$221,760	\$221,760	\$221,760	\$248,370
\$128,464	\$132,318	\$136,288	\$140,377	\$144,588	\$148,920
\$128,464	\$132,318	\$136,288	\$140,377	\$144,588	\$148,920
\$0	\$0	\$0	\$0	\$0	\$0



Tax P	ayment H	listory							
Year	Date Due	Transaction Type	Transaction Date	As Of Date	Amount Received	Tax Due	Discount Amount	Interest Charged	Refund Interest
2021	11/15/2021	PAYMENT	11/04/2021	11/04/2021	\$1,803.21	(\$1,858.98)	\$55.77	\$0.00	\$0.00
2021	11/15/2021	IMPOSED	10/12/2021	11/15/2021	\$0.00	\$1,858.98	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2020	11/15/2020	PAYMENT	11/03/2020	11/03/2020	\$1,753.39	(\$1,807.62)	\$54.23	\$0.00	\$0.00
2020	11/15/2020	IMPOSED	10/16/2020	11/15/2020	\$0.00	\$1,807.62	\$0.00	\$0.00	\$0.00
-					Total:	\$0.00			
2019	11/15/2019	IMPOSED	11/15/2019	11/15/2019	\$0.00	\$1,743.65	\$0.00	\$0.00	\$0.00
2019	11/15/2019	PAYMENT	11/04/2019	11/15/2019	\$1,691.34	(\$1,743.65)	\$52.31	\$0.00	\$0.00
					Total:	\$0.00			
2018	11/15/2018	IMPOSED	11/15/2018	11/15/2018	\$0.00	\$1,699.66	\$0.00	\$0.00	\$0.00
2018	11/15/2018	PAYMENT	11/06/2018	11/15/2018	\$1,648.67	(\$1,699.66)	\$50.99	\$0.00	\$0.00
					Total:	\$0.00			
2017	11/15/2017	IMPOSED	11/15/2017	11/15/2017	\$0.00	\$1,673.93	\$0.00	\$0.00	\$0.00
2017	11/15/2017	PAYMENT	11/06/2017	11/15/2017	\$1,623.71	(\$1,673.93)	\$50.22	\$0.00	\$0.00
					Total:	\$0.00			
2016	11/15/2016	IMPOSED	11/15/2016	11/15/2016	\$0.00	\$1,597.06	\$0.00	\$0.00	\$0.00
2016	11/15/2016	PAYMENT	11/08/2016	11/15/2016	\$1,549.15	(\$1,597.06)	\$47.91	\$0.00	\$0.00
					Total:	\$0.00			
2015	11/15/2015	PAYMENT	11/17/2015	11/15/2015	\$1,481.65	(\$1,527.47)	\$45.82	\$0.00	\$0.00
2015	11/15/2015	IMPOSED	11/15/2015	11/15/2015	\$0.00	\$1,527.47	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2014	11/15/2014	IMPOSED	11/15/2014	11/15/2014	\$0.00	\$1,358.76	\$0.00	\$0.00	\$0.00
2014	11/15/2014	PAYMENT	11/05/2014	11/15/2014	\$1,318.00	(\$1,358.76)	\$40.76	\$0.00	\$0.00
					Total:	\$0.00			
2013	11/15/2013	IMPOSED	11/15/2013	11/15/2013	\$0.00	\$1,166.04	\$0.00	\$0.00	\$0.00
2013	11/15/2013	PAYMENT	11/06/2013	11/15/2013	\$1,131.06	(\$1,166.04)	\$34.98	\$0.00	\$0.00
					Total:	\$0.00			

Year	Date Due	Transaction Type	Transaction Date	As Of Date	Amount Received	Tax Due	Discount Amount	Interest Charged	Refund Interest
2012	11/15/2012	PAYMENT	11/16/2012	11/15/2012	\$1,414.63	(\$1,458.38)	\$43.75	\$0.00	\$0.00
2012	11/15/2012	IMPOSED	11/15/2012	11/15/2012	\$0.00	\$1,458.38	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2011	11/15/2011	IMPOSED	11/15/2011	11/15/2011	\$0.00	\$1,446.55	\$0.00	\$0.00	\$0.00
2011	11/15/2011	PAYMENT	11/08/2011	11/15/2011	\$1,403.15	(\$1,446.55)	\$43.40	\$0.00	\$0.00
					Total:	\$0.00			
2010	11/15/2010	IMPOSED	11/15/2010	11/15/2010	\$0.00	\$1,424.13	\$0.00	\$0.00	\$0.00
2010	11/15/2010	PAYMENT	11/02/2010	11/15/2010	\$1,381.41	(\$1,424.13)	\$42.72	\$0.00	\$0.00
					Total:	\$0.00			
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					Total:	\$0.00			
2008	11/15/2008	PAYMENT	11/17/2008	11/15/2008	\$1,332.93	(\$1,374.15)	\$41.22	\$0.00	\$0.00
2008	11/15/2008	IMPOSED	11/15/2008	11/15/2008	\$0.00	\$1,374.15	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2007	11/15/2007	PAYMENT	11/28/2007	11/15/2007	\$1,295.33	(\$1,289.60)	\$0.00	\$5.73	\$0.00
2007	11/15/2007	IMPOSED	11/15/2007	11/15/2007	\$0.00	\$1,289.60	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2006	11/15/2006	PAYMENT	03/06/2007	11/15/2006	\$1,285.15	(\$1,257.21)	\$0.00	\$27.94	\$0.00
2006	11/15/2006	IMPOSED	11/15/2006	11/15/2006	\$0.00	\$1,257.21	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2005	11/15/2005	IMPOSED	11/15/2005	11/15/2005	\$0.00	\$1,057.01	\$0.00	\$0.00	\$0.00
2005	11/15/2005	PAYMENT	11/03/2005	11/15/2005	\$1,025.30	(\$1,057.01)	\$31.71	\$0.00	\$0.00
		<u> </u>			Total:	\$0.00			

Sales History				
Sale Date Seller	Buyer	Sale Amount	Sale Type	Recording

<b>Land Characteristic</b>	S	
Land Description	Acres	Land Classification
Market	19.96	Mrkt

### **Related Accounts**

Related accounts apply to a property that may be on one map and tax lot but due to billing have more than one account. This occurs when a property is in multiple tax code areas. In other cases there may be business personal property or a manufactured home on this property that is not in the same ownership as the land.

Ownership			
Name Type	Name	Ownership Type	Percentage
OWNER	818 POWELL BUTTE LLC,		100.00%
Taxpayer	818 POWELL BUTTE LLC,		100.00%
			200.00%

#### JULY 1, 2021 TO JUNE 30, 2022 CROOK COUNTY TAX COLLECTOR 200 NE 2nd St Prineville, OR 97754

THIS YEAR

248,370

248,370

REAL PROPERTY TAX STATEMENT

ACCOUNT NO: 16829

PROPERTY DESCRIPTION

CODE: 0021

VALUES:

STRUCTURES TOTAL RMV

LAND

MAP: 151517-00-00110 ACRES: 20.00

SITUS: UNDETERMINED

REAL MARKET (RMV)

818 POWELL BUTTE LLC 21059 AVERY LN BEND OR 97702

|--|

HIGH DESERT ESD CROOK COUNTY SCHOOL DIST	14.36 712.67
CENTRAL OR COMM COLLEGE	92.39
EDUCATION TOTAL:	819.42
CROOK COUNTY GENERAL FUND	576.35
AG EXTENSION SERVICE	17.97
CROOK CO HISTORICAL FUND	8.94
CROOK CO FIRE & RESCUE	236.78
CEMETERY DISTRICT	14.80
GENERAL GOVT TOTAL:	854.84

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CC JAIL BOND	32.45
CC SCHOOL BOND	136.84
COCC BOND & INTEREST	15.43
BONDS - OTHER TOTAL:	184.72

TOTAL ASSESSED VALUE	144,588	148,920
NET TAXABLE:	144,588	148,920
TOTAL PROPERTY TAX	1,807.62	1,858.98

LAST YEAR

221,760

221,760

2021 - 2022 TAX ( Before Discount ) 1,858.98

Please Make Payment To: CROOK COUNTY TAX COLLECTOR (Refer to back of statement and insert enclosed for more information)

Crook County Website - www.co.crook.or.us

Tax Collector (541) 447-6554 or Assessor (541) 447-4133

TOTAL DUE (After Discount )	1,803.21
-----------------------------	----------

(See back of statement for instructions)	TAX	PAYMENT OPTIONS		
PAYMENT OPTIONS FULL PAYMENT 2/3 PAYMENT 1/3 PAYMENT	<u>Date Due</u> Nov 15, 2021 Nov 15, 2021 Nov 15, 2021	Discount Allowed 55.77 24.79	3% Discount 2% Discount No Discount	Amount 1,803.21 1,214.53 619.66

↑ Tear Here	PLEASE RETURN THIS PORTION W		Tear Here		
2021 - 2022 PROPERTY TAXES	CROOK COUNTY, O	ACCOUN	T NO. 16829		
FULL PAYMENT	(Includes 3% Discount)	DUE	Nov 15, 2021		1,803.21
2/3 PAYMENT	(Includes 2% Discount)	DUE	Nov 15, 2021		1,214.53
1/3 PAYMENT	(No Discount Offered)	DUE	Nov 15, 2021		619.66

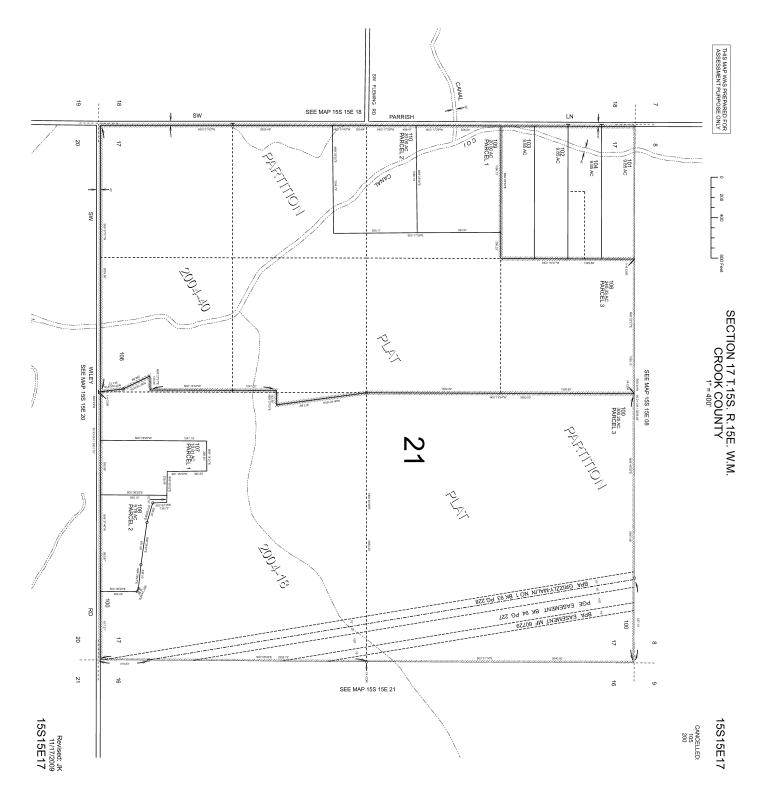
(DISCOUNT IS LOST & INTEREST APPLIES AFTER DUE DATE)

Mailing address change on back

MAKE PAYMENT TO:

Enter Payment Amount

818 POWELL BUTTE LLC 21059 AVERY LN BEND OR 97702 CROOK COUNTY TAX COLLECTOR 200 NE 2nd St Prineville, OR 97754



**Document:** 

**Warranty Deed** 

**Grantor:** 

**Eugene W. Gramzow Revocable Trust** 

**Grantee:** 

818 Powell Butte, LLC

## After recording, please return to: 818 Powell Butte, LLC, at 321 Goodpasture Island Road, Eugene, OR 97401

#### WARRANTY DEED

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See Exhibit "A"

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Dated July 1, 2003.

Eugene W. Gramzow Revocable Trust, dated February 3, 1998

By Eugene W. Trustee Gramzow:

State of Oregon

County of Lane

) ss:

OFFICIAL SEAL AMY S LA GRANDER NOTARY PUBLIC - OREGON COMMISSION NO. 354390 MY COMMISSION EXPIRES MAR. 2, 2006

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Notary Public for Oregon

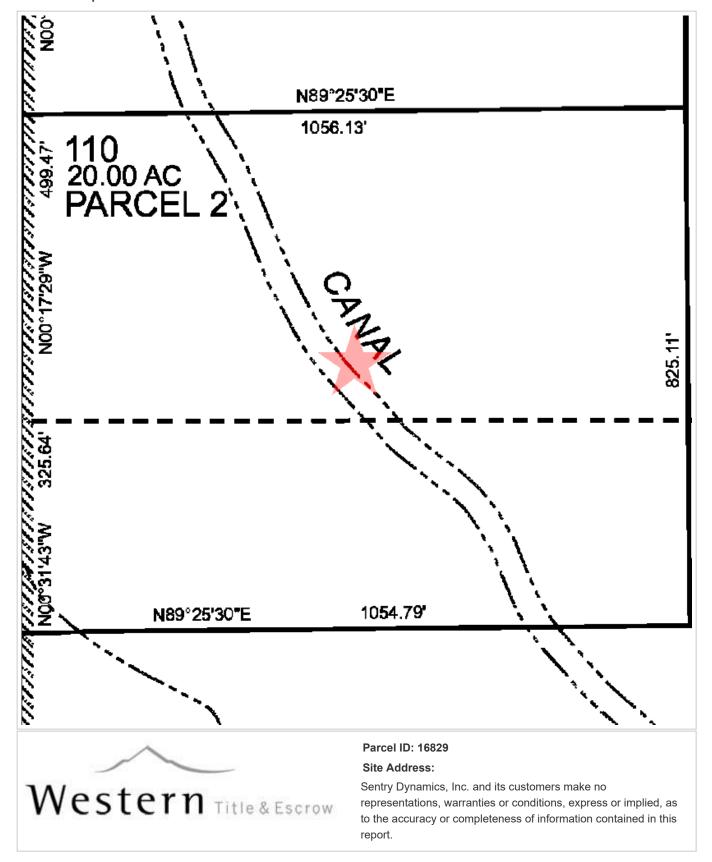
My Commission expires:

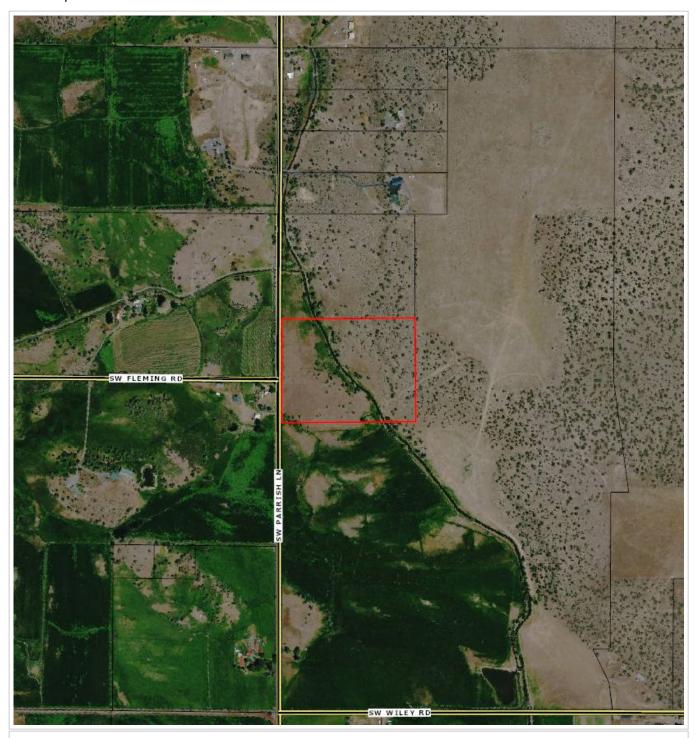
182839 (2pg)

Township 15 South, Range 15 East of the Willamette Meridian: Section 17, the East ½ of the Northwest ¼; the Southwest ¼ of the Northwest ¼; the Southwest ¼ and the East ½, all located in Crook County, Oregon.

STATE OF OREGON SS182839
COUNTY OF CROOK SS182839
CERTIFY THAT THE WITHIN INSTRUMENT WAS
RECEIVED FOR RECORD ON THE 14±b4± DAY OF
AUGUST 20 2003 AT 12±10 D M.
AND RECORDED IN Deeds
RECORDS OF SAID COUNTY MF NO. 182839
DEANNA E, BERMAN, CROOK COUNTY CLERK
BY OF A LAB STATE OF THE COUNTY OF THE COUNTY CLERK
BY OF A LAB STATE OF THE COUNTY OF THE COUNTY CLERK

31°







Parcel ID: 16829



Report Date: 6/3/2021 12:12:06 PM

#### **Disclaimer**

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#### **Account Summary**

**Account Information** 

Mailing Name: 818 POWELL BUTTE LLC
Map and Taxlot: 15151700-00100-1193

Account: 1193
Tax Status: Taxable

Situs Address: 8911 SW WILEY RD, POWELL BUTTE OR

97753

**Property Taxes** 

Current Tax Year: 2020 Tax Code Area: 0021

**Assessment** 

Subdivision: PART PLAT YEAR & # NO PARCEL #

**Lot**: 18 **Block**: 4

Assessor Acres: 300.25 Property Class: 551 **Ownership** 

**Mailing Address:** 

818 POWELL BUTTE LLC

21059 AVERY LN BEND, OR 97702

**Valuation** 

Real Market Values as of Jan. 1, 2020

 Land
 \$42,690

 Structures
 \$21,400

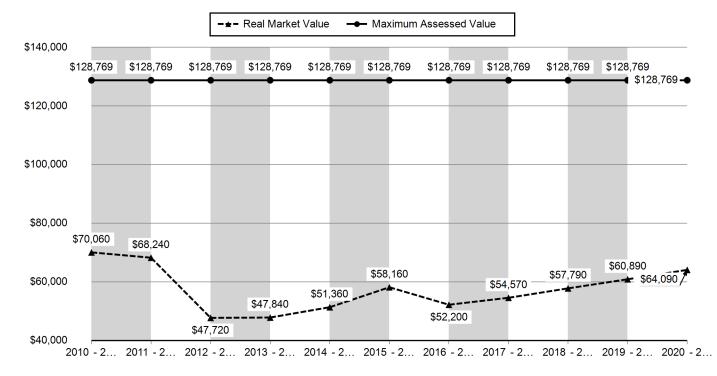
 Total
 \$64,090

**Current Assessed Values:** 

Maximum Assessed\$128,769Assessed Value\$51,720Veterans Exemption\$0.00

Valuation History All values are as of January 1 of each year. Tax year is July 1st through June 30th of each year.								
	2010 - 2011	2011 - 2012	2012 - 2013	2013 - 2014	2014 - 2015			
Real Market Value - Land	\$43,430	\$43,040	\$33,300	\$33,600	\$34,780			
Real Market Value - Structures	\$26,630	\$25,200	\$14,420	\$14,240	\$16,580			
Total Real Market Value	\$70,060	\$68,240	\$47,720	\$47,840	\$51,360			
Maximum Assessed Value	\$128,769	\$128,769	\$128,769	\$128,769	\$128,769			
Total Assessed Value	\$50,780	\$49,710	\$39,550	\$40,230	\$43,200			
Exemption Value	\$0	\$0	\$0	\$0	\$0			

2015 - 2016	2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021
\$36,670	\$38,550	\$40,500	\$42,060	\$42,690	\$42,690
\$21,490	\$13,650	\$14,070	\$15,730	\$18,200	\$21,400
\$58,160	\$52,200	\$54,570	\$57,790	\$60,890	\$64,090
\$128,769	\$128,769	\$128,769	\$128,769	\$128,769	\$128,769
\$48,740	\$41,530	\$42,570	\$44,860	\$48,030	\$51,720
\$0	\$0	\$0	\$0	\$0	\$0



Гах Р	ayment H	listory							
Year	Date Due	Transaction Type	Transaction Date	As Of Date	Amount Received	Tax Due	Discount Amount	Interest Charged	Refund Interest
2020	11/15/2020	PAYMENT	11/03/2020	11/03/2020	\$627.19	(\$646.59)	\$19.40	\$0.00	\$0.00
2020	11/15/2020	IMPOSED	10/16/2020	11/15/2020	\$0.00	\$646.59	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2019	11/15/2019	IMPOSED	11/15/2019	11/15/2019	\$0.00	\$596.59	\$0.00	\$0.00	\$0.00
2019	11/15/2019	PAYMENT	11/04/2019	11/15/2019	\$578.69	(\$596.59)	\$17.90	\$0.00	\$0.00
					Total:	\$0.00			
2018	11/15/2018	IMPOSED	11/15/2018	11/15/2018	\$0.00	\$559.45	\$0.00	\$0.00	\$0.00
2018	11/15/2018	PAYMENT	11/06/2018	11/15/2018	\$542.67	(\$559.45)	\$16.78	\$0.00	\$0.00
					Total:	\$0.00			
2017	11/15/2017	IMPOSED	11/15/2017	11/15/2017	\$0.00	\$538.54	\$0.00	\$0.00	\$0.00
2017	11/15/2017	PAYMENT	11/06/2017	11/15/2017	\$522.38	(\$538.54)	\$16.16	\$0.00	\$0.00
					Total:	\$0.00			
2016	11/15/2016	IMPOSED	11/15/2016	11/15/2016	\$0.00	\$516.30	\$0.00	\$0.00	\$0.00
2016	11/15/2016	PAYMENT	11/08/2016	11/15/2016	\$500.81	(\$516.30)	\$15.49	\$0.00	\$0.00
					Total:	\$0.00			
2015	11/15/2015	PAYMENT	11/17/2015	11/15/2015	\$579.01	(\$596.92)	\$17.91	\$0.00	\$0.00
2015	11/15/2015	IMPOSED	11/15/2015	11/15/2015	\$0.00	\$596.92	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2014	11/15/2014	IMPOSED	11/15/2014	11/15/2014	\$0.00	\$521.86	\$0.00	\$0.00	\$0.00
2014	11/15/2014	PAYMENT	11/05/2014	11/15/2014	\$506.20	(\$521.86)	\$15.66	\$0.00	\$0.00
					Total:	\$0.00			
2013	11/15/2013	IMPOSED	11/15/2013	11/15/2013	\$0.00	\$499.86	\$0.00	\$0.00	\$0.00
2013	11/15/2013	PAYMENT	11/06/2013	11/15/2013	\$484.86	(\$499.86)	\$15.00	\$0.00	\$0.00
					Total:	\$0.00			
2012	11/15/2012	PAYMENT	11/16/2012	11/15/2012	\$477.10	(\$491.86)	\$14.76	\$0.00	\$0.00
2012	11/15/2012	IMPOSED	11/15/2012	11/15/2012	\$0.00	\$491.86	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			

<b>2011</b> 11/15/2011 IMPOSED 11/15/2011 11/15/2011 \$0.00 \$623.55 \$0.00 \$0.00	•
	\$0.00
<b>2011</b> 11/15/2011 PAYMENT 11/08/2011 11/15/2011 \$604.84 (\$623.55) \$18.71 \$0.0	
Total: \$0.00	
<b>2010</b> 11/15/2010 PAYMENT 02/03/2011 11/15/2010 \$1,169.99 (\$1,206.18) \$36.19 \$0.0	\$0.00
<b>2010</b> 11/15/2010 PAYMENT 02/03/2011 11/15/2010 (\$1,206.18) \$1,206.18 \$0.00 \$0.0	\$0.00
<b>2010</b> 11/15/2010 PAYMENT 02/03/2011 11/15/2010 (\$179.49) \$222.35 (\$42.86) \$0.0	\$0.00
<b>2010</b> 11/15/2010 IMPOSED 11/15/2010 11/15/2010 \$0.00 \$1,206.18 \$0.00 \$0.00	\$0.00
<b>2010</b> 11/15/2010 PAYMENT 11/02/2010 11/15/2010 \$1,385.67 (\$1,428.53) \$42.86 \$0.0	\$0.00
Total: \$0.00	
<b>2009</b> 11/15/2009 IMPOSED 11/15/2009 11/15/2009 \$0.00 \$1,333.29 \$0.00 \$0.00	\$0.00
<b>2009</b> 11/15/2009 PAYMENT 11/09/2009 11/15/2009 \$1,293.29 (\$1,333.29) \$40.00 \$0.0	\$0.00
Total: \$0.00	
<b>2008</b> 11/15/2008 PAYMENT 04/06/2009 11/15/2008 \$1,267.03 (\$1,228.80) \$0.00 \$38.2	\$0.00
<b>2008</b> 11/15/2008 IMPOSED 11/15/2008 11/15/2008 \$0.00 \$1,228.80 \$0.00 \$0.00	\$0.00
Total: \$0.00	
<b>2007</b> 11/15/2007 PAYMENT 11/28/2007 11/15/2007 \$2,011.84 (\$2,002.94) \$0.00 \$8.9	\$0.00
<b>2007</b> 11/15/2007 IMPOSED 11/15/2007 11/15/2007 \$0.00 \$2,002.94 \$0.00 \$0.00	\$0.00
Total: \$0.00	
<b>2006</b> 11/15/2006 PAYMENT 03/06/2007 11/15/2006 \$1,996.09 (\$1,952.70) \$0.00 \$43.3	\$0.00
<b>2006</b> 11/15/2006 IMPOSED 11/15/2006 11/15/2006 \$0.00 \$1,952.70 \$0.00 \$0.00	\$0.00
Total: \$0.00	
<b>2005</b> 11/15/2005 IMPOSED 11/15/2005 11/15/2005 \$0.00 \$1,641.77 \$0.00 \$0.00	\$0.00
<b>2005</b> 11/15/2005 PAYMENT 11/03/2005 11/15/2005 \$1,592.52 (\$1,641.77) \$49.25 \$0.0	\$0.00
Total: \$0.00	
<b>2004</b> 11/15/2004 PAYMENT 11/17/2004 11/15/2004 \$6,989.54 (\$7,205.71) \$216.17 \$0.0	\$0.00
<b>2004</b> 11/15/2004 IMPOSED 11/15/2004 11/15/2004 \$0.00 \$7,205.71 \$0.00 \$0.00	\$0.00
Total: \$0.00	
<b>2003</b> 11/15/2003 IMPOSED 11/15/2003 11/15/2003 \$0.00 \$1,840.84 \$0.00 \$0.00	\$0.00
<b>2003</b> 11/15/2003 PAYMENT 11/04/2003 11/15/2003 \$1,785.61 (\$1,840.84) \$55.23 \$0.0	\$0.00
Total: \$0.00	
<b>2002</b> 11/15/2002 IMPOSED 11/15/2002 11/15/2002 \$0.00 \$1,806.66 \$0.00 \$0.00	\$0.00
<b>2002</b> 11/15/2002 PAYMENT 11/01/2002 11/15/2002 \$1,752.46 (\$1,806.66) \$54.20 \$0.0	\$0.00
Total: \$0.00	
<b>2001</b> 11/15/2001 IMPOSED 11/15/2001 11/15/2001 \$0.00 \$2,233.31 \$0.00 \$0.00	\$0.00
<b>2001</b> 11/15/2001 PAYMENT 10/30/2001 11/15/2001 \$2,166.31 (\$2,233.31) \$67.00 \$0.0	\$0.00
Total: \$0.00	
<b>2000</b> 11/15/2000 PAYMENT 07/01/2001 11/15/2000 \$2,340.09 (\$2,193.84) \$0.00 \$146.2	\$0.00
2000 11/15/2000 IMPOSED 11/15/2000 11/15/2000 \$0.00 \$2,193.84 \$0.00 \$0.00 <b>Total:</b>	\$0.00

Sales History							
		_	Sale				
Sale Date	Seller	Buyer	Amount	Sale Type	Recording		
08/14/2003	GRAMZOW, EUGENE W TRUSTEE		\$977,857	WARRANTY DEED	2005-182839		
10/20/1992	UNDETERMINED GRANTOR NAME		\$392,000	WARRANTY DEED	1994-106165		
06/20/1996	HODDER, RICHARD G & SHIRLEY L		\$0	WARRANTY DEED	1998-128645		

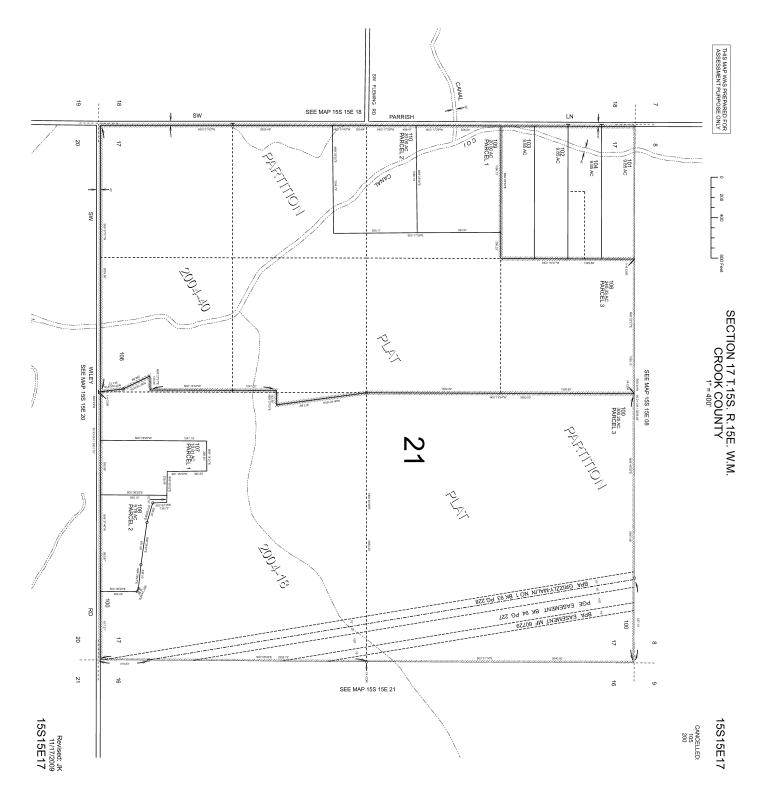
Stat Cla	ss/Description	Improvement Description	Code Area	Year Built	Eff Year Built	Total Sq Ft
FARM BL	DG - : MACHINE SHED	MACHINE SHED	0021	0	1975	1800
	Accessories					
	Improvement Typ	е	Sq Ft			
	Machine Shed			1800		

Land Characteristics						
Land Description	Acres	Land Classification				
Farm Use Zoned	229.01	0272				
Market	1.00	02SHS				
Farm Use Zoned	69.63	024				
OSD	0.00	SA OSD				

## **Related Accounts**

Related accounts apply to a property that may be on one map and tax lot but due to billing have more than one account. This occurs when a property is in multiple tax code areas. In other cases there may be business personal property or a manufactured home on this property that is not in the same ownership as the land.

Ownership			
Name Type	Name	Ownership Type	Percentage
OWNER	818 POWELL BUTTE LLC,		100.00%
Taxpayer	818 POWELL BUTTE LLC,		100.00%
			200.00%



Report Date: 6/3/2021 12:10:51 PM

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### **Account Summary**

**Account Information** 

Mailing Name: 818 POWELL BUTTE LLC
Map and Taxlot: 15151700-00106-16275

Account: 16275
Tax Status: Taxable

Situs Address: 4272 SW PARRISH LN, POWELL BUTTE

OR 97753

**Property Taxes** 

Current Tax Year: 2020 Tax Code Area: 0021

**Assessment** 

Subdivision: PART PLAT YEAR & # NO PARCEL #

**Lot**: 40 **Block**: 4

Assessor Acres: 240.33 Property Class: 550 Ownership

**Mailing Address:** 

818 POWELL BUTTE LLC

21059 AVERY LN BEND, OR 97702

**Valuation** 

Real Market Values as of Jan. 1, 2020

**Land** \$48,110

Structures

**Total** \$48,110

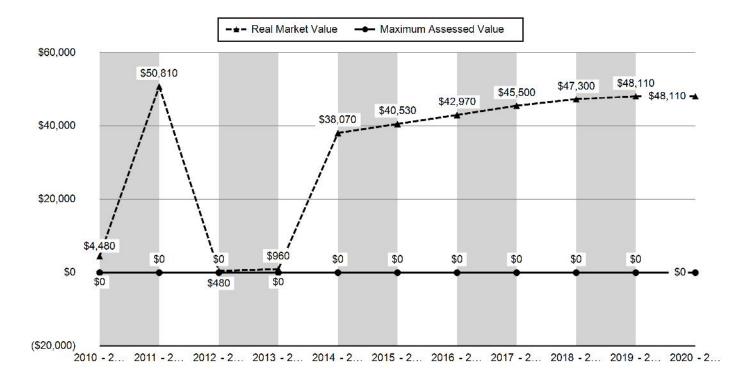
Current Assessed Values:

Maximum Assessed \$0

Assessed Value \$32,700 Veterans Exemption \$0.00

Valuation History All values are as of January 1 of each year. Tax year is July 1st through June 30th of each year.									
	2010 - 2011	2011 - 2012	2012 - 2013	2013 - 2014	2014 - 2015				
Real Market Value - Land	\$4,480	\$50,810	\$480	\$960	\$38,070				
Real Market Value - Structures	\$0	\$0	\$0	\$0	\$0				
Total Real Market Value	\$4,480	\$50,810	\$480	\$960	\$38,070				
Maximum Assessed Value	\$0	\$0	\$0	\$0	\$0				
Total Assessed Value	\$480	\$480	\$480	\$960	\$27,890				
Exemption Value	\$0	\$0	\$0	\$0	\$0				

2015 - 2016	2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021
\$40,530	\$42,970	\$45,500	\$47,300	\$48,110	\$48,110
\$0	\$0	\$0	\$0	\$0	\$0
\$40,530	\$42,970	\$45,500	\$47,300	\$48,110	\$48,110
\$0	\$0	\$0	\$0	\$0	\$0
\$28,700	\$29,510	\$30,340	\$31,150	\$32,050	\$32,700
\$0	\$0	\$0	\$0	\$0	\$0



Tax P	ayment F	listory							
Year	Date Due	Transaction Type	Transaction Date	As Of Date	Amount Received	Tax Due	Discount Amount	Interest Charged	Refund Interest
2020	11/15/2020	PAYMENT	11/03/2020	11/03/2020	\$396.56	(\$408.82)	\$12.26	\$0.00	\$0.00
2020	11/15/2020	IMPOSED	10/16/2020	11/15/2020	\$0.00	\$408.82	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2019	11/15/2019	IMPOSED	11/15/2019	11/15/2019	\$0.00	\$398.10	\$0.00	\$0.00	\$0.00
2019	11/15/2019	PAYMENT	11/04/2019	11/15/2019	\$386.16	(\$398.10)	\$11.94	\$0.00	\$0.00
					Total:	\$0.00			
2018	11/15/2018	IMPOSED	11/15/2018	11/15/2018	\$0.00	\$388.47	\$0.00	\$0.00	\$0.00
2018	11/15/2018	PAYMENT	11/06/2018	11/15/2018	\$376.82	(\$388.47)	\$11.65	\$0.00	\$0.00
					Total:	\$0.00			
2017	11/15/2017	IMPOSED	11/15/2017	11/15/2017	\$0.00	\$383.83	\$0.00	\$0.00	\$0.00
2017	11/15/2017	PAYMENT	11/06/2017	11/15/2017	\$372.32	(\$383.83)	\$11.51	\$0.00	\$0.00
					Total:	\$0.00			
2016	11/15/2016	IMPOSED	11/15/2016	11/15/2016	\$0.00	\$366.87	\$0.00	\$0.00	\$0.00
2016	11/15/2016	PAYMENT	11/08/2016	11/15/2016	\$355.86	(\$366.87)	\$11.01	\$0.00	\$0.00
					Total:	\$0.00			
2015	11/15/2015	PAYMENT	11/17/2015	11/15/2015	\$340.95	(\$351.49)	\$10.54	\$0.00	\$0.00
2015	11/15/2015	IMPOSED	11/15/2015	11/15/2015	\$0.00	\$351.49	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2014	11/15/2014	IMPOSED	11/15/2014	11/15/2014	\$0.00	\$336.91	\$0.00	\$0.00	\$0.00
2014	11/15/2014	PAYMENT	11/05/2014	11/15/2014	\$326.80	(\$336.91)	\$10.11	\$0.00	\$0.00
					Total:	\$0.00			
2013	11/15/2013	IMPOSED	11/15/2013	11/15/2013	\$0.00	\$11.45	\$0.00	\$0.00	\$0.00
2013	11/15/2013	PAYMENT	11/06/2013	11/15/2013	\$11.11	(\$11.45)	\$0.34	\$0.00	\$0.00
					Total:	\$0.00			
2012	11/15/2012	PAYMENT	11/16/2012	11/15/2012	\$5.56	(\$5.73)	\$0.17	\$0.00	\$0.00
2012	11/15/2012	IMPOSED	11/15/2012	11/15/2012	\$0.00	\$5.73	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			

Year	Date Due	Transaction Type	Transaction Date	As Of Date	Amount Received	Tax Due	Discount Amount	Interest Charged	Refund Interest
2011	11/15/2011	IMPOSED	11/15/2011	11/15/2011	\$0.00	\$5.78	\$0.00	\$0.00	\$0.00
2011	11/15/2011	PAYMENT	11/08/2011	11/15/2011	\$5.61	(\$5.78)	\$0.17	\$0.00	\$0.00
					Total:	\$0.00			
2010	11/15/2010	IMPOSED	11/15/2010	11/15/2010	\$0.00	\$5.75	\$0.00	\$0.00	\$0.00
2010	11/15/2010	PAYMENT	11/02/2010	11/15/2010	\$5.58	(\$5.75)	\$0.17	\$0.00	\$0.00
					Total:	\$0.00			
2009	11/15/2009	IMPOSED	11/15/2009	11/15/2009	\$0.00	\$53.56	\$0.00	\$0.00	\$0.00
2009	11/15/2009	PAYMENT	11/09/2009	11/15/2009	\$51.95	(\$53.56)	\$1.61	\$0.00	\$0.00
					Total:	\$0.00			
2008	11/15/2008	PAYMENT	03/24/2009	11/15/2008	(\$184.66)	\$192.25	(\$7.59)	\$0.00	\$0.00
2008	11/15/2008	PAYMENT	11/17/2008	11/15/2008	\$245.52	(\$253.11)	\$7.59	\$0.00	\$0.00
2008	11/15/2008	IMPOSED	11/15/2008	11/15/2008	\$0.00	\$60.86	\$0.00	\$0.00	\$0.00
-					Total:	\$0.00			
2007	11/15/2007	PAYMENT	11/28/2007	11/15/2007	\$221.11	(\$220.13)	\$0.00	\$0.98	\$0.00
2007	11/15/2007	IMPOSED	11/15/2007	11/15/2007	\$0.00	\$220.13	\$0.00	\$0.00	\$0.00
-					Total:	\$0.00			
2006	11/15/2006	PAYMENT	03/06/2007	11/15/2006	\$219.50	(\$214.73)	\$0.00	\$4.77	\$0.00
2006	11/15/2006	IMPOSED	11/15/2006	11/15/2006	\$0.00	\$214.73	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2005	11/15/2005	IMPOSED	11/15/2005	11/15/2005	\$0.00	\$7,338.45	\$0.00	\$0.00	\$0.00
2005	11/15/2005	PAYMENT	10/13/2005	11/15/2005	\$7,118.30	(\$7,338.45)	\$220.15	\$0.00	\$0.00
					Total:	\$0.00			
2004	11/15/2004	PAYMENT	11/17/2004	11/15/2004	\$636.23	(\$655.91)	\$19.68	\$0.00	\$0.00
2004	11/15/2004	IMPOSED	11/15/2004	11/15/2004	\$0.00	\$655.91	\$0.00	\$0.00	\$0.00
-					Total:	\$0.00			
2003	11/15/2003	IMPOSED	11/15/2003	11/15/2003	\$0.00	\$670.26	\$0.00	\$0.00	\$0.00
2003	11/15/2003	PAYMENT	11/04/2003	11/15/2003	\$650.15	(\$670.26)	\$20.11	\$0.00	\$0.00
					Total:	\$0.00			
2002	11/15/2002	IMPOSED	11/15/2002	11/15/2002	\$0.00	\$657.81	\$0.00	\$0.00	\$0.00
2002	11/15/2002	PAYMENT	11/01/2002	11/15/2002	\$638.08	(\$657.81)	\$19.73	\$0.00	\$0.00
					Total:	\$0.00			

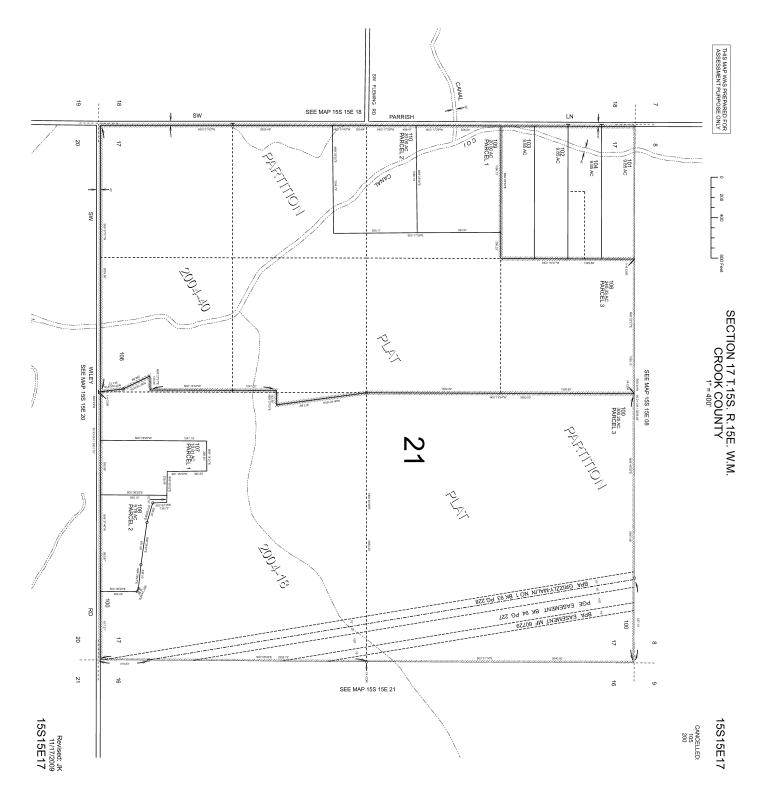
Sales History									
			Sale						
Sale Date		Buyer	Amount	Sale Type	Recording				
08/14/2003	GRAMZOW, EUGENE W TRUSTEE		\$977,857	WARRANTY DEED	2005-182839				

Land Characteristics								
Land Description	Acres	Land Classification						
Farm Use Zoned	74.34	0272						
Farm Use Zoned	2.99	026						
Farm Use Zoned	81.25	261CW						
Farm Use Zoned	81.25	024						

# **Related Accounts**

Related accounts apply to a property that may be on one map and tax lot but due to billing have more than one account. This occurs when a property is in multiple tax code areas. In other cases there may be business personal property or a manufactured home on this property that is not in the same ownership as the land.

Ownership			
Name Type	Name	Ownership Type	Percentage
OWNER	818 POWELL BUTTE LLC,		100.00%
Taxpayer	818 POWELL BUTTE LLC,		100.00%
			200.00%





Report Date: 6/3/2021 12:13:50 PM

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### **Account Summary**

**Account Information** 

Mailing Name: 818 POWELL BUTTE LLC
Map and Taxlot: 15151700-00109-16828

Account: 16828
Tax Status: Taxable

Situs Address: UNDETERMINED SITUS ADDRESS

**Property Taxes** 

Current Tax Year: 2020 Tax Code Area: 0021

**Assessment** 

Subdivision: PART PLAT YEAR & # NO PARCEL #

**Lot**: 40 **Block**: 4

Assessor Acres: 20.00 Property Class: 470 **Ownership** 

**Mailing Address:** 

818 POWELL BUTTE LLC

21059 AVERY LN BEND, OR 97702

**Valuation** 

Real Market Values as of Jan. 1, 2020

**Land** \$221,760

**Structures** 

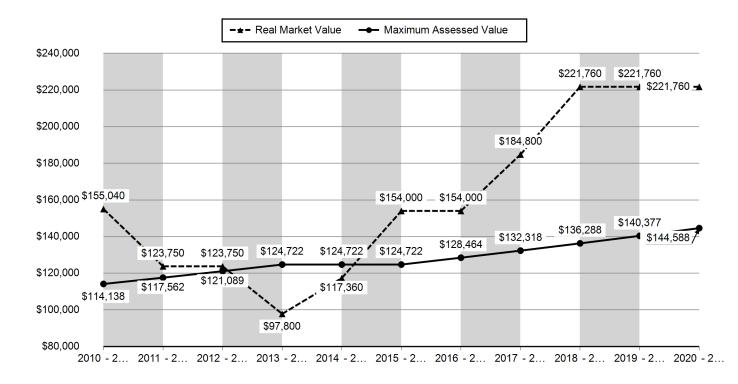
**Total** \$221,760

**Current Assessed Values:** 

Maximum Assessed\$144,588Assessed Value\$144,588Veterans Exemption\$0.00

Valuation History All values are as of January 1 of each year. Tax year is July 1st through June 30th of each year.									
	2010 - 2011	2011 - 2012	2012 - 2013	2013 - 2014	2014 - 2015				
Real Market Value - Land	\$155,040	\$123,750	\$123,750	\$97,800	\$117,360				
Real Market Value - Structures	\$0	\$0	\$0	\$0	\$0				
Total Real Market Value	\$155,040	\$123,750	\$123,750	\$97,800	\$117,360				
Maximum Assessed Value	\$114,138	\$117,562	\$121,089	\$124,722	\$124,722				
Total Assessed Value	\$114,138	\$117,562	\$121,089	\$97,800	\$117,360				
Exemption Value	\$0	\$0	\$0	\$0	\$0				

2015 - 2016	2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021
\$154,000	\$154,000	\$184,800	\$221,760	\$221,760	\$221,760
\$0	\$0	\$0	\$0	\$0	\$0
\$154,000	\$154,000	\$184,800	\$221,760	\$221,760	\$221,760
\$124,722	\$128,464	\$132,318	\$136,288	\$140,377	\$144,588
\$124,722	\$128,464	\$132,318	\$136,288	\$140,377	\$144,588
\$0	\$0	\$0	\$0	\$0	\$0



Tax P	ayment F	listory							
Year	Date Due	Transaction Type	Transaction Date	As Of Date	Amount Received	Tax Due	Discount Amount	Interest Charged	Refund Interest
2020	11/15/2020	PAYMENT	11/03/2020	11/03/2020	\$1,753.39	(\$1,807.62)	\$54.23	\$0.00	\$0.00
2020	11/15/2020	IMPOSED	10/16/2020	11/15/2020	\$0.00	\$1,807.62	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2019	11/15/2019	IMPOSED	11/15/2019	11/15/2019	\$0.00	\$1,743.65	\$0.00	\$0.00	\$0.00
2019	11/15/2019	PAYMENT	11/04/2019	11/15/2019	\$1,691.34	(\$1,743.65)	\$52.31	\$0.00	\$0.00
					Total:	\$0.00			
2018	11/15/2018	IMPOSED	11/15/2018	11/15/2018	\$0.00	\$1,699.66	\$0.00	\$0.00	\$0.00
2018	11/15/2018	PAYMENT	11/06/2018	11/15/2018	\$1,648.67	(\$1,699.66)	\$50.99	\$0.00	\$0.00
					Total:	\$0.00			
2017	11/15/2017	IMPOSED	11/15/2017	11/15/2017	\$0.00	\$1,673.93	\$0.00	\$0.00	\$0.00
2017	11/15/2017	PAYMENT	11/06/2017	11/15/2017	\$1,623.71	(\$1,673.93)	\$50.22	\$0.00	\$0.00
					Total:	\$0.00			
2016	11/15/2016	IMPOSED	11/15/2016	11/15/2016	\$0.00	\$1,597.06	\$0.00	\$0.00	\$0.00
2016	11/15/2016	PAYMENT	11/08/2016	11/15/2016	\$1,549.15	(\$1,597.06)	\$47.91	\$0.00	\$0.00
					Total:	\$0.00			
2015	11/15/2015	PAYMENT	11/17/2015	11/15/2015	\$1,481.65	(\$1,527.47)	\$45.82	\$0.00	\$0.00
2015	11/15/2015	IMPOSED	11/15/2015	11/15/2015	\$0.00	\$1,527.47	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2014	11/15/2014	IMPOSED	11/15/2014	11/15/2014	\$0.00	\$1,358.76	\$0.00	\$0.00	\$0.00
2014	11/15/2014	PAYMENT	11/05/2014	11/15/2014	\$1,318.00	(\$1,358.76)	\$40.76	\$0.00	\$0.00
					Total:	\$0.00			
2013	11/15/2013	IMPOSED	11/15/2013	11/15/2013	\$0.00	\$1,166.04	\$0.00	\$0.00	\$0.00
2013	11/15/2013	PAYMENT	11/06/2013	11/15/2013	\$1,131.06	(\$1,166.04)	\$34.98	\$0.00	\$0.00
					Total:	\$0.00			
2012	11/15/2012	PAYMENT	11/16/2012	11/15/2012	\$1,414.63	(\$1,458.38)	\$43.75	\$0.00	\$0.00
2012	11/15/2012	IMPOSED	11/15/2012	11/15/2012	\$0.00	\$1,458.38	\$0.00	\$0.00	\$0.00
	·	· · · · · · · · · · · · · · · · · · ·		·	Total:	\$0.00	·	·	·

Year	Date Due	Transaction Type	Transaction Date	As Of Date	Amount Received	Tax Due	Discount Amount	Interest Charged	Refund Interest
2011	11/15/2011	IMPOSED	11/15/2011	11/15/2011	\$0.00	\$1,446.55	\$0.00	\$0.00	\$0.00
2011	11/15/2011	PAYMENT	11/08/2011	11/15/2011	\$1,403.15	(\$1,446.55)	\$43.40	\$0.00	\$0.00
-					Total:	\$0.00			
2010	11/15/2010	IMPOSED	11/15/2010	11/15/2010	\$0.00	\$1,424.13	\$0.00	\$0.00	\$0.00
2010	11/15/2010	PAYMENT	11/02/2010	11/15/2010	\$1,381.41	(\$1,424.13)	\$42.72	\$0.00	\$0.00
					Total:	\$0.00			
2009	11/15/2009	IMPOSED	11/15/2009	11/15/2009	\$0.00	\$1,380.55	\$0.00	\$0.00	\$0.00
2009	11/15/2009	PAYMENT	11/09/2009	11/15/2009	\$1,339.13	(\$1,380.55)	\$41.42	\$0.00	\$0.00
					Total:	\$0.00			
2008	11/15/2008	PAYMENT	11/17/2008	11/15/2008	\$1,332.93	(\$1,374.15)	\$41.22	\$0.00	\$0.00
2008	11/15/2008	IMPOSED	11/15/2008	11/15/2008	\$0.00	\$1,374.15	\$0.00	\$0.00	\$0.00
-					Total:	\$0.00			
2007	11/15/2007	PAYMENT	01/04/2008	11/15/2007	\$165.41	(\$165.41)	\$0.00	\$0.00	\$0.00
2007	11/15/2007	PAYMENT	11/28/2007	11/15/2007	\$1,129.92	(\$1,124.19)	\$0.00	\$5.73	\$0.00
2007	11/15/2007	IMPOSED	11/15/2007	11/15/2007	\$0.00	\$1,289.60	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2006	11/15/2006	PAYMENT	03/06/2007	11/15/2006	\$1,285.15	(\$1,257.21)	\$0.00	\$27.94	\$0.00
2006	11/15/2006	IMPOSED	11/15/2006	11/15/2006	\$0.00	\$1,257.21	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2005	11/15/2005	IMPOSED	11/15/2005	11/15/2005	\$0.00	\$1,057.01	\$0.00	\$0.00	\$0.00
2005	11/15/2005	PAYMENT	11/03/2005	11/15/2005	\$1,025.30	(\$1,057.01)	\$31.71	\$0.00	\$0.00
					Total:	\$0.00			

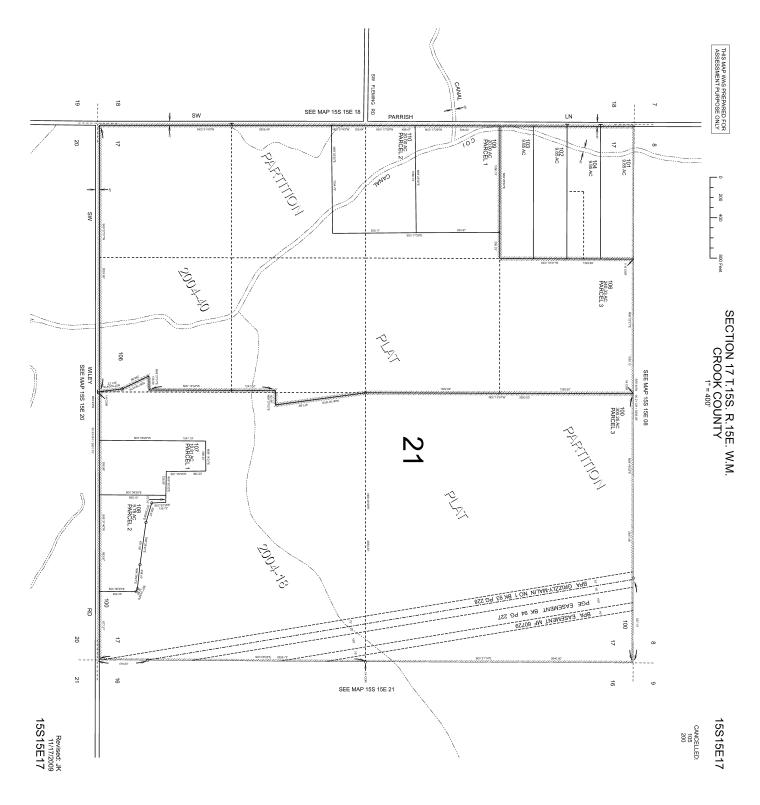
Sales History				
Sale Date Seller	Buyer	Sale Amount	Sale Type	Recording

Land Characteristics					
Land Description	Acres	Land Classification			
Market	19.96	Mrkt			

## **Related Accounts**

Related accounts apply to a property that may be on one map and tax lot but due to billing have more than one account. This occurs when a property is in multiple tax code areas. In other cases there may be business personal property or a manufactured home on this property that is not in the same ownership as the land.

Ownership			
Name Type	Name	Ownership Type	Percentage
OWNER	818 POWELL BUTTE LLC,		100.00%
Taxpayer	818 POWELL BUTTE LLC,		100.00%
			200.00%





Report Date: 6/3/2021 12:13:05 PM

#### **Disclaimer**

The information and maps presented in this report are provided for your convenience. Every reasonable effort has been made to assure the accuracy of the data and associated maps. Crook County makes no warranty, representation or guarantee as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. Crook County explicitly disclaims any representations and warranties, including, without limitation, the implied warranties of merchantability and fitness for a particular purpose. Crook County shall assume no liability for any errors, omissions, or inaccuracies in the information provided regardless of how caused. Crook County assumes no liability for any decisions made or actions taken or not taken by the user of this information or data furnished hereunder.

### **Account Summary**

**Account Information** 

Mailing Name: 818 POWELL BUTTE LLC
Map and Taxlot: 15151700-00110-16829

Account: 16829
Tax Status: Taxable

Situs Address: UNDETERMINED SITUS ADDRESS

**Property Taxes** 

Current Tax Year: 2020 Tax Code Area: 0021

**Assessment** 

Subdivision: PART PLAT YEAR & # NO PARCEL #

**Lot**: 40 **Block**: 4

Assessor Acres: 20.00 Property Class: 470 Ownership

**Mailing Address:** 

818 POWELL BUTTE LLC

21059 AVERY LN BEND, OR 97702

**Valuation** 

Real Market Values as of Jan. 1, 2020

**Land** \$221,760

**Structures** 

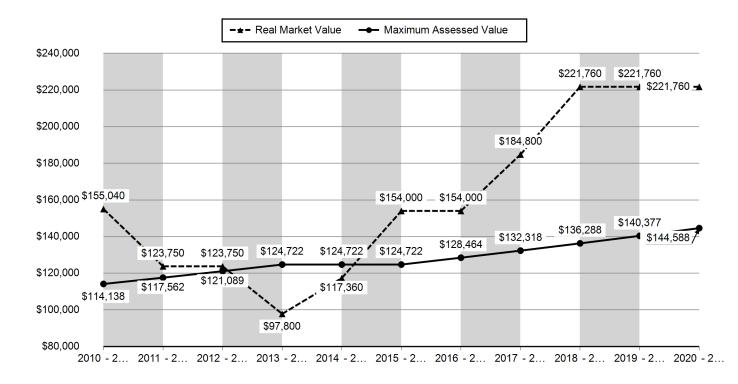
**Total** \$221,760

**Current Assessed Values:** 

Maximum Assessed\$144,588Assessed Value\$144,588Veterans Exemption\$0.00

Valuation History All values are	e as of January 1 of e	each year. Tax year	is July 1st through J	lune 30th of each ye	ear.
	2010 - 2011	2011 - 2012	2012 - 2013	2013 - 2014	2014 - 2015
Real Market Value - Land	\$155,040	\$123,750	\$123,750	\$97,800	\$117,360
Real Market Value - Structures	\$0	\$0	\$0	\$0	\$0
Total Real Market Value	\$155,040	\$123,750	\$123,750	\$97,800	\$117,360
Maximum Assessed Value	\$114,138	\$117,562	\$121,089	\$124,722	\$124,722
Total Assessed Value	\$114,138	\$117,562	\$121,089	\$97,800	\$117,360
Exemption Value	\$0	\$0	\$0	\$0	\$0

2015 - 2016	2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021
\$154,000	\$154,000	\$184,800	\$221,760	\$221,760	\$221,760
\$0	\$0	\$0	\$0	\$0	\$0
\$154,000	\$154,000	\$184,800	\$221,760	\$221,760	\$221,760
\$124,722	\$128,464	\$132,318	\$136,288	\$140,377	\$144,588
\$124,722	\$128,464	\$132,318	\$136,288	\$140,377	\$144,588
\$0	\$0	\$0	\$0	\$0	\$0



Tax P	ayment F	listory							
Year	Date Due	Transaction Type	Transaction Date	As Of Date	Amount Received	Tax Due	Discount Amount	Interest Charged	Refund Interest
2020	11/15/2020	PAYMENT	11/03/2020	11/03/2020	\$1,753.39	(\$1,807.62)	\$54.23	\$0.00	\$0.00
2020	11/15/2020	IMPOSED	10/16/2020	11/15/2020	\$0.00	\$1,807.62	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2019	11/15/2019	IMPOSED	11/15/2019	11/15/2019	\$0.00	\$1,743.65	\$0.00	\$0.00	\$0.00
2019	11/15/2019	PAYMENT	11/04/2019	11/15/2019	\$1,691.34	(\$1,743.65)	\$52.31	\$0.00	\$0.00
					Total:	\$0.00			
2018	11/15/2018	IMPOSED	11/15/2018	11/15/2018	\$0.00	\$1,699.66	\$0.00	\$0.00	\$0.00
2018	11/15/2018	PAYMENT	11/06/2018	11/15/2018	\$1,648.67	(\$1,699.66)	\$50.99	\$0.00	\$0.00
					Total:	\$0.00			
2017	11/15/2017	IMPOSED	11/15/2017	11/15/2017	\$0.00	\$1,673.93	\$0.00	\$0.00	\$0.00
2017	11/15/2017	PAYMENT	11/06/2017	11/15/2017	\$1,623.71	(\$1,673.93)	\$50.22	\$0.00	\$0.00
					Total:	\$0.00			
2016	11/15/2016	IMPOSED	11/15/2016	11/15/2016	\$0.00	\$1,597.06	\$0.00	\$0.00	\$0.00
2016	11/15/2016	PAYMENT	11/08/2016	11/15/2016	\$1,549.15	(\$1,597.06)	\$47.91	\$0.00	\$0.00
					Total:	\$0.00			
2015	11/15/2015	PAYMENT	11/17/2015	11/15/2015	\$1,481.65	(\$1,527.47)	\$45.82	\$0.00	\$0.00
2015	11/15/2015	IMPOSED	11/15/2015	11/15/2015	\$0.00	\$1,527.47	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2014	11/15/2014	IMPOSED	11/15/2014	11/15/2014	\$0.00	\$1,358.76	\$0.00	\$0.00	\$0.00
2014	11/15/2014	PAYMENT	11/05/2014	11/15/2014	\$1,318.00	(\$1,358.76)	\$40.76	\$0.00	\$0.00
					Total:	\$0.00			
2013	11/15/2013	IMPOSED	11/15/2013	11/15/2013	\$0.00	\$1,166.04	\$0.00	\$0.00	\$0.00
2013	11/15/2013	PAYMENT	11/06/2013	11/15/2013	\$1,131.06	(\$1,166.04)	\$34.98	\$0.00	\$0.00
					Total:	\$0.00			
2012	11/15/2012	PAYMENT	11/16/2012	11/15/2012	\$1,414.63	(\$1,458.38)	\$43.75	\$0.00	\$0.00
2012	11/15/2012	IMPOSED	11/15/2012	11/15/2012	\$0.00	\$1,458.38	\$0.00	\$0.00	\$0.00
	·	· · · · · · · · · · · · · · · · · · ·		·	Total:	\$0.00	·	·	·

Year	Date Due	Transaction Type	Transaction Date	As Of Date	Amount Received	Tax Due	Discount Amount	Interest Charged	Refund Interest
2011	11/15/2011	IMPOSED	11/15/2011	11/15/2011	\$0.00	\$1,446.55	\$0.00	\$0.00	\$0.00
2011	11/15/2011	PAYMENT	11/08/2011	11/15/2011	\$1,403.15	(\$1,446.55)	\$43.40	\$0.00	\$0.00
					Total:	\$0.00			
2010	11/15/2010	IMPOSED	11/15/2010	11/15/2010	\$0.00	\$1,424.13	\$0.00	\$0.00	\$0.00
2010	11/15/2010	PAYMENT	11/02/2010	11/15/2010	\$1,381.41	(\$1,424.13)	\$42.72	\$0.00	\$0.00
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2009	11/15/2009	IMPOSED	11/15/2009	11/15/2009	\$0.00	\$1,380.55	\$0.00	\$0.00	\$0.00
2009	11/15/2009	PAYMENT	11/09/2009	11/15/2009	\$1,339.13	(\$1,380.55)	\$41.42	\$0.00	\$0.00
					Total:	\$0.00			
2008	11/15/2008	PAYMENT	11/17/2008	11/15/2008	\$1,332.93	(\$1,374.15)	\$41.22	\$0.00	\$0.00
2008	11/15/2008	IMPOSED	11/15/2008	11/15/2008	\$0.00	\$1,374.15	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2007	11/15/2007	PAYMENT	11/28/2007	11/15/2007	\$1,295.33	(\$1,289.60)	\$0.00	\$5.73	\$0.00
2007	11/15/2007	IMPOSED	11/15/2007	11/15/2007	\$0.00	\$1,289.60	\$0.00	\$0.00	\$0.00
					Total:	\$0.00			
2006	11/15/2006	PAYMENT	03/06/2007	11/15/2006	\$1,285.15	(\$1,257.21)	\$0.00	\$27.94	\$0.00
2006	11/15/2006	IMPOSED	11/15/2006	11/15/2006	\$0.00	\$1,257.21	\$0.00	\$0.00	\$0.00
	<del>-</del>			_	Total:	\$0.00		_	
2005	11/15/2005	IMPOSED	11/15/2005	11/15/2005	\$0.00	\$1,057.01	\$0.00	\$0.00	\$0.00
2005	11/15/2005	PAYMENT	11/03/2005	11/15/2005	\$1,025.30	(\$1,057.01)	\$31.71	\$0.00	\$0.00
					Total:	\$0.00			

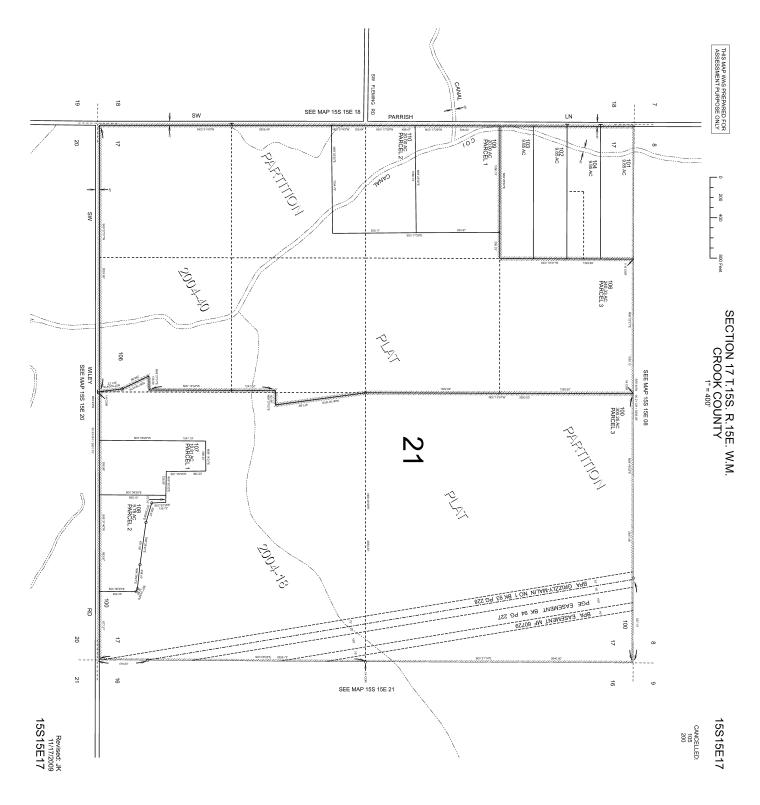
Sales History				
Sale Date Seller	Buyer	Sale Amount	Sale Type	Recording

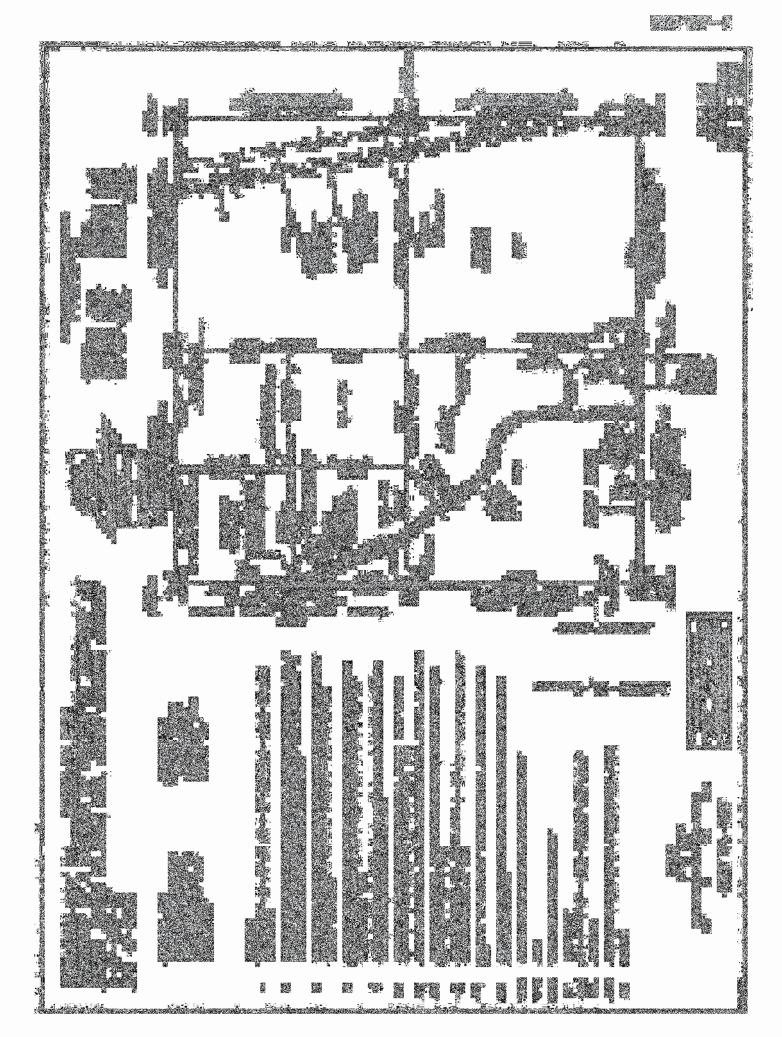
Land Characteristics					
Land Description	Acres	Land Classification			
Market	19.96	Mrkt			

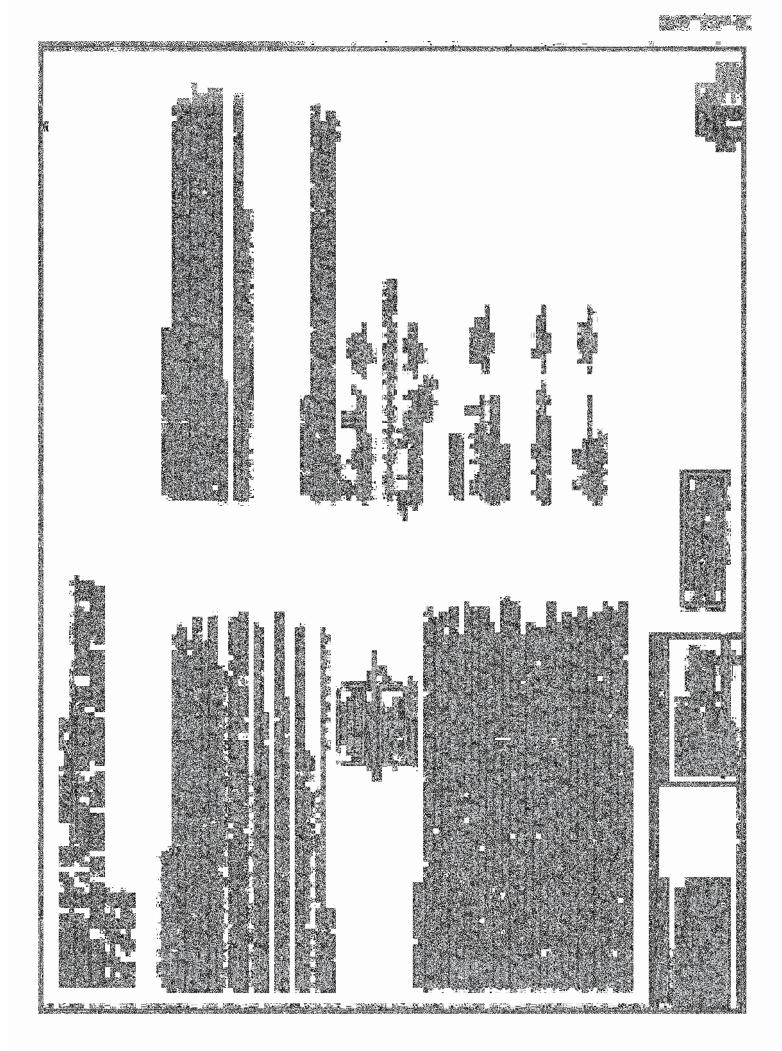
# **Related Accounts**

Related accounts apply to a property that may be on one map and tax lot but due to billing have more than one account. This occurs when a property is in multiple tax code areas. In other cases there may be business personal property or a manufactured home on this property that is not in the same ownership as the land.

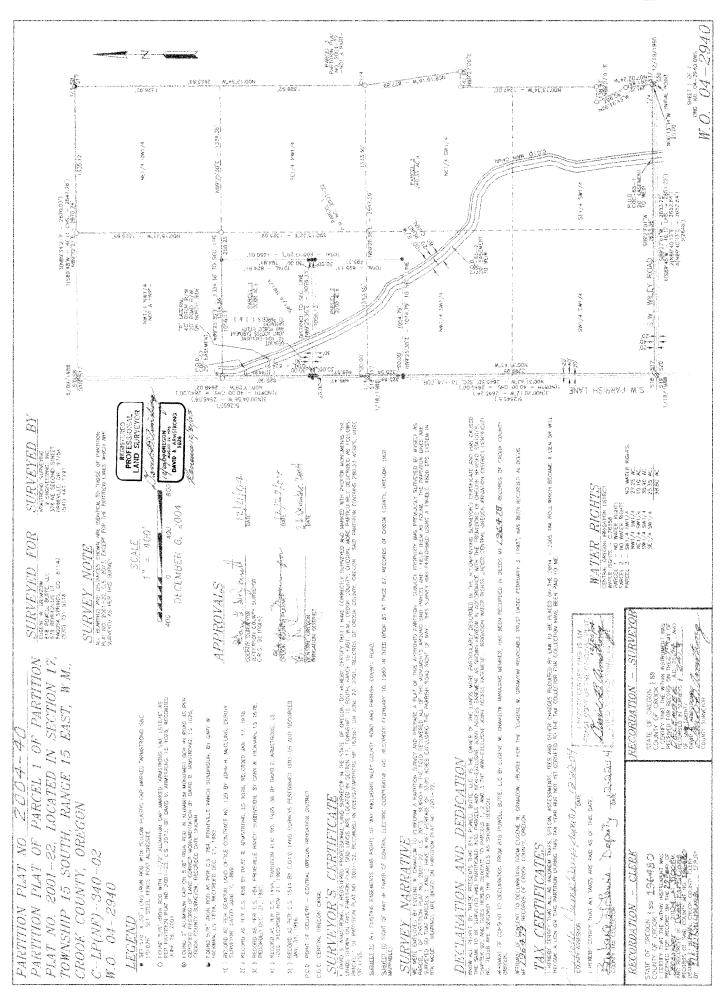
Ownership			
Name Type	Name	Ownership Type	Percentage
OWNER	818 POWELL BUTTE LLC,		100.00%
Taxpayer	818 POWELL BUTTE LLC,		100.00%
			200.00%

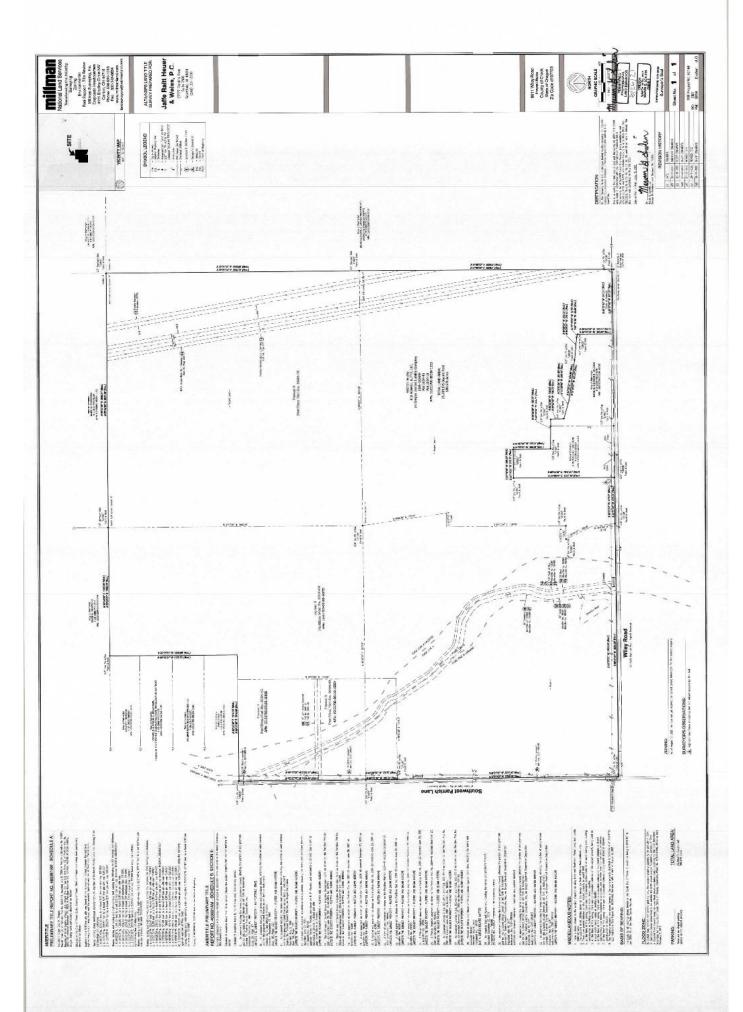




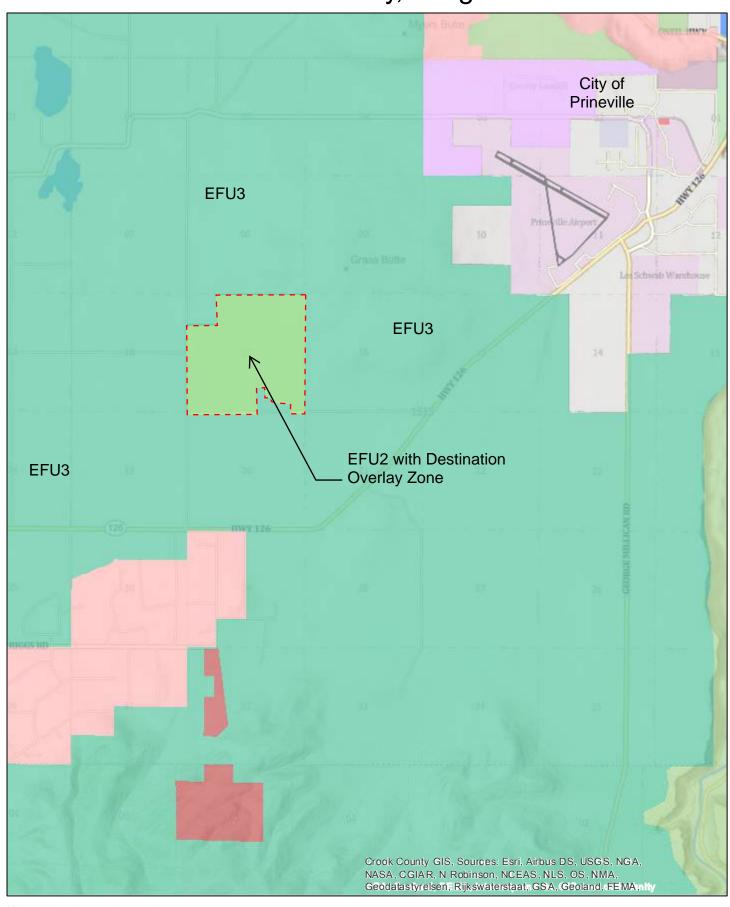


#### 10.004 67.59,77.938 59-867 1 0" 1 60.5 8004 198 8 NO 04-2089. 2000 PRO CARECTO ARROGATION SISTEMA SECTION FROM STATEMAN SECTION SISTEMAN SECTIO 04 C M.C. 2M89572672 — 2847,457 14874 — 40,16, 045, 12645,677 148745,322 — 2447,45 - 045547.N 8.8.2 7450 AF 80729 - TESTATON - PORTURA (STRENE) SEECHE (SMISH) S. S. S. S. Z.Z. WIEV ROAD NEW 28 79 7 - 280,3 34 J. BERNER J. W. - 62.16 CHS. 41/89/15/26.1 - 2.87/ V. COLNTY O. COLD MATER PRATESTS BAS CHECK MALITY NO. 1 IS BY C. 278 2/(3/89/48 POW JOHN JULEY 10 % CONVERT 40 10 1865 OF 10 1865 SURVEY NOTEALL STANGS AND DETAMORES SHOWN AFF. JOHNSON. TO FINESS OF PARTITION PLAY NO. 2-691–92. C.S. 2013. EXCEPTION PARTITION UNES WHICH MENE MENSURED AS PER THE SAME /田/藤 . 85 95% M897770+7 N89727013:1 Considerate Commentation of SURVEYED BY ARMSTRONG STRUCKS NO. STRUCKS NO. STRUCKS NO. STRUCKS NO. STRUCKS OF STRUCKS. X 0/2/2/2/25 F.P. &G. 2761-72 -NOT & PART-PROFESSIONAL LAND SURVEYOR SAVID 8 JAMSTROKE M/B ADDARTANCE WITH 6/08/04 Chr. 2004 70 DELLARATON FROM 818 ROWELL REGTE LLC. RAMBORIS MEMBERS, URS REIN RECORDER IN MELLIN, PEUDFUS OF CROOK CLUMITY, DREEDN. 79.40 × OF UNITED C. PRANSHINGA LAE CASMINA IN FANDE DE HANTED HANTES. OF AMERICA RECORDED IN DELIX ME NATES. ROTAINS OF CROOK CULHAY, OREGON 2. TRANSMISSION LINE EASTMENT IN FAVOR OF POPERCY PROPERCY COMPANION, AN OPEICH COMPANION, RELIEFED IN ORED BOOK S4. AT TAKE CAT, RELIEFED IN CREAK COUNTY, UREBON CORPORATE CONTROLL AND STREET BY SHORT STREET BY THE STATE OF HEREBY CERTIC THAT I ARE CORRECT. SUBJECT BANGER BY THE STATE BY THE STATE S DECLARATION AND DEDICATION SACES FPF THAT ALL AS VALOREM MARKS, SPECIAL ASSESSMENTS, FOUN AND OTHER CHARGES REQUIRED BY LAW TO BE PLANED ON DAT 1003 - 2004 FAX REDOWN TA LEW OF WALL BECOME A LEW ON THIS PARTITION DURING THIS TAX YEAR BUT NOT YELL CENTRIESD TO THE TAX COLLECTION FOR COLLECTION YOUTO ME EASEMENTS OF INCORD INCORD IN TRACE OF UNIVERSITY IN TRACE OF UNIVERSITY IN TRACE OF UNIVERSITY OF THE PARK 228 PROFESS OF ROOM STRONG, STRONG 4 HIGHT OF WAY IN FAVIR OF CENTRAL ELECTRIC COOPERATOR IN MC PRESSORE IN ULBER SIGNED SIGNED SHOWN TO SECONDARY SIGNED WITH THE SECONDARY WE LIKELYTON DAMA IN SEED! 2001 - 23, RECORDR L THE PARTHION 31, 3 THS SURVEY MEMBER SURVINED, FOR STE POWER BATH, LLC ELGEN, W. SPANZON, MODERNS WE STE MADES STERNED, WE STERN STOOD THE SERVE. ZZZZMON, RREDOKO, MEDRESK. THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUM Dan & Showt CANADA SINGE OF MARCH DESTROY PERSON COUNTY SUPPLIOR 1) AFFRESON COUNTY SUPPLEOR LIFES, 92 100/4) APRIL 20, 2004 CONSISTON OF PERFORM A PARTITION SUPPLY OF HIS PROPERTY BEING PARTIES. 2 OF FARMHOW PLATING, NO MOTHER STRONG, "BOTH AND THE WORKING STAND HIS OF HIS AS POINTO," TO THE CARROLL SAFE PROPERTY OF THE AS POINTO," TO THE CARROLL SAFE PROPERTY OF AN APPROXIMATE AS AN ARMEN AS A MATER REPORT ON PROCEED. 4800 OPS STREAM AS TO MODE USING THE SAME OTHERWISE, AS THAT OSED TO PERFORM USING THE SAME. APPROVALS :1 900 AF-TOWN CONTROL OF THE CONTROL OF TH 5 # FOUND 5/8" RON RED WIRT 1-1/2" ALIMMINING LIPP MARKED "ARMSTRONG SAT 15162A" AS PSP PARTION PLAT NO 2001-121, C.S. 2013 BY LAWD B ARMSTRONG, LS 1026, SECREDGING 29, O FOUND 5/81 RIVA PRID WITH PED PLASTIC CAP MARKER 1/5 1020" AS PES CERRITO RECORD OF CARD CORNER MONUMENCE BY USERN, UK. 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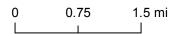


# Crook County, Oregon



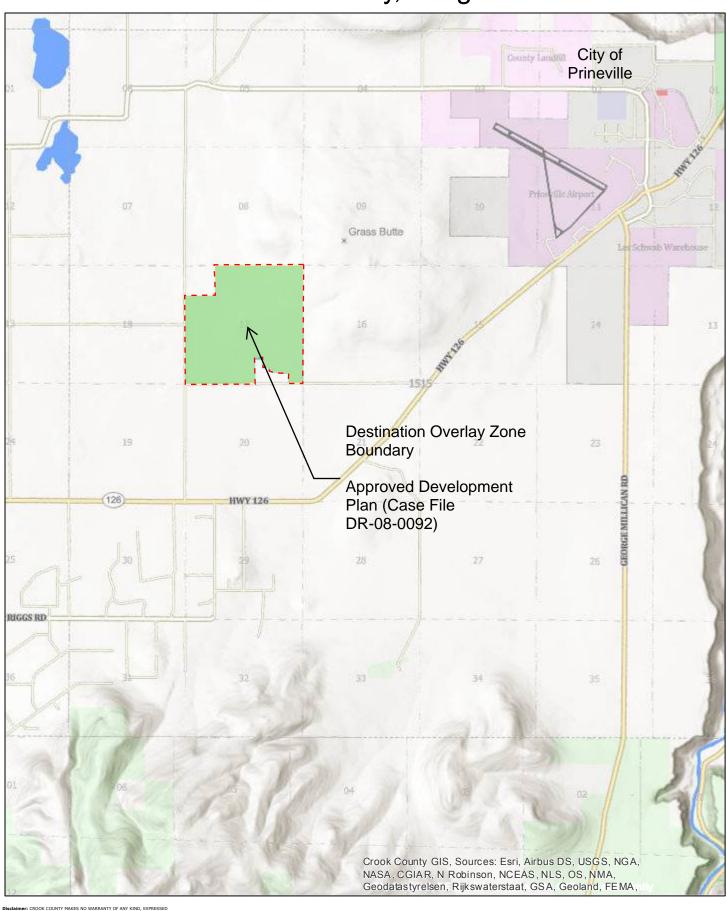
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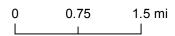




# Crook County, Oregon



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# CROOK COUNTY COURT FINDINGS AND DECISION CROSSING TRAILS RESORT DEVELOPMENT PLAN DR-08-0092

APPLICANT:

818 Powell LLC

PROPERTY OWNER:

c/o Gene Gramzow

380 Q Street, Suite 240

Springfield, OR 97477

ATTORNEY:

Peter Livingston

Martha O. Pagel

Myles A. Conway

Schwabe Williamson & Wyatt 1211 SW 5<sup>th</sup> Avenue, Suite 1500

Portland, OR 97204

AGENT:

Ron Hand

Chelsea Schneider

WH Pacific

920 SW Emkay Drive, Suite C-100

Bend, Oregon 97702

ENGINEER:

Jeff Fuchs

Bussard Williams
389 Scalehouse Court

Bend OR 97702

PROPERTY:

See attached property description

SUBJECT:

Request for Development Plan approval to allow a destination

resort on approximately 580 acres of land zoned EFU-3 with a

Destination Resort (DR) overlay.

# Introduction and Findings of Fact

818 Powell LLC ("Applicant"), seeks to develop the Crossing Trails Resort as a visitor-oriented destination resort in Crook County ("County"). The proposed resort will be located on a 580-acre site in the vicinity of the rural community of Powell Butte. The site is located within the County destination resort overlay zone. The property is north of Oregon Highway 126 and east of SW Parrish Lane. It is approximately six miles west of downtown Prineville and 10 miles east of Redmond. Privately owned lands surround it on all sides, with large ranch properties

adjacent to the south, west and north. The open grasslands of Grass Butte are to the east. The planning commission toured the proposed resort site on June 4, 2008.

The property is relatively flat with a gentle slope rising approximately 280 feet from the southwest to northeast corners of the site. It has prominent views of the Cascade mountain peaks, as well as Smith Rock State Park. Nearly one-third of the property contains areas of meadow grass. The remainder is vegetated with juniper and other low growth vegetation common to Central Oregon.

The property is bisected by an irrigation canal serving the Central Oregon Irrigation District ("COID"), which runs from the southern border of the property to its northwest corner. COID utilizes the irrigation canal during the irrigation season from April through September of each year. The property is also bisected by large, regional electric transmission lines owned and controlled by the Bonneville Power Administration ("BPA"), which run north to south. The property is burdened by a 150-foot-wide electrical utility easement in favor of the BPA. There are also a 150-foot-wide Portland General Electric ("PGE") easement east of the BPA easement and a second BPA easement east of the PGE easement, 77.5 feet in width. The terms of these easements limit development opportunities on the eastern portion.

The property has approximately 163 acres of appurtenant water rights through COID. Portions of these water rights are the subject of a temporary in-stream water lease with the State of Oregon that can be terminated when the water rights are needed for the project. The remainder of the water has been applied to the land in connection with an ongoing, low-scale livestock grazing operation on the subject property. At present, the property is developed with three existing dwellings and associated outbuildings. The property has two irrigation ponds. There are two nonfarm parcels on the southern edge of the property.

The property is located north of Highway 126 and east of SW Parrish Lane. Primary and secondary resort access points to the resort will be located on SW Wiley Road, which borders the subject property to the south. An additional access point, for emergency access only, will be located on SW Parrish Lane. Traffic to Prineville, which is to the east, and Bend/Redmond, which are to the west, will use Highway 126.

The County Planning Commission ("Commission") held hearings on this application on April 30, June 4, June 18, July 2, August 13 and August 27, 2008. The Commission deliberated at public meetings on September 3 and September 9, 2008. Based on written and oral testimony received, the Commission concluded that the resort met all applicable destination resort siting standards in the Crook County Code ("CCC" or "Code") and ORS 197.435-197.467.

On November 3, 2008, the Oregon Department of Transportation ("ODOT") and the Goal One Coalition ("Coalition") filed appeals of the Commission's decisions with the County Court ("Court") under CCC 18.172.110. Under CCC 18.172.110(4), the appeal from the Commission final decision was based on the record made before the Commission. However, as allowed by CCC 18.172.110(12), the Court permitted written argument as follows: (1) Applicant submitted a memorandum dated November 26, 2008, which addressed the issues stated in the notices of appeal; (2) ODOT submitted a letter dated November 26, 2008, containing a legal analysis and a proposed condition 28 (revised and renumbered in this decision to Condition 36);

and (3) the Coalition submitted a letter dated December 3, 2008, responding to the Applicant's November 26, 2008 memorandum;

On November 12, 2008 the Court set the schedule for the appeal and considered a motion to take evidence outside the record filed by Jan Wilson of the Coalition on behalf of Anderson et al pursuant to Crook County Code § 18.172.110(12)(a)(vi) which states:

18.172.110(12)(a)(vi) The appellate body may, at its option, admit additional testimony and other evidence from an interested party or party of record to supplement the record of prior proceedings. The record may be supplemented by order of the appellate body or upon written motion by a party. The written motion shall set forth with particularity the basis for such request and the nature of the evidence sought to be introduced. Prior to supplementing the record, the appellate body shall provide an opportunity for all parties to be heard on the matter. The appellate body may grant the motion upon a finding that the supplement is necessary to take into consideration the inconvenience of locating the evidence at the time of initial hearing, with such inconvenience not being the result of negligence or dilatory act by the moving party.

The evidence the Coalition sought to introduce related to Crook County appeals fees. The Court elected not to take evidence outside the record because the Court determined that the Coalition had not established that "the supplement is necessary to take into consideration the inconvenience of locating the evidence at the time of the initial hearing, with such inconvenience not being the result of negligence or dilatory act by the moving party" pursuant to the Code. The Court noted that the staff memorandum had been available since June 13, 2008 and that the other information appeared to be the same as the information that was submitted in *Young v. Crook County* (LUBA No. 2007-250 June 11, 2008), *aff'd* 224 Or App 1, (2008). The Court found that the information could have been submitted into the record during the initial hearings in front of the Commission. The Court further stated that the appropriate forum to bring such a challenge was during the public hearings held to review adoption of the annual county fee schedule, and that the annual schedule adopted had not been appealed to LUBA.

On December 3, 2008, the Court heard testimony from representatives of Applicant, ODOT and the Coalition. Then, as directed by the Court, the parties submitted additional written argument as follows: (1) Applicant submitted an email on December 8, 2008, with three opinions attached and a proposed alternative Condition 28 (revised and renumbered in this decision to Condition 36); and (2) the Coalition submitted a transcript of an omitted public hearing held with respect to this matter held on September 9, 2008 before the Planning Commission; (3) the Coalition submitted a letter dated December 10, 2008, responding to Applicant's email; and (4) Applicant submitted a memorandum on December 12, 2008, addressing the Coalition's letter.

On December 17, 2008, the Court deliberated and required modifications to the Commission's findings and conditions as they pertain to certain issues raised on appeal. Those modifications are incorporated into the findings and conditions below. Except as modified, the Court accepts and adopts the Commissions findings and conclusions as they are stated below. The Court approves the proposed development plan for a destination resort.

## 18.116.020 Applicability.

- (1) The provisions of this chapter shall apply solely to development which meets the standards set forth in CCC 18.116.040 or 18.116.050. Development, which meets the standards in CCC 18.116.040, shall be referred to hereafter as a "destination resort," and development, which meets the standards in CCC 18.116.050, shall be referred to hereafter as a "small destination resort." Where special standards or criteria are not specifically called out for small destination resorts, the standards for destination resorts shall apply. For a destination resort application, the standards and procedures of this chapter shall govern in cases where they conflict with the standards or procedures of the underlying zone. Other provisions of this title, made applicable by specific map designations such as the floodplain combining zone (FP), airport obstruction overlay zone, riparian protection zone, and sensitive bird habitat combining zone (SBH), or otherwise applicable under the terms of the county zoning ordinance shall remain in full force and effect, except as otherwise specified herein.
- (2) Destination resorts shall be allowed only on tracts mapped by the county as eligible for destination resort siting and designated as such in the comprehensive plan.

As shown on the Destination Resort Overlay Zone map, Application Exhibit ("App. Ex.") 7, the entire property is eligible for destination resort siting and development.

### 18,116.040 Standards.

A destination resort shall meet the following standards:

(1) Development shall be located on a tract that contains at least 160 acres.

The proposed destination resort site is approximately 580 acres.

(2) Development shall not be located on high value farmland.

The proposed destination resort will not be located on High Value Farmland. OAR 660-033-0020(8)(a) defines "High Value Farmland" as "land in a tract composed predominantly of soils that are: (A) Irrigated and classified prime, unique, Class I or II; or (B) Not irrigated and classified prime, unique, Class I or II." Similarly, CCC 18.116.030(3) defines High Value Farmland as "a tract composed predominantly of soils that are classified as prime, unique, Class I, or Class II. A tract is composed predominantly of such soils if more than 50% of the acreage of the tract is composed of prime, unique, Class I, or Class II soils."

The resort tract contains no Class I or II soils and no areas of prime or unique soils. Soil data from the Natural Resource Conservation Service ("NRCS") shows that over 50 percent of the tract is composed of soils with a NRCS rating of Class III or higher. The Stuckmond-Lickskillet complex is Class VIe. The Redmond-Stuckmond complex and the Searles-Lickskillet complex are Class IIIe, if irrigated, and Class VIe, if not irrigated. See App. Ex. 31. Therefore, because the tract is not composed of predominantly Class I, II, or prime soils, it does not qualify as High Value Farmland under the state or local rules.

Some opponents, including the Coalition and 1000 Friends of Oregon, contend that a resort may not be sited on the subject property for the following reasons:

- (1) ORS 197.455 states, "A destination resort must be sited on lands mapped as eligible for destination resort siting by the affected county. The county may not allow destination resorts approved pursuant to ORS 197.435 to 197.467 to be sited in any of the following areas: \* \* \* (b)(B) On a site within three miles of a high value crop area." A high-value crop area is defined by ORS 197.435(2) to mean "an area in which there is a concentration of commercial farms capable of producing crops or products with a minimum gross value of \$1,000 per acre per year. These crops and products include field crops, small fruits, berries, tree fruits, nuts or vegetables, dairying, livestock feedlots or Christmas trees as these terms are used in the 1983 County and State Agricultural Estimates prepared by the Oregon State University Extension Service."
- (2) ORS 197.455(1) was amended in 2003 as follows (with removed language in *italics* and new language in **bold**):

A destination resort [shall] **must** be sited on lands mapped as eligible for destination resort siting by the affected county. [A map adopted by a] **The** county [shall] **may** not allow destination resorts approved pursuant to ORS 197.435 to 197.467 to be sited in any of the following areas.

(3) Hay is a "high-value crop," since recently it has been selling at a minimum gross value of \$1,000 per acre per year. Since the land is presently producing hay, it is a high-value crop area and cannot be developed as a destination resort.

In response, Applicant states:

- (1) Opponents misread ORS 197.455(1), which begins by a reference to "lands mapped as eligible." The statute addresses the mapping process and identifies certain areas that cannot be mapped as eligible for resorts. To focus on one sentence, to the exclusion of the balance of the statute, is to improperly disregard context. ORS 197.455(2) provides, "In carrying out subsection (1) of this section, a county shall adopt, as part of its comprehensive plan, a map consisting of eligible lands within the county. The map must be based on reasonably available information and may be amended pursuant to ORS 197.610 to 197.625, but no more frequently than once every 30 months. The county shall develop a process for collecting and processing concurrently all map amendments made within a 30-month period. A map adopted pursuant to this section shall be the sole basis for determining whether tracts of land are eligible for destination resort siting pursuant to ORS 197.435 to 197.467." (Emphasis added.) In other words, a county cannot change the designation of land as eligible for destination resort siting without amending its destination resort map. It cannot make individual eligibility determinations at the time of application for a resort.
- (2) The 2003 amendment to ORS 197.455(1) does not change its meaning. In the context of the entire statute, it would be incorrect to rely on a change in one sentence, which was made without mention anywhere in the legislative history of the statute, and which would invalidate a clear history involving case law (Foland v. Jackson County, 311 Or 167, 807 P2d 801 (1991)) and subsequent statutory amendments intended to address the Foland holding. As stated by the Destination Resort Handbook, published by the Department of Land Conservation

and Development in 1995, "The purpose of mapping is to clearly show areas available for resort development. \* \* \* It is important that counties precisely map eligible areas. The mapping must be property-specific to avoid uncertainty in applying the plan. The law says that this map is the sole determinant of tracts eligible for destination resorts." (Emphasis added.) Goal 8, which addresses destination resort siting, states in the "Implementing Measures": "A map adopted pursuant to this section shall be the sole basis for determining whether tracts of land are eligible for siting of large destination resorts under the provisions of this goal and ORS 197.435 to 197.467."

The Merriam Webster dictionary defines the term "field crop" as "an agricultural crop (as hay, grain, or cotton) grown on large areas." However, while hay is therefore a "field crop" as that term is used in ORS 197.435(2), hay is not a high-value crop. The opponents have not persuaded the Court that hay has had a *consistent* value of more than \$1,000 per acre per year.

As explained by Applicant's agricultural consultant, Bruce Andrews, in his August 27, 2008 letter (R 198-99), the per-acre values of hay and alfalfa production in the County have been below \$500 per acre for the last five production years. In the production and marketing years of 2006 and 2007, the combined average value (sales) per acre was \$319.40 and \$364.50.

The Crook County Comprehensive Plan ("CCCP") discusses high value crop areas at length and explains the methodology that was used to map them. CCCP, pp. 76-78. The mapping work was done by Stanley D. Miles, a consultant and Agricultural Economist Emeritus at Oregon State University. As explained by the CCCP, p. 76, "The DLCD Destination Resort Handbook further explains that this standard [for a High Value Crop Area] does not include land that routinely fails to produce High Value Crops, but has an exceptionally productive year."

Concerning the report prepared by Miles ("the Miles Report"), the CCCP states:

"[T]he concentrations of commercial farms growing High Value Crops in Crook County are located north and northwest of Prineville and in the northwest corner of Crook County. The Miles Report did not identify a concentration of High Value Crops in the Powell Butte Area (generally defined as Range 14 East, Townships 16 South and 15 South). . . .

"To explain why the Powell Butte Area is not a High Value Crop Area, the Miles Report explains that, under Goal 8 and the Destination Resort Handbook, the definition of "High Value Crop Area" emphasizes the productivity of commercial farms and does not focus solely on the potential productivity of a farm based upon soil type alone. Rather, the definition takes into account all factors relevant to the *consistent* production of crops with a minimum gross value of \$1,000 per acre per year. The Miles Report shows that the unique factors such as the high elevation, high risk of frost, short growing season, and relatively unproductive soil profiles within the Pówell Butte Area limit farmers' ability to cover the costs of production and therefore render the area unsuitable for consistent High Value Crop production. Therefore, the Powell Butte Area does not support a concentration of commercial farms that are capable of producing High Value Crops on a regular or routine annual basis due to climate and topography.

Because the High Value Crop Area standard 'does not include land that routinely doesn't produce high value crops, but has an exceptionally productive year,' the Powell Butte Area is not a High Value Crop Area." CCCP, pp. 77-78.

In adopted Ordinance 17, Amendments 52 and 53, the County considered the issue of mapping of high value crop lands. The county's findings are to be found in Exhibit A of the Comprehensive Plan relating to Destination Resorts. Therein, the County in painstaking detail explains the process used to map high value croplands in the County at the time of map preparation in a report and subsequent supplement. The mapping relied upon data provided by the U.S. Census of Agriculture, Oregon State University, USDA and Crook and Jefferson County OSU Extension offices. The report noted that the definition of a high value crop area "takes into account all factors relevant to the *consistent* production of crops with a minimum gross value of \$1,000 per acre per year." (Emphasis in the original.) The report shows that the "unique factors such as the high elevation, high risk of frost, short growing season and relatively unproductive soil profiles within the Powell Butte area limit farmers' ability to cover the costs of production and therefore render the area unsuitable for consistent High Value Crop production."

Appellants during testimony before the planning commission cited advertising and data to the effect that the value of hay will likely exceed \$1,000 per acre in 2008 based on current pricing. That may be so, although data supporting this contention will lag. A one-year anomaly, however, does not a consistent trend make. The best data before the Commission is at R 200, and consists of a chart prepared by consultant Bruce Andrews showing that the value of alfalfa hay during the period 2002 to 2007 consistently averaged under \$500 per acre. A reasonable decision maker could have and likely did rely on that evidence to conclude that the hay, at this time, is not a high value crop, and even had the decision-makers on the Commission determined otherwise, that would not have relieved them of the obligation to evaluate the siting criteria for the proposed development solely within the context of the adopted overlay map. The concept that a mapping process must precede a determination of viability for high value crop production was previously confirmed by LUBA in Boyer v. Baker County, 35 Or LUBA 223 (1998), wherein LUBA concluded: "The statutory order of operations for confirming that a destination resort overlay amendment meets the requirements of Goal 8 and ORS 197.435(2) is to first map the concentrations of commercial farms and then determine which farms could produce the requisite \$1,000 per-acre per-year yield. "Appellants request of this court is to do the reverse: to determine the viability of high value crop production on an acre-by-acre basis, and then, based on that analysis, to add property to or delete property from a previously adopted map.

The Court agrees with Applicant that ORS 197.455(1) applies to the mapping process for destination resorts and is not to be applied to individual destination resort applications on land already mapped as eligible for destination resort development. The Court is also persuaded by Applicant's evidence, which is consistent with the analysis in the CCCP, that hay and alfalfa are not "high-value" crops with a minimum gross value of \$1,000 per acre per year.

## Powell Butte Agreement

Some members of the public contend that a destination resort cannot be sited on the subject property because of a mediated settlement agreement ("Powell Butte Agreement") associated with the appeal of *Burke v. Crook County*, LUBA Nos. 98-200, 98-221, 98-222,

98-223, 98-224, 98-225, 99-037, 99-038, 99-039, 99-040 and 99-041. Burke was an appeal of a series of land use decisions called "the exceptions ordinances" and the "non-resource ordinances." It adopts certain policies as part of the County's comprehensive plan, including Policy 2, which provides, "The County will not initiate additional exceptions or nonresource designations within the Powell Butte Study Area until the next periodic review," and Policy 3, which provides, "The land north of Highway 126 shall be retained as exclusive farm use as that land is composed of large parcels and contains less rural residential development than the area south of the highway."

When the County adopted the destination resort map in Ordinance No. 17, Amendment 52 on May 22, 2002, it found as follows:

"The County Court finds that the Mutual Settlement Agreement entered into by the County to settle LUBA Case Nos. 98-220, 222, 223, 224, 225 and 99-037, 038, 039, 040, 041 does not prohibit the county from implementing Goal 8. The Settlement Agreement governs the reclassification of certain lands within the Powell Butte Study Area. Aside from the zoning map and code amendments approved pursuant to the Agreement, the Agreement prohibits additional exceptions or nonresource designations within the Powell Butte Study Area except in connection with periodic review. However, the Agreement specifically allows the continuation and establishment of uses that are permitted outright or conditionally on resource land. Destination resorts are permitted as a condition use on EFU land pursuant to ORS 215.283(2)(t). Furthermore, Goal 8 and ORS 197.450 specifically authorize destination resorts on resource lands without an exception to Goals 3, 4, 11, or 14. All property underlying the Destination Resort Overlay will maintain its current zoning designation, including properties with resource designations." (Emphasis added).

Applicant has properly relied on the County destination resort eligibility map, which was adopted in May 2002. Opponents' contention that the Powell Butte Agreement precludes destination resort development on the subject property is a collateral attack on the final land use decision to adopt the map. The attack is not timely and must be rejected.

(3) Development shall include meeting rooms, restaurants with seating for at least 100 persons, and a minimum of 150 separate rentable units for overnight lodging, oriented toward the needs of visitors rather than area residents. However, the rentable units may be phased in as follows:

The resort is planned to contain a restaurant and meeting rooms with seating for a minimum of 100 people. These facilities will be located within the "Core Area" shown on the Development Plan map, App. Ex. 3. Applicant explains that the eating and meeting facilities will be oriented toward the needs of visitors rather than area residents. These facilities will be open for public use.

(a) A total of 150 units of overnight lodging shall be provided as follows:

The resort will contain a minimum of 150 units of overnight lodging, as that term is defined in CCC 18.116.030(5):

"Overnight lodgings" means permanent, separately rentable accommodations which are not available for residential use. Overnight lodgings include hotel rooms, lodges, cabins and timeshare units. Individually owned units may be considered overnight lodgings if they are available for overnight rental use by the general public for at least 45 weeks per calendar year through a central reservation and check-in service. Tent sites, recreational vehicle parks, manufactured dwellings, dormitory rooms and similar accommodations do not qualify as overnight lodgings for the purpose of this definition.

Applicant has not finalized the make-up and allocation of its overnight lodging units. To fulfill the overnight accommodation requirements, the resort will build a combination of standalone units, called "Casitas," together with multi-family structures with individual "lock off" rooms. Applicant anticipates the development of 154 stand-alone Casita units, each of which will be approximately 400 square feet in size.

In addition to the Casita units, Applicant will develop a number of multi-family and/or townhome structures, each offering a number of separate rentable overnight units. Within these structures, Applicant will utilize the lock-off concept, where an overnight lodging structure is divided into multiple units that can be separately rented. Each such structure will provide several separately rentable units to meet the overnight accommodation requirements of the destination resort code. A number of area resorts employ the lock-off concept. Lock-offs provide more overnight lodging units, with less impact on the landscape.

On appeal to the Court, the Coalition stated concerns about the definition of "Casitas" and "lock off rooms" and how they will be counted toward overnight accommodations. The application of this standard has been an issue in administering previous decisions related to destination resort approvals. At oral argument on December 3, 2008, Applicant represented that all overnight units will be at least 400 square feet and will include a self-contained bath. Any such units should have a kitchenette, including a sink for food preparation (in addition to the bathroom sink); either a microwave oven or a hot plate; and a refrigerator.

The overnight lodging units may also include some individually owned units, subject to the rental availability requirements stated in CCC 18.116.030(5). Applicant will build (or financially assure, to the extent financial assurances are permitted by law) enough overnight lodging units to meet the 150-unit minimum standard and to maintain the required 2:1 ratio.

(i) At least 75 units of overnight lodging, not including any individually owned homes, lots or units, shall be constructed or guaranteed through surety bonding or equivalent financial assurance prior to the closure of sale of individual lots or units.

ORS 197.445(4)(b)(B) now requires that in Eastern Oregon, including Crook County, at least 50 units of overnight lodging must actually be constructed prior to the closure of sale of

individual lots or units. Applicant shall construct these units during the first phase of development. The 25 units remaining of the first increment of 75 units shall be constructed or guaranteed through surety bonding or equivalent financial assurance prior to the closure of sale of individual lots or units.

(ii) The remainder shall be provided as individually owned lots or units subject to deed restrictions that limit their use to overnight lodging units. The deed restrictions may be rescinded when the resort has constructed 150 units of permanent overnight lodging as required by this subsection.

The remaining 75 lots or units shall be owned by Applicant, Applicant's successors and assigns, sold as timeshares or sold as individually owned lots or units subject to deed restrictions that limit their use to overnight lodging units, subject to rescission when the resort has constructed 150 units of permanent overnight lodging.

(b) The number of units approved for residential sale shall not be more than two units for each unit of permanent overnight lodging provided under subsection (3)(a)(i) of this section.

Applicant will maintain the required 2:1 ratio during the life of the resort, documenting ongoing compliance prior to tentative subdivision plan approval for each phase of resort development.

(c) The development approval shall provide for the construction of other required overnight lodging units within five years of the initial lot sales.

ORS 197.445(4)(b)(C) requires that after the construction of the first 50 overnight units, at least 50 of the remaining 100 overnight lodging units required to meet the statutory minimum of 150 units must be constructed or guaranteed through surety bonding or equivalent financial assurance within five years of the initial lot sales. The remaining 50 overnight lodging units required by statute must be constructed or guaranteed through surety bonding or equivalent financial assurances within 10 years of the initial lot sales.

Reading the statute together with the Crook County Code, and implementing the code where it requires more than the statute, at least 50 units of overnight lodging must be constructed prior to the closure of sale of the first individual lot or unit. At least 100 more units of overnight lodging must be constructed within five years of the sale of the initial lot sales. Under ORS 197.445(b)(F), if Applicant guarantees the construction of any of the required 150 units through surety bonding or other equivalent financial assurance, these overnight lodging units must be constructed within four years of the date of the execution of the surety bond or other equivalent financial assurance.

(4) All required developed recreational facilities, key facilities intended to serve the entire development, and visitor-oriented accommodations shall be physically provided or guaranteed, proportional to the extent of the phased development, pursuant to CCC 18.160.040 through surety bonding or equivalent financial assurances prior to closure of sale of individual lots or units. In phased developments, developed recreational facilities and other key facilities intended to serve a particular phase shall be constructed prior to sales in that phase or

guaranteed through surety bonding. Nothing in this subsection shall be interpreted to require the construction of all approved phases of a destination resort; provided, that the destination resort as developed complies with the minimum development requirements of subsections (3), (5), and (7) of this section.

This criterion distinguishes between facilities and accommodations intended to serve the entire development and facilities intended to serve a particular phase. Those for the entire development must be physically provided or guaranteed "proportional to the extent of the phased development." An estimate of the total cost of the facilities and accommodations intended to serve the entire development is provided below.

The proportionality component of this criterion will be satisfied because all of the required developed recreational facilities, key facilities intended to serve the entire development, and visitor-oriented accommodations will be constructed in the first phase.

(5) At least \$7,000,000 shall be spent on improvements for on-site developed recreational facilities and visitor-oriented accommodations exclusive of costs for land, sewer and water facilities, and roads. Not less than one-third of this amount shall be spent on developed recreational facilities. Spending required under this subsection is stated in 1993 dollars. The spending required shall be adjusted to the year in which calculations are made in accordance with the United States Consumer Price Index.

The proposed recreational facilities will include an 18-hole golf course and associated golf complex facilities, various recreational facilities, hiking/running trails, a swimming pool, and similar recreational amenities. A list of the potential recreational uses/amenities that may be developed at the resort is set forth in App. Ex. 8.

The average Consumer Price Index for urban households, as compiled by the U.S. Department of Labor Bureau of Labor Statistics, indicates that \$7 million in 1993 dollars has the same buying power as \$10,225,329 in year 2008. Not less than one-third of this amount (\$3,408,443) must be spent on "developed recreational facilities" as that term is defined in CCC 18.16.030(2). Applicant will exceed these minimum investment standards.

The following construction cost estimates are based on unit prices taken from Applicant's past construction projects together with an analysis of data developed at similar resort facilities in Central Oregon. The following cost estimate demonstrates that Applicant will exceed the requirements for total expenditures on required resort facilities. Applicant also retains the flexibility to refine the type of amenities and commercial facilities provided within the project.

#### ESTIMATED TOTAL COST

RES	ORT	FA	CIL	<b>ITIES</b>

Eating Facilities for 100 Persons Minimum	\$800,000
Meeting Space for 100 Persons	\$400,000
154 "Casita" Units (overnight accommodations)	\$9,240,000
96 lock off multi-family units (overnight accommodations)	\$10,560,000

#### RESORT FACILITIES SUB-TOTAL:

\$21,000,000

### RECREATIONAL/OPEN AMENITIES SUB-TOTAL

18-Hole Golf Course, including Driving Range	\$4,000,000
Golf Complex and Maintenance	\$1,000,000
Trail System	\$300,000
Swimming Pool/Jacuzzi	\$200,000

#### RECREATIONAL AMENITIES SUB-TOTAL:

\$5,500,000

#### TOTAL ESTIMATED DEVELOPMENT COSTS:

\$26,500,000

The above-stated minimum construction cost estimate for eating facilities and meeting space is based on the construction of an 8,000 square foot conference facility that will provide sufficient space for both a 4,000 square foot meeting facility and a 4,000 square foot dining facility. Each facility will be designed to accommodate a minimum of 100 persons on site. Applicant projects a \$150/per-square-foot construction cost figure for this eating/meeting facility. The total cost of such facility is estimated at \$1.2 million.

The above-stated minimum construction cost estimate for overnight accommodation units is as follows. Applicant intends to construct 154 stand alone Casita units that will be approximately 400 square feet in size. The total square footage of Casita units is projected as 61,600 square feet. Applicant believes these units can be constructed for a price of \$150 per square foot, for a total cost of \$9,240,000. In addition to the Casita units, Applicant anticipates the construction of 32 attached multi-family townhome units. Each of these 32 multi-family units will have three different lock-off units, for a total of 96 additional overnight accommodation units. The 32 multi-family units are expected to be a minimum of 2,200 square feet in size for a total square footage of 70,400 square feet. Applicant anticipates construction of such units for a price of \$150 per square foot, for a total investment of \$10,560,000.

The golf course construction cost estimate includes clearing and grubbing, rough grading, green and tee construction, bunker drainage, bunker sand, finish grading, seeding and cart paths. The construction cost estimate is based on golf course construction experience as well as an analysis of the costs incurred in the construction of other Central Oregon resort projects.

The total estimated cost of \$26,500,000 far exceeds the minimum investment requirement of \$10,225,329. In addition, the estimate of \$5,500,000 for recreational facilities

far exceeds the minimum investment required of \$3,408,443.

(6) Commercial uses are limited to those listed in CCC 18.116.070(8). Such uses must be internal to the resort, and are limited to the types and levels of use necessary to meet the needs of visitors to the resort. Industrial uses of any kind are not permitted.

The potential commercial uses that may be developed at the resort are listed in App. Ex. 9. These uses are consistent with CCC 18.116.070(8). They will be located in the areas designated for Core Area, Core Area/Single Family, Ancillary Resort Uses, and Ancillary Resort Uses as Allowed in Easements on the Development Plan map, App. Ex. 3. All commercial uses will be internal to the resort, limited to the types and levels of use necessary to meet the needs of resort visitors. No industrial uses are proposed.

The Coalition objects that the commercial uses will be of a nature other than those intended to serve the resort community. The Commission specifically addressed this concern in what is now Condition 7, which, by incorporating reference to CCC18.116.070(8), limits commercial services to those "necessary to meet the needs of visitors to the resort." Absent knowing what specific businesses will someday be recruited to the proposed development, it is unclear how the Coalition would have the Court or the Commission further address this condition to provide more specificity or assurance.

(7) At least 50 percent of the site shall be dedicated to permanent open space, excluding yards, streets, and parking areas.

As depicted on the Development Plan map, App. Ex. 3, and the Open Space Management Plan, App. Ex. 15, over 50 percent of the site, including the area devoted to the golf courses, will be maintained as open space throughout the life of the resort. Compliance with this standard will be continuously documented prior to approval of each subdivision plat. Recorded deed restrictions will ensure that open space within the resort is protected in perpetuity.

(8) If the site includes a resource site designated on the county's Goal 5 inventories as significant, the resource site shall be protected in accordance with the adopted Goal 5 management plan for the site. Sites designated for protection pursuant to Goal 5 shall also be preserved by design techniques, open space designation, or a conservation easement sufficient to protect the resource values of the resource site. Any conservation easement created pursuant to this subsection shall be recorded with the property records of the tract on which the destination resort is sited prior to development of the phase of which the resource site is a part.

According to County staff, the resort property does not contain any inventoried Goal 5 resources. The Oregon Department of Fish and Wildlife ("ODFW") has confirmed (on the County comment form submitted as page 4 of the destination resort application cover sheet), that there are no wildlife overlays or designated wildlife ranges on the property. There is also no Sensitive Bird Habitat area anywhere on the property.

(9) Riparian vegetation within 100 feet of natural lakes, rivers, streams and designated significant wetlands shall be retained as set forth in CCC 18.124.090

The dry terrain indicates there are no natural lakes, rivers, streams or designated wetlands on the subject property. However, as noted above, a COID irrigation canal crosses a portion of the future resort site. The canal is used to convey water during the course of the regular irrigation season (April through October). There is no "riparian vegetation," and there are no apparent areas of designated wetlands within or adjacent to the canal. If any wetlands are discovered, Applicant shall mitigate for the loss of wetlands through enhancement of the remaining wetlands (if any) and the creation of new wetlands at a different location.

(10) The dimensional standards otherwise applicable to lots and structures in underlying zones pursuant to Chapters 18.16 through 18.112 and 18.120 through 18.140 CCC shall not apply within destination resorts. The planning commission shall establish appropriate dimensional standards during final development plan review.

The applicant proposes the dimensional standards set forth in App. Ex. 18. As permitted by this criterion, the final dimensional standards will be worked out during development plan review.

- (11) Except where more restrictive minimum setbacks are called for, the minimum setback from exterior property lines, excluding public or private roadways through the resort, for all development (including structures and site-obscuring fences of over three feet in height but excepting existing buildings and uses) shall be as follows:
- (a) Two hundred fifty feet for commercial development listed in CCC 18.116.070, including all associated parking areas;

Applicant shall comply with this standard.

(b) One hundred feet for visitor-oriented accommodations other than single-family residences, including all associated parking areas;

Applicant shall comply with this standard.

(c) Twenty-five feet for above-grade development other than that listed in subsections (11)(a) and (b) of this section;

Applicant shall comply with this standard.

(d) Twenty-five feet for internal roads;

Applicant shall comply with this standard.

(e) Twenty-five feet for golf courses and playing fields;

Applicant shall comply with this standard.

(f) Twenty-five feet for jogging trails, nature trails and bike paths where they abut private developed lots, and no setback where they abut public roads and public lands;

Applicant shall comply with this standard.

(g) The setbacks of this section shall not apply to entry roadways, landscaping, utilities and signs.

Compliance with these setbacks shall be documented during each phase of subdivision or site plan review. As explained below in response to the approval criteria, additional setbacks have been imposed where appropriate to ensure compatibility with surrounding uses.

- (12) Alterations and nonresidential uses within the 100-year floodplain and alterations and all uses on slopes exceeding 25 percent are allowed only if Applicant submits and the planning commission approves a geotechnical report that demonstrates adequate soil stability and implements mitigation measures designed to mitigate adverse environmental effects. Such alterations and uses include, but are not limited to:
- (a) Minor drainage improvements which do not significantly impact important natural features of the site;
- (b) Roads, bridges, and utilities where there are no feasible alternative locations on the site; and
- (c) Outdoor recreational facilities, including golf courses, bike paths, trails, boardwalks, picnic tables, temporary open sided shelters, boating facilities, ski lifts, and runs.

The general physical characteristics of the site are depicted in the series of maps in App. Ex. 4. The App. Ex. 4 maps include easements (App. Ex. 4.1), year 2005 aerial photograph of the site (App. Ex. 4.2), a map of adjacent properties (App. Ex. 4.3), wildlife migration zone map (App. Ex. 4.4), 100-year floodplain (showing floodplains) (App. Ex. 4.5), elevation/topography analysis (App. Ex. 4.6) and slope analysis (App. Ex. 4.7).

The App. Ex. 4.5, "100 Year Floodplain," is based upon standard Federal Emergency Management Association ("FEMA") mapping. As App. Ex. 4.5 demonstrates, the 100-year floodplain is mapped along a corridor that parallels the COID Irrigation ditch as it traverses the

subject property. Most, if not all, of the area in the 100-year floodplain falls within areas of right-of-way held by COID. Bridges, canal crossings, pathways and the golf course amenities are the only improvements anticipated in this area. Applicant shall comply with all applicable legal and permitting requirements to the extent any structures are constructed in areas impacted by the floodplain.

With the exception of two minor rock ridgelines, no portion of the site contains slopes in excess of 25 percent. One of the ridgelines runs parallel to the irrigation canal in the southern portion of the resort. Another rock ridge is located in the northeastern portion of the subject property and is largely encumbered by the BPA transmission line easements (discussed in greater detail below). The Slope Analysis map, App. Ex. 4.7, shows existing slopes on the subject property and the two rock ridgelines.

The Coalition's request for assurances that development will not be allowed on slopes of greater than 25 percent or within the floodplain of the COID waterway without a geotechnical report is a reasonable request to ensure development in accordance with CCC 18.116.040 (12). However, "blob diagrams" in a preliminary concept plan do not provide the knowledge needed to know when, where and whether such development might occur. Prior to tentative plan approval of development on a slope of greater than 25 percent or within the floodplain of the COID, Applicant shall be required to prepare and submit for review by the Commission a geotechnical report demonstrating adequate soil stability and proposing any measures needed to mitigate adverse environmental impacts.

The criteria in CCC 18.116.040 are met.

## 18.116.080 Application procedures and contents.

(1) Before submitting a development plan for approval, an applicant proposing a destination resort shall conduct a preapplication conference with the planning department to obtain general information, guidelines, procedural requirements, advisory opinions, and technical assistance for the project concept.

Applicant and its representatives discussed the subject application with the planning director and the County Road Department on several occasions. Applicant submitted an earlier application in July 2007, which was subsequently withdrawn. Prior to this submittal, a preapplication meeting was held on July 3, 2007, which suffices for this submittal. The signed preapplication verification is part of the destination resort application cover sheet, page 5. In response to comments provided by the County Planning and Road Departments, Applicant submitted a new application.

(2) Following a preapplication conference, Applicant shall submit a development plan for review by the planning commission. Fifteen copies of the development plan shall be submitted to the planning department along with a filing fee set by the Crook County court to defray costs incidental to the review process.

Applicant complied with the applicable procedural requirements in the filing and

submission of this application.

The Coalition argues that the Commission erred in finding the application complete, arguing that the record does not contain evidence that a "new" \$25,000 filing fee was paid. CCC18.116.080 (2) provides that the purpose of the paying a fee is to "defray costs incidental to the review process." The record is clear that a fee was paid in conjunction with filing of a previous destination resort application for this same tract of land. When that application was withdrawn, the fee was not refunded and instead was applied to the current application. This is an accounting and bookkeeping issue, not an issue of substantive due process.

The substantive information contained within the application was adequate for the Commission to make a judgment regarding whether the application could meet approval criteria. LUBA has long held that where information has been omitted from an application and the omission does not preclude the jurisdiction's ability to apply the approval criteria, there is no basis for remand or reversal. Caster v. City of Silverton, 54 Or LUBA 441 (2007), Douglas v. City of Salem, 53 Or LUBA 567 (2007), Venable v. City of Albany, 33 Or LUBA 1 (1997), Le Roux v. Malheur County 32 Or LUBA (1996), Champion v. City of Portland, 28 Or LUBA 618 (1995), Roth v. Jackson County, 38 Or LUBA 894 (2000).

## (3) The development plan shall contain the following elements:

### (a) Illustrations and graphics to scale, identifying:

# (i) The location and total number of acres to be developed as a destination resort;

The general location of the Crossing Trails Resort is depicted on the Context Map (vicinity map), App. Ex. 2. The Context Map locates the property relative to the cities of Prineville, Redmond and Bend and to other previously approved Goal 8 destination resort projects in Crook and Deschutes counties. The maps of App. Ex. 4 illustrate the location of the resort property in relation to the local street system in the vicinity of the Powell Butte rural community. The resort property borders SW Wiley Road, which is to the south and SW Parrish Lane, which is to the west. The attached Development Plan map, App. Ex. 3, depicts the boundaries of the 580-acre resort parcel and the general location of all proposed resort uses, including residential, commercial, recreational uses and open space. The Development Plan map illustrates the general location of single family residential units, overnight accommodations, open space, core areas within the resort and ancillary resort uses. Areas of designated "open space" will include the golf course and additional common areas. Commercial uses will be located within the "Core Area, Core Area/Single Family, Ancillary Resort Uses, and Ancillary Resort Uses as Allowed in Easements" illustrated on App. Ex. 3.

# (ii) The subject area and all adjacent tax lots, with existing zoning;

The Crossing Trails Resort property is located north of Oregon Highway 126 in the vicinity of the SW Parrish Lane/Highway 126 intersection. The property is approximately 6 miles west of downtown Prineville and 10 miles east of Redmond. The subject property is

surrounded by privately owned lands on all sides, with the exception of one parcel at the northeast corner, which is owned by Crook County.

The subject property and all adjacent tax lots are depicted on the Adjacent Property Owners map, App. Ex. 4.3. This map shows the location, size and ownership of all properties that abut the proposed resort development. The subject property and surrounding properties are zoned Exclusive Farm Use, EFU-3 (Powell Butte Area), as depicted on the Crook County zoning map. The subject property is also zoned with Crook County's Destination Resort Overlay Zone, shown on App. Ex. 7. This overlay zone includes all of the subject property as well as the adjacent properties to the north, west and east, and four parcels to the south.

# (iii) Types and general location of proposed development and uses, including residential and commercial uses;

The types and general location of proposed land uses within the resort project are depicted on the Development Plan map, App. Ex. 3. The Development Plan map depicts the general location of residential housing units, overnight accommodations, commercial areas, maintenance facilities, infrastructure and open space. The Development Plan map also depicts the general location of the looped road system that will serve the resort. The resort will be developed with relatively low density residential development (0.77 dwelling units/gross acre) centered upon an 18-hole championship golf course. See Resort Unit Summary, Density Calculations and Open Space Area calculations, App. Ex. 5.

Commercial activities developed within the resort boundaries will be located within the resort's Core Area shown on the Development Plan map, App. Ex. 3. Resort infrastructure will be located within the designated core areas and the Ancillary Resort Use area depicted on the map. App. Ex. 9 contains a list of the specific types of commercial uses that may be developed in the resort. Commercial uses will be located in the designated areas ("Core Area, Core Area/Single Family, Ancillary Resort Uses, and Ancillary Resort Uses as Allowed in Easements") and will be situated near the primary resort entry on SW Wiley Road. The specific mix and location of commercial uses developed within the resort will be subject to market forces and demand. Any commercial uses developed at the resort will be subject to additional site plan review and approval.

The proposed single-family residential units and overnight lodging units are dispersed throughout the property, to allow resort residents and guests to enjoy the open space amenities of the project. An area designated exclusively for overnight lodging will be located on the eastern portion of the subject property, as depicted on the Development Plan map, App. Ex. 3. A second area, containing a mix of single-family and overnight lodging units, is located in the southwest corner of the property, adjacent to SW Parrish Lane. The golf course and associated recreational amenities will be located in the areas depicted as Open Space on the Development Plan. The golf course will enhance the value of residential lots and provide a recreational element critical to the financial success of the resort. It will be open to public play.

The resort property will be unified by the interconnected looped road system shown on the Development Plan map, App. Ex. 3. The application materials contain a Major Road Plan, App. Ex. 20, which illustrates the location of major roadways, as well as access points to the

resort. The primary resort entry will be located on SW Wiley Road at the location specified in App. Ex. 20. A secondary entry point, for emergency access only, will be located on SW Parrish Lane. An employee and visitor entry is proposed east of the main entry on SW Wiley Road. The looped road system and multiple access points will provide the resort with multiple access and evacuation routes in the case of fire or emergency.

The resort project will also contain a network of pedestrian trails. The trail system will parallel the developed road system contained on App. Ex. 3. The trail system will facilitate and encourage non-motorized transportation to all destinations within the boundaries of the resort. It will include small interpretive sites intended to highlight the natural vegetation of the Central Oregon high desert environment. The trail system will provide access to recreational amenities within the resort, as well as the public clubhouse, resort dining facilities and commercial uses developed within the resort boundary. The trail network is expected to be a significant recreational amenity at the resort.

The Development Plan map is conceptual in nature. It is subject to evolution and refinement through subsequent land use proceedings, as market demand and other factors dictate the final design. As with all resort developments, the economics of the project demand that Applicant construct the Crossing Trails Resort in phases over many years, with the actual development schedule responsive to market demand. The general location of the nine resort phases is illustrated in a diagram on App. Ex. 3.

### (iv) A general depiction of the characteristics of the site, including:

### (A) Goal 5 resources on the county's comprehensive plan inventory;

According to the Crook County Comprehensive Plan Goal 5 inventory, there are no inventoried sites on the property. The County's Goal 5 Resource material confirms that there are no Goal 5 resource sites.

# (B) Riparian vegetation within 100 feet of natural lakes, rivers, streams, and designated significant wetlands;

No natural lakes, rivers, streams or designated significant wetlands are believed to exist on the subject property. The property is bisected by an irrigation canal operated by the Central Oregon Irrigation District ("COID"). The irrigation canal is in operation during the irrigation season from April to October of each year. An irrigation pond is located on the southern boundary of the subject property adjacent to the canal and SW Wiley Road. The year 2005 aerial photograph, App. Ex. 4.2, depicts the current location of both the irrigation pond and canal. There are no apparent areas of riparian vegetation associated with the irrigation canal or pond.

# (C) Water areas, including streams, lakes, ponds and designated significant wetlands;

The subject property is bisected by the COID irrigation canal. The property also contains an irrigation pond that has been used for the delivery of irrigation water. The location

of these features is depicted on the App. Ex. 4.4 aerial photograph. There are no apparent areas of designated wetlands on the subject property.

## (D) Boundaries of the 100-year floodplain, if present on the site;

The Floodplain Analysis map, App. Ex. 4.5, depicts the location of the 100-year floodplain as it affects the subject property. App. Ex. 4.5 is based on standard FEMA mapping. The 100-year floodplain is mapped along a corridor that parallels the COID Irrigation ditch as it traverses the subject property. Much of the area that falls within the 100-year floodplain is encumbered by the canal easement held by COID. The area mapped as floodplain is depicted as "canal" on the Development Plan map, App. Ex. 3. Applicant does not propose to erect any buildings, residences or similar above-ground structures within areas mapped for the 100-year floodplain. Bridges, canal crossings, pathways and the golf course are the only amenities anticipated in this area. Applicant will comply with all applicable legal and permitting requirements to the extent any structures or previously described uses are constructed within areas subject to the 100-year floodplain.

#### (E) Slopes exceeding 25 percent;

A Slope Analysis covering the subject property is attached as App. Ex. 4.7. App. Ex. 4.7 identifies slopes on the property that exceed 25 percent, which are found in two primary areas on the subject property. One is a minor rock ridgeline located parallel to the COID irrigation ditch in the southern portion of the property. The majority of this ridgeline will be utilized as open space. Areas of steeper slopes are also contained in rock ridges found in the northeast corner of the subject property. Most of these areas are depicted as open space on the Development Plan map, App. Ex. 3. A significant portion of this area is also encumbered by the electric transmission line easements on the property.

#### (F) Existing topography.

The natural topography of the site is relatively flat with a gentle slope rising approximately 280 feet from the southwest to the northeast corners of the site. Site topography is depicted on the Elevation/Topography Analysis, App. Ex. 4.6.

With the exception of the rock ridgelines discussed above, slopes on the site do not exceed 25 percent. The southwest portion of the site is relatively flat. The northern portion is very flat with the typical natural slopes of less than two percent. Nearly one-third of the property contains areas of meadow grass, while the remainder is vegetated with juniper and other low-growth vegetation common to Central Oregon.

The NRCS mapping of soils in Crook County, App. Ex. 31, depicts the following soil types within the boundaries of the resort property:

- Stukmond-Lickskillet- Redmond Complex (type 143)
- Redmond-Stukmond Complex (type 144)

#### • Searles- Lickskillet complex (type 162)

None of the designated soil types found on the subject property are considered to be prime, unique or high value. See App. Ex. 31. The lack of quality soils within the resort property rendered the site eligible for the Destination Resort overlay when the County adopted its overlay map.

(v) Proposed methods of access to the development, identifying the main vehicular circulation system within the resort and an indication of whether streets will be public or private;

The Development Plan map, App. Ex. 3, shows the main internal road system serving the proposed resort, as well as each of the proposed points of resort access. The resort development is served with a loop road system of interconnected private roadways. This will provide access to residential units, recreational amenities and resort infrastructure. The internal road system is designed to promote the safe and efficient circulation of vehicle traffic inside the resort. The resort will have two access points on SW Wiley Road that will distribute project traffic to SW Wiley Road en route to Oregon Highway 126. Resort traffic going to Prineville will also use SW Wiley Road. An emergency access route will be located on SW Parrish Lane, in the location depicted on the attached Development Plan map. All of the roads within the resort will be private and will be maintained by the developer and the resort homeowners.

#### (vi) Major trail systems;

The Development Plan map, App. Ex. 3, depicts the looped road system that will serve the proposed resort development. Applicant will construct and maintain a trail system that parallels the developed road system. Resort trails will be designed to provide pedestrian, bicycle and non-motorized access throughout the resort. Each resort lot, as well as all units of overnight accommodations, will be provided with access to the internal resort trail system. Trail systems within the resort will provide access to areas of open space and recreational amenities offered by the resort. In addition, the resort trail system will provide pedestrian, bicycle and non-motorized access to the core resort area depicted on the Vehicle Circulation and Trail Plan, App. Ex. 20. The trail network will encourage walking and biking to the primary resort destinations, including the public clubhouse, dining facilities, and other commercial uses. The trail network should be a significant recreational amenity at the resort.

(vii) The approximate location and number of acres proposed as open space, buffer area or common area. Areas proposed to be designated as "open space," "buffer area" or "common area" should be conceptually illustrated and labeled as such;

A minimum of 290 acres of the 580-acre resort will be maintained as open space. This acreage includes the area devoted to the golf courses, trails, buffers within the external setbacks, and natural common areas. The land devoted to open space is conceptually depicted on the Development Plan map, App. Ex. 3, and shown on the Open Space Plan, App. Ex. 15.

Because the exact boundaries of the space areas are subject to change as the resort development progresses, Applicant will document compliance with the minimum open space standard prior to approval of the subdivision plat for each phase.

# (viii) List of proposed recreational amenities and approximate location.

The resort will contain an 18-hole championship golf course and a variety of associated recreational amenities for landowners and guests, including the trail system described above. A list of potential recreational uses is attached as App. Ex. 8. The areas contemplated for recreational facilities and golf fairways are depicted on the Development Plan map, App. Ex. 3.

- (b) A conceptual water and sewer facilities master plan for the site, including a master plan study prepared by a professional engineer certified in the state of Oregon, describing:
  - (i) An estimate of water demands for the destination resort at maximum build-out;
- (ii) Availability of water for estimated demands at the destination resort, including (1) identification of the proposed source; (2) identification of all available information on ground and surface waters relevant to the determination of adequacy of water supply for the destination resort; (3) a copy of any water right application or permit submitted to or issued by the Oregon Water Resources Department (OWRD), including a description of any mitigation measures proposed to satisfy OWRD standards or requirements;
- (iii) A water conservation plan including an analysis of available measures, which are commonly used to reduce water consumption. This shall include a justification of the chosen water conservation plan. The water conservation plan shall analyze a wastewater disposal plan utilizing beneficial use of reclaimed water to the extent practicable. For the purposes of subsection (3)(b) of this section, beneficial uses may include, but are not limited to:
  - (A) Agricultural irrigation or irrigation of golf courses and greenways;
  - (B) Establishment of artificial wetlands for wildlife habitation;
  - (C) Groundwater recharge.

Applicant provided a Conceptual Water and Sewer Facilities Master Plan ("Master Plan") as part of the application materials. App., App. Ex. 11. The plan was prepared by J. Rob von Rohr, PE, and Jeffrey Fuchs, PE, registered professional engineers with the consulting firm of Bussard Williams, in Bend, Oregon, and complies with the requirements of (i)-(iii) above.

As required under subsection (i), the Master Plan includes an estimate of water demand for various types of water uses at the resort at maximum build-out. That demand is estimated to be 802 acre-feet per year. This estimate includes water for a variety of proposed

resort uses including single family residential, overnight lodging, commercial facilities, golf course irrigation, landscape irrigation and small ponds and water features. App. Ex. 11, Table 1.

As required under subsection (ii), the Master Plan describes the water sources available to meet the estimated demand. Potable water will be supplied by Avion Water Company (Avion) to serve all residential and commercial uses, including residential landscape irrigation, and required fire flows. Avion is a privately-owned public utility regulated by the Oregon Public Utility Commission. The application includes, as App. Ex. 13, a letter from Avion confirming its commitment to serve the proposed project. Non-potable water for golf course and common area irrigation, ponds and water features, and miscellaneous related uses will be provided under existing surface water rights appurtenant to the property and delivered by Central Oregon Irrigation District (COID). A small portion of the COID water rights will also be used to provide a temporary source of water for project construction. A summary of the COID water rights appurtenant to the property is included with App. Ex. 11, Appendix E. The combination of Avion and COID water, provided under existing water rights, is sufficient to meet maximum project demands at full build-out. No new water rights will be required for the project.

As required under subsection (iii), the Master Plan includes a Water Conservation Plan component that analyzes the available measures commonly used to reduce water consumption and justifies the measures chosen at this stage of project planning. Selected conservation measures include: highly efficient golf course irrigation technologies and irrigation sprinkler systems; lining and designing storage ponds to minimize evaporation and seepage losses; efficient water conveyance systems; beneficial use of treated wastewater; use of individual water meters; use of drought resistant and low-water use landscaping; low water use plumbing fixtures, use of conditions, covenants & restrictions ("CC&Rs") to implement conservation measures; and public education and outreach. The Water Conservation Plan also analyzes a wastewater disposal plan utilizing the beneficial use of reclaimed water to the extent practicable. Additional details related to effluent disposal are included in the Sewer Facilities portion of the Master Plan.

### (c) A conceptual site drainage plan;

The conceptual site drainage plan is described in Applicant's Erosion Control and Stormwater Management Program that was included as App. Ex. 21.

## (d) A solid waste management plan;

Applicant expects to contract for solid waste collection and disposal with an authorized Crook County franchise hauler, such as Prineville Disposal, which has already offered its services. *See* App. Ex. 23.

## (e) An open space management plan, including:

# (i) An explanation of how the open space management plan will ensure that at least 50 percent of the resort is dedicated to open space at all times;

The Open Space Plan, App. Ex. 15, shows the proposed location of open space. The final location, acreage and dimensions of any open space area are subject to limited refinement during the process of developing a final development plan. All of the open space areas shown on the Open Space Plan shall be designated as such on the plat and included in the legal description of the property appended to the CC&Rs.

As set forth in the draft CC&Rs, App. Ex. 24, title to or a legal interest in the common areas in each phase will be conveyed to a homeowners' association prior to or concurrently with the conveyance to an owner of the first lot in that particular phase. The board of the homeowners' association may transfer some common area to a homeowner or the declarant, but only for the purposes of small adjustments not to exceed 2,000 square feet. The CC&Rs provide that every homeowner shall have a non-exclusive right and easement for the ingress, egress, use and enjoyment of the common areas, which shall be appurtenant and shall pass with the title to every lot, subject to stated restrictions. The easements and the rights to use of the common areas shall exist regardless of whether they are also set forth in individual grant deeds to lots.

The CC&Rs provide that, at all times, at least 50 percent of the property shall be designated as open space, and make that requirement a covenant and equitable servitude, which cannot be amended without the consent of the County, which runs with the land in perpetuity, and which is for the benefit of all of the property initially included in or annexed to the resort, each homeowner, the declarant, the homeowners' association, and any of the golf clubs developed on the property, as well as the County. Any of these individuals or entities may enforce the covenant and equitable servitude. This is sufficient to satisfy the requirement that at least 50 percent of the property be preserved as open space.

The CC&Rs shall make clear that the open space designated in the Open Space Plan, as finalized in the Final Development Plan ("FDP"), is the open space that is protected by the CC&Rs. Applicant suggests a condition that requires all deeds conveying all or some of the resort property to include a restriction specifying that the property is subject to the provisions of the resort final development plan and the CC&Rs and noting that the FDP and CC&Rs contain a delineation of open space areas which shall be maintained as open space areas in perpetuity.

There are other safeguards in addition to the provisions of the CC&Rs to ensure that the requirements of this criterion are satisfied. As each subdivision plat is submitted to the County, open space designated as such on the plat will be protected. The County land use process for approval of a subdivision plat will require compliance at each phase with the destination resort standards in the statutes and the County code and with the County's approval of this conceptual master plan application. Under ORS 92.010(7)(b) and ORS 92.070(7)-(8), open space could not be converted to another use unless the County approved a replat or a lot line adjustment.

Since any such replat or lot line adjustment would be subject to the terms of this approval, the preservation of open space would be considered and ensured when the application was reviewed.

(ii) Proposed conservation easements to protect significant Goal 5 sites pursuant to CCC 18.116.040(8).

Because there are no inventoried Goal 5 sites within the resort, no conservation easements are required pursuant to this subsection.

(f) A description of measures intended to mitigate significant project impacts on fish and wildlife and other natural values present in the open space areas;

The County destination resort application form, page 4, is a signed verification from ODFW confirming that the property does not contain big game habitat winter ranges or sensitive bird habitat. The property also does not contain any Goal 5 resources.

Applicant submitted a Wildlife Evaluation Report as App. Ex. 16. Applicant and its wildlife consultant, Gary L. Ivey, worked directly with ODFW to inventory wildlife resources on the subject property and to produce the report. In coordination with ODFW, Applicant produced a Draft Habitat Evaluation Procedures ("HEP") Analysis that is attached to the Wildlife Evaluation Report as Appendix 3. Applicant quantitatively evaluated the impact of resort development on wildlife and habitat values.

In response to letters from ODFW dated April 30 and May 20, 2008, and testimony at the hearings by ODFW representatives, Applicant prepared a draft Crossing Trails Resort Wildlife Mitigation Plan, dated July 31, 2008. This plan updates and elaborates upon the HEP analysis contained in the Wildlife Evaluation Report. It contains a detailed discussion of possible onsite mitigation measures and the possible creation of a fund to address offsite mitigation. Exhibit D of the Wildlife Mitigation Plan is a "Declaration of Covenant for Waiver of Remonstrance Crossing Trails." In its August 13, 2008 letter, ODFW states the Waiver of Remonstrance "addresses the damage concerns previously expressed by ODFW."

(g) A traffic study which addresses: (1) impacts on affected county, city, and state road systems, and (2) transportation improvements necessary to mitigate any such impacts. The study shall be prepared by a licensed traffic engineer in coordination with the affected road authority (either the county department of public works or the Oregon Department of Transportation, or both);

A Traffic Impact Analysis (TIA) is attached as App. Ex. 10. The TIA was prepared by Scott Ferguson, a licensed traffic engineer with Ferguson & Associates, Inc., in coordination with the County planning director and ODOT. The analysis explains potential resort impacts on affected roadways and intersections and proposes mitigation measures. Chris Clemow, a licensed traffic engineer with Group MacKenzie, has reviewed and supplemented the traffic data and analysis in letters dated March 28, 2008, which is attached as a supplement to App.

Ex. 10, and in two subsequent letters dated June 3 and July 16, 2008. The Ferguson analysis is discussed in more detail below, in response to the relevant approval criteria.

(h) A written statement addressing how the proposed destination resort satisfies the standards of CCC 18.116.040 or 18.116.050, and the approval criteria of CCC 18.116.100;

This narrative and the attached reports demonstrate how the proposed resort satisfies the applicable resort siting standards of CCC chapter 18.116.

- (i) A description of any proposed development or design standards, together with an explanation of why the standards are adequate to minimize significant adverse impacts on adjacent land uses within 500 feet of the boundaries of the parcel on which the destination resort is to be developed;
- (a) Design Standards. All development within the resort will be subject to CC&Rs, App. Ex. 24, and Architectural Design Guidelines, which will implement the Preliminary Architectural Theme Presentation, App. Ex. 19. The CC&Rs will require compliance with the dimensional standards set forth in App. Ex. 18. The CC&Rs will also require compliance with the external setbacks established by CCC chapter 18.116 and any additional setbacks imposed by the County. Finally, the CC&Rs and the Architectural Design Guidelines, when adopted, will regulate the style of commercial and residential structures within the resort to ensure that the structures are compatible with the landscape of the area.
- (b) Impacts on Adjacent Land Uses. Applicant shall present the final CC&Rs prior to approval of the tentative plan for the first phase of the resort. App. Ex. 18, 19 and 24 provide only the general framework for development restrictions. Following issuance of the development plan and FDP decisions, Applicant shall incorporate any additional standards imposed as conditions of those decisions.

Ownership of lands within the 500' study boundary is listed by tax lot, along with the size of parcel, zoning, and the current crop production. See App. Ex. 32, Agricultural Survey Report and map of agricultural uses.

Tax Lot	Ownership	Acreage	Zoning	Crop
1515170000107	Mendes	11.08	EFU3	Range
1515170000108	Whitaker	10.15	EFU3	Range
1515200000103	Stafford	6.03	EFU3	Range/hay
1515200000100	Stafford	92.10	EFU3	Pasture/hay
1515200000200	Allen, B	22.31	EFU3	Pasture/hay
1515200000301	Allen, C	29.79	EFU3	Pasture/hay
1515200000300	Allen, C	25.74	EFU3	Pasture/hay
1515190000100	Malott	158.95	EFU3	Hay
1515180000600	Robinson	39.3	EFU3	Pasture/hay
1515180000500	Eder	118.44	EFU3	Pasture/hay
1515180000200	Allen, A	76.56	EFU3	Hay

1515180000100	Coleman	80.14	EFU3	Pasture/hay
1515170000103	Hanna	9.84	EFU3	Pasture/hay
1515170000102	Hanna	9.68	EFU3	Range
1515170000104	Brauchler	9.57	EFU3	Range
1515170000101	Garrison	9.29	EFU3	Range
1515080000103	Crawford	78.65	EFU3	Range
1515080000200	Crawford	312.88	EFU3	Range
151500001206	Crook County	169.08	EFU3	Range
151500002400	Schofield	428.73	EFU3	Range

The property is surrounded on all sides by parcels of land that are privately owned, with the exception of the northeast corner of the property. Crook County owns a large piece of property that touches the northeast corner of the property. The property on the eastern border and the northeastern half of the property is unimproved sagebrush and juniper woodlands. The northwest portion of the property is adjacent to an 80-acre piece of property that is being used for grazing and to four 10-acre parcels of land that are primarily used for residences and/or provide dry land grazing. The property directly to the northwest, which borders SW Parrish Lane, is primarily irrigated and used for grazing. However, there is a portion of land west of SW Parrish Lane and at the corner of SW Parrish Lane and SW Wiley Road that is being used for hay production. The property south of SW Wiley Road is irrigated and is used primarily for grazing.

Twenty parcels border the proposed resort. Of these twenty parcels, seven are 12 acres or less, eight are between 12 and 100 acres, and five have acreage larger then 100 acres. The three largest parcels are dryland range.

Crops identified within the 500-foot study area adjoining the proposed resort are irrigated hayfields, pasture, range and livestock. Irrigation is present on a number of parcels. Extending beyond the 500-foot study area, the agriculture remains dedicated to hay and livestock production. Hay fields both in and outside the study area are either mixture of grasses or alfalfa. Where irrigation is present, other field or grain crops can be substituted. Due to the arid nature of the Crook County, dry land crop production is limited. Geographically this area ranges from approximately 3,200 feet to 3,400 feet in elevation. Annual precipitation averages 10 inches.

Grazing of livestock has been demonstrated to be compatible with destination resort development, as evidenced by livestock grazing on the perimeter of Black Butte Ranch, Eagle Crest and other resort properties in Central Oregon. The fencing proposed by Applicant around the resort property will eliminate any potential conflicts and assist the owners of the adjacent properties in their efforts to corral their livestock. To the north and west, the subject property borders four non-irrigated parcels that lie east of SW Parrish Lane. Larger agricultural parcels (ranging from 39 to 118 acres in size) abut SW Parrish Lane to the west. The subject property borders two vacant and non-irrigated parcels to the south. Larger agricultural operations are located adjacent to SW Wiley Road to the south.

Possible impacts to agriculture in the study area originating from the proposed resort development and mitigation measures (*italics*) include:

• Loss or removal of fences during construction

Coordinate with landowners to replace fences in a fashion to fully restore livestock grazing capacity.

Possible disruption of water source for grazing cattle

Coordinate with landowner's access to water where needed.

Possible dust impact on hay crops and livestock (during construction)

Rangeland plants are not very sensitive to dust. The sparse population of cattle grazing per acre on rangeland in the immediate area would eliminate dust as a major concern. In more concentrated pasture-grazing areas to the west and south, the number of cattle per acre increases markedly. However, if dust becomes evident during construction standard water applications and dust control efforts shall be employed. Crops can be sensitive to excess dust during pollination and affect grade quality at harvest. Applicant shall utilize dust control measures during construction to prevent dust contamination to crops or livestock.

Potential for spray drift from golf courses

Current EPA and ODA pesticide rules prevent the drift of pesticides during application. Resort facilities will need to adopt and manage a weed and pest control plan keeping with state and federal laws.

Increased potential for wildfires arising from development.

Wildfire danger is a concern for all rangelands. Applicant will be required by state and local codes to reduce and prevent all fire dangers. A wildfire management plan is an important component of development not only for the resort, but also for the adjacent public lands.

The subject property is currently within the Crook County Fire and Rescue's fire protection District. Crook County Fire and Rescue will respond to any fire on the resort property. Access is currently available to the property along either Wiley Road or Parrish Lane. As the destination resort develops, a series of roadways will interconnect and provide extensive access for emergency vehicles. The proposed primary access off Wiley Road and secondary access off the Parrish Road will offer alternative evacuation routes for future residents.

Development of Applicant's resort shall include construction of a domestic and fire protection water supply system. Based upon similar resort projects in Central Oregon, a minimum fire protection flow rate of 1,000 gallons per minute in residential areas and 1,500 gallons per minute in commercial areas is expected. Applicant's resort will ultimately be served by an extension of an Avion supply pipeline from Bend.

Large diameter water mains shall be extended throughout the residential and commercial sections of the resort to provide a domestic water supply and to serve fire hydrants. Fire hydrant locations shall be subject to the review of Crook County Fire and Rescue and Crook County Road Department and will be installed as each phase of development proceeds. The water supply system will assure an adequate on-site water system for fire protection, throughout all developed areas of the resort property.

The subject property abuts two County roads, SW Parrish Lane and SW Wiley Road to the west and south respectively. A nearly 350 foot wide clearing for power lines lies within the project boundary on the east side. The roads and power line corridor account for excellent fire breaks. The north side of the project is the only section where native conditions are contiguous to both sides of the boundary.

Development at of the proposed resort will include an 18-hole golf course. The 18 holes of irrigated turf will meander throughout the central resort core, providing an excellent fire break under wildfire conditions.

Constructed roadways and trails throughout the developed portions of the resort provide additional fire breaks, in addition to critical access.

In addition to the broad scale fire break provided by the golf course and roadways, the developer will encourage sound fire protection measures around structures. Fire resistant roofing materials will be required and ladder fuels around structures will be eliminated. Disturbed areas will be restored with landscaping, native bunchgrass, or other native vegetation that will reduce the potential for wildfires, as compared to juniper trees and native brush.

Open space areas within the resort, with emphasis on the open north side, will be thinned and ladder fuels removed. Exterior property boundary setbacks will be thinned for reduction of wildfire hazards. Thinning and ladder fuel reduction will continue as development proceeds.

Destination resort development assures the presence of construction personnel, resort operations staff and managers, and future residents. These responsible parties will monitor and report illegal activities, trespassers, lightning strikes, and similar activities or events that increase the risk of wildfire. Resort development will assure the presence of responsible parties, but also provide communication services throughout the resort for immediate responses to emergency personnel.

Elevated noise impact on area livestock

The proposed resort is spread over a large area and will include activities that are not large generators of noise. The sparse number of livestock on the east and north in the study area should be well insulated from any secondary noise generated by the resort. Trails and buffer areas on the west and south flanks of the resort will insulate what little noise is associated with the listed recreational activities and facility maintenance.

#### Spread of noxious weeds

Applicant shall be responsible for identifying and controlling noxious weeds on its land. This is consistent with its self-interest, since it must maintain golf courses and other outdoor venues. Applicant will conduct a weed survey prior to construction and control any identified weed infestations prior to construction to minimize the possible spread through normal construction activities.

Increased traffic on secondary roads

Applicant will establish a private new entry and road for the development reducing potential traffic problems on secondary roads. It will work with the County to create an acceptable traffic plan. Resort management will work with area landowners to create traffic flow patterns that will not disrupt the flow of agricultural equipment, livestock or other agricultural activities especially during harvest or seasonal fieldwork periods.

Possible increased agricultural practices conflicts with resort residents

Applicant is committed to being a good neighbor and realizes that the resort is adjacent to EFU zoned farmland. While a resort-zoned activity has been designated by the County, resort management understands the nature of farming practices on the surrounding farmland. Applicant will make sure through its CC&Rs that any residents and guests of the resort are made aware of accepted farming practices of the area, which include noise, dust, and odor generated through accepted farming practices.

Night light impact to surrounding ranch and farm residents and livestock.

Crossing Trails will employee a dark skies strategy that will greatly reduce the potential that light pollution could emanate from the resort.

Additional measures proposed to minimize significant adverse impacts on these adjacent land uses within 500 feet of the boundaries of the resort property include the following:

• The exterior setbacks imposed by the Crook County Destination Resort Ordinance will provide significant buffers between the resort uses and the adjacent lands;

- Applicant's commitment to low-density single-family lots and the required 50 percent open space, will maintain consistency with the rural landscape;
- To minimize light pollution, the resort will use only fully or partially shielded outdoor light fixtures to ensure that light rays emitted by the fixtures are generally projected below the horizontal plane;
- The Resort will take its primary access from SW Wiley Road to the south which provides a direct connection to Highway 126. This direct highway connection will minimize the impact of the project on the local street system;
- Applicant proposes to maintain perimeter livestock fencing around the entire
  resort boundary, at Applicant's expense. This will ensure that any surrounding
  owners of EFU lands who choose to conduct grazing operations on their
  properties will not face any additional financial impact in order to keep their
  livestock off of the resort property. It will also provide a clear delineation
  between the resort and the surrounding parcels, thereby minimizing trespass in
  both directions;
- The resort will include a domestic water supply system with fire protection capacity to minimize risk of wildfire. The resort will also implement and maintain wildfire fuel reduction programs to further reduce the risks of wildfire on and around the resort property;
- The resort will implement and maintain a noxious weed program to reduce the spread of noxious weeds on and around the resort property;
- The resort will require all property owners to execute waivers of remonstrance to enable ODFW to manage wildlife to protect agricultural and other uses on adjacent lands;
- The resort will apply water during periods of construction to minimize dust impacts on any surrounding properties and/or agricultural activities;
- The resort will adhere to applicable EPA and ODA pesticide rules to minimize potential spray drift from the golf course;
- The resort will improve SW Parrish Lane and SW Wiley Road to provide better access to agricultural properties surrounding the resort.

The resort will be served by the Crook County Sheriff's Department and will have efficient access to medical and emergency facilities in Prineville, Redmond, and Bend.

(j) A description of the proposed method of providing all utility systems, including the preliminary or schematic location and sizing of the utility systems;

Water and sewer mains will be constructed within the right of way under the road surface with a minimum of 10-foot separations. The sizing of the water and sewer mains is dependent upon units of density (equivalent dwelling units) within each phase. Water and sewer design will accompany each phase of development and will be subject to review and approval by Avion, the Department of Environmental Quality and the County to ensure the appropriate sizing. Other utilities (power, phone and cable TV) are proposed to be in a common trench just outside the road sections. A schematic of the location of the water and sewer system and utilities is provided in App. Ex. 11, Appendix A. Copies of "will serve" letters from Qwest and Central Electrical Cooperative, Inc. are included in App. Ex. 22; and from Avion in App. Ex. 11, Appendix D.

(k) A description of the proposed order and schedule for phasing (if any) of all development including an explanation of when facilities will be provided and how they will be secured, proportional to the level of development, if not completed prior to the closure of sale of individual lots or units;

Development is expected to occur in numerous phases over the next 20 years. A general illustration of the proposed phasing is shown on App. Ex. 3. Utilities will be developed proportional to the level of development. Final development plans for each area shall be submitted for approval at the time of final platting. Density, overnight lodging/residential lot ratios and total units, and open space ratios will be tracked on a plat-by-plat basis and required ratios shall be maintained throughout the project development.

Water and sewer facilities shall be constructed in phases to respond to demand as the project is built out. As the project progresses, the projected daily flows and requirements shall be refined to better reflect actual contributions and needs. Water and sewer lines will be stubbed to the next phase of development with the completion of the previous phase.

(l) A description of the proposed method for providing emergency medical facilities and services and public safety facilities and services, including fire and police protection.

The Crook County Sheriff's Office will provide police protection to the resort property. Fire protection will be provided by Crook County Fire & Rescue. App. Ex. 22 contains a letter from Crook County Fire & Rescue confirming they will provide fire protection to the resort.

Applicant has furnished the information required by CCC 18.116.080. This criterion is met.

# 18.116.090 Development plan review procedure.

(1) Review of the development plan shall be in accordance with the provisions of the planning commission review procedure (Chapter 18.172 CCC).

The Commission conducted hearings and reviewed written testimony from Applicant and others during the hearings process. The Court has conducted a hearing on the record and considered additional argument from Applicant and appellants ODOT and the Coalition.

(2) The planning commission may attach any conditions (including requirements for improvement assurances) it deems necessary to the development plan approval when directly related to applicable standards and criteria and supported by substantial evidence in the whole record.

The Commission attached conditions to this decision. The Court has added several conditions and has expanded and modified certain conditions.

(3) The planning commission shall issue a final order of its decision on the development plan. The planning commission's decision may be appealed to the county court. (Ord. 18 12.090, 2003)

These findings support the Court's decision on appeal.

The procedures established by CCC 18.116.090 have been followed. This criterion is met.

#### 18.116.100 Approval criteria.

The planning commission or county court shall approve a development plan for a destination resort if it determines that all of the following criteria are met:

(1) The tract where the development is proposed is eligible for destination resort siting, as depicted on the acknowledged destination resort overlay map.

The resort property is mapped as eligible for resort siting on the acknowledged Destination Resort Overlay map, App. Ex. 7, and is deemed eligible for destination resort siting.

(2) The development plan contains the elements required by CCC 18.116.080.

As detailed above, the materials submitted by Applicant satisfy all of the content requirements of CCC 18.116.080.

(3) The proposed development meets the standards established in CCC 18.116.040 or 18.116.050, qualifying as a destination resort or a small destination resort, respectively.

As detailed above, the proposed Crossing Trails Resort qualifies as a destination resort under CCC 18.116.040.

(4) The uses included in the destination resort are either permitted uses listed in CCC 18.116.060, or accessory uses listed in CCC 18.116.070 that are ancillary to the destination resort and consistent with the purposes of this chapter.

All uses proposed within the resort are either permitted or accessory uses listed in CCC Sections 18.116.060 and .070. The final CC&Rs shall expressly restrict all uses to those allowed by Sections 18.116.060 and .070, as amended. *See* App. Ex. 24. Applicant submitted lists of potential commercial and recreational uses as App. Ex. 8 (recreational uses) and App. Ex. 9 (commercial uses).

(5) The development will be reasonably compatible with surrounding land uses, particularly farming and forestry operations. The destination resort will not cause a significant change in farm or forest practices on surrounding lands or significantly increase the cost of accepted farm or forest practices.

As required by this criterion, the Crossing Trails Resort will be reasonably compatible with surrounding land uses. The Adjacent Property Owner map, App. Ex. 4.3, illustrates the ownership, size and configuration of all surrounding properties. All of the surrounding properties are zoned Exclusive Farm Use, EFU-3 (Powell Butte Area). In addition, many of the surrounding properties are mapped with the County's Destination Resort Overlay. The boundaries of resort overlay zoning are illustrated on the Destination Resort Overlay map, App. Ex. 7.

The resort has been designed in a manner that will ensure compatibility with privately-owned parcels in the surrounding area, and will not cause a significant change in or significantly increase the cost of farm uses on those parcels.

As explained above in response to CCC 18.116.080(3)(a)(i), the subject property borders privately held landholdings on all sides. Crook County owns a large parcel that touches the northeast corner of the property. Adjacent properties to the north and east are largely undeveloped and vegetated with sage brush and juniper woodlands. Some livestock grazing occurs on parcels to the north and west of the subject property. Grazing of livestock has been demonstrated to be compatible with destination resort development, as evidenced by livestock grazing on the perimeter of Black Butte Ranch, Eagle Crest, and other resort properties in Central Oregon. The fencing proposed by Applicant around the resort property will eliminate any potential conflicts and assist the owners of the adjacent properties in their efforts to corral their livestock. To the north and west, the subject property borders four non-irrigated parcels that lie east of SW Parrish Lane. Larger agricultural parcels (ranging from 39 to 118 acres in size) abut SW Parrish Lane to the west. The subject property borders two vacant and non-irrigated parcels to the south. Larger agricultural operations are located adjacent to SW Wiley Road to the south.

The Agricultural Survey Report, App. Ex. 32, discusses the potential for impacts on surrounding properties in the 500' impact area stated in CCC 18.116.080(3)(a)(i), and concludes the proposed development of the resort will not force a significant change in accepted farm or forest practices. This is because (1) the property is entirely surrounded by (mostly private) land dedicated to livestock grazing, alfalfa hay, and small pastures; (2) the impact study area includes livestock (cattle and horses), pasture, and rangeland, grass hay, and alfalfa hay production, which are not likely to be affected by the resort; (3) all agricultural activities are buffered by roads, open spaces, and small parcels; (4) all possible impacts can be readily mitigated or avoided through planning and project development. The Court rejects as anecdotal

and unpersuasive testimony that individuals have driven golf balls onto the property of neighbors of the resort, causing harm to domestic animals and livestock, since such activity is apparently unmonitored and has never originated on Applicant's property. There is no credible testimony to suggest that resort development will force a *significant* change in accepted farm practices.

Applicant's agricultural impact study also concludes that the proposed resort will not significantly increase the cost of accepted farm or forest practices on surrounding lands devoted to farm or forest use. (R 1365) That is because, as explained in the impact study, there will be no impacts that cannot readily be mitigated or avoided, and, without significant impacts, there should be no significant increase in cost. In reaching this conclusion, the Court relies on the expertise of the Applicant's expert, Bruce Andrews, who is a farmer and a former director of the Oregon Department of Agriculture. The Court is more persuaded by the expert testimony and evidence of Bruce Andrews than by the arguments of appellants. (See transcripts April 30, 2008 pages 37-44 and September 3, 2008, pages 32-33).

The Coalition (and other opponents) have not cited or produced any convincing conflicting evidence to indicate a "significant increase" in the cost of accepted farm or forest practices. Opponents have cited no evidence indicating how costs will increase (e.g. fertilizer, chemicals, power, labor, water, and misc. supplies) to contradict the Applicant's expert testimony and evidence. The Court is not obligated to comb the record on behalf of appellants to locate evidence to support their assertion. When faced with conflicting evidence, the Court can choose which evidence it finds more persuasive and credible. The Court finds, having reviewed all of the evidence and testimony in the record, that there is no credible or specific evidence cited by the Coalition in the record to indicate that the development will significantly increase the costs of accepted farm or forest practices. The Court, however, finds that Applicant has met its burden and, based on the evidence and testimony in the record of Bruce Andrews and the mitigation implemented through conditions, that the development will not significantly increase the cost of accepted farm or forest practices.

The Waiver of Remonstrance discussed above under CCC 18.116.080(3)(f) will allow neighbors of the resort to address wildlife concerns on their properties without interference from resort management or residents.

# (6) The development will not have a significant adverse impact on fish and wildlife, taking into account mitigation measures.

ODFW applied its own rules (OAR 635 division 415) in making recommendations for mitigation measures to address impacts on fish and wildlife. Applicant submitted a Wildlife Evaluation Report as App. Ex. 16 and, in response to ODFW concerns, the draft July 31, 2008 Wildlife Mitigation Plan (R 324-71).

The Coalition argues that the Commission's decision inadequately addresses code provisions related to mitigation of impacts on wildlife. CCC 18.116.080(3)(f) provides that an application shall contain "A description of measures intended to mitigate significant project

impacts on fish and wildlife and other natural values present in the open space areas." During oral argument before the Court, the Coalition representative stated that the phrase "present in the open space areas" modifies only the phrase "natural values." The Court disagrees. The inclusion of the adverb "other" in the phrase "fish, wildlife and other natural values" (emphasis supplied) suggests that fish and wildlife are themselves considered "natural values" and that the description included in the application must explain only the impact on these natural values only in open space areas.

The second citation relates to approval criteria and is found at CCC18.116.100(6). It is a more problematic sentence for Applicant because it requires a finding that "The development will not have a significant adverse impact on fish and wildlife, taking into account mitigation measures."

The Commission in its decision concluded that "because there are no significant fish and wildlife habitats mapped on the property under Goal 5 . . . with or without mitigation measures, the proposed resort will not have a significant adverse impact on fish and wildlife." (R at 84) The Commission then declined to require applicant to implement a wildlife mitigation plan. In its conditions, the Commission imposes only two conditions related to wildlife mitigation: one regarding wildlife friendly livestock fencing and one regarding non-remonstrance agreements related to wildlife management activities.

The Court believes the Commission errs in conflating the terms "no significant fish and wildlife habitats mapped on the property" and "no significant adverse impact on fish and wildlife." The one relates to specific species of concern. The other—the relevant approval criteria—relates to all species generally. The Court believes that a plain reading of CCC 18.116.090 can lead one to no conclusion other than the determination that adverse impacts on any and all species of fish and wildlife must be considered in reviewing and approving destination resort developments. While not all impacts need be mitigated, "significant adverse impact" must be mitigated.

ODFW in its final report to the commission (Record 318-320) asserts that based on the applicant's information the proposed development will result in the total loss of between 3,468 and 4,909 habitat units as a result of development. ODFW's representative indicated in his testimony that the habitat being mitigated for was not a "high value" and therefore mitigation did not need to be necessarily on-site or in close proximity off-site. (August 13, 2008 transcripts pages 11 &12). The Court finds that the number of habitat units lost prior to mitigation results in a "significant adverse impact" for this development.

According to the wildlife mitigation plan at R 324 submitted by the applicant's expert, Applicant proposes to mitigate by recovery of 513 on-site habitat units and by recovery of 4396 off-site habitat units (for a total of 4909 habitat units mitigated). As such, the Court finds that there will be no net loss of habitat units.

The Court finds that the applicant's draft wildlife mitigation plan proposal is substantial evidence that a reasonable person would rely on. The Court finds that based on the draft wildlife mitigation plan, the mitigation measures proposed therein and the testimony and evidence provided by the applicants expert Gary Ivey, that there will be "no significant adverse

impact" on fish and wildlife (See September 3, 2008 transcripts pages 39-35).

The Court further finds that while ODFW would prefer a higher dollar amount for off-site mitigation (R at 320) that the information is not sufficiently developed enough for the Court to rely on. The Court finds that it is not required to adopt ODFWs numbers or its request for more money when ODF&W merely expresses a "belief," without further detail and explanation.

The Court, having balanced all the evidence and testimony in the record, is more persuaded by the comprehensive draft wildlife mitigation plan analysis and the testimony and evidence provided by the Applicant's expert, Gary Ivey,. The draft mitigation plan proposes a net gain of habitat units, and all that is actually required by the Crook County Code is a finding of "no significant adverse impact" on fish and wildlife. The Crook County Code does not have a "no net loss" requirement although the applicant has proposed a plan that addresses and exceeds this higher standard. As such the Court finds that the mitigation proposed exceeds the requirement of the County Code.

A condition shall be imposed requiring Applicant to enter into an MOU with the County incorporating those proposals contained in the draft mitigation plan prior to receiving FDP approval. In addition, the MOU should require Applicant to pay up front or bond or provide through other financial security such costs in 2008 dollars as Applicant may be reasonably expected to incur related to off-site mitigation measures, and Applicant should be required to augment such additional funds, bonds or financial securities as may be necessary to ensure that adequate funds are available in dollars equivalent to 2008 dollar investment to complete all required off-site mitigation. Pursuant to Crook County Code 18.116.110 the FDP review procedures occur at a hearing with public participation.

(a) The traffic study required by CCC 18.116.080(3)(g) illustrates that the proposed development will not significantly affect a transportation facility. A resort development will significantly affect a transportation facility for purposes of this approval criterion if it would, at any point within a 20-year planning period:

# (i) Change the functional classification of the transportation facility;

The "functional classification" of a road refers to a designation, such as "arterial" or "collector." *Melton v. City of Cottage Grove*, 28 Or LUBA 1 (1994). It does not refer to performance standards, level of service or volume/capacity ratio.

The transportation facilities that will be most affected by the proposed development are Huston Lake Road, SW Wiley Road and SW Parrish Lane. The Crook County TSP classifies Huston Lake Road as a "rural major collector," SW Wiley Road as a "local street" and SW Parrish Lane as a "rural minor collector." The proposed development will not change the functional classification of these transportation facilities.

(ii) Result in levels of travel or access which are inconsistent with the functional classification of the transportation facility; or

The proposed development will not result in a level of travel inconsistent with the functional classifications of Huston Lake Road, SW Wiley Road and SW Parrish Lane. There is one emergency access proposed onto SW Parrish Lane, which is aligned with Fleming Road. There are two proposed access points to SW Wiley Road, approximately 1,500 feet apart. These are consistent with the County access standards.

(iii) Reduce the performance standards of the transportation facility below the minimum acceptable level identified in the applicable transportation system plan (TSP).

Because Applicant does not propose an amendment to a functional plan, an acknowledged comprehensive plan or a land use regulation, OAR 660-012-0060 ("Plan and Land Use Regulation Amendments") does not apply to the application. As the ODOT Development Review Guidelines, which are attached as Appendix D to the Ferguson study, explain at p. 3-3-2, "The authority to require a Traffic Impact Study as part of a local land use review comes from the local government's development code."

Applicant submitted the first Traffic Impact Analysis ("TIA"), which was prepared by Ferguson & Associates ("Ferguson"), as a CD as part of App. Ex. 10. Group Mackenzie supplemented the Ferguson work with three letters, dated March 28, June 4, and June 18, 2008. The studies identified the two intersections where the proposed development would "[r]educe the performance standards of the transportation facility below the minimum acceptable level identified in the applicable transportation system plan ("TSP"). They also identified six additional intersections that are already operating below minimum acceptable levels and one intersection (Reif Road/Hwy 126) that will cease to meet the standard at some time between 10 and 20 years, regardless of the resort, and calculated the proportional-share impact of the proposed resort on these intersections. On that basis, Group Mackenzie suggested a contribution amount calculated as the sum of the cost of the two intersection improvements and the proportional share amount (\$730,716).

ODOT submitted comment letters dated April 30, June 3, and July 16, 2008. ODOT contends the proposed mitigation is insufficient to satisfy the County's approval criteria, as ODOT interprets those criteria. ODOT makes three arguments: (1) the impacts of the resort will generate mitigation requirements costing about \$14,100,000; (2) the County's TSP requires the county to defer to ODOT's mobility standards; (3) The Oregon Highway Plan ("OHP") is the TSP for destination resort applications.

The County's TSP is part of its comprehensive plan (OAR 660-012-0015(4)). It contains goals and policies, with supporting data (like v/c ratios), not criteria applicable to individual applications. Even if the TSP did contain evaluative criteria, none of the provisions quoted by ODOT actually support ODOT's position. ODOT quotes the County TSP as follows: "2.4 Goal – Equity: Developments shall be responsible for mitigating their direct traffic impacts." This supports requiring mitigation proportional to Applicant's direct traffic impacts, not mitigation for the contribution of others.

The OHP is not the TSP for destination resorts. As explained at length in Applicant's

June 3, 2008 memorandum and in Applicant's November 26, 2008 memorandum, and as Applicant explained at the June 3, 2008 and the December 3, 2008 hearings, the OHP does not mention destination resorts. Any analysis based on the OHP is therefore incorrect.

ODOT acknowledges that Applicant has agreed to construct needed mobility improvements at Highway 126/SW Wiley Road and Highway 126/SW Parrish Lane, as well as make a proportional share contribution to additional intersections. ODOT requests that if the application is approved, Applicant, ODOT and the County enter into a memorandum of understanding ("MOU") that requires the agreed improvements be constructed and the agreed contributions are made.

The Goal One Coalition submitted a letter dated June 10, 2008 from Main Street Engineering, a Vancouver, Washington traffic engineering firm. The letter calls for more technical analysis and contends that there will be a "significant impact" on additional intersections.

The Main Street Engineering letter contains no independent traffic data collection or onsite study, which casts doubt on its recommendation that there be more technical analysis. The TIA and Group Mackenzie's supplemental letters were prepared after close consultation with ODOT and Crook County staff, both of whom approved the scope of the study. As shown by its July 29, 2008 letter to engineer Jeff Fuchs, ODOT has approved a design exception for the proposed future intersection improvements at Hwy 126 and SW Parrish Lane.

In a situation where an applicant and opponents rely on experts, the County occasionally commissions an independent expert to provide reliable advice. The county's own traffic consultant, OTAK, prepared a study, dated July 1, 2008, which supports the data and conclusions of Ferguson and Group Mackenzie. OTAK calculated a similar amount (\$754,950). Using OTAK's higher number, plus amounts for road improvements and a proposed bridge replacement, Applicant's total contribution will be approximately \$1,455,000.

The TIA, Table E-1, shows intersections that do not meet operation standards today, in 10 years or in 20 years. Although many of the intersections are presently failing or will fail during the next 20 years, only the intersection of Highway 126 and SW Wiley Road is shown to fail as a result of the proposed resort. A subsequent study showed that eliminating left-hand turns on SW Wiley Road would redirect north- and south-bound traffic onto SW Parrish Lane, causing the intersection of Highway 126 and SW Parrish Lane to fail. Therefore, the proposed resort can be said to "significantly affect" only two intersections: (1) Highway 126 and SW Wiley Road; and (2) Highway 126 and SW Parrish Lane.

OTAK rebuts arguments made by ODOT in its submissions and effectively agrees with the legal reasoning contained in a Memorandum dated June 3, 2008 submitted by Applicant. The Court agrees with OTAK and Applicant that under *Dolan v. City of Tigard*, 512 US 374 (1994), as it has been interpreted by the Oregon Court of Appeals in *Clark v. City of Albany*, 137 Or App 293, 300, 904 P2d 185 (1995), exactions must be roughly proportional to the impact of a proposed development. The Court specifically incorporates by reference the legal analysis in Applicant's June 3, 2008 memorandum and December 3, 2008 memorandum and concludes that not only does the proposed development not have a "significant affect" on

transportation facilities, as the term is used (in a technical sense) in CCC 18.116.100(6)(a), but the Court cannot constitutionally require Applicant to contribute to make major improvements to already failing transportation facilities, given the small amount of traffic Applicant will be contributing to those facilities. The County has the burden of proof on rough proportionality, and ODOT has not provided any evidence to support a finding of rough proportionality if Applicant were required to pay a sum in excess of 14 million dollars.

To elaborate further: The Coalition asserts that the Commission erred in finding that Goal 12's transportation planning rule ("TPR") either does not apply or is satisfied. ODOT, in verbal testimony to the Court at the hearing of December 3, 2008, asserted that the TPR does not apply to this application, but that the OHP (and specifically its highway mobility standard) does apply. At no point in any pleading does the Coalition concur with ODOT's stipulation, so it is necessary for the Court to address this argument. Exhibit C, which is attached to the ordinances adopting the destination resort overlay zone (Ordinance 17, amendments 52 and 53 and Ordinance 18, amendments 59 and 60), clearly spells out in section 18 (compliance) how the County intended to comply with Goal 12. Section 18 of Exhibit C states: "The County Court finds that the Comprehensive Plan and Zoning Ordinance amendments are consistent with Goal 12, Transportation, because Goal 8 and the Crook County implementing regulations require the resort to be constructed so that it is not designed to attract highway traffic through the use of extensive outdoor advertising signage. Furthermore, the amendments are consistent with OAR 660-012-0060, the TPR implementing Goal 12, because the implementing regulations also require analysis of transportation impacts of specific resort proposals at the time of future development review.

The Court finds that the amendments had the potential to significantly affect a number of transportation facilities under OAR 660-012-0060(2), because the amendments permitted the siting of destination resorts in Crook County, and future resorts are likely to add traffic to existing facilities, which in turn could have a "significant effect," as that term is defined in the TPR. However, the Court finds that OAR 660-012-0060(1) allowed the Court to adopt the subject amendments so long as it "limit[ed] allowed land uses to be consistent with the planned function, capacity, and performance standards of affected transportation facilities." Since compliance with particular performance standards cannot be determined until a specific resort proposal is submitted, the Court finds that the amendment properly limited uses to be consistent with any applicable performance standards by requiring resort applicants to provide a traffic study (CCC 18.116.080(3)(g)) at the time of development review to show that the proposed development will not reduce the level of service of any impacted transportation facility based on the performance standards set forth in the applicable transportation system plan (CCC 18.116.100(6)(a)).

The Court clearly intended at the time the above was adopted to comply with the TPR, as it existed then (including its reference to level of service), and to comply with applicable transportation system plans (including the OHP, when applicable), but to undertake that compliance through the traffic analysis to be implemented and used with each and every application submitted. This approach was not challenged when the destination resort implementing ordinances were passed. DLCD was timely informed of the amendment to the County's comprehensive plan and zoning ordinances prior to adoption, giving the agency plenty of time to object to the County's interpretation. It did not do so. To attempt to reinterpret this

application of Goal 12 now is an impermissible collateral attack on the implementing ordinances for destination resorts, the time for which has passed.

ODOT further asserts that CCC 18.116.100(6)(b)(ii) establishes an approval criterion for destination resort applications, providing that "a resort development will not significantly affect a transportation facility..." [ODOT appears to mis-cite the relevant section, which appears to be CCC 18.116.100(6)(a)]. ODOT places great importance on this phrase, noting that resort-related traffic would "reduce performance standards below an acceptable level" [an apparent reference to CCC 18.100(6)(a)(iii)] and asserting that "The Planning Commission's decision does not require the Applicant to mitigate for the impact of its traffic at the affected intersections. Therefore, the decision cannot be affirmed."

A closer reading of the Crook County Code is instructive. CCC 18.116.100(6)(a) provides that the traffic study must illustrate that the proposed development will not significantly affect a transportation facility. CCC 18.116.100(6)(b) provides that if a proposed development significantly affects a transportation facility, mitigation may occur in one of three ways: (i) By limiting development (ii) By providing facilities which meet the requirements of Chapter 660, Division 12 (implementing Oregon's Statewide Planning Goals and Guidelines related to Goal 12, Transportation); or (iii) Altering land use densities or adding design requirements to mitigate impacts. CCC18.100(6)(c) further defines how an Applicant will implement sub ii, when that option is chosen, as it has been in this case. Sub ii provides: "The Applicant shall be required to provide the transportation facilities to the full standards of the affected authority as a condition of approval. Timing of such improvements shall be based upon the timing of the impacts created by the development, as determined by the traffic study or the recommendations of the affected road authority."

The relevant phrases are "provide ... to the full standards" and "Timing ... as determined by the traffic study or the recommendations of the affected road authority." These seemingly proscriptive statements, however, must be read in conjunction with Dolan, which requires a demonstration of "essential nexus" and "rough proportionality." Because Dolan is a U.S. Supreme Court case, its requirements supersede the County code and any applicable provision of Oregon or Crook County statute, rules or code. There is no dispute that the impact of proposed development has an essential nexus to state and local transportation facilities. The crux of the dispute between appellants and Applicants is how to satisfy the "rough proportionality" test. Under Dolan, the burden of determining "rough proportionality" falls on the local government. Art Piculell Group v. Clackamas County 142 Or App 327 (1996) further addresses how this is applied in Oregon, noting that it is the government's burden, not the developer's, to articulate numerical and other facts necessary to demonstrate rough proportionality between developmental condition and impacts of development for purposes of takings clause analysis. Continuing, the Picullel analysis reads, "...concern is not with apportionment of costs for general improvement and general body of benefitted property owners, but with the extent to which a particular property may be burdened because of impacts that are attributable to its development."

The determinative factor in analyzing rough proportionality between developmental condition and impacts of development, for takings clause purposes, must be the relationship between impacts of development and approval conditions, and not the extent of public's needs

for road or other improvements that happen to exist at the time that this particular development is approved. ODOT and appellants would argue that the Applicant has the misfortune to be "last in" and therefore must disproportionately bear the burden of having to construct improvements triggered by the impact of Applicant's proposed development. But the Oregon Court of Appeals citing Schultz v. City of Grants Pass, 131 Or App 220, 227, 884 P2d 569 (1994), held that impacts must be narrowly construed to consider the impact of a particular property, not to speculative uses. Those speculative uses might well include the theoretical "ghost traffic" that ODOT and the Coalition are concerned may develop in the future as a result of other previously approved but far-from-certain-to-be-built destination resorts. Because there is uncertainty about the extent and timing of future traffic, the decision of the Commission to apportion costs roughly proportionate to anticipated development impact seems the fairest way to balance Applicant's contribution to demand on public infrastructure.

What is reasonable under both a *Dolan* test and the County code is to consider the timing and extent of payment by the proposed development for its proportional share of improvements. That proportional share is agreed, through the traffic study used in application proceeding, to be \$454,950 identified by the County's engineering consultant, calculated as follows: \$754,950 for all improvements minus an estimated \$300,000 for improvements for which Applicant is solely responsible equals \$454,950. Under the County code provision requiring Applicant to mitigate its significant impacts, the Commission elected the option which requires Applicant to "provide" transportation facilities. It is a reasonable interpretation of that clause that "providing" encompasses requiring advance payment or surety bonding or financial equivalent of the \$454,950, to be provided and maintained either with County or state in 2008 dollars until such time as the actual improvements are constructed. This represents the amount deemed to be "roughly proportional" to Applicant's identified impact. In addition, Applicant has agreed to make an additional contribution of approximately \$700,000 for road and bridge improvements, depending on actual cost. (See Applicant response brief dated Nov. 26, 2008.)

The Commission, in deliberating toward a final decision, was constrained by the record before it. As noted above, the local government, not the Applicant or appellant, bears the burden of demonstrating rough proportionality. The Commission had to rely upon the evidence before it at the time of making its decision. ODOT might well have brought before the Commission additional information which would have increased this number. The Coalition, likewise, might have engaged independent analysis which would have produced a higher number. However, neither of these events happened. The Commission made the most reasonable and defensible decision available to it, considering the evidence before it and considering the extraordinary burden which *Dolan* forces a local government to carry.

(b) If the traffic study required by CCC 18.116.080(3)(g) illustrates that the proposed development will significantly affect a transportation facility, Applicant for the destination resort shall assure that the development will be consistent with the identified function, capacity, and level of service of the facility through one or more of the following methods:

(i) Limiting the development to be consistent with the planned function, capacity and level of service of the transportation facility;

There are no plans to limit the development.

(ii) Providing transportation facilities adequate to support the proposed development consistent with Chapter 660 OAR, Division 12; or

Applicant has agreed to enter into a Memorandum of Understanding ("MOU") with ODOT and the County to undertake the planning, and design of necessary improvements at SW Wiley Road and SW Parrish Lane and for proportional contributions to additional intersections, as detailed in Table 3 of the July 1, 2008 OTAK study.

(iii) Altering land use densities, design requirements or using other methods to reduce demand for automobile travel and to meet travel needs through other modes.

There are no plans to alter land use densities, design requirements or use other methods to reduce demand for automobile travel and meet travel needs through other modes.

(c) Where the option of providing transportation facilities is chosen in accordance with subsection (6)(b)(ii) of this section, Applicant shall be required to provide the transportation facilities to the full standards of the affected authority as a condition of approval. Timing of such improvements shall be based upon the timing of the impacts created by the development, as determined by the traffic study or the recommendations of the affected road authority.

As stated under (b)(ii) above, Applicant shall be required to entire into a MOU with ODOT and the County that states the amount of Applicant's financial contribution to the required improvements and addresses the timing of the impacts created by the development.

(7) The water and sewer facilities master plan required by CCC 18.116.080(3)(b) illustrates that proposed water and sewer facilities can reasonably serve the destination resort.

The Applicant's conceptual Water and Sewer Facilities Master Plan ("Master Plan") contained in App. Ex. 11, along with additional evidence provided in response to public comments, illustrate that the proposed water and sewer facilities can reasonably serve the destination resort.

Adequacy of Proposed Water Facilities

The Master Plan identifies a total annual water demand for the resort of 802 acre-feet per year at full build out. This total includes water for domestic/residential uses, a variety of commercial uses, golf course and common area landscape irrigation, and small ponds and water features. A minimum rate of 1,500 gallons per minute is required for fire protection flows. Water to meet these requirements will be supplied by Avion and COID, under existing water rights. No new water rights are required for the project.

Avion will supply potable water to the resort site through an extension of services currently planned for the Powell Butte area. A letter of commitment provided by Avion, App. App. Ex. 11, Appendix D, confirms that Avion is prepared to deliver water for up to 680 "equivalent dwelling units" and the required fire flow rate of 1500 gallons per minute. A copy of the Avion Master Plan demonstrates Avion's ability to serve the resort. App. Ex. 11, Appendix C. The arrangement with Avion will include construction by Crossing Trails of a 150,000 to 200,000-gallon reservoir on Avion property for resort purposes. The reservoir will ensure capacity to meet peak-hour demands and fire flow requirements for the resort, and will provide a reserve system for emergency use. The water supplied by Avion will be used for all potable water needs, including residential and commercial uses. Avion water will also be used for individual residential irrigation.

Water for golf course and common area irrigation, and related ponds and water features, will be provided by COID, under existing water rights appurtenant to the property. The Master Plan identifies a need for up to 140 acres of non-residential irrigation for the resort, including up to approximately 120 acres for the golf course and the remainder for landscaping in common areas. A total of 420 acre-feet of water per year is estimated for these irrigation purposes, determined on the basis of 3 acre-feet per acre. The COID water rights will also be used to provide the primary source of water for small ponds and water features, estimated at approximately 53 acre-feet.

The existing COID water rights authorize a total of 5.45 acre-feet per acre, per year, for irrigation use on 163.45 acres appurtenant to the resort property, and are therefore sufficient for the golf course, small ponds and water features. The proposed combination of potable water service to be provided by Avion, and use of the existing appurtenant COID water rights is sufficient to fully address the estimated need at full build-out of the resort. In addition, Applicant proposes to use treated effluent, as it becomes available to the project, to offset irrigation demand and for recharge purposes as described in the Master Plan.

During the public hearing process, a number of comments raised concerns about potential impacts from increased use of ground water by Avion to serve the resort. In response to these questions, the Applicant clarified, in a Technical Memorandum dated July 30, 2008, "Supplement to Water and Wastewater Facilities Mater Plan," that Avion water would be provided in two stages: short-term water supply needs will come from an existing well (referred to as the "Nixon Well" by Avion), in the Powell Butte area and long-term water supply will come from Avion's primary wells in the Bend area, following extension of a mainline from Bend. Therefore, the long-term supply for the project will not draw ground water from the Powell Butte area. In addition, the Applicant provided documents from the Oregon Water Resources Department ("OWRD") relating to the state review of the Avion application for a water right for use of the Nixon Well. The documents show OWRD findings that use of the well was not expected to cause any interference or injury to other wells in the area and that the Avion well draws water from the Deschutes regional aquifer. Applicant also confirmed that OWRD has not received any complaints from other well owners regarding operation of the Nixon Well by Avion since it was originally approved and put into use and provided testimony from a hydro-geologist confirming that short-term use of the well is not expected to cause interference with other wells in the area.

The Commission also heard comments about general concerns for possible impacts to the aquifer and ground water supply. In response to these questions, Applicant provided additional analysis by its consultant, Mr. David Newton, P.E., C.E.G., confirming that the Avion water wells draw from the Deschutes regional aquifer and not from the local Powell Butte aquifer. Memorandum dated August 27, 2007, from David Newton. Mr. Newton's analysis confirms the regional aquifer is substantial and, based on information obtained from OWRD, concludes there is adequate ground water available.

A specific concern was raised by a neighboring landowner as to whether the existing COID canal would be relocated or changed in a way that would interfere with his continued use of COID water. In response, the Applicant confirmed there are no plans to alter the location of the canal or make any modification that would impair water flow and use by downstream users. Applicant provided documentation for the record that COID controls the irrigation canal and prohibits changes that would interfere with COID purposes.

Public comments also raised general concerns about the amount of water to be used for the golf course and whether the Applicant has sufficient water rights for golf course irrigation. In response, Applicant provided testimony that the amount of water proposed for the golf course is consistent with the amounts approved for other projects in the area and will be less than the amount historically used for crop irrigation on the property. Applicant's Master Plan explains that the new irrigation system to be installed for the golf course will be highly efficient and minimize water use. As a result, the existing irrigation water rights are sufficient.

#### Sewer Facilities

The Sewer Facilities Component of the Master Plan demonstrates that the proposed community sewage systems can reasonably serve the proposed resort. The community sewerage systems for the project will be constructed and operated under a Water Pollution Control Facilities ("WPCF") permit issued by the Oregon Department of Environmental Quality ("DEQ"). Collection, treatment, disposal and reuse systems will be designed in accordance with applicable state and local rules, statutes and guidelines. Total projected daily sewage flow for the project is estimated at 150,000 gallons per day, at full build-out. The sewage system will be built in phases corresponding to resort development. Each phase of system will include components for collection, wastewater treatment, subsurface drip distribution/irrigation reuse systems and/or storage, and solids handling and disposal systems.

As described in the Master Plan, Applicant will use a septic tank effluent pump ("STEP") and septic tank effluent gravity ("STEG") system. Primary treatment of sewage will occur in the septic tanks. Effluent will flow from the tanks into a collection system. Where topography will not allow for gravity flow from the tanks, a pumping system will lift effluent to the collection system. Applicant will use membrane bioreactors ("MBR") technology for wastewater treatment. Disposal and reuse options will focus on subsurface drip disposal systems, and seasonal drip irrigation reuse. Any re-use water with potential for human contact, such as water features, will be treated to "Level IV," suitable for any use except direct consumption. Septic tank solids and biological treatment solids will not be treated on site, but instead will be appropriately transported for off-site processing and disposal in accordance with

state and local requirements.

During the public hearing process, comments expressed a general concern about possible odor or ground water contamination due to the proposed sewage treatment facilities. In response, Applicant provided additional evidence describing the "closed system" technology planned for the project that is expected to almost completely eliminate odor. As discussed in the Technical Memorandum dated August 26, 2008, from Jeff Fuchs, P.E., the system will also be required to comply with state DEQ regulations to ensure against potential ground water contamination.

(8) The development complies with other applicable standards of the county zoning ordinance.

The only additional standards applicable to the resort are the road standards. The roads depicted on the Development Plan map are consistent with the County's minimum rural road standards. Applicant will be required to demonstrate consistency with these standards at the time of future subdivision plat review. Applicant has agreed to make any needed improvements to the roads to bring them up to County requirements and also to reconstruct one bridge on SW Parrish Lane and a second bridge on SW Wiley Road, to the south of the property.

The criteria in CCC 18.116.100 are met.

# 18.116.110 Final development plan review procedure.

- (1) Following approval of the development plan, Applicant shall submit for review a final development plan that meets the requirements of CCC 18.172.040 and addresses all conditions of the development plan.
- (2) The planning commission shall review a final development plan pursuant to CCC 18.172.060. The planning commission shall approve a final development plan if it conforms to the approved development plan and its conditions of approval.
- (3) If the planning commission finds that the final development plan is materially different from the approved development plan, Applicant shall submit an amended development plan for review. "Materially different," as used in this subsection, means a change in the type, scale, location, or other characteristics of the proposed development such that findings of fact on which the original approval was based would be materially affected. Submission of an amended plan shall be considered in the same manner as the original application, except that the review of an amended plan shall be limited to aspects of the proposed development that are materially different from the approved development plan.

Compliance with CCC 118.160.020 General Conditional Use Criteria

CCC 18.160.020 sets forth the County's general conditional use criteria. The destination resort ordinance (CCC chapter 18.116) sets forth a very specific set of criteria to govern resorts, and those criteria typically go beyond the conditional use criteria set forth below.

In judging whether or not a conditional use proposal shall be approved or denied, the commission shall weigh the proposal's appropriateness and desirability or the public convenience or necessity to be served against any adverse conditions that would result from authorizing the particular development at the location proposed and, to approve such use, shall find that the following criteria are either met, can be met by observance of conditions, or are not applicable:

(1) The proposal will be consistent with the comprehensive plan and the objectives of the zoning ordinance and other applicable policies and regulations of the county.

The relevant provisions of the zoning ordinance are addressed above and incorporated herein by reference. CCC chapter 18.116 implements the destination resort chapter of the County comprehensive plan, which itself implements Goal 8. Therefore, because Applicant has demonstrated compliance with CCC chapter 18.116, it is not necessary to directly address the comprehensive plan policies or Goal 8.

Applicant shall address the County's subdivision ordinance as each future tentative plat is submitted. Applicant shall also submit site plans when required for various elements of the resort, following or concurrent with FDP approval.

(2) Taking into account location, size, design and operation characteristics, the proposal will have minimal adverse impact on the (a) livability, (b) value and (c) appropriate development of abutting properties and the surrounding area compared to the impact of development that is permitted outright

Compatibility and the minimization of adverse impacts on surrounding uses is discussed above in response to CCC 18.116.100(5) and 18.116.080(3)(i). The findings discuss compatibility with abutting properties currently in farm use, and with the surrounding area generally. This criterion does not require Applicant to show that the resort will have no adverse impacts. Rather, it requires Applicant to *minimize* its potential adverse impacts through careful design, location, and mitigation measures. As a result of the development standards and mitigation measures discussed above, the development will have minimal adverse impacts on surrounding properties.

The proposed low density of a destination resort, combined with Applicant's proposal to provide an 18-hole golf course and associated open space features on the central basin of the resort property, will maintain significant open space, consistent with the character of the surrounding farming community. Thus, for these reasons and those set forth above in response

to CCC chapter 18.116, the development will have minimal adverse impacts on the livability, value, and development of surrounding properties.

(3) The location and design of the site and structures for the proposal will be as attractive as the nature of the use and its setting warrants.

The resort will be located in a high desert setting suitable for destination resort development. The design will respect the setting and will incorporate elements appropriate to the high desert, as set forth in Architectural Guidelines. Applicant's stated goal is to use the natural amenities of the property and the region to enhance the proposed resort. Further land use reviews will allow greater focus on the exact design of the proposed development.

The criteria of CCC 18.160.020 are met.

As conditioned below, the proposed development complies with all applicable approval criteria for a destination resort.

### Conditions of Approval

The County Court hereby approves the development plan application for the Crossing Trails Resort with the following conditions of approval. When reference is made to "Applicant," the reference includes Applicant's successors and assigns:

- 1. The resort shall contain a restaurant and meeting rooms with seating for a minimum of 100 people.
- a. The minimum required eating and meeting facilities shall be constructed or guaranteed through surety bonding or equivalent financial assurance prior to the sale of individual lots.
- b. The eating and meeting facilities shall be oriented toward the needs of resort visitors rather than area residents.
- 2. The number of lots approved for residential sale shall not be more than two lots for each unit of permanent overnight lodging, as that term is defined in Statewide Planning Goal 8, ORS 197.435(5), and CCC 18.116.030(5).
- a. Applicant shall document compliance with this ratio prior to tentative subdivision plan approval for each phase of resort development.
- b. Pursuant to this development plan approval, the applicant may provide a maximum of 500 single family lots and 250 overnight lodging units to meet the ratio. Multiple overnight lodging units may be provided as "lock-off units" or "keys" within a single dwelling or structure.
- 3. The resort shall contain a minimum of 150 rentable units for overnight lodging, oriented toward the needs of visitors rather than area residents. (CCC 18.116.040(3)).

- a. The minimum 150 units of overnight lodging must be constructed within five years of the initial lot sales. (CCC 18.116.040(c)).
- b. At least 50 units of overnight lodging must actually be constructed prior to the closure of sale of individual lots or units. (ORS 197.445(4)(b)). Applicant shall construct these units during the first phase of development. An additional 25 units shall be constructed or guaranteed through surety bonding or other equivalent financial assurance prior to the closure of sale of individual lots or units. (CCC 18.116.050(a)(i)).
- c. After the construction of the first 50 overnight lodging units, the remaining 100 overnight lodging units required to meet the statutory minimum of 150 units must be constructed or guaranteed through surety bonding or equivalent financial assurance within five years of the initial lot sales. (CCC 18.116.050(3)(c)).
- d. If Applicant guaranteed the construction of any of the required 150 units through surety bonding or other equivalent financial assurance, these overnight lodging units must be constructed within four years of the date of the execution of the surety bond or other equivalent financial assurance. (ORS 197.445(b)(F)).
- 4. All developed recreational facilities and visitor-oriented accommodations required to serve a particular phase shall be constructed or guaranteed through surety bonding or equivalent financial assurances prior to closure of sale of individual lots or units in that phase.
- 5. Applicant shall invest a minimum of \$10,225,329 (in 2008 dollars) for developed recreational facilities and visitor-oriented accommodations, exclusive of costs for land, sewer and water facilities, and roads. At least \$3,408,443 (in 2008 dollars) shall be spent on developed recreational facilities. The minimum spending requirements shall be increased to present day dollars at the time of the approval of the bond for the subject improvements, based upon the United States Consumer Price Index. The recreational facilities may include, but shall not be limited to, those listed in App. Ex. 8. ("Crossing Trails Destination Resort Development Plan Recreational Uses").
- 6. Casitas and "lock offs" shall be at least 400 square feet and shall include a self-contained bath. Any such units shall have a kitchenette, including a sink for food preparation (in addition to the bathroom sink); either a microwave oven or a hot plate; and a refrigerator. The cost to construct such overnight lodging shall not be counted toward the investment requirement in CCC 18.116.050(4) for the development of recreational amenities.
- 7. Commercial uses within the resort shall generally be limited to the categories of uses listed in CCC 18.116.070(8) and App. Ex. 9, which is attached to the development plan application. All commercial uses shall be internal to the resort, limited to the types and levels of use necessary to meet the needs of resort visitors, and oriented towards guests rather than the general public.
- 8. Applicant shall present the final CC&Rs prior to approval of the tentative plan for the first phase of the resort.

- 9. The final CC&Rs shall expressly restrict all uses to those allowed by CCC 18.116.060 and 18.116.070.
- 10. Over 50 percent of the resort site including the area devoted to golf course uses, but excluding yards, streets and parking areas, shall be maintained as open space throughout the life of the resort. Compliance with this standard shall be continuously documented prior to approval of each subdivision plat.
- a. The resort shall maintain compliance with the open space standard pursuant to the Open Space Management Plan attached to the development plan application as App. Ex. 15.
- b. The CC&Rs shall provide that, at all times, at least 50 percent of the property shall be designated as open space, and make that requirement a covenant and equitable servitude, which cannot be amended without the consent of the County, which runs with the land in perpetuity, and which is for the benefit of all of the property initially included in or annexed to the resort, each homeowner, the declarant, the homeowners' association, and any of the golf clubs developed on the property, as well as the County. Any of these individuals or entities may enforce the covenant and equitable servitude.
- c. The CC&Rs shall make clear that the open space designated in the Open Space Plan, as finalized in the FDP, is the open space that is protected by the CC&Rs.
- d. All deeds conveying all or some of the resort property shall include a restriction specifying that the property is subject to the provisions of the resort FDP and the CC&Rs and noting that the FDP and CC&Rs contain a delineation of open space areas which shall be maintained as open space areas in perpetuity.
- 11. Unless modified during the FDP approval process, the dimensional standards applicable to lots and structures within the resort shall be the standards attached to the development plan application as App. Ex. 18.
- 12. Compliance with setback requirements shall be documented during each phase of subdivision or site plan review.
- 13. The resort's CC&Rs shall mandate the use of fully or partially shielded outdoor light fixtures to ensure that light rays emitted by the fixtures are generally projected below the horizontal plane.
- 14. The resort shall maintain perimeter livestock fencing around the entire resort boundary. Applicant may install the fence in segments, concurrent with development of each phase abutting the exterior property boundary. To the degree necessary to prevent livestock from entering the resort property, Applicant shall construct and/or install cattle control devices at entrances to the resort. Applicant shall coordinate the fence design with ODFW to ensure that the fence is "wildlife friendly" where appropriate.
- 15. Applicant and individual property owners in the resort shall execute and record in the County deed records a waiver of remonstrance agreeing that they and their successors will not now or in the future complain about any accepted agricultural practices on the EFU-3

properties immediately adjacent to the resort. At the time of closure of sale of each individually-owned residential lot or unit, the buyer shall execute and record the waiver of remonstrance in the County deed records.

- deed records a waiver of remonstrance agreeing that they and their successors will not now or in the future complain about any authorized wildlife damage control activities conducted within the resort or on properties immediately adjacent to the resort boundaries. The waiver of remonstrance may be in a form substantially similar to the "Declaration of Covenant for Waiver of Remonstrance Crossing Trails," which is Exhibit D to the draft Crossing Trails Resort Wildlife Mitigation Plan, dated July 31, 2008. At the time of closure of sale of each individually-owned residential lot or unit, the buyer shall execute and record the waiver of remonstrance in the County deed records.
- 17. Prior to FDP approval, Applicant shall submit a plan for approval by the Commission that includes the following mitigation measures, as detailed in the Andrews Agricultural Impact Study: (a) Coordinate with landowners in the replacement of fences in a fashion that will fully restore livestock grazing capacity; (b) In cases where the resort development disrupts water availability to grazing cattle, assist in providing access as needed; (c) Conduct a weed survey prior to construction and control any identified weed infestations prior to construction to minimize the possible spread through normal construction activities; (d) Educate residents and guests to respect accepted farming practices in the area; and (e) Implement "dark sky" measures to control potential light pollution.
- 18. Prior to FDP approval, Applicant shall submit a plan for approval by the Commission that provides for visual buffering of the resort from adjacent residences through the use of appropriate, varied vegetation. The plan shall detail the height, width and density of such vegetation to ensure year-round screening.
- 19. The resort shall apply water during periods of construction to minimize dust impacts on any surrounding properties and/or agricultural activities.
- 20. The resort shall adhere to applicable EPA and ODA pesticide rules to minimize potential spray drift from the golf course.
- 21. Applicant shall design all site drainage plans consistent with the Erosion Control and Stormwater Management Program, attached to the development plan as App. Ex. 21, or as amended following consultation with the Crook County Planning Department.
- Prior to FDP approval, Applicant shall enter into an MOU with the County that requires Applicant to implement the on-site mitigation measures described (at R 332-36) in the Crossing Trails Wildlife Mitigation Plan dated July 31, 2008. The MOU shall provide that prior to recordation of the plat for Phase 1 of resort development, Applicant shall (a) contribute \$110,000 to an appropriate third-party agency for the benefit of wildlife habitat, located in Crook County if possible, to pay private contractors to implement the off-site mitigation described in the Wildlife Mitigation Plan (R 337-39); and (b) contribute an additional \$40,000 to the agency listed in (a) to maintain ongoing mitigation measures indefinitely.

- 23. Prior to recordation of the final plat for the first phase of the resort, Applicant shall submit documentation of the final plans for solid waste collection, recycling, and/or disposal to the Crook County Planning Department. Recycling programs shall include, but not be limited to, paper, glass, and plastics. Solid waste shall be collected by a hauler and disposed of in the Crook County Landfill.
- 24. If Applicant proposes development in the floodplain of the COID waterway or on slopes greater than 25 percent, Applicant shall, prior to tentative plan approval of individual phases in the resort, file with the County a geotechnical report that demonstrates adequate soil stability and implements mitigation measures designed to mitigate adverse environmental effects.
- 25. If any wetlands are discovered on the property, Applicant shall mitigate for the loss of wetlands through enhancement of the remaining wetlands (if any) or the creation of new wetlands at a different location.
- 26. Potable/domestic water shall be provided by Avion or another commercial water company drawing from the Deschutes Regional Aquifer.
- 27. Applicant shall document compliance with the Noxious Weed Plan, which is attached to the development plan application as App. Ex. 19, on an annual basis by submitting a written report to the Crook County Weed Master.
- 28. Prior to tentative plan approval for the first phase of the resort, Applicant shall submit a Conceptual Visual Impact Mitigation Plan. The Plan shall be completed in consultation with a licensed landscape architect. Applicant shall incorporate the Plan into the resort CC&Rs to ensure compliance with the following Planting and Building Materials Guidelines:

# a. <u>Planting Guidelines</u>:

- i. The Planting Guidelines shall require each applicant for a building permit to identify the vegetation to be retained within the subject lot;
- ii. The Planting Guidelines shall contain a planting list identifying the acceptable plants for use on each individual lot and within the open space tracts to provide supplementary screening and aesthetic benefits;
- iii. The plant species on the planting list shall be native species with low water needs, appropriate soil characteristics screening potential, and suitability to the resort site;
- iv. Applicant's CC&Rs and/or Design Guidelines shall establish an Architectural Review Committee (ARC) process to implement the planting guidelines on each lot at the time of building permit review, and within open space tracts.
- b. <u>Building Materials Guidelines</u>: The Building Materials Guidelines shall include a list/palette of building materials intended to blend with the natural environment. This list shall require applicants for building permits to use the following types of materials to minimize visual impacts:

- i. Downward or shielded outdoor lights; and
- ii. Facade materials that reflect the natural environment: wood, muted colors, non reflective materials, etc.
- 29. Prior to tentative plan approval for the first phase of the resort, Applicant shall submit evidence to the Crook County Planning Department documenting DEQ approval of the WPCF permit from DEQ for the resort's sewage treatment facilities.
- 30. All new utilities shall be installed underground with the exception of overhead electrical transmission lines, which may remain above-ground.
- 31. If Applicant elects to extract and process aggregate materials on-site to support the infrastructure needs of the resort, Applicant shall not exceed the scope of what CCC 18.24.010(12) allows. Applicant shall depict the location of the extraction/processing operation on the FDP, either at the time of FDP issuance of through an FDP amendment. Applicant shall also gain all necessary local and state permits necessary to allow the extraction and processing to occur. Under no circumstances may Applicant export aggregate materials from the site for sale or commercial or industrial purposes.
- 32. Prior to tentative plan approval for each phase of resort development, Applicant shall submit a detailed depiction of the final location and size of all roads and trails within a phase to the Crook County Planning Department and its consulting engineering firm.
- 33. Primary and secondary resort access points to the resort shall be located on SW Wiley Road, which borders the subject property to the south. An additional access point, for emergency access only, shall be located on SW Parrish Lane. Traffic to Prineville, which is to the east, and Bend/Redmond, which are to the west, are expected to use Highway 126. Applicant shall obtain County road access permits from the County Roadmaster prior to FDP approval.
- 34. All minor street approaches intersecting with the primary roadways within the resort shall be stop sign or roundabout controlled.
- 35. As required by ODOT, Applicant shall provide the improvements to Reif Road/Highway 126, Highway 126/SW Wiley Road and Highway 126/SW Parrish Lane listed in Table 3 of OTAK's July 1, 2008 letter to the County (R 566). The improvements to Highway 126/SW Parrish Lane shall be as detailed in ODOT's July 29, 2008 letter (R 248) addressed to Jeffrey Fuchs at Bussard Williams and the attachments to that letter. Prior to FDP approval, Applicant shall complete an MOU with ODOT to establish the timing of these improvements.
- ODOT to facilitate contributions for its proportional share (\$454,950, in 2008 dollars) of funding for the traffic facility improvements (other than those addressed by Condition 35) listed by the County's agent, OTAK, in Table 3 of OTAK's July 1, 2008 letter to the County (R 566). Such contributions shall be guaranteed through bonding or equivalent financial assurances at the time of recordation of the Phase I plat and shall be paid no later than three years after recordation of the Phase 1 plat.

- 37. Prior to FDP approval, Applicant shall enter into an MOU with the County requiring Applicant to pay the actual cost to improve (a) affected portions of SW Parrish Lane from Highway 126 to the north boundary of the subject property adjoining SW Parrish Lane; and (b) affected portions of SW Wiley Road from its intersection with SW Parrish Lane to Highway 126. Such improvements, to be within the existing right-of-way, shall include overlays, shoulders, two canal bridges on SW Parrish Lane and one canal bridge on SW Wiley Road. The improvements shall be built to any governing jurisdictional standards so that they can adequately serve the proposed development and existing adjacent uses. Timing for such improvements shall be as stated in the MOU.
- 38. The County Road Department shall monitor pavement conditions on affected portions of SW Parrish Lane and SW Wiley Road prior to construction of the improvements required by Condition 37. If the monitoring reveals, as determined by the County Road Department, that the existing pavement index falls below "60" prior to construction of these improvements, Applicant shall conduct interim repairs, including repairs as necessary to the two existing bridges on SW Parrish Lane and the one bridge on SW Wiley Road, to meet reasonable safety standards as determined by the Crook County Road Department. Applicant shall not be required to repair damage to any road that is caused by third parties, beyond normal wear and tear.
- 39. If Crook County adopts a systems development charge ("SDC") ordinance or similar mechanism, Applicant shall be exempt from or eligible for credit or reimbursement under the ordinance if: (1) the ordinance requires Applicant to pay SDC s for an improvement that Applicant is already required to contribute to pursuant to the conditions of this decision, and (2) the subject improvement is listed on the County's Capital Improvement Program ("CIP").
- 40. Cash obligations upon which a development is conditioned shall be paid in full prior to the approval of the final development plan or prior to recordation of the first phase plat. If bonding or other suitable financial assurances are used to guarantee ultimate payment of any obligations, then these shall be in a form approved by Crook County Counsel and the Crook County Court and drawn on a bonding agent or other source which is acceptable to the Crook County Court. The Court may, at any time, require additional bonding or assurances or a change in the bonding agent or other guarantor as the Court may reasonably determine is necessary to ensure that the County's interest in ensuring completion of the financially-assured elements is protected. If Applicant fails to make a required cash payment or to maintain the level or form of financial assurances required by the Court, the County may enjoin further development or revoke the conditional use permit. In the event that the Court believes at any time that Applicant is in default, the Court shall give Applicant 120 days' written notice and an opportunity to cure the default to the satisfaction of the Court prior to enforcement action by the County.
- As stated in Condition 3(b), at least 50 units of overnight lodging, as defined in ORS 197.435(5) and as further described in this decision, shall be constructed prior to the sale of any individual lots or units. Prior to approving the sale of lots or units, the County shall certify in writing that the required overnight lodging has been constructed. To be effective, such certification shall be approved by the County Court.

- 42. Release of bonds or other financial securitization shall be at the sole discretion of the Crook County Court. Bonds or other financial securitization may be reduced in proportion to the amount required to ensure that the work remaining to be completed, but no bonds or securitization shall be released without a finding by the court that the remaining bond or financial securitization is adequate to secure all additional construction anticipated by the conditional use permit and not yet completed.
- 43. The Court may at any time require an increase in the level of bonding or financial securitization in order to ensure sufficiency of resources to undertake anticipated construction in light of changing construction costs.
- 44. No plats for individual phases shall be recorded, no construction of overnight units or infrastructure shall commence nor shall the sale of individual lots occur prior to the execution of Memoranda of Understanding related to transportation facilities and wildlife mitigation and any other conditions requiring said memoranda, except as approved by the County Court. Failure to abide by this condition may result in County enforcement action.
- 45. All utilities placed in county road rights of way shall be installed at the direction of the county road master only upon issuance of a right of way permit. No installation of utilities shall render the use of county roads impassable by the public except by written permission of the road master, and road master shall determine in issuing any such permission that no other feasible and reasonably affordable option exists for the installation of such utilities other than to inconvenience the public by rendering the roads impassable for a time certain. When permission is granted to render a road impassable, it shall be only for the minimum time necessary to complete installation.

DATED this  $2^{\lambda}$  day of January, 2009.

Scott R. Cooper, Judge

Mike McCabe, Commissioner

Lynn Lundquist, Jommissioner

1	BEFORE THE LAND USE BOARD OF APPEALS
2	OF THE STATE OF OREGON
3	
4	GARY EDER, MOLLIE EDER, NANCY KNOCHE,
5	KAREN LANG, DENNIS HILDERBRAND,
6	ANNETTE HILDERBRAND, VERN DEWEY,
7	DALE TOMPKINS, CAROLE HANCOCK,
8	TOM ALEXANDER and CURTISS BURRELL,
9	Petitioners,
10	
11	VS.
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13	CROOK COUNTY,
14	Respondent,
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16	and
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18	818 POWELL BUTTE, LLC,
19	Intervenor-Respondent.
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21	LUBA No. 2009-018
22	
23	FINAL OPINION
24	AND ORDER
25	
26	Appeal from Crook County.
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28	Jannett Wilson, Eugene, filed the petition for review and argued on behalf of
29	petitioners. With her on the brief was Western Environmental Law Center.
30	
31	Heidi Bauer, Assistant County Counsel, Prineville, filed a response brief and argued
32	on behalf of respondent. With her on the brief was David M. Gordon.
33	
34	Peter Livingston, Portland, filed a response brief and argued on behalf of intervenor-
35	respondent. With him on the brief was Schwabe, Williamson & Wyatt, P.C.
36	
37	HOLSTUN, Board Member; BASSHAM, Board Chair; RYAN, Board Member,
38	participated in the decision.
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40	REMANDED 12/17/2009
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42	You are entitled to judicial review of this Order. Judicial review is governed by the
43	provisions of ORS 197.850.

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### NATURE OF THE DECISION

Petitioners appeal a county decision that grants conditional approval for a development plan for Crossing Trails, a destination resort.

### **FACTS**

6 In early 2007 an application was submitted to request approval of a destination resort 7 in the Powell Butte area of Crook County, approximately six miles southwest of Prineville 8 and ten miles east of Redmond. That destination resort was to be named Seven Peaks. On February 28, 2008, the applicant (intervenor-respondent 818 Powell Butte LLC) advised the 9 10 county that the name of the proposed destination resort was being changed to Crossing Trails 11 Resort. Approximately two weeks later, on March 17, 2008, the applicant advised the county that it wished to withdraw its pending application. The applicant also included the following 12 13 request:

"We ask that the county please return all documents submitted and refund the application fee. Or, if you prefer, please let us know how and when to pick up the materials." Record 1950.

Eleven days later, on March 28, 2009, a new application was filed for approval of a destination resort named Crossing Trails on the same property.

Crossing Trails would occupy approximately 580 acres of exclusive farm use zoned land, and would include 500 single-family dwellings and 250 overnight units. The "amenities at the resort will include an 18-hole championship golf course, a clubhouse and associated golf facilities \* \* \* a trail system, swimming pool, athletic facilities and other recreational amenities." Record 1586.

The planning commission held a number of public hearings and ultimately approved the application with conditions. The planning commission decision was appealed by petitioners and the Oregon Department of Transportation (ODOT), who were allowed to split the \$6,850 appeal fee. After additional hearings before the county court, the county court

approved the application with conditions. Both ODOT and petitioners appealed that decision to LUBA. ODOT later dismissed its appeal, and we now resolve petitioners' appeal.

### FIRST ASSIGNMENT OF ERROR

Before turning to the first assignment of error, we first briefly describe the statutory framework for approval of destination resorts. The county is required to adopt maps and regulations to ensure that any destination resorts that the county approves comply with statutory requirements. ORS 197.455 identifies a number of areas that are not eligible for destination resort siting and requires that counties adopt comprehensive plan maps that show areas that are eligible for destination resorts. ORS 197.455 is the focus of the first assignment of error. A different statute, ORS 197.445, sets out detailed approval criteria and requirements for approval of destination resorts. The county adopted its Destination Resort Overlay Zone to implement and comply with ORS 197.445. Crook County Zoning Ordinance (CCZO) 18.116. CCZO 18.116 incorporates the ORS 197.445 destination resort standards and approval criteria that must be satisfied to approve individual applications for destination resort approval. As we explain in more detail below, an application for destination resort approval cannot be granted unless the property where the destination resort would be developed is first included on the county's comprehensive plan map that has been adopted to identify the areas in the county that are eligible for destination resort approval.

Under ORS 197.455, destination resorts cannot be sited closer than three miles from a "high value crop area." As defined by statute, a high value crop area is "an area in which

<sup>&</sup>lt;sup>1</sup> ORS 197.465 provides in part:

<sup>&</sup>quot;An acknowledged comprehensive plan that allows for siting of a destination resort shall include implementing measures which:

<sup>&</sup>quot;(1) Map areas where a destination resort described in ORS 197.445 (1) to (5) is permitted pursuant to ORS 197.455;

<sup>&</sup>quot;(2) Limit uses and activities to those defined by ORS 197.435 and allowed by ORS 197.445[.]"

1	there is a concentr	ration of commercial farms capable of producing crops or products with a
2	minimum gross v	value of \$1,000 per acre per year." ORS 197.435(2).2 In their first
3	assignment of err	or, petitioners allege the county erred by relying on the Crook County
4	Comprehensive Pl	an (CCCP) Destination Resort Map to conclude that Crossing Trails does
5	not violate the OR	S 197.455(1)(b)(B) requirement that a destination resort may not be sited
6	"within 3 miles of	a high value crop area."
7	As we not	ed briefly above, ORS 197.455 identifies a number of areas that are not
8	eligible for destin	nation resorts and requires that counties adopt maps as part of their
9	comprehensive pla	n that show areas that are eligible for destination resorts. The relevant text
10	of ORS 197.455 is	set out below:
11 12 13 14	des allo	destination resort must be sited on lands mapped as eligible for tination resort siting by the affected county. The county may not w destination resorts approved pursuant to ORS 197.435 to .467 to be sited in any of the following areas:
15 16 17 18	"(a)	Within 24 air miles of an urban growth boundary with an existing population of 100,000 or more unless residential uses are limited to those necessary for the staff and management of the resort.
19 20	"(b)	(A)On a site with 50 or more contiguous acres of unique or prime farmland * * *.
21		"(B) On a site within three miles of a high value crop area  * * *

<sup>&</sup>lt;sup>2</sup> The complete ORS 197.435(2) definition is set out below:

<sup>&</sup>quot;'High value crop area' means an area in which there is a concentration of commercial farms capable of producing crops or products with a minimum gross value of \$1,000 per acre per year. These crops and products include field crops, small fruits, berries, tree fruits, nuts or vegetables, dairying, livestock feedlots or Christmas trees as these terms are used in the 1983 County and State Agricultural Estimates prepared by the Oregon State University Extension Service. The 'high value crop area' designation is used for the purpose of minimizing conflicting uses in resort siting and does not revise the requirements of an agricultural land goal or administrative rules interpreting the goal."

"(c)	On predominantly	Cubic Foot	Site Clas	s 1 c	or 2	forestlands
	* * * which are not	subject to an	approved	goal	exce	ption.

- "(d) In the Columbia River Gorge National Scenic Area \* \* \*.
- "(e) In an especially sensitive big game habitat area \* \* \*.
- "(2) In carrying out subsection (1) of this section, a county shall adopt, as part of its comprehensive plan, a map consisting of eligible lands within the county. The map must be based on reasonably available information and may be amended pursuant to ORS 197.610 to 197.625, but not more frequently than once every 30 months. The county shall develop a process for collecting and processing concurrently all map amendments made within a 30-month planning period. A map adopted pursuant to this section shall be the sole basis for determining whether tracts of land are eligible for destination resort siting pursuant to ORS 197.435 to 197.467." (Emphasis added.)

In 2002, the county prepared and adopted a Destination Resort Map that shows areas eligible for destination resort siting. As the CCCP explains, in preparing that Destination Resort Map in 2002, the county excluded all the areas that are *ineligible* for destination resort siting under ORS 197.455(1)(a) through (e), and in that process attempted to exclude all areas that are ineligible because they are "within 3 miles of a high value crop area." CCCP 74-80.<sup>3</sup> As provided by ORS 197.455(2), that map cannot be amended "more frequently than once every 30 months" and must "be the sole basis for determining whether tracts of land are eligible for destination resort siting pursuant to ORS 197.435 to 197.467."

Petitioners argue that although the property where the proposed Crossing Trails destination resort would be developed is shown as eligible for destination resort siting on the county's acknowledged Destination Resort Map, before approving a development plan for Crossing Trails the county must nevertheless find that the Crossing Trails destination resort will not be sited "within 3 miles of a high value crop area." Petitioners contend that there is

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<sup>&</sup>lt;sup>3</sup> The discussion regarding how areas "within 3 miles of a high value crop area" were excluded appears at CCCP 76-78. The complete discussion of the mapping process appears at CCCP 74-80. Some of those pages of the CCCP are attached as an appendix to intervenor-respondent's brief, but in copying those pages the odd-numbered pages were omitted. The complete text of the CCCP is available on the county's website.

- evidence in the record that there is a high value crop area within three miles of the proposed
- 2 Crossing Trails.<sup>4</sup> Petitioner's argument relies in large part on amendments to ORS
- 3 197.455(1), which were adopted in 2003. The text of that amendment is set out below with
- 4 the deleted text in bracketed italics and the new text in bold letters:

"197.455. (1) A destination resort [shall] **must** be sited on lands mapped as eligible for destination resort siting by the affected county. [A map adopted by a] **The** county [shall] **may** not allow destination resorts approved pursuant to ORS 197.435 to 197.467 to be sited in any of the following areas:" Or Laws 2003, ch 812, § 3.

We understand petitioners to argue that in changing the text from "[a] map adopted by a county shall not allow destination resorts approved pursuant to ORS 197.435 to 197.467 to be sited in any of the following areas" to "[t]he county may not allow destination resorts approved pursuant to ORS 197.435 to 197.467 to be sited in any of the following areas" the legislature intended to impose an additional obligation that applies at the time individual destination resorts are proposed for land that is already shown as eligible for destination resorts on the adopted comprehensive plan map. Under petitioners' reading of ORS 197.455(1), even though the county took action to identify lands that are ineligible for destination resort siting under ORS 197.455(1)(a) through (e) when its Destination Resort Map was adopted in 2002, and that map shows the proposed site is within an area that is eligible for a destination resort if it meets the standards and criteria set out in CCZO 18.116, the county must again establish that the proposed site is still eligible under ORS 197.455(1)(a) through (e) when it approves individual requests for destination resort approval.

<sup>&</sup>lt;sup>4</sup> There is conflicting evidence regarding whether there currently are "commercial farms capable of producing crops or products with a minimum gross value of \$1,000 per acre per year" within three miles of the proposed destination resort. Because we agree with the county that under the relevant statutes its adopted Destination Resort Map conclusively resolves that question, we do not consider petitioners' evidentiary challenge.

If the first two sentences of ORS 197.455(1) are read in isolation, it might be possible to argue that the map that is required by the first sentence of ORS 197.455(1) is not determinative of a site's eligibility under the factors set out in ORS 197.455(1)(a) through (e), although such a reading renders the effort required to prepare the map of eligible sites of dubious value. But when those two sentences are read in context with the balance of ORS 197.455, petitioners' reading of the statute is not plausible. If the legislature had intended to require that counties apply the ORS 197.455(1)(a) through (e) exclusions and prepare the map required by ORS 197.455 and also revisit the ORS 197.455(1)(a) through (e) exclusions each time a destination resort application is filed and make findings regarding those exclusions, it would not have kept the language in ORS 197.455(2) that states "[a] map adopted pursuant to this section shall be the sole basis for determining whether tracts of land are eligible for destination resort siting pursuant to ORS 197.435 to 197.467." If such a twostep process is required by ORS 197.455, the map adopted pursuant to ORS 197.455 would not be the "sole basis for determining whether tracts of land are eligible for destination resort siting," that map would be one of two bases for making that determination. Petitioners' interpretation is inconsistent with the text of the last sentence of ORS 197.455(2).

The first assignment of error is denied.

### SECOND ASSIGNMENT OF ERROR

#### A. Introduction

Petitioners' second assignment of error is set out below:

"The county erred in approving a development that would significantly affect existing transportation facilities without requiring adequate mitigation, in violation of Goal 12 and local code requirements."

Our resolution of the second assignment of error would have been easier if petitioners' arguments under this assignment of error were more clearly developed. Similarly, our resolution of the second assignment of error would have been easier if the county's decision had done a clearer job of explaining what the applicable transportation

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planning standard is, what that standard requires of the applicant and why the county believes the proposal complies with that transportation planning standard. We have attempted to read petitioners' arguments fairly, without making arguments for petitioners. And we have attempted to read the county's decision fairly, without reading in legal theories that are not fairly stated.

Before turning to the parties' arguments, we briefly describe the heart of the parties' dispute under the second assignment of error. As we explain in more detail below, the traffic that Crossing Trails is expected to generate, unless mitigated, would cause two transportation facilities to fail that would not otherwise have failed during the relevant planning period. The traffic that Crossing Trails is expected to generate will also impact a number of other transportation facilities, but those transportation facilities are either already failing or projected to fail during the planning period, with or without the traffic that Crossing Trails is expected to generate.<sup>5</sup> There was no dispute below that under the 1998 version of OAR 660-012-0060, which the county incorporated into its Destination Resort Overlay Zone in 2002, the applicant is required to mitigate for the traffic impacts on the transportation facilities that Crossing Trails would cause to fail, in accordance with the incorporated rule language. With that required mitigation the additional and improved transportation facilities needed to handle the traffic from Crossing Trails will be in place when needed to avoid failure of those transportation facilities. However, the applicant took the position that it was not required to provide the kind of mitigation that is required by the incorporated version of OAR 660-012-0060 for Crossing Trails' traffic impacts on the transportation facilities that are failing or

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<sup>&</sup>lt;sup>5</sup> It is not clear to us whether any of the transportation facilities in the area are *already* failing. But due to the county's approval of other destination resorts in the area that are expected to generate a significant amount of traffic, a number of transportation facilities are projected to fail within the planning period, with or without Crossing Trails.

<sup>&</sup>lt;sup>6</sup> OAR 660-012-0060 is a section of the Land Conservation and Development Commission's (LCDC's) Transportation Planning Rule. We discuss that section the rule later in this decision.

1 projected to fail with or without the Crossing Trails traffic. With regard to transportation

2 facilities that are failing or projected to fail with or without Crossing Trails, the applicant

took the position that it would agree to contribute funding for improvements, provided that

4 funding contribution was limited to a contribution that is roughly proportional to Crossing

Trails' traffic impact on those transportation facilities that Crossing Trails will not cause to

fail. However, the applicant expressly took the position that it was not legally required by the

7 incorporated OAR 660-012-0060 rule language to provide any mitigation for transportation

8 facilities that Crossing Trails would not cause to fail. At the June 4, 2008 planning

commission hearing in this matter, the applicant presented the following argument:

"\* \* You recall the last time I addressed these questions I was making the case that because of the Coos County decision we were not required to provide compensation or provide funding [for] a transportation facility that's already operating below deployment [sic should be "the performance"] standard for that facility. \* \* \*

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"\* \* [A]Ithough we do not believe we are legally required to contribute to improvements for already failing infrastructure, we are willing to contribute proportional share contributions to take care of the additional traffic. We are contributing to those intersections and Chris can better explain exactly what that means in terms of dollars. But the point it that although there is a strong legal argument that would preclude us from having to pay for any intersection that is already failing and we're making worse, we are not going to rely on that argument. We are willing to make a proportional share contribution." Record 1250-53.

25 The "Coos County decision" referenced in the quoted text is a Court of Appeals' decision

that we discuss later in this opinion

<sup>7</sup> The applicant took that position in a June 3, 2008 memorandum from the applicant to the county's attorney. Record 1302-1311. The challenged decision expressly adopts the legal analysis in that June 3, 2008 memorandum, and we discuss the memorandum later in this opinion.

<sup>&</sup>lt;sup>8</sup> Although intervenor-respondent does not call our attention to the quoted testimony by applicant, petitioners do. Petition for Review 12.

Although it is less than clear from the parties' arguments, the applicant apparently also took the position that the needed improvements for those transportation facilities that are failing or projected to fail with or without the Crossing Trails need not be in place before Crossing Trails is developed.<sup>9</sup>

### B. Destination Resort Map and Destination Resort Overlay Zone

When the county adopted its Destination Resort Map and Destination Resort Overlay Zone in 2002, it adopted the following findings to address its obligation under OAR 660-012-0060 to ensure that those amendments would not significantly affect transportation facilities or, if they would, to provide the mitigation specified in the rule:

"\* \* \* [T]he amendments are consistent with OAR 660-012-0060, \* \* \* because the implementing regulations also require analysis of transportation impacts of specific resort proposals at the time of future development review. The County Court finds that the amendments have the potential to significantly affect a number of transportation facilities under OAR 660-012-0060(2) because the amendments permit the siting of destination resorts in Crook County, and the future resorts are likely to add traffic to existing facilities. However, the Court finds that OAR 660-012-0060(1) allows the Court to adopt the subject amendments so long as it 'limits allowed land uses to be consistent with the planned function, capacity, and performance standards of affected transportation facilities.' Since compliance with particular performance standards cannot be determined until a specific resort proposal is submitted, the Court finds that the amendments properly limit uses to be consistent with any applicable performance standards by requiring resort applicants to provide a traffic study \* \* \* at the time of development review to show that the proposed development will not reduce the level of service of any impacted transportation facility based on the performance standards set forth in the applicable transportation system plan \* \* \*." Petition for Review, Appendix C, finding 18.

As the above findings suggest, to ensure that its 2002 plan and land use regulation amendment decisions were consistent with the OAR 660-012-0060 transportation planning requirements in effect at that time, the county did two things. First, the Destination Resort

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<sup>&</sup>lt;sup>9</sup> Apparently the timing of those facility improvements and the timing of the applicant's financial contributions to construct those facility improvements was to be worked out between the applicant and ODOT in a memorandum of understanding.

1	Overlay Zo	ne that	was adopt	ed in 20	002 requires	that indi	ividual	applications	for	approva	ıl of
2	destination	resorts	include a	traffic	impact study	y. CCC	C 18.11	6.080(3)(g). <sup>1</sup>	10	Second,	the

- 3 county adopted as part of the Destination Resort Overlay Zone the version of OAR 660-012-
- 4 0060 that was in effect in 2002.<sup>11</sup> That OAR 660-012-0060 language is codified at CCZO
- 5 18.116.100(6) and is set out below:
- 6 "(a) The traffic study required by CCC 18.116.080(3)(g) illustrates that the
  7 proposed development will not significantly affect a transportation
  8 facility. A resort development will significantly affect a transportation
  9 facility for purposes of this approval criterion if it would, at any point
  10 within a 20-year planning period:

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- 12 "(iii) Reduce the performance standards of the transportation 13 facility below the minimum acceptable level identified in the 14 applicable transportation system plan (TSP).
  - "(b) If the traffic study required by CCC 18.116.080(3)(g) illustrates that the proposed development will significantly affect a transportation facility, the applicant for the destination resort shall assure that the development will be consistent with the identified function, capacity, and level of service of the facility through one or more of the following methods:
    - "(i) Limiting the development to be consistent with the planned function, capacity and level of service of the transportation facility;

<sup>&</sup>lt;sup>10</sup> CCZO 18.116.080(3)(g) sets out the required elements of a destination resort development plan. CCZO 18.116.080(3)(g) requires that a destination resort development plan include the following:

<sup>&</sup>quot;A traffic study which addresses: (1) impacts on affected county, city, and state road systems, and (2) transportation improvements necessary to mitigate any such impacts. The study shall be prepared by a licensed traffic engineer in coordination with the affected road authority (either the county department of public works or the Oregon Department of Transportation, or both[.]"

Or App 29, \_\_\_ P3d \_\_\_ (2009), it may be that the approach the county took in 2002 would be viewed as an improper deferral of OAR 660-012-0060. However, the county's 2002 decision is not before us in this appeal.

"(ii)	Providing	transportation	n facilities	adeq	uate to	suppo	rt the
	proposed	development	consistent	with	Chapter	660	OAR,
	Division 1	2; or					

- "(iii) Altering land use densities, design requirements or using other methods to reduce demand for automobile travel and to meet travel needs through other modes.
- "(c) Where the option of providing transportation facilities is chosen in accordance with subsection (6)(b)(ii) of this section, the applicant shall be required to provide the transportation facilities to the full standards of the affected authority as a condition of approval. Timing of such improvements shall be based upon the timing of the impacts created by the development, as determined by the traffic study or the recommendations of the affected road authority." (Emphases added.)

Under the 1998 version of OAR 660-012-0060, which was incorporated into CCC 18.116, the obligation to mitigate for destination resort traffic impacts in one or more of the three ways set out in CCC 18.116.100(6)(b) is only triggered if the destination resort traffic would "significantly affect a transportation facility." As relevant in this appeal, destination resort traffic will "significantly affect a transportation facility" if that traffic will "[r]educe the performance standards of the transportation facility below the minimum acceptable level identified in the applicable transportation system plan (TSP)." CCC 18.116.100(6)(a)(iii).

## C. The Meaning of "Significantly Affect a Transportation Facility"

Because the mitigation obligations set out in CCC 18.116.100(6)(b) only apply for transportation facilities that Crossing Trails will significantly affect, the meaning of "significantly affect a transportation facility" is a key consideration. Although petitioners suggest otherwise, the relevant definition of those words is the definition that is provided in the 1998 version of OAR 660-012-0060, which was incorporated into CCC 18.116.100(6), not the definition of those words in the current version of OAR 660-012-0060.<sup>12</sup>

<sup>&</sup>lt;sup>12</sup> Under the current version of OAR 660-012-0060, a comprehensive plan or land use regulation will "significantly affect" a transportation facility if it would "[w]orsen the performance of an existing or planned transportation facility that is otherwise projected to perform below the minimum acceptable performance standard \* \* \*."

1 The applicant relied in large part below on Dept. of Transportation v. Coos County, 2 158 Or App 568, 976 P2d 68 (1999). That decision concerned an earlier version of OAR 660-012-0060(2)(d) with language that was similar to the language in the 1998 version of 3 OAR 660-012-0060(2)(d). The applicable TSP in that case was the Oregon Highway Plan 4 5 (OHP), and at the time the OHP provided that the transportation facilities that would be 6 affected by the amendments at issue in that case should operate at level of service (LOS) C. 7 The applicant's traffic study in *Dept. of Transportation v. Coos County* showed that all of the 8 impacted transportation facilities were operating at LOS E and thus were already failing, with 9 or without the amendment. The amendment would have generated additional traffic for those 10 transportation facilities and thus would have worsened the existing failure, but it would not have caused a change in the existing LOS E. The Court of Appeals held that such worsening 11 of an already failing transportation facility does not result in a "significant affect," within the 12 13 meaning of the applicable version of OAR 660-012-0060(2)(d):

"It is unnecessary for us to resolve the full scope of the interpretive question that the parties pose in order to decide this case. The parties appear to agree that 'level of service,' although not defined in the rule, is a 'term of art,' and that it refers to six discrete incremental stages that are identified in descending order of sufficiency by letters of the alphabet. In order for there to be a 'significant effect' under OAR 660-012-0060(2)(d), whatever else an amendment may or may not have to do, it must 'reduce the level of service.' The amendment here does not do that. The level of service was at E before the enactment of the amendment, and it will remain within the E range after the amendment." 158 Or app at 572.

DLCD v. City of Warrenton, 37 Or LUBA 933 (2000) is another decision that was discussed below. That case concerned a land use regulation amendment and the 1998 version

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<sup>&</sup>lt;sup>13</sup> As we have already explained, the 1998 version of OAR 660-012-0060(2)(d) provided that a decision would "significantly affect a transportation facility" if the traffic that decision will generate would "[r]educe the performance standards of the transportation facility below the minimum acceptable level identified in the applicable transportation system plan (TSP). "

The version of OAR 660-012-0060(2)(d) at issue in *Dept. of Transportation* provided that a decision would "significantly affect a transportation facility" if the traffic that decision will generate would "[r]educe the level of service of the facility below the minimum acceptable level identified in the (TSP)."

of OAR 660-012-0060(2)(d). See n 13. The words "level of service" in OAR 660-012-

2 0060(2)(d) had been changed to "performance standards" but the rule language was otherwise

the same. DLCD also concerned the OHP, but the OHP had also been amended after the

4 Court of Appeals' Dept. of Transportation v. Coos County decision in two important ways.

5 As amended, the OHP no longer used LOS to establish the desired performance level of

6 transportation facilities and instead used volume to capacity ratio (V/C ratio). 14 In addition to

amending the OHP to replace LOS with V/C, the OHP was amended to include the following

action item "Action 1F.6," which provides

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"For purposes of evaluating amendments to transportation system plans, acknowledged comprehensive plans and land use regulations subject to OAR 660-012-0060, in situations where the [V/C ratio] for a highway segment, intersection or interchange is above the standards [established in the OHP] and transportation improvements are not planned within the planning horizon to bring performance to standard, the performance standard is to avoid further degradation. If an amendment to [an] acknowledged comprehensive plan or land use regulation increases the [V/C ratio] further, it will significantly affect the facility." OHP 82.

Based on the changed language in OAR 660-012-0060(2)(d) and the amendments to the OHP, we concluded that the no "further degradation" standard applies and that an amendment that would result in increase in the V/C ratio for a transportation facility that is already failing "significantly affects" that facility, within the meaning of OAR 660-012-0060(2)(d). 37 Or LUBA at 945-46. In doing so, we rejected arguments that ODOT's amendments to the OHP were an improper attempt by ODOT to amend the TPR and overrule the result in *Dept. of Transportation v. Coos County*. We also rejected the argument that the

<sup>&</sup>lt;sup>14</sup> As we explained in DLCD:

<sup>&</sup>quot;V/C ratios replace the LOS performance standard contained in the 1991 OHP. According to the 1999 OHP, LOS was defined by letter grades A-F, with each grade representing a range of V/C ratios. The OHP explains that V/C ratios are similar in concept, but represents LOS by specific V/C ratios to improve clarity and ease of implementation. OHP 72." 37 Or LUBA at 944 n 8.

Action 1F.6 non-degradation requirement should not be viewed as part of the "performance standards," as those words are used in OAR 660-012-0060(2)(d). *Id.* at 946.

Finally, in a 2001 decision that petitioners do not discuss at all and that intervenor-respondent relies on to question the soundness of our decision in *DLCD v. City of Warrenton*, the Court of Appeals agreed with LUBA that under the 1998 version of OAR 660-012-0060 a comprehensive plan or land use regulation amendment would "significantly affect" a transportation facility that was not already failing but was projected to fail during the planning period, if that amendment would cause the performance standard to be "violated sooner than it otherwise would be during the planning period." *Department of Transp. v. City of Klamath Falls*, 177 Or App 1, 9, 34 P3d 667 (2001).

To summarize, under the Court of Appeals' 1999 decision in *Dept. of Transportation* v. *Coos County* a comprehensive plan or land use regulation amendment that only worsened the performance of a transportation facility that had already failed would not "[r]educe the level of service of the facility below the minimum acceptable level" and therefore would not significantly affect a transportation facility under the TPR. Under LUBA's 2000 decision in *DLCD v. Warrenton*, a comprehensive plan or land use regulation amendment that reduces the V/C ratio of a transportation facility that is already failing would "[r]educe the performance standards of the transportation facility below the minimum acceptable level," within the meaning of OAR 660-012-0060. *See* n 13. Finally, under *Department of Transp.* v. *City of Klamath Falls*, a comprehensive plan or land use regulation amendment that hastens the failure of a transportation facility that is already projected to fail during the planning period "significantly affects" that facility, within the meaning of the 1998 version of OAR 660-012-0060.

### D. The Debate Below Regarding Transportation Impacts

The applicant's initial July 2, 2007 Transportation Impact Study (TIS) was prepared for Seven Peaks Resort by Ferguson & Associates (Ferguson). Supplemental Record 193-

1 337. The Ferguson TIS identified ten intersections in the vicinity of Crossing Trails that

were already failing or forecast to exceed state or county performance standards in the 2028

3 planning period. The Ferguson TIS concluded that the proposed destination resort would be

4 the cause of intersection failure in only one of those ten instances—Highway 26/Wiley Road.

The Ferguson TIS included proposed mitigation for seven of the ten intersections that would

be impacted by the proposal. Supplemental Record 239.

DKS Associates (DKS) conducted a review of the Ferguson TIS, on behalf of OTAK, the county's engineering firm. That review is dated October 26, 2007 and includes the following discussion:

"The only substandard operating condition triggered by the proposed development is at the Highway 126/Wiley Road intersection under the 2018 scenario. Several mitigation options are discussed but no improvements are identified as an impact of the proposed development. County and ODOT staff should consider an appropriate condition of approval for this location.

"The potential funding of the mitigation measures \* \* \* should be identified. This review should include all off-site improvements that are not the sole responsibility of the development applicant. It should be clarified if the County or ODOT expects to construct the improvement within the planning horizon, or if this is an unfunded improvement that would likely only be built with proportionate share funds collected from development applicants. It is important to establish that the identified off-site mitigations can reasonably be expected to be constructed within the timeframe at which they will be needed to serve traffic from the proposed development." Record 1697.

The DKS report is not expressed in TPR terminology, but it appears to assume that if the proposed destination resort will accelerate the failure of a transportation facility that would fail with or without the proposed destination resort, it would "significantly affect" that facility within the meaning of 18.116.100(6)(a) and therefore require one or more of the mitigation measures set out in 18.116.100(6)(b) be assured so that it would be in place when needed to

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<sup>&</sup>lt;sup>15</sup> The Supplemental Record submitted by the county did not include the entire Ferguson TIS. The omitted portion of the Ferguson TIS was submitted in a document entitled Second Supplemental Record but that document continues the pagination in the Supplemental Record, pages 280-337.

- handle the traffic to be generated by the proposal. That approach is consistent with the Court
- 2 of Appeals' decision in *Department of Transp. v. City of Klamath Falls*.
- In its application for Crossing Trails, which was received by the county on March 28,
- 4 2008, the applicant took the following position in its burden of proof:
- "Because Applicant does not propose an amendment to a functional plan, an acknowledged comprehensive plan or a land use regulation, OAR 660-012-0060 ('Plan and Land use Regulation Amendments') does not apply to the application. As the ODOT Development Review Guidelines, which are attached as Appendix D to the Ferguson study, explain at p. 3-3-2, 'The authority to require a Traffic Impact Study as part of a local land use review comes from the [CCC].'
- 12 "CCC 18.116,[100](6)(a) is modeled on an earlier version of the rule. Under the reasoning in *Dept. of Transportation v. Coos County* \* \* \* which analyzes 13 14 the version of OAR 660-012-0060 from which the County standard is taken, before there can be a finding of 'significant affect,' the resort itself must 15 'reduce the performance standards of the transportation facility below the 16 17 minimum acceptable level' in the TSP. If the transportation facility is already 18 failing or would fail without the development of the resort, it cannot be said 19 that the resort development has reduced or will reduce the performance 20 standards below the minimum acceptable level." Record 1615 (emphasis in 21 original).
- Another report was prepared by Group Mackenzie on March 28, 2008 to address traffic issues raised by Crossing Trails. Record 1702-08. That report includes the following discussion:
  - "Analysis presented in the TIA identifies a number of transportation facilities in the study area that are currently operating, or are projected to operate, below the minimum acceptable performance standards as identified in the applicable TSP regardless of the proposed development. In other words, the proposed development does not cause these facilities to exceed performance standards the CCC criterion necessitating mitigation.
- 31 "The Applicant acknowledges the proposed development impacts other study 32 area transportation facilities, especially those under ODOT jurisdiction. 33 However, it is important to note those transportation facilities (intersections), 34 with the exception of the OR 126/Wiley Road intersection, are projected to 35 exceed minimum acceptable performance standards by the end of the planning

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period, regardless of development impact.<sup>[16]</sup> Although the Applicant is not actually required by CCC Section 18.116.100(6)(a)(iii) to mitigate development impacts at these intersections, the Applicant will work with ODOT to reach an agreement concerning these intersections and proposes to enter into a memorandum of understanding (MOU) with ODOT to document the agreement." Record 1706.

The burden of proof and the Group Mackenzie report rely on the result in *Dept. of*8 Transportation v. Coos County and that reliance would appear to be inconsistent with the

9 Court of Appeals' decision in *Department of Transp. v. City of Klamath Falls* and LUBA's

10 decision in *DLCD v. City of Warrenton.*<sup>17</sup>

In an April 30, 2008 letter from ODOT to the county, ODOT appears to take the position that Crossing Trails will significantly affect seven intersections that are failing or would fail during the planning period, with or without Crossing Trails, and that the applicant should be required to mitigate those impacts in accordance with CCC 18.116.100(b). Record 1434-35. The letter lists the costs of that mitigation and suggests that if the required funding cannot be guaranteed from other sources to ensure the required mitigation will be in place when needed to serve Crossing Trails, the applicant should be required to provide that funding or the application should be denied. <sup>18</sup> Although ODOT's letter never mentions LUBA's decision in *DLCD v. Warrenton*, or the Court of Appeals' decision in *Department of Transp. v. City of Klamath Falls* it seems likely those decisions were the basis for ODOT's position that the applicant could be required to provide mitigation for intersections that were failing or would fail even if Crossing Trails is not built.

<sup>&</sup>lt;sup>16</sup> Earlier in the report, Group Mackenzie concluded that the proposal would be the cause of failure for a second intersection, OR 126/Parrish Lane. Record 1703.

 $<sup>^{17}</sup>$  As we note later in this opinion, the applicant argued that the nondegradation standard that LUBA found in OAR 660-012-0060(2)(d) and the OHP in *DLCD v. City of Warrenton* does not apply in this case for several reasons.

<sup>&</sup>lt;sup>18</sup> The combined cost of that mitigation would be almost 14 million dollars.

The applicant responded in a June 3, 2009 letter that *DLCD v. Warrenton* was not controlling here and that because the seven intersections identified in ODOT's letter would fail, with or without Crossing Trails, Crossing Trails does not significantly affect those intersections within the meaning of CCC 18.116.100(a)(iii). The applicant took the position that if Crossing Trails does not "significantly affect" those intersections, within the meaning of CCC 18.116.100(a)(iii), the applicant is not legally required to provide any mitigation at those intersections under CCC 18.116.100(b).

"\* \* If the performance standards of the transportation facility are already below the minimum acceptable level, expressed as a V/C ratio, then the proposed development will not reduce the standards below that level. In that case, the analysis in *Dept. of Transportation v. Coos County* \* \* \* discussed in Crossing Trails' burden of proof statement, applies. Under that analysis, as stated in the burden of proof statement, the proposed resort can be said to 'significantly affect' only two intersections: (1) Highway 126 and SW Wiley Road; and (2) Highway 126 and SW Parrish Lane." Record 1306.

As the above makes reasonably clear, there was generally agreement below that Crossing Trails will significantly affect the intersection of Highway 126 and SW Wiley Road and the intersection of Highway 126 and SW Parish Road, within the meaning of CCC 18.116.100(a)(iii), and therefore the applicant is obligated to mitigate its impact on those intersections under CCC 18.116.100(b). But there was confusion and disagreement below regarding whether Crossing Trails would "significantly affect" the other impacted

<sup>&</sup>lt;sup>19</sup> The basis for that position seems to be threefold. First, *DLCD v. Warrenton* concerned a decision that is subject to OAR 660-012-0060 (a land use regulation amendment), whereas the challenged decision is a conditional use permit that is not directly subject to OAR 660-012-0060. Second, the applicant cited two Court of Appeals decisions which it contended suggest that *DLCD v. Warrenton* may have been wrongly decided. Third, the applicant noted that following *DLCD v. Warrenton*, DLCD took action to amend the OAR 660-012-0060(2) definition of "significant effect" to make an amendment that worsened the performance of a alreadyfailing facility an amendment that significantly affects that facility. The applicant took the position that that amendment would not have been necessary if *DLCD v. Warrenton* was correctly decided. Record 1302-1307.

One of the Court of Appeals decisions that the applicant contended undermined LUBA's decision in DLCD v. Warrenton is Department of Transp. v. City of Klamath Falls. However, the applicant does not discuss the part of that decision where the Court of Appeals holds that an amendment that will hasten the failure of a transportation facility that is not failing but is projected to fail during the planning period "significantly affects" that facility, within the meaning of the 1998 version of OAR 660-012-0060.

- 1 intersections that have already failed or will fail during the planning period with or without
- 2 Crossing Trails and whether the applicant was legally obligated to mitigate those impacts in
- 3 the ways specified in CCC 18.116.100(b).<sup>20</sup> To add to the confusion, the applicant appears to
- 4 have been willing from the beginning to make a financial contribution to improve
- 5 transportation facilities that would be affected by Crossing Trails, while maintaining the
- 6 position that it was not legally obligated to make that proportional contribution or any
- 7 contribution to improve those transportation facilities that Crossing Trails would not cause to
- 8 fail.

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### E. The County's Decision

The county's decision acknowledges the disagreement between ODOT and the applicant concerning the scope of the applicant's mitigation obligation under CCC 18.116.100(b) and how much the applicant's financial contribution should be. The decision then provides the following explanation:

"ODOT acknowledges that Applicant has agreed to construct needed mobility improvements at Highway 126/SW Wiley Road and Highway 126/SW Parish Lane, as well as make a proportional share contribution to additional intersections. ODOT requests that if the application is approved, Applicant, ODOT and the County enter into a memorandum of understanding ('MOU') that requires the agreed improvements be constructed and the agreed contributions are made.

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"In a situation where an applicant and opponents rely on experts, the County occasionally commissions an independent expert to provide reliable advice. The county's own traffic consultant, OTAK, prepared a study \* \* \* which supports the data and conclusions of Ferguson and Group Mackenzie. OTAK calculated a similar amount (\$754,950). Using OTAK's higher number, plus amounts for road improvements and a proposed bridge replacement, Applicant's total contribution will be approximately \$1,455,000.

<sup>&</sup>lt;sup>20</sup> The applicant's focus on LUBA's decision in *DLCD v. City of Warrenton* seems misplaced since at least some and perhaps most of the affected intersections are projected to fail during the planning period but are not currently failing. Crossing Trails would "significantly affect" those intersections under *Department of Transp. v. City of Klamath Falls* if it would hasten the failure of those intersections.

"The TIA, Table E-1, shows intersections that do not meet operation standards today, in 10 years or in 20 years. Although many of the intersections are presently failing or will fail during the next 20 years, only the intersection of Highway 126 and SW Wiley Road is shown to fail as a result of the proposed resort. A subsequent study showed that eliminating left-hand turns on SW Wiley Road would redirect north- and south-bound traffic onto SW Parrish Lane, causing the intersection of Highway 126 and SW Parrish Lane to fail. Therefore, the proposed resort can be said to 'significantly affect' only two intersections: (1) Highway 126 and SW Wiley Road; and (2) Highway 126 and SW Parrish Lane.

"OTAK rebuts arguments made by ODOT in its submissions and effectively agrees with the legal reasoning contained in a Memorandum dated June 3, 2008 submitted by Applicant.[21] \* \* \* The Court specifically incorporates by reference the legal analysis in Applicant's June 3, 2008 memorandum and December 3, 2008 memorandum and concludes that not only does the proposed development not have a 'significant affect' on transportation facilities, as the term is used (in a technical sense) in CCC 18.116.100(6)(a), but the Court cannot constitutionally require the Applicant to contribute to make major improvements to already failing transportation facilities, given the small amount of traffic Applicant will be contributing to those facilities. \* \* \* " (Emphasis added.)<sup>22</sup>

The challenged decision goes on at some length discussing the constitutional implications under *Dolan v. City of Tigard*, 512 US 734, 114 S Ct 2309, 129 L Ed 2d 304 (1994), if the county were to require that the applicant fully fund solutions for the transportation facilities that would fail even if Crossing Trails is not built. But those constitutional issues simply do not arise unless the Crossing Trails traffic will "significantly affect" transportation facilities, within the meaning of CCC 18.116.100(6)(a), so that the applicant is legally obligated by CCC 18.116.100(6)(a) to mitigate the traffic impact of Crossing Trails in one of the three ways set out in CCC 18.116.100(6)(b).

The challenged decision imposes conditions of approval to ensure that needed improvements are made to the Highway 126/Wiley Road and Highway 126/Parrish Road

<sup>&</sup>lt;sup>21</sup> This is the memorandum submitted by the applicant and discussed above. See n 19 and related text.

<sup>&</sup>lt;sup>22</sup> There is no December 3, 2008 memorandum. The county likely intended to refer to a November 26, 2008 memorandum that appears at Supplemental Record 13-25.

- 1 intersections. The applicant appears to have agreed to pay the full cost of these
- 2 improvements, and we do not understand petitioners to challenge the adequacy of these
- 3 improvements to fully mitigate for the impact of Crossing Trails on these intersections.
- 4 Petitioners' arguments under the second assignment of error are directed entirely at the
- 5 adequacy of intervenor's proportionate financial contribution to mitigate for Crossing Trails'
- 6 traffic impact on those intersections that are currently failing or would fail even if Crossing
- 7 Trails is not constructed.

### F. Petitioners' Argument

Petitioners' substantive argument is set out below:

"Three traffic studies and testimony from ODOT and others underlie the county's findings that, in fact, a number of roads and intersections near the proposed site are already at or exceeding capacity, in part due to other destination resort proposals previously approved, which would, like this one, contribute thousands of daily vehicle trips to local and state roadways. The proposed resort would push two other intersections over the 'failure' point. Thus, under either the existing Goal 12 TPR or the 'old' TPR language incorporated into the county code, the proposed development would 'significantly affect' transportation facilities in the area.

"Therefore, the county is required to deny the proposal unless it can be shown that the proposed mitigation measures 'assure that the development will be consistent with the identified function, capacity, and level of service of the facility.' Relying on the second of the three allowed mitigation methods, the county conditioned approval of the proposal upon the applicant fully paying for some of the necessary improvements and partially paying for others.

"Significantly, however, the county did not find that that required mitigation would be adequate to fully fund the upgrades necessary, and, in fact, ODOT testified that that amount needed to actually construct the improvements would be *more than fourteen times* the amount the conditions of approval required the applicant to pay, and that neither state nor local funding had been identified to make up the difference. As both ODOT and the petitioners pointed out during the local appeal, the mitigation measures would <u>not</u> 'assure that the development would be consistent with the identified function, capacity, and level of service of the facilities,' as required by the TPR and thus, the county was required to deny the proposal. Rec. 735-36, 740-41." Petition for Review 11-12 (italics and underscoring in original).

Intervenor-respondent first argues that petitioners' arguments under the second assignment of error should be summarily rejected as insufficiently developed for review.<sup>23</sup> Although petitioners' argument could be stated more clearly, we believe it is adequate to express petitioners' position that the condition requiring the applicant to enter a MOU with ODOT and the county to provide its proportional share financial contribution for failing intersections is not sufficient to comply with CCC 18.116.100(6)(b)(ii), which requires that the applicant provide "transportation facilities adequate to support the proposed development consistent with Chapter 660 OAR, Division 12[.]"<sup>24</sup>

The argument quoted above can be understood to take the position that the only way the applicant can comply with CCC 18.116.100(6)(b)(ii) is to fully fund all of the improvements that will be necessary to correct the failing intersections, and any lesser financial contribution necessarily falls short of what is required under CCC 18.116.100(6)(b)(ii). That argument would be an erroneous construction of CCC 18.116.100(6)(b)(ii), since CCC 18.116.100(6)(b)(ii) and CCC 18.116.100(6)(c) are only concerned with the timing and availability of facility improvements when they are needed. Those rules are not concerned with who pays for those facilities. But the above argument relies in part on arguments advanced by ODOT at 740-41, where ODOT explained its concern with the applicant's proposal:

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<sup>&</sup>lt;sup>23</sup> Intervenor-respondent's argument is set out below:

<sup>&</sup>quot;The second assignment of error should be denied for the simple reason that petitioners' assumption that the proposed mitigation measures are inadequate is incorrect. Petitioners offer no argument or evidence in support of that assumption. ODOT's letters do not support it, \* \* \*" Intervenor-Respondent's Brief 16.

<sup>&</sup>lt;sup>24</sup> CCC 18.116.100(6)(c) elaborates:

<sup>&</sup>quot;Where the option of providing transportation facilities is chosen in accordance with subsection (6)(b)(ii) of this section, the applicant shall be required to provide the transportation facilities to the full standards of the affected authority as a condition of approval. Timing of such improvements shall be based upon the timing of the impacts created by the development, as determined by the traffic study or the recommendations of the affected road authority." (Emphasis added.)

"The proffered proportional share contribution does not comply with [CCC 18.116.100(6)(c)] since it does not include the timing of the improvements. Some of the improvements are needed at day of opening and other are needed through the study horizon year. The assurance of the necessary improvements being in place at the time of need is required to protect the safety of the traveling public." Record 740.

We understand ODOT to have argued below that the applicant's offer to pay a proportional share of the cost of improvements needed to correct failing intersections, by itself, is not sufficient to assure that "transportation facilities adequate to support the proposed development" will be provided at the time they are needed, as required under CCC 18.116.100(6)(b)(ii) and CCC 18.116.100(6)(c). Petitioners cite to ODOT's testimony in the petition for review, in support of their argument. Again, while that argument could have been stated more clearly in the petition for review, it is stated clearly enough so that summary rejection is not appropriate. Assuming Crossing Trails will "significantly affect" the failing intersections so that the applicant was obligated to mitigate that significant affect under CCC 18.116.100(6)(b), petitioners' argument is sufficient to challenge the adequacy of the county's decision, as conditioned, to ensure that the applicant's proposed mitigation is sufficient to comply with CCC 18.116.100(6)(b)(ii) and CCC 18.116.100(6)(c).

Our discussion under the second assignment of error to this point was necessary to set the backdrop for what has been the threshold question under the second assignment of error from the very beginning. That question is: Will the traffic that will be generated by Crossing Trails "significantly affect" the intersections that are either already failing or will fail during the planning period with or without the construction of Crossing Trails? Unless that is the case, the applicant has no obligation to mitigate under CCC 18.116.100(6)(b). In that case, it does not matter whether the proportional financial contribution that the applicant has agreed to provide is sufficient to comply with CCC 18.116.100(6)(b)(ii) and 18.116.100(6)(c).

As we have explained, the challenged decision finds that Crossing Trails traffic will not "significantly affect" those intersections, within the meaning of CCC

18.116.100(6)(a)(iii). In adopting that finding, the county expressly relied on the legal analysis that was supplied by the applicant. *See* n 19. In their petition for review, petitioners neither acknowledge that finding nor offer any challenge to the legal reasoning the county adopted in support of those findings. We seriously question that legal reasoning. However, based on petitioners' failure to challenge either the county's finding that Crossing Trails will not significantly affect those failing intersections and petitioners' failure to offer any response to the legal reasoning the county adopted in support of that finding, we deny the second assignment of error. To do otherwise would require that we (1) supplement petitioner's second assignment of error to read in a challenge to the county's finding that Crossing Trails will not significantly affect those failing intersections and (2) address the merits of the legal reasoning the county adopted in support of that finding with no legal argument from petitioners challenging that legal reasoning. We decline to do so.

The second assignment of error is denied.

### THIRD ASSIGNMENT OF ERROR

Applicants for development plan approval for a destination resort must pay an application fee. CCC 18.116.080(2).<sup>26</sup> Pursuant to CCC 18.172.050(2), "[f]iling of an application is not considered complete until all applicable fee(s) are paid to the director." In this case the applicant paid the required \$25,000 application fee when the application for

That reasoning is based almost entirely on criticism of LUBA's decision in *DLCD v. Warrenton*, a case that was concerned with a transportation facility that was already failing. In this case it appears that few if any of the affected transportation facilities are already failing, although a number of those facilities are projected to fail during the planning period, with or without Crossing Trails. It would appear that *Department of Transp. v. City of Klamath Falls* is likely the controlling precedent and that under that decision Crossing Trails significantly affects those transportation facilities and is required to mitigate that effect under CCC 18.116.100(6)(b)(ii) and 18.116.100(6)(c).

<sup>&</sup>lt;sup>26</sup> CCC 18.116.080(2) provides:

<sup>&</sup>quot;Following a preapplication conference, the applicant shall submit a development plan for review by the planning commission. Fifteen copies of the development plan shall be submitted to the planning department along with a filing fee set by the Crook County court to defray costs incidental to the review process."

- 1 Seven Peaks was submitted in early 2007. When that application was withdrawn and the
- 2 application for Crossing Trails was submitted, the applicant did not submit another \$25,000
- 3 application fee. Petitioners assign error to the county's failure to require the applicant to pay
- 4 a second application fee.
- 5 The record includes an e-mail message from the county planning director that
- 6 provides the following explanation for why the county did not require the applicant to pay a
- 7 second \$25,000 application fee:
- 8 "There is no cancelled check per se for Crossing Trails. They came in and
- 9 withdrew their application fee and took their booklets as Seven Peaks. No
- refund was given on the \$25,000 application fee because of the difficulties in
- refunding a check. They were required to submit an additional \$5,900+ for
- traffic impact analysis fees which were paid to OTAK, the county's
- consultant. No renaming check fee was required as they submitted a 'new
- application' with their previously paid fee kept for that application." Record
- 15 1519.
- The above seems to be a complete and adequate explanation for why the county did
- 17 not require the applicant to pay a second \$25,000 application fee. Although petitioners
- 18 contend that some work had been done by the county in processing the Seven Peaks
- application and that the county should be required to account for that work, they cite no CCC
- 20 requirement that the county do so. If the county wishes simply to apply the initial Seven
- 21 Peaks application fee to the Crossing Trails application that replaced it, we do not see why
- 22 the county cannot do so.
- The third assignment of error is denied.

### FOURTH ASSIGNMENT OF ERROR

- In their fourth assignment of error, petitioners contend the \$6,850 appeal fee the
- 26 county charged to process their appeal was excessive. ORS 215.422(1)(c) limits the appeal
- 27 fee a county may charge for land use permit appeals. The relevant text of OAR 215.422(1)(c)
- is set out below:

"The governing body may prescribe, by ordinance or regulation, fees to defray the costs incurred in acting upon an appeal from a hearings officer, planning commission or other designated person. The amount of the fee shall be reasonable and shall be no more than the average cost of such appeals or the actual cost of the appeal, excluding the cost of preparation of a written transcript. \* \* \*"

- 7 In a decision issued this date we remand the fee schedule that the county adopted in 2009.
- 8 1000 Friends of Oregon v. Crook County, \_\_\_ Or LUBA \_\_\_, (LUBA No. 2009-077,
- 9 December 17, 2009). However, because that decision concerns the 2009 appeal fee schedule,
- and petitioners' appeal fee was set by the 2008 appeal fee schedule, our decision in 1000
- 11 Friends of Oregon v. Crook County does not directly dispose of this assignment of error.

In Crook County the appeal fee that the county charges for land use appeals is based on a formula. In this case that appeal fee is \$1,850 plus 20 percent of the \$25,000 application fee. The formula that was used to set petitioners' appeal fee was adopted in 2008. Although it is not entirely clear from the parties' arguments, the appeal fee schedule that was adopted in 2008 and the appeal fee schedule that was adopted in 2009 were both based on the same June 13, 2008 staff report and are the same appeal fee schedule.

Because petitioners are making an "as applied" challenge of the appeal fee, petitioners have the "burden to establish a *prima facie* case that the appeal fee violated [ORS 215.422(1)(c)]." *Young v. Crook County*, 224 Or App 1, 3, 197 P3d 48 (2008). To carry that burden, petitioners sent an e-mail message to the county requesting that the county provide written documentation of the actual or average cost of their appeal. Record 183-84. The county responded to that e-mail message with its own e-mail message, advising that petitioners must make a public records request on a form, which was attached to the e-mail message. *Id.* The county contends that petitioners never completed and submitted the form. We therefore do not consider that requested evidence further.

Under the CCC, appeals of planning commission decisions are on the record. However, under CCC 18.172.110(12)(a)(vi) the county court may allow the record to be

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supplemented with additional evidence.<sup>27</sup> Therefore, at the time petitioners filed their appeal of the planning commission decision, they also filed a request that the county court supplement the record with the June 13, 2008 staff report. Record 150. The county denied that request, and gave the following explanation for its denial:

"The evidence [petitioners] sought to introduce related to Crook County appeals fees. The Court elected not to take evidence outside the record because the Court determined that the [petitioners] had not established that 'the supplement is necessary to take into consideration the inconvenience of locating the evidence at the time of the initial hearing, with such inconvenience not being the result of negligence or dilatory act by the moving party' pursuant to [CCC 18.172.110(12)(a)(vi)].[<sup>28</sup>] The Court noted that the staff memorandum had been available since June 13, 2008 \* \* \*." Record 11.

Although it is an exceedingly close question, in large part because petitioners neither acknowledge nor direct any arguments at the above-quoted findings, we conclude the county erred by not granting petitioners' request to supplement the record with the June 13, 2009 staff report. While petitioners apparently intended to challenge the appeal fee the county charges for appeals of planning commission destination resort decisions, if an appeal was necessary, petitioners could not know for sure that they would challenge the appeal fee until the planning commission rendered a decision in the applicant's favor. Under the county courts' interpretation and application of CCC 18.172.110(12)(a)(vi), all parties who believe the county's appeal fees exceed actual or average costs would have to make an evidentiary

<sup>&</sup>lt;sup>27</sup> CCC 18.172.110(12)(a)(vi) provides as follows:

<sup>&</sup>quot;The appellate body may, at its option, admit additional testimony and other evidence from an interested party or party of record to supplement the record of prior proceedings. The record may be supplemented by order of the appellate body or upon written motion by a party. The written motion shall set forth with particularity the basis for such request and the nature of the evidence sought to be introduced. Prior to supplementing the record, the appellate body shall provide an opportunity for all parties to be heard on the matter. The appellate body may grant the motion upon a finding that the supplement is necessary to take into consideration the inconvenience of locating the evidence at the time of initial hearing, with such inconvenience not being the result of negligence or dilatory act by the moving party."

<sup>&</sup>lt;sup>28</sup> See n 27.

showing that would be sufficient to establish the *prima facie* case that is required under

2 Young v. Crook County before the county renders an appealable decision and before those

3 parties know whether the decision will be an unfavorable decision that they wish to appeal.

4 The county court is entitled to deference in interpreting and applying the CCC

18.172.110(12)(a)(vi) "inconvenience" standard for supplementing the record. However, we

conclude that requiring such anticipatory and potentially unnecessary prima facie evidentiary

showings at all planning commission hearings would be "inconvenient" for both the parties

8 and the county under any reasonable understanding of the word.

We understand petitioners to have sought to supplement the record with the June 13, 2008 staff report so that they could argue that the staff report is not substantial evidence that the appeal fee established in the 2008 fee schedule for appeals of destination resorts does not exceed the average cost of such appeals. Given our decision in 1000 Friends of Oregon v. Crook County, petitioners are likely correct in that contention unless the county can identify other evidence that supports a conclusion that its \$6,850 appeal fee for appeals of destination resort decisions does not exceed the average cost of such appeals.

The fourth assignment of error is sustained.

17 The county's decision is remanded.

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#### 217-20-000846-PLNG-PLNG

November 10, 2020

OWNER: 818 Powell Butte, LLC

Eugene Gramzow 21059 Avery Lane Bend, Oregon 97702

Dear Mr. Gramzowanco

I sent an initial response to your request for an extension on **CU DR-08-0092, Crossing Trails Destination Resort on October 30, 2020.** The property is located at: Township 15 South, Range 15 East, Section 17, Tax lots 100, 106, 109, and 110. The Crook County Court approved a destination resort on approximately 580 acres of land zoned EFU-3 with a Destination Resort (DR) overlay on January 2, 2009, on an appeal to the Crook County Court (the Board of County Commissioners) from the Crook County Planning Commission.

The expiration date the County has used in responding to prior Crossing Trail extension requests has been November 3, 2010, the date of Crook County Court's decision on the Land Use Board of Appeals' (LUBA) remand. After further consultation with County Counsel, and based on the history of using the November 3, 2010 date as the final approval date for the Crossing Trails Destination Resort, I am revising the timeframe outlined in the October 30, 2020 letter.

Original approvals for destination resort developments are granted for four years. Crook County Code 18.172.060(2) authorizes the County Planning Director to grant up to four extensions. These extensions are granted for two- year time periods. Using the November 3, 2010 decision date, the original approval extended to November 3, 2014 (Four years after the final decision). Two-year extensions were granted as follows:

- 1. To November 3, 2016.
- 2. To November 3, 2018.
- 3. To November 3, 2020.

The fourth and final extension is granted through November 3, 2022. No extensions are allowed after that date.

Please let me know if you have any questions.

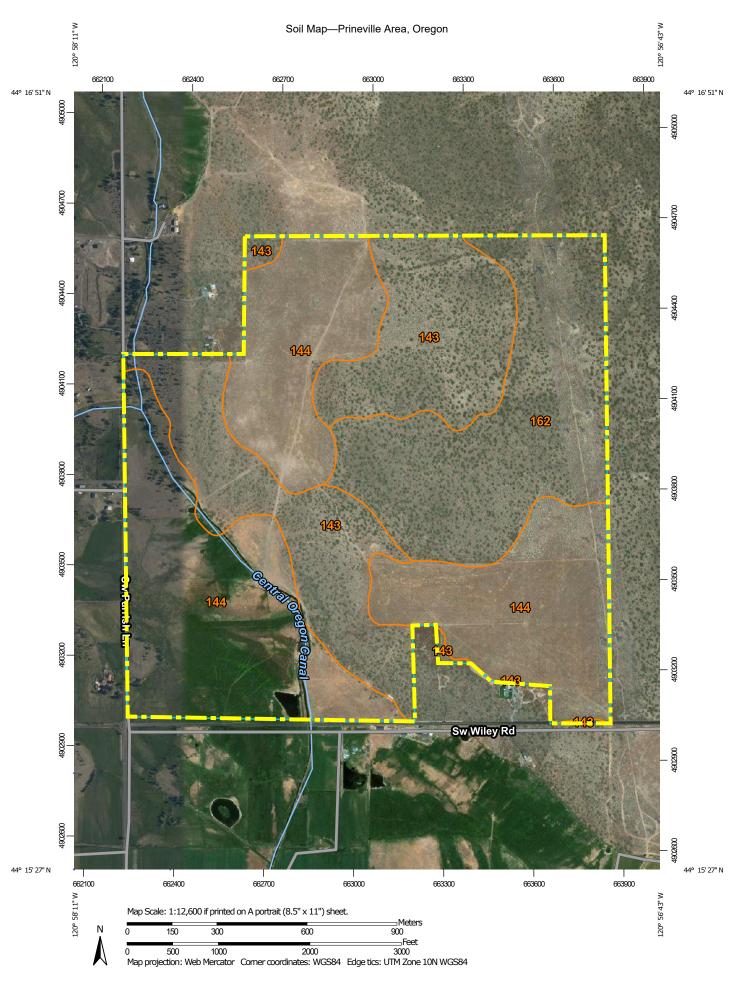
Respectfully

#### **Stakeholder Contacts:**

The proposed concept plan was issued to known stakeholders in order to solicit initial comments from each agency.

Below is a summary of the comments received from each agency:

- Central Oregon Irrigation District (COID) An initial meeting was held to discuss the proposed project along with the necessary process and procedures. COID indicated that a Water Management Plan would be required as part of the submittal. Engineering plan approval for any canal crossings would be required prior to any construction. A conceptual plans was submitted to Kelly O'Rouke and Leslie Clark for review and comment on January 4, 2021. Kelly O'Rourke responded that "Leslie (Clark) and I will review your conceptual development plan for the Crossing Trails Destination Resort and follow up with you next week with initial comments"
- Oregon Department of Fish and Wildlife (ODFW): A conceptual plan was submitted to COID on updated plan was submitted for review and comment on January 4, 2021. No response has been received.
- **Crook County Weed Master:** A conceptual plan was submitted to COID on updated plan was submitted for review and comment on January 4, 2021. No response has been received.
- **Crook County Roadmaster:** A conceptual plan was submitted to Bob O'Neal on January 4, 2022. Bob indicated "You need to go through Community Development with any submittals".
- Crook County Fire Marshall: A conceptual plan was submitted Russ Beboodt on January 4, 2022. Russ indicated "that due to the number of units, a second access would be required on the vacation villa loop and the workforce housing loop. Also, the two access points to the overnight accommodations are not separated far enough apart to function as two accesses."
   For reference, Russ forwarded a copy of the Oregon Fire Code Applications Guide.



# MAP LEGEND

#### Special Line Features Very Stony Spot Stony Spot Spoil Area Wet Spot Other W Soil Map Unit Polygons Area of Interest (AOI) Soil Map Unit Points Soil Map Unit Lines Special Point Features Area of Interest (AOI) Soils

# Water Features

Streams and Canals

**Borrow Pit** Clay Spot

Blowout

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Closed Depression

**Gravelly Spot** 

**Gravel Pit** 

Background

Marsh or swamp

Lava Flow

Landfill

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot Sandy Spot Severely Eroded Spot

Slide or Slip Sodic Spot

Sinkhole

#### Interstate Highways Major Roads Local Roads US Routes Rails **Transportation**

Aerial Photography

# MAP INFORMATION

The soil surveys that comprise your AOI were mapped at

Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

distance and area. A projection that preserves area, such as the Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Survey Area Data: Version 19, Sep 14, 2020 Prineville Area, Oregon Soil Survey Area:

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Jun 21, 2013—Jun 2,

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

### **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
143	Stukmond-Lickskillet-Redmond complex, 0 to 8 percent slopes	160.6	27.7%
144	Redmond-Stukmond complex, 0 to 8 percent slopes	285.1	49.1%
162	Searles-Lickskillet complex, 12 to 35 percent south slopes	134.8	23.2%
Totals for Area of Interest		580.6	100.0%



September 2, 2021

Mr. Hal Keever
Sun Communities, Inc.
c/o ATWELL, LLC
9755 SW Barnes Road, Suite 150
Portland, OR 97225

Subject: Infiltration Testing Summary & Preliminary Pavement Recommendations

**Proposed Crossing Trails Resort** 

Northeast of Wiley Road and Parrish Lane

Crook County, Oregon

Project No. 21132, Task 2

Dear Hal:

Wallace Group is providing this infiltration testing summary and preliminary pavement design recommendations letter for the proposed 580-acre Crossing Trails Resort, located southwest of the city of Prineville in Crook County, Oregon. The purpose of this letter is to help Sun Communities, Inc. (Client) assess the design of stormwater management systems for the project as well as provide preliminary pavement design recommendations for use in project budgeting and feasibility analyses.

#### **SCOPE OF SERVICES**

The scope of work was outlined in Wallace Group's proposal to ATWELL, LLC, dated June 29, 2021. Our scope of services included the following tasks:

- Data Review/Utility Clearance: We proposed to begin our study with a review of existing literature on the subsurface conditions within the vicinity of the site, available historical photos, and previous geotechnical work completed in the area. We notified the One-Call Utility Notification Service to identify any underground utilities near the site.
- Field Exploration: We proposed to explore subsurface conditions by excavating eight

   (8) backhoe test pits in locations within the proposed roadways and parking areas.
   Test pits were advanced to refusal depth or maximum equipment reach. Wallace
   Group geotechnical staff logged the subsurface explorations and collected soil

samples. Representative soil samples were retrieved, sealed, and transported to our laboratory for further evaluation, as warranted. All explorations were backfilled to surface grade upon completion of our work. Additionally, we performed six (6) single-ring infiltrometer tests in accordance with the Central Oregon Stormwater Manual (COSM) Method 4D.

• *Prepare Summary Memorandum*: Summary of findings and preliminary recommendations are presented in this technical letter.

#### **PROJECT DESCRIPTION**

Based upon our conversations with you, review of the conceptual layout, dated June 23, 2021, prepared by RVi, we understand that an approximate 580-acre parcel is proposed for development into a resort featuring Recreational Vehicle (RV) camping, vacation villas, workforce housing, glamping accommodations, amenity features, parks, ponds, and hiking trails. Additional improvements will include asphalt-paved access drives and parking areas, underground utility installations, stormwater collection and detention systems, septic systems, and landscaping.

#### **GEOLOGIC SETTING**

Prineville is in the southwest portion of the Blue Mountains Physiographic Province of northeastern Oregon. Topographically, the Blue Mountains increase in elevation to the east beginning with the foothills of the Ochoco Mountains north and northeast of Prineville (Elevation 2,860 feet, msl), and rising to glaciated peaks in the Wallowa Mountains (Elevation 7,800 feet+) of northeastern Oregon (Orr, et. al., 1992). The western portion of the province, near Prineville, is comprised of accreted oceanic terranes with fossil assemblages dating to late Cretaceous time (75 million years, Ma), overlain by thick accumulations of rhyolitic volcanic ash from the John Day Formation. The John Day Formation ash is thought to have originated in the western Cascade Mountains during late Oligocene to early Miocene time (30 to 20 Ma). Andesite and basaltic rocks of the late Eocene to early Oligocene age (45 to 35 Ma) form the foothills of the Ochoco Mountains immediately north of Prineville (Alt and Hyndman, 1978).

The subject site is located about 6 miles southwest of Prineville on a volcanic plateau, which rises approximately 300 feet above the city center. Subsurface materials consist of unconsolidated to semi-consolidated horizons of silty-sand, cemented silty-sand (hardpan or caliche), and basalt bedrock. The source of the volcanic deposits has been interpreted to be Grass Butte on which the site is located on the western flanks, deposited during the late Miocene or Pliocene (10 to 3 Ma).

Current geologic research and field studies have also postulated that the volcanic terrain around Prineville may have been formed to a significant extent by, and possibly lies within, a large caldera (McClaughry, et. al., 2009). In addition, an aquifer within the ancestral channel of the Crooked River has been identified beneath the volcanic plateau. A recently completed City of Prineville water well near the Prineville Airport encountered this ancient alluvial channel and previously untapped aquifer at a depth of approximately 300 feet.

#### **REGIONAL SEISMICITY**

There are two primary earthquake source types that have been identified in the Pacific Northwest region: Cascadia Subduction Zone sources and shallow crustal sources. These sources result in three earthquake source classifications: (1) shallow crustal earthquakes, (2) deep earthquakes with a moment magnitude greater than 7.0 on the seismogenic part of the subducting plate of the Cascadia Subduction Zone, and (3) an earthquake with a possible moment magnitude of 9.0 (+/- 0.2) on the seismogenic part of the interface between the Juan de Fuca Plate and the North American Plate on the Cascadia Subduction Zone. Historic seismic activity in the Prineville (southwestern Blue Mountains) area has been primarily from shallow crustal sources. This crustal activity has occurred in a diffuse pattern and does not appear to be aligned with known, active fault features.

Geomatrix prepared a report for the Oregon Department of Transportation (ODOT) on the seismic hazards in Oregon. Included in the report is a map of Quaternary Faults in Oregon. The ODOT Report identified two, isolated, east-west trending faults that displace late Quaternary deposits or geomorphic surfaces (less than 780,000 years old) in the Western Blue Mountains source zone. These faults are located approximately 25 miles southwest of Prineville near the northern margin of the Sisters fault zone. The Sisters fault zone is generally characterized as "inactive," however, this represents the dominant structural feature of the High Lava Plains and central Oregon. This zone of generally southeast-northwest trending faults extends over 130 miles from Bend to Steens Mountain in southeastern Oregon. Maximum earthquake magnitudes associated with crustal sources in the Western Blue Mountains zone range between Magnitude 6.0 and 6.6, depending on recurrence interval (Geomatrix, 1995).

#### **SEISMIC HAZARDS**

Central Oregon is in an area of low to moderate seismic risk. The 2019 Oregon Structural Specialty Code (OSSC), based on the 2018 International Building Code (IBC), requires that the development be designed to sustain the maximum considered earthquake. At the time this

report was written design subgrade elevations for developments were not yet established; however, we anticipate that proposed developments will be underlain by structural fill, native soil, and basalt bedrock. Structural fill and native, silty-sand soil underlain by basalt bedrock are not liquefiable during earthquakes. Other seismically related hazards, including lateral spreading, landslides and fault rupture are not applicable for this project. Based on our evaluation of the soil and rock encountered in the explorations and other published geologic information, we recommend the seismic soil profile for the upper 100 feet beneath the site be considered a 'Rock' profile. The associated Site Class is defined as B. Seismic design criteria is provided in **Appendix B**.

#### SUBSURFACE EXPLORATIONS

Subsurface conditions were explored on August 17, 2021. Eight (8) test pits, designated TP-01 through TP-08, were excavated to depths ranging from approximately 3-inches to 4.5-feet below ground surface (bgs). Test pits were excavated with a CAT backhoe operated by Terry Shine Excavating of Bend, Oregon. A Wallace Group geotechnical professional logged the test pits, and visually classified the materials encountered. The test pit logs, located in **Appendix A**, describe the materials encountered at each location explored. The soil and bedrock types between explorations are anticipated to be similar; however, variation should be expected. The stratigraphic contacts indicated at each point of exploration represent the approximate boundaries between soil and bedrock types. The approximate locations of the test pits are shown on **Figure 2**.

A more complete description of the sampling techniques and soil-classification terminology is presented in **Appendix A**.

#### SUBSURFACE CONDITIONS

Subsurface explorations generally encountered shallow deposits of native silty-sand and poorly graded sand that was underlain by calcite-cemented soil known locally as 'hardpan' and basalt bedrock. The silty-sand generally extends from the surface up to depths ranging from approximately 3-inches to 2.2-feet below ground surface (bgs). Below the soil, excavations encountered calcite-cemented soil and basalt bedrock. Refusal to excavation with the miniexcavator was encountered in the calcite-cemented material or basalt bedrock in all locations at depths ranging from approximately 3-inches to 4.5-feet bgs.

#### **CONCLUSIONS AND RECOMMENDATIONS**

Based on the results of field exploration, engineering analyses, and our local experience, it is our opinion that the site is suitable for the proposed development from a geotechnical perspective, provided the recommendations presented in this letter are incorporated into design and construction.

#### **EXCAVATIONS AND GRADING**

At the time this report was written preliminary grading plans were not yet available; however, we anticipate cuts will be required to build roads, amenities, and detention ponds. Cuts to remove the native silty-sand soil can generally be excavated with conventional earth-moving equipment such as backhoes and small excavators. The hardpan can typically be excavated with large excavators equipped with 'rock teeth' on their bucket under hard digging conditions. The basalt bedrock is generally competent to fractured and will likely require drilling and blasting or hydraulic-hammer chipping to remove. Utility trench installations will likely encounter bedrock that will need to be removed.

Excavations made in native soil should be classified as "Type C" material for OSHA excavation purposes. Sloping excavations for temporary slopes should not be greater than 1.5 to 1 horizontal to vertical (H to V). Permanent slopes should be at grades no steeper than 2 to 1 (H to V). We do not anticipate groundwater will influence subgrade, utility, or foundation excavations, unless construction occurs in an abnormally wet season and water is perched at the soil/bedrock interface.

#### **Site Preparation**

All surficial vegetation and organic matter should be removed within development areas for the project. We recommend a minimum vegetation stripping depth of six inches below development areas to remove roots and organic matter. We anticipate stripping depths will be deeper where large trees are removed and where dense groves of trees are or were located. After stripping the upper six-inches, we recommend scarification of the upper one-foot and removal of any roots larger than ½-inch diameter below proposed developed areas.

Once the organic soil and roots are removed, the subgrade should be moisture-conditioned and compacted with suitable compaction equipment. The subgrade in the development areas should be proof-rolled with a loaded 10-cubic yard-dump truck, or full 4,000-gallon water truck, to confirm subgrade stability prior to placing new fill. Any deflection observed during proof-rolls should be addressed. If unstable ("pumping") soil is observed in isolated areas, remedial

measures may consist of further compaction, including moisture-conditioning (aeration), or over-excavation and replacement with granular, structural fill. Pumping-soil conditions are more common when site preparation occurs during spring and after periods of prolonged precipitation. Wallace Group should observe proof-rolls and subgrade-bearing conditions prior to placing new structural fill.

#### **DRAINAGE CONSIDERATIONS**

Foundation and roadway performance is influenced by drainage conditions within and around the perimeter of the proposed developments. Adequate drainage should be provided and maintained throughout the life of the developments and water must not be allowed to infiltrate below the foundations or roadways. We recommend the ground surface is sloped to drain surface water away from the developments without ponding. The ground surface adjacent to foundations should be sloped away from foundations at least 5 percent in landscaped areas and 2 percent in hard-surfaced areas. We anticipate stormwater will be collected and discharged into on-site drainage swales.

#### **Infiltration Testing**

Infiltration testing was performed at six locations, designated IT-01 through IT-06, (see **Figure 2**, *Exploration Location Map*). The testing locations were selected near proposed parking areas where we anticipate potential stormwater disposal will be required. The infiltration testing was performed at a depth of approximately 6-inches bgs. The infiltration testing was conducted in general accordance with Method 4D-Single Ring Infiltrometer Method of the Central Oregon Stormwater Manual (COSM).

Field-measured infiltration rates in inches per hour and calculated, factored infiltration and permeability rates are shown in feet per second (per COSM) are shown below in **Table 1**.

Table 1
Single-Ring Infiltration Rate Summary

Infiltration Test	Location	Drawdown (in/hr)	Infiltration Rate (I)  (ft/sec)	Permeability Rate (K) (ft/sec)
IT-01	Proposed Swale	3.5	8.6 x 10 <sup>-4</sup>	2.5 x 10 <sup>-3</sup>
IT-02	Proposed Swale	2.0	3.5 x 10 <sup>-5</sup>	1.0 x 10 <sup>-4</sup>
IT-03	Proposed Swale	7.0	1.7x 10 <sup>-4</sup>	5.0 x 10 <sup>-4</sup>
IT-04	Proposed Swale	7.5	1.7x 10 <sup>-4</sup>	5.0 x 10 <sup>-4</sup>
IT-05	Proposed Swale	7.0	2.1 x 10 <sup>-4</sup>	6.1 x 10 <sup>-4</sup>
IT-06	Proposed Swale	6.0	2.1 x 10 <sup>-4</sup>	6.1 x 10 <sup>-4</sup>
IT 06				

Infiltration rates are limited by shallow basalt bedrock and calcite-cemented soil. Improved infiltration rates are typically improved by hydraulic hammering or blasting to fracture the basalt bedrock and calcite-cemented soil. We recommend performance testing drainage

facilities early in the construction process so that changes can be made, if necessary.

#### **PAVEMENT RECOMMENDATIONS**

At the time this report was written traffic data and vehicle counts were not yet available; however, we anticipate that traffic will likely consist of light automotive and recreational vehicles. Traffic during construction will consist of heavier vehicles with higher wheel loads and precautions should be taken to prevent damage to any newly constructed pavement.

The proof-rolled, inorganic-native-granular soil, and properly compacted new structural fill will provide, in our opinion, adequate subgrade support for asphalt-paved-parking areas associated with the development. Proper roadway section drainage, including site drainage to avoid ponding of water adjacent to roadway areas, will aid in reducing the potential for pavement distress. Structural fill in paved areas should consist of processed on-site native soil or imported sand and gravel meeting the requirements of **Table 2**, *Engineered Fill Specifications Summary*. Roadway subgrade fill should be placed in maximum 8-inch lifts, loose thickness, moisture-conditioned, and compacted to at least 92 percent of ASTM D1557.

Table 2
Engineered Fill Specification Summary

Material Type & Specifications	Placement Location	Placement Specifications
Base Course – Crushed Aggregate, ¾-inch minus, <8% passing #200 sieve.	Base Course Beneath Slabs on Grade, Pavement, and Footings	Maximum 6" lifts; compacted to minimum 95% of modified Proctor density (ASTM D1557) for floor slabs, footings, 92% for pavement, exterior slabs and sidewalks.
Structural Fill - Granular, Inorganic soil, 2-inch minus, <30% retained on ¾-inch sieve, <20% passing #200 sieve. Non-plastic. Maximum dry density of at least 90 pcf.	Beneath Slabs on Grade, Exterior Slabs, Pavement, Sidewalks, and Footings	Maximum 8" lifts; compacted to minimum 95% of modified Proctor density (ASTM D1557) for floor slabs, footings, all fill exceeding 5 feet vertical, 92% for pavement, exterior slabs and sidewalks.
Utility Trench and General Backfill  – 2-inch minus sand & gravel,  <20% passing the No. 200 sieve, or on-site soil materials.	Utility Trench Backfill, Foundation Wall Backfill	Maximum 8" lifts; compacted to minimum 95% of modified Proctor density (ASTM D1557) beneath footings, floor slabs, 92% for exterior pavement and sidewalks, 90% in non-structural areas.
Granular Landscape Fill – Inorganic soil, 3-inch minus.	Landscaped Areas	Fill depth less than 4 feet, compaction not required. Fill depths greater than 4 feet, compact to a minimum of 85% of modified Proctor (ASTM D1557).

Based on the project soil conditions and assumed traffic loads for asphalt-paved parking and access drives, we recommend a preliminary pavement section of 4-inches of Asphaltic Concrete (AC) underlain by 6-inches of crushed aggregate base course (ABC). Concrete pavement, if constructed, should consist of a minimum of 6-inches of concrete underlain by 8-inches of ABC. Concrete pavement is recommended for areas with heavy anticipated wheel loads, such as trash enclosures. As plans become finalized and traffic data is available, we can perform more detailed pavement analysis, if requested.

#### **Pavement Material Specifications**

The AC should be dense-graded, hot mix asphalt concrete (HMAC) as specified in ODOT Section 00745 plus the following supplemental specifications for density testing:

- The HMAC mix design for the roadways should be Level 2.
- The asphalt binder should be PG 64-28, or as specified by the Civil Engineer.
- The ABC should be ¾-inch minus, dense graded aggregate as specified in ODOT Sections 00641 and 02630.10.
- Road-mixed ABC is permitted per Section 00641. Road-mixed ABC allows water to be added on-site for compaction vs. pug-milled materials processing.
- The HMAC should be compacted to a minimum of 92 percent of the Rice theoretical maximum density. The ABC should be compacted to a minimum of 92 percent of ASTM D1557.

Supplemental Specifications for Density Testing: The roadway AC and ABC should be field tested for in-place density. Density test frequency should be based on a "roll-pattern" or standard Crook County procedures.

#### **LIMITATIONS**

Exploratory test pits performed for this study were placed to obtain a representative understanding of subsurface conditions for evaluation and design purposes. The study was performed using a mutually-agreed-upon scope of services. Variations from these conditions, not indicated by the borings are possible. These variations are sometimes enough to necessitate design modifications. ATWELL, LLC (Client) must recognize that it is impossible to predict every physical condition that will be encountered. If unexpected conditions are observed during construction, or if the size, type, elevation, or location of the proposed development should differ from the preliminary plans, we should be notified to review the recommendations contained in this report. The professional judgments expressed in this report meet the standard of care of our profession; however, no warranty is expressed or implied.

This report may be used only by the Client and only for the purposes stated within a reasonable time from its issuance, but in no event, later than three (3) years from the date of the report. Land or facility use, on- and off-site conditions, regulations, or other factors may change over time, and additional work may be required with the passage of time. Any party other than the Client or their design team who wishes to use this report shall notify the Wallace Group of such

intended use. Based on the intended use of the report, the Wallace Group may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the Client or anyone else will release Wallace Group from any liability resulting from the use of this report by any unauthorized party.

The contractor selected for this project is responsible for supervision and direction of the actual work performed by his employees, subcontractors and agents. Wallace Group will use accepted geotechnical engineering and testing procedures; however, our testing and observations will not relieve the contractor of his primary responsibility to produce a completed project conforming to the project plans and specifications.

This firm does not practice or consult in the field of safety engineering. We do not direct the contractor's operations, and we cannot be responsible for the safety of personnel other than our own on the site. The safety of others is the responsibility of the contractor. The contractor should notify the owner if he considers any of the recommended actions presented herein unsafe.

Respectfully submitted,

Wallace Group, Inc.

Adam Larson, P.E.

Project Geotechnical Engineer



Ľisa M. Splitter, P.E. G.E.

Senior Geotechnical Engineer

#### **ATTACHMENTS**

Figure 1: Vicinity Map

Figure 2: Exploration & Infiltration Testing Location Map

Appendix A: Test Pit Logs

Appendix B: Seismic Design Criteria

#### **REFERENCES**

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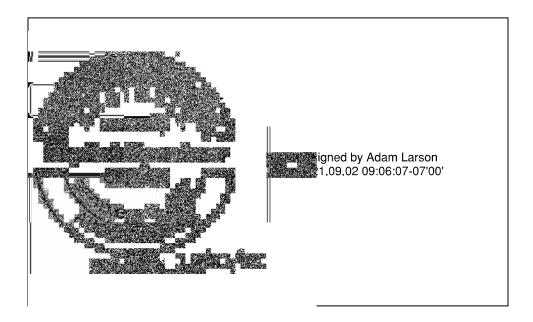
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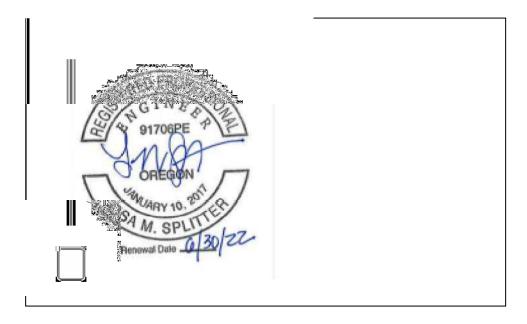
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This report has been authored and reviewed by the undersigned, respectively. This report is void if the original seal(s) and signature(s) are not included.



Adam Larson, P.E.

Project Geotechnical Engineer

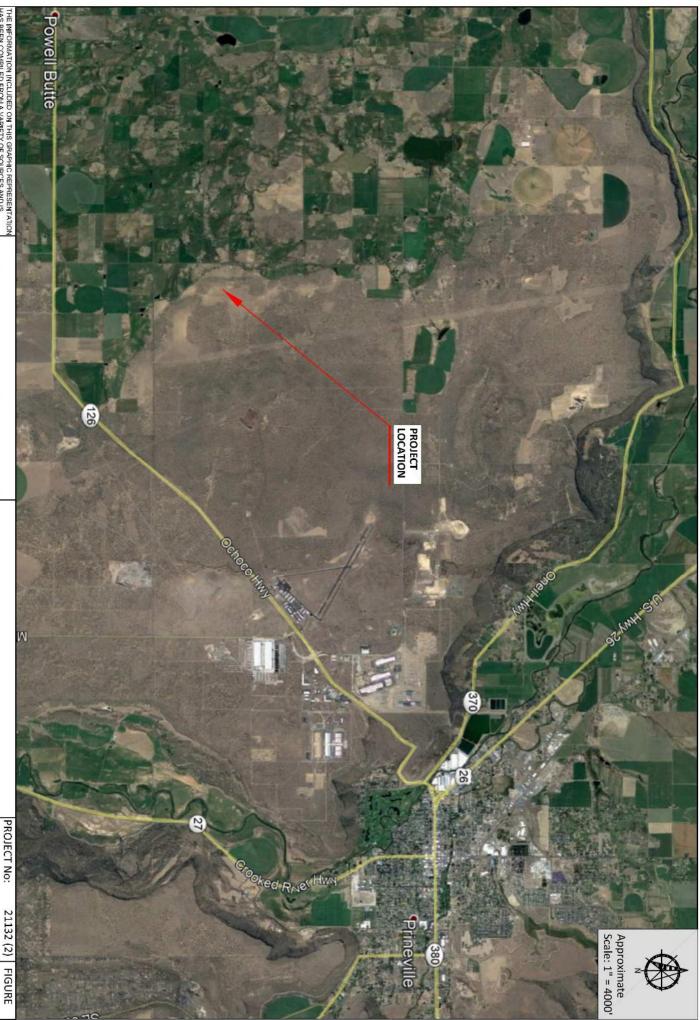


Lisa M. Splitter, P.E., G.E.

Senior Geotechnical Engineer



# **FIGURES**



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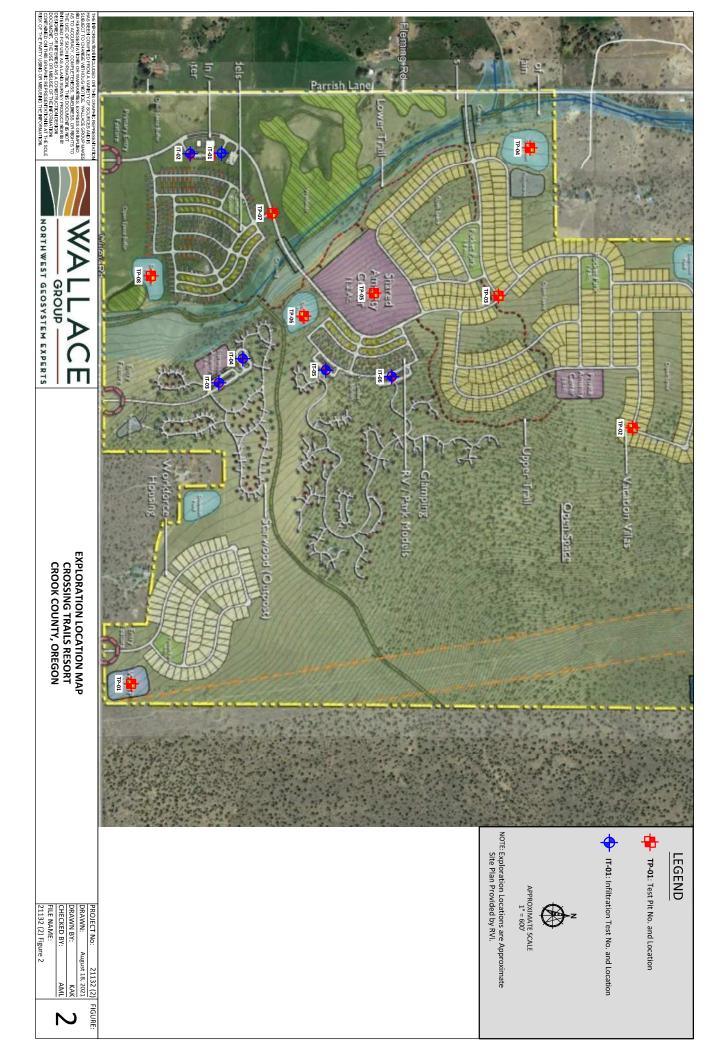
NORTHWEST GEOSYSTEM EXPERTS

VICINITY MAP
CROSSING TRAILS RESORT
CROOK COUNTY, OREGON

DRAWN: August 18, 2021
DRAWN BY: KAK
CHECKED BY: AML
FILE NAME:

21132 (2) Figure 1

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## **APPENDIX A**

## APPENDIX A FIELD EXPLORATION SUMMARY

#### **GENERAL**

Subsurface conditions for the Crossing Trails Resort project, located in Crook County, Oregon, were explored by excavating 8 test pits, at the approximate locations shown on **Figure 2**, *Exploration Location Map*. Test pit logs are included in this appendix. The test pit explorations were performed on August 17, 2021. The procedures used to observe the test pits, and collect soil samples, and other field techniques are described in detail in this appendix. Unless otherwise noted, all soil sampling and classification procedures followed local engineering practices which are in general conformance with relevant ASTM procedures and the Unified Soil Classification System (USCS). "General conformance" means that certain local and common excavation and descriptive practices and methodologies have been followed.

#### **TEST PITS**

Eight (8) test pits were excavated by Terry Shine Excavating of Bend, Oregon. The test pits were observed by a Wallace Group geotechnical professional who maintained a detailed log of subsurface conditions and materials encountered and collected soil samples at appropriate depth intervals. The test pits were excavated to depths ranging between approximately 2- to 4.5-feet below ground surface (bgs). Bulk samples were retrieved for laboratory testing.

Dynamic Cone Penetration (DCP) testing was conducted to evaluate the relative density of the native overburden soils. DCP procedures are generally described in ASTM Special Technical Publication 399, which have been modified by Wallace Group to provide better representation of soil relative density or stiffness. During the DCP test, a 1.5-inch diameter steel cone is driven up to 18 inches into the soil using a 15-pound hammer dropped from a height of 18 inches. The number of blows is recorded and can be roughly correlated to the Standard Penetration Test. The number of blows required to drive the cone 12 inches into the soil provides a measure of the relative density of granular soils such as sand and gravel, and the strength of cohesive soils.

#### **SAMPLING**

Disturbed soil samples were retrieved from the test pits. The samples were classified and sealed in plastic bags for further examination and physical testing in our laboratory for gradation and moisture content.

#### **TEST PIT LOGS**

Figure A is a Legend explaining the information and symbols presented on the test pit logs. The logs of the test pits are presented on Figures A-1 through A-8. The logs describe the materials encountered and the depths where materials and/or characteristics of these materials changed, although the changes may be gradual. Where material types and descriptions changed between

samples, the contacts were interpreted. On each test pit, the types of samples collected (including their identification number) are reported, including laboratory test results and DCP blow counts.

#### **MATERIAL DESCRIPTIONS**

Soil samples were visually classified in the field as they were collected. Consistency, color, relative moisture, degree of plasticity, and other distinguishing characteristics of the samples were noted. Afterwards, the samples were re-examined in the laboratory, various standard classification tests were conducted, and the field classifications were modified where necessary. The terminology used in the soil classifications and rock descriptions are defined beginning on Page 3 and are included under material description on each log.

#### **GROUNDWATER**

Groundwater was not encountered during subsurface exploration for this project.

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#### TERMINOLOGY USED TO DESCRIBE SOIL AND ROCK

Soils exist in mixtures with varying proportions of components. The predominant soil, i.e., greater than 50 percent based upon total dry weight, is the primary soil type and is capitalized in our log descriptions, e.g., SAND, GRAVEL, SILT or CLAY. Lesser percentages of other constituents in the soil mixture are indicated by use of modifier words in general accordance with the Visual-Manual Procedure (ASTM D2488-93). "General Accordance" means that certain local and common descriptive practices have been followed. In accordance with ASTM D2488, group symbols (such as GP or CH) are applied on that portion of the soil passing the 3-inch (75mm) sieve based upon visual examination. The following describes the use of soil names and modifying terms used to describe fine- and coarse-grained soils.

#### Fine - Grained SOILS (More than 50% fines passing 0.074 mm, #200 sieve)

The primary soil type i.e. SILT or CLAY is designated through visual – manual procedures to evaluate soil toughness, dilatancy, dry strength, and plasticity. The following describes the terminology used to describe fine - grained soils and varies from ASTM 2488 terminology in the use of some common terms.

Primary soil NAME, adjective and symbols				
			Plasticity <u>Description</u>	Plasticity <u>Index (PI)</u>
		ORGANIC		
SILT	CLAY	SILT & CLAY		
ML & MH	CL & CH	OL & OH		
SILT		Organic SILT	Non-plastic	0 - 3
SILT		Organic SILT	Low plasticity	4 - 10
Clayey SILT	Silty CLAY	Organic clayey SILT	Medium Plasticity	>10 – 20
Clayey SILT	CLAY	Organic silty CLAY	High Plasticity	>20 – 40
Clayey SILT	CLAY	Organic CLAY	Very Plastic	>40

Modifying terms describing secondary constituents, estimated to 5 percent increments, are applied as follows:

Description	% Composition
Trace sand, trace gravel	5% - 10%
With sand; with gravel	15% - 25%
Sandy, or gravelly	30% - 45%

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**Borderline Symbols**, for example CH/MH, are used where soils are not distinctly in one category or where variable soil units contain more than one soil type. Dual Symbols, for example CL-ML, are used where two symbols are required in accordance with ASTM D2488.

**Soil Consistency.** Consistency terms are applied to fine-grained, plastic soils (i.e., PI > 4). Descriptive terms are based on direct measure or correlation to the Standard Penetration Test N-value as determined by ASTM D1586-84, as follows.

Consistancy Town	CDT N value	<b>Unconfined Compressive Strength</b>	
Consistency Term	SPT N-value	Tons/sq.ft.	kPa
Very soft	Less than 2	Less than 0.25	Less than 24
Soft	2 - 4	0.25 - 0.5	24 - 48
Medium stiff	5 - 8	0.5 - 1.0	48 – 96
Stiff	9 - 15	1.0 - 2.0	96 – 192
Very stiff	16 - 30	2.0 - 4.0	192 – 383
Hard	Over 30	Over 4.0	Over 383

Note: For SILT with low to non-plastic behavior, (i.e., PI < 4) a relative density description is applied.

#### Coarse-Grained Soils (less than 50% fines)

Coarse-grained soil descriptions, i.e., SAND or GRAVEL, are based on that portion of materials passing a 3-inch (75mm) sieve. Coarse-grained soil group symbols are applied in accordance with ASTM D2488 based upon the degree of grading, or distribution of grain sizes of the soil. For example, well graded sand containing a wide range of grain sizes is designated SW; poorly graded gravel, GP, contains high percentages of only certain grain sizes. Terms applied to grain sizes follow.

	Particle Diameter	
	Inches	Millimeters
Sand (S)	0.003 - 0.19	0.075 - 4.8
Gravel (G)	0.19 - 3.0	4.8 - 75
	Additional Constituents	
Cobble	3.0 - 12	75 - 300
Boulder	12 - 120	300 - 3050
Rock Block	>120	>3050

The primary soil type is capitalized, and the amount of 'fines' in the soil are described as indicated by the following examples. Other soil mixtures will provide similar descriptive names.

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#### **Example: Coarse-Grained Soil Descriptions with Fines**

10% fines

5% fines	(Dual Symbols)	15% to 45% fines
GRAVEL with trace silt: GW or GP	GRAVEL with silt, GW-GM	Silty GRAVEL: GM
SAND with trace clay: SW or SP	SAND with clay, SP-SC	Silty SAND: SM

Additional descriptive terminology applied to coarse-grained soils follow.

#### **Coarse-Grained Soil Containing Secondary Constituents**

Clean	< 5% fines
With sand or with gravel	15% - 25% sand or gravel
Sandy or gravelly	30% - 45% sand or gravel
With cobbles; with boulders	Any amount cobbles or boulders.
	Additional terms may be used to describe amount
	including abundant, scattered.

Cobble and boulder deposits may include a description of the matrix soils, as defined above.

**Relative Density** terms are applied to granular, non-plastic soils based on direct measure or correlation to the Standard Penetration Test N-value as determined by ASTM D1586.

Relative Density Term	SPT N-value
Very loose	0 - 4
Loose	4 - 10 10 - 30 30 - 50
Medium dense	10 - 30
Dense	30 - 50
Very dense	> 50

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#### **Terminology Used to Describe Rock**

#### Scale of Rock Strength

Description	Designation	Unconfined Compressive Strength, psi	Unconfined Compressive Strength, MP	Field Identification
Very low strength	R1	100 – 1000	0.7 – 7	Crumbles under firm blows with point of geology pick; can be peeled by a pocketknife.
Low strength	R2	1,000 – 4,000	7 – 28	Can be peeled by a pocketknife with difficulty; shallow indentation made by firm blows of geology pick.
Moderate strength	R3	4,000 – 8,000	28 – 55	Cannot by scraped or peeled with a pocketknife; specimen can be fractured with a single firm blow of geology hammer.
Medium high strength	R4	8,000 – 16,000	55 – 110	Specimen requires more than one blow with a geology hammer to fracture it.
High strength	R5	16,000 – 32,000	110 – 120	Specimen requires many blows of geology hammer to fracture it.
Very high strength	R6	> 32,000	> 220	Specimen can only be chipped with geology pick.

#### **Descriptive Terminology for Joint Spacing or Bedding**

Descriptive Term	Spacing of Joints	
Very close	Less than 2 inches	< 50 mm
Close	2 inches - 1 foot	50 mm – 300 mm
Moderately close	1 foot - 3 feet	300 mm – 1 m
Wide	3 feet -10 feet	1 m – 3 m
Very wide	Greater than 10 feet	> 3 m

#### **Descriptive Terminology for Vesicularity**

Descriptive Term	Percent voids by volume
Dense	< 1%
Slightly vesicular	1 - 10%
Moderately vesicular	10 – 30%
Highly vesicular	30 – 50%
Scoriaceous	> 50%

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#### **Correlation of RQD and Rock Quality**

Rock Quality Descriptor	RQD Value
Very poor	0 – 25
Poor	25 - 50
Fair	50 - 75
Good	75 - 90

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#### **SCALE OF ROCK WEATHERING**

Stage	Description	Quality Distinction
Fresh	Rock is fresh, crystals are bright, a few joints may show slight staining because of ground water.	Discoloration
Very Slight	Rock is generally fresh, joints are stained, some joints may have thin clay coatings, crystals in broken faces show bright.	Discoloration only on major discontinuity surfaces <sup>i</sup>
Slight	Rock is generally fresh, joints are stained, and discoloration extends into rock up to 1 in. Joints may contain clay. In granitoid rocks some feldspar crystals are dull and discolored. Rocks ring under hammer if crystalline.	Discoloration on all discontinuity surfaces and on rock
Moderate	Significant portions of rock show discoloration and weathering effects. In granitoid rocks, most feldspars are dull and discolored; some are clayey. Rock has dull sound under hammer and shows significant loss of strength as compared with fresh rock.	Decomposition and/or disintegration < 50% of rock ii
Moderately Severe	All rock, except quartz discolored or stained. In granitoid rocks, all feldspars dull and discolored and majority show kaolinization. Rock shows severe loss of strength and can be excavated with geologist's pick. Rock goes "clunk" when struck.	Decomposition and/or disintegration > 50%, but not complete
Severe	All rock, except quartz, discolored or stained. Rock "fabric" is clear and evident but reduced in strength to strong soil. In granitoid rocks, all feldspars kaolinized to some extent. Some fragments of harder rock usually left, such as corestones in basalt.	Decomposition and/or disintegration > 75%, nearly complete
Very Severe	All rock, except quartz, discolored or stained. Rock "fabric" is discernible, but mass effectively reduced to "soil" with only fragments of harder rock remaining.	Decomposition and/or disintegration 100% with structure/fabric intact
Complete	Rock is reduced to "soil". Rock "fabric" is not discernible, or only in small scattered locations. Quartz may be present as dikes or stringers.	Decomposition and/or disintegration 100% with structure/fabric destroyed

NOTES:

<sup>&</sup>lt;sup>1</sup> Discontinuities consist of any natural break (joint, fracture or fault) or plane of weakness (shear or gouge zone, bedding plane) in a rock mass

Decomposition refers to chemical alteration of mineral grains; disintegration refers to mechanical breakdown

iii Stage and description from ASCE Manual No. 56 (1976), quality distinction from Murray (1981)

Wallace Group Inc. 62915 NE 18th Street, Suite 1 Bend, OR 97701

CLIENT ATWELL, LLC. PROJECT NAME Crossing Trails Resort

PROJECT NUMBER 21132-2 PROJECT LOCATION Crook County, OR

### LITHOLOGIC SYMBOLS (Unified Soil Classification System)

SM: USCS Silty Sand

SP: USCS Poorly-graded Sand

#### **SAMPLER SYMBOLS**

#### WELL CONSTRUCTION SYMBOLS

#### **ABBREVIATIONS**

LL - LIQUID LIMIT (%)
PI - PLASTIC INDEX (%)

MC - MOISTURE CONTENT (%)

DD - DRY DENSITY (PCF)

NP - NON PLASTIC

FINES - PERCENT PASSING NO. 200 SIEVE PP - POCKET PENETROMETER (TSF)

OC - ORGANIC CONTENT (%)

TV - TORVANE

PID - PHOTOIONIZATION DETECTOR UCCS- UNCONFINED COMPRESSION

ppm - PARTS PER MILLION

Water Level at Time of

✓ Drilling, or as Shown✓ Water Level at End of

Drilling, or as Shown

Water Level After 24

Hours, or as Shown

#### **TEST PIT NUMBER TP-01** Wallace Group Inc. 62915 NE 18th Street, Suite 1 Bend, OR 97701 PAGE 1 OF 1 GROUP — HORTHWEST GEOSYSTEM EXPERTS PROJECT NAME Crossing Trails Resort CLIENT ATWELL, LLC. PROJECT LOCATION Crook County, OR PROJECT NUMBER 21132-2 DATE STARTED 8/17/21 COMPLETED 8/17/21 GROUND ELEVATION \_\_\_ EXCAVATION CONTRACTOR Terry Shine Excavating **GROUND WATER LEVELS:** EXCAVATION METHOD CAT Backhoe AT TIME OF EXCAVATION \_---LOGGED BY KAK CHECKED BY AML 24HRS AFTER EXCAVATION \_---NOTES SAMPLE TYPE NUMBER GRAPHIC LOG USCS DEPTH (ft) MATERIAL DESCRIPTION 0.0 SILTY SAND, cobbles, dry to slightly moist, tan, fine to coarse grained, subangular to subrounded, minor roots, weak cementation SM Refusal at 2.0 feet on calcite cemented soil. Bottom of test pit at 2.0 feet.

#### **TEST PIT NUMBER TP-02** Wallace Group Inc. 62915 NE 18th Street, Suite 1 Bend, OR 97701 GROUP — HORTHWEST GEOSYSTEM EXPERTS PROJECT NAME Crossing Trails Resort CLIENT ATWELL, LLC. PROJECT NUMBER 21132-2 PROJECT LOCATION Crook County, OR DATE STARTED 8/17/21 COMPLETED 8/17/21 GROUND ELEVATION EXCAVATION CONTRACTOR Terry Shine Excavating **GROUND WATER LEVELS:** EXCAVATION METHOD CAT Backhoe AT TIME OF EXCAVATION \_---LOGGED BY KAK CHECKED BY AML 24HRS AFTER EXCAVATION \_---NOTES SAMPLE TYPE NUMBER GRAPHIC LOG USCS DEPTH (ft) MATERIAL DESCRIPTION 0.0 SILTY SAND, cobbles, slightly moist, brown, fine to coarse grained, subangular to subrounded SM 2.0 SILTY SAND WITH GRAVEL, cobbles, slightly moist, tan with white, fine to coarse grained, angular to subangular, 2.5 weak cementation SM Refusal at 3.0 feet on basalt.

Bottom of test pit at 3.0 feet.

#### **TEST PIT NUMBER TP-03** Wallace Group Inc. 62915 NE 18th Street, Suite 1 Bend, OR 97701 PAGE 1 OF 1 GROUP — HORTHWEST GEOSYSTEM EXPERTS PROJECT NAME Crossing Trails Resort CLIENT ATWELL, LLC. PROJECT LOCATION Crook County, OR PROJECT NUMBER 21132-2 DATE STARTED 8/17/21 COMPLETED 8/17/21 GROUND ELEVATION \_\_\_ EXCAVATION CONTRACTOR Terry Shine Excavating **GROUND WATER LEVELS:** EXCAVATION METHOD CAT Backhoe AT TIME OF EXCAVATION \_---LOGGED BY KAK CHECKED BY AML 24HRS AFTER EXCAVATION \_---NOTES SAMPLE TYPE NUMBER GRAPHIC LOG USCS DEPTH (ft) MATERIAL DESCRIPTION 0.0 SILTY SAND, cobbles, slightly moist, tannish brown, fine to coarse grained, subangular to subrounded, weak cementation SM Refusal at 2.0 feet on basalt. Bottom of test pit at 2.0 feet.

#### **TEST PIT NUMBER TP-04** Wallace Group Inc. 62915 NE 18th Street, Suite 1 Bend, OR 97701 PAGE 1 OF 1 GROUP — HORTHWEST GEOSYSTEM EXPERTS PROJECT NAME Crossing Trails Resort CLIENT ATWELL, LLC. PROJECT LOCATION Crook County, OR PROJECT NUMBER 21132-2 DATE STARTED 8/17/21 COMPLETED 8/17/21 GROUND ELEVATION \_\_\_ EXCAVATION CONTRACTOR Terry Shine Excavating **GROUND WATER LEVELS:** EXCAVATION METHOD CAT Backhoe AT TIME OF EXCAVATION \_---LOGGED BY KAK CHECKED BY AML 24HRS AFTER EXCAVATION \_---NOTES SAMPLE TYPE NUMBER GRAPHIC LOG USCS DEPTH (ft) MATERIAL DESCRIPTION 0.0 SILTY SAND, cobbles, slightly moist, brown, fine to coarse grained, subangular to subrounded, pumiceous, weak cementation SM Refusal at 2.0 feet on calcite cemented soil.

Refusal at 2.0 feet on calcite cemented soil Bottom of test pit at 2.0 feet.

WALL GROUND GROUND GROU	ACE	Wallace Group Inc. 52915 NE 18th Street, Suite 1 Bend, OR 97701	TEST PIT NUMBER TP-05 PAGE 1 OF 1
CLIENT ATWELL	_, LLC.		PROJECT NAME Crossing Trails Resort
PROJECT NUMBE	<b>ER</b> 21132-2		PROJECT LOCATION Crook County, OR
DATE STARTED _	8/17/21	<b>COMPLETED</b> 8/17/21	GROUND ELEVATION
EXCAVATION CONTRACTOR Terry Shine Excavating		Terry Shine Excavating	GROUND WATER LEVELS:
EXCAVATION METHOD CAT Backhoe		Backhoe	AT TIME OF EXCAVATION
LOGGED BY KAI	K	CHECKED BY AML	24HRS AFTER EXCAVATION
NOTES			<u> </u>
SAMPLE TYPE NUMBER	GRAPHIC LOG		MATERIAL DESCRIPTION
SI	M 1.5	SILTY SAND, slightly moist, brow	nish tan, fine to coarse grained, subangular to subrounded, pumiceous

Refusal at 1.5 feet on basalt. Bottom of test pit at 1.5 feet.

Wallace Group Inc. 62915 NE 18th Street, Suite 1 Bend, OR 97701	TEST PIT NUMBER TP-06 PAGE 1 OF
CLIENT ATWELL, LLC.	PROJECT NAME Crossing Trails Resort
PROJECT NUMBER 21132-2	PROJECT LOCATION Crook County, OR
DATE STARTED         8/17/21         COMPLETED         8/17/21	GROUND ELEVATION
EXCAVATION CONTRACTOR Terry Shine Excavating	GROUND WATER LEVELS:
EXCAVATION METHOD CAT Backhoe	AT TIME OF EXCAVATION
LOGGED BY KAK CHECKED BY AML	24HRS AFTER EXCAVATION
NOTES	_
SAMPLE TYPE NUMBER U.S.C.S. GRAPHIC LOG	MATERIAL DESCRIPTION

SILTY SAND, cobbles, slightly moist, brown, fine to coarse grained, subangular to subrounded Refusal at 0.3 feet on basalt.

Bottom of test pit at 0.3 feet.

0.0

SM 0.3

#### **TEST PIT NUMBER TP-07** Wallace Group Inc. 62915 NE 18th Street, Suite 1 Bend, OR 97701 GROUP — HORTHWEST GEOSYSTEM EXPERTS CLIENT ATWELL, LLC. PROJECT NAME Crossing Trails Resort PROJECT NUMBER 21132-2 PROJECT LOCATION Crook County, OR DATE STARTED 8/17/21 COMPLETED 8/17/21 GROUND ELEVATION EXCAVATION CONTRACTOR Terry Shine Excavating **GROUND WATER LEVELS:** EXCAVATION METHOD CAT Backhoe AT TIME OF EXCAVATION \_---LOGGED BY KAK CHECKED BY AML 24HRS AFTER EXCAVATION \_---NOTES SAMPLE TYPE NUMBER GRAPHIC LOG USCS DEPTH (ft) MATERIAL DESCRIPTION 0.0 SILTY SAND, cobbles, wet, brown, fine to coarse grained, subangular to subrounded, moderate cementation SM 2.5 Refusal at 2.5 feet on calcite cemented soil. Bottom of test pit at 2.5 feet.

## WALLACE GROUP Inc. 62915 NE 18th Street, Suite 1 Bend, OR 97701 TEST PIT NUMBER TP-08 PAGE 1 OF 1

	NORTHWEST G	EOSYSTE	M EXPERT	s ´						
CLIEN	IT ATW	ELL, l	LC.		PROJECT NAME Crossing Trails Resort					
PROJ	ECT NUM	/IBER	2113	2-2	PROJECT LOCATION Crook County, OR					
DATE	STARTE	<b>D</b> <u>8/</u>	17/21	<b>COMPLETED</b> <u>8/17/21</u>	GROUND ELEVATION					
EXCA	VATION (	CONT	RACTO	OR Terry Shine Excavating	GROUND WATER LEVELS:					
EXCA	VATION I	METH	<b>OD</b> _C	AT Backhoe	AT TIME OF EXCAVATION					
LOGG	ED BY	KAK		CHECKED BY AML	24HRS AFTER EXCAVATION					
NOTE	s									
O DEPTH O (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG		MATERIAL DESCRIPTION					
 		SM		SILTY SAND, dry to slightly moist, tar	n, fine to coarse grained, subangular to subrounded, pumiceous					
2.5		SP			noist, tannish brown, fine to coarse grained, subangular to subrounded					

Refusal at 4.5 feet on basalt. Bottom of test pit at 4.5 feet.



### **APPENDIX B**



#### ASCE 7 Hazards Report

Standard: ASCE/SEI 7-16 Elevation: 3135.81 ft (NAVD 88)

Risk Category: II Latitude: 44.26503
Soil Class: B - Estimated (see Longitude: -120.9613

Section 11.4.3)



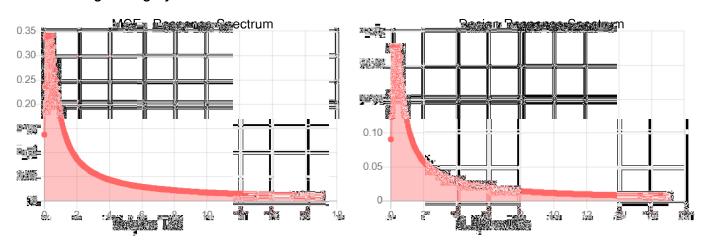


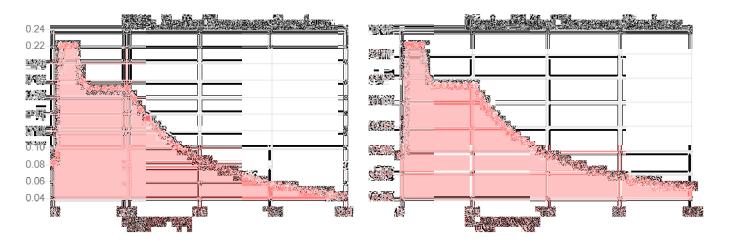


#### B - Estimated (see Section 11.4.3)

S <sub>s</sub> :	0.341	$S_{D1}$ :	0.117
$S_1$ :	0.175	$T_L$ :	16
F <sub>a</sub> :	1	PGA:	0.155
F <sub>v</sub> :	1	PGA <sub>M</sub> :	0.155
S <sub>MS</sub> :	0.341	F <sub>PGA</sub> :	1
S <sub>M1</sub> :	0.175	l <sub>e</sub> :	1
S <sub>DS</sub> :	0.228	$C_v$ :	0.814

#### Seismic Design Category B





Data Accessed: Wed Sep 01 2021

Date Source: USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in

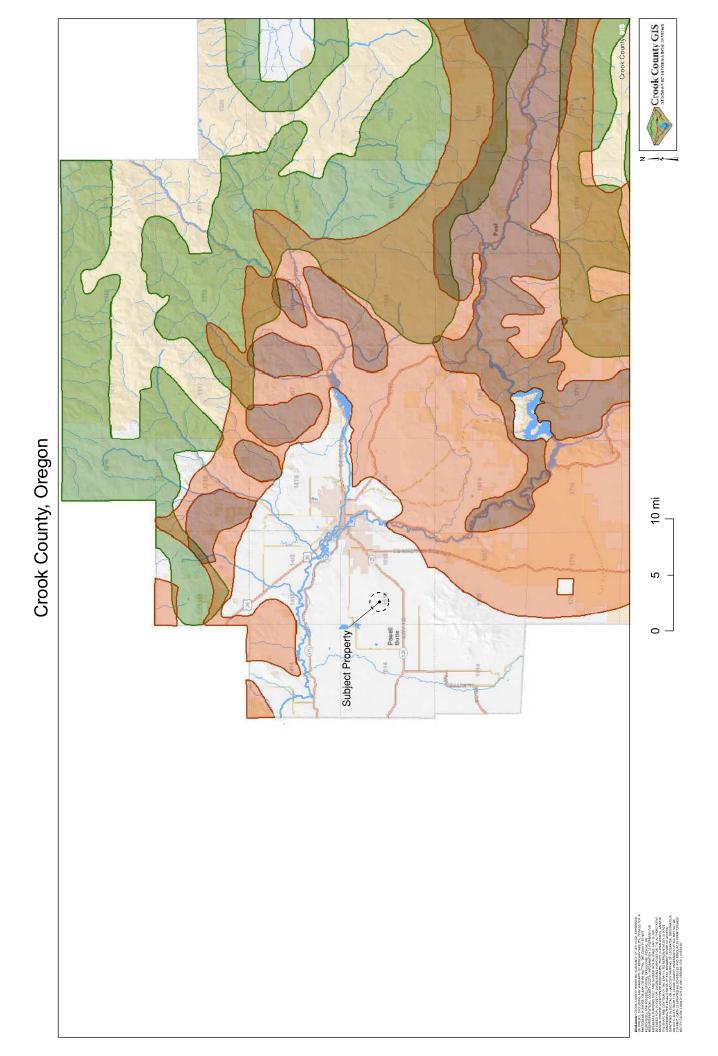
accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.



The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

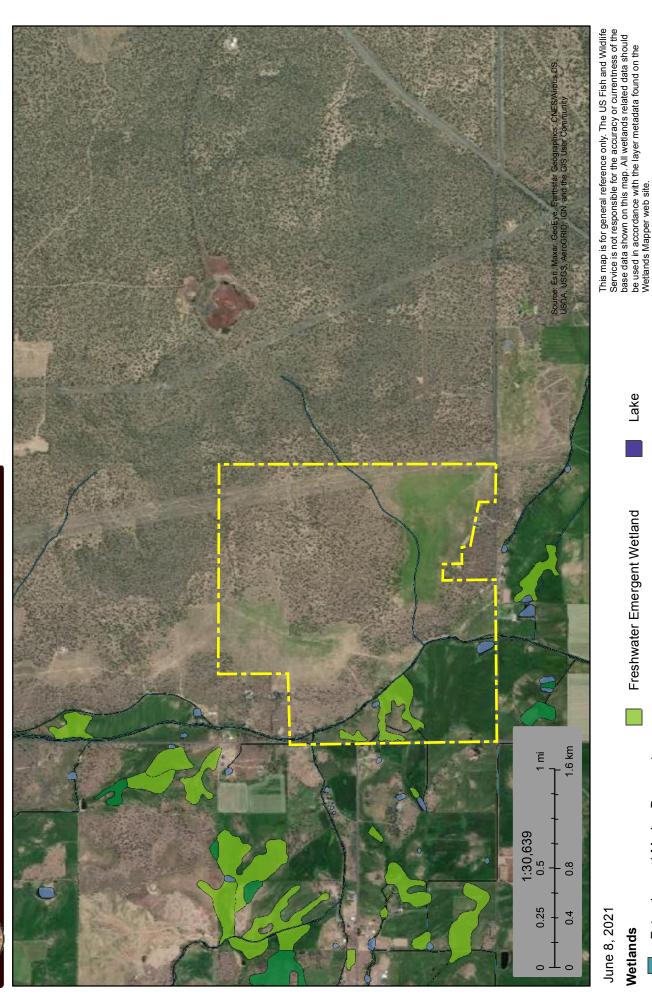
In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.





# National Wetlands Inventory U.S. Fish and Wildlife Service

# **Crossing Trails**



National Wetlands Inventory (NWI) This page was produced by the NWI mapper

Riverine

Other Lake

Freshwater Forested/Shrub Wetland

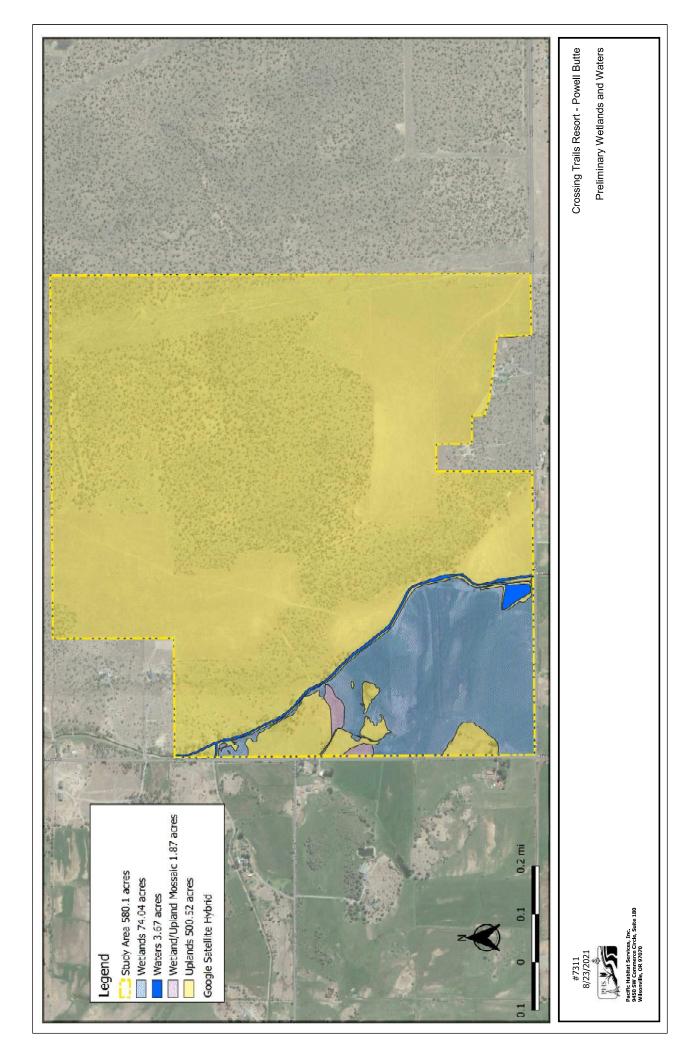
Estuarine and Marine Deepwater

Wetlands

Estuarine and Marine Wetland

Freshwater Pond

Freshwater Emergent Wetland



# NOTES TO USERS

name dealber immunitation was when the Barbor of Bendinon (BEE) designable has been elemented users an emprangent to creat. The it is not all relative to be sensity. Seminary of Seleces (Bendinon Heles to estimate of Heles and Seminary of Seleces (Bendinon Heles to estimate Activation Heles and Seleces a

the findedways were computed at most sections and integrated as of the findedways were computed as design in finded as design in finded as design in finded as design in finded with the finded and the finded as design in finded

ses not in Special Flood Hazard Asses may be protected by flood on a. Refer to Section 2.4 Flood Protection Measures" of the Flood Insur-cet for information on flood control structures for this jurisdiction.

estimated in the propertion of the range was Cropes Steep Prese-tor (PPS one 350). The Institute of the range was NAD St. CRS 1650 Differences in cellular patients, produced to THM zones used in 15 on FRMs for adjacent, jurisdiscent any result in TRI patients and in 15 in major was the production of the production o

current alexation, description, and/or hostion information for benefit marks. This map, please contact the information Services Branch of the National Services of (301) 713-3242, or viet its wearing at (301) 713-3242, or viet its wearing at (301) 713-3242.

o information shown on this FIRM was derived from multiple sources. Base are a pooked in dight format by Choat Chartry CHS Department. This was procedured to the serial chartry date 2000 and 2000.

baselines decided on this map represent the hydraute modeling has the footbodies in September 18 report, As a result of introvest bloographic to baselone, in some sazes, may deviate significantly from the or crapper outside the SEHA.

refers more besided settle systems channel configuration on the processing and profession in the chalging in the chalging was not marked from the processing from the channel of the chalging the processing from the channel of the ch

for to the expandially printed Map Index for an everylew map of the cowing the systeal of map parties community may requestive addresses, ting of Communities ledde contenting Newtonia Food Inseriors Propries and community is well as a lating of the peines or which section ormunity as well as a lating of the peines or which section community.

return on available products associative with the FIRM visit to May Service In Infilmion Service Application of Service and Service Service of May Change, F Poor Insurance Study Report, and/or service of the May of these products can be ordered or obtains min the MSC wheeler.

we questions about this map, how to order products or the National Flood Program Flood and the FEWA Map Information eXchange 1.457 FEWA MAP (1477-336-2627) or visit the FEMA website at schema-gov/someostrip.

CROOK COUNTY UNICORPORATED AREAS 410050 N 21 21 Now Cl N. St. W. N. 28. THIS AREA SHOWN AT A CALL FOR SCALE OF 1" = 500' SCALE OF 1" = 500' ON MAP NUMBER 12 13 41013C0384 CITY OF PRINEVILL

410051 35 THIS AREA SHOWN AT A SCALE OF 1" = 1000' ON MAP NUMBER 41013C0385 B\_0025 THE SHALL 34 10 22 Lage. 4810000 FT UNINCORPORATED AREAS 410050 6 21 33 ZONEA + Lythe Creak +2816 + 29 20 Ongon + UNINCORPORATED AREAS 410050 30 4795000 FT + RIGE 12 13 25 24 TH 0000099 950000 FT 245000 FT







PANEL 400 OF 1825 (SEE MAP INDEX FOR FIL

PANEL NO.

a to User. The Map Number show of be used when placing map on munity Number shown above st on insurance applications for the

MAP NUN 41013CO MAP REV FEBRUARY 2,

#### Crossing Trails Resort - 21002079 1/25/2022

Crossing Trails Sewer Demand Calculations-Total	Total	Sq Ft(Unit)	ADF/unit	ADF	ADF	Comments
			gpd/unit*	gpd	MGD	
Vacation Villas	400	Each	250	100,000	0.1000	
Overnight Rentals/Cabins	200	Each	200	40,000	0.0400	Two persons
Overnight Seasonal Rentals	50	Each	200	10,000	0.0100	Luxury Camps with two persons
Workforce Housing	100	Each	250	25,000	0.0250	Mobile Home Parks
Starwood Amenity Space - 1.8 acres						
Clubhouse/Pool	2	Ac	500	1,000		Not sure what is proposed
Shared Amenity Space - 11.2 acres plus 2 ac						
	13	Ac	500	6,500		Not sure what is proposed
Other						
Maintenance Center	1	Each	300	300	0.0003	
Welcome Center	1	Each	300	300	0.0003	
				183,100	0.1756	

<sup>\*</sup>OAR 340-071-0220 Table 2

3 ac-ft per irrigated acr	e or 1.5 inches	per weel	
Acres Irrigated 28.5	ac	gal/ac 40,729	1,160,765 gallons/week
			165,824 Gal/Day
			173 gpm Irrigation only (Indicated from well, but may use COID rights)
			290 gpm total well capacity
			348,000 gpd
			348,924 gpd
2	1500	GPM	180,000 Gallons
			877,847 Gallons
			298 Acre Feet
	Acres Irrigated 28.5	Acres Irrigated 28.5 ac	28.5 ac 40,729

OARD Chapter 340 Division 71 - Onsite Wastewater Treatment Sys	stems A					Minimum length of absorption to projected daily sowage flow alco- soil depth			
Effective Soil Depth:	>48"	36"-48"	24"-36"	18"-24"				Soil Group	
Length of trench per 150 gpd:	50	75	100	125		Emoctive Soil Depth			e
						18" to Less than 27"	1/2	199	105
Trench Lenth Required: (Assume 15% disposal by absorption)	9155	13732.5	18310	22887.5	LF	24° to Loss than 36°	100	125	190
						36° to Lose than 40	25	100	125
Area Required:1	91550	137325	183100	228875	SF	45 or max	30	73	123
	2.10	3.15	4.20	5.25	AC	Soll Group A.— Sand, Loury Stank, Stank Loury had Group R.— Sandy Clay Laman, Louis, Sall La had Group C.— Silly Clay, Louis, Stank Clay, R El mand grant care from a very fam, at a consider	to Chy. Chy.		

<sup>&</sup>lt;sup>1</sup> Assumes 150' rows with 10 o.c. row spacing

Pond Area for non-irrigation Months (Nov. 1 to April	1)			
ADF Sewer Demand	183,100	gpd		
Non-Irrigation Days (5 Months)	27,648,100	gal		
	3,695,776	CF		
	84.8	Acer-Ft		
Pond Depth	4.0	Feet		
Pond Area	21.2	Acre	923,944 SF	
Assume 60% Occupancy in Winter	12.7	Acre	554,366 SF	

```
L-393 L-395 L-397
                                                                     L-399
                                                                               L-401
                               L-392 L-394 L-396 L-398
                                                                     1-400
                                                                              L-402
                                                                    T-9299AUSE/POU Instream Lease #'s
 T-8692 Spo. USSP 941 V.56p.2014
  1-8672 Spo. USSP 941 NS6p.2019
T-8693 Spo USSP617 NS6p.999 457 STATE OF OREGON
                                                                    T-9313APON 16, 260, 261, 257, 259,
                                                                                     258, 256, 266, 263,
 T-8982 V.56 p. 124
                                      COUNTY OF DESCHUTES
                                                                                     262, 264, 265,279
 T-8983 U.SG P. 127
 T. 8984 V.56 p. 130
                                                                                T-9017, 9018, 9020, 9021,
                                   CERTIFICATE OF WATER RIGHT -9500
                                                                  T-9423 WHHDRAWN 157 P.1195 55 RIOZZ
                                                T-9555 WITHDRAWN - 9499 - 9423N
 T-8985 V.56 p.133
   -9214 A POU/PODVS7 DUGO (Withdrawn)
                                                                  1-9424WMHDRAWN-9283
THIS CERTIFICATE ISSUED TO
    10 v. 13 p. 5210

CENTRAL OREGON IRRIGATION DISTRICT 7.9597

2598 N HIGHWAY 97

REDMOND, OREGON 97756

7-9168

7-9604
                                                                                  T-9150
                                                                                  T-9156 N.56A 1033
                                                                                  T-9195 V5682051
                                                                                   T-9276
    confirms the right to use the waters of THE DESCHUTES RIVER, a tributary of THE COLUMBIA
                                                                                                 T-9784
    RIVER, for IRRIGATION OF ACRES 43,746.93 ACRES, 781.957 ACRES/EQUIVALENT FOR
                                                                                                T-9785
    MUNICIPAL USE, 158.01 ACRES/EQUIVALENT FOR POND MAINTENANCE, 87.10
                                                                                               T-9816
    ACRES/EQUIVALENT FOR INDUSTRIAL USE, 7.0 ACRES/EQUIVALENT FOR QUASI-
    MUNICIPAL USE, 2.80 ACRES/EQUIVALENT FOR DUST ABATEMENT, STOCK WATER, AND
    DOMESTIC USE.
    This right was confirmed by decree of the Circuit Court of the State of Oregon for DESCHUTES
    County. The decree is of record at Salem, in the Order Record of the WATER RESOURCES
    DIRECTOR, in Volume 12, at Page 282 and in Volume 16, at pages 1 and 390. The dates of priority are
    OCTOBER 31, 1900 FOR 985.0 CUBIC FEET PER SECOND, AND DECEMBER 2, 1907 FOR THE
    BALANCE ALLOWED BY DECREE.
    The amount of water used for irrigation, together with the amount secured under any other right existing
    for the same lands, is limited to a diversion of not to exceed the quantity determined by decree of the
                                                                                  L-498 T-9524 700
    Circuit Court for Deschutes County, dated March 24, 1933, being:
    April 1 to May 1 and Oct. 1 to Nov. 1
                                                    1 cfs to 80.0 acres
                                                    1 cfs to 60.0 acres
    May 1 to May 15 and Sept. 15 to Oct. 1
    May 15 to Sept. 15
                                                    1 cfs to 32.4 acres
                                                                                       L-497 L-496
    for each acre irrigated by the Central Oregon Irrigation District main canal systems during the irrigation
    season of each year, not to exceed 9.91 acre-feet for each acre irrigated during the irrigation season as
    measured at the diversion from the source. The quantities reflect a 45% transmission loss as determined
    by decree of the Circuit Court for Deschutes County, dated March 24, 1933. Those lands not served from
    the district main canal systems but by direct pumping from the Deschutes River will not be allowed the
                                                                      L-525
L-526
                                                             L-529
    45% transmission loss.
    The points of diversion are located as follows:
                                                    1-528
    370 1.
             Central Oregon Canal: SW1/4 NE1/4, Section 13, T. 18 S., R. 11 E., W.M.; 1520 feet south
                                                                                           and 1535 feet west from the NE Corner of Section 13.
             Smith Properties, Inc.: Lot 4 (NW1/4 NW1/4), Section 5, T. 18 S., R. 12 E., W.M.; 440 feet
             south and 970 feet east from the NW Corner of Section 5.
             Columbia Park: SE¼ SE¼, Section 31, T. 17 S., R. 12 E., W.M.; 740 feet north and 490 feet
              west from the SE Corner of Section 31.
             Drake Park South: NE¼ SE¼, Section 31, T. 17 S., R. 12 E., W.M.; 700 feet north and 120
             feet west from the SE Corner of NE¼ SE¼, Section 31.
                                                                                                4631
                                                                                               4-651
             Drake Park North: SW1/4 NW1/4, Section 32, T. 17 S., R. 12 E., W.M.; 2150 feet south
             and 750 feet east from the NW Corner of Section 32.
     38 (
    -382
 1-3826. Harmon Park: SW¼ NW¼, Section 32, T. 17 S., R. 12 E., W.M.; 700 feet south and 680 feet west from the NE Corner of SW¼ NW¼, Section 32.

7-9534 v. 550./365 ext. of line V.61 p.525

HB3111.bwb , V54 p 566 v 54 p 560

Page 1 of 105

Page 1 of 105

Page 2 of 105
                                                              T-8486 T-8485
           Instream Lease #187 5/2/2001-10/31/2002 AMENDED by special order
L-368 Instream lease # 234 9-19-01/9-30-01 V. 55 pg.
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- 7. Pioneer Park (South): NW¼ NE¼, Section 32, T. 17 S., R. 12 E., W.M.; 600 feet south and 450 feet west from the NE Corner of the NW¼ NE¼ of Section 32.
- 8. Pioneer Park (North): NW¼ NE¼, Section 32, T. 17 S., R. 12 E., W.M.; 560 feet west from the NE Corner of the NW¼ NE¼ of Section 32.
- 9. T.I.D. Bend Feed Canal: NW¼ NE¼, Section 32, T.17S., R. 12 E., W.M.; 2050 feet west from the NE Corner of Section 32.
- 10. Rivers Edge Golf Club: SW¼ NE¼, Section 29, T. 17 S., R. 12 E., W.M.; 1980 feet south and 1160 feet east from the N¼ Corner of Section 29.
- 11. C.O.I.D. North Canal: SE¼ NE¼, Section 29, T. 17 S., R. 12 E., W.M.; 850 feet north and 630 feet west from the E¼ Corner of Section 29.
- 12. Cline Falls State Park: NW¼ SE¼, Section 14, T. 15 S., R. 12 E., W.M.; 425 feet south and 1475 feet west from the E¼ Corner of Section 14.

A description of the place of use to which this right is appurtenant is as follows:

QTR/QTR	TL	USE	ACRES	DIV. PT.	OWNER
SW1/4 SE1/4	401	IR	1.820	12	OREGON STATE PARKS
SE1/4 SE1/4	600	IR	1.660	12	OREGON STATE PARKS
22/4 02/4			2,000	Section 32	
SW¼ NE¼	200	IR	6.600	11	THORNBURGH, EVERETT
SE¼ NE¼	200	IR	8.900	11	THORNBURGH, EVERETT
NE¼ SW¼	500	IR	13.250	11	BRADEN, SONDRA D
NW¼ SW¼	500	IR	1.000	11	BRADEN, SONDRA D
SW¼ SW¼	500	IR	19.200	11	BRADEN, SONDRA D
SE¼ SW¼	600	IR	26.000	11	PRATT, DOROTHY LOU
NE¼ SE¼	300	IR	36.650	11	THORNBURGH, EVERETT
SW¼ SE¼	400	IR	0.100	11	THORNBURGH, EVERETT
SE1/4 SE1/4	400	IR	32.350	11	THORNBURGH, EVERETT
				Section 33	
SW1/4 NW1/4	400	IR	7.700	11	THORNBURGH, EVERETT
NE¼ SW¼	100	IR	4.000	11	HARPER, VIRGIL
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	400	IR	36.300	11	THORNBURGH, EVERETT
SW1/4 SW1/4	400	IR	37.400	11	THORNBURGH, EVERETT
SE¼ SW¼	100	IR	2.000	11	HARPER, VIRGIL
SE¼ SW¼	103	IR	14.000	11	GREGERSON, GARY E
				Section 34	
			Township 1	13 South, Range	13 East, W.M.
NE¼ NE¼	300	IR	12.000	11	CLARK, DAVID L
SE¼ NE¼	300	IR	6.200	11	CLARK, DAVID L
				Section 12	
SE¼ NE¼	4300	IR	14.000	11	BETTESWORTH, JAY
SE¼ NE¼	4400	IR	5.000	11	GREGG, MARGARET
NE¼ SE¼	300	IR	1.000	11	BITTLER, SCOTT
NE¼ SE¼	400	IR	1.400	11	SCHULTZ, RUTH A
				Section 36	
			Township	14 South, Range	12 East, W.M.
SW¼ NE¼	600	IR	3.200	11	HUMPHREYS FAMILY TRUST
SE¼ NE¼	600	IR	4.000	11	HUMPHREYS FAMILY TRUST
NE¼ NW¼	700	IR	8.100	11	GARDNER, JAMES

SE1/4 NW1/4	700	IR	12.400	11	GARDNER, JAMES
SE1/4 NW1/4	700	PND	0.400	11	GARDNER, JAMES
NE1/4 SW1/4	700	IR	15.700	11	GARDNER, JAMES
SW1/4 SW1/4	700	IR	18.400	11	GARDNER, JAMES
SE1/4 SW1/4	700	IR	21.000	11	GARDNER, JAMES
NE1/4 SE1/4	600	IR	12.700	11	HUMPHREYS FAMILY TRUST
NW1/4 SE1/4	600	IR	19.800	11	HUMPHREYS FAMILY TRUST
NW1/4 SE1/4	600	PND	0.600	11	HUMPHREYS FAMILY TRUST
SW1/4 SE1/4	600	IR	25.400	11	HUMPHREYS FAMILY TRUST
SW1/4 SE1/4	600	PND	0.300	11	HUMPHREYS FAMILY TRUST
SE1/4 SE1/4	600	IR	2.300	11	HUMPHREYS FAMILY TRUST
SE/4 SE/4	000	IK	2.500	Section 3	HUMPHREIS FAMILI IRUSI
				Section 3	
NE¼ NE¼	100	IR	5.000	11	THORNBURGH, EVERETT
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	100	PND	1.500	11	
					CENTRAL OREGON IRRIGATION
SW¼ NE¼	200	IR ID	7.400	11	RIVERA, KEITH A
SW¼ NE¼	300	IR	10.700	11	BOYDSTON, KYLE S
SW¼ NE¼	300	PND	0.300	11	BOYDSTON, KYLE S
SW1/4 NE1/4	400	IR	4.000	11	BURTON, KYLE E
SE¼ NE¼	200	IR	24.600	11	RIVERA, KEITH A
NE¼ NW¼	100	IR	17.470	11	PATRICK, RANDALL E
NE¼ NW¼	101	IR	1.600	11	TERRY, TOM
NW¼ NW¼	200	IR	14.800	11	BRADEN, SONDRA D
SW1/4 NW1/4	500	IR	9.000	11	BRADEN, SONDRA D
SE1/4 NW1/4	300	IR	1.000	11	KOSKI, CLIFTON
SE1/4 NW1/4	400	IR	27.000	11	STANFILL, DOYLE S
NE1/4 SW1/4	900	IR	19.000	11	HOVEY, RONALD
NW1/4 SW1/4	700	IR	22.700	11	SCHWERBEL, RICHARD
SW1/4 SW1/4	700	IR	24.300	11	SCHWERBEL, RICHARD
SE1/4 SW1/4	800	IR	22.000	11	STEINKE, JAMES O
NE¼ SE¼	1100	IR	6.000	11	HUBBARD, HARRY
NE¼ SE¼	1200	IR	3.700	11	HUBBARD, HARRY
NE¼ SE¼	1300	IR	3.700	11	MESSNER, TIMOTHY
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1000	IR	14.000	11	HOVEY, RONALD
NW1/4 SE1/4	1300	IR	5.300	11	MESSNER, TIMOTHY
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1400	IR	11.900	11	HUMPHREYS FAMILY TRUST
SE1/4 SE1/4	1400	IR	24.800	11	HUMPHREYS FAMILY TRUST
3E/4 3E/4	1400	IIX	24.000	Section 4	HOMPHREIS FAMILI IKUSI
				Section 4	
NW¼ NE¼	100	IR	0.280	11	OREGON STATE PARKS
SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	200	IR	28.700	11	MEIER, MARTIN
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	200	IR	1.800	11	
					MEIER, MARTIN
SE¼ NE¼	300	IR	20.200	11	HOLM, DALE M
SW1/4 NW1/4		PND	1.200	11	CENTRAL OREGON IRRIGATION
SW1/4 NW1/4		PND	2.400	11	CENTRAL OREGON IRRIGATION
SW1/4 NW1/4		PND	0.600	11	CENTRAL OREGON IRRIGATION
SW1/4 NW1/4		PND	6.000	11	CENTRAL OREGON IRRIGATION
SW1/4 NW1/4		PND	1.200	11	CENTRAL OREGON IRRIGATION
SW1/4 NW1/4		IR	0.800	11	MYRIN, STEVE
SW1/4 NW1/4		PND	0.160	11	MYRIN, STEVE
SW1/4 NW1/4		IR	5.500	11	HERLOCKER, JOHN R.
SW1/4 NW1/4	2000	PND	5.700	11	CENTRAL OREGON IRRIGATION
SW1/4 NW1/4	2100	PND	6.900	11	CENTRAL OREGON IRRIGATION
NE1/4 SW1/4	500	IR	21.300	11	PINZ STOCK RANCH, INC
NE1/4 SW1/4	600	IR	0.700	11	PINZ STOCK RANCH, INC
NW1/4 SW1/4	400	IR	38.500	11	RIEDWEG, DAVID A &
SW1/4 SW1/4	400	IR	36.000	11	RIEDWEG, DAVID A &
SE1/4 SW1/4	500	IR	28.200	11	PINZ STOCK RANCH, INC
SE1/4 SW1/4	600	IR	2.300	11	PINZ STOCK RANCH, INC
NE1/4 SE1/4	300	IR	7.300	11	HOLM, DALE M
		-			, ==
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NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 600	IR 4	4.000	11	PINZ STOCK RANCH, INC
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 700		2.700		FOX, STEPHEN A
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 600		1.700		PINZ STOCK RANCH, INC
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 700		5.500		FOX, STEPHEN A
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 800		3.000		FOX, STEPHEN A
				•
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1000	IR 10	0.620		FOX, STEPHEN A
		ì	Section 5	
CEL/ NEL/ 1600	ID (			HERI COVER TOTAL
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 1500		2.000		HERLOCKER, JOHN R.
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 2000		5.000		HERLOCKER, JOHN R.
NE¼ NW¼ 2102		8.800	11	JOHNSTON, TERRY L
NW¼ NW¼ 2102	IR 4	4.300	11	JOHNSTON, TERRY L
SW¼ NW¼ 2102	IR (	0.300	11	JOHNSTON, TERRY L
SW¼ NW¼ 2104	IR 25	5.700	11	CLARK, DAVID L
SE¼ NW¼ 2102	IR 2	2.200	11	JOHNSTON, TERRY L
SE¼ NW¼ 2105	IR 24	4.800	11	CLARK, DAVID L
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2101	IR 12	2.900	11	CLARK, DAVID L
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2105	IR (	5.100	11	CLARK, DAVID L
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2300		1.800	11	FREEMAN, W E
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2103		6.800	11	CLARK, DAVID L
NW¼ SW¼ 2104		7.600	11	CLARK, DAVID L
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2103		5.200	11	CLARK, DAVID L
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2103		3.100	11	CLARK, DAVID L
NE¼ SE¼ 2200		1.100	11	ABBEY, STEPHEN P
			11	
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 2200		7.000		ABBEY, STEPHEN P
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 2200		4.700	11	ABBEY, STEPHEN P
SE¼ SE¼ 2200	IR 20	6.200	11	ABBEY, STEPHEN P
		·	Section 6	
NIEL/NIEL/ 0700	ID 2	c 000	11	LEIL LEDWIN
NE¼ NE¼ 2700		6.000		LEU, J ERWIN
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 2701		3.000	11	MCWILLIAMS, JUDY
SW¼ NE¼ 2702		4.500	11	COLVIN, DALE F
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 2702		9.500	11	COLVIN, DALE F
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 2400		9.400	11	CLARK, DAVID L
NW¼ NW¼ 2103		7.400	11	CLARK, DAVID L
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 2800		9.300	11	SCHUDEL, HAROLD L
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 2800		6.900	11	SCHUDEL, HAROLD L
$SE^{1/4}SE^{1/4}$ 2800	IR 3	6.800	11	SCHUDEL, HAROLD L
			Section 7	
2771/2771/ 400			4.4	DIGUIGON DWA DID
NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 100		4.800	11	DICKSON, DWAINE
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 100		6.100	11	DICKSON, DWAINE
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 100		0.100	11	DICKSON, DWAINE
SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200		4.500	11	WHITE, KENNETH
SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 201		7.700	11	ZINIKER, ROBIN L
SW¼ NE¼ 202		2.000	11	CAREY, WILSON B
SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 204		2.500	11	STARNES, RONALD
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 201		2.300	11	ZINIKER, ROBIN L
NE¼ NW¼ 300		4.000	11	WANZO, CHARLES M
NW¼ NW¼ 301	IR 1:	5.000	11	RIDENOUR, VIRGIL M
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 403	IR 2	7.000	11	BUTTERFIELD, PATRICK
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 500	IR 2	0.000	11	AHRENS, H JOHN
SE¼ NW¼ 501	IR	3.000	11	HOLLANDER, LEWIS E JR
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 502	IR ·	4.600	11	ALLEN, CHALLIS
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 400	IR 1	0.000	11	RODRIGUES, EDMUND P
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 405		6.000	11	MAY, KEIPPIE L
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 406		8.000	11	PRODZINSKI, MARK D ET AL
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 600		4.200	11	RIEMENSCHNEIDER, D C
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 600		0.200	11	RIEMENSCHNEIDER, D C
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1300		0.000	11	SCHUDEL, HAROLD L
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SW1/4 SW1/4	1300	IR	36.500	11	SCHIDEL HABOLD I
SE¼ SW¼	401	IR	4.500	11	SCHUDEL, HAROLD L
SE1/4 SW1/4	402	IR IR	0.500	11	BERGER, CHARLES D
SE14 SW14	404	IR IR	21.100	11	HENDERSON, WILLIAM
SE1/4 SW1/4	700	IR	4.000		BERGER, CHARLES D
SE1/4 SW1/4	800	IR		11	JAHN, M SCOTT
			2.000	11	PETERSON, TURE E
SE¼ SW¼	900	IR ID	0.500	11	BERGSTROM, DAVID L
NE¼ SE¼	1100	IR IR	36.100	11	ZINIKER, ROBIN L
NW¼ SE¼	1002	IR	7.000	11	BROWNING, SID
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1100	IR	19.850	11	ZINIKER, ROBIN L
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1101	IR	4.900	11	KILGORE, DAN
SW1/4 SE1/4	1000	IR	9.800	11	BROWNING, SID
SW1/4 SE1/4	1001	IR	6.000	11	GREGAN, DOUGLAS R
SW1/4 SE1/4	1002	IR	19.100	11	BROWNING, SID
SE1/4 SE1/4	1400	IR	28.600	11	ALDOUS, ELIZABETH A
				Section 8	
NE¼ NE¼	100	IR	18.000	11	GARDNER, JAMES & CAROL
NE¼ NE¼	100	PND	0.200	11	GARDNER, JAMES & CAROL
NW¼ NE¼	100	IR	11.500	11	GARDNER, JAMES & CAROL
NW¼ NE¼	200	IR	7.600	11	MANN, WILLIAM D
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	300	IR	2.200	11	DEATON, KATHLEEN ROSE
SW¼ NE¼	200	IR	15.150	11	MANN, WILLIAM D
SW¼ NE¼	300	IR	5.800	11	DEATON, KATHLEEN ROSE
SE¼ NE¼	100	IR	5.400	11	GARDNER, JAMES & CAROL
SE¼ NE¼	100	PND	3.800	11	GARDNER, JAMES & CAROL
NE1/4 NW1/4	400	IR	20.000	11	PERRY, JACK L
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	4.810	11	ROGERS, CHARLES E JR
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	6.000	11	MITCHELL, CHESTER
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	10.400	11	KELLER, WALLACE L
SW1/4 NW1/4	701	IR	24.600	11	KELLER, WALLACE L
SW¼ NW¼	702	IR	1.440	11	KELLER, WALLACE L
SW'/4 NW'/4	801	IR	5.400	11	LORANGER, JON S
SE'4 NW'4	800	IR	3.500	11	HAGA, RICK A
SE'4 NW'4	801	IR	13.600	11	LORANGER, JON S
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	900	IR	2.800	11	DRUM, MICHAEL
SE¼ NW¼	900	IR	1.000	11	MURPHY, RICHARD A
					•
NE¼ SW¼	1500	IR ID	28.000	11	BAIN, NORMAN C JR
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR ID	26.800	11	KELLER, WALLACE L
SW1/4 SW1/4	1100	IR ID	24.400	11	ALDOUS, ELIZABETH A
SW1/4 SW1/4	701	IR	5.000	11	KELLER, WALLACE L
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1300	IR	5.480	11	JAGER, GERRIT A
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1400	IR	27.000	11	BOLKEN, OLAF
NE¼ SE¼	1700	IR	10.000	11	KIMBALL, GEORGE H
NE¼ SE¼	1800	IR	0.500	11	FOSS, ART
NE¼ SE¼	1800	IR	2.700	11	RADANT, GERALD DANA
NE¼ SE¼	2000	IR	2.000	11	GROESZ, JOHN W
NE¼ SE¼	2100	IR	2.000	11	LONG, KEITH E
NE¼ SE¼	2200	IR	3.600	11	BOZARTH, JAMES F
NW¼ SE¼	1600	IR	8.000	11	FOSS, C B
SW1/4 SE1/4	1900	IR	14.300	11	FOSS, C B
SE¼ SE¼	1900	IR	22.900	11	FOSS, C B
SE1/4 SE1/4	2200	IR	0.100	11	BOZARTH, JAMES F
SE1/4 SE1/4	2300	IR	1.800	11	DIETZ, JAMES
SE¼ SE¼	2400	IR	1.700	11	HAMMOND, BARBARA L
				Section 9	
NE¼ NE¼	100	IR	4.200	11	GARDNER, JAMES & CAROL
NE1/4 NE1/4	400	IR	11.000	11	GARDNER, JAMES
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	500	IR	15.700	11	GARDNER, JAMES & CAROL
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NW¼ NE¼	500	PND	0.280	11	GARDNER, JAMES & CAROL
SW1/4 NE1/4	501	IR	17.600	11	HUMPHREYS FAMILY TRUST
SE¼ NE¼	100	IR	18.100	11	GARDNER, JAMES & CAROL
SE¼ NE¼	200	IR	3.000	11	GARDNER, JAMES & CAROL
SE¼ NE¼	300	IR	1.000	11	GARDNER, JAMES & CAROL
NE¼ NW¼		IR	30.000	11	GARDNER, JAMES & CAROL
NW¼ NW½		IR	23.900	11	GARDNER, JAMES & CAROL
SW¼ NW½		IR	10.000	11	GARDNER, JAMES & CAROL
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>2</sub>		PND	3.580	11	GARDNER, JAMES & CAROL
SE¼ NW¼		IR	20.400	11	GARDNER, JAMES & CAROL
NE'4 SW'4		IR	22.100	11	GARDNER, JAMES & CAROL
NW1/4 SW1/4		IR	2.000	11	FAHLGREN, MICHAEL J
NW1/4 SW1/4		IR	0.500	11	BROWN, TIMOTHY RUSSELL
NW1/4 SW1/4		IR	1.000	11	BROWN, TIMOTHY RUSSELL
NW1/4 SW1/4		IR	2.000	11	WALKER, WALTER W
NW1/4 SW1/4		IR IR	1.500	11	FOSS, ART
NW1/4 SW1/4		IR IR	2.000	11	MATTOS, JILL L
NW1/4 SW1/4		IR	2.000	11	•
NW1/4 SW1/4		IR IR	0.300	11	WILKERSON, MARK S BOZARTH, JAMES F
NW1/4 SW1/4			2.000		•
		IR IR		11	SMITH, DANIEL L
NW¼ SW½		IR ID	2.000	11	WOOD, LEWIS O
NW¼ SW½		IR ID	1.300	11	ANDERSON, RICHARD L
SW1/4 SW1/4		IR ID	1.500	11	BYERLEY, JOHN W
SW1/4 SW1/4		IR ID	2.000	11	PETERSEN, GARY H
SW1/4 SW1/4		IR ID	4.700	11	SELLERS, RANDOLPH M &
SW1/4 SW1/4		IR.	0.500	11	BROWN, TIMOTHY RUSSELL
SW1/4 SW1/4		IR.	0.200	11	DIETZ, JAMES
SW1/4 SW1/4		IR.	10.440	11	HAMMOND, BARBARA L
SW1/4 SW1/4		IR.	1.700	11	ANDERSON, RICHARD L
SE¼ SW¼	1000	IR.	2.000	11	MILLER, RONALD H
SE¼ SW¼	1100	IR	4.110	11	SMITHERS, SUZANNE J
SE1/4 SW1/4	1200	IR	0.800	11	SMITH, JANICE A &
SE1/4 SW1/4	1300	IR	0.500	11	BYERLEY, JOHN W
SE1/4 SW1/4	600	IR	2.500	11	ANDERSON, RICHARD L
SE¼ SW¼	700	IR	2.000	11	ANDERSON, RICHARD L
SE¼ SW¼	800	IR	4.500	11	ANDERSON, RICHARD L
SE¼ SW¼	900	IR	2.000	11	GREEN, JOHN S
NE¼ SE¼	400	IR	0.900	11	HUMPHREYS FAMILY TRUST
NE¼ SE¼	400	PND	0.600	11	HUMPHREYS FAMILY TRUST
NE¼ SE¼	500	IR	25.900	11	GARDNER, JAMES & CAROL
NW¼ SE¼	500	IR	25.400	11	GARDNER, JAMES & CAROL
SW1/4 SE1/4	500	IR	28.000	11	GARDNER, JAMES & CAROL
SE¼ SE¼	600	IR	11.000	11	SCHOONMAKER, DOROTHY C
				Section 10	
NW¼ NW½	4 300	IR	0.900	11	GARDNER, JAMES & CAROL
SW¼ NW½	4 400	IR	1.400	11	HUMPHREYS FAMILY TRUST
NW1/4 SW1/	4 400	IR	7.300	11	HUMPHREYS FAMILY TRUST
SE1/4 SW1/4	100	IR	4.390	11	OREGON STATE PARKS
NE¼ SE¼	300	IR	0.800	11	SHALLEY, JANET M
NE1/4 SE1/4	400	IR	1.300	11	SHERIDAN, DOUGLAS ET AL
NE¼ SE¼	500	IR	0.400	11	HANCOCK, DAVID
NW1/4 SE1/4		IR	1.700	11	SHALLEY, JANET M
NW1/4 SE1/4		IR	1.700	11	SHERIDAN, DOUGLAS ET AL
NW1/4 SE1/4		IR	0.500	11	HANCOCK, DAVID
NW1/4 SE1/4		IR	1.200	11	KEYTE, STUART A
SW1/4 SE1/4		IR	4.000	11	VANDERWILT, ELLIS
SW1/4 SE1/4		IR	2.500	11	SOULE, WILLIAM P
SW1/4 SE1/4		IR	3.500	11	LUSK, SCOTT A
SW¼ SE¼		IR	2.500	11	BERG, SHARON
S /4 SE/4	.200		0		

SW1/4 SE1/4	600	IR	0.500	11	HANCOCK, DAVID
SW1/4 SE1/4	800	IR	0.550	11	KEYTE, STUART A
SW1/4 SE1/4	801	IR	1.250	11	GIBSON, MARLA ET AL
SW1/4 SE1/4	900	IR	5.000	11	BREWER, RUSSELL C
SE1/4 SE1/4	101	IR	2.000	11	LAY, STEVEN H
SE1/4 SE1/4	103	IR	4.250	11	MACNEILL, MURRAY
SE1/4 SE1/4	103	IR	2.000	11	•
SE1/4 SE1/4	600	IR	3.600		MISHLER, DOUG A &
SE1/4 SE1/4	700	IR	1.250	11	HANCOCK, DAVID
SE1/4 SE1/4	701	IR	1.230	11 11	WILLIAMS, DEBRA J
SE/4 SE/4	701	IIC	1.000		DAY, CURTIS
				Section 11	
SE¼ NE¼	300	IR	6.200	11	RE-GRET, INC
SE1/4 NE1/4	400	IR	3.000	11	WARD, ELMER S
NE¼ NW¼	203	IR	1.500	11	•
NW¼ NW¼	300	IR	2.000	11	MENDENHALL, ALFRED L
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	300	IR			BOSCHMA, FRED
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR IR	1.750	11	MCFARLANE, BETTE J
			2.000	11	WRIGHT, CAROL F
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR ID	3.500	11	MCFARLANE, DEBORAH R
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR ID	3.600	11	LOREY, JOHN P
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR IR	1.000	11	FOUST, BARBARA &
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	501	IR	1.250	11	GOLDSTEIN, RICK N ET AL
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	1.000	11	AYRES, MARVIN V
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR.	2.500	11	WRIGHT, CAROL F
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	2.500	11	BRYANT, CHARLES L
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	2.500	11	SMITH HILL PROPERTIES, INC.
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	2.500	11	LATENSER, B
SW1/4 NW1/4		IR	2.500	11	EAGAN, JAMES J
SW1/4 NW1/4		IR	2.500	11	RUNGE, LARRY C
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	2.500	11	NICHOLS, FRANKLIN A
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	2.500	11	GOODMAN, JOHN Q
SE¼ NW¼	1000	IR	2.500	11	STASTNY, DONALD J
SE¼ NW¼	1100	IR	2.300	11	MOLE, HOWARD
SE¼ NW¼	1200	IR	2.700	11	MOLE, HOWARD
SE¼ NW¼	2100	IR	2.500	11	PENIX-BROWN, DONNA K
SE¼ NW¼	900	IR	4.800	11	CRAFTON, JASON A
NE¼ SW¼	700	IR	25.000	11	GUTHRIE, DONNA MARIE
NW¼ SW¼	1000	IR	4.500	11	ROGERS, JIMMIE
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1100	IR	4.000	11	BECK, GARY M
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	800	IR	10.500	11	DAVIS, FRANK
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	901	IR	5.000	11	BERGUM, ERIC
SW1/4 SW1/4	1200	IR	20.000	11	MOBERLY, JAY
SW1/4 SW1/4	1300	IR	5.000	11	ESKEW, ROBERT
	1400	IR	28.000	11	EBERT, WILLIAM
SW1/4 SE1/4	1500	IR	0.800	11	KING, BRITT
	1600	IR	4.200	11	KING, BRITT
SW1/4 SE1/4	1700	IR	7.000	11	ROGERSON, RONALD
	1801	IR	5.000	11	CROSS, STEVE W
	1802	IR	6.000	11	KLAUS, MONTY
	1800	IR	11.750	11	BELCHER, RON
	1800	PND	0.500	11	CENTRAL OREGON IRRIGATION
	1803	IR	3.210	11	ETTER, RANDALL LEE
5274 5274	1005	111	3.210	Section 13	
				Section 13	
AIDI/AIDI/	1.400	ID	2.000	11	IEEEDEN CARNA
	1400	IR	3.000	11	JEFFREY, GARY N
	1401	IR ID	6.500	11	MCBRIDE, KEVIN &
	1402	IR ID	2.000	11	WHITE, KENNETH M ET AL
NE¼ NE¼	1403	IR	2.000	11	OLMSTEAD, PAUL S
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NE¼ NE¼	1404	IR	3.000	11	AYRES, MARVIN V
NE¼ NE¼	1405	IR	5.000	11	COCHRAN, MIKE H
NW1/4 NE1/4	101	IR	1.000	11	RABE, DONALD
NW1/4 NE1/4	102	IR	3.900	11	DOWNS, ROBERT L
NW¼ NE¼	103	IR	1.000	11	BERG, SHARON
NW¼ NE¼	200	IR	1.000	11	CHUBB, CAROLINE
NW¼ NE¼	300	IR	1.000	11	SENN, JOSEPH L
					•
NW¼ NE¼	301	IR	0.600	11	DOWNS, ROBERT L
NW¼ NE¼	400	IR	4.000	11	SKEEN, MICHAEL C
NW¼ NE¼	401	IR	2.000	11	JUSTICE, DONALD R
NW¼ NE¼	402	IR	2.000	11	FIRCH, CHARLES
SW¼ NE¼	500	IR	7.150	11	GALLIANO, STEVEN J
SW¼ NE¼	501	IR	3.250	11	SWIFT, KEVEN
SW¼ NE¼	502	IR	5.200	11	BOWEN, ROBERT L
SW¼ NE¼	503	IR	1.800	11	BOWEN, ROBERT L
SW1/4 NE1/4	504	IR -	2.000	11	BOWEN, ROBERT L
SW1/4 NE1/4	505	IR	5.600	11	HAWES, SCOTT W
SE1/4 NE1/4	1501	IR	3.500	11	MORENTIN, DENNIS R
SE¼ NE¼	1600	IR	3.500	11	SHOWN, CHARLES G
SE1/4 NE1/4	1700	IR	3.500	11	HENNING, JOHN A
SE¼ NE¼	1800	IR	3.500	11	GROESZ, WILLIAM
SE¼ NE¼	600	IR	1.000	11	MARTINEZ, JOSEPH M
SE¼ NE¼	601	IR	1.500	11	SUDERNO, ROBERT J
SE¼ NE¼	700	IR	3.000	11	STEEL, JEFFREY C
	800	IR		11	,
SE¼ NE¼			3.500		HAWKS FAMILY TRUST
SE¼ NE¼	901	IR	3.500	11	HAWKS FAMILY TRUST
NE¼ NW¼	101	IR	18.300	11	OREGON STATE PARKS
NE¼ NW¼	1500	IR	2.000	11	OREGON STATE PARKS
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	200	IR	0.700	11	OREGON STATE PARKS
NE1/4 NW1/4	300	IR	0.800	11	OREGON STATE PARKS
NE¼ NW¼	400	IR	0.800	11	OREGON STATE PARKS
NE¼ NW¼	500	IR	0.900	11	DAY, ROBERT L
NE¼ NW¼	600	IR	0.600	11	DAY, ROBERT L
SW1/4 NW1/4	1300	IR	10.000	11	OREGON STATE PARKS
SE1/4 NW1/4	1000	IR	4.100	11	EBY, DAVID L
SE1/4 NW1/4	1100	IR	9.000	11	CLARKE, WILLIAM LEONARD
SE1/4 NW1/4	1200	IR	5.000	11	TITTLE, AVERY
SE¼ NW¼	700	IR	7.500	11	COSTELLO, DONALD O.B.
SE1/4 NW1/4	800	IR	4.500	11	EBY, DAVID L
SE¼ NW¼	900	IR	4.500	11	EBY, DAVID L
NE1/4 SW1/4	100	IR	3.060	11	GRIFFIN, CURTIS L
NE1/4 SW1/4	1000	IR	2.200	11	SPIES, EDWARD
NE¼ SW¼	1200	IR	4.500	11	LAWRENCE, GARY DALE
NE¼ SW¼	1300	IR	4.000	11	GRIFFIN, CURTIS L
NE¼ SW¼	1400	IR	4.000	11	ALDERSON, IVAN E
NE' <sub>4</sub> SW' <sub>4</sub>	1500	IR	4.600	11	•
					DOLAN, CHRISTINA L
NEW SWW	1600	IR	4.600	11	DOLAN, CHRISTINA L ET AL
NE¼ SW¼	1700	IR	2.000	11	BROOKS, STEVEN P
NE¼ SW¼	200	IR	2.200	11	CURTIS, ARCHIE
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	1.300	11	SPIES, EDWARD
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	200	IR	1.300	11	CURTIS, ARCHIE
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	300	IR	3.500	11	HEEREN, GUNTHER
NW¼ SW¼	400	IR	3.500	11	EMERSON, GERALDINE
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	500	IR	3.500	11	SMITH, DON IAN
NW¼ SW¼	600	IR	3.800	11	BUCARIA, GARVAN
NW¼ SW¼	700	IR	2.700	11	BUCARIA, GARVAN
NW¼ SW¼	800	IR	3.500	11	ELY, ROBERT W
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	900	IR	4.000	11	VANDERPLAAT, ANDREW E
SW1/4 SW1/4	1100	IR	24.000	11	LANTZ, MRS THELMA
SE1/4 SW1/4	1100	IR	13.250	11	LANTZ, MRS THELMA

SE1/4 SW1/4 1101	IR	0.900	11	MOBERLY, JAY
SE¼ SW¼ 1102	IR	1.000	11	PRIDAY, LLOYD
NE¼ SE¼ 100	IR	26.400	11	HINZMAN, BARBARA - ESTATE
NE¼ SE¼ 200	IR	3.000	11	MCLAUGHLIN, DOUGLAS C
NE¼ SE¼ 405	IR	0.700	11	TOLKE, WILLIAM I
NW'4 SE'4 100	IR IR			ŕ
		14.100	11	HINZMAN, BARBARA - ESTATE
NW¼ SE¼ 405	IR	11.600	11	TOLKE, WILLIAM I
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 405	PND	0.600	11	TOLKE, WILLIAM I
$SW^{1}/_{4}SE^{1}/_{4}$ 402	IR	26.100	11	ABBAS, JACK
$SW^{1}/_{4}SE^{1}/_{4}$ 402	PND	1.200	11	ABBAS, JACK
SW¼ SE¼ 405	IR	2.500	11	TOLKE, WILLIAM I
$SE\frac{1}{4}SE\frac{1}{4}$ 100	IR	2.500	11	HINZMAN, BARBARA - ESTATE
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 400	IR	7.500	11	SWIFT, JAMES A
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 402	IR	13.500	11	ABBAS, JACK
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 403	IR	1.500	11	ABBAS, JERRY G
SE1/4 SE1/4 404	IR	1.000	11	HANNEY, DERWYN T
			Section 14	
NE¼ NE¼ 302	IR	1.000	11	CAROLYN S CHAMBERS TRUST
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 300	IR	24.500	11	
				CAROLYN S CHAMBERS TRUST
SW¼ NE¼ 300	IR ID	26.600	11	CAROLYN S CHAMBERS TRUST
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 301	IR IR	4.800	11	CAROLYN S CHAMBERS TRUST
NE¼ NW¼ 1200	IR	3.400	11	BETUEL, KENNETH C
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1300	IR	3.000	11	MAZZA, TIMOTHY J - ESTATE
NE¼ NW¼ 1400	IR	1.400	11	SKELTON, BRADLEY C
NE¼ NW¼ 3500	IR	1.700	11	FERGUSON, DERYL
NE¼ NW¼ 3600	IR	4.500	11	HARRIS, MRS DEL
NE¼ NW¼ 3700	IR	4.000	11	FULLER, CHRIS C
NE¼ NW¼ 3800	IR	2.100	11	ROGERS, DOYLE
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 400	IR	4.000	11	RALPH, JEFF
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 401	IR	3.000	11	BEACH, DOUGLAS E
NW¼ NW¼ 2800	IR	1.000	11	BARR, LARRY A
NW¼ NW¼ 2900	IR	3.700	11	HARRIS, MRS DEL
NW¼ NW¼ 3000	IR	4.420	11	HARRIS, MRS DEL
NW¼ NW¼ 3100	IR	3.000	11	HARRISON, HARRY B
NW¼ NW¼ 3200	IR	3.000	11	CARTER, JAY D
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 3300	IR	3.500	11	CARTER, JAY D
				,
NW¼ NW¼ 3800	IR ID	0.900	11	ROGERS, DOYLE
SW¼ NW¼ 2100	IR ID	5.000	11	HARRIS, MRS DEL
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 2300	IR IR	4.000	11	HARRIS, MRS DEL
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 2400	IR	4.500	11	HARRIS, MRS DEL
SW¼ NW¼ 3300	IR	0.500	11	CARTER, JAY D
SE¼ NW¼ 1400	IR	2.400	11	SKELTON, BRADLEY C
SE¼ NW¼ 1500	IR	2.200	11	SKELTON, BRADLEY C
SE¼ NW¼ 1600	IR	3.500	11	WRIGHT, ROBERT C
SE¼ NW¼ 1700	IR	2.500	11	WRIGHT, ROBERT C
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1800	IR	2.000	11	HARRIS, MRS DEL
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1900	IR	4.980	11	HARRIS, MRS DEL
SE1/4 NW1/4 3400	IR	3.000	11	HARRIS, MRS DEL
SE1/4 NW1/4 3500	IR	2.520	11	FERGUSON, DERYL
NE¼ SW¼ 600	IR	20.000	11	HARRIS, MRS DEL
NW¼ SW¼ 700	IR	31.000	11	WOOD, JOE
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 800	IR	23.000	11	SHAW, NATHAN C
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 801		10.000	11	ALBERT & MELBA GRANT
SE' <sub>4</sub> SW' <sub>4</sub> 1000	IR IB	2.200	11	ROSEBROOK, DWAYNE
SE' <sub>4</sub> SW' <sub>4</sub> 1100	IR ID	5.000	11	LEUNEN, MAARTEN J
SE¼ SW¼ 900	IR	22.900	11	TOTTEN, FLOYD
NE¼ SE¼ 500	IR I	33.400	11	LEISER, SHIRLEY
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 500		33.200	11	LEISER, SHIRLEY
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 500	IR	33.700	11	LEISER, SHIRLEY

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CEI/ CEI/	500	ID	26.700	11	I FIGER GIVEN DV
SE¼ SE¼	500	IR	36.700	11 Section 15	LEISER, SHIRLEY
				Section 13	
NE¼ NE¼	100	IR	12.070	11	FOSS, C B
NW¼ NE¼	100	IR	3.100	11	FOSS, C B
SW1/4 NE1/4	101	IR	0.980	11	LIVINGSTON, HELEN
SW¼ NE¼	103	IR	10.020	11	LIVINGSTON, HELEN
SW¼ NE¼	117	IR	0.100	11	HALL, LEONARD C
SW¼ NE¼	200	IR	0.240	11	SAWYER, MILTON F
SW¼ NE¼	201	IR	0.900	11	SAWYER, MILTON F
SW¼ NE¼	202	IR	0.500	11	GILBERTSON, WYNN
SW1/4 NE1/4	203	IR IB	0.300	11	TERREBONNE CONGREGATION
SW¼ NE¼ SW¼ NE¼	505	IR IB	0.400	11	FARRINGTON, DOROTHY
SW1/4 NE1/4 SW1/4 NE1/4	600 604	IR IR	0.380 0.100	11 11	ABBAS, JACK HALL, LEONARD C
SW1/4 NE1/4	605	IR	0.180	11	VAUGHAN, GEORGE H
SW1/4 NE1/4	606	IR	0.260	11	PETTIT, VIVIAN
SW14 NE14	700	IR	0.410	11	BURTON, DEANNA
SE1/4 NE1/4	200	IR	0.820	11	KOOPS, BEN
SE¼ NE¼	202	IR	0.680	11	ESTABROOK, FREDERICK J
SE1/4 NE1/4	204	IR	1.400	11	WILSON, FRANK A
SE1/4 NE1/4	207	IR	0.400	11	DAVIS, LARRY N
SE1/4 NE1/4	209	IR	0.080	11	CHRISTENSEN, CLIFFORD
SE1/4 NE1/4	211	IR	0.550	11	PARKER, ROY
SE1/4 NE1/4	212	IR	0.420	11	JOHNSON, ROBERT L JR
SE¼ NE¼	214	IR	0.440	11	PARTIN, DOROTHEA J
SE1/4 NE1/4	215	IR	0.280	11	GRIFFIN, DAVID B
SE¼ NE¼	300	IR	0.280	11	CHRISTENSEN, CLIFFORD
SE1/4 NE1/4	400	IR	0.350	11	FERGUSON, KEITH A
SE1/4 NE1/4	401	IR	1.040	11	PARKER, ROY
SE1/4 NE1/4	403	IR	0.510	11	PARKER, ROY
SE1/4 NE1/4	500	IR	0.850	11	HELMS, SUSAN ET AL
SE¼ NE¼	501	IR	0.830	11	FORTENBERRY, ALBERTA
NE¼ SW¼	100	IR	0.700	11	ENDICOTT, REASE N
	3100	IR	0.280	11	CHAIN, ROBBIE
	3200	IR	0.460	11	BURRIS, PATRICK L
	3500	IR	0.110	11	POWELL, MRS IRENE
	3600	IR IB	0.110	11	POWELL, MRS IRENE
NE¼ SW¼	500	IR IB	0.230	11 11	WILSON, JAMES L ET AL SAWDYE, RICHARD E
NE¼ SW¼ NE¼ SW¼	606 607	IR IR	0.300 0.400	11	PRINCE, JOSEPH M
NE¼ SW¼ NE¼ SW¼	638	IR	0.400	11	JONES, GARY C
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	648	IR	0.130	11	CARRELL, BRADFORD L
NE1/4 SW1/4	650	IR	0.320	11	CARRELL, BRADFORD L
NW1/4 SW1/4		IR	0.500	11	MARSHALL, STEPHEN
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	0.160	11	WERNER, KATHLEEN E
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	0.250	11	COLE, JOHN D
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	0.340	11	SHORTREED, WAYNE E
NW1/4 SW1/4		IR	0.080	11	SHORTREED, WAYNE E
NW1/4 SW1/4	1007	IR	0.230	11	PECK, LORNA
NW1/4 SW1/4	1009	IR	0.200	11	SHORTREED, WAYNE E
NW1/4 SW1/4		IR	0.560	11	SAMMONS, KATHY
NW1/4 SW1/4	213	IR	0.120	11	MAHONEY, KEVIN T
NW¼ SW¼	239	IR	0.240	11	RIDGEWAY, RICHARD G
NW¼ SW¼	246	IR	0.330	11	SCHIFFERNS, ANTHONY E
NW¼ SW¼	249	IR	0.300	11	RICKETTS, ROBERT
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	250	IR	0.300	11	DENNISON, ARLEN R
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	253	IR	0.200	11	KENNEDY, JANET RAYE &
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	257	IR	0.500	11	FALK, RODNEY A
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	258	IR	0.240	11	ANDERSON, MICHAEL JENS

NW¼ SW¼	262	IR	0.330	11	COLGRAVE, JOAN M
SW1/4 SW1/4 1	400	IR	1.120	11	JACKSON, ROBERT A
SW1/4 SW1/4 1	500	IR	2.280	11	BOONE, JOHN W
SW1/4 SW1/4 1	600	IR	1.500	11	WEBB, OLAN
SW1/4 SW1/4 1	700	IR	0.600	11	LINVILLE, JANE E
		IR	0.480	11	HUGHLEY, WILLIAM A
		IR	0.180	11	SAUNDERS, JOHN C
		IR	1.340	11	SAUNDERS, KATHARINE
		IR	0.240	11	SAUNDERS, KATHARINE
		IR	0.180	11	SAUNDERS, JOHN C
			0.240	11	SAUNDERS, KATHARINE
SW1/4 SW1/4 2		IR	0.790	11	SAUNDERS, KATHARINE
SW1/4 SW1/4 2		IR	1.190	11	SAUNDERS, KATHARINE
SW1/4 SW1/4 2		IR	0.880	11	DUNCAN, DENVER
		IR	0.280	11	MORROW, HERBERT N
		IR	0.160	11	MORROW, HERBERT N
SW1/4 SW1/4 2		IR	0.360	11	FUNKHOUSER, DONALD R
		IR	1.280	11	HUGHLEY, JON K
		IR	0.600	11	HUGHLEY, JON K
		IR	0.240	11	JACKSON, ROBERT A
		IR	0.240	11	NOAH, LEONARD
		IR	0.240	11	FRIER, FRANK D
		IR	2.420	11	VERNON, GUY E
		IR	0.960	11	VERNON, GUY E
		IR	0.090	11	ABBAS, JACK
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	0.240	11	ESKEW, MARSHALL
		IR	0.210	11	ESKEW, MARSHALL
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	4.500	11	REDMOND SCHOOL DISTRICT
NE1/4 SE1/4		IR	0.240	11	HANEY, LARRY R
NE¼ SE¼		IR	1.280	11	CYRUS, RAY
NE1/4 SE1/4			0.320	11	CYRUS, RAY
NE¼ SE¼		IR	1.000	11	GRAVES, SUZANNE M ET AL
NE1/4 SE1/4		IR	1.920	11	CISCO, HAROLD
NW1/4 SE1/4		IR	2.000	11	HANEY, LARRY R
NW1/4 SE1/4		IR	1.700	11	PYRITZ, ROSSIE
NW1/4 SE1/4		IR	0.300	11	PYRITZ, ROSSIE
NW1/4 SE1/4		IR	0.880	11	FORESTER, V LYNN
NW1/4 SE1/4		IR	0.460	11	MILLER, RONALD TIMOTHY
		IR	0.400	11	DEXTER, FRED
		IR	0.300	11	DEXTER, FRED
		IR	0.400	11	REILLY, PATRICK G
		IR	0.710	11	WILLIAMS, GLEN
		IR	0.400	11	WILLIAMS, GLEN
	1401	IR .	1.940	11	WILLIAMS, GLEN
NW1/4 SE1/4 1	1402	IR	1.600	11	WILLIAMS, GLEN
NW1/4 SE1/4	301	IR	0.980	11	CLARK, WILLIAM T
NW1/4 SE1/4	501	IR	0.550	11	WILLIAMS, LEONARD C
NW1/4 SE1/4	502	IR	1.240	11	WILLIAMS, LEONARD C
SW1/4 SE1/4	100	IR	3.360	11	MCCOIN, LYNN
SW1/4 SE1/4	105	IR	0.900	11	MCCOIN, LYNN
SW1/4 SE1/4 1	1600	IR	0.540	11	FERGUSON, DERYL
SW1/4 SE1/4	200	IR	0.220	11	TOTTEN, FLOYD
		IR	0.500	11	FEHRENBACHER, TED
	2201	IR	0.360	11	PACIFIC NORTHWEST BELL
	2300	IR	0.320	11	DENT, RICHARD
		IR	0.300	11	DENT, GWENDOLYN
	2500	IR	1.900	11	MCCOIN, WALTER R
	2600	IR	4.120	11	BIDWELL, WALTER
	2700	IR	5.500	11	FERGUSON, DERYL
SW1/4 SE1/4	300	IR	0.560	11	MATHIESEN, PAUL

SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 600A3	IR 0.400	11	OREGON TRUNK RAILWAY
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 2600	IR 1.000	11	BIDWELL, WALTER
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 300	IR 1.920	11	MCCOIN, LYNN
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 400	IR 0.960	11	DODSON, JAMES O
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 401	IR 0.480	11	•
SE' <sub>4</sub> SE' <sub>4</sub> 402			DODSON, JAMES O
	IR 0.840	11	DODSON, JAMES O
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 403	IR 0.600	11	DODSON, JAMES O
SE¼ SE¼ 405	IR 2.000	11	WIEHR, LAURANCE
SE¼ SE¼ 411	IR 0.300	11	DODSON, JAMES O
$SE\frac{1}{4}SE\frac{1}{4}$ 412	IR 0.240	11	DODSON, JAMES O
		Section 16	
NE¼ NE¼ 2200	IR 38.000	11	FAST, ROBERT L
NW¼ NE¼ 100	IR 38.000	11	THOMAS, JIM
SW¼ NE¼ 100	IR 39.000	11	THOMAS, JIM
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 400	IR 17.600	11	GATES, SUSAN J
SE¼ NE¼ 401	IR 4.270	11	KUPETZ, DAVID J
SE¼ NE¼ 402	IR 4.700	11	CORRADINI, RICHARD F
SE¼ NE¼ 500	IR 1.500	11	PARKER, ARTHUR L
SE¼ NE¼ 600	IR 6.000	11	CLARK, JOHN P
SE¼ NE¼ 700	IR 2.300	11	BURRIS, JOHN
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 200	IR 7.400	11	JOHANNSEN, MARTIN
NE¼ NW¼ 201	IR 9.600	11	JOHANNSEN, MARTIN
NE¼ NW¼ 300	IR 17.200	11	JOHNSON, BRENT L
NW¼ NW¼ 1900	DUST 1.200	11	TERREBONNE HORSE CLUB
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1900	IR 1.600	11	TERREBONNE HORSE CLUB
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1901	IR 6.500	11	
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 2000			ROLEY, ROGER L
		11	ELWESS, A LOUIS
NW¼ NW¼ 2100	IR 8.700	11	PALMER, CARL K
SW¼ NW¼ 1600	IR 4.370	11	BURRESS, LOVELL D
SW¼ NW¼ 1601	IR 10.000	11	BURRESS, LOVELL D
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1700	IR 3.000	11	TERRY, EVELYN L
SW¼ NW¼ 1800	IR 9.000	11	CARTER, DANA R
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1801	IR 7.480	11	MEWES, MAURICE D
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 300	IR 38.800	11	JOHNSON, BRENT L
NE¼ SW¼ 900	IR 39.900	11	BECHTEL, LOUISE
NW¼ SW¼ 1400	IR 1.850	11	TRUSSELL, GERALD L
NW¼ SW¼ 1401	IR 12.930	11	CLARK, DANNY R
NW¼ SW¼ 1500	IR 17.130	11	NASH, ROBERT T
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1100	IR 3.000	11	BLACKBURN, WALLACE
SW1/4 SW1/4 1300	IR 1.780	11	ADAME, RAMON
SE¼ SW¼ 1000	IR 33.800	11	LINTON, ROGER WILLIAM
NE¼ SE¼ 801	IR 37.000	11	BROOKS, ROBERT
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 900	IR 36.300	11	BECHTEL, LOUISE MCCULLOUGH
SW1/4 SE1/4 901	IR 39.000	11	LINTON, ROGER WILLIAM
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 800	IR 36.800	11	HAMMOND, BARBARA L
		Section 17	
NE¼ NE¼ 100	IR 16.500	11	ELWESS, A LOUIS
NE¼ NE¼ 300	IR 14.000	11	DODRILL, EDGAR
NE¼ NE¼ 400	IR 2.700	11	GUNZNER, JOHN H
SW¼ NE¼ 2600	PND 1.000	11	CENTRAL OREGON IRRIGATION
	IR 37.210	11	GUNZNER, JOHN H
NE¼ SE¼ 400	IR 36.000	11 Section 19	GUNZNER, JOHN H
NIEL/ GEL/ COO	ID 1.700	Section 18	ADAMO BOOER I
NE¼ SE¼ 300	IR 1.700	11	ADAMS, ROGER J
NE¼ SE¼ 400	IR 2.000	11	DUMMITT, RAMON
NE¼ SE¼ 500	IR 1.000	11	FORD, MARK T
NE¼ SE¼ 500	PND 3.660	11	CENTRAL OREGON IRRIGATION
NE¼ SE¼ 600	PND 7.020	11	CENTRAL OREGON IRRIGATION
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NE¼ SE¼ NE¼ SE¼ NE¼ SE¼ SE¼ SE¼	700 700 800 500	IR PND PND IR	3.700 1.770 2.520 0.480	11 11 11 11 Section 19	PETERSON, ROBERT D CENTRAL OREGON IRRIGATION CENTRAL OREGON IRRIGATION FORD, MARK T
NE¼ NE¼	100	IR	20.000	11	EWALT, CANDACE ET AL
NE¼ NE¼	101	IR	9.000	11	STORMS, JAMES D
NE¼ NE¼	102	IR	4.000	11	NASH, DOUG
NE¼ NE¼	103	IR	4.000	11	SURFACE, DONALD L
NW¼ NE¼	101	IR	35.000	11	STORMS, JAMES D
SW¼ NE¼	200	IR	4.600	11	CLARK, GERALD
SW¼ NE¼	<ul><li>201</li><li>202</li><li>203</li></ul>	IR	11.350	11	PARKER, FORREST R
SW¼ NE¼		IR	10.000	11	PHILLIPS, CLIFFORD R
SW¼ NE¼		IR	8.000	11	PAYE, HAROLD L
SE¼ NE¼	100	IR	36.000	11	EWALT, CANDACE ET AL
NE¼ NW¼	600	IR	18.800	11	DENT, LOWELL
NE¼ NW¼	700	IR	13.000	11	LAW, DAVID J
NW¼ NW¼	801	IR	32.700	11	CURTIS, JOHN W
SW¼ NW¼	800	IR	7.000	11	BROCK, CARL
SW¼ NW¼	801	IR	16.300	11	CURTIS, JOHN W
SE¼ NW¼	500	IR	32.000	11	MITCHELL, ROBERT
NE¼ SW¼	100	IR	32.500	11	FREDERICK, EUGENE
NW¼ SW¼	200	IR	4.000	11	ROUNDS, R D
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	300	IR	3.000	11	SMALLEY, JON C
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	300	PND	0.200	11	SMALLEY, JON C
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	402	IR	3.500	11	SOPHY, RAYMOND P
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	500	IR	4.000	11	BECKER, MICHAEL D
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	600	IR	2.500	11	HEATHCOTE, PATRICIA A
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	700	IR	4.000	11	STEWART, JESSIE
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	800	IR	3.000	11	MCPHEETERS, RICHARD
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	900 200 300	IR IR IR IR	3.000 3.000 18.600 10.000	11 11 11	HARGREAVES, KEVIN WILLIAMS, DONALD D STIREWALT, JAMES M II
NW¼ SE¼ SE¼ SE¼	400 300	IR IR	15.000 7.500	11 11 Section 20	FREDERICK, EUGENE STIREWALT, JAMES M II
NE¼ NE¼	0	IR	0.600	11	OREGON TRUNK RAILWAY
NE¼ NE¼	100	IR	7.000	11	MCINTOSH, C D
NE¼ NE¼	200	IR	5.000	11	YOUNG, C DUFF & MARGARET
NE¼ NE¼	201	IR	1.330	11	YOUNG, C DUFF & MARGARET
NE¼ NE¼	202	IR	14.600	11	WIEHR, LAURANCE
NW¼ NE¼	0	IR	3.300	11	OREGON TRUNK RAILWAY
NW¼ NE¼	202	IR	30.600	11	WIEHR, LAURANCE
SW¼ NE¼	202	IR	21.060	11	WIEHR, LAURANCE
SW¼ NE¼	800	IR	2.000	11	KERSLAKE, ROBERT H
SW¼ NE¼	900	IR	3.000	11	BALLEW, ERIC A
SE¼ NE¼	100	IR	26.000	11	MCINTOSH, C D
SE¼ NE¼	<ul><li>202</li><li>302</li><li>303</li></ul>	IR	4.100	11	WIEHR, LAURANCE
NE¼ NW¼		IR	1.250	11	SYKES, DAMON B
NE¼ NW¼		IR	5.500	11	INTERNATIONAL CHURCH
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	304	IR	6.500	11	MCFARLANE, MICHAEL
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	305	IR	7.000	11	BRUSVEN, RONALD D
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	400	IR	8.000	11	MCCLAY, JOE L
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	401	IR	11.000	11	ELLIS, ANTHONY
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	403	IR	3.000	11	MEDARIS, JANICE ET AL
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	404	IR	6.000	11	MEDARIS, JANICE ET AL
NW¼ NW¼	405	IR	4.000	11	PARKS, KENNETH D
SW¼ NW¼	402	IR	17.710	11	WIEGLENDA, HARRY

SW1/4 NW1/4	502	IR	4.000	11	HULSTEIN, JEFFERY C
SE1/4 NW1/4	300	IR	3.750	11	CHAMBERS, MARC W
SE1/4 NW1/4	601	IR	3.600	11	SIMPSON, RICHARD
SE1/4 NW1/4	602	IR	1.400	11	RICHARDSON, RONALD CLYDE
SE¼ NW¼	603	IR	2.500	11	SIMPSON, RICHARD
SE1/4 NW1/4	700	IR	6.000	11	CURTIS, SUZIE
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	100	IR	2.000	11	SPECE, JULIUS H II
NE¼ SW¼	101	IR	1.500	11	BUCKNER, WANEARD A
NE¼ SW¼	1201	IR	0.300	11	MUCKEY, JAMES C
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1700	IR	4.900	11	CRAIG, MARGARET
SE1/4 SW1/4	4800	IR	8.500	11	PARKER, ROY
SE1/4 SW1/4	4801	IR	28.000	11	HANSON, RICHARD K
NE¼ SE¼	1900	IR	1.440	11	FRAZIER, STEVEN E
NE¼ SE¼	1901	IR	0.500	11	HOLTBY, RALPH B
NE¼ SE¼	1902	IR	26.000	11	MCINTOSH, C D
NW1/4 SE1/4	1000	IR	1.000	11	RISCH, DAVID C
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1200	IR	3.000	11	MUCKEY, J K
NW1/4 SE1/4	1201	IR	1.300	11	MUCKEY, JAMES C
NW1/4 SE1/4	1300	IR	0.400	11	MUCKEY, JAMES C
NW1/4 SE1/4	1800	IR	6.000	11	FREDERICK, EUGENE
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1800	PND	1.200	11	FREDERICK, EUGENE
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1800	IR	9.500	11	FREDERICK, EUGENE
SE1/4 SE1/4	1800	IR	17.500	11	FREDERICK, EUGENE
SE74 SE74	1000	IK	17.300	Section 21	FREDERICK, EUGENE
				Section 21	
NE¼ NE¼	100	IR	2.000	11	LADIES PIONEER CLUB
NE¼ NE¼	200	IR	6.000	11	RIDGEWAY, RICHARD G
NE¼ NE¼	300	IR	13.200	11	MOBERLY, JAY
NW¼ NE¼		IR	28.100	11	BOEKENOOGEN, LOUISE
NW¼ NE¼		IR	1.000	11	BOEKENOOGEN, LOUISE
SW¼ NE¼	1100	IR	0.200	11	WALLER, HAROLD
SW14 NE14	1200	IR	3.100	11	DERRICK, DONALD R
SW14 NE14	1300	IR	3.060	11	MARSHALL, CHRISTOPHER E
SW'4 NE'4	1400	IR	2.510	11	ELARDO, RICHARD
SW'4 NE'4		IR	1.800	11	STANLEY B & ERMA J JAYE TRST
SW14 NE14	300	IR	0.700	11	NIELSEN, JERRY L
SW14 NE14	400	IR	5.600	11	BOEKENOOGEN, LOUISE
SW14 NE14	800	IR	1.000	11	ZOWNEY, THOMAS J
SW14 NE14	900	IR	1.950	11	SINTON, W JACK
SE'4 NE'4	1000	IR	4.300	11	MORAN, GEORGE E
SE¼ NE¼	1100	IR	3.850	11	WALLER, HAROLD
SE¼ NE¼	400	IR	4.200	11	CORKER, ROBBIE
SE¼ NE¼	500	IR	1.070	11	BLAKELEY, BLAKE H
SE¼ NE¼	600	IR	1.150	11	KRASKE, RONALD P
SE¼ NE¼	700	IR	2.040	11	LECKIE, STEVEN A
SE¼ NE¼	800	IR	3.820	11	SEARS, C ROBERT ET AL
SE¼ NE¼	900	IR	2.700	11	SINTON, W JACK
NE'4 NW'4		IR	12.400	11	BOEKENOOGEN, LOUISE
NE¼ NW¼		IR	3.200	11	LEUNEN, MAARTEN J
NE¼ NW¼		IR	14.700	11	LEUNEN, MAARTEN J
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>2</sub>		IR	32.100	11	LEUNEN, MAARTEN J
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>2</sub>		PND	0.880	11	CENTRAL OREGON IRRIGATION
SW1/4 NW1/2		IR	34.000	11	MACHAU, JOHN &
			16.300	11	BOEKENOOGEN, LOUISE
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR DNID	0.600	11	BOEKENOOGEN, LOUISE BOEKENOOGEN, LOUISE
SE¼ NW¼		PND		11	*
SE¼ NW¼		IR ID	0.800	11	COOPER, GLENN L TOW, JAMES
NE¼ SW¼		IR ID	5.000		•
NE¼ SW¼		IR IB	1.700	11	DARNELL, DUANE
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR IB	0.200	11	CONSTANTINE, MICHAEL
NE¼ SW¼	1500	IR	0.400	11	BAILEY, LAURENCE R

NE¼ SW¼ 1500	IR 1.370	11	TRONO, RICHARD
NE¼ SW¼ 1600	IR 1.200	11	CASISSA, FRED
NE¼ SW¼ 1600	IR 1.350	11	COOMBE, KEVIN R
NE¼ SW¼ 1700	IR 1.500	11	TURNER, LARRY
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 200	IR 2.480	11	JOLIN, MARC
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 300	IR 5.000	11	ROGERS, RAY
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 400	IR 1.000	11	ROGERS, RAY
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 800	IR 0.600	11	ZOWNEY, THOMAS J
NE¼ SW¼ 900	IR 1.680	11	COOPER, GLENN L
NW¼ SW¼ 1400	IR 1.920	11	DAVIS, RICHARD L
NW¼ SW¼ 1500	IR 3.220	11	BAILEY, LAURENCE R
NW¼ SW¼ 1600	IR 2.810	11	CASISSA, FRED
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2500	IR 5.090	11	FIELDS, JUDITH
NW¼ SW¼ 2600	IR 3.690	11	HAMILTON, DAVID J
NW¼ SW¼ 2700	IR 6.000	11	MCINTOSH, C D
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2800	IR 0.500	11	HOLTBY, RALPH B
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1600	IR 0.600	11	CASISSA, FRED
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1700	IR 3.260	11	SAILORS, ROBERT W
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1800	IR 3.620	11	DERRICKSON, STEVE D
SW¼ SW¼ 1900	IR 3.020 IR 2.850	11	•
			JONES, BRUCE A
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2000	IR 4.200	11	DAVIS, RICHARD L
SW1/4 SW1/4 2100	IR 5.000	11	TANLER, CLAY
SW1/4 SW1/4 2200	IR 5.000	11	TANLER, CLAY
SW1/4 SW1/4 2300	IR 4.700	11	BESSEY, ROY E
SW1/4 SW1/4 2400	IR 4.800	11	SAILORS, ROBERT W
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2500	IR 0.800	11	FIELDS, JUDITH
SE' <sub>4</sub> SW' <sub>4</sub> 1100	IR 0.600	11	HODECKER, GREGORY W
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1200	IR 0.450	11	MANEGOLD, ROBERT J
SE¼ SW¼ 1300	IR 0.400	11	BRYANT, JAY D
SE' <sub>4</sub> SW' <sub>4</sub> 1400	IR 0.800	11	CONSTANTINE, MICHAEL
SE¼ SW¼ 1600	IR 0.300	11	CASISSA, FRED
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1700	IR 1.700	11	SAILORS, ROBERT W
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1800	IR 1.600		DERRICKSON, STEVE D
SE¼ SW¼ 201	IR 3.400	11	BERMAN, MICHAEL A
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 400	IR 4.500	11	ROGERS, RAY
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 500	IR 5.000	11	ANDERSON, DUWAYNE R
SE¼ SW¼ 600	IR 3.300	11	JONES, H BART
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 700	IR 3.510	11	KRAUS, JOHN C
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1400	IR 0.100	11	CONSTANTINE, MICHAEL
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1500	IR 0.850	11	STANLEY B & ERMA J JAYE TRUST
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1500	IR 2.280	11	TRONO, RICHARD
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1600	IR 2.000	11	COOMBE, KEVIN R
NW¼ SE¼ 1700	IR 1.500	11	TURNER, LARRY
NW¼ SE¼ 300	IR 2.300	11	NIELSEN, JERRY L
NW¼ SE¼ 400	IR 3.000	11	COSENTINO, ROBERT L
$NW^{1/4}SE^{1/4}$ 500	IR 3.000	11	RANDOLPH, WILLIAM
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 600	IR 2.810	11	HUDSON, ALAN J
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 800	IR 1.400	11	ZOWNEY, THOMAS J
SW¼ SE¼ 1000	IR 0.800	11	LOUTHAN, NICK L
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1100	IR 3.900	11	HODECKER, GREGORY W
SW¼ SE¼ 1200	IR 4.550	11	MANEGOLD, ROBERT J
SW¼ SE¼ 1300	IR 4.600	11	BRYANT, JAY D
SW¼ SE¼ 1400	IR 2.000	11	CONSTANTINE, MICHAEL
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 200	IR 1.200		LOVE, STUART L
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 600	IR 0.390	11	HUDSON, ALAN J
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 700	IR 4.410	11	LITTLE, RICHARD W JR
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 800	IR 3.030	11	HAASE, MICHAEL E
SW¼ SE¼ 900	IR 4.380	11	MARNELL, EDWARD J
SE¼ SE¼ 200	IR 1.500	11	HAUSNER, JILL W
,		Section 22	•

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	NE¼ NE¼	100	IR	9.380	11	MOBERLY, JAY	
	NW¼ NE¼	100	IR	16.600	11	MOBERLY, JAY	
	SW1/4 NE1/4	100	IR	14.000	11	MOBERLY, JAY	
	SE¼ NE¼	100	IR	33.450	11	MOBERLY, JAY	
	NE¼ NW¼	100	IR	16.200	11	MOBERLY, JAY	
	NE¼ SE¼	500	IR	1.670	11	CLARK, DOYLE D, ET AL	
	SW1/4 SE1/4	300	IR	26.350	11	ABBAS. RICHARD	
	SE¼ SE¼	300	IR	11.500	11	ABBAS. RICHARD	
	SE1/4 SE1/4	400	IR	6.750	11	CHURCH, LAWRENCE H	
	SE1/4 SE1/4	401	IR	1.500	11	ANDERSON, SHERRI	
				-10-00	Section 23	in izzneon, srizida	
					2 2 3 3 2 3 2 2 2		
	NE¼ NE¼	100	IR	31.750	11	ARNETT, GARY	
	NW¼ NE¼	200	IR	18.000	11	LAURANCE, BARRY	
	SW1/4 NE1/4	300	IR	12.000	11	JEFFERS, HARRY D	
	SE¼ NE¼	100	IR	18.250	11	ARNETT, GARY	
	NE¼ NW¼	400	IR	28.750	11	MOBERLY, JAY	
	NW¼ NW¼	600	IR	3.000	11	WHISLER, MARIE	
	NW¼ NW¼	601	IR	4.310	11	WILLIAMS, ROBERT N	
	NW¼ NW¼	700	IR	6.000	11	DAVIS, GARY L	
	NW¼ NW¼	800	IR	8.000	11	JAMES, STEVENS	
	SW1/4 NW1/4	400	IR	31.800	11	MOBERLY, JAY	
	SE1/4 NW1/4	400	IR	27.800	11	MOBERLY, JAY	
	NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1100	IR	18.300	11	MILLS, HERB	
	NE¼ SW¼	1101	IR	0.200	11	BILYEU, WAYNE	
	NE¼ SW¼	400	IR	3.900	11	MOBERLY, JAY	
	NW¼ SW¼	400	IR	28.800	11	MOBERLY, JAY	
	SW1/4 SW1/4	400	IR	30.800	11	MOBERLY, JAY	
	SE1/4 SW1/4	1101	IR	6.150	11	BILYEU, WAYNE	
	SE1/4 SW1/4	904	IR	10.000	11	ELROD, WILLIAM	
	NW1/4 SE1/4	1100	IR	21.700	11	MILLS, HERB	
	SW1/4 SE1/4	1000	IR	9.900	11	KYTE, WILLIAM A ET AL	
	SW1/4 SE1/4	1001	IR	0.700	11	KYTE, WILLIAM A ET AL	
	SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1300	IR	15.400	11	NEWTON, BERTHA M	
	2 ,	-0		201100	Section 24	, 22	
	NE¼ NE¼	100	IR	24.700	11	NEAL, JAMES L	
	NE¼ NE¼	100	PND	0.300	11	NEAL, JAMES L	
	NW¼ NE¼	600	IR	24.800	11	SANDERS, JAMES	
	SW1/4 NE1/4	300	IR	2.500	11	MACKENROTH, TONI MARI	Ξ
	SW¼ NE¼	500	IR	21.600	11	SANDERS, JAMES	
	SE¼ NE¼	200	IR	30.600	11	BENHAM, JOHN G	
	NE¼ NW¼	707	IR	10.300	11	ELROD, WILLIAM	
	NW¼ NW¼	700	IR	2.100	11	ELROD, WILLIAM	
	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	701	IR	34.900	11	ELROD, WILLIAM	
	SW1/4 NW1/4	700	IR	16.800	11	ELROD, WILLIAM	
	NW¼ SW¼	700	IR	5.400	11	ELROD, WILLIAM	
					Section 25		
	NE¼ NE¼	100	IR	34.700	11	PRUITT, ROBERTA	
	NW¼ NE¼	100	IR	32.500	11	PRUITT, ROBERTA	
	SW¼ NE¼	101	IR	37.900	11	PRUITT, ROBERTA	
	SE¼ NE¼	101	IR	30.400	11	PRUITT, ROBERTA	
	SE¼ NW¼	300	IR	15.200	11	PRUITT, ROBERTA	
	NE¼ SW¼	402	IR	25.200	11	PRUITT, ROBERTA	
	NE¼ SW¼	404	IR	4.400	11	PARNELL, DANIEL B	
	NE¼ SW¼	500	IR	2.200	11	MANES, JOSEPHINE	
	NW¼ SW¼	1000	IR	13.500	11	BURKHART, RAYMOND H	
	SW¹/4 SW¹/4	600	IR	25.000	11	BOYD, LARRY R	
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NW'4 SW'4 801 IR 32.800 11 RENCHER, FRANK NW'4 SW'4 900 IR 0.500 11 RENCHER, FRANK SW'4 SW'4 801 IR 2.100 11 RENCHER, FRANK SW'4 SW'4 900 IR 13.800 11 RENCHER, FRANK SE'4 SW'4 1100 IR 37.000 11 SIMPSON, CLINTON L NE'4 SE'4 1301 IR 20.300 11 FREEBORN, ROBERT L NE'4 SE'4 1301 PND 0.200 11 FREEBORN, ROBERT L NW'4 SE'4 1301 IR 27.600 11 FREEBORN, ROBERT L NW'4 SE'4 1301 PND 0.100 11 FREEBORN, ROBERT L SW'4 SE'4 1200 IR 2.000 11 MAULT, ROY A SW'4 SE'4 1301 IR 27.800 11 FREEBORN, ROBERT L SW'4 SE'4 1301 IR 27.800 11 FREEBORN, ROBERT L SW'4 SE'4 1301 IR 23.800 11 FREEBORN, ROBERT L SE'4 SE'4 1301 IR 23.800 11 FREEBORN, ROBERT L SE'4 SE'4 1400 IR 7.000 11 FREEBORN, ROBERT L SE'4 SE'4 1400 IR 5.300 11 FREEBORN, ROBERT L SE'4 SE'4 1400 IR 5.300 11 FREEBORN, ROBERT L SW'4 NE'4 100 IR 5.300 11 FREEBORN, ROBERT L NW'4 NE'4 201 IR 0.600 11 WHITSON, JAMES NW'4 NE'4 202 IR 3.000 11 PUTVIN, KEN NW'4 NE'4 203 IR 0.300 11 BROSY, LAWRENCE NW'4 NE'4 400 IR 2.000 11 MCBRIDE, MRS JOHN P NW'4 NE'4 500 IR 3.000 11 BYERS, SALLY L								
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SW½ NW¼         801         IR         1.500         11         RENCHER, FRANK           SE½ NW¼         300         IR         28.700         11         ARNETT, JOHN           SE½ NW¼         400         IR         3.000         11         SPRINGER, DAN JR           NE½ SW¼         1000         IR         34.000         11         BRYANT, MILDRED A           NW¼ SW¼         800         IR         1.900         11         RENCHER, PETER PRESTON           NW¼ SW¼         801         IR         32.800         11         RENCHER, FRANK           SW¼ SW¼         900         IR         0.500         11         RENCHER, FRANK           SW¼ SW¼         900         IR         0.500         11         RENCHER, FRANK           SW¼ SW¼         900         IR         13.800         11         RENCHER, FRANK           SW¼ SW¼         900         IR         13.800         11         RENCHER, FRANK           SW¼ SW¼         100         IR         37.000         11         RENCHER, FRANK           SW¼ SE¼         1301         IR         20.300         11         FREEBORN, CLINTON L           NE¼ SE¼         1301         IR         20.600							,	
SE½ NW¼         300         IR         28.700         11         ARNETT, JOHN           SE½ NW¼         400         IR         3.000         11         SPRINGER, DAN JR           NE¼ SW¼         1000         IR         34.000         11         BRYANT, MILDRED A           NW¼ SW¼         800         IR         1.900         11         RENCHER, PETER PRESTON           NW¼ SW¼         801         IR         32.800         11         RENCHER, FRANK           NW¼ SW¼         900         IR         0.500         11         RENCHER, FRANK           SW¼ SW¼         801         IR         2.100         11         RENCHER, FRANK           SW¼ SW¼         900         IR         13.800         11         RENCHER, FRANK           SW¼ SW¼         900         IR         13.800         11         RENCHER, FRANK           SW¼ SE¼         1301         IR         20.300         11         RENCHER, FRANK           SE½ SE¼         1301         IR         20.300         11         FREEBORN, ROBERT L           NW¼ SE¼         1301         IR         27.600         11         FREEBORN, ROBERT L           SW¼ SE¼         1301         IR         27.80								III
SE½ NW¼         400         IR         3.000         11         SPRINGÉR, DAN JR           NE½ SW¼         1000         IR         34.000         11         BRYANT, MILDRED A           NW¼ SW¼         800         IR         1.900         11         RENCHER, PETER PRESTON           NW¼ SW¼         801         IR         32.800         11         RENCHER, FRANK           NW¼ SW¼         900         IR         0.500         11         RENCHER, FRANK           SW¼ SW¼         801         IR         2.100         11         RENCHER, FRANK           SW¼ SW¼         801         IR         2.100         11         RENCHER, FRANK           SW¼ SW¼         900         IR         13.800         11         RENCHER, FRANK           SE½ SW¼         1100         IR         37.000         11         SIMPSON, CLINTON L           NE¼ SE¼         1301         IR         20.300         11         FREEBORN, ROBERT L           NW¼ SE¼         1301         IR         27.600         11         FREEBORN, ROBERT L           SW¼ SE¼         1301         IR         27.800         11         FREEBORN, ROBERT L           SW¼ SE¼         1301         IR		SW¼ NW¼					•	
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SW'/4 SW'/4         801         IR         2.100         11         RENCHER, FRANK           SW'/4 SW'/4         900         IR         13.800         11         RENCHER, FRANK           SE'/4 SW'/4         1100         IR         37.000         11         SIMPSON, CLINTON L           NE'/4 SE'/4         1301         IR         20.300         11         FREEBORN, ROBERT L           NE'/4 SE'/4         1301         PND         0.200         11         FREEBORN, ROBERT L           NW'/4 SE'/4         1301         IR         27.600         11         FREEBORN, ROBERT L           NW'/4 SE'/4         1301         PND         0.100         11         FREEBORN, ROBERT L           SW'/4 SE'/4         1301         IR         2.000         11         FREEBORN, ROBERT L           SW'/4 SE'/4         1301         IR         27.800         11         FREEBORN, ROBERT L           SE'/4 SE'/4         1301         IR         23.800         11         FREEBORN, ROBERT L           SE'/4 SE'/4         1400         IR         7.000         11         FREEBORN, ROBERT L           SE'/4 SE'/4         1400         IR         7.000         11         FREEBORN, ROBERT L           <		NW¼ SW¼	801	IR	32.800	11	RENCHER, FRANK	
SW¼ SW¼       900       IR       13.800       11       RENCHER, FRANK         SE¼ SW¼       1100       IR       37.000       11       SIMPSON, CLINTON L         NE¼ SE¼       1301       IR       20.300       11       FREEBORN, ROBERT L         NE¼ SE¼       1301       PND       0.200       11       FREEBORN, ROBERT L         NW¼ SE¼       1301       PND       0.100       11       FREEBORN, ROBERT L         SW¼ SE¼       1301       PND       0.200       11       MAULT, ROY A         SW¼ SE¼       1301       IR       27.800       11       FREEBORN, ROBERT L         SW¼ SE¼       1301       PND       0.200       11       FREEBORN, ROBERT L         SE¼ SE¼       1301       IR       23.800       11       FREEBORN, ROBERT L         SE½ SE¼       1301       IR       23.800       11       FREEBORN, ROBERT L         SE½ SE¼       1400       IR       7.000       11       FREEBORN, ROBERT L         SE½ SE¼       1400       IR       7.000       11       FREEBORN, ROBERT L         NW¼ NE¼       100       IR       15.200       11       FREEBORN, ROBERT L         NW¼ NE¼       100<		NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	900	IR	0.500	11	RENCHER, FRANK	
SE¼ SW¼       1100       IR       37.000       11       SIMPSON, CLINTON L         NE¼ SE½       1301       IR       20.300       11       FREEBORN, ROBERT L         NE¼ SE½       1301       PND       0.200       11       FREEBORN, ROBERT L         NW¼ SE½       1301       IR       27.600       11       FREEBORN, ROBERT L         NW¼ SE½       1301       PND       0.100       11       FREEBORN, ROBERT L         SW¼ SE½       1301       IR       27.800       11       FREEBORN, ROBERT L         SW¼ SE½       1301       PND       0.200       11       FREEBORN, ROBERT L         SE½ SE½       1301       IR       23.800       11       FREEBORN, ROBERT L         SE½ SE½       1301       IR       23.800       11       FREEBORN, ROBERT L         SE½ SE½       1400       IR       7.000       11       FREEBORN, ROBERT L         SE½ SE½       1400       IR       7.000       11       FREEBORN, ROBERT L         NE¼ NE½       100       IR       15.200       11       FREEBORN, ROBERT L         NW¼ NE½       100       IR       15.200       11       FREEBORN, ROBERT L         NE½ SE½		SW1/4 SW1/4	801	IR	2.100	11	RENCHER, FRANK	
NE¼ SE¼       1301       IR       20,300       11       FREEBORN, ROBERT L         NE¼ SE¼       1301       PND       0,200       11       FREEBORN, ROBERT L         NW¼ SE¼       1301       IR       27,600       11       FREEBORN, ROBERT L         NW¼ SE¼       1301       PND       0,100       11       FREEBORN, ROBERT L         SW¼ SE¼       1200       IR       2,000       11       MAULT, ROY A         SW¼ SE¼       1301       IR       27,800       11       FREEBORN, ROBERT L         SW¼ SE¼       1301       PND       0,200       11       FREEBORN, ROBERT L         SE¼ SE¼       1301       IR       23,800       11       FREEBORN, ROBERT L         SE¼ SE¼       1400       IR       7,000       11       FREEBORN, ROBERT L         SE¼ SE¼       1400       IR       7,000       11       FREEBORN, ROBERT L         NE¼ NE¼       100       IR       7,000       11       FREEBORN, ROBERT L         NW¼ NE¼       100       IR       7,000       11       FREEBORN, ROBERT L         NE¼ SE¼       1301       IR       7,000       11       FREEBORN, ROBERT L         NE¼ SE¼       1400		SW1/4 SW1/4	900	IR	13.800	11	RENCHER, FRANK	
NE¼ SE¼       1301       IR       20,300       11       FREEBORN, ROBERT L         NE¼ SE¼       1301       PND       0,200       11       FREEBORN, ROBERT L         NW¼ SE¼       1301       IR       27,600       11       FREEBORN, ROBERT L         NW¼ SE¼       1301       PND       0,100       11       FREEBORN, ROBERT L         SW¼ SE¼       1200       IR       2,000       11       MAULT, ROY A         SW¼ SE¼       1301       IR       27,800       11       FREEBORN, ROBERT L         SW¼ SE¼       1301       PND       0,200       11       FREEBORN, ROBERT L         SE¼ SE¼       1301       IR       23,800       11       FREEBORN, ROBERT L         SE¼ SE¼       1400       IR       7,000       11       FREEBORN, ROBERT L         SE¼ SE¼       1400       IR       7,000       11       FREEBORN, ROBERT L         NE¼ NE¼       100       IR       7,000       11       FREEBORN, ROBERT L         NW¼ NE¼       100       IR       7,000       11       FREEBORN, ROBERT L         NE¼ SE¼       1301       IR       7,000       11       FREEBORN, ROBERT L         NE¼ SE¼       1400		SE1/4 SW1/4	1100	IR	37.000	11	SIMPSON, CLINTON L	
NE¼ SE¼       1301       PND       0.200       11       FREEBORN, ROBERT L         NW¼ SE¼       1301       IR       27.600       11       FREEBORN, ROBERT L         NW¼ SE½       1301       PND       0.100       11       FREEBORN, ROBERT L         SW¼ SE½       1200       IR       2.000       11       MAULT, ROY A         SW½ SE½       1301       IR       27.800       11       FREEBORN, ROBERT L         SW½ SE½       1301       PND       0.200       11       FREEBORN, ROBERT L         SE½ SE½       1301       IR       23.800       11       FREEBORN, ROBERT L         SE½ SE½       1400       IR       7.000       11       FREEBORN, ROBERT L         SE½ SE½       1400       IR       7.000       11       FREEBORN, ROBERT L         Section 27       Section 27     NE¾ NE¾ 100       IR       15.200       11       FREEBORN, ROBERT L         NW¾ NE¾ 201       IR       5.300       11       FREEBORN, ROBERT L         NW¾ NE¾ 201       IR       5.300       11       FREEBORN, ROBERT L         NW¾ NE¾ 201       IR       5.300       11       FREEBORN, ROBERT L         NW¾ NE¾ 201		NE¼ SE¼	1301	IR	20.300	11	•	
NW¼ SE¼       1301       IR       27.600       11       FREEBORN, ROBERT L         NW¼ SE¼       1301       PND       0.100       11       FREEBORN, ROBERT L         SW¼ SE¼       1200       IR       2.000       11       MAULT, ROY A         SW¼ SE¼       1301       IR       27.800       11       FREEBORN, ROBERT L         SW¼ SE¼       1301       PND       0.200       11       FREEBORN, ROBERT L         SE¼ SE¼       1301       IR       23.800       11       FREEBORN, ROBERT L         SE¼ SE¼       1400       IR       7.000       11       FREEBORN, ROBERT L         SE¼ SE¼       1400       IR       7.000       11       FREEBORN, ROBERT L         SE¼ SE¼       1400       IR       7.000       11       FREEBORN, ROBERT L         SE¼ SE¼       1400       IR       7.000       11       FREEBORN, ROBERT L         SE¼ SE¼       1400       IR       7.000       11       FREEBORN, ROBERT L         SE¼ SE¼       1400       IR       7.000       11       FREEBORN, ROBERT L         SE¼ SE¼       1400       IR       7.000       11       FREEBORN, ROBERT L         SE¼ SE¼       150<							•	
NW¼ SE¾       1301       PND       0.100       11       FREEBORN, ROBERT L         SW¼ SE¾       1200       IR       2.000       11       MAULT, ROY A         SW¼ SE¾       1301       IR       27.800       11       FREEBORN, ROBERT L         SW¼ SE¾       1301       PND       0.200       11       FREEBORN, ROBERT L         SE¼ SE¾       1301       IR       23.800       11       FREEBORN, ROBERT L         SE¼ SE¾       1400       IR       7.000       11       FREDBORN, ROBERT L         SE¼ SE¾       1400       IR       7.000       11       FREDBORN, ROBERT L         SE¼ SE¾       1400       IR       7.000       11       FREEBORN, ROBERT L         SE¼ SE¾       1400       IR       7.000       11       FREEBORN, ROBERT L         SE¼ SE¾       1400       IR       7.000       11       FREEBORN, ROBERT L         SE¼ SE¾       1400       IR       7.000       11       FREDERICK, EUGENE         NW¼ NE¾       201       IR       0.600       11       WHITSON, JAMES         NW¼ NE¾       202       IR       3.000       11       PUTVIN, KEN         NW¼ NE¾       203							•	
SW¼ SE¾       1200       IR       2.000       11       MAULT, ROY A         SW¼ SE¾       1301       IR       27.800       11       FREEBORN, ROBERT L         SW¼ SE¾       1301       PND       0.200       11       FREEBORN, ROBERT L         SE¾ SE¾       1301       IR       23.800       11       FREEBORN, ROBERT L         SE¼ SE¾       1400       IR       7.000       11       FREDBORN, ROBERT L         SE¼ SE¾       1400       IR       7.000       11       FREDBORN, ROBERT L         SE½ SE¾       1400       IR       7.000       11       FREDBORN, ROBERT L         SE¼ SE¾       1400       IR       7.000       11       FREDBORN, ROBERT L         SE¼ SE¾       1400       IR       7.000       11       FREDBORN, ROBERT L         SE¼ SE¾       1400       IR       7.000       11       FREDBORN, ROBERT L         SE¼ SE¾       1400       IR       7.000       11       FREDBORN, ROBERT L         SE¼ SE¾       1400       IR       7.000       11       FREDBORN, ROBERT L         NE¼ NE¾       100       IR       15.200       11       WHITSON, JAMES         NW¼ NE¾       201							•	
SW¼ SE¼       1301       IR       27.800       11       FREEBORN, ROBERT L         SW¼ SE¼       1301       PND       0.200       11       FREEBORN, ROBERT L         SE¼ SE¼       1301       IR       23.800       11       FREEBORN, ROBERT L         SE¼ SE¼       1400       IR       7.000       11       FAUGHT, GARY         Section 27         NE¼ NE¼       100       IR       15.200       11       FREDERICK, EUGENE         NW¼ NE¾       100       IR       5.300       11       FREDERICK, EUGENE         NW¼ NE¾       201       IR       0.600       11       WHITSON, JAMES         NW¼ NE¾       202       IR       3.000       11       PUTVIN, KEN         NW¼ NE¾       203       IR       0.300       11       BROSY, LAWRENCE         NW¼ NE¾       400       IR       2.000       11       MCBRIDE, MRS JOHN P         NW¼ NE¾       500       IR       3.000       11       BYERS, SALLY L							•	
SW¼ SE¼       1301       PND       0.200       11       FREEBORN, ROBERT L         SE½ SE¼       1301       IR       23.800       11       FREEBORN, ROBERT L         SE½ SE¼       1400       IR       7.000       11       FAUGHT, GARY         Section 27         NE¼ NE¼       100       IR       15.200       11       FREDERICK, EUGENE         NW¼ NE¼       100       IR       5.300       11       FREDERICK, EUGENE         NW¼ NE¼       201       IR       0.600       11       WHITSON, JAMES         NW¼ NE¼       202       IR       3.000       11       PUTVIN, KEN         NW¼ NE¼       203       IR       0.300       11       BROSY, LAWRENCE         NW¼ NE¼       400       IR       2.000       11       MCBRIDE, MRS JOHN P         NW¼ NE¼       500       IR       3.000       11       BYERS, SALLY L							•	
SE¼ SE¼       1301       IR       23.800       11       FREEBORN, ROBERT L         SE½ SE½       1400       IR       7.000       11       FAUGHT, GARY         NE½ NE½       100       IR       15.200       11       FREDERICK, EUGENE         NW½ NE½       100       IR       5.300       11       FREDERICK, EUGENE         NW½ NE½       201       IR       0.600       11       WHITSON, JAMES         NW½ NE½       202       IR       3.000       11       PUTVIN, KEN         NW½ NE½       203       IR       0.300       11       BROSY, LAWRENCE         NW½ NE½       400       IR       2.000       11       MCBRIDE, MRS JOHN P         NW½ NE½       500       IR       3.000       11       BYERS, SALLY L							•	
SE¼ SE¼       1400       IR       7.000       11 FAUGHT, GARY         NE¼ NE¼       100       IR       15.200       11 FREDERICK, EUGENE         NW¼ NE¼       100       IR       5.300       11 FREDERICK, EUGENE         NW¼ NE¼       201       IR       0.600       11 WHITSON, JAMES         NW¼ NE¼       202       IR       3.000       11 PUTVIN, KEN         NW¼ NE¼       203       IR       0.300       11 BROSY, LAWRENCE         NW¼ NE¼       400       IR       2.000       11 MCBRIDE, MRS JOHN P         NW¼ NE¼       500       IR       3.000       11 BYERS, SALLY L							•	
Section 27         NE¼ NE¼       100       IR       15.200       11       FREDERICK, EUGENE         NW¼ NE¾       100       IR       5.300       11       FREDERICK, EUGENE         NW¼ NE¾       201       IR       0.600       11       WHITSON, JAMES         NW¼ NE¾       202       IR       3.000       11       PUTVIN, KEN         NW¾ NE¾       203       IR       0.300       11       BROSY, LAWRENCE         NW¾ NE¾       400       IR       2.000       11       MCBRIDE, MRS JOHN P         NW¾ NE¾       500       IR       3.000       11       BYERS, SALLY L							ŕ	
NE¼ NE¼       100       IR       15.200       11       FREDERICK, EUGENE         NW¼ NE¼       100       IR       5.300       11       FREDERICK, EUGENE         NW¼ NE¼       201       IR       0.600       11       WHITSON, JAMES         NW¼ NE¼       202       IR       3.000       11       PUTVIN, KEN         NW¼ NE¼       203       IR       0.300       11       BROSY, LAWRENCE         NW¼ NE¼       400       IR       2.000       11       MCBRIDE, MRS JOHN P         NW¼ NE¼       500       IR       3.000       11       BYERS, SALLY L		SE/4 SE/4	1400	Т	7.000		1A00111, GAK1	
NW¼ NE¼       100       IR       5.300       11       FREDERICK, EUGENE         NW¼ NE¼       201       IR       0.600       11       WHITSON, JAMES         NW¼ NE¼       202       IR       3.000       11       PUTVIN, KEN         NW¼ NE¼       203       IR       0.300       11       BROSY, LAWRENCE         NW¼ NE¼       400       IR       2.000       11       MCBRIDE, MRS JOHN P         NW¼ NE¼       500       IR       3.000       11       BYERS, SALLY L						Stati Li		
NW¼ NE¼       100       IR       5.300       11       FREDERICK, EUGENE         NW¼ NE¼       201       IR       0.600       11       WHITSON, JAMES         NW¼ NE¼       202       IR       3.000       11       PUTVIN, KEN         NW¼ NE¼       203       IR       0.300       11       BROSY, LAWRENCE         NW¼ NE¼       400       IR       2.000       11       MCBRIDE, MRS JOHN P         NW¼ NE¼       500       IR       3.000       11       BYERS, SALLY L		NE¼ NE¼	100	IR	15.200	11	FREDERICK, EUGENE	
NW¼ NE¼       201       IR       0.600       11       WHITSON, JAMES         NW½ NE½       202       IR       3.000       11       PUTVIN, KEN         NW½ NE½       203       IR       0.300       11       BROSY, LAWRENCE         NW½ NE½       400       IR       2.000       11       MCBRIDE, MRS JOHN P         NW½ NE½       500       IR       3.000       11       BYERS, SALLY L							•	
NW¼ NE¼       202       IR       3.000       11       PUTVIN, KEN         NW¼ NE¼       203       IR       0.300       11       BROSY, LAWRENCE         NW¼ NE¼       400       IR       2.000       11       MCBRIDE, MRS JOHN P         NW¼ NE¼       500       IR       3.000       11       BYERS, SALLY L							•	
NW¼ NE¼       203       IR       0.300       11       BROSY, LAWRENCE         NW¼ NE¼       400       IR       2.000       11       MCBRIDE, MRS JOHN P         NW¼ NE¼       500       IR       3.000       11       BYERS, SALLY L							•	
NW¼ NE¼       400       IR       2.000       11       MCBRIDE, MRS JOHN P         NW¼ NE¼       500       IR       3.000       11       BYERS, SALLY L							•	
NW¼ NE¼ 500 IR 3.000 11 BYERS, SALLY L							•	
							•	
IB3111 bwb Dogs 17 of 105		/ <del>-</del>	200		2.000	• •		
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NW¼ NE¼	600	IR	0.600	11	LUCAS, BUZZ T
SW1/4 NE1/4	200	IR	7.000	11	SHARP, JOYCE
SW1/4 NE1/4	201	IR	8.900	11	WHITSON, JAMES
SW1/4 NE1/4	203	IR	5.700	11	BROSY, LAWRENCE
NE¼ NW¼	700	IR	3.000	11	HOLLANDER, HEATHER
NE1/4 NW1/4	701	IR	13.800	11	HARDWICK, JANET P
NE1/4 NW1/4	702	IR	4.200	11	DAVIS, LARRY LEE
SE¼ NW¼	800	IR	12.000	11	EVANS, JEFFERY L
SE¼ NW¼	801	IR	10.500	11	BAILEY, CLARENCE J.L.
SE¼ NW¼	900	IR	3.000	11	ESCH, REX E
NE1/4 SW1/4	1005	IR	22.600	11	DAY, FLOYD E
NE'4 SW'4	1006	IR	9.800	11	SATTERLEE, PAUL
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	3.200	11	SATTERLEE, PAUL
SW1/4 SW1/4	1006	IR	38.600	11	SATTERLEE, PAUL
SE1/4 SW1/4	1005	IR	2.700	11	DAY, FLOYD E
SE1/4 SW1/4	1006	IR	25.980	11	SATTERLEE, PAUL
NW¼ SE¼	1005	IR	21.200	11	DAY, FLOYD E
NW1/4 SE1/4	1100	IR	1.100	11	LEINENWEBER, NINA J
NW1/4 SE1/4	1101	IR	0.400	11	LEIGHTON, JAMES W
NW1/4 SE1/4	1102	IR	2.500	11	SMITH, SHAUN M
SW1/4 SE1/4	1005	IR	17.000	11	DAY, FLOYD E
SE1/4 SE1/4	1300	IR	8.300	11	BEN-LEE, INC.
		IR		11	-
SE¼ SE¼	1700	IK	2.000		BEN-LEE, INC.
				Section 28	
NE1/4 SW1/4	600	IR	2.800	11	WALLACE IEDDY
	601	IR IR	4.000	11	WALLACE, JERRY
NE¼ SW¼					PETERSON, ROBERT A
SW1/4 SW1/4	1200	IR	36.000	11	WILLIAMS MICHAEL I
SE'4 SW'4	1201	IR IR	15.000	11	WILLIAMS, MICHAEL J
SE¼ SW¼	1202	IR ID	17.000	11	DONLAN, DAVID J
NW¼ SE¼	600	IR	0.200	11	WALLACE, JERRY
SW1/4 SE1/4	1300	IR	6.500	11	KARMY, JAMES R
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1301	IR	3.700	11	KARMY, JAMES R
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1302	IR ID	2.800	11	KARMY, JAMES R
SW1/4 SE1/4	1400	IR	2.000	11	HODSON, KLEEVE
				Section 29	
NIEL/ CEL/	101	DNID	2 (00	11	CENTRAL OREGONIBRICATION
NE¼ SE¼	101	PND	2.600	11	CENTRAL OREGON IRRIGATION
SW¼ SE¼	500	IR ID	5.000	11	GRIBLING, RICHARD L
SW1/4 SE1/4	600	IR	5.000	11	GRIBLING, RICHARD L
SW¼ SE¼	600	PND	3.000	11	CENTRAL OREGON IRRIGATION
SW¼ SE¼	700	IR ID	5.000	11	HARDING, DONALD W
SW¼ SE¼	800	IR ID	1.000	11	LINDQUIST, ROBERT A
SW¼ SE¼	801	IR ID	1.000	11	VAUGHN, JACK
SE¼ SE¼	200	IR ID	2.500	11	GALVEZ, CAPT RICHARD
SE¼ SE¼	400	IR ID	1.500	11	RIAHI, JAMES H
SE¼ SE¼	401	IR	3.500	11	BRAXLING, RICHARD W
				Section 30	
> TT1 / > TT1 /	400		15 100		IOIDIGON IOIDIN
NE¼ NE¼	100	IR	17.400	11	JOHNSON, JOHN V
NW¼ NE¼	200	IR	9.000	11	ZIERLEIN, LEONARD
NW¼ NE¼	300	IR IR	8.000	11	DEAN, DAVID J
NW¼ NE¼	400	IR	14.000	11	DILLING, ERIK R
NW¼ NE¼	500	IR	3.000	11	CAMPBELL, C DONALD, JR
SW1/4 NE1/4	1000	IR	0.600	11	ABBAS, TOM D
SW1/4 NE1/4	1200	IR	0.600	11	FOWLKES, ROGER R
SW1/4 NE1/4	1300	IR	0.600	11	MCMAHON, DANIEL W
SW1/4 NE1/4	1400	IR	0.600	11	MILLS, KAREN
SW¼ NE¼	1500	IR	0.600	11	SCHLOSSER, DOROTHY
SW¼ NE¼	1600	IR	0.600	11	MILLER, DANIEL F

SW¼ NE¼ 1700	IR 0.60	0 11	THOMPSON, NEIL C
SW1/4 NE1/4 1800	IR 0.60		HANSEN, TIM
SW1/4 NE1/4 1900	IR 0.75		CHILDRESS, KENNETH D
SW1/4 NE1/4 2000	IR 0.75		MICHAEL, BRUCE F
SW¼ NE¼ 2100	IR 0.60		JOHNSON, MARLYS M
SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 2300	IR 0.60		O'BRIEN, JOHN S
SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 3000	IR 0.36		LA CASA MIA HOME OWNERS
SW¼ NE¼ 800	IR 0.60		ALLEN, ARTHUR L
	IR 0.60		
			LEE, DON W JR
SE¼ NE¼ 700	IR 28.60		JOHNSON, JOHN V
SW¼ NW¼ 2100	IR 16.00		BETTESWORTH, JAY
NW¼ SW¼ 1400	IR 1.50		DEMARIS, ALBERT J JR
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1500	IR 2.80		DEMARIS, ALBERT J SR
NW¼ SW¼ 600	IR 1.30		PLATT, GILBERT
NW¼ SW¼ 700	IR 2.70		PLATT, GILBERT
SW¼ SW¼ 1000	IR 1.00	0 11	DRASBEK, RAYMOND
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 800	IR 0.60	0 11	HANF, JOHN C
SW¼ SW¼ 900	IR 1.40	0 11	HANF, JOHN C
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1000	IR 0.60	0 11	LOGAN, CHARLES
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1100	IR 0.60	0 11	COHEN, SHELDON E
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1200	IR 0.60		SCHLEY, CATHRINA
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1300	IR 0.60		ROUSKA, LESLIE A
NW¼ SE¼ 1400	IR 0.60		DUNCOMBE, LANA L
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1500	IR 0.60		HAYDEN, ERIC B
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1600	IR 0.60		PRAZAK, STEVEN J
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1700	IR 0.60		LOHNER, JAY R
	IR 0.60		NUTTER, JOSEPH
NW¼ SE¼ 1800	IR 0.40		SCROGGINS, DOYLE B
NW¼ SE¼ 1900			•
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 300	IR 0.75		PARLIN, TOM
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 3000	IR 1.64		LA CASA MIA HOME OWNERS
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 400	IR 0.75		COOK, AUDREY K
$NW^{1/4}SE^{1/4}$ 500	IR 0.60		LOUGHTON, ANTHONY W
$NW^{1/4}SE^{1/4}$ 600	IR 0.60		MAXEY, CYLDE E
$NW\frac{1}{4}SE\frac{1}{4}$ 700	IR 0.60		DEASON, MARY
NW¼ SE¼ 800	IR 0.60		ERTNER, DOUGLAS L
NW¼ SE¼ 900	IR 0.60		VAN CLEAVE, PAUL M ET AL
SW1/4 SE1/4 3401	IR 4.50	0 11	WILLIAMS, DANIEL F
SW¼ SE¼ 3402	IR 8.00	0 11	BAUMGARTNER, MICHAEL
SW1/4 SE1/4 3403	IR 9.00	0 11	SMALLING, KEVIN
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 3401	IR 3.50	0 11	WILLIAMS, DANIEL F
SE¼ SE¼ 3500	IR 6.00	0 11	HARRIS, C E
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 3700	IR 5.00	0 11	HARRIS, C E
		Section 31	
NE¼ NE¼ 100	IR 4.40		WOOD, KAREN
NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200	IR 9.60	0 11	WOOD, KAREN
NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 300	IR 1.00	0 11	ADAMS, HUGH
NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 400	IR 2.00	0 11	IUS, DINO A
NW1/4 NE1/4 500	IR 31.20	0 11	TANNER, EARL
SE¼ NE¼ 1701	IR 2.00	0 11	FISHER, MIKE
NE¼ NW¼ 100	IR 20.80	0 11	TANNER, EARL
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 101	IR 13.00		CLARK, CHARLES
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 200	IR 4.00		HELLBUSCH, BETTY L
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 300	IR 12.00		BAILEY, CLARENCE W
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 400	IR 13.40		ALEXANDER, R DOUGLAS
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 500	IR 2.00		BUCKINGHAM, BRIAN S
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 701	IR 7.30		MEYER, CLYDE N
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 702	IR 12.60		MEYER, CLYDE N
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 703	IR 12.00 IR 5.10		MEYER, CLYDE N
	IR 3.10		JOHNSON, A J
SE¼ NW¼ 603	10.90	11	JOHNSON, A J

SE¼ NW¼ 603	PND	0.100	11	JOHNSON, A J
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 605	IR	9.000	11	WALTERS, TIMOTHY J
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 606	IR	7.000	11	SILVA, ANDREW P ET AL
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 607	IR	4.500	11	VALLIE, DAVE
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 608	IR	3.500	11	VALLIE, DAVE
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 600	IR	2.000	11	HENDRICKS, DANIEL G
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 601	IR	7.000	11	JENNINGS, MICHELLE E
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 602	IR	8.000	11	PETERSON, STANLEY
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 604	IR	6.000	11	BACCHUS, RANDY J &
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 700	IR	12.000	11	PRICE, CHRISTOPHER D
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 800	IR	10.000	11	AULIE, ALAN L
SW¼ SW¼ 1100	IR	17.500	11	B BAR B CATTLE COMPANY
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 900	IR	1.500	11	VAN TASSELL, GLEN
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 901	IR	8.000	11	AULIE, VERE
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 903	IR	4.000	11	HAYES, RAYMOND
SE¼ SW¼ 1000	IR	2.000	11	KEMPER, ROBERT L
SE¼ SW¼ 1100	IR	4.500	11	B BAR B CATTLE COMPANY
SE¼ SW¼ 1200	IR	15.600	11	LEGG, P A
SE¼ SW¼ 900	IR	0.500	11	VAN TASSELL, GLEN
SE¼ SW¼ 903	IR	1.000	11	HAYES, RAYMOND
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 100	IR	1.750	11	MURDERS, CARROLL
NW¼ SE¼ 100	IR	0.250	11	MURDERS, CARROLL
SW¼ SE¼ 1600	IR	29.000	11	DONAHOE, DERICK
SE¼ SE¼ 1500	IR	8.000	11	HOLLANDER, LEWIS E JR
SE¼ SE¼ 1501	IR	2.000	11	HOLLANDER, LEWIS E JR
			Section 32	
2771/2771/ 400		2 (00		DENTIFE DIG
NE¼ NE¼ 100	IR	3.600	11	BEN-LEE, INC.
NE¼ NE¼ 201	IR IR	11.700	11	TAYLOR, LEATA
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200	IR ID	2.000	11	ENGLISH, FAYE
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 202	IR ID	3.000	11	AMBURN, ALLEN C
SE¼ NE¼ 203	IR ID	2.000	11	HARTMAN, TED C
SE¼ NE¼ 300	IR ID	1.000	11	DEAN, RUTH
SE¼ NE¼ 301	IR ID	4.500	11	THORNBURGH, AMBERS J
NW¼ NW¼ 2700	IR ID	11.000	11	MORRISON, JERRY L
SW1/4 NW1/4 2800	IR IB	5.000	11	PORTER, RON E
SW1/4 NW1/4 2900	IR ID	5.000	11	GIVENS, JOYCE S
SW¼ NW¼ 3100	IR ID	8.000	11	ZITEK, KEN
NE¼ SW¼ 1002	IR ID	1.900	11	ELLIOTT TRUSTS
NW¼ SW¼ 1000 SW¼ SW¼ 1003	IR IR	19.000	11	ELLIOTT, RAYMOND
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1001	IR IR	2.950 1.500	11	ELLIOTT, RAYMOND
SE'4 SW'4 1001 SE'4 SW'4 1002	IR IR	13.900	11 11	WILSON, ROBERT A ELLIOTT TRUSTS
SE'4 SW'4 1002 SE'4 SW'4 1003	IR	10.800	11	
SE¼ SW¼ 11003	IR	5.000	11	ELLIOTT, RAYMOND
NE¼ SE¼ 1600	IR IR	1.500	11	COFFMAN, DONALD R MURRAY, DAVID H
NE'4 SE'4 1801	IR IR	4.100	11	DEAN, PAT C
NE'4 SE'4 1901	IR	0.300	11	DEAN, PAT C
NE'4 SE'4 1902	IR	1.000	11	· ·
NE'4 SE'4 2001	IR IR	1.000	11	WILSON, GERALD-DUNGAN, PHILLIP MILER, ELMER F
NE' <sub>4</sub> SE' <sub>4</sub> 2200	IR	1.000	11	DEWAELE, JAN D
NE'4 SE'4 2300	IR IR	2.700	11	BULTER, RICHARD L
NE'4 SE'4 2500 NE'4 SE'4 2500	IR IR	11.000	11	SMITH, MORGAN
NW¼ SE¼ 1500	IR IR	8.000	11	DETZEL, GORDON
NW¼ SE¼ 1600	IR	1.500	11	MURRAY, DAVID H
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1800	IR	7.600	11	HERSHEY & STAFFORD
NW¼ SE¼ 1801	IR	1.100	11	DEAN, PAT C
NW¼ SE¼ 1804	IR	5.100	11	PHILLIPS, DON W
SW¼ SE¼ 1800	IR	32.450	11	HERSHEY & STAFFORD
SE' <sub>4</sub> SE' <sub>4</sub> 1800				
0L/40L/4 1000	IR	7.000	11	HERSHEY & STAFFORD

SE1/4 SE1/4	2600	IR	25.000	11	MORGAN, GERTRUDE J
				Section 33	,
NEL CARRE	100				
NE¼ NE¼	100	IR IB	32.500	11	BURK, BILL
NW¼ NE¼ NW¼ NE¼	200 205	IR IR	6.100 13.200	11 11	FERGUSON, JAMES L
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	203	IR	3.100	11	FERGUSON, JAMES L BURK, BILL
SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	201	IR	0.700	11	BURK, CURTIS
SW1/4 NE1/4	203	IR	0.700	11	DENISON, ROGER W
SW1/4 NE1/4	204	IR	1.000	11	LEHNERTZ, DONALD
SW1/4 NE1/4	206	IR	2.300	11	DENISON, ROGER W
SW1/4 NE1/4	208	IR	16.900	11	BURK, BILL
SE¼ NE¼	100	IR	30.500	11	BURK, BILL
NE¼ NW¼	202	IR	4.700	11	HIGSON, RICHARD K
NE¼ NW¼	202	PND	0.300	11	HIGSON, RICHARD K
NE¼ NW¼	207	IR	4.000	11	OLSEN, KENNETH
NE¼ NW¼	209	IR	5.670	11	GOOLD, PHILLIP
NE¼ NW¼	210	IR IR	5.000	11	GOOLD, PHILLIP
NE¼ NW¼	211	IR ID	5.000	11	GOOLD, PHILLIP
NW1/4 NW1/4		IR ID	19.600	11	BEN-LEE, INC.
NW¼ NW¼		IR IB	1.900	11	CENTRAL ELECTRIC CO-OP
SW1/4 NW1/4	400 600	IR IR	20.000 16.000	11	THOST, WILLIAM E SR
SE¼ NW¼ SE¼ NW¼	600 700	IR IR	2.000	11 11	BOEHLKE, GLEN
SE14 NW14	700 701	IR	5.000	11	ENNES, JOSEPH WHITE, EUGENE
SE14 NW14	701	IR IR	3.000	11	SMITH, RONALD G
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	801	IR	16.000	11	STEVENSON, STANLEY
NE¼ SW¼	802	IR	8.750	11	ALEXANDRE, YVONNE C
NE¼ SW¼	803	IR	4.250	11	NEASHAM, JOHN W
NW¼ SW¼		IR	21.300	11	BLAKELY, R T
NW1/4 SW1/4		IR	2.000	11	MULLANEY, COLLEEN M
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1201	IR	2.000	11	MILLER, CARLOS J
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1202	IR	3.000	11	STARR, WASSA L
SW1/4 SW1/4	1300	IR	4.000	11	ANDERSON, ROBERT A
SW¼ SW¼	1400	IR	4.000	11	DURAN, CATHY
SW1/4 SW1/4		IR	8.700	11	SCHMIDT, DEBORAH RAE
SW1/4 SW1/4		IR	2.000	11	HAYNES, BRADLEY N
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	1.000	11	HAYNES, BRADLEY N
	1602	IR	4.700	11	OWEN, JACK D
SW1/4 SW1/4		IR	1.000	11	ROBINSON, SIDNEY L
SW1/4 SW1/4		IR ID	2.800	11	HART, DAVID L
SW1/4 SW1/4		IR ID	4.010	11	BARNHART, CHARLES
SE¼ SW¼ SE¼ SW¼	1800 1801	IR IR	5.700 32.590	11 11	HART, DAVID L
SE¼ SW¼ NE¼ SE¼	2002	IR IR	5.500	11	BARNHART, CHARLES MOERSCHELL, PHILIP H
NE¼ SE¼ NE¼ SE¼	2002	IR IR	1.700	11	KEATHLEY, SCOTT
NE <sup>1</sup> 4 SE <sup>1</sup> 4	2004	IR	4.290	11	DIXON, KENNETH E
NE¼ SE¼	2003	IR	8.000	11	SHOEMAKER, DARVEN
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	2009	IR	6.460	11	MARLER, SHARI
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1900	IR	28.700	1.1	BLAKELY, R T
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1901	IR	1.000	11	CHERIE REMA ROBERTS LIVING TRST
NW¼ SE¼	1905	IR	2.500	11	ROBINSON, GARY
SW1/4 SE1/4	2004	IR	2.050	11	KEATHLEY, SCOTT
SW1/4 SE1/4	2006	IR	7.800	11	HAWKS FAMILY TRUST
SW1/4 SE1/4	2007	IR	5.500	11	BLUNT, JOHN C
SW1/4 SE1/4	2010	IR	4.560	11	BROWN, PARTICK
SE1/4 SE1/4	2001	IR	8.860	11	DAVIS, JAMES A
SE1/4 SE1/4	2003	IR	7.600	11	FISHER, CHERYL L
SE¼ SE¼	2004	IR	5.500	11	KEATHLEY, SCOTT
SE1/4 SE1/4	2012	IR	8.000	11	THOMPSON, ALFRED R
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Sec	fion	34

3.771/3.771/				
	100 INE	0.200	11	REDMOND TALLOW CO INC
NE¼ NE¼ 1	100 IR	3.300	11	REDMOND TALLOW CO INC
NW¼ NE¼ 12	200 IR	2.900	11	DONOHO, W W
NW¼ NE¼ 13	300 IR	2.600	11	MEREDITH, ESME
NW¼ NE¼ 14	100 IR	2.500	11	GWIN, ARTHUR N
NW¼ NE¼ 15	500 IR	2.100	11	MCATEE, EDGAR L
	600 IR	0.660	11	MCATEE, EDGAR L
	501 IR	2.340	11	THOMPSON, HOWARD R
	700 IR	2.200	11	•
				THOMPSON, HOWARD R
	300 IR	3.000	11	HARTZELL, PHILLIP L
	100 IR	7.500	11	GRIFFITH, SPENCER M
	300 PNI		11	CENTRAL OREGON IRRIGATION
	900 IR	16.300	11	HARTZELL, RICHARD
SW¼ NE¼ 9	901 IR	7.700	11	HARTZELL, RICHARD
NE¼ NW¼ 1	00 IR	3.200	11	LANE, DAVID
NE¼ NW¼ 2	200 IR	3.200	11	HURLOCKER, SANFORD L &
NE¼ NW¼ 3	300 IR	3.200	11	GUTHRIE, DENNIS G
NE¼ NW¼ 4	100 IR	3.100	11	BATES, DAVID B
	500 IR	4.100	11	HUDDLE, KENNETH
	500 IR	4.200	11	HUDDLE, KENNETH
	700 IR	4.200	11	•
				JOHNSON, ROBERT O JR
	800 IR	3.200	11	STEPHENS, GILBERT
	000 IR	4.000	11	HUDDLE, KENNETH L
	001 IR	10.500	11	HAYES, GEORGE M
	902 IR	5.500	11	STILWELL, LISA D
SW¼ NW¼ 10	000 IR	35.900	11	HUDDLE, MRS KENNETH W
SE¼ NW¼ 10	000 IR	34.100	11	HUDDLE, MRS KENNETH W
NE¼ SW¼ 10	000 IR	0.300	11	HOFFMAN, CHARLES O
NE¼ SW¼ 11	.00 IR	0.900	11	CHETWOOD, SAMUEL
NE¼ SW¼ 12	200 IR	1.200	11	MEANS, JIMMIE
	300 IR	2.000	11	WAGNER, CATHERINE L
	100 IR	2.200	11	KELLER, TOMMY A
	500 IR	2.500	11	HAYDEN, JAMES L
	00 IR	4.300	11	HOLIWAY, MARK S
NW¼ SW¼ 10		2.300		HOFFMAN, CHARLES O
			11	,
NW¼ SW¼ 11		1.400	11	CHETWOOD, SAMUEL
NW¼ SW¼ 12		1.000	11	MEANS, JIMMIE
NW¼ SW¼ 13		0.200	11	WAGNER, CATHERINE L
	200 IR	4.300	11	ESPINOLA, WARREN A
	300 IR	4.100	11	JARVIS, HAROLD L
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 4	100 IR	4.100	11	DALY, MICHAEL M
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 5	500 IR	4.000	11	BROWN, DIXIE L
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 6	500 IR	4.200	11	MEANS, GLEN
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 7	700 IR	1.600	11	HAYES, SHERI L
NW¼ SW¼ 8	800 IR	0.600	11	LAKE PARK ESTATES PROPERTY
	900 IR	1.900	11	ANDERSON, MICHAEL C
	700 IR	2.000	11	HAYES, SHERI L
	800 IR	1.500	11	LAKE PARK ESTATES PROPERTY
	900 IR	0.500	11	
3 W 74 3 W 74 9	OU IK	0.300		ANDERSON, MICHAEL C
		T 1: 14	Section 35	2 D . W.M.
		1 ownship 14	South, Range 13	5 East, W.M.
	00 IR	6.900	11	CIRCLE F RANCHES INC
	00 IR	25.100	11	CIRCLE F RANCHES INC
SW1/4 SW1/4 2	200 IR	1.000	11	BROOKS, GRETCHEN ET AL
SW1/4 SW1/4 3	300 IR	1.000	11	WYNN, DENNIS P
			Section 17	

SW1/4 NE1/4	503	IR	33.100	11	RE-GRET, INC
SE1/4 NE1/4	503	IR	16.800	11	RE-GRET, INC
SW1/4 NW1/4	301	IR	32.200	11	RE-GRET, INC
SE1/4 NW1/4	301	IR	33.000	11	RE-GRET, INC
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	503	IR	33.300	11	RE-GRET, INC
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	301	IR	2.100		•
				11	RE-GRET, INC
SW1/4 SW1/4	400	IR IR	18.710	11	MCGINTY, ED
SW1/4 SW1/4	401	IR	6.000	11	WARNER, EDWARD
SE1/4 SW1/4	504	IR	16.000	11	LONE PINE,LLC
NE¼ SE¼	503	IR	31.700	11	RE-GRET, INC
NW¼ SE¼	503	IR	24.600	11	RE-GRET, INC
SW1/4 SE1/4	500	IR	5.400	11	BROOKS, GRETCHEN ET AL
SW1/4 SE1/4	504	IR	31.100	11	LONE PINE,LLC
SE1/4 SE1/4	500	IR	28.600	11	BROOKS, GRETCHEN ET AL
SE1/4 SE1/4	502	IR	2.000	11	BROOKS, GRETCHEN ET AL
5274 5274	502	110	2.000	Section 18	BROOKS, GRETCHEN ET AE
				Section 18	
NE1/4 NE1/4	101	IR	3.200	11	WATSON, R W
NE¼ NE¼	102	IR	9.100	11	ALTIMORE, GREGORY L
NE¼ NE¼	103	IR			•
			8.000	11	FEARRIEN, DONALD N
NE¼ NE¼	104	IR	2.500	11	ROSS, EDNA M
NE¼ NE¼	106	IR	5.000	11	FEARRIEN, DONALD N
NE¼ NE¼	107	IR	5.000	11	FEARRIEN, DONALD N
NW¼ NE¼	100	IR	31.000	11	ALVES, ERVIN D
SW¼ NE¼	300	IR	35.200	11	KASBERGER, MARQUERITE B
SE¼ NE¼	300	IR	27.200	11	KASBERGER, MARQUERITE B
NE1/4 NW1/4	201	IR	4.000	11	STITES, MARLYS M
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	202	IR	10.190	11	SKIDGEL, CHRIS J
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	202	IR	24.100	11	SKIDGEL, CHRIS J
SW1/4 NW1/4	300	IR	14.300	11	KASBERGER, MARQUERITE B
SE <sup>1</sup> /4 NW <sup>1</sup> /4	300	IR	28.100	11	KASBERGER, MARQUERITE B
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	300	IR	30.400		
				11	KASBERGER, MARQUERITE B
NE¼ SW¼	302	IR	1.300	11	TEGA 3 INC.
NW1/4 SW1/4	300	IR	12.700	11	KASBERGER, MARQUERITE B
SE1/4 SW1/4	302	IR	26.800	11	TEGA 3 INC.
NE¼ SE¼	300	IR	5.700	11	KASBERGER, MARQUERITE B
NW¼ SE¼	300	IR	26.400	11	KASBERGER, MARQUERITE B
SW¼ SE¼	302	IR	13.300	11	TEGA 3 INC.
SW1/4 SE1/4	304	IR	12.400	11	KASBERGER, MARQUERITE B
SE1/4 SE1/4	302	IR	0.400	11	TEGA 3 INC.
SE1/4 SE1/4	304	IR	25.800	11	KASBERGER, MARQUERITE B
				Section 19	, (
NE¼ NW¼	100	IR	4.800	1	BUTLER RANCH
NE1/4 NW1/4	101	IR	0.900	1	BULTER, RICHARD L
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	100	IR	16.300	1	BUTLER RANCH
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	101	IR	14.400	1	BULTER, RICHARD L
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	100	IR	38.600	1	BUTLER RANCH
SE <sup>1</sup> /4 NW <sup>1</sup> /4	100	IR	20.000	1	BUTLER RANCH
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	100	IR	1.200		BUTLER RANCH
				1	
NW¼ SW¼	100	IR	33.300	G 4: 20	BUTLER RANCH
				Section 20	
<b>NIW</b> 71 / <b>NIW</b> 71 /	101	ID	7.400	1	VII DATDIOU ENTERDRICES I TO
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	101	IR IR	7.400	1	KILPATRICK ENTERPRISES LTD
SW1/4 NW1/4	101	IR	28.500	1	KILPATRICK ENTERPRISES LTD
NE1/4 SW1/4	101	IR	3.300	1	KILPATRICK ENTERPRISES LTD
NW¼ SW¼	101	IR	14.500	1	KILPATRICK ENTERPRISES LTD
NW¼ SW¼	101	PND	1.300	1	KILPATRICK ENTERPRISES LTD
SW1/4 SW1/4	101	IR	38.800	1	KILPATRICK ENTERPRISES LTD
SE1/4 SW1/4	101	IR	18.100	1	KILPATRICK ENTERPRISES LTD
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	ection	7.7

NE¼ NE¼	100	IR	11.300	1	KILPATRICK ENTERPRISES LTD
SW1/4 NE1/4	100	IR	30.500	1	KILPATRICK ENTERPRISES LTD
SE1/4 NE1/4	100	IR	39.900	1	KILPATRICK ENTERPRISES LTD
SW1/4 NW1/4	100	IR	0.800	1	KILPATRICK ENTERPRISES LTD
SE1/4 NW1/4	100	IR	20.190	1	KILPATRICK ENTERPRISES LTD
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	100	IR	17.700	1	KILPATRICK ENTERPRISES LTD
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	100	IR	1.700	1	KILPATRICK ENTERPRISES LTD
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	101	IR	8.800	1	KILPATRICK ENTERPRISES LTD
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	100	IR	8.500	1	
	100	IR	22.400	1	KILPATRICK ENTERPRISES LTD
SE¼ SW¼					KILPATRICK ENTERPRISES LTD
NE¼ SE¼	100	IR	19.600	1	KILPATRICK ENTERPRISES LTD
NW¼ SE¼	100	IR	2.900	1	KILPATRICK ENTERPRISES LTD
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	100	IR	28.000	l 1	KILPATRICK ENTERPRISES LTD
SE1/4 SE1/4	100	IR	21.200	1	KILPATRICK ENTERPRISES LTD
				Section 26	
CIVIL ( NITTL (	100	TD	4.000		CENTED AT ORTHOGODER AND A CONTRACT
SW¼ NE¼	100	IR	4.000	1	CENTRAL OREGON IRRIGATION
SE¼ NE¼	100	IR	1.000	1	CENTRAL OREGON IRRIGATION
SE¼ NW¼	100	IR	17.000	1	CENTRAL OREGON IRRIGATION
NE¼ SW¼	100	IR	6.000	1	CENTRAL OREGON IRRIGATION
NW¼ SE¼	100	IR	1.000	1	CENTRAL OREGON IRRIGATION
				Section 27	
NE¼ NE¼	100	IR	10.600	1	TEGA 3 INC.
NE¼ NE¼	101	IR	3.800	1	KASBERGER, MARQUERITE B
NE¼ NE¼	302	IR	19.000	1	TEGA 3 INC.
NW¼ NE¼	302	IR	31.800	1	TEGA 3 INC.
SW1/4 NE1/4	302	IR	10.600	1	TEGA 3 INC.
SE¼ NE¼	302	IR	9.400	1	TEGA 3 INC.
NE¼ NW¼	302	IR	9.800	1	ARNETT, JOHN
NW¼ NW¼	601	IR	3.500	1	RICHARDSON, DUANE E
SW1/4 NW1/4	601	IR	10.500	1	RICHARDSON, DUANE E
	OUL	II.	18.500	1	MCIMOSON, DUANE E
2 , , 1 , .	001	IK	18.500	_	MCHAIDSON, DUANE E
	001	IK	18.500	Section 30	MCHAIDSON, DUANT E
				Section 30	
NE¼ NE¼	100	IR	28.700	Section 30	KILPATRICK ENTERPRISES LTD
NE¼ NE¼ NW¼ NE¼	100 100	IR IR	28.700 31.400	Section 30	KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD
NE¼ NE¼ NW¼ NE¼ SW¼ NE¼	100 100 100	IR IR IR	28.700 31.400 38.200	Section 30  1 1 1	KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD
NE¼ NE¼ NW¼ NE¼ SW¼ NE¼ SE¼ NE¼	100 100 100 100	IR IR IR IR	28.700 31.400 38.200 6.000	Section 30  1 1 1 1	KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD
NE¼ NE¼ NW¼ NE¼ SW¼ NE¼ SE¼ NE¼ NE¼ NW¼	100 100 100 100 100	IR IR IR IR	28.700 31.400 38.200 6.000 34.100	Section 30  1 1 1 1 1 1	KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD
NE¼ NE¼ NW¼ NE¼ SW¼ NE¼ SE¼ NE¼ NE¼ NW¼ NW¼ NW¼	100 100 100 100 100 100	IR IR IR IR IR	28.700 31.400 38.200 6.000 34.100 23.800	Section 30  1 1 1 1 1 1 1	KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD
NE¼ NE¼ NW¼ NE¼ SW¼ NE¼ SE¼ NE¼ NE¼ NW¼ NW¼ NW¼ SW¼ NW¼	100 100 100 100 100 100	IR IR IR IR IR IR	28.700 31.400 38.200 6.000 34.100 23.800 2.400	Section 30  1 1 1 1 1 1 1 1	KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD KILPATRICK ENTERPRISES LTD
NE¼ NE¼ NW¼ NE¼ SW¼ NE¼ SE¼ NE¼ NE¼ NW¼ NW¼ NW¼ SW¼ NW¼ SE¼ NW¼	100 100 100 100 100 100 100	IR IR IR IR IR IR IR	28.700 31.400 38.200 6.000 34.100 23.800 2.400 30.700	Section 30  1 1 1 1 1 1 1 1 1 1	KILPATRICK ENTERPRISES LTD
NE¼ NE¼ NW¼ NE¼ SW¼ NE¼ SE¼ NE¼ NE¼ NW¼ NW¼ NW¼ SW¼ NW¼ SE¼ NW¼ NE¼ SW¼	100 100 100 100 100 100 100 100	IR IR IR IR IR IR IR	28.700 31.400 38.200 6.000 34.100 23.800 2.400 30.700 32.500	Section 30  1 1 1 1 1 1 1 1 1 1 1	KILPATRICK ENTERPRISES LTD
NE¼ NE¼ NW¼ NE¼ SW¼ NE¼ SE¼ NE¼ NE¼ NW¼ NW¼ NW¼ SW¼ NW¼ SE¼ NW¼ NE¼ SW¼ NW¼ SW¼	100 100 100 100 100 100 100 101 101	IR	28.700 31.400 38.200 6.000 34.100 23.800 2.400 30.700 32.500 8.400	Section 30  1 1 1 1 1 1 1 1 1 1 1 1 1	KILPATRICK ENTERPRISES LTD
NE¼ NE¼ NW¼ NE¼ SW¼ NE¼ SE¼ NE¼ NE¼ NW¼ NW¼ NW¼ SW¼ NW¼ SE¼ NW¼ NE¼ SW¼ NW¼ SW¼ NW¼ SW¼	100 100 100 100 100 100 100 101 101	IR	28.700 31.400 38.200 6.000 34.100 23.800 2.400 30.700 32.500 8.400 23.200	Section 30  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KILPATRICK ENTERPRISES LTD
NE¼ NE¼ NW¼ NE¼ SW¼ NE¼ SE¼ NE¼ NE¼ NW¼ NW¼ NW¼ SW¼ NW¼ SE¼ NW¼ NE¼ SW¼ NW¼ SW¼ SE¼ SW¼ SW¼ SW¼	100 100 100 100 100 100 100 101 101 101	IR	28.700 31.400 38.200 6.000 34.100 23.800 2.400 30.700 32.500 8.400 23.200 10.100	Section 30  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KILPATRICK ENTERPRISES LTD
NE'4 NE'4 NW'4 NE'4 SW'4 NE'4 SE'4 NE'4 NE'4 NW'4 NW'4 NW'4 SW'4 NW'4 SE'4 NW'4 NE'4 SW'4 NW'4 SW'4 SW'4 SW'4 SE'4 SW'4 NE'4 SE'4	100 100 100 100 100 100 100 101 101 101	IR	28.700 31.400 38.200 6.000 34.100 23.800 2.400 30.700 32.500 8.400 23.200 10.100 28.500	Section 30  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KILPATRICK ENTERPRISES LTD
NE¼ NE¼ NW¼ NE¼ SW¼ NE¼ SE¼ NE¼ NE¼ NW¼ NW¼ NW¼ SE¼ NW¼ SE¼ SW¼ NE¼ SW¼ SW¼ SW¼ SE¼ SW¼ SE¼ SW¼ NE¼ SE¼ SW¼ NE¼ SE¼ SW¼	100 100 100 100 100 100 100 101 101 101	IR IR IR IR IR IR IR IR IR IR IR	28.700 31.400 38.200 6.000 34.100 23.800 2.400 30.700 32.500 8.400 23.200 10.100 28.500 30.600	Section 30  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KILPATRICK ENTERPRISES LTD
NE¼ NE¼ NW¼ NE¼ SW¼ NE¼ SE¼ NE¼ NE¼ NW¼ NW¼ NW¼ SW¼ NW¼ SE¼ SW¼ NW¼ SW¼ SE¼ SW¼ NW¼ SW¼ SE¼ SW¼ NE¼ SE¼ NW¼ SE¼ NW¼ SE¼	100 100 100 100 100 100 100 101 101 101	IR IR IR IR IR IR IR IR IR IR IR IR	28.700 31.400 38.200 6.000 34.100 23.800 2.400 30.700 32.500 8.400 23.200 10.100 28.500 30.600 20.200	Section 30  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KILPATRICK ENTERPRISES LTD
NE¼ NE¼ NW¼ NE¼ SW¼ NE¼ SE¼ NE¼ NE¼ NW¼ NW¼ NW¼ SE¼ NW¼ SE¼ SW¼ NE¼ SW¼ SW¼ SW¼ SE¼ SW¼ SE¼ SW¼ NE¼ SE¼ SW¼ NE¼ SE¼ SW¼	100 100 100 100 100 100 100 101 101 101	IR IR IR IR IR IR IR IR IR IR IR	28.700 31.400 38.200 6.000 34.100 23.800 2.400 30.700 32.500 8.400 23.200 10.100 28.500 30.600	Section 30  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KILPATRICK ENTERPRISES LTD
NE¼ NE¼ NW¼ NE¼ SW¼ NE¼ SE¼ NE¼ NE¼ NW¼ NW¼ NW¼ SW¼ NW¼ SE¼ SW¼ NW¼ SW¼ SE¼ SW¼ NW¼ SW¼ SE¼ SW¼ NE¼ SE¼ NW¼ SE¼ NW¼ SE¼	100 100 100 100 100 100 100 101 101 101	IR IR IR IR IR IR IR IR IR IR IR IR	28.700 31.400 38.200 6.000 34.100 23.800 2.400 30.700 32.500 8.400 23.200 10.100 28.500 30.600 20.200	Section 30  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KILPATRICK ENTERPRISES LTD
NE¼ NE¼ NW¼ NE¼ SW¼ NE¼ SE¼ NE¼ NE¼ NW¼ NW¼ NW¼ SE¼ NW¼ NE¼ SW¼ NE¼ SW¼ NE¼ SW¼ SE¼ SW¼ SE¼ SW¼ SE¼ SE¼ SE¼ SE¼ SE¼ SE¼	100 100 100 100 100 100 101 101 101 101	IR I	28.700 31.400 38.200 6.000 34.100 23.800 2.400 30.700 32.500 8.400 23.200 10.100 28.500 30.600 20.200 16.400	Section 30  1 1 1 1 1 1 1 1 1 1 1 1 1 1 Section 35	KILPATRICK ENTERPRISES LTD
NE'4 NE'4 NW'4 NE'4 SW'4 NE'4 SE'4 NE'4 NE'4 NW'4 NW'4 NW'4 SW'4 NW'4 NE'4 SW'4 NW'4 SW'4 SE'4 SW'4 NE'4 SE'4 NW'4 SE'4 SW'4 SE'4 SW'4 SE'4 SW'4 SE'4 SW'4 NE'4	100 100 100 100 100 100 101 101 101 101	IR I	28.700 31.400 38.200 6.000 34.100 23.800 2.400 30.700 32.500 8.400 23.200 10.100 28.500 30.600 20.200 16.400	Section 30  1 1 1 1 1 1 1 1 1 1 1 1 1 1 Section 35	KILPATRICK ENTERPRISES LTD
NE¼ NE¼ NW¼ NE¼ SW¼ NE¼ SE¼ NE¼ NE¼ NW¼ NW¼ NW¼ SE¼ NW¼ NE¼ SW¼ NW¼ SW¼ NW¼ SW¼ SE¼ SW¼ NW¼ SE¼	100 100 100 100 100 100 101 101 101 101	IR I	28.700 31.400 38.200 6.000 34.100 23.800 2.400 30.700 32.500 8.400 23.200 10.100 28.500 30.600 20.200 16.400  3.600 14.700	Section 30  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KILPATRICK ENTERPRISES LTD CENTRAL CASCADE CORP. CENTRAL CASCADE CORP.
NE'4 NE'4 NW'4 NE'4 SW'4 NE'4 SE'4 NE'4 NE'4 NW'4 NW'4 NW'4 SW'4 NW'4 NE'4 SW'4 NW'4 SW'4 SE'4 SW'4 NE'4 SE'4 NW'4 SE'4 SW'4 SE'4 SW'4 SE'4 SW'4 NE'4 SE'4 SE'4 NW'4 NE'4 SE'4 NE'4 NW'4 NE'4 NW'4 NW'4	100 100 100 100 100 100 101 101 101 101	IR I	28.700 31.400 38.200 6.000 34.100 23.800 2.400 30.700 32.500 8.400 23.200 10.100 28.500 30.600 20.200 16.400  3.600 14.700 10.920	Section 30  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KILPATRICK ENTERPRISES LTD
NE'4 NE'4 NW'4 NE'4 SW'4 NE'4 SE'4 NE'4 NE'4 NW'4 NW'4 NW'4 SW'4 NW'4 NE'4 SW'4 NW'4 SW'4 SE'4 SW'4 NE'4 SE'4 NW'4 SE'4 SW'4 SE'4 SW'4 SE'4 SW'4 NE'4 SE'4 NE'4 SE'4 NE'4 NW'4 NW'4 NW'4 NW'4 NW'4 NW'4	100 100 100 100 100 100 101 101 101 101	IR I	28.700 31.400 38.200 6.000 34.100 23.800 2.400 30.700 32.500 8.400 23.200 10.100 28.500 30.600 20.200 16.400  3.600 14.700 10.920 10.000	Section 30  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KILPATRICK ENTERPRISES LTD CENTRAL CASCADE CORP. CENTRAL CASCADE CORP. KILPATRICK ENTERPRISES LTD MORGAN, CHARLES
NE'4 NE'4 NW'4 NE'4 SW'4 NE'4 SE'4 NE'4 NE'4 NW'4 NW'4 NW'4 SW'4 NW'4 SE'4 SW'4 NW'4 SW'4 SE'4 SW'4 NW'4 SE'4 SW'4 SE'4 SW'4 SE'4 SE'4 SE'4 SE'4 SE'4 SE'4 NE'4 SW'4 NW'4 SE'4 NW'4 SE'4 NW'4 SE'4 NW'4	100 100 100 100 100 100 101 101 101 101	IR I	28.700 31.400 38.200 6.000 34.100 23.800 2.400 30.700 32.500 8.400 23.200 10.100 28.500 30.600 20.200 16.400  3.600 14.700 10.920 10.000 2.600	Section 30  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KILPATRICK ENTERPRISES LTD MORGAN, CHARLES MORGAN, CHARLES
NE'4 NE'4 NW'4 NE'4 SW'4 NE'4 SE'4 NE'4 NE'4 NW'4 NW'4 NW'4 SW'4 NW'4 NE'4 SW'4 NW'4 SW'4 SE'4 SW'4 NE'4 SE'4 NW'4 SE'4 SW'4 SE'4 SW'4 SE'4 SW'4 NE'4 SE'4 NE'4 SE'4 NE'4 NW'4 NW'4 NW'4 NW'4 NW'4 NW'4	100 100 100 100 100 100 101 101 101 101	IR I	28.700 31.400 38.200 6.000 34.100 23.800 2.400 30.700 32.500 8.400 23.200 10.100 28.500 30.600 20.200 16.400  3.600 14.700 10.920 10.000	Section 30  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KILPATRICK ENTERPRISES LTD CENTRAL CASCADE CORP. CENTRAL CASCADE CORP. KILPATRICK ENTERPRISES LTD MORGAN, CHARLES

NW¼ SW¼	201	IR	26.700	1	MORGAN, CHARLES
SW1/4 SW1/4	201	IR	38.700	î	MORGAN, CHARLES
SE1/4 SW1/4	201	IR	39.200	1	MORGAN, CHARLES
NE¼ SE¼	201	IR	0.900	1	MORGAN, CHARLES
NE1/4 SE1/4	202	IR	25.000	1	CENTRAL CASCADE CORP.
NW1/4 SE1/4	201	IR	3.600	1	MORGAN, CHARLES
NW1/4 SE1/4	202	IR	9.000	i i	CENTRAL CASCADE CORP.
SW1/4 SE1/4	201	IR	29.500	1	MORGAN, CHARLES
SE1/4 SE1/4	201	IR	23.700	1	MORGAN, CHARLES
				Section 36	money, our number
			Township 14	South, Range 1	4 East, W.M.
			•	, ,	,
SW1/4 SW1/4	201	IR	27.300	1	MORGAN, CHARLES
SE¼ SW¼	201	IR	23.500	1	MORGAN, CHARLES
SW1/4 SE1/4	100	IR	5.700	1	PETERSON, DAVID L
SW1/4 SE1/4	101	IR	2.100	1	HANNA, GLENN
SW1/4 SE1/4	102	IR	7.200	1	HANNA, GLENN
SE¼ SE¼	100	IR	2.200	1	PETERSON, DAVID L
SE1/4 SE1/4	102	IR	10.700	1	HANNA, GLENN
				Section 31	
SW¼ SE¼	1800	IR	1.400	1	MCNABB, E L
SE¼ SE¼	1700	IR	3.000	1	MCNABB, E L
				Section 32	
			Township 14	South, Range 1	5 East, W.M.
ATT 11 / ATT /	1000		4.000		
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1000	IR	1.300	11	MILLS, HAROLD
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1100	IR	0.800	11	RASH, LYLE H
SW¼ SE¼	1200	IR	0.250	11	PAYTON, ALBERT
SW¼ SE¼	1500	IR	0.300	11	HIX, LAWRENCE J
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1600	IR	1.000	11	WILLIAMS, GARY
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1600	PND	0.400	11	WILLIAMS, GARY
SW¼ SE¼	1700	IR	1.000	11	COCKELREAS, JOANNE
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1701	IR	0.400	11	COCKELREAS, JOANNE
SW¼ SE¼	1800	IR	0.400	11	COCKELREAS, JOANNE
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1900	IR	2.500	11	ROBERTS, THEODORE H
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	2000	IR	3.300	11	JOHNSON, RUSSELL
SE¼ SE¼	100	IR	2.000	11	FISHER, MELVIN
SE¼ SE¼	200	IR	2.000	11	SARGENT, DONALD L
SE¼ SE¼	2100	IR	2.190	11	BRYANT, DAVID H
SE¼ SE¼	2200	IR	2.190	11	DINGMAN, DANIEL A
SE¼ SE¼	2300	IR	2.190	11	POFFENBARGER, JACK A
SE¼ SE¼	2400	IR	2.190	11	KRUTSCH, ANTHONY
SE¼ SE¼	2500	IR ID	2.000	11	EDWARDS, ROY
SE¼ SE¼	2600	IR ID	2.190	11	WHITEHOUSE, JAMES W
SE¼ SE¼	2700	IR ID	2.000	11	WRIGHT, SHERMAN D
SE¼ SE¼	2800	IR	1.500	11	BLANKENSHIP, GARY M
SE¼ SE¼	300	IR ID	2.190	11	STRUCK, CHRISTOPHER
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	400	IR ID	1.000	11	FISHER, MELVIN
SE¼ SE¼	500	IR ID	2.190	11	CASTLE, WAYNE R
SE¼ SE¼	600	IR ID	2.190	11	MILLS, HAROLD
SE¼ SE¼	700	IR ID	2.000	11	LONG, JOHN E & PHYLIIS A
SE¼ SE¼	800	IR	2.000	11 Section 1	CLOSE, DALE F
				Section 1	
SE¼ SE¼	1500	IR	2.000	11	BARTON, JOHN W
SE14 SE14 SE14 SE14	1600	IR	2.000	11	KUPER, JOHN
SE1/4 SE1/4 SE1/4 SE1/4	1700	IR	2.000	11	SULT, STEVEN V
SE14 SE14 SE14 SE14	1800	IR	2.000	11	LOWE, WARD A
OL/4 OL/4	1000	117	2.000	Section 11	LOUL, HARDA
ID2111 bank				0 05 of 105	

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NE¼ NE¼	4700	IR	14.000	11	NANCE, ALBERT
NW1/4 NE1/4	100	IR	2.000	11	FULLMAN, HAROLD
NW1/4 NE1/4	1300	IR	2.000	11	BLAKLEY, DANIEL R
NW1/4 NE1/4	1400	IR	2.000	11	ALLEN, GARY O
NW1/4 NE1/4	1500	IR	2.000	11	ALEXANDER, CATHERINE L
NW¼ NE¼	1600	IR	1.000	11	SIMMONS, RANDALL K
NW¼ NE¼	1601	IR	1.000	11	
NW¼ NE¼	1700	IR	2.000		RITCHEY, JAMES A
NW14 NE14	1800	IR		11	BOSCHMA, HENRY F
			1.500	11	DAVIDSON, DON G &
NW¼ NE¼	1900	IR	0.700	11	HAWKINS, N
NW¼ NE¼	200	IR	1.600	11	FULLMAN, HAROLD
NW1/4 NE1/4	2000	IR	2.000	11	PARROTT, DICK
NW1/4 NE1/4		IR	4.000	11	STONE, MAURICE
NW1/4 NE1/4	2601	IR	0.500	11	SMITH, DEAN
NW¼ NE¼	2700	IR	3.000	11	POPISH, LOUIS
NW¼ NE¼	2801	IR	0.300	11	GOULD, RICHARD &
NW¼ NE¼	2802	IR	0.300	11	SMITH, DEAN
NW¼ NE¼	2900	IR	1.200	11	ROBINSON, KENNETH L ET AL
NW¼ NE¼	300	IR	2.000	11	ALLEN, JERRY H
NW1/4 NE1/4	400	IR	2.000	11	SANDIFORD, WILLIAM
SW¼ NE¼	1100	IR	1.500	11	BJERKE, CHRIS N
SW¼ NE¼	1200	IR	1.200	11	BARNES, KENT C
SW¼ NE¼	2100	IR	2.000	11	CLARK, JEFFREY R
SW14 NE14	2200	IR	1.700	11	SPAULDING, SCOTT A
SW14 NE14	2300	IR	2.000	11	•
					OWENS, RICHARD G
SW¼ NE¼	2400	IR	1.000	11	CLARK, JEFFREY R
SW¼ NE¼	2500	IR	2.000	11	CAPASSO, DANIEL E
SW¼ NE¼	900	IR	1.700	11	MCCORMICK, LESTER M
NE¼ NW¼	300	IR	8.000	11	JONES, CECIL
NE¼ NW¼	301	IR	5.800	11	SMITH, DEAN
NE¼ NW¼	400	IR	1.200	11	GOULD, RICHARD &
NE¼ NW¼	401	IR	4.400	11	SMITH, DEAN
NE¼ NW¼	500	IR	0.300	11	GOULD, RICHARD &
SW¼ NW¼	700	IR	3.940	11	SUDERNO, ROBERT J
SW¼ NW¼	701	IR	3.610	11	KEMRY, DARYL
SW1/4 NW1/4	704	IR	4.140	11	PERRYMAN, STEPHEN
SW1/4 NW1/4	705	IR	5.300	11	KEMRY, DARYL
SW1/4 NW1/4		IR	4.500	11	HABLE, JERRY F JR
SW1/4 NW1/4		IR	3.400	11	BURBEY, PAUL &
SW1/4 NW1/4		IR	1.500	11	SUDERNO, ROBERT J
SE¼ NW¼	600	IR	12.430	11	MARTENEY, SANDRA
SE'4 NW'4	702	IR	1.400	11	KIDD, WAYNE A
SE1/4 NW1/4	702	IR	2.000	11	VON EGGERS, KARL
	707	IR	6.590		
SE¼ NW¼				11	SMITH, WILLIAM P
NE¼ SW¼	1002	IR	4.400	11	CLINE FALLS RANCH, L.L.C
NE¼ SW¼	1003	IR	8.300	11	CLINE FALLS RANCH, L.L.C
NE¼ SW¼	702	IR	0.200	11	KIDD, WAYNE A
NW¼ SW¼		IR	5.500	11	PETERSON, ALBERT T
NW¼ SW¼	1002	IR	4.200	11	CLINE FALLS RANCH, L.L.C
NW¼ SW¼	1003	IR	14.500	11	CLINE FALLS RANCH, L.L.C
SW1/4 SW1/4	1000	IR	26.100	11	CLINE FALLS RANCH, L.L.C
SW1/4 SW1/4	1003	IR	6.200	11	CLINE FALLS RANCH, L.L.C
SE1/4 SW1/4	1000	IR	6.600	11	CLINE FALLS RANCH, L.L.C
SE1/4 SW1/4	1003	IR	3.700	11	CLINE FALLS RANCH, L.L.C
SW1/4 SE1/4	1000	IR	1.500	11	MCCALL, STEVEN H
SW1/4 SE1/4	1100	IR	3.500	11	SHELBY, DARRIN R
SW1/4 SE1/4	1200	IR	1.000	11	JONES, ELWIN
SW1/4 SE1/4	500	IR	1.500	11	HAMMER, ROBERT L
SW14 SE14	600	IR	1.500		•
S W 74 SE74	000	IK	1.500	11	HEWITT, KAREN

SW1/4 SE1/4	700	IR	2.000	11	WRIGHT, CORRY F
SW¼ SE¼	800	IR	2.500	11	RAMEY, PRISCILLA
SW¼ SE¼	900	IR	1.500	11	HEINZE, STEVEN R
				Section 12	
NE¼ NE¼	100	IR	9.800	11	VANCE, WESLEY
NW¼ NE¼	300	IR	10.500	11	KORCEK, WALTER F JR
NW¼ NE¼	301	IR	5.800	11	LIA BRAATEN, GERALD
NW¼ NE¼	400	IR	2.300	11	MORGAN, VERNON
SW1/4 NE1/4	1000	IR	2.000	11	HUFF, RICHARD
SW1/4 NE1/4	901	IR	2.000	11	GRUBBS, GORDON R JR
SW1/4 NE1/4	902	IR	1.300	11	CRONENWETT, WILLIAM H
SW¼ NE¼	902	PND	0.110	11	CRONENWETT, WILLIAM H
SW¼ NE¼	903	IR	2.500	11	BEECHER, LYNN C
SW¼ NE¼	904	IR	2.800	11	MCFARLANE, KELLY R
SW¼ NE¼	910	IR	1.100	11	LANGELIERS, RALPH
SW¼ NE¼	913	IR	5.320	11	POPISH, CHARLES R
SE¼ NE¼	1000	IR	0.500	11	HUFF, RICHARD
NE¼ NW¼	400	IR	23.190	11	MORGAN, VERNON
NE¼ NW¼	500	IR	2.000	11	MOFFITT, OMAR L
NW¼ NW¼	500	IR	33.970	11	MOFFITT, OMAR L
SW1/4 NW1/4	600	IR	37.000	11	CLEMENT, CHARLES
SE1/4 NW1/4	700	IR	25.030	11	NASH, KEITH
NE¼ SW¼	1700	IR	29.800	11	CLEMENT, CHARLES
NE¼ SW¼	1700	PND	1.920	11	CENTRAL OREGON IRRIGATION
NW¼ SW¼	1700	IR	25.700	11	CLEMENT, CHARLES
SW1/4 SW1/4	1800	IR	7.500	11	WAREING, LUCILLE ESTATE
SW1/4 SW1/4	1801	IR	4.200	11	MOOR, JACK V
SE¼ SW¼	1600	IR	38.000	11	MAYFIELD, DICK
SE1/4 SW1/4	1800	IR	0.750	11	WAREING, LUCILLE ESTATE
SE¼ SW¼	1801	IR	0.550	11	MOOR, JACK V
NW1/4 SE1/4	1400	IR	1.300	11	CLEMENT, CHARLES
NW¼ SE¼	1402	IR	3.400	11	EDWARDS, LEO A
NW¼ SE¼	1403	IR	1.600	11	BUERGER, LEROY ET AL
NW¼ SE¼	1404	IR	3.000	11	BLACKBURN, L M, ET AL
NW¼ SE¼	1700	IR	1.200	11	CLEMENT, CHARLES
NW1/4 SE1/4	1700	PND	0.450	11	CENTRAL OREGON IRRIGATION
NW¼ SE¼	904	IR	0.200	11	MCFARLANE, KELLY R
NW¼ SE¼	905	IR	3.000	11	NANNETTI, ROBERT G
NW¼ SE¼	906	IR	3.000	11	SHEDECK, GLENN D
NW¼ SE¼	907	IR	3.000	11	SANBORN, ARLAND A
NW¼ SE¼	908	IR	3.000	11	PRICE, MICHAEL E
NW¼ SE¼	909	IR	3.000	11	BROWN, EDWIN F
NW¼ SE¼	910	IR	2.400	11	LANGELIERS, RALPH
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1401	IR.	3.750	11	FIX, DAVID A
SW¼ SE¼	1402	IR	15.700	11	EDWARDS, LEO A
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1403	IR	13.350	11	BUERGER, LEROY ET AL
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1404	IR	1.000	11	BLACKBURN, L M, ET AL
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1500	IR	1.000	11	BRILEY, ODEN
SE¼ SE¼	1300	IR ID	2.880	11	RICH, BARBARA
SE¼ SE¼	2100	IR IR	3.340	11	RICH, BARBARA
SE¼ SE¼	2200	IR ID	2.440	11	SMITH, CHRISTOPHER F
SE¼ SE¼	2300	IR IB	3.340	11	DUNGAN, PHILLIP
SE¼ SE¼	2400	IR ID	1.720	11	SOLIZ, ARMANDO M
SE¼ SE¼	2401	IR IR	2.700	11	KING, RICKY L
SE¼ SE¼	2500	IR IB	2.690	11	BARBOUR, RICHARD V
SE¼ SE¼	2600	IR	3.890	11 Section 12	EAGLE CREST PARTNERS, LTD
				Section 13	
NE¼ NE¼	100	IR	1.000	11	MILLER, DOUGLAS
INE 74 INE 74	100	IK	1.000	11	MILLER, DOUGLAS
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NE¼ NE¼	200	IR	2.000	11	MILLER, DOUGLAS
NE¼ NE¼	300	IR	9.750	11	GREEN, JOHN C
NE¼ NE¼	500	IR	1.000	11	PEDERSEN, ERIC O
NE¼ NE¼	601	IR	1.000	11	WHITTON, LEONARD L
					•
SE¼ NE¼	1100	IR ID	11.000	11	HILL, DAVID A
SE¼ NE¼	1101	IR	1.200	11	HILL, DAVID A
SE¼ NE¼	1102	IR	14.500	11	SMITH, HAROLD L
SE¼ NE¼	1200	IR	1.330	11	SEEDER, GARY P
NE1/4 SE1/4	100	IR	3.500	11	REID, PATRICIA A
NE¼ SE¼	200	IR	0.600	12	OREGON STATE PARKS
NE¼ SE¼	201	IR	3.500	11	PAVLICEK, JOHN J
					•
NW¼ SE¼	200	IR	1.900	12	OREGON STATE PARKS
				Section 14	
NE¼ NE¼	100	IR	3.000	11	SMITH, ROCKY
NE¼ NE¼	102	IR	1.000	11	PEAVY, WESLEY R
NE1/4 NE1/4	103	IR	19.000	11	PEAVY, WESLEY R
NW1/4 NE1/4		IR	2.500	11	WILLIAMS, LORI L
NW¼ NE¼		IR	2.500	11	BRANDT, KEITH A
					•
NW¼ NE¼		IR.	2.500	11	HUCKE, GARY
NW¼ NE¼	1300	IR	2.000	11	MILLER, LAWRENCE R
NW¼ NE¼	1800	IR	2.500	11	WAREING, STANLEY- ESTATE
NW1/4 NE1/4	303	IR	4.000	11	KNOX, DWIGHT G
NW1/4 NE1/4	304	IR	2.180	11	LEETCH, WILLIAM M
NW¼ NE¼	305	IR	4.300	11	COSTA, DONALD E
NW¼ NE¼		IR	3.600	11	TOEVS, SAMUEL C
SW¼ NE¼	1400	IR	2.500	11	STEEGE, ELMER H
SW1/4 NE1/4	1500	IR	2.500	11	KOLISCH, EDWARD P
SW¼ NE¼	1600	IR	0.900	11	LOW, DANIEL M
SW1/4 NE1/4	1700	IR	3.000	11	BOEGELSACK, ABE
SW1/4 NE1/4	1700	PND	0.500	11	BOEGELSACK, ABE
SW¼ NE¼	300	IR	0.600	11	LOW, DANIEL M
SW1/4 NE1/4	301	IR	4.140	11	KALER, KENNETH K JR
					•
SW¼ NE¼	302	IR IR	2.120	11	KOCHHEIM, WILLIAM
SW1/4 NE1/4	308	IR	0.240	11	KNOX, DWIGHT G
SW¼ NE¼	309	IR	4.500	11	KALER, KENNETH K JR
SW1/4 NE1/4	700	IR	3.800	11	BUERGER, DARYL L
SE¼ NE¼	101	IR	6.000	11	PEAVY, WESLEY R
SE¼ NE¼	200	IR	7.320	11	BUZBEE, CHARLES
SE¼ NE¼	201	IR	10.560	11	HILL, JACK
NE¼ NW¼		IR	19.000	11	WAREING, STANLEY- ESTATE
					•
SE¼ NW¼	700	IR	31.200	11	BUERGER, DARYL L
NE1/4 SW1/4	700	IR	8.800	11	BUERGER, DARYL L
SE¼ SW¼	900	IR	32.400	11	HARRY, JOHN
NE¼ SE¼	1100	IR	1.300	11	WM. & NORMA GRAVES TRUST
NE¼ SE¼	1101	IR	10.700	11	NELSON, RONALD O
NE1/4 SE1/4	1102	IR	9.000	11	WM. & NORMA GRAVES TRUST
NE¼ SE¼	1801	IR	3.000	11	SABINE, STEVEN P
NW¼ SE¼	1100	IR	1.000	11	MADDEN, PATRICK R
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1200	IR	1.000	11	BERNARD, JEFFREY L
SW1/4 SE1/4	1400	IR	3.000	11	GILMER, BARBARA J
SW¼ SE¼	1500	IR	2.000	11	TAYLOR, LORI E
SW¼ SE¼	1600	IR	9.100	11	LANG, KATHRYN
SW1/4 SE1/4	1700	IR	7.300	11	GROGAN, THOMAS JR
SW1/4 SE1/4	900	IR	1.600	11	HARRY, JOHN
SE1/4 SE1/4	1100	IR	9.300	11	WM. & NORMA GRAVES TRST
SE¼ SE¼	1700	IR	1.700	11	GROGAN, THOMAS JR
SE¼ SE¼	1801	IR	21.000	11	SABINE, STEVEN P
SE¼ SE¼	1900	IR	0.700	11	OSSENKOP, JAMES F
				Section 24	

NE¼ NE¼	100	IR	20.000	11	HARRY, JOHN
NW¼ NE¼	100	IR	35.000	11	HARRY, JOHN
NW¼ NE¼	201	IR	2.400	11	MILES, BILL
SW¼ NE¼	508	IR	1.600	11	GERDES, GERALD D
SW¼ NE¼	509	IR	1.500	11	DWYER, SHAWN D
SW¼ NE¼	600	IR	5.000	11	HUTCHINSON, ERNEST J 'BUD'
SW¼ NE¼	601	IR	5.000	11	HUTCHINSON, ERNEST J 'BUD'
SW¼ NE¼	602	IR	5.000	11	HUTCHINSON, ERNEST J'BUD'
SW¼ NE¼	603	IR	5.000	11	HUTCHINSON, ERNEST J 'BUD'
SW¼ NE¼	604	IR	4.600	11	HUTCHINSON, ERNEST J'BUD'
SW¼ NE¼	605	IR	5.000	11	HUTCHINSON, ERNEST J'BUD'
SW¼ NE¼	606	IR	5.000	11	HUTCHINSON, ERNEST J'BUD'
SW¼ NE¼		IR IR	1.600	11	HUTCHINSON, ERNEST J'BUD'
SE¼ NE¼ NE¼ NW¼	700 200	IR	28.000 4.300	11 11	STOUTENBURG, BARBARA JEAN
NE¼ NW¼	201	IR	31.600	11	FOSTER, THORNE S MILES, BILL
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	22.200	11	FOSTER, THORNE S
NW¼ NW¼		IR	2.000	11	CROCKER, NORMA PARK
NW1/4 NW1/4		IR	2.500	11	FOSTER, THORNE S
SW1/4 NW1/4		IR	3.200	11	LAMB, HAROLD D
SW1/4 NW1/4		IR	2.150	11	LAWSON, NORMAN R
SW1/4 NW1/4		IR	1.220	11	MURRAY, PETER
SW1/4 NW1/4	503	IR	1.000	11	WREN, WILLIAM J
SW1/4 NW1/4	504	IR	1.000	11	WINSTEAD, JARY D
SW¼ NW¼	513	IR	2.400	11	SUDERNO, JOSEPH C
SE1/4 NW1/4	504	IR	4.250	11	WINSTEAD, JARY D
SE¼ NW¼	505	IR	4.800	11	GERDES, GERALD D
SE¼ NW¼	506	IR	4.850	11	BRUGGER, KAREN L
SE¼ NW¼	507	IR	4.800	11	GERDES, GERALD D
SE¼ NW¼	508	IR	2.700	11	GERDES, GERALD D
SE¼ NW¼	509	IR	2.500	11	DWYER, SHAWN D
SE¼ NW¼ SE¼ NW¼	510 511	IR IR	5.000 4.450	11 11	CHRISTIE, ELMER CHRISTIE, ELMER
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	512	IR	4.600	11	BEGIN, MIKE
SE'4 NW'4	513	IR	1.800	11	SUDERNO, JOSEPH C
NE1/4 SW1/4	1000	IR	7.600	11	WOODARD, GERALD L
NE1/4 SW1/4	1100	IR	20.200	11	BROADDUS, ROBERT
SE1/4 SW1/4	1500	IR	5.000	11	CLARK, STANLEY E & EDNA KAY
SE1/4 SW1/4	1600	IR	3.200	11	NICHOLAS, JUNE U
SE1/4 SW1/4	1901	IR	1.000	11	CARDER, PAUL
NE1/4 SE1/4	800	IR	37.650	11	HUCKFELDT, ROBERT
NW¼ SE¼	1000	IR	0.400	11	WOODARD, GERALD L
NW¼ SE¼	1100	IR	1.800	11	BROADDUS, ROBERT
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	900	IR	16.000	11	HANNAN, ERNEST
NW¼ SE¼	901	IR	18.000	11	LEHNERTZ, DALE
SW1/4 SE1/4	1901	IR	0.400	11	CARDER, PAUL
SW1/4 SE1/4	2000	IR	2.000	11	HILL, LONNIE
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	2100 2101	IR IR	0.200 27.300	11 11	CARDER, PAUL
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	2300	IR	35.000	11	CARDER, PAUL PERRY, JAMES
SE/4 SE/4	2300	ш	33.000	Section 25	I ERRI, JAWES
				Section 25	
SW1/4 SE1/4	200	IR	0.900	11	BALBINI, ARTHUR
SE1/4 SE1/4	100	IR	0.300	11	WRIGHT, E D
SE1/4 SE1/4	101	IR	17.800	11	BENNETT, JAMES E
SE¼ SE¼	200	IR	6.100	11	BALBINI, ARTHUR
				Section 35	
AIDI/AIDI/	202	ID	0.700		DODNINI GOLL CORPUES S
NE¼ NE¼	202	IR	0.700	11	DORNBUSCH, STEVEN P
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	NW¼ NE¼	1901	IR	1.130	11	CARDER, PAUL
	NW¼ NE¼	2500	IR	0.900	11	CARDER, PAUL
	NW¼ NE¼	300	IR	8.300	11	DORNBUSCH, STEVEN P
	SE1/4 NE1/4	407	IR	1.000	11	RANDOLPH, PERCY J
	NE¼ NW¼	1901	IR	1.720	11	CARDER, PAUL
	NE¼ NW¼		PND	0.350	11	CARDER, PAUL
	NE1/4 NW1/4	4300	IR	1.000	11	GOLDBECK, MONTE
	SW1/4 SW1/4	100	IR	7.400	11	WRIGHT, E D
	SW1/4 SW1/4		IR	15.300	11	ACKLEY, SHERMAN L ET AL
			~~~	10.000	Section 36	TOTAL T, STEELING TO E ET TE
				Township	15 South, Range 1	2 East, W.M.
				•	, ,	,
	NE¼ NE¼	100	IR	4.000	11	HOCKETT, DOUGLAS R
	NE¼ NE¼	200	IR	15.000	11	CHRISTOPHER, GERALD A
	NW¼ NE¼	500	IR	1.000	11	DAVIS, SANDY
	NW1/4 NE1/4	501	IR	8.000	11	JACOBSON, ROBERT
	NW1/4 NE1/4	502	IR	20.000	11	ANGEL, MARK G
	SW¼ NE¼	401	IR	13.800	11	PETERSON, RICK
	SW¼ NE¼	402	IR	17.200	11	PETERSON, RICK
	SE1/4 NE1/4	301	IR	27.000	11	TAULBEE, CARL
	NE¼ NW¼	601	IR	10.000	11	WATTS, GEORGE
	NE14 NW14	700	IR	19.000	11	HART, DAVID L
	NE1/4 NW1/4	700	PND	0.600	11	HART, DAVID L
	NW1/4 NW1/4		IR	3.000	11	CRUMMY, CHARLES P
	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	7.000	11	POFFENBARGER, E H
	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	4.000	11	WAKEFIELD, JEFFREY D
	NW¼ NW¼		IR	9.600	11	HART, DAVID L
	NW¼ NW¼		IR	2.500	11	STROUP, JOHN H
	NW¼ NW¼		IR	0.500	11	CROSS, CLETUS B
	NW¼ NW¼		IR	1.000	11	CROSS, CLETUS B
	NW¼ NW¼		IR	4.000	11	SCHAFFER, MICHAEL
	SW¼ NW¼		IR	16.000	11	GRANT, RUTH MAE
	SW¼ NW¼		IR	10.500	11	HUFF, BETTY A
	SE¼ NW¼	600	IR	24.000	11	LYCHE, WILLIAM D &
		1400	IR	34.500	11	KIRK, ALLEN A &
		1400	PND	0.500	11	KIRK, ALLEN A &
	NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	14.000	11	KIRK, ALLEN A &
	NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	20.000	11	WAGENBLAST, DAVID MIKE
	SW1/4 SW1/4		IR	9.600	11	SCHMIT, JAMES R &
	SW1/4 SW1/4		IR	16.500	11	PACIFIC STATES CLEARING CO.
	SW1/4 SW1/4	400	IR	1.000	11	BOZARTH, RON &
	SE1/4 SW1/4	100	IR	4.500	11	AYRES, HOBART
	SE1/4 SW1/4	200	IR	23.300	11	BARTHOLEMY CONSTRUCTION, INC.
	SE1/4 SW1/4	300	IR	4.800	11	KIRK, ALLEN A &
	NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	300	IR	1.800	11	TAULBEE, CHARLES W
	NE¼ SE¼	302	IR	1.200	11	GROSSNICKLE, VIRGINIA
	NW1/4 SE1/4	400	IR	22.560	11	SHORT, SARAH L
	NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	403	IR	4.000	11	SHAFER, JOYCE
	NW1/4 SE1/4	404	IR	4.000	11	HANLON, LORRAINE C
	SW1/4 SE1/4	1701	IR	18.400	11	GULLICKSON, JAMES D
	SW1/4 SE1/4	1702	IR	5.800	11	BURRIGHT, BENTON F
					Section 3	,
	NE1/4 NE1/4	100	IR	12.000	11	ROGERS, DON D ET AL
	NE1/4 NE1/4	200	IR	0.650	11	NORTH SANTIAM VENEER, INC
	NE1/4 NE1/4	200	IR	1.000	11	ROGERS, DON D ET AL
	NE1/4 NE1/4	600	IR	5.000	11	WATSON, HAYDEN H
	NE1/4 NE1/4	700	IR	3.000	11	FROST, JOHN
	NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	101	IR	1.000	11	LOYAL ORDER OF MOOSE REDMOND
	NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	200	IR	5.500	11	NORTH SANTIAM VENEER, INC
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NW1/4 NE1/4 300	IR	16.850	11	NORTH SANTIAM VENEER, INC
SW1/4 NE1/4 300	IR	0.800	11	JACOBS, J WAYNE
SW1/4 NE1/4 400	IR	1.600	11	KIRBY, LEONARD
SW1/4 NE1/4 500	IR	1.700	11	PEDEN, MRS MAXINE
SE¼ NE¼ 100	IR	0.500	11	GRANT, RUTH MAE
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200		14.600	11	WATSON, ROBERT H
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 400		8.500	11	WATSON, ROBERT H
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 500		35.500	11	HERSHEY CATTLE CO
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 500		34.500	11	HERSHEY CATTLE CO
SW¼ NW¼ 515		18.800	11	RANK, JEFF W
SE¼ NW¼ 100		2.500	11	ZEHNER, JIMMIE
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1000		4.300	11	BURDETT, DAN P
SE'4 NW'4 1000		8.500	11	BLEILE, ROBERT E
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 201	IR	2.700	11	BUETTNER, STEVE
SE' <sub>4</sub> NW' <sub>4</sub> 300		2.800	11	BROWN, DONALD E
SE'4 NW'4 400		2.000	11	
				SCHNEIDER, BLAINE
		4.400	11	BURDETT, DAN P
NW¼ SW¼ 700		16.500	11	REDMOND, CITY OF
NW¼ SW¼ 702		1.000	11	ST. THOMAS CATHOLIC CHURCH
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 704		1.400	11	ST. THOMAS CATHOLIC CHURCH
SW1/4 SW1/4 700		8.200	11	REDMOND, CITY OF
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 704		7.400	11	ST. THOMAS CATHOLIC CHURCH
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 800		21.000	11	PHILLIPS, FRANK
SE¼ SW¼ 2000		4.400	11	SCOTT, NORMAN S
SE¼ SW¼ 700		15.500	11	REDMOND, CITY OF
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 100		1.000	11	DOAN, HOWARD
NE¼ SE¼ 1000		0.500	11	PIONEER PUP FUELING
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 200		1.000	11	KUPER, LEO
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 400		0.700	11	SPRUELL, JEWEL
$NE^{1}/4SE^{1}/4$ 500		1.300	11	SPRUELL, JEWEL
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 600		3.520	11	CENTRAL ELECTRIC CO-OP
NE¼ SE¼ 700		3.290	11	CENTRAL ELECTRIC CO-OP
NW¼ SE¼ 100		4.500	11	CRAWFORD, JAMES
NW¼ SE¼ 200		3.700	11	STURZA, ED A
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 100		8.000	11	NEWTON, BERTHA M
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 200		9.000	11	LEHNERTZ, WALLY
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 200		4.500	11	MILLER, BOZARTH AND BOZARTH
$SE^{1/4}SE^{1/4}$ 300		6.500	11	BENZ, MICHAEL E
$SE^{1/4}SE^{1/4}$ 400		9.000	11	BOZARTH, RON &
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 800	IR	0.650	11	IVANCOVICH HOME SALES
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 900	IR	0.600	11	IVANCOVICH HOME SALES
			Section 4	
NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 105		12.300	11	USHER, ROBERT E
NW¼ NE¼ 100		4.500	11	JOHNSON, L A
NW¼ NE¼ 105		29.200	11	USHER, ROBERT E
SW¼ NE¼ 401		28.800	11	DE MEYER, JOE
SE¼ NE¼ 200		19.000	11	VON WELLER, SYLVIA S
SE¼ NE¼ 300		7.000	11	PROCTOR, FREEMAN
SE¼ NE¼ 302	IR	4.500	11	VOLZ, CHARLES G
NE¼ NW¼ 500	IR	3.000	11	HENDERSON, DEBORAH SUE
NE¼ NW¼ 600	IR	28.000	11	LERWILL, MARVIN D
NW¼ NW¼ 700	IR	18.000	11	BABCOCK, NORMAN P
NW¼ NW¼ 701	IR	11.300	11	HARVEY, NEAL
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 702	IR	4.700	11	KLINGLE, DONALD E
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 801	IR	5.700	11	WELLS, KEVIN D
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 802	IR	5.000	11	CARPENTER, THOMAS
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 803	IR	18.000	11	JONES, DENNIS
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 804	IR	2.350	11	DAVIS, KURT B
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 800	IR	15.700	11	ROBISON, GLENN

SE1/4 NW1/4	800	PND	0.400	11	ROBISON, GLENN
SE1/4 NW1/4	804	IR	18.400	11	DAVIS, KURT B
NE¼ SW¼	900	IR	25.200	11	MALOTT, RAY
NW1/4 SW1/4	900	IR	30.200	11	MALOTT, RAY
SW¼ SW¼	1000	IR	4.500	11	RUBLE, GORDON L
SW1/4 SW1/4	1001	IR	4.500	11	SKILES, JOHN C
SW1/4 SW1/4	1002	IR	4.900	11	PICKLES, JOHN
SW1/4 SW1/4	1003	IR	4.500	11	EDWARDS, MARK A
SW1/4 SW1/4	1004	IR	8.500	11	RANK, LEONARD
SW1/4 SW1/4	1005	IR	4.500	11	SKILES, JOHN C
SW1/4 SW1/4	1006	IR	4.600	11	PICKLES, JOHN
SE1/4 SW1/4	900	IR	27.100	11	MALOTT, RAY
NE¼ SE¼	300	IR	18.500	11	PROCTOR, FREEMAN
NE1/4 SE1/4	301	IR	19.000	11	JAQUA, DAVE
NW¼ SE¼	400	IR	4.600	11	DE MEYER, JOE
NW¼ SE¼	402	IR	4.690	11	WEBER, G C
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	403	IR	25.600	11	DE MEYER, JOE
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1100	IR	18.000	11	HODSON, BRIAN W ET AL
SW1/4 SE1/4	1101	IR	3.600	11	GROVER, DEAN B
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1101	IR	4.300	11	WEAVER, WILLIAM A
SW1/4 SE1/4 SW1/4 SE1/4	1102	IR	4.770	11	WEBER, G C
	1103	IR	4.770		
SW¼ SE¼				11	JENSON, DAN C
SE' <sub>4</sub> SE' <sub>4</sub>	1100	IR ID	19.000	11	HODSON, BRIAN W ET AL
SE¼ SE¼	1200	IR ID	6.400	11	CLARK, DAVID E
SE¼ SE¼	1300	IR	4.150	11	HUNTER, EDWARD D
SE¼ SE¼	1300	PND	1.000	11	HUNTER, EDWARD D
SE¼ SE¼	1400	IR IR	3.100	11	HUNTER, EDWARD D
SE¼ SE¼	1401	IR ID	2.200	11	HUNTER, EDWARD D
SE1/4 SE1/4	1402	IR	2.550	11	HUNTER, EDWARD D
				a	
				Section 5	
NIEL/ NIEL/	100	ID	4 240		EDINGON TOTANHE C
NE¼ NE¼	100	IR IB	4.240	11	ERIKSON, JOHNNIE C
NE¼ NE¼	101	IR	7.000	11 11	LEDBETTER, THOMAS
NE¼ NE¼ NE¼ NE¼	101 3900	IR IR	7.000 3.930	11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL
NE¼ NE¼ NE¼ NE¼ NE¼ NE¼	101 3900 4000	IR IR IR	7.000 3.930 4.240	11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C
NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NE¼	101 3900 4000 4100	IR IR IR IR	7.000 3.930 4.240 2.250	11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E
NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NE¼	101 3900 4000 4100 4200	IR IR IR IR IR	7.000 3.930 4.240 2.250 2.490	11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V
NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NE¼	101 3900 4000 4100 4200 4300	IR IR IR IR IR IR	7.000 3.930 4.240 2.250 2.490 2.930	11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR
NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NE¼ NW¼ NE¼	101 3900 4000 4100 4200 4300 200	IR IR IR IR IR IR IR	7.000 3.930 4.240 2.250 2.490 2.930 13.400	11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM
NE¼ NW¼ NE¼ NW¼ NE¼	101 3900 4000 4100 4200 4300 200 4900	IR IR IR IR IR IR IR	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100	11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM
NE¼ NW¼ NE¼ NW¼ NE¼ SE¼ NE¼	101 3900 4000 4100 4200 4300 200 4900 3100	IR IR IR IR IR IR IR IR	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730	11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET
NE¼ NW¼ NE¼ NW¼ NE¼ SE¼ NE¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200	IR IR IR IR IR IR IR IR	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600	11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY
NE¼ NW¼ NE¼ NW¼ NE¼ SE¼ NE¼ SE¼ NE¼ SE¼ NE¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200 3300	IR	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600 4.490	11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY MCKINLEY, CARL K
NE¼ NW¼ NE¼ NW¼ NE¼ SE¼ NE¼ SE¼ NE¼ SE¼ NE¼ SE¼ NE¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200 3300 3400	IR	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600 4.490 4.360	11 11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY MCKINLEY, CARL K WINTERS, THOMAS
NE¼ NW¼ NE¼ NW¼ NE¼ SE¼ NE¼ SE¼ NE¼ SE¼ NE¼ SE¼ NE¼ SE¼ NE¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200 3300 3400 3500	IR	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600 4.490 4.360 4.040	11 11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY MCKINLEY, CARL K WINTERS, THOMAS MOORE, DORIS M
NE¼ NW¼ NE¼ NW¼ NE¼ SE¼ NE¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200 3300 3400 3500 3600	IR I	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600 4.490 4.360 4.040 4.020	11 11 11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY MCKINLEY, CARL K WINTERS, THOMAS MOORE, DORIS M DILLEY, PATRICK W
NE¼ NW¼ NE¼ SE¼ NE¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200 3300 3400 3500 3600 3700	IR I	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600 4.490 4.360 4.040 4.020 4.520	11 11 11 11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY MCKINLEY, CARL K WINTERS, THOMAS MOORE, DORIS M DILLEY, PATRICK W MOULTON, GLEN L
NE¼ NW¼ NE¼ NW¼ NE¼ SE¼ NE¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200 3300 3400 3500 3600 3700 3800	IR IR IR IR IR IR IR IR IR IR IR IR	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600 4.490 4.360 4.040 4.020 4.520 3.910	11 11 11 11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY MCKINLEY, CARL K WINTERS, THOMAS MOORE, DORIS M DILLEY, PATRICK W MOULTON, GLEN L STUBBLEFIELD, R JOE
NE¼ NW¼ NE¼ SE¼ NE¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200 3300 3400 3500 3600 3700	IR IR IR IR IR IR IR IR IR IR IR IR IR I	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600 4.490 4.360 4.040 4.020 4.520	11 11 11 11 11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY MCKINLEY, CARL K WINTERS, THOMAS MOORE, DORIS M DILLEY, PATRICK W MOULTON, GLEN L
NE¼ NW¼ NE¼ NW¼ NE¼ SE¼ NE¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200 3300 3400 3500 3600 3700 3800 200 400	IR IR IR IR IR IR IR IR IR IR IR IR IR I	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600 4.490 4.360 4.040 4.020 4.520 3.910 1.000 7.700	11 11 11 11 11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY MCKINLEY, CARL K WINTERS, THOMAS MOORE, DORIS M DILLEY, PATRICK W MOULTON, GLEN L STUBBLEFIELD, R JOE
NE¼ NW¼ NE¼ NW¼ NE¼ SE¼ NE¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200 3300 3400 3500 3600 3700 3800 200 400 500	IR IR IR IR IR IR IR IR IR IR IR IR IR I	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600 4.490 4.360 4.040 4.020 4.520 3.910 1.000 7.700 2.000	11 11 11 11 11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY MCKINLEY, CARL K WINTERS, THOMAS MOORE, DORIS M DILLEY, PATRICK W MOULTON, GLEN L STUBBLEFIELD, R JOE MCEWEN, LONNY WHITAKER, ELBERT HALL, ALICE F
NE¼ NW¼ NE¼ SE¼ NE¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200 3300 3400 3500 3600 3700 3800 200 400	IR IR IR IR IR IR IR IR IR IR IR IR IR I	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600 4.490 4.360 4.040 4.020 4.520 3.910 1.000 7.700	11 11 11 11 11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY MCKINLEY, CARL K WINTERS, THOMAS MOORE, DORIS M DILLEY, PATRICK W MOULTON, GLEN L STUBBLEFIELD, R JOE MCEWEN, LONNY WHITAKER, ELBERT
NE¼ NW¼ NE¼ NW¼ NE¼ SE¼ NE¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200 3300 3400 3500 3600 3700 3800 200 400 500	IR I	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600 4.490 4.360 4.040 4.020 4.520 3.910 1.000 7.700 2.000	11 11 11 11 11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY MCKINLEY, CARL K WINTERS, THOMAS MOORE, DORIS M DILLEY, PATRICK W MOULTON, GLEN L STUBBLEFIELD, R JOE MCEWEN, LONNY WHITAKER, ELBERT HALL, ALICE F
NE¼ NW¼ NE¼ SE¼ NW¼ SE¼ NW¼ SE¼ NW¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200 3300 3400 3500 3600 3700 3800 200 400 500 600	IR I	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600 4.490 4.360 4.040 4.020 4.520 3.910 1.000 7.700 2.000 2.000	11 11 11 11 11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY MCKINLEY, CARL K WINTERS, THOMAS MOORE, DORIS M DILLEY, PATRICK W MOULTON, GLEN L STUBBLEFIELD, R JOE MCEWEN, LONNY WHITAKER, ELBERT HALL, ALICE F HAMMACK, DOUGLAS V
NE¼ NW¼ NE¼ SE¼ NW¼ SE¼ NW¼ SE¼ NW¼ SE¼ NW¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200 3300 3400 3500 3600 3700 3800 200 400 500 600 700	IR I	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600 4.490 4.360 4.040 4.020 4.520 3.910 1.000 7.700 2.000 2.000 1.000	11 11 11 11 11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY MCKINLEY, CARL K WINTERS, THOMAS MOORE, DORIS M DILLEY, PATRICK W MOULTON, GLEN L STUBBLEFIELD, R JOE MCEWEN, LONNY WHITAKER, ELBERT HALL, ALICE F HAMMACK, DOUGLAS V DAVIS, CLIFF L, ET AL SALINAS, MARLENE MAYO, PAMELA LOUISE
NE¼ NW¼ NE¼ NW¼ NE¼ SE¼ NW¼ SE¼ NW¼ SE¼ NW¼ SE¼ NW¼ SE¼ NW¼ SE¼ NW¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200 3300 3400 3500 3600 3700 3800 200 400 500 600 700 800	IR I	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600 4.490 4.360 4.040 4.020 4.520 3.910 1.000 7.700 2.000 2.000 1.000 2.000	11 11 11 11 11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY MCKINLEY, CARL K WINTERS, THOMAS MOORE, DORIS M DILLEY, PATRICK W MOULTON, GLEN L STUBBLEFIELD, R JOE MCEWEN, LONNY WHITAKER, ELBERT HALL, ALICE F HAMMACK, DOUGLAS V DAVIS, CLIFF L, ET AL SALINAS, MARLENE
NE¼ NW¼ NE¼ SE¼ NW¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200 3300 3400 3500 3600 3700 3800 200 400 500 600 700 800 900	IR I	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600 4.490 4.360 4.040 4.020 4.520 3.910 1.000 7.700 2.000 2.000 1.000 2.000 4.000	11 11 11 11 11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY MCKINLEY, CARL K WINTERS, THOMAS MOORE, DORIS M DILLEY, PATRICK W MOULTON, GLEN L STUBBLEFIELD, R JOE MCEWEN, LONNY WHITAKER, ELBERT HALL, ALICE F HAMMACK, DOUGLAS V DAVIS, CLIFF L, ET AL SALINAS, MARLENE MAYO, PAMELA LOUISE
NE¼ SE¼ NW¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200 3300 3400 3500 3600 3700 3800 200 400 500 600 700 800 900 1000	IR I	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600 4.490 4.360 4.040 4.020 4.520 3.910 1.000 7.700 2.000 2.000 1.000 2.000 4.000 5.500	11 11 11 11 11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY MCKINLEY, CARL K WINTERS, THOMAS MOORE, DORIS M DILLEY, PATRICK W MOULTON, GLEN L STUBBLEFIELD, R JOE MCEWEN, LONNY WHITAKER, ELBERT HALL, ALICE F HAMMACK, DOUGLAS V DAVIS, CLIFF L, ET AL SALINAS, MARLENE MAYO, PAMELA LOUISE WHITAKER, R L
NE¼ NW¼ NE¼ SE¼ NW¼ SE¼ SW¼ NE¼ SW¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200 3300 3400 3500 3600 3700 3800 200 400 500 600 700 800 900 1100 1200	IR I	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600 4.490 4.360 4.040 4.020 4.520 3.910 1.000 7.700 2.000 2.000 1.000 2.000 4.000 5.500 8.500	11 11 11 11 11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY MCKINLEY, CARL K WINTERS, THOMAS MOORE, DORIS M DILLEY, PATRICK W MOULTON, GLEN L STUBBLEFIELD, R JOE MCEWEN, LONNY WHITAKER, ELBERT HALL, ALICE F HAMMACK, DOUGLAS V DAVIS, CLIFF L, ET AL SALINAS, MARLENE MAYO, PAMELA LOUISE WHITAKER, R L WHITAKER, ELBERT
NE¼ NW¼ NE¼ SE¼ NW¼ SE¼ SW¼ NE¼ SW¼	101 3900 4000 4100 4200 4300 200 4900 3100 3200 3300 3400 3500 3600 3700 3800 200 400 500 600 700 800 900 1100 1200	IR I	7.000 3.930 4.240 2.250 2.490 2.930 13.400 6.100 3.730 4.600 4.490 4.360 4.020 4.520 3.910 1.000 7.700 2.000 2.000 1.000 2.000 4.000 5.500 8.500 2.000	11 11 11 11 11 11 11 11 11 11 11 11 11	LEDBETTER, THOMAS MCBRIDE, BRIAN ET AL BURNETT, DAVID C HOLCOMBE, WILLIAM E HAAGENSTAD, LOLA V SEARLE, BILL G JR BREWER, JIM BREWER, JIM BROWN, JANET ERICKSON, JERRY MCKINLEY, CARL K WINTERS, THOMAS MOORE, DORIS M DILLEY, PATRICK W MOULTON, GLEN L STUBBLEFIELD, R JOE MCEWEN, LONNY WHITAKER, ELBERT HALL, ALICE F HAMMACK, DOUGLAS V DAVIS, CLIFF L, ET AL SALINAS, MARLENE MAYO, PAMELA LOUISE WHITAKER, ELBERT KERSHNER, CHRISTOPHER I

	SE1/4 SW1/4	1300	IR	2.000	11	VEENKER, GEORGE F
	SE1/4 SW1/4	1400	IR	5.000	11	WHITE, MARSHALL S
	SE1/4 SW1/4	1500	IR	7.000	11	KILIAN, KIRBY M
	SE1/4 SW1/4	1600	IR	5.800	11	MARSHALL, JAMES E
	SE1/4 SW1/4	1601	IR	6.000	11	TERRY, FRANK
	NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	7200	IR	15.000	11	STOTTS, HELEN C
	SW1/4 SE1/4	7000	IR	5.400	11	
	SW14 SE14	7000	IR	7.000	11	WALKER, JOHN MICHAEL ET AL
	SW14 SE14	7100	IR	2.400		RUTLEDGE, CHESTER F
					11	RAMSEY, MICHAEL L
	SW¼ SE¼	7101	IR	2.300	11	RAMSEY, MICHAEL L
	SE¼ SE¼	6900	IR	8.000	11	LEEDS, DOUGLAS T
	SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	6901	IR	4.500	11	GARRETT, FRANK L
	SE¼ SE¼	7300	IR	5.250	11	WETER, O B
	SE¼ SE¼	7400	IR	4.750	11	NORMAN, BRETT ET. AL.
					Section 6	
	NE¼ NE¼	2200	TD	10.500	1.1	MCCILLIUDAN THOMAS C
		3200	IR	10.500	11	MCGILLIVRAY, THOMAS G
	NE¼ NE¼	3201	IR	2.300	11	SCHRADER, LAWRENCE G
	NE¼ NE¼	3202	IR	1.000	11	JUSTICE, DONALD R
	NE¼ NE¼	3300	IR	4.660	11	NORDMAN, SHEILA ANN
	NW¼ NE¼	100	IR	7.700	11	HAVENS, GREGORY D
	NW¼ NE¼	101	IR	4.300	11	CHANDLER, CHRISTEN M, ET AL
	NW¼ NE¼	201	IR	5.000	11	SMITH, DANIEL K
	NW¼ NE¼	203	IR	6.000	11	WOOLLEY, ROBERT H
	SW¼ NE¼	200	IR	4.500	11	REED, PATRICIA R &
	SW¼ NE¼	202	IR	20.500	11	FRISCHKNECHT, W DEAN
	NE¼ NW¼	301	IR	8.500	11	BOTHUM, MARVIN
	NE¼ NW¼	304	IR	1.500	11	WILLIAMS, JULIE A
	NE¼ NW¼	400	IR	3.000	11	AYRES, S DALE
	NE1/4 NW1/4	401	IR	2.000	11	MATHEWS, MARGARET & JOHN
	SE1/4 NW1/4	500	IR	23.000	11	GRIFFITHS, JAMES
	NE1/4 SW1/4	500	IR	26.200	11	GRIFFITHS, JAMES
	NW1/4 SW1/4	500	IR	18.800	11	GRIFFITHS, JAMES
	SW1/4 SW1/4	700	IR	2.450	11	HIGBEE, MAX W DMD
	SW1/4 SW1/4	701	IR	3.100	11	HIGBEE, MAX W
	SW1/4 SW1/4	702	IR	7.700	11	HIGBEE, MAX W
	SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	800	IR	2.000	11	HALL, CAROLE G
	SE14 SW14	801	IR	2.000	11	MURRELL, NOLAN JR
	SE¼ SW¼	803	IR	4.000	11	BARNETT, ROBERT W
	SE' <sub>4</sub> SW' <sub>4</sub>	804	IR	7.000	11	DELANO, THOMAS A
	SE1/4 SW1/4	805	IR	8.000	11	LARKIN, DEAN R
	NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1100	IR	5.200	11	SCHULTZ, ARTHUR R
	NE'4 SE'4	1101	IR	6.000		•
					11	LEITHAUSER, FRANK P
	NEW SEW	1200	IR IB	7.000	11	BESEL, BEA
	NE¼ SE¼	1202	IR	6.000	11	PLATT, PHILLIP E
	NW¼ SE¼	1000	IR	4.000	11	HOLMES, CATHARINE A
	SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	900	IR	25.000	11	PICK, DUSTIN L
	SE¼ SE¼	1301	IR	4.000	11	VELTMAN, KIM A
	SE¼ SE¼	1303	IR	3.000	11	WOLF, GEORGIA L
	SE¼ SE¼	1304	IR	1.000	11	MAYO, JAMES
	SE¼ SE¼	1305	IR	5.470	11	STEED, SANDRA L
	SE¼ SE¼	1306	IR	2.400	11	BROOKS, DONNA J
					Section 7	
	) IT31 / 3 *== :	4.0.0		4 000		
	NE¼ NE¼	100	IR	1.000	11	HAMEL, JERRY H
	NE¼ NE¼	103	IR	2.000	11	SMITH, WILLIAM
	NE¼ NE¼	104	IR	2.000	11	PRESTON, DEWEY A
	NE¼ NE¼	200	IR	2.000	11	DIGUA, JAY B
	NE¼ NE¼	300	IR	5.900	11	LASH, ALVIN
	NE¼ NE¼	301	IR	0.500	11	ELLISON, CHARLES J
HE	33111.bwb				Page 33 of 105	76358

NE¼ NE¼ 30	2 IR	4.000	11	CHRISTIANSEN, DANIEL J
NE¼ NE¼ 30	3 IR	3.700	11	KELM, MILTON D
NE¼ NE¼ 30	4 IR	2.600	11	KELM, MILTON D
NE¼ NE¼ 40	0 IR	8.600	11	LASH, ALVIN
NW¼ NE¼ 80	2 IR	18.500	11	WEAVER, WILLIAM A
NW¼ NE¼ 80		18.700	11	BETTESWORTH, JAY
NW¼ NE¼ 80		0.800	11	BETTESWORTH, JAY
SW¼ NE¼ 80		26.100	11	PENHOLLOW, CLYDE ET AL
				*
		2.000	11	PENHOLLOW, C D
SW¼ NE¼ 80		9.900	11	PENHOLLOW, CLYDE ET AL
SE¼ NE¼ 10		9.000	11	PAVLICEK, JOHN J
SE¼ NE¼ 60		19.300	11	CENTRAL CASCADE LTD
NE¼ NW¼ 100	0 IR	1.500	11	MCCORMICK, MRS DENNEY
NE¼ NW¼ 100	1 IR	7.100	11	GEORGE, HAROLD
NE¼ NW¼ 100	2 IR	23.500	11	MCCORMACK, DONNA C
NE¼ NW¼ 110	0 IR	0.800	11	BARNES, FRANCES
NE¼ NW¼ 120	0 IR	1.100	11	GEORGE, HAROLD
NW¼ NW¼ 130		6.000	11	DOWSE, RHEA E
NW¼ NW¼ 140		20.000	11	RANK, LEONARD
SW¼ NW¼ 140		4.700	11	KREHBIEL, THOMAS D
SW¼ NW¼ 140		4.700	11	CAMPBELL, EDWARD W
				•
SW¼ NW¼ 140		19.500	11	KREHBIEL, SHIRLEY
SW¼ NW¼ 140		8.100	11	KREHBIEL, SHIRLEY
SW¼ NW¼ 140		0.300	11	KREHBIEL, SHIRLEY
SE¼ NW¼ 100		8.000	11	MCCORMICK, MRS DENNEY
SE¼ NW¼ 100	1 IR	10.800	11	GEORGE, HAROLD
SE¼ NW¼ 100	2 IR	15.000	11	MCCORMACK, DONNA C
SE¼ NW¼ 90	0 IR	2.000	11	WOODWARD, VAN E ET AL
NE¼ SW¼ 150	1 IR	7.000	11	HERITAGE CHAPEL, INC
NE¼ SW¼ 150	2 IR	0.600	11	HALL, FRED
NE¼ SW¼ 150		0.200	11	THOMPSON, DONALD G
NE¼ SW¼ 150		1.400	11	HANSEN, STANLEY
NE'4 SW'4 150		1.300	11	POSEY, ROBERT E
NE'4 SW'4 150		5.300	11	NIERMANN, AL
NE'4 SW'4 151		2.600	11	IRVIN, DONALD W
				•
NE¼ SW¼ 151		3.170	11	VAN WERT, ELDRIT E
NW¼ SW¼ 150		14.000	11	COLLIER, LORETTA
NW¼ SW¼ 150		2.930	11	HALL, FRED
NW¼ SW¼ 150		3.300	11	THOMPSON, DONALD G
NW¼ SW¼ 150	5 IR	1.400	11	POSEY, ROBERT E
NW¼ SW¼ 150	6 IR	3.750	11	MALOTT, RAY
NW¼ SW¼ 150	8 IR	3.500	11	MALOTT, RAY
NW¼ SW¼ 151	2 IR	0.250	11	MALOTT, RAY
NW¼ SW¼ 151	3 IR	0.800	11	WATERS, THOMAS D
SW¼ SW¼ 160	0 IR	4.000	11	TOWELL, P DELBERT
SW1/4 SW1/4 160		4.000	11	HOCKETT, DEBORAH A
SW¼ SW¼ 180		4.000	11	ELSTER, PETER A
SW1/4 SW1/4 190		3.500	11	CHURCHILL, MARY K
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 190		3.500	11	BMC PROPERTIES, INC.
		3.000	11	-
SW1/4 SW1/4 200				MILLER, PAUL J
SW1/4 SW1/4 200		7.000	11	GULLO, SAM J
SE¼ SW¼ 210		0.800	11	GOWEN, BOBB
SE¼ SW¼ 210		4.600	11	DALESSI, MIKE J
SE¼ SW¼ 210		9.500	11	KILLPACK, BARBARA L
SE¼ SW¼ 210		9.500	11	FRANCIS, FRANK
SE¼ SW¼ 210	4 IR	2.500	11	BLANKEVOORT, HENRY
SE¼ SW¼ 210	5 IR	0.400	11	BJORVIK, RODNEY L
SE¼ SW¼ 210	6 IR	4.300	11	BJORVIK, RODNEY L
SE¼ SW¼ 210	7 IR	1.100	11	DALESSI, MIKE J
SE¼ SW¼ 210		2.300	11	DALESSI, MIKE J

NE¼ SE¼	8800	IR	2.000		11	PRESBYTERIAN CHURCH
NE1/4 SE1/4	8900	IR	8.000		11	PRESBYTERIAN CHURCH
NW1/4 SE1/4	2300	IR	18.100		11	WAKEFIELD, VIRGINIA
NW1/4 SE1/4	2300	PND	0.900		11	WAKEFIELD, VIRGINIA
NW1/4 SE1/4	2301	IR	1.480		11	WAGNER, STEPHEN K
NW¼ SE¼	2302	IR	18.520		11	REDMOND ESTATES PARTNERS
SW1/4 SE1/4	2200	IR	4.500		11	HILL, DUEWAN K
SW1/4 SE1/4	2201	IR	27.000		11	REDMOND ESTATES PARTNERS
SW1/4 SE1/4	2202	IR	4.500		11	CASE, ELVA MAE, ET AL
SE¼ SE¼	2401	IR	6.300		11	PETERSON, DALE R
SE1/4 SE1/4	2404	IR	1.700		11	WILLIQUETTE, CARL B
SE1/4 SE1/4	2500	IR	7.500		11	REDMOND, CITY OF
SE1/4 SE1/4	2500	IR	16.500		11	REDMOND SCHOOL DISTRICT
					Section 8	
NE¼ NE¼	100	IR	1.700		11	CENTRAL OREGON DIST HOSP
NE¼ NE¼	101	IR	0.800		11	CENTRAL OREGON DIST HOSP
NE¼ NE¼	1900	IR	0.800		11	HORIZON HOMES INC, OF OREGON
NE¼ NE¼	300	IR	1.200		11	UNGER, DR R L
NE¼ NE¼	301	IR	0.820		11	UNGER, DR R L
NE¼ NE¼	400	IR	0.600		11	UNGER, DR R L
NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	500	IR	0.670		11	TYSON, WILLIAM
NW1/4 NE1/4		IR	2.200		11	WHITTIER, R D
SW1/4 NE1/4	200	IR	1.800		11	STACK, DR ROGER
SW1/4 NE1/4	200	PND	0.150		11	STACK, DR ROGER
SW¼ NE¼	300	IR	1.000		11	BURTON, MICHAEL A
SW1/4 NE1/4	400	IR	0.250		11	BURTON, MICHAEL A
SE¼ NE¼	0	IND	9.300		11	DESCHUTES COUNTY
SE¼ NE¼	0	IND	25.000		11	CENTRAL OREGON IRRIGATION
SE¼ NE¼	1000	IR	1.000		11	ANDERSON, JAMES A
SE¼ NE¼	1802	IR	1.300		11	JUSSILA, JEANNE
SE¼ NE¼	701	IR	0.500		11	PURI, SATISH M
SE¼ NE¼	801	IR	1.000		11	ARNETT, JOHN ET AL
SE¼ NE¼	804	IR	1.150		11	BENDER, HELEN
SE¼ NE¼	900	IR	1.500		11	BENDER, HELEN
NW1/4 NW1/4		IR	7.100		11	HOLCOMB, RAYMOND A
NW¼ NW½		IR	3.500		11	ALACANO, CRAIG
NW¼ NW½		IR	2.000		11	BASSETT, RICHARD
NW¼ NW¼		IR	1.900		11	WESTENDORF, JAMES R
NW¼ NW½		IR	1.740		11	NICKELL, RICK E
NW¼ NW¼		IR	1.810		11	THRASHER, GARY N
NW¼ NW½		IR	2.000		11	SCOTT, RICHARD L
NW1/4 NW1/4		IR	1.000		11	PHILLIPS, FRANK
NW¼ NW½		IR	8.000		11	CUMMINGS, DON
SW1/4 NW1/4		IR	23.650		11	TENNANT DEVELOPMENT
SW1/4 NW1/4		IR	0.800		11	WHEATON, KEN
SW1/4 NW1/4		IR	8.000		11	TENNANT DEVELOPMENT
SE1/4 NW1/4		IR	7.400		11	TENNANT DEVELOPMENT
SE¼ NW¼		IR	0.200		11	STACK, DR ROGER
SE¼ NW¼		IR	18.000		11	MCDONALD, IRA W ET AL
NE¼ SW¼		IR	15.000		11	MCDONALD, IRA W ET AL
NE'4 SW'4		IR	7.000		11	REDMOND, CITY OF
SW1/4 SW1/4		IR IR	4.500		11	MALLERY LIVING TRUST
SW1/4 SW1/4		IR	4.900		11	KITTELSON, CARL A
SW1/4 SW1/4		PND	0.400		11	KITTELSON, CARL A KITTELSON, CARL A
SW 74 SW 74 SW 1/4 SW 1/4		IR	1.700		11	SMITH, FORREST H
SW 74 SW 74 SW 1/4 SW 1/4		IR IR	1.800		11	WATKINS, RICHARD R
SW 74 SW 74 SW 1/4 SW 1/4		IR	1.500		11	CASE, JIM
SW 1/4 SW 1/4 SW 1/4 SW 1/4		IR IR	2.200		11	ASSEMBLY OF GOD CHURCH
SW 74 SW 74 SW 1/4 SW 1/4		IR IR	6.000		11	DUNN, DON R
D VV /4 D VV /4	200	11/	0.000		11	Domin, Dom K
				_		

	SW1/4 SW1/4	400	IR	0.500	11	MULASKEY, DENNIS M
	SW1/4 SW1/4	500	IR	0.800	11	MULASKEY, DENNIS M
	SE1/4 SW1/4	1702	IR	2.000	11	REDMOND, CITY OF
	SE¼ SW¼	1801	IR	2.900	11	EGGLESTON, HEATHER SCOTT
	SE¼ SW¼	1900	IR	0.500	11	EGGLESTON, HEATHER SCOTT
	SE1/4 SW1/4	2000	IR	0.500	11	BANTZ, JOHN
	NE¼ SE¼	800	IR	2.400	11	SPROAT, ARTHUR
					Section 9	
	> 111 / > 111 /	•				63.4.6.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4
	NW¼ NE¼	200	IR ID	6.000	11	GNAGY, WALTER
		1100	IR	2.000	11	BEDWELL, HARRY V ET AL
	SW¼ NE¼	900	IR ID	1.000	11	SOUTHERN, DOUGLAS E ET AL
	NE¼ NW¼	100	IR	12.700	11	PARTIN, JOHN-STURZA, ED &
	NE¼ NW¼	101	IR ID	7.000	11	MAHONEY, JOHN A
	NE¼ NW¼ NW¼ NW¼	102	IR IR	15.300 3.700	11 11	AQUA-TRONICS, INC
	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	200 201	IR IR	14.300	11	POVEY, MRS TED
	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	302	IR	0.800	11	POVEY, MRS TED BULTER, RICHARD L
	SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	300	IR	2.400	11	BULTER, RICHARD L
	SW14 NW14	500	IR	8.800	11	DEAN, PAT C
	SW1/4 NW1/4	600	IR	18.500	11	SCHLOSSER, PHILLIP D ET AL
	SE¼ NW¼	700	IR	34.000	11	SCHLOSSER, PHILLIP D
	NE¼ SW¼	100	IR	4.700	11	WIPRUD, WILLIAM L DEFINED-
	NE'4 SW'4	101	IR	1.300	11	WIPRUD, WILLIAM L DEFINED-
	NE¼ SW¼	200	IR	6.600	11	MADDOX, CLARK
	NE¼ SW¼	201	IR	2.000	11	CROWN PACIFIC LEASING
	NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	202	IND	14.000	11	CROWN PACIFIC LEASING
	NE1/4 SW1/4	300	IND	6.000	11	CROWN PACIFIC LEASING
	NW1/4 SW1/4	100	IR	0.300	11	HULL, JAMES C
		1000	IND	0.250	11	CROWN PACIFIC LEASING
	NW¼ SW¼	200	IR	0.700	11	HULL, JAMES C
	NW¼ SW¼	300	IR	1.700	11	S-4 PROPERTIES
	NW¼ SW¼	301	IR	0.750	11	MCCLELLAN, GRANT
	NW¼ SW¼	800	IR	2.800	11	HUDSON, ARTHUR
	NW¼ SW¼	800	PND	0.200	11	HUDSON, ARTHUR
	NW¼ SW¼	900	IR	14.660	11	MADDOX, CLARK
	SE¼ SW¼	100	IND	4.000	11	CROWN PACIFIC LEASING
	SE¼ SW¼	1000	IR	0.200	11	CROWN PACIFIC LEASING
		1100	IR	1.800	11	CROWN PACIFIC LEASING
	SE1/4 SW1/4	500	IR	0.100	11	COGBURN, DANNY H, ET AL
	SE¼ SW¼	600	IR	0.200	11	COGBURN, DANNY H, ET AL
	SE1/4 SW1/4	700	IR	0.100	11	COGBURN, DANNY H, ET AL
	SE1/4 SW1/4	800	IR	0.250	11	COGBURN, DANNY H, ET AL
	SE¼ SW¼	900	IR	0.100	11	COGBURN, DANNY H, ET AL
					Section 10	
	SE¼ NW¼	600	IR	0.500	11	JUNIPER GOLF CLUB
	NE¼ SW¼	300	IR	16.300	11	JUNIPER GOLF CLUB
	NE¼ SW¼	300	PND	2.400	11	JUNIPER GOLF CLUB
	NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	300	IR	1.300	11	JUNIPER GOLF CLUB
	SW1/4 SW1/4	300	IR	23.400	11	JUNIPER GOLF CLUB
	SW1/4 SW1/4	300	PND	3.900	11	JUNIPER GOLF CLUB
	SE1/4 SW1/4	300	IR	18.100	11	JUNIPER GOLF CLUB
	NW¼ SE¼	300	IR	0.800	11	JUNIPER GOLF CLUB
	SW¼ SE¼	300	IR	0.300	11	JUNIPER GOLF CLUB
					Section 15	
	DEDI (O) ID	000	MIDI	766.057	11	DEDMOND CITY OF
	REDMOND			766.957	11	REDMOND, CITY OF
	NW¼ NW¼ NW¼ NW¼		IR ID	2.500 1.250	11 11	SCRIVNER, J KEITH LANDIS, TED
	IN W 74 IN W 74	1200	IR	1.230	11	LANDIS, IED
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NW1/4 NW1/4	1301	IR	0.260	11	DUNN, DON R
NW1/4 NW1/4	402	IR	1.000	11	SEITZ, PETER
SW1/4 SW1/4	1700	IR	1.000	11	POPISH, CHARLES
NE1/4 SE1/4	400	IR	2.500	11	REDMOND, CITY OF
NE1/4 SE1/4	400	PND	10.500	11	REDMOND, CITY OF
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1601	IR	0.500	11	· ·
NW1/4 SE1/4	1900	IR			DESCHUTES CO FAIR BOARD
			8.900	11	DESCHUTES CO FAIR BOARD
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	900	IR IR	8.300	11	DESCHUTES CO FAIR BOARD
SW¼ SE¼	300	IR	8.300	11	DESCHUTES CO FAIR BOARD
SE¼ SE¼	100	IR	2.200	11	JUNIPER GOLF CLUB
				Section 16	
NE¼ NE¼	100	IR	1.500	11	REDMOND SCHOOL DISTRICT
NE¼ NE¼	101	IR	27.000	11	REDMOND SCHOOL DISTRICT
NW¼ NE¼	100	IR	0.300	11	ALLEN, SUSAN E
NW¼ NE¼	200	IR	4.700	11	CHURCH OF THE NAZARENE
NW1/4 NE1/4	300	IR	2.500	11	FREEMAN, PHILIP H
NW1/4 NE1/4	400	IR	1.500	11	CORK, NORMAN
NW¼ NE¼	500	IR	1.700	11	CORK, NORMAN
SE¼ NE¼	1502	IR	17.500	11	REDMOND SCHOOL DISTRICT
SE¼ NE¼	1600	IR	1.300	11	
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	1000	IR	0.540		TOEVS, DR SAMUEL
				11	DAWSON, JAMES B
NE¼ NW¼	1001	IR IR	0.400	11	STRATTON, CLARENCE H
NE¼ NW¼	101	IR IR	2.500	11	BARNUM, TOMMY J
NE¼ NW¼	1100	IR	0.650	11	MULL, ROBERT
NE¼ NW¼	200	IR	1.000	11	EVES, DONALD
NE¼ NW¼	300	IR	2.000	11	DAHL, MRS VICKI
NE¼ NW¼	400	IR	3.000	11	HAMBY, ARCHIE
NE¼ NW¼	500	IR	2.000	11	PAYTON, ALBERT
NE¼ NW¼	700	IR	1.000	11	MISNER, BRIAN L
NE¼ NW¼	800	IR	16.000	11	IVANCOVICH, IVAN JR
NW¼ NW¼	1300	IR	18.000	11	HAWKINS, EARL
NW1/4 NW1/4	1302	IR	6.700	11	KRALY, KEVIN A
NW1/4 NW1/4	1304	IR	2.000	11	SCORZA, RICHARD A
NW1/4 NW1/4	1306	IR	1.000	11	MENG, MRS EVELYN
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	4.000	11	JOHNNIE, ROBERT
NW1/4 NW1/4		IR	0.300	11	MILLER, STANLEY GILBERT
SW1/4 NW1/4		IR	4.740	11	WHITAKER, ELBERT
SW1/4 NW1/4		IR	2.000	11	MARTIN, A W
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	5.200	11	WHITAKER, ELBERT
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	2900	IR	10.600	11	JONAS, WAYNE
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR			•
			2.330	11	JONES, THOMAS J
	2904	IR IB	1.670	11	MILLS, E.R. 'MAX'
	2910	IR ID	15.700	11	MILLS, E.R. 'MAX'
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR ID	4.400	11	JONAS, WAYNE
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	35.000	11	MILLS, E.R. 'MAX'
SW1/4 SW1/4		IR	33.600	11	JONAS, WAYNE
SE¼ SW¼	2900	IR	5.100	11	JONAS, WAYNE
SE¼ SW¼	2907	IR	26.400	11	CENTRAL CASCADE CORP.
NE¼ SE¼	1500	IR	24.000	11	NOLAN, FRANKLIN
NW¼ SE¼	2905	IR	8.700	11	CLARK, DENNIS
NW¼ SE¼	2906	IR	3.800	11	CLARK, DENNIS
SW1/4 SE1/4	2901	IR	11.000	11	ARLIS TRUST
SW1/4 SE1/4	2905	IR	6.600	11	CLARK, DENNIS
SW1/4 SE1/4	2906	IR	6.930	11	CLARK, DENNIS
SW1/4 SE1/4	3000	IR	1.600	11	ARLIS TRUST
SW1/4 SE1/4	3001	IR	2.400	11	ARLIS TRUST
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	3100	IR	34.610	11	FIELDS, THOMAS REVOC.TRUST
SE14 SE14	3100	PND	0.800	11	FIELDS, THOMAS REVOC.TRUST
DE/4 DE/4	2100	דאט	0.000	Section 17	TILLUS, THOMAS REVUCTRUST
				Section 17	

NE¼ NE¼ 101	IR 3	.000	1	KNORR, DALE
NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 102	IR 1	.000 1	1	BLAIR, RONALD J
NE¼ NE¼ 104	IR C	.820	1	BLAIR, DEAN
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 201	IR 7	1.000		RICHARDSON, PATRICIA MAE
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 300	IR 6	.000		WEILAGE, JOYCE A
NW¼ NE¼ 400		.030 1		HALE, DELBERT
NW¼ NE¼ 401		.970		WEILAGE, JOYCE A
NW¼ NE¼ 500				-
				BRITT, RODNEY D
NW¼ NE¼ 600		.500 1		KRISTENSEN, PAUL A
NW¼ NE¼ 601		.000 1		ERB, STEPHEN R
SW¼ NE¼ 1800		.350		RUSSELL, JOSEPH L
NE¼ NW¼ 1001	IR 3	.800	1	POESKE, JAMES
NE¼ NW¼ 1002	IR 6	5.500	1	MORRISON, PHILLIP
NE¼ NW¼ 1003	IR 5	.000	1	MORRISON, JAY P
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 700	IR 4	.000 1		JOHNSON, DONALD R
NE¼ NW¼ 800		.700 1		GRAVES, STEVEN M
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 900		.500 1		MARSHALL, URAL
NW¼ NW¼ 1100		7.000		•
				BORCHARD, WILLIAM E
SW¼ NW¼ 1200		.000 1		HARTLEY, JACK W
SW¼ NW¼ 1201		.800 1		O'BERRY, BARBARA J
SW¼ NW¼ 1202		.820 1		ROSS, KEITH R
SW¼ NW¼ 2400	IR 0	.300	1	CLARK, ROBERT
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1300	IR 6	.200	1	TROUTMAN, A D
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1400	IR 0	.800	1	GOULD, RICHARD &
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1500	IR 3	.100 1		FLINT, RUSSELL
SE¼ NW¼ 1600		.400 1		FLINT, RUSSELL
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1700		.500 1		TROUTMAN INVESTMENT CO
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1701		.300 1		TROUTMAN INVESTMENT CO
SE <sup>1</sup> /4 NW <sup>1</sup> /4 2400		.900 1		CLARK, ROBERT
				•
NE¼ SW¼ 100		.440 1		MOORE, TERRY L
NE¼ SW¼ 101		.500 1		JARMS, ALDEN H
NE¼ SW¼ 102		.500 1		GOAD, DARRELL G
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 200		.900 1		BUDKE, PATRICK J
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 200	PND 0	.100 1		BUDKE, PATRICK J
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2400	IR 1	.300	1	CLARK, ROBERT
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 301	IR 5	.000	1	COLLINS, JOHN
NE1/4 SW1/4 400	IR 3	.800 1	1	SPAULDING, WILLIAM
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 500		.200 1		SPAULDING, WILLIAM
NE¼ SW¼ 600		.000 1		LUNSFORD, ROBERT
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2400		.900 1		CLARK, ROBERT
	110 19		1	
		.000	1	•
SW1/4 SW1/4 2500	IR 11			BAPTISTA, MANUEL P
SW1/4 SW1/4 2501	IR 11 IR 16	.000 1	1	BAPTISTA, MANUEL P EVERY, CHARLES R
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2501 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2600	IR 11 IR 16 IR 1	.000 1 .000 1	1 1	BAPTISTA, MANUEL P EVERY, CHARLES R CARPENTER, MICHAEL L
SW¼ SW¼ 2501 SW¼ SW¼ 2600 SE¼ SW¼ 2301	IR 11 IR 16 IR 1 IR 7	1.000 1 1.000 1 1.100 1	1 1 1	BAPTISTA, MANUEL P EVERY, CHARLES R CARPENTER, MICHAEL L JININGS, RONALD W
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2501 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2600 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2301 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2303	IR 11 IR 16 IR 1 IR 7 IR 7	.000 1 .000 1 .100 1 .900 1	1 1 1 1	BAPTISTA, MANUEL P EVERY, CHARLES R CARPENTER, MICHAEL L JININGS, RONALD W MORGAN, VERNON
SW¼ SW¼ 2501 SW¼ SW¼ 2600 SE¼ SW¼ 2301	IR 11 IR 16 IR 1 IR 7 IR 7	1.000 1 1.000 1 1.100 1	1 1 1 1	BAPTISTA, MANUEL P EVERY, CHARLES R CARPENTER, MICHAEL L JININGS, RONALD W
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2501 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2600 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2301 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 2303	IR 11 IR 16 IR 1 IR 7 IR 7 IR 2 IR 2	.000 1 .000 1 .100 1 .900 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BAPTISTA, MANUEL P EVERY, CHARLES R CARPENTER, MICHAEL L JININGS, RONALD W MORGAN, VERNON
SW¼ SW¼ 2501 SW¼ SW¼ 2600 SE¼ SW¼ 2301 SE¼ SW¼ 2303 SE¼ SW¼ 2309	IR 11 IR 16 IR 1 IR 7 IR 7 IR 2 IR 2 IR 5	1.000     1       1.000     1       1.100     1       1.100     1	1 1 1 1 1 1	BAPTISTA, MANUEL P EVERY, CHARLES R CARPENTER, MICHAEL L JININGS, RONALD W MORGAN, VERNON MORGAN, VERNON
SW¼ SW¼ 2501 SW¼ SW¼ 2600 SE¼ SW¼ 2301 SE¼ SW¼ 2303 SE¼ SW¼ 2309 SE¼ SW¼ 2700 SE¼ SW¼ 2701	IR 11 IR 16 IR 1 IR 7 IR 2 IR 2 IR 2 IR 2 IR 5 IR 5	1.000     1       1.000     1       1.100     1       1.900     1       1.000     1       1.900     1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BAPTISTA, MANUEL P EVERY, CHARLES R CARPENTER, MICHAEL L JININGS, RONALD W MORGAN, VERNON MORGAN, VERNON PARK, LINDA A JININGS, RONALD W
SW¼ SW¼ 2501 SW¼ SW¼ 2600 SE¼ SW¼ 2301 SE¼ SW¼ 2303 SE¼ SW¼ 2309 SE¼ SW¼ 2700 SE¼ SW¼ 2701 SE¼ SW¼ 2701	IR 11 IR 16 IR 17 IR 2	1.000       1         1.000       1         1.100       1         1.100       1         1.000       1         1.900       1         1.000       1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BAPTISTA, MANUEL P EVERY, CHARLES R CARPENTER, MICHAEL L JININGS, RONALD W MORGAN, VERNON MORGAN, VERNON PARK, LINDA A JININGS, RONALD W MCKAY, LOUISE
SW¼ SW¼ 2501 SW¼ SW¼ 2600 SE¼ SW¼ 2301 SE¼ SW¼ 2303 SE¼ SW¼ 2309 SE¼ SW¼ 2700 SE¼ SW¼ 2701 SE¼ SW¼ 2703 SE¼ SW¼ 2703 SE¼ SW¼ 2706	IR 11 IR 16 IR 16 IR 17 IR 22 IR 22 IR 55 IR 22 IR 33	1.000     1       1.000     1       1.100     1       1.900     1       1.000     1       1.000     1       1.000     1       1.000     1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BAPTISTA, MANUEL P EVERY, CHARLES R CARPENTER, MICHAEL L JININGS, RONALD W MORGAN, VERNON MORGAN, VERNON PARK, LINDA A JININGS, RONALD W MCKAY, LOUISE WILSON, LAWRENCE C ET AL
SW¼ SW¼       2501         SW¼ SW¼       2600         SE¼ SW¼       2301         SE¼ SW¼       2303         SE¼ SW¼       2309         SE¼ SW¼       2700         SE¼ SW¼       2701         SE¼ SW¼       2703         SE¼ SW¼       2706         SE¼ SW¼       2707	IR 11 IR 16 IR 17 IR 2 IR 2 IR 2 IR 2 IR 3 IR 2 IR 2 IR 2 IR 2 IR 2 IR 2	1.000     1       1.000     1       1.100     1       1.900     1       1.000     1       1.900     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BAPTISTA, MANUEL P EVERY, CHARLES R CARPENTER, MICHAEL L JININGS, RONALD W MORGAN, VERNON MORGAN, VERNON PARK, LINDA A JININGS, RONALD W MCKAY, LOUISE WILSON, LAWRENCE C ET AL LANGLAND, DAVID G
SW¼ SW¼ 2501 SW¼ SW¼ 2600 SE¼ SW¼ 2301 SE¼ SW¼ 2303 SE¼ SW¼ 2309 SE¼ SW¼ 2700 SE¼ SW¼ 2701 SE¼ SW¼ 2703 SE¼ SW¼ 2706 SE¼ SW¼ 2706 SE¼ SW¼ 2707 NE¼ SE¼ 1900	IR 11 IR 16 IR 16 IR 17 IR 22 IR 22 IR 55 IR 22 IR 22 IR 33 IR 22 IR 33 IR 22 IR 38	1.000       1         1.000       1         1.100       1         1.900       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BAPTISTA, MANUEL P EVERY, CHARLES R CARPENTER, MICHAEL L JININGS, RONALD W MORGAN, VERNON MORGAN, VERNON PARK, LINDA A JININGS, RONALD W MCKAY, LOUISE WILSON, LAWRENCE C ET AL LANGLAND, DAVID G JONAS, WAYNE
SW¼ SW¼ 2501 SW¼ SW¼ 2600 SE¼ SW¼ 2301 SE¼ SW¼ 2303 SE¼ SW¼ 2700 SE¼ SW¼ 2700 SE¼ SW¼ 2701 SE¼ SW¼ 2703 SE¼ SW¼ 2706 SE¼ SW¼ 2706 SE¼ SW¼ 2707 NE¼ SE¼ 1900 NE¼ SE¼ 1901	IR 11 IR 16 IR 16 IR 17 IR 22 IR 22 IR 22 IR 31 IR 22 IR 33 IR 22 IR 34 IR 44	1.000 1 1.000 1 1.100 1 1.900 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1	1	BAPTISTA, MANUEL P EVERY, CHARLES R CARPENTER, MICHAEL L JININGS, RONALD W MORGAN, VERNON MORGAN, VERNON PARK, LINDA A JININGS, RONALD W MCKAY, LOUISE WILSON, LAWRENCE C ET AL LANGLAND, DAVID G JONAS, WAYNE FIRST CHRISTIAN CHURCH
SW¼ SW¼ 2501 SW¼ SW¼ 2600 SE¼ SW¼ 2301 SE¼ SW¼ 2303 SE¼ SW¼ 2700 SE¼ SW¼ 2700 SE¼ SW¼ 2701 SE¼ SW¼ 2703 SE¼ SW¼ 2706 SE¼ SW¼ 2706 SE¼ SW¼ 2707 NE¼ SE¼ 1900 NE¼ SE¼ 1901 NE¼ SE¼ 2000	IR 11 IR 16 IR 16 IR 17 IR 22 IR 24 IR 31 IR 22 IR 31 IR 32 IR 32 IR 32 IR 33 IR 32 IR 34 IR 10	1.000     1       1.000     1       1.100     1       1.900     1       1.000     1       1.900     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1       1.000     1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BAPTISTA, MANUEL P EVERY, CHARLES R CARPENTER, MICHAEL L JININGS, RONALD W MORGAN, VERNON MORGAN, VERNON PARK, LINDA A JININGS, RONALD W MCKAY, LOUISE WILSON, LAWRENCE C ET AL LANGLAND, DAVID G JONAS, WAYNE FIRST CHRISTIAN CHURCH ALEXANDER, BIDWELL
SW¼ SW¼ 2501 SW¼ SW¼ 2600 SE¼ SW¼ 2301 SE¼ SW¼ 2303 SE¼ SW¼ 2700 SE¼ SW¼ 2700 SE¼ SW¼ 2701 SE¼ SW¼ 2703 SE¼ SW¼ 2706 SE¼ SW¼ 2706 SE¼ SW¼ 2707 NE¼ SE¼ 1900 NE¼ SE¼ 1901 NE¼ SE¼ 2000 NW¼ SE¼ 2100	IR 11 IR 16 IR 16 IR 17 IR 22 IR 22 IR 22 IR 33 IR 22 IR 33 IR 22 IR 34 IR 10 IR 16	0.000       1         0.000       1         0.100       1         0.900       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.280       1	1	BAPTISTA, MANUEL P EVERY, CHARLES R CARPENTER, MICHAEL L JININGS, RONALD W MORGAN, VERNON MORGAN, VERNON PARK, LINDA A JININGS, RONALD W MCKAY, LOUISE WILSON, LAWRENCE C ET AL LANGLAND, DAVID G JONAS, WAYNE FIRST CHRISTIAN CHURCH ALEXANDER, BIDWELL HALL, TOM
SW¼ SW¼ 2501 SW¼ SW¼ 2600 SE¼ SW¼ 2301 SE¼ SW¼ 2303 SE¼ SW¼ 2700 SE¼ SW¼ 2700 SE¼ SW¼ 2701 SE¼ SW¼ 2703 SE¼ SW¼ 2706 SE¼ SW¼ 2706 SE¼ SW¼ 2707 NE¼ SE¼ 1900 NE¼ SE¼ 1901 NE¼ SE¼ 2000 NW¼ SE¼ 2100 NW¼ SE¼ 2101	IR 11 IR 16 IR 16 IR 17 IR 22 IR 22 IR 22 IR 22 IR 31 IR 22 IR 31 IR 22 IR 31 IR 32 IR 32 IR 32 IR 33 IR 32 IR 34 IR 44 IR 10 IR 66 IR 12	1.000 1 1.000 1 1.100 1 1.900 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1 1.000 1	1	BAPTISTA, MANUEL P EVERY, CHARLES R CARPENTER, MICHAEL L JININGS, RONALD W MORGAN, VERNON MORGAN, VERNON PARK, LINDA A JININGS, RONALD W MCKAY, LOUISE WILSON, LAWRENCE C ET AL LANGLAND, DAVID G JONAS, WAYNE FIRST CHRISTIAN CHURCH ALEXANDER, BIDWELL HALL, TOM PERRY, MICHAEL R
SW¼ SW¼ 2501 SW¼ SW¼ 2600 SE¼ SW¼ 2301 SE¼ SW¼ 2303 SE¼ SW¼ 2309 SE¼ SW¼ 2700 SE¼ SW¼ 2701 SE¼ SW¼ 2701 SE¼ SW¼ 2703 SE¼ SW¼ 2706 SE¼ SW¼ 2706 SE¼ SW¼ 2707 NE¼ SE¼ 1900 NE¼ SE¼ 1901 NE¼ SE¼ 1901 NE¼ SE¼ 2000 NW¼ SE¼ 2100 NW¼ SE¼ 2101 NW¼ SE¼ 2102	IR 11 IR 16 IR 16 IR 17 IR 22 IR 22 IR 22 IR 22 IR 22 IR 22 IR 31 IR 22 IR 31 IR 32 IR 32 IR 32 IR 32 IR 32 IR 33 IR 32 IR 32 IR 33 IR 32 IR 32 IR 33 IR 34 IR 36 IR 36 IR 37 IR 38	.000       1         .000       1         .100       1         .900       1         .000       1         .900       1         .000       1         .000       1         .000       1         .000       1         .500       1         .500       1         .380       1         .070       1	1	BAPTISTA, MANUEL P EVERY, CHARLES R CARPENTER, MICHAEL L JININGS, RONALD W MORGAN, VERNON MORGAN, VERNON PARK, LINDA A JININGS, RONALD W MCKAY, LOUISE WILSON, LAWRENCE C ET AL LANGLAND, DAVID G JONAS, WAYNE FIRST CHRISTIAN CHURCH ALEXANDER, BIDWELL HALL, TOM PERRY, MICHAEL R RENZ, MICHAEL M
SW¼ SW¼ 2501 SW¼ SW¼ 2600 SE¼ SW¼ 2301 SE¼ SW¼ 2303 SE¼ SW¼ 2700 SE¼ SW¼ 2700 SE¼ SW¼ 2701 SE¼ SW¼ 2703 SE¼ SW¼ 2706 SE¼ SW¼ 2706 SE¼ SW¼ 2707 NE¼ SE¼ 1900 NE¼ SE¼ 1901 NE¼ SE¼ 1901 NE¼ SE¼ 2000 NW¼ SE¼ 2100 NW¼ SE¼ 2101 NW¼ SE¼ 2102 SW¼ SE¼ 2800	IR 11 IR 16 IR 16 IR 17 IR 22 IR 22 IR 22 IR 18 IR 10 IR 18 IR 10 IR 18 IR 10 IR 18	0.000       1         0.000       1         0.100       1         0.900       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1         0.000       1	1	BAPTISTA, MANUEL P EVERY, CHARLES R CARPENTER, MICHAEL L JININGS, RONALD W MORGAN, VERNON MORGAN, VERNON PARK, LINDA A JININGS, RONALD W MCKAY, LOUISE WILSON, LAWRENCE C ET AL LANGLAND, DAVID G JONAS, WAYNE FIRST CHRISTIAN CHURCH ALEXANDER, BIDWELL HALL, TOM PERRY, MICHAEL R RENZ, MICHAEL M CARNAHAN, J MICHAEL
SW¼ SW¼ 2501 SW¼ SW¼ 2600 SE¼ SW¼ 2301 SE¼ SW¼ 2303 SE¼ SW¼ 2309 SE¼ SW¼ 2700 SE¼ SW¼ 2701 SE¼ SW¼ 2701 SE¼ SW¼ 2703 SE¼ SW¼ 2706 SE¼ SW¼ 2706 SE¼ SW¼ 2707 NE¼ SE¼ 1900 NE¼ SE¼ 1901 NE¼ SE¼ 1901 NE¼ SE¼ 2000 NW¼ SE¼ 2100 NW¼ SE¼ 2101 NW¼ SE¼ 2102	IR 11 IR 16 IR 16 IR 17 IR 22 IR 22 IR 22 IR 18 IR 10 IR 18 IR 10 IR 18 IR 10 IR 18	1.000       1         1.000       1         1.100       1         1.900       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1         1.000       1	1	BAPTISTA, MANUEL P EVERY, CHARLES R CARPENTER, MICHAEL L JININGS, RONALD W MORGAN, VERNON MORGAN, VERNON PARK, LINDA A JININGS, RONALD W MCKAY, LOUISE WILSON, LAWRENCE C ET AL LANGLAND, DAVID G JONAS, WAYNE FIRST CHRISTIAN CHURCH ALEXANDER, BIDWELL HALL, TOM PERRY, MICHAEL R RENZ, MICHAEL M

SW1/4 SE1/4	2802	IR	3.740	11	HENDRICKS, LORRAINE
SW1/4 SE1/4	2803	IR	1.700	11	BOWMAN, HARLEY
SW1/4 SE1/4	2804	IR	3.000	11	DIEFENDERFER, JAMES A
SW1/4 SE1/4	2805	IR	4.000	11	CROTWELL, CLINTON
SW1/4 SE1/4	2806	IR	4.000	11	HOLCOMB, JOHN F
SW1/4 SE1/4	2807	IR	8.000	11	DIEFENDERFER, JAMES A
SW¼ SE¼	2809	IR	0.260	11	HENDRICKS, LORRAINE
SE¼ SE¼	1900	IR	13.500	11	JONAS, WAYNE
SE¼ SE¼	2900	IR	16.000	11	LINE, ALLYN
				Section 18	
NE¼ NE¼	703	IR	15.670	11	TRENHOLM, ROBERTA ET AL
NE¼ NE¼	705	IR	12.830	11	GALE, BILLIE W
NE¼ NE¼	706	IR	3.800	11	WILSON, MARTIN L
NW¼ NE¼	100	IR ID	31.000	11	WELCH, MRS T R
SW¼ NE¼	600	IR ID	2.600	11	PALMER, RICHARD R
SW¼ NE¼	704	IR ID	12.000	11	KNOX, GARY W
SE¼ NE¼	702	IR ID	16.000	11	KINYON, GEORGE
SE¼ NE¼	800	IR	10.800	11	GREEN, AUBRY O ET AL
SE¼ NE¼	800	PND	0.200	11	GREEN, AUBRY O ET AL
NE¼ NW¼	200	IR ID	3.000	11	SAGE, LYNN
NE¼ NW¼	300	IR ID	3.500	11	LATTA, CLYDE
NE¼ NW¼	503	IR	25.500	11	SAGE, LYNN
NW¼ NW¼		IR	20.000	11	MARTIN, WALTER
SW1/4 NW1/4		IR ID	3.500	11	HULL, GARY
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR ID	32.200	11	DORTON, LLYOD A
SE¼ NW¼	1002	IR IB	0.600	11	RUTLEDGE, WESLEY
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	500 501	IR ID	7.500	11	HULL, GARY
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	501	IR IB	1.000	11	SIMPSON, RICHARD S
SE¼ NW¼	504	IR IB	3.300	11	DORTON, LLYOD A
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	600	IR ID	1.400	11	PALMER, RICHARD R
SE¼ NW¼ NE¼ SW¼	701 1000	IR IR	4.000	11 11	JARVIS, LYLE
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1000	IR	1.000 1.600	11	TURNAGE, JAY C
NE¼ SW¼	1001	IR	0.400	11	ROSEBROOK, MELVIN R
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1002	IR	2.000	11	RUTLEDGE, WESLEY RASMUSSEN, ROBERT T
NE¼ SW¼	1003	IR	1.000	11	FLEWELLING, TIMOTHY W
NE'4 SW'4	1004	IR	0.200	11	VARCOE, RONALD E
NW¼ SW¼		IR	0.800	11	WM. & NORMA GRAVES TRUST
NW¼ SW¼		IR	6.600	11	NELSON, RONALD O
NW¼ SW¼		IR	3.600	11	WM. & NORMA GRAVES TRUST
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	4.400	11	WM. & NORMA GRAVES TRUST
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		PND	1.200	11	CENTRAL OREGON IRRIGATION
NW¼ SW¼		IR	4.000	11	NEEL, JUDY D
SW1/4 SW1/4		IR	3.600	11	WM. & NORMA GRAVES TRUST
SW1/4 SW1/4		IR	15.000	11	HAMMOND, VIOLET
~ /4				Section 19	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				2 2 2 4 1 2 2 2	
NE¼ NE¼	1400	IR	1.500	11	JOHNSON, MARTIN
NE1/4 NE1/4	2100	IR	3.750	11	ALLEN, JAMES
NE1/4 NE1/4	2202	IR	0.400	11	STAFFORD, KATHERINE P
SW¼ NE¼	1300	IR	0.350	11	DOUGHERTY, MICHAEL L
SW¼ NE¼	1500	IR	0.400	11	MANLEY, JAMES P
SW1/4 NE1/4	1600	IR	0.800	11	BANNON, RHONDA D
SW1/4 NE1/4	1700	IR	0.650	11	BENDER, F ROBERT
SW1/4 NE1/4	1800	IR	0.700	11	LARKIN, THIMOTHY D
SW1/4 NE1/4	1900	IR	0.650	11	GRIMES, WAYNE
SW1/4 NE1/4	2000	IR	0.500	11	DOTSON, GARY L
SW1/4 NE1/4	2100	IR	0.700	11	MCDONALD, GREGORY S
SW1/4 NE1/4	2200	IR	0.700	11	BOWMAN, AARON T ET AL
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				-	

SW1/4 NE1/4 2	2700	IR	0.800	11	HINTON, JAMES
SW¼ NE¼ 2	2800	IR	0.800	11	BYRAM, ROBERT
SW1/4 NE1/4 2	2900	IR	0.800	11	GALLOWWAY, JAMES W
SW1/4 NE1/4 3	3000	IR	0.350	11	GLOVER, JAMES
SW¼ NE¼ 3	3400	IR	0.800	11	SCHULT, DALE
SW1/4 NE1/4 3	3500	IR	0.800	11	EARP, GROVER
SW1/4 NE1/4 3	3700	IR	0.380	11	RINGGENBERG, HAROLD G
SW1/4 NE1/4 4	1200	IR	0.300	11	DOOLEY, WESLEY J
SE1/4 NE1/4 3	3500	IR	1.000	11	ROTH, JOHN CARLTON
SE1/4 NE1/4 4	100	IR	4.650	11	POOL, ODIE
SE1/4 NE1/4 5	100	IR	0.360	11	HATHAWAY, RONALD E
SE1/4 NE1/4 5	500	IR	1.500	11	YOUNG, VERN
SE1/4 NE1/4 5	600	IR	2.000	11	NEUSCHWANDER, DAVID M
NW¼ NW¼	201	IR	8.500	11	WATSON, ROBERT H & VIRGINIA
NW¼ NW¼	204	IR	0.200	11	WATSON, ROBERT H & VIRGINIA
SW¼ NW¼ 4	1000	IR	5.000	11	HAYDEN ENTERPRISES, INC
SE1/4 NW1/4 3	3100	IR	1.000	11	REDMOND, CITY OF
NE1/4 SW1/4	101	IR	1.250	11	ETTER, RANDALL LEE
NE1/4 SW1/4	102	IR	2.100	11	EASLON, CHARLES W
NE¼ SW¼ 4	800	IR	0.880	11	KRIBS, RICHARD
NE¼ SW¼ 4	900	IR	0.500	11	TRETHEWAY, DAVID M
NE14 SW14 5	000	IR	0.500	11	PILLING, JONATHAN P
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 5	100	IR	1.000	11	TASSIE, ARTHUR
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 5	300	IR	0.500	11	STURZA, EVAN
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 5	400	IR	0.500	11	DIETZ, DEWEY
NE¼ SW¼ 6	000	IR	0.900	11	SAYLER, GREGORY C
NE¼ SW¼ 6	400	IR	2.000	11	STEARNS, GERRY M
NE¼ SW¼ 6	500	IR	1.900	11	PRIAN, JOHN L
NW¼ SW¼ 1	002	IR	2.000	11	LOVING, MARGARET E
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1	800	IR	2.000	11	DRAHN, CURTIS
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1	900	IR	1.000	11	WHISENHUNT, SARAH J
NE¼ SE¼ 1	200	IR	1.000	11	RANK, JEFF W
NE¼ SE¼ 1	300	IR	1.000	11	HALLADEY, PAMELA L
NE¼ SE¼ 1	400	IR	2.280	11	MONG, JOHN R
NE¼ SE¼ 1	500	IR	0.400	11	DEPATIE, DAVID H
NE¼ SE¼ 1	501	IR	2.330	11	DEPATIE, DAVID H
NE¼ SE¼ 1	700	IR	0.600	11	ELROD, WILLIAM E
NE¼ SE¼ 3	300	IR	1.550	11	LANTZ, VALE
NE¼ SE¼ 3	500	IR	0.450	11	TOMSETH, PETER E
NE¼ SE¼ 3	501	IR	0.250	11	TOMSETH, PETER E
NE¼ SE¼ 3	801	IR	0.150	11	LITCHY, LANCE & SADEWIC, C.
NW¼ SE¼ 2	400	IR	0.800	11	KUPER, ANTHONY
NW¼ SE¼ 3	300	IR	0.500	11	SHORT, SARAH L
NW¼ SE¼ 4	200	IR	0.400	11	HOFFMAN, JOHN A
NW¼ SE¼ 4	300	IR	0.500	11	RIVARD, HAROLD
NW¼ SE¼ 4	400	IR	0.250	11	NELSON, JOHN R
NW¼ SE¼ 4	500	IR	0.250	11	MCCARTHY, JOHN D
NW¼ SE¼ 4	900	IR	0.180	11	COOLEY, MICHAEL A
NW¼ SE¼ 5	200	IR	0.500	11	GIBSON, CLOYD
NW¼ SE¼ 5	300	IR	0.300	11	STILLWELL, BRET H
NW¼ SE¼ 5	800	IR	0.150	11	LESKO, MARK
NW¼ SE¼ 6	000	IR	0.150	11	LESKO, MARK
NW¼ SE¼ 6	100	IR	1.500	11	JACKSON, DANIEL W
NW¼ SE¼ 6	200	IR	0.400	11	EVAN, MATTHEW D
NW¼ SE¼ 6	400	IR	0.500	11	PRESCOTT, MIKE D.
SW1/4 SE1/4 6	000	IR	3.500	11	CLARK, DARWIN
SW1/4 SE1/4 8	300	IR	0.300	11	STEINHOFF, ANDREW L
	100		0.750	11	HYLTON, ROSS
SE1/4 SE1/4	300	IR	0.630	11	MYERS, KENNETH D
SE1/4 SE1/4	500	IR	0.500	11	TURNER, MICHAEL A

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SE¼ SE¼	600	IR	0.720	11	MADDEN, PATRICK
SE1/4 SE1/4	602	IR	0.110	11	MADDEN, PATRICK
SE1/4 SE1/4	700	IR	1.300	11	JOHNSON, GLADDEN B
				Section 20	
SW1/4 NW1/4	200	IR	0.250	11	LARUSSO, THOMAS J
	2001	IR	0.600	11	STEELE, FRED
SW1/4 NW1/4		IR	0.350	11	LARUSSO, THOMAS J
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	0.250	11	LARUSSO, THOMAS J
SW1/4 NW1/4	300	IR	0.250	11	LARUSSO, THOMAS J
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	1.000	11	SMITH, CLEO
SW1/4 NW1/4		IR	0.500	11	MANSFIELD, GEORGE
	2000	IR	0.150	11	STEELE, FRED
	2001	IR	0.900	11	STEELE, FRED
NW1/4 SW1/4	1200	IR	0.700	11	MILLIGAN, ROBERT C
SW1/4 SW1/4	2300	IR	0.500	11	MCPHERSONFAMILY, WH, INC
				Section 21	
NW¹⁄4 NW¹⁄4	1500	IR	6.400	11	JUNIPER GOLF CLUB
			51,755	Section 22	torm Ert coer chop
				2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	
NE1/4 NE1/4	3400	IR	0.370	11	MCLAREN, NANALINE
NW1/4 NE1/4	1100	IR	0.550	11	BRILL, DARRELL J
NW¼ NE¼	1400	IR	0.700	11	JONES, JESSE LEE
NW¼ NE¼	1500	IR	0.750	11	FREE METHODIST CHURCH
SW¼ NE¼	300	IR	1.000	11	THE GREENS AT REDMOND
SW1/4 NE1/4	310	IR	0.200	11	KNOX, WALTER
SW¼ NE¼	320	IR	2.000	11	THE GREENS AT REDMOND
SW¼ NE¼	320	PND	1.300	11	THE GREENS AT REDMOND
SW¼ NE¼	321	IR	2.200	11	THE GREENS AT REDMOND
SW¼ NE¼	321	PND	3.000	11	THE GREENS AT REDMOND
NE¼ NW¼	100	IR	0.750	11	CALIF. ORE. BROADCASTING
NE¼ NW¼	101	IR	4.400	11	BROOKHART, RONALD C
NE¼ NW¼	102	IR	3.800	11	BROOKHART, RONALD C
NE¼ NW¼	105	IR	12.000	11	FUNKNER, VIRGINIA
NE¼ NW¼	200	IR	9.100	11	REDMOND, CITY OF
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	200	IR	3.100	11	REDMOND, CITY OF
SE1/4 NW1/4	200	IR	0.900	11	REDMOND, CITY OF
SE¼ NW¼	320	IR	0.300	11	THE GREENS AT REDMOND
SE¼ NW¼	321	IR	0.400	11	THE GREENS AT REDMOND
SE1/4 NW1/4	500	IR	3.100	11	THE GREENS AT REDMOND
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	321	IR	0.200	11	THE GREENS AT REDMOND
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	500	IR	15.800	11	THE GREENS AT REDMOND
NE¼ SW¼	500	PND	3.000	11	THE GREENS AT REDMOND
	1419	IR	0.400	11	KIMMEL, DAVID L
NW¼ SW¼	500	IR	1.800	11	THE GREENS AT REDMOND
NW¼ SW¼	500	PND	1.400	11	THE GREENS AT REDMOND
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	703	IR	1.500	11	BEACH, CLIFFORD H
NW¼ SW¼	704	IR	5.500	11	KIMMEL, DAVID L
NW¼ SE¼	400	IR	6.000	11	HODECKER, JOHN F, ET AL
				Section 29	
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	10.000	11	GARDNER, GRETCHEN E
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	3.000	11	LOY, LANCE A
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	5.600	11	ATKINSON, JUDY TOTTEN
NW¼ NW¼		IR	6.800	11	STIREWALT, JAMES M II
SW1/4 NW1/4		IR	8.000	11	STOKES, DANIEL E
SW1/4 NW1/4		IR	9.000	11	GOLDSMITH, ROBERT
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR ID	9.000	11	WILLIAMS, BILL
SW1/4 NW1/4	1003	IR	9.000	11	RASMUSSEN, ARLON J
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NE¼ SW¼	1401	IR	12.000	11	DAVIS, CRAIG
NE¼ SW¼	1408	IR	2.000	11	TOUCHON, THOMAS
NE¼ SW¼	1411	IR	10.600	11	CUNNINGHAME, BRIAN
NE¼ SW¼	1414	IR	0.400	11	POST, DOUGLAS W
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1100	IR	25.000	11	HANNA, BARBARA J
SW1/4 SW1/4	1300	IR	28.000	11	HALL, CLAYTON C
SE1/4 SW1/4	1500	IR	35.000	11	NORTON, THOMAS E
NE¼ SE¼	1402	IR	4.500	11	BRANNON, KATHERINE N
NE¼ SE¼	1405	IR	2.200	11	BIDWELL, BEN
NE¼ SE¼	1418	IR	1.000	11	EBERHARD, RICHARD F
NE¼ SE¼	1419	IR	3.400	11	KIMMEL, DAVID L
NE¼ SE¼	704	IR	0.700	11	KIMMEL, DAVID L
NW¼ SE¼	1405	IR	0.300	11	BIDWELL, BEN
NW¼ SE¼	1412	IR	11.000	11	CURTIS, WILLIAM &
NW¼ SE¼	1413	IR	9.500	11	KRANCE, ROBERT C ET AL
SW1/4 SE1/4	1500	IR	28.000	11	NORTON, THOMAS E
SW1/4 SE1/4	1501	IR	6.250	11	BAUER, BRENDA K
SE¼ SE¼	1600	IR	1.750	11	ANDERSON, PHILLIP C
SE1/4 SE1/4	1700	IR	28.000	11	ROSEBROOK, CLARENCE
				Section 30	
NE¼ NE¼	1100	IR	22.100	11	ERICKSON, KEITH L
NE¼ NE¼	1100	PND	0.150	11	ERICKSON, KEITH L
NE¼ NE¼	1100	PND	0.300	11	ERICKSON, KEITH L
NW¼ NE¼	1000	IR	2.800	11	CRAYCROFT, DAVID
NW¼ NE¼	1100	IR	13.250	11	ERICKSON, KEITH L
NW¼ NE¼	1200	IR ID	6.740	11	BRILL, DARRELL J
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	1201	IR ID	5.900	11	RUCKER, RONNIE A
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	1202	IR ID	6.660	11	WINSLOW, MARK A
SW¼ NE¼	704	IR	38.000	11	ANDRES, JEROL E ET AL
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	704	IR	16.000	11	ANDRES, JEROL E ET AL
NE¼ NW¼	100	IR ID	11.000	11	MCMAHON, ROBERT W
NE¼ NW¼ NE¼ NW¼	101	IR IB	2.000	11	EDWARDS, CHARLES T
	102	IR IB	8.000	11	SMYTHE, DAVID
NE¼ NW¼	103 103	IR DND	4.800	11	JENKINS, VIOLA
NE¼ NW¼ NE¼ NW¼	103	PND	0.200	11	JENKINS, VIOLA
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR IR	6.200 18.100	11 11	CRAYCROFT, DAVID
NW1/4 NW1/4		IR	6.500	11	HALL, FREDRIC HALL, FREDRIC
NW1/4 NW1/4		IR	3.300	11	HALL, FREDRIC
NW1/4 NW1/4		IR	2.100	11	HALL, FREDRIC
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	205	IR	21.000	11	HALL, FREDRIC
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	700	IR	16.000	11	ANDRES, JEROL E
SE1/4 NW1/4	702	IR	6.300	11	DIX, M L
SE1/4 NW1/4	703	IR	8.500	11	MARJAMA, MARVIN
NE' <sub>4</sub> SW' <sub>4</sub>	306	IR	18.800	11	ANDRES, JEROL E
NE'4 SW'4	600	IR	11.400	11	ANDRES, JEROL E
NE¼ SW¼	601	IR	2.600	11	ANDRES, JEROL E
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	300	IR	1.300	11	LINDSEY, SAMUEL
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	305	IR	4.000	11	MILLS, GRANT E
NW1/4 SW1/4	306	IR	6.600	11	ANDRES, JEROL E
SW1/4 SW1/4	300	IR	3.300	11	LINDSEY, SAMUEL
SW1/4 SW1/4	302	IR	3.000	11	DUNLAP, BONNIE
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	304	IR	1.000	11	DUNLAP, RONNIE
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	400	IR	17.500	11	HOWARD, WILLIAM R
SE'4 SW'4	401	IR	3.000	11	HOWARD, WILLIAM R
SE1/4 SW1/4	402	IR	10.500	11	HOWARD, WILLIAM R
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	705	IR	6.000	11	SMITH, DAVID W
NW1/4 SE1/4	705	IR	39.000	11	SMITH, DAVID W
SW1/4 SE1/4	500	IR	35.000	11	HART, M H TRUSTEE
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SE1/4 SE1/4	500	IR	3.300	11	HART, M H TRUSTEE	
SE¼ SE¼	900	IR	3.000	11	SHANNON, ROBERT L	
				Section 31		
NW¼ NW¼	300	IR	5.000	11	HOPEINGED GUGANI & JEDONEE	
19 97 /4 19 97 /4	300	IK	3.000	11 Section 32	HOFFINGER, SUSAN & JEROME G	
			Township	15 South, Range	13 Fact W M	
			Township	15 South, Range	13 East, W.IVI.	
NW1/4 NE1/4	200	IR	28.500	1	HOUSTON LAKE CO	
SW1/4 NE1/4	200	IR	19.200	1	HOUSTON LAKE CO	
NE1/4 NW1/4	200	IR	14.700	1	HOUSTON LAKE CO	
NW¼ NW¼	300	IR	22.200	1	RACHOR, ELIZABETH ET AL	
SW1/4 NW1/4	300	IR	34.600	1	RACHOR, ELIZABETH ET AL	
SE1/4 NW1/4	200	IR	16.600	1	HOUSTON LAKE CO	
NE¼ SW¼	600	IR	14.400	1	TSCHANTRE, DUKE	
SW1/4 SW1/4	500	IR	8.000	1	BOWEN, TOM	
SW1/4 SW1/4	501	IR	7.500	1	HOGUE, ROY R-FLEMING, PATRICIA	
SW1/4 SW1/4	501	PND	0.500	1	HOGUE, ROY R-FLEMING, PATRICIA	
SW1/4 SW1/4	502	IR	15.500	1	WISE, YVONNE M	
SE1/4 SW1/4	600	IR	26.000	1	TSCHANTRE, DUKE	
NE¼ SE¼	801	IR	18.000	1	PIERSON, ROBERT	
NW¼ SE¼	700	IR	8.000	1	RIZZARDINI, MARCUS B	
NW¼ SE¼	701	IR	26.100	1	TSCHANTRE, DUKE	
SW¼ SE¼	701	IR	16.800	1	TSCHANTRE, DUKE	
SW¼ SE¼	702	IR ID	15.700	1	TSCHANTRE, DUKE	
SE1/4 SE1/4	800	IR	3.000	1	TSCHANTRE, DUKE	
				Section 1		
NE¼ NE¼	100	IR	15.000	1	DACHOD ELIZADETHET AL	
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	200	IR	26.000	1 1	RACHOR, ELIZABETH ET AL CAIN, MILT & SON	
SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	200	IR	40.000	1	CAIN, MILT & SON CAIN, MILT & SON	
SE1/4 NE1/4	101	IR	1.000	1	RACHOR, ELIZABETH ET AL	
SE14 NE14	101	PND	1.700	1	RACHOR, ELIZABETH ET AL	
NE'4 NW'4	300	IR	33.000	1	CAIN, MILT & SON	
NW¼ NW¼		IR	38.570	1	CAIN, MILT & SON	
SW1/4 NW1/4		IR	40.000	1	CAIN, MILT & SON	
SE¼ NW¼	200	IR	25.200	1	CAIN, MILT & SON	
SE1/4 NW1/4	300	IR	0.800	1	CAIN, MILT & SON	
NE1/4 SW1/4	200	IR	6.000	1	CAIN, MILT & SON	
NW1/4 SW1/4	200	IR	39.000	1	CAIN, MILT & SON	
SW1/4 SW1/4	200	IR	26.430	1	CAIN, MILT & SON	
SE1/4 SW1/4	200	IR	20.000	1	CAIN, MILT & SON	
NE¼ SE¼	400	IR	30.000	1	WERTH, GRACE	
NW¼ SE¼	400	IR	32.600	1	WERTH, GRACE	
SW1/4 SE1/4	401	IR	31.800	1	WERTH, GRACE	
SE1/4 SE1/4	402	IR	28.600	1	WERTH, GRACE	
				Section 2		
NE¼ SE¼	2500	IR	21.300	1	FLOYD, LARRY J	
NE¼ SE¼	2500	PND	1.300	1	FLOYD, LARRY J	
SW¼ SE¼	2501	IR	9.800	1	FLOYD, LARRY J	
SE¼ SE¼	2500	IR ID	2.300	1	FLOYD, LARRY J	
SE1/4 SE1/4	2501	IR	31.400	1	FLOYD, LARRY J	
				Section 10		
NE1/4 NE1/4	100	IR	4.000	1	WAMPLER & WERTH	
NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	101	IR	2.600	1 1		
NE¼ NE¼	112	IR	1.800	1	KIMBALL, JOHN R HEIN, MARLEN G	
NE¼ NE¼	113	IR	1.600	1	KOLLEN, ALLEN D	
NW¼ NE¼	100	IR	2.500	1	WAMPLER & WERTH	
1117/41112/4	100	110	2.500	1		
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NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	201	IR	18.700	1	KENNEDY, BOBBY SR
SW1/4 NW1/4	200	IR	13.300	1	
SE¼ NW¼	200	IR			PETERSON, DONALD L
			0.700	1	PETERSON, DONALD L
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	201	IR	7.300	1	KENNEDY, BOBBY SR
SE1/4 SW1/4	107	IR	5.300	1	WAMPLER & WERTH
SE1/4 SE1/4	110	IR	0.500	1	WAMPLER & WERTH
SE1/4 SE1/4	600	IR	2.700	1	WILLIAMS, CHARLES
SE¼ SE¼	600	PND	0.300	1	WILLIAMS, CHARLES
				Section 11	···
				Section 11	
NE¼ NE¼	100	IR	8.000	1	LEONADD LEOT
				1	LEONARD, LEO L
NW¼ NE¼	100	IR	28.200	1	LEONARD, LEO L
SW1/4 NE1/4	400	IR	7.000	1	GAGE, JOHN
SW¼ NE¼	401	IR	17.500	1	LEONARD, LEO L
SE¼ NE¼	401	IR	29.000	1	LEONARD, LEO L
NE¼ NW¼	201	IR	33.500	1	MCCALL, ROBERT C
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	200	IR	35.000	1	SMITH, RONALD
SW1/4 NW1/4	300	IR	1.600	1	ONDER, GEORGE D
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	300	IR	20.400	1	ONDER, GEORGE D
SE¼ NW¼	301	IR IR	2.000	1	COATS, D DALE
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	302	IR	24.000	1	FRENCH, JAMES R
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	700	IR	38.000	1	KIDD, MARY H
SE¼ SW¼	700	IR	24.000	1	KIDD, MARY H
NE¼ SE¼	501	IR	11.000	1	SWINDLE, JAMES C
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	500	IR	23.600	1	GIBSON, AL
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	900	IR	19.000	1	DAVIS, RICHARD K
	, ,		*>*************************************	Section 12	
				occurr 12	
NE¼ NE¼	100	IR	25.700	1	EVANC DANCH
				1	EVANS RANCH
NW¼ NE¼	201	IR	33.900	1	SPROAT, MELINDA J &
SW1/4 NE1/4	202	IR	34.300	1	JAPPERT, ROBERT
SE¼ NE¼	100	IR	30.300	1	EVANS RANCH
NE¼ NW¼	200	IR	31.900	1	DODSON, ANDY J
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	300	IR	36.700	1	BRIDGES, MICHAEL
SW1/4 NW1/4	300	IR	36.300	1	BRIDGES, MICHAEL
SE1/4 NW1/4	200	IR	32.000	1	DODSON, ANDY J
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	400	IR	35.000	1	HILDERBRAND, DENNIS L
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	401	IR	34.500	1	CURRY, DAREN E
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	600	IR	39.000	1	LIVRAN, HENRY
SE¼ SW¼	206	IR	37.000	1	WRIGHT, EDWIN
NE1/4 SE1/4	204	IR	31.600	1	CONNER, PATRICK L, M.D.
NW¼ SE¼	203	IR	34.400	1	BUSH, ALEX M
SW1/4 SE1/4	205	IR	29.700	1	RONALD T. SALTMARSH TRUST
SW1/4 SE1/4	207	IR	6.800	1	RONALD T. SALTMARSH TRUST
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	205	IR	38.000	î	RONALD T. SALTMARSH TRUST
02/4 02/4	200	111	201000	Section 13	ROWED I. STEINMROIT IROUT
				Section 13	
CEL/ NIE1/	102	ID	2 700	1	WAMDIED & WEDTH
SE¼ NE¼	102	IR ID	3.700	1	WAMPLER & WERTH
NE¼ NW¼	201	IR	38.400	1	ROHRER, DANIEL F
NE¼ NW¼	201	PND	1.000	1	ROHRER, DANIEL F
NW¼ NW¼	200	IR	4.000	1	ZAPF, ROBERT M
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	200	PND	1.000	1	ZAPF, ROBERT M
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	201	IR	32.600	1	ROHRER, DANIEL F
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	301	IR	37.800	î	HORNER, JAMES G
SW1/4 NW1/4	301	PND	0.200	1	HORNER, JAMES G
					•
SE¼ NW¼	305	IR ID	39.000	1	HORNER, JAMES G
NE¼ SW¼	405	IR	20.800	1	MEYERS, DAVID B
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	300	IR	0.500	1	MEDEIROS, LOUIS J JR
NW¼ SW¼	302	IR	29.000	1	DEAN, MIKE
SW1/4 SW1/4	400	IR	25.000	1	PETTYJOHN, DEAN
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SW1/4 SW1/4	404	IR	5.500	1	WIEDEN, GLORIA
SW1/4 SW1/4	500	IR	1.500	1	WIEDEN, GLORIA
SE1/4 SW1/4	401	IR	30.000	1	SIMMONS, JERALD N
NE1/4 SE1/4	102	IR	34.600	1	WAMPLER & WERTH
NW1/4 SE1/4	102	IR	23.100	1	WAMPLER & WERTH
SW1/4 SE1/4	600	IR	4.000	1	ROGERS, MICHAEL
SW1/4 SE1/4	601	IR	30.000	1	FITZGERALD, THOMAS J
SE¼ SE¼	700	IR	32.500	1	LIVRAN, HENRY
SE¼ SE¼	701	IR	2.500	1	WELLS, BILLY J
				Section 14	. 2225, 212210
NE¼ NE¼	100	IR	34.000	1	FLOYD, LARRY J
NE¼ NE¼	100	PND	0.500	1	FLOYD, LARRY J
NW1/4 NE1/4	100	IR	30.100	1	FLOYD, LARRY J
SW1/4 NE1/4	300	IR	37.000	1	RADER, JAMES H
SE¼ NE¼	101	IR	26.800	1	FLOYD, LARRY J
SE1/4 NE1/4	101	PND	0.600	1	FLOYD, LARRY J
NE¼ NW¼	100	IR	1.900	1	FLOYD, LARRY J
SW1/4 NW1/4	200	IR	18.100	1	HASKELL, ALBERT W
SE1/4 NW1/4	301	IR	38.000	1	BOURLAND, BEN C
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	302	IR	35.100	1	SCHWERT, MORGAN F
NE¼ SW¼	302	PND	0.900	1	SCHWERT, MORGAN F
NW¼ SW¼	200	IR	27.900	1	HASKELL, ALBERT W
SE1/4 SW1/4	700	IR	24.700	1	MCDONALD, CLIFTON
NE¼ SE¼	500	IR	16.000	1	PRIDAY, RAYMOND
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	400	IR	25.600	1	BAXTER, DONALD J JR
SW1/4 SE1/4	701	IR	30.000	1	HEATH, DR WILLIAM D
SE1/4 SE1/4	600	IR	21.000	1	CRABTREE, ERVIN
SE/4 SE/4	000	110	21.000	Section 15	CIGIDITALE, ERVIIV
				Section 13	
NE¼ NE¼	100	IR	25.300	1	MCDONALD, CLIFTON
SE¼ NE¼	200	IR	4.000	1	HARRISON PROPERTIES, INC
SE¼ NE¼	201	IR	13.750	1	HARRISON PROPERTIES, INC
NE¼ SE¼	300	IR	20.000	1	ROBINS, MRS DON
SW1/4 SE1/4	400	IR	1.600	1	ROSETTI, DANIEL C
SE1/4 SE1/4	400	IR	6.500	1	ROSETTI, DANIEL C
SE¼ SE¼	401	IR	26.000	1	COSTA, RICHARD M
3_,,,			201000	Section 21	
				2000000	
NE¼ NE¼	100	IR	12.000	1	ATKINS, HUGH E
NE¼ NE¼	101	IR	11.000	1	NORMAN D MALEY &
NW1/4 NE1/4	200	IR	6.000	1	AMIS, BILL
NW1/4 NE1/4	201	IR	3.000	1	OWINGS, TERRY M
NW1/4 NE1/4	202	IR	9.000	1	MANSFIELD, HAROLD
NW1/4 NE1/4	204	IR	6.000	1	TOFELL, BRUCE
SW1/4 NE1/4	700	IR	38.400	1	WEIGAND RANCHES INC
SW¼ NE¼	700	PND	0.600	1	WEIGAND RANCHES INC
SE¼ NE¼	800	IR	38.300	1	ALEXANDER, THOMAS
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	300	IR	30.000	1	MCDONALD, CLIFTON
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	400	IR	32.000	1	MCDONALD, CLIFTON
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	500	IR	4.000	1	HARRISON PROPERTIES, INC
SW1/4 NW1/4	501	IR	33.000	1	HARRISON PROPERTIES, INC
SE1/4 NW1/4	600	IR	37.500	1	FOLLOSE, MICHAEL W
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	600	PND	0.100	1	FOLLOSE, MICHAEL W
NE¼ SW¼	1102	IR	38.700	1	SMITH LOGGING
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	34.400	1	FOLLOSE, WALTER
	1100	IR	34.800	1	RICH, PAUL
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1100	IR	27.200	1	RICH, PAUL
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1100	IR	7.300	1	SMITH LOGGING
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	900	IR	32.000	1	LEWIS, DARRYL C
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	900	IR	2.000	1	WELCH, JOHN
14E/4 SE74	902	110	۵.000	1	WELCH, JOHN

NW¼ SE¼	1000	IR	36.000	1	STUMP, STEVEN P
SW¼ SE¼	1101	IR	37.000	1	BROWN, WILBUR L
SE¼ SE¼	1101	IR	38.000	1	BROWN, WILBUR L
				Section 22	
NE¼ NE¼	101	IR	21.700	1	BARTELS, RICHARD L
NW¼ NE¼	101	IR	35.000	1	BARTELS, RICHARD L
SW1/4 NE1/4	100	IR	25.300	1	MCCRIGHT, MILO B
SE¼ NE¼	1001	IR	37.700	1	BARTELS, RICHARD L
NE1/4 NW1/4	200	IR	9.400	1	WELCH, HARRY
NE¼ NW¼	204	IR	14.000	1	SAULSBURY, JAY M
NE¼ NW¼	207	IR	7.800	1	JOSTEN, CLARENCE
NW¼ NW¼		IR	39.700	1	ALEXANDER, THOMAS
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	300	IR	35.500	1	•
					ALEXANDER, THOMAS
SE¼ NW¼	203	IR ID	8.500	1	EBY, KATHLEEN L
SE¼ NW¼	205	IR ID	8.500	1	ROGERS, LEONARD B
SE¼ NW¼	207	IR	16.540	1	JOSTEN, CLARENCE
NE¼ SW¼	206	IR	38.800	1	MORRISON, KENNETH L
NE¼ SW¼	206	PND	0.200	1	MORRISON, KENNETH L
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	202	IR	39.800	1	ALEXANDER, THOMAS
SW1/4 SW1/4	201	IR	11.800	1	MEADOWS, JOHN W
SW¼ SW¼	202	IR	26.700	1	ALEXANDER, THOMAS
SE1/4 SW1/4	201	IR	37.200	1	MEADOWS, JOHN W
SE¼ SW¼	401	IR	0.200	1	BASSETT, GLENN E
SE¼ SW¼	402	IR	0.200	1	BASSETT, GLENN E
SE1/4 SW1/4	500	IR	0.100	1	BASSETT, GLENN E
NE¼ SE¼	1001	IR	24.500	1	BARTELS, RICHARD L
NE1/4 SE1/4	1002	IR	12.800	1	BARTELS, RICHARD L
NW1/4 SE1/4	901	IR	36.000	1	WALKING S RANCH
SW1/4 SE1/4	600	IR	0.400	1	TAYLOR, EDYTH
SW1/4 SE1/4	800	IR	0.820	1	CENTRAL OREGON IRRIGATION
SW1/4 SE1/4	900	IR	0.180	1	CENTRAL OREGON IRRIGATION
SW1/4 SE1/4	901	IR	34.500	1	WALKING S RANCH
SE1/4 SE1/4	1000	IR	1.500	1	WEIGAND RANCHES INC
SE14 SE14	1001	IR	10.000	1	BARTELS, RICHARD L
SE14 SE14	1001	IR IR	25.500	1	BARTELS, RICHARD L
SE74 SE74	1002	IK	23.300	Section 23	BARTELS, RICHARD L
				Section 23	
NICI/NICI/	100	ID	20.700	1	DONALD T GALTMADGILTDUGT
NE¼ NE¼	100	IR ID	29.700	1	RONALD T. SALTMARSH TRUST
NW¼ NE¼	100	IR	29.700	1	RONALD T. SALTMARSH TRUST
SW¼ NE¼	101	IR	38.900	1	SALTMARSH, RONALD T
SE¼ NE¼	800	IR	38.500	1	SALTMARSH, RONALD T
NE¼ NW¼	300	IR	36.000	1	FOX, DALE E
NW¼ NW¼		IR	34.400	1	FOX, DALE E
SW¼ NW¼	300	IR	31.600	1	FOX, DALE E
SE¼ NW¼	300	IR	30.700	1	FOX, DALE E
SE¼ NW¼	400	IR	0.300	1	FOX, DALE E
NE¼ SW¼	300	IR	36.000	1	FOX, DALE E
NE1/4 SW1/4	701	IR	2.000	1	CHRISTMAN, RICHARD W
NW¼ SW¼	300	IR	40.000	1	FOX, DALE E
SW1/4 SW1/4	500	IR	1.800	1	MAC DONALD, LAWRENCE J
SW1/4 SW1/4	501	IR	32.700	1	WAIBEL, JOSEPH W
SW1/4 SW1/4	600	IR	1.500	1	ROTHENBUCHER, ALAN
SE1/4 SW1/4	700	IR	33.000	1	CHRISTMAN, RICHARD W
NE1/4 SE1/4	800	IR	33.400	1	SALTMARSH, RONALD T
NW1/4 SE1/4	800	IR	35.100	1	SALTMARSH, RONALD T
SW1/4 SE1/4	800	IR	37.000	1	SALTMARSH, RONALD T
SE1/4 SE1/4	800	IR	33.400	1	SALTMARSH, RONALD T
DL:/4 DL:/4	300	110	JJ.700	Section 24	ord in more, normally i
				Scotlon 24	

NE¼ NE¼	100	IR	38.000		1	LANDRUS, DALE
NW1/4 NE1/4	100	IR	30.200		1	LANDRUS, DALE
SW1/4 NE1/4	100	IR	38.480		1	LANDRUS, DALE
SE1/4 NE1/4	100	IR	32.000		1	LANDRUS, DALE
NE¼ NW¼	201	IR	27.800		î	DENTON, DENNIS E
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	201	IR	38.200		î	DENTON, DENNIS E
SW1/4 NW1/4	200	IR	19.600		1	DE POLO, THEODORE C
SW1/4 NW1/4	202	IR	8.100		1	DE POLO, THEODORE C
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	200	IR	34.800			•
NE1/4 SW1/4	300	IR IR			1	DE POLO, THEODORE C
			32.510		1	HARRISON PROPERTIES, INC
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	300	IR ID	17.000		1	HARRISON PROPERTIES, INC
SW1/4 SW1/4	300	IR	14.600		1	HARRISON PROPERTIES, INC
SW1/4 SW1/4	301	IR IR	20.200		1	HEPPERLE, DON
SE¼ SW¼	300	IR	1.140		1	HARRISON PROPERTIES, INC
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	301	IR	30.800		1	HEPPERLE, DON
NE¼ SE¼	100	IR	34.220		1	LANDRUS, DALE
NW¼ SE¼	100	IR	27.700		1	LANDRUS, DALE
SW¼ SE¼	100	IR	16.600		1	LANDRUS, DALE
					Section 25	
NE¼ NE¼	100	IR	34.100		1	GRINDSTAFF, DAVID C
NW1/4 NE1/4	200	IR	3.000		1	BURSON, PATRICIA
NW¼ NE¼	201	IR	18.000		1	STAFFORD, JAMES-ESTATE
NW1/4 NE1/4	202	IR	1.000		1	FLOHR, RUSSEL A
NW1/4 NE1/4	300	IR	11.000		1	CROOK COUNTY SCHOOL DIST
SW1/4 NE1/4	201	IR	39.000		1	STAFFORD, JAMES-ESTATE
SE¼ NE¼	100	IR	38.900		1	GRINDSTAFF, DAVID C
NE¼ NW¼	400	IR	27.100		1	BROWN, WILBUR L &
NE¼ NW¼	401	IR	10.500		1	POWELL BUTTE COMM CHURCH
		IR				
NW¼ NW¼	404		31.650		1	BROWN, WILBUR L &
NW¼ NW¼		PND	0.200		1	BROWN, WILBUR L &
NW¼ NW¼	406	IR	4.350		l •	BROWN, MICHAEL A
SW1/4 NW1/4	404	IR	20.200		l	BROWN, WILBUR L &
SW1/4 NW1/4	405	IR	19.200		1	BROWN, WILBUR L &
SE¼ NW¼	400	IR	39.700		1	BROWN, WILBUR L &
SE¼ NW¼	400	PND	0.300		1	BROWN, WILBUR L &
NE¼ SW¼	400	IR	40.000		1	BROWN, WILBUR L &
NW¼ SW¼	400	IR	30.600		1	BROWN, WILBUR L &
NW¼ SW¼	405	IR	9.200		1	BROWN, WILBUR L &
SW¼ SW¼	700	IR	39.000		1	RAU, WESLEY
SE1/4 SW1/4	800	IR	38.650		1	DUNN, J MICHAEL
NE1/4 SE1/4	800	IR	39.000		1	DUNN, J MICHAEL
NW1/4 SE1/4	800	IR	40.000		1	DUNN, J MICHAEL
SW1/4 SE1/4	800	IR	38.350		1	DUNN, J MICHAEL
SE1/4 SE1/4	800	IR	28.000		1	DUNN, J MICHAEL
SE¼ SE¼	801	IR	1.000		1	COPLEY, DON
					Section 26	
NE¼ NE¼	101	IR	36.900		1	WISBY, DENNIS E
NW¼ NE¼	200	IR	6.300		1	BURKE, THOMAS
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	201	IR	5.000		1	KUCZEK, MARK D
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	202	IR	8.800		1	BURKE, THOMAS
NW1/4 NE1/4	202	IR IR	12.000		1	VAN DOMELEN, RONALD W
NW 74 NE 74 SW 1/4 NE 1/4					1 1	
	800	IR ID	27.100		1	UNITED STATES OF AMERICA
SW¼ NE¼	801	IR ID	9.000		1	BURKE, THOMAS
SE¼ NE¼	101	IR	38.500		1	WISBY, DENNIS E
SE¼ NE¼	101	PND	0.500		1	WISBY, DENNIS E
NE¼ NW¼	300	IR ID	36.100		1	BURKE, THOMAS
NW¼ NW¼	400	IR ID	36.000		1	AVILA, DON ET AL
SW¼ NW¼	500	IR	39.000		1	NIXON, ROBERT L
 				-	4- 040-	

SE¼ NW¼	300	IR	37.800	1	BURKE, THOMAS
NE¼ SW¼	700	IR	38.800	1	PANCAKE, GLENDA L
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	600	IR	37.000	1	RICHTER, ROBERT D
NW¼ SW¼	601	IR	1.000	1	CHRISTOFFERSON, STEVE
SW1/4 SW1/4	600	IR	36.000	1	RICHTER, ROBERT D
	1000	IR	38.800	1	MCFARLANE, JIM
NE¼ SE¼	102	IR IR	39.000	1	WISBY, DENNIS E
NW¼ SE¼	800	IR IR	38.900	1	UNITED STATES OF AMERICA
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	900	IR	38.400	1	
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	100	IR	38.000	1	WISBY, DENNIS E
SE74 SE74	100	IK	36.000		WISBY, DENNIS E
				Section 27	
NE¼ NE¼	100	IR	32.600	1	ROSETTI, DANIEL C
NE¼ NE¼	100	PND	1.300	1	ROSETTI, DANIEL C
NW¼ NE¼	100	IR	2.300	1	ROSETTI, DANIEL C
NW¼ NE¼	100	PND	0.700	1	•
SW1/4 NE1/4	201	IR	16.400	1	ROSETTI, DANIEL C NIXON, ROBERT L
SE1/4 NE1/4	201	IR	37.900		•
				1	NIXON, ROBERT L
NE¼ SE¼	201	IR ID	39.000	1	NIXON, ROBERT L
NW¼ SE¼	201	IR ID	14.700	1	NIXON, ROBERT L
SW¼ SE¼	201	IR IR	15.100	1	NIXON, ROBERT L
SW¼ SE¼	400	IR	6.000	1	HALL, RON E
SE¼ SE¼	201	IR	38.900	1	NIXON, ROBERT L
				Section 28	
NE¼ NE¼	100	IR	37.800	1	HORSELL, ARTHUR
NW¼ NE¼	200	IR	36.000	1	LOVELAND, ROSS
SW1/4 NE1/4	200	IR	34.000	1	LOVELAND, ROSS LOVELAND, ROSS
SE14 NE14	100	IR	38.000	1	HORSELL, ARTHUR
			0.200		HORSELL, ARTHUR
SE¼ NE¼	100	PND		1	•
SE¼ NW¼	400	IR ID	20.500	1	WEIGAND RANGHES INC
NE¼ SW¼	400	IR	28.000	1	WEIGAND RANCHES INC
NE¼ SW¼	400	PND	1.000	1	WEIGAND RANCHES INC
SE¼ SW¼	500	IR ID	33.600	1	CONDRON, DAVID A
NE¼ SE¼	400	IR ID	34.000	1	WEIGAND RANCHES INC
NE¼ SE¼	401	IR ID	5.000	1	WEIGAND RANCHES INC
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	400	IR ID	40.000	1	WEIGAND RANCHES INC
SW¼ SE¼	500	IR	39.700	1	CONDRON, DAVID A
SE¼ SE¼	400	IR	36.500	1	WEIGAND RANCHES INC
				Section 33	
NE¼ NE¼	100	IR	37.000	1	HADCDAVE DONALD
		IR	39.500	1	HARGRAVE, DONALD
NW¼ NE¼	100				HARGRAVE, DONALD
SW¼ NE¼	500	IR IB	38.500	1	FOX, DALE
SE¼ NE¼	100	IR DND	35.800 0.700	1	HARGRAVE, DONALD
SE¼ NE¼	100	PND		1	HARGRAVE, DONALD
NE¼ NW¼	200	IR IB	38.200	1	MCFARLANE, JIM
NW¼ NW¼	300	IR	36.600	1	HORSELL, ARTHUR
NW¼ NW¼	300	PND	0.400	1	HORSELL, ARTHUR
SW¼ NW¼	400	IR ID	35.000	1	BOWEN, DARRELL G
SE¼ NW¼	500	IR ID	38.900	1	FOX, DALE
NE¼ SW¼	600	IR	38.000	1	DIRKS, BARBARA I
NE¼ SW¼	600	PND	0.300	1	DIRKS, BARBARA I
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	400	IR IR	38.500	1	BOWEN, DARRELL G
SW1/4 SW1/4	700	IR IR	34.590	1	BUSSETT, JAMES
SE¼ SW¼	700	IR	14.200	1	BUSSETT, JAMES
SE¼ SW¼	701	IR.	22.850	1	BUSSETT, JAMES
NE¼ SE¼	602	IR.	38.060	1	HARRISON PROPERTIES, INC
NW¼ SE¼	600	IR IR	14.700	1	DIRKS, BARBARA I
SE¼ SE¼	601	IR	30.400	1	HARRISON PROPERTIES, INC

## Section 34

NW1/4 NE1/4	100	IR	6.000	1	O'NEIL, TIM
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	200	IR	18.320	1	FLOCK, HAZEL
NW1/4 NW1/4	300	IR	15.700	1	,
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	301	IR	19.000		EASLON, KENNETH
				1	SURPLUS, ROBERT
SW¼ NW¼	300	IR	3.300	1	EASLON, KENNETH
SE¼ NW¼	200	IR	4.000	1	FLOCK, HAZEL
				Section 35	
			Township	15 South, Range 1	4 East, W.M.
NE¼ NW¼	1301	IR	5.900	1	MCNABB, E L
NW¼ NW¼	1301	IR	32.100	1	MCNABB, E L
	1301	IR	22.900	1	MCNABB, E L
	1301	IR	21.300	1	MCNABB, E L
DL7411 17 74	1501	110	21.500		WICHABB, E L
				Section 4	
NEU/NEU/	1001	-	0.55		
	1301	IR	27.700	1	MCNABB, E L
NW¼ NE¼	1301	IR	5.900	1	MCNABB, E L
SW¼ NE¼	1301	IR	6.500	1	MCNABB, E L
SE¼ NE¼	1301	IR	15.300	1	MCNABB, E L
NW¼ NW¼	101	IR	4.000	1	MORGAN, CHARLES
SW1/4 NW1/4	101	IR	18.000	1	MORGAN, CHARLES
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	300	IR	15.200	1	MCCALL, ROBERT C
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	102	IR	6.500	1	•
					RUSSELL, ROBERT R
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	102	PND	0.500	1	RUSSELL, ROBERT R
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	200	IR	17.600	1	GOODMAN, GARY M
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	200	IR	3.400	1	GOODMAN, GARY M
SE¼ SW¼	300	IR	10.000	1	MCCALL, ROBERT C
				Section 5	
NE¼ NE¼	100	IR	21.200	1	MORGAN, CHARLES
NW1/4 NE1/4	200	IR	34.100	1	PETERSON, DAVID L
SW1/4 NE1/4	100	IR	19.700	1	MORGAN, CHARLES
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	300	IR	36.800	1	MORGAN, CHARLES
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	400	IR	25.600	1	MORGAN, CHARLES
SE¼ NW¼	400	IR	33.800	1	MORGAN, CHARLES
					•
NE¼ SW¼	401	IR	39.600	1	MORGAN, CHARLES
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	401	IR	32.700	1	MORGAN, CHARLES
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	600	IR	29.400	1	LEONARD, LEO L
SE¼ SW¼	600	IR	34.200	1	LEONARD, LEO L
NE1/4 SE1/4	500	IR	9.000	1	WENRICH, HOWARD B
NE¼ SE¼	501	IR	0.600	1	ANDERSON, BRUCE
NE¼ SE¼	502	IR	8.800	1	CURRY, ROSS
NE¼ SE¼	504	IR	7.700	1	ANDERSON, BRUCE
NE¼ SE¼	505	IR	9.700	1	SHIVERS, RICHARD
NW¼ SE¼	503	IR	37.500	1	BAILEY, CHARLES M
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	600				•
		IR	18.900	1	LEONARD, LEO L
SE¼ SE¼	700	IR	33.000	1	BURRELL, H CURTISS
				Section 6	
NW¼ NE¼	200	IR	17.700	1	LEONARD, LEO L
SW¼ NE¼	200	IR	29.000	1	LEONARD, LEO L
NE¼ NW¼	300	IR	26.000	1	LEONARD, LEO L
NW¼ NW¼	300	IR	9.500	1	LEONARD, LEO L
SW1/4 NW1/4	300	IR	30.000	1	LEONARD, LEO L
SE¼ NW¼	300	IR	32.600	1	LEONARD, LEO L
SW1/4 SW1/4	400	IR	6.700	1	MORGAN, CHARLES
					,
NE¼ SE¼	401 401	IR ID	9.800	1	O'LEARY, JOHN K
SE¼ SE¼	401	IR	22.700	1	O'LEARY, JOHN K
ID 2111 band				D 40 - 6106	

				Section 7	
NW¹⁄4 NW¹⁄4	100	IR	14.000	1	CRAWFORD, JAMES
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	101	IR	9.600	1	CRAWFORD, JAMES
NW1/4 SW1/4	102	IR	18.300	1	CRAWFORD, JAMES
SW1/4 SW1/4	103	IR	19.100	1	CRAWFORD, JAMES
				Section 8	0111111 0120,0111120
SW1/4 NW1/4	100	IR	5.700	1	HODDER, RICHARD G
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	100	IR	1.700	1	HODDER, RICHARD G
NW¼ SW¼	100	IR	29.950	1	HODDER, RICHARD G
SW1/4 SW1/4	100	IR	35.900	1	HODDER, RICHARD G
SE¼ SW¼	100	IR	25.800	1	HODDER, RICHARD G
NE¼ SE¼	200	IR	11.600	1	HODDER, RICHARD G
NW¼ SE¼	200	IR IR	13.000	1	HODDER, RICHARD G
SW¼ SE¼	200	IR IR	15.700	1	HODDER, RICHARD G
SE¼ SE¼	200	IR	24.600	1	HODDER, RICHARD G
				Section 17	
NE¼ NE¼	100	IR	27.700	1	SHERRELL, JIMY M
NW¼ NE¼	100	IR	35.500	1	SHERRELL, JIMY M
SW1/4 NE1/4	200	IR	24.450	1	ALLEN, CLARENCE
SE¼ NE¼	200	IR	19.800	1	ALLEN, CLARENCE
NE¼ NW¼	304	IR	17.400	1	WAIBEL, JOE
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	21.000	1	BRECK, LEONARD H
SW¼ NW¼	301	IR ID	12.000	1	BRECK, LEONARD H
SE'4 NW'4	300	IR ID	2.000	1	MICHEL, R W
SE¼ NW¼	304	IR ID	18.300	1	WAIBEL, JOE
NE¼ SW¼	302	IR	35.000	1	SIMON, SUSAN M
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	400 400	IR IR	22.400 32.700	1 1	BEERS, MICHAEL E BEERS, MICHAEL E
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	302	IR	39.900	1	SIMON, SUSAN M
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	302	PND	0.100	1	SIMON, SUSAN M SIMON, SUSAN M
NE¼ SE¼	500	IR	34.600	1	HANNA ENTERPRISES TRUST
NE¼ SE¼	500	PND	0.500	1	HANNA ENTERPRISES TRUST
NW1/4 SE1/4	500	IR	36.200	1	HANNA ENTERPRISES TRUST
SW1/4 SE1/4	500	IR	39.700	1	HANNA ENTERPRISES TRUST
SE1/4 SE1/4	600	IR	37.500	1	ROBINSON, DOROTHY M
5274 5274				Section 18	nozawon, zonom m
NE¼ NE¼	100	IR	33.600	1	SPILLMAN, BUD PAUL
NW¼ NE¼	100	IR	31.700	1	SPILLMAN, BUD PAUL
SW1/4 NE1/4	100	IR	38.500	1	SPILLMAN, BUD PAUL
SE¼ NE¼	100	IR	36.200	1	SPILLMAN, BUD PAUL
NE¼ NW¼	200	IR ID	39.600	1	SALTMARSH, RONALD T
NW¼ NW¼	200	IR	37.200	1	SALTMARSH, RONALD T
SW¼ NW¼ SE¼ NW¼	200 200	IR IR	36.400 39.700	1 1	SALTMARSH, RONALD T SALTMARSH, RONALD T
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	300	IR	39.700	1	RONALD T. SALTMARSH TRUST
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	300	IR	39.700	1	RONALD T. SALTMARSH TRUST
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	300	IR	33.800	1	RONALD T. SALTMARSH TRUST
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	300	IR	38.400	1	RONALD T. SALTMARSH TRUST
NE¼ SE¼	400	IR	30.700	1	RONALD T. SALTMARSH TRUST
NW¼ SE¼	400	IR IR	28.300	1	RONALD T. SALTMARSH TRUST
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	401	IR	38.000	1	LANG, JOHN R
SE¼ SE¼	402	IR	26.000	1	LANG, JOHN R
	_			Section 19	•
NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	100	IR	16.200	1	STAFFORD, WILLIS
NW¼ NE¼	102	IR	30.800	1	STAFFORD, WILLIS
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SE¼ NE¼	100	IR	10.000	1	STAFFORD, WILLIS
SE¼ NE¼	101	IR	29.600	1	WAIBEL, JOSEPH W
NE¼ NW¼	200	IR	18.000	1	ALLEN, BRIAN J
NE¼ NW¼	301	IR	15.000	1	ALLEN, CLARENCE
NW¼ NW¼	300	IR	19.400	1	ALLEN, CLARENCE
NW¼ NW¼	301	IR	8.400	1	ALLEN, CLARENCE
SW1/4 NW1/4	201	IR	35.800	1	SWAIN, DELTON W
SE¼ NW¼	201	IR	39.200	1	SWAIN, DELTON W
NE'4 SW'4	401	IR	39.000	1	EVANS RANCH
NW1/4 SW1/4	400	IR	33.100	1	STAFFORD, JAMES-ESTATE
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	401	IR	3.800	1	EVANS RANCH
SW1/4 SW1/4	400	IR	9.900	1	STAFFORD, JAMES-ESTATE
SW1/4 SW1/4	401	IR	23.500	1	EVANS RANCH
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	401	IR	31.700	1	EVANS RANCH
NE¼ SE¼	500	IR	36.500	1	OSU FOUNDATION
NW1/4 SE1/4	501	IR	39.000	1	OSU FOUNDATION
SW1/4 SE1/4	501	IR	34.800	1	
SE1/4 SE1/4	500	IR	32.700	1	OSU FOUNDATION
SE/4 SE/4	300	IK	32.700	Section 20	OSU FOUNDATION
				Section 20	
NE¼ NW¼	100	IR	7.300	1	WAIBEL, JOSEPH W
SW1/4 NW1/4	100	IR	27.000	1	WAIBEL, JOSEPH W
SE¼ NW¼	100	IR	22.500	1	WAIBEL, JOSEPH W
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	100	IR	30.000	1	WAIBEL, JOSEPH W
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	100	IR	39.100	1	WAIBEL, JOSEPH W
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	100	IR	32.000	1	WAIBEL, JOSEPH W
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	100	IR	4.800	1	WAIBEL, JOSEPH W
DL/4 D W /4	100	110	4.800	Section 21	WAIDEL, JOSEFII W
				Section 21	
NE¼ NE¼	100	IR	13.200	1	CURRIER, ARTHUR J
NE¼ NE¼	105	IR	13.000	1	BALK, EARL
NE¼ NE¼	106	IR	7.000	1	MATTIODA, MARC
NW¼ NE¼	103	IR	10.300	1	DEAN, TERRANCE
NW¼ NE¼	106	IR	20.000	1	MATTIODA, MARC
NE1/4 NW1/4	103	IR	34.600	1	DEAN, TERRANCE
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	200	IR	33.200	1	DEAN, TERRANCE
SW1/4 NW1/4	108	IR	15.400	1	DEAN, TERRANCE
SE¼ NW¼	109	IR	2.500	i	DEAN, TERRANCE
22/41111/4	10)	111	2.500	Section 30	DEIN, IEIGGINGE
			Township 15	South, Range 1	5 East, W.M.
			1	, 8	,
SE¼ NE¼	109	IR	0.500	11	CHRISTIANSEN, STEVEN K
SE¼ NE¼	200	IR	2.400	11	WALLACE, WILLIAM F
SW¼ NW¼	200	IR	4.000	11	GARDNER, JAMES W
SE¼ NW¼	303	IR	4.300	11	REYNOLDS, PAUL R
NE¼ SW¼	1000	IR	0.800	11	KLINK, PATSY JEAN
NE¼ SW¼	1200	IR	4.400	11	STEARNS, MARK
NE¼ SW¼	303	IR	0.700	11	REYNOLDS, PAUL R
NE¼ SW¼	600	IR	6.000	11	LUTZ, HENRY J
NE¼ SW¼	700	IR	3.500	11	DARMS, DONALD P
NE¼ SW¼	701	IR	1.000	11	WHORTON, SAMUEL
NE¼ SW¼	800	IR	2.000	11	MOYER, OLEN E
NE¼ SW¼	901	IR	2.300	11	CALVERT, LYLE L
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1000	IR	1.000	11	KLINK, PATSY JEAN
NW¼ SW¼	301	IR	2.000	11	CRANE, JIM D
NW1/4 SW1/4	302	IR	3.000	11	LEE, FRANCES
NW¼ SW¼	400	IR	2.600	11	DART, JEFFREY R
NW1/4 SW1/4	500	IR	5.600	11	LEE, ROBERT E
NW¼ SW¼	900	IR	3.500	11	BOND, KENNETH L
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	901	IR	1.200	11	CALVERT, LYLE L

SW1/4 SW1/4	1000	IR	1.000	11	KLINK, PATSY JEAN
SW1/4 SW1/4	1100	IR	9.000	11	FARRIER, DONALD
SW1/4 SW1/4	1202	IR	15.500	11	BUSH, W ED
SW1/4 SW1/4	400	IR	0.400	11	DART, JEFFREY R
SE1/4 SW1/4	1000	IR	0.200	11	KLINK, PATSY JEAN
SE1/4 SW1/4	1200	IR	10.600	11	STEARNS, MARK
SE1/4 SW1/4	1201	IR	9.500	11	TOWERY, HUGH D
SE1/4 SW1/4	1202	IR	3.000	11	BUSH, W ED
NE¼ SE¼	109	IR	1.200	11	CHRISTIANSEN, STEVEN K
NE¼ SE¼	200	IR	0.100	11	WALLACE, WILLIAM F
112/4 52/4	200	110	0.100	Section 1	WALLACE, WILLIAM F
				Section 1	
SW1/4 NE1/4	200	IR	3.000	11	LYNDS, R E
SW1/4 NE1/4	300	IR	3.000	11	BRINTON, GARY W
SE1/4 NE1/4	100	IR	2.900	11	THOMPSON, GETTA
SE¼ NE¼	400	IR	1.400	11	STONES, ROBERT C
SE¼ NE¼	500	IR	1.350	11	SUMMERS, JEFFERY L
SE1/4 NW1/4	100	IR	4.500	11	BRANDER, ALEX
NE¼ SW¼	700	IR	10.000	11	VANDER ZANDEN, BRUCE A
NE' <sub>4</sub> SW' <sub>4</sub>	701	IR	2.500	11	•
NE¼ SW¼	900	IR	3.200	11	MASTERSON, ARCHIE
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	501	IR	1.000	11	JONES, JOSEPH P
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	600	IR	21.000	11	LEEP, KAREN
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	800	IR	20.000	11	CORBET, MARK R
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1000	IR	1.000		LASH, BRIAN J
SE <sup>1</sup> /4 SW <sup>1</sup> /4	900	IR	18.300	11	BURNETTE, WILLIAM J
SE'4 SW'4	900	PND		11	JONES, JOSEPH P
			0.500	11	JONES, JOSEPH P
NE¼ SE¼	100	IR IB	1.800	11	THOMPSON, GETTA
NE¼ SE¼	1000	IR IB	3.640	11	FLECK, DUAYNE G
NE¼ SE¼	1201	IR IB	4.000	11	SELK, OBERT J JR
NE¼ SE¼	400	IR ID	0.300	11	STONES, ROBERT C
NE¼ SE¼	500	IR ID	1.250	11	SUMMERS, JEFFERY L
NE¼ SE¼	600	IR ID	3.000	11	REED, WADE J &
NE¼ SE¼	701	IR IR	3.500	11	FRANKE, DAVID B
NE¼ SE¼	801	IR IR	3.500	11	KAUFFMAN, KENNETH H
NE¼ SE¼	901	IR IR	4.190	11	MULLENBURG, CAROLYN I
NW1/4 SE1/4	1500	IR IR	0.700	11	ROBERTS, JACK O
NW¼ SE¼	1800	IR IR	4.500	11	SWEET, KEVIN C
NW¼ SE¼	1900	IR	4.000	11	GALLANT, STEVEN H
NW¼ SE¼	200	IR IR	2.200	11	LYNDS, RE
NW¼ SE¼	2000	IR	4.400	11	HAYES, JESSE DUANE
NW¼ SE¼	201	IR IR	5.000	11	WILLIAMS, CHRIS
NW¼ SE¼	2100	IR IR	4.500	11	WILLCUT, MARK
NW1/4 SE1/4	2200	IR ID	4.400	11	FORBIS, LAWRENCE B
NW¼ SE¼	300	IR IR	2.200	11	BRINTON, GARY W
SW¼ SE¼	1400	IR ID	2.500	11	SPENCER, CHARLES J
SW1/4 SE1/4	1401	IR	2.500	11	DAVIS, TERRY L
SW1/4 SE1/4	1402	IR	4.000	11	WICKHAM, RICHARD A
SW1/4 SE1/4	1403	IR	3.000	11	PATRICK, JAMES C
SW1/4 SE1/4	1500	IR	1.900	11	ROBERTS, JACK O
SW1/4 SE1/4	1600	IR	8.000	11	HOLMER, ROGER A TRUSTEE
SW¼ SE¼	1700	IR	2.000	11	OLSON, PHILLIP
SE¼ SE¼	1300	IR	28.000	11	WOLF, CHARLES
SE¼ SE¼	1301	IR	3.600	11	NEWMAN, MARY F ET AL
				Section 2	
NE1/4 SE1/4	1400	IR	6.000	11	CONKLIN, KARL F
SE¼ SE¼	1400	IR	23.000	11	CONKLIN, KARL F
SE¼ SE¼	1500	IR	9.500	11	ECKER, M.& CONKLIN, F.
				Section 9	

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NE¼ NE¼	101	IR	29.400	11	SMITH, DAVID A. FAMILY TRUST
NW¼ NE¼	101	IR	11.600	11	SMITH, DAVID A. FAMILY TRUST
SW1/4 NE1/4	101	IR	6.300	11	SMITH, DAVID A. FAMILY TRUST
SE¼ NE¼	101	IR	19.100	11	SMITH, DAVID A. FAMILY TRUST
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	700	IR	0.500	11	CHANDLER COMMUNITY PROP.
SW1/4 SW1/4	902	IR	12.550	11	GUSS, RICHARD
SW1/4 SW1/4	903	IR	22.750	11	ULLRICH, DAVID C
SE1/4 SW1/4	900	IR	14.000	11	TESCONI, THEODORE F
SE1/4 SW1/4	901	IR	15.500	11	WEIRBACH, JUDD A
SE1/4 SW1/4	902	IR	7.300	11	GUSS, RICHARD
SW1/4 SE1/4	1000	IR	4.600	11	PIEKARSKI, DENNIS L
SW1/4 SE1/4	1100	IR	4.400	11	FOLLETT, LYNN PATRICK
SW1/4 SE1/4	1200	IR	4.400	11	JOHNSON, GERALD W
SW1/4 SE1/4	1300	IR	3.600	11	GRABE, TED M
SW1/4 SE1/4	600	IR	4.600	11	SUMNER, JAMES W
SW1/4 SE1/4	700	IR	4.300	11	BROWN, COREY A
SW1/4 SE1/4	800	IR	4.400	11	HERSHEY, DEBORAH L
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	900	IR	4.500	11	REDMOND, CITY OF
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1400	IR	4.300	11	VEELLE, RODNEY
SE1/4 SE1/4	1600	IR	8.400	11	TABER, JERRY R
SE14 SE14	1700	IR	4.500	11	PANKEY, LARRY
SE14 SE14	200	IR	4.600	11	•
SE14 SE14	300	IR	4.600	11	DAVIDS, DARWIN
SE14 SE14	400	IR		11	EWALT, TIMOTHY
SE14 SE14	500	IR	4.000	11	BUSH, FRANK
SE74 SE74	300	IK	3.600	Section 10	RICE, KENNETH W
				Section 10	
NE¼ NE¼	1100	IR	10.500	11	ISAACSON, RONALD
NE¼ NE¼	1300	IR	2.500	11	LINDSEY, JOHN D
NE¼ NE¼	1301	IR	8.090	11	CURTIS & AYLOR
NE¼ NE¼	1302	IR	1.100	11	WEBB LIVING TRUST
NW¼ NE¼	1300	IR	9.700	11	LINDSEY, JOHN D
NW¼ NE¼	1301	IR	0.500	11	CURTIS & AYLOR
	1302	IR	9.200	11	WEBB LIVING TRUST
NW¼ NE¼	1400	IR	14.000	11	BRADLEY, ROBERT
SW1/4 NE1/4	101	IR	3.000	11	ATCHINSON, J B
SW14 NE14	105	IR	11.600	11	HANSON, DAVID L
SW14 NE14	106	IR	12.350	11	HANSON, DAVID L
SW1/4 NE1/4	107	IR	0.400	11	HANSON, DAVID L
SE'4 NE'4	100	IR	7.400	11	ARTHUR, RAYMOND
SE14 NE14	104	IR	13.600	11	HANSON, DAVID L
SE1/4 NE1/4	105	IR	3.800	11	HANSON, DAVID L
NE¼ NW¼	201	IR	8.000	11	MCGOWAN, MICHAEL J
NE¼ NW¼	208	IR	8.000	11	PETERSEN, KENNETH L ET AL
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	200	IR	24.400	11	HEIERMAN, DAN
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	206	IR	4.850	11	TURNER, STEVEN
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	207	IR	4.850	11	•
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	300	IR	2.500	11	SPURGEON, MICHAEL
SW1/4 NW1/4	400	IR	19.100	11	GRAHAM, KEITH A
					HEGARDT, ADELE
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	401	IR	2.200	11	PETERSEN ROCK GARDENS INC
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	204	IR	16.000	11	SORUM, PETRA O
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	205	IR IB	14.200	11	SORUM, PETRA O
NE'/4 SW'/4	400	IR	6.700	11	HEGARDT, ADELE
NE¼ SW¼	500	IR	1.300	11	CASEBEER, JOHNNY LEE
NE¼ SW¼	800	IR	24.000	11	DAVIDSON, ROBERT
NW1/4 SW1/4	400	IR	19.000	11	HEGARDT, ADELE
NW1/4 SW1/4	401	IR	7.000	11	PETERSEN ROCK GARDENS INC
NW1/4 SW1/4	500	IR	4.700	11	CASEBEER, JOHNNY LEE
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	501	IR	4.500	11	YOUEL, GERALD E

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SW1/4 SE1/4	703	IR	0.500	11	MCDANIEL, CHARLES W
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	702	IR	3.700	11	KIRKHORN, BRUCE
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	701	IR	3.000	11	AGRICULTURAL INVESTMENT
SW¼ SE¼	700	IR	4.600	11	KIRKPATRICK, RONALD
NE¼ SE¼	1102	IR	4.600	11	DAVIS, JEAN S
NE¼ SE¼	1101	IR IR	2.000	11	MEGLITSCH, WILLIAM
NE¼ SE¼	1100	IR IR	16.400	11	DAVIS, JEAN S
SE1/4 SW1/4	606	IR IR	4.000	11	HOUGHTON, MICHAEL R
SE¼ SW¼	605	IR IR	1.800	11	HOUGHTON, MICHAEL R
SE¼ SW¼	604	IR IR	9.000	11	ALOT, ANDREW W
SE¼ SW¼	602	IR IR	4.500	11	KIRKPATRICK, RONALD
SE'4 SW'4	601	IR ID	4.300	11	BAISE, RAYMOND H
SE¼ SW¼	600	IR IB	7.500	11	RAYNER, CHARLES V
SW1/4 SW1/4	504	IR IR	2.000	11	MILLSPAUGH, THEODORE E
SW1/4 SW1/4	500 504	IR IB	0.990	11	MARSHALL, DENNIS G
				11	AVERY, RANDALL S
NE74 SW 74 NW1/4 SW1/4		IR IR	5.000		HYDER, LYNN C
NE¼ SW¼	401	IR IR	16.100	11	•
NE¼ SW¼	401	IR IR	14.000	11	MCFARLANE, BILL
NE¼ SW¼	400	IR	0.600	11	KLEBE, LAURA V
SE1/4 NW1/4	403	IR	10.500	11	LINDH-HAMILTON, CHRISTINE M
SE1/4 NW1/4	402	IR	1.900	11	HYDER, LYNN C
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	400	IR	12.900	11	KLEBE, LAURA V
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	21.000	11	SERRINS, PHILLIP ET AL
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	29.000	11	MILLARD, DAVID
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	23.900	11	NEWMAN, MARY F ET AL
SE1/4 NE1/4	115	IR	8.000	11	LA DUKE, JAMES
SE¼ NE¼	112	IR	0.300	11	HARDWICK, JANET P
SE¼ NE¼	102	IR	5.000	11	MURRIETA, LOUIE
SE¼ NE¼	1000	IR	5.000	11	LINDBECK, MELVIN
SW1/4 NE1/4	113	IR	4.000	11	DICKSON, RONALD L
SW1/4 NE1/4	112	IR	0.600	11	HARDWICK, JANET P
SW1/4 NE1/4	111	IR	3.900	11	TOWNER, ANABETH ET AL
SW¼ NE¼	107	IR	3.000	11	BRIANT, SHARRI
SW1/4 NE1/4	103	IR	8.000	11	GILBERT, THAREL
NW¼ NE¼	200	IR	10.000	11	DOWNS, ROBERT L
NW¼ NE¼	112	IR	0.300	11	HARDWICK, JANET P
NW¼ NE¼	108	IR	4.200	11	CAMPBELL, GARY W
NW¼ NE¼	105	IR	0.700	11	GROSHONG, MILO J
NW¼ NE¼	104	IR ID	6.000	11	MCCORD, CHARLES E
					•
NW1/4 NE1/4	101	IR	1.800	11	CAMPBELL, GARY W
NE¼ NE¼	110	PND	0.200	11	CRAWFORD, DONNIE J
NE¼ NE¼	110	IR	7.800	11	CRAWFORD, DONNIE J
NE¼ NE¼	109	IR	8.000	11	BJORVIK, DONALD G
NE¼ NE¼	106	IR	4.000	11	JONES, FLOYD M
NE¼ NE¼	105	IR	4.500	11	GROSHONG, MILO J
22/4 02/4	_ 0 0 0		2 30	Section 11	,
SE1/4 SE1/4	1000	IR	14.500	11	PRUSAK, ANDREW
NW1/4 SE1/4	107	IR	19.400	11	HANSON, DAVID L
NW1/4 SE1/4	106	IR	8.600	11	HANSON, DAVID L
NW1/4 SE1/4	105	IR	3.000	11	HANSON, DAVID L
NW¼ SE¼	103	IR	7.500	11	HANSON, DAVID L
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	102	IR	0.350	11	MAHANEY, STEPHEN M
NE¼ SE¼	105	IR	1.000	11	HANSON, DAVID L
NE1/4 SE1/4	104	IR	3.600	11	HANSON, DAVID L
NE1/4 SE1/4	103	IR	8.000	11	HANSON, DAVID L
NE¼ SE¼	102	IR	17.650	11	MAHANEY, STEPHEN M
NE¼ SE¼	100	IR	4.300	11	ARTHUR, RAYMOND
SE¼ SW¼	800	IR	27.000	11	DAVIDSON, ROBERT
SW¼ SW¼	600	IR	13.000	11	GILLETTE, JOHN P

	SW1/4 SE1/4	801	IR	2.100	11	BRECKEL, ELMER
				2.100	Section 12	DICECCE, ELVIER
	NEW NEW	101	-	1.5.000		
	NE¼ NE¼	101	IR	15.600	11	HALLIGAN RANCH, INC
	NW¼ NE¼	100	IR	8.000	11	HEDING, LYLE E &
	NW¼ NE¼	101	IR	0.200	11	HALLIGAN RANCH, INC
	NW¼ NE¼	200	IR	0.700	11	WILLIAMS, WALTER A
	NW¼ NE¼	201	IR	3.000	11	WILLIAMS, CAROL J
	SE¼ NE¼	101	IR	11.700	11	HALLIGAN RANCH, INC
	NE¼ NW¼	300	IR	6.900	11	WILLIAMS, WALTER A
	NE¼ NW¼	301	IR	1.000	11	HEDING, LYLE E &
	NE¼ NW¼	302	IR	7.300	11	WILLIAMS, WALTER A
	NE¼ NW¼	303	IR	5.100	11	WILLIAMS, WALTER A
	NW¼ NW¼	401	IR	8.450	11	NICKESON, LORI
	NW¼ NW¼	402	IR	0.550	11	NICKESON, LORI
	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	504	IR	12.000	11	ROY, ALFRED J
	SW1/4 NW1/4	500	IR	13.800	11	SEARS, SUZANNE
	SW1/4 NW1/4	505	IR	11.000	11	INGLIS, GUY M
	SW1/4 NW1/4	508	IR	4.000	11	INGLIS, GUY M
	SE¼ NW¼	500	IR	7.200	11	SEARS, SUZANNE
	SE¼ NW¼	501	IR	17.700	11	HEDING, LYLE E &
	SE1/4 NW1/4	503	IR	2.800	11	HEDING, LYLE E &
	SE1/4 NW1/4	507	IR	4.000	11	MEIGHAN, REN C
	NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	503	IR	30.500	11	HEDING, LYLE E &
	NE/4 5 W /4	303	Т	30.300	Section 13	HEDING, LILE E &
					Section 13	
	NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	100	IR	6.500	11	MOYER, DALE
	NE¼ NE¼	200	IR	7.000	11	ONODA, HAJIME
	NE¼ NE¼	300	IR	4.000	11	MILLS, STEVE
	NE1/4 NE1/4	301	IR	4.000	11	ROCKWOOD, TORRENCE L
	NE1/4 NE1/4	400	IR	3.000	11	MOIR, DONALD S
	NW1/4 NE1/4	602	IR	9.900	11	GRIFFIN, G. W.
	SW1/4 NE1/4	601	IR	9.050	11	ADAMS, JOHN C
	SE1/4 SW1/4	101	IR	2.000	11	DEVEREAUX, HAROLD
	SE1/4 SW1/4	102	IR	2.000	11	LEHTO, PAUL ANDREW
	SE1/4 SW1/4	104	IR	1.000	11	HERRON, ROSEMARY
	SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	105	IR	1.000	11	SIMS, EDWARD
	SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	106	IR	1.000	11	SHAW, DARCY & FREAD, JOY
	SE1/4 SW1/4	900	IR	1.280	11	MCKILLOP, ARCHIE &
	SE1/4 SE1/4	100	IR	1.000	11	JOHNSTON, ALEX E
	SE1/4 SE1/4	200	IR	3.150	11	WEST, ALFRED JAMES
	SE14 SE14	300	IR		11	· ·
				0.750		GRUDT, STEVEN CRAIG
	SE¼ SE¼	301	IR	2.150	11	WEST, ALFRED JAMES
	SE¼ SE¼	302	IR	0.750	11	RASH, DONNA J
	SE¼ SE¼	400	IR	3.000	11	DULLEY, FREDERICK C
	SE¼ SE¼	500	IR	4.000	11	CRENSHAW, FERN
	SE¼ SE¼	600	IR	3.500	11	RAETHER, BETTY JO
	SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	700	IR	3.900	11	RAETHER, BETTY JO
	SE¼ SE¼	800	IR	1.500	11	BURROUGHS, STEVEN D
	SE¼ SE¼	900	IR	3.000	11	SKOOG, RONALD A
					Section 14	
	NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	300	IR	11.600	11	CASTRO, JAMES
	NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	400	IR	12.000	11	JAMES, HAROLD
	NW1/4 NE1/4	500	IR	1.000	11	NUNEMAKER, JOHN
		501	IR	2.000	11	•
	NW14 NE14					FOLLETT, LYNN PATRICK
	NW¼ NE¼ NE¼ NW¼	502	IR ID	0.800	11 11	SCARCELLA, JAYNE A
		600 700	IR ID	13.500	11 11	DUNNING, G ANDREW
	NE¼ NW¼	700	IR ID	18.000	11 11	HINGLEY, GARY
	NW¼ NW¼	800	IR	17.000	11	CLIFTON, ALBERT O
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NW1/4 NW1/4	900	IR	19.000	11	PUTNAM, ELWYN L ET AL
SW1/4 NW1/4		IR	4.000	11	HARGIS, JAMES
				Section 15	
NW¼ NE¼	200	IR	22.000	11	VANSOOY, LANCE W
SW1/4 NE1/4	300	IR	5.900	11	JACCARD, LELAND F
SW1/4 NE1/4	306	IR	6.200	11	KIRZY, CHUCK
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	100	IR	1.000	11	AMARAL, GREGORY T
NE¼ NW¼	101	IR	1.000	11	OWENS, HAZEL E
NE¼ NW¼	102	IR	1.000	11	LONIEN, DARYL
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	103	IR	1.000	11	LEONARD, RICHARD H
NE¼ NW¼	104	IR	1.000	11	DICKERSON-GLIETZ, DALEYNE
NE¼ NW¼	105	IR	1.000	11	MARTIN, JOE ET AL
NE¼ NW¼	106	IR IR	1.000	11	MARTIN, JOE ET AL
NE¼ SE¼	302	IR ID	5.200	11	BOWERS, JAMES L
NE¼ SE¼	303	IR ID	23.800	11	DENNISON, LOUIS
NW¼ SE¼	301	IR	2.700	11	FAIR, ROBERT C &
NW¼ SE¼	303	IR	5.700	11	DENNISON, LOUIS
NW1/4 SE1/4	305	IR ID	0.200	11	FAIR, ROBERT C &
NW¼ SE¼	306	IR ID	6.300	11	KIRZY, CHUCK
SE¼ SE¼	303	IR ID	12.000	11	DENNISON, LOUIS
SE1/4 SE1/4	600	IR	4.000	11	ERICKSON, JEFF S
				Section 23	
SW1/4 NW1/41	2300	IR	19.060	11	REID, RANDALL R
S W /4 IN W /4 I	2300	IK	13.000	Section 25	REID, RANDALL R
				Section 25	
NE¼ NE¼	400	IR	1.900	11	REID, RANDALL R
NE1/4 NE1/4	401	IR	14.500	11	ERICKSON, JEFF S
NW1/4 NE1/4	200	IR	17.600	11	DUPONT, ROBERT
NW1/4 NE1/4	201	IR	8.800	11	DUPONT, ROBERT
NW1/4 NE1/4	401	IR	1.500	11	ERICKSON, JEFF S
SW1/4 NE1/4	104	IR	0.100	11	NELSON, JOHNNY M
SW1/4 NE1/4	201	IR	5.200	11	DUPONT, ROBERT
SW¼ NE¼	202	IR	4.200	11	DUPONT, ROBERT
SW1/4 NE1/4	300	IR	21.800	11	HOLT, JACK
SE¼ NE¼	104	IR	4.400	11	NELSON, JOHNNY M
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	300	IR	5.200	11	HOLT, JACK
SE1/4 NE1/4	400	IR	20.400	11	REID, RANDALL R
NE¼ NW¼	101	IR	1.800	11	CARSEY, EUGENE
NE¼ NW¼	200	IR	4.400	11	DUPONT, ROBERT
NE¼ NW¼	201	IR	2.200	11	DUPONT, ROBERT
NE¼ NW¼	300	IR	4.500	11	LINK, DAVID L &
$NE^{1/4}NW^{1/4}$	302	IR	1.200	11	CARRELL, BRADFORD L
NE¼ NW¼	303	IR IR	1.300	11	RAY, CAMERON
SW1/4 NW1/4	500	IR	8.000	11	FAGEN, HARRY J
SW1/4 NW1/4	600	IR	2.000	11	MEYER, MIRRA
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	201	IR	2.000	11	DUPONT, ROBERT
SE¼ NW¼	202	IR IR	10.600	11	DUPONT, ROBERT
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	800	IR	12.900	11	CARSEY, EUGENE
SE¼ NW¼	801	IR ID	3.800	11	TOWELL, RON
NE¼ SW¼	101	IR IND	0.100	11	ELROD, WILLIAM
NE¼ SW¼	102	IND	1.000	11	CASCASE MATERIALS, INC.
NE¼ SW¼	202	IR	2.000	11	DUPONT, ROBERT
SW1/4 SW1/4	301	IND	2.000	11	CASCASE MATERIALS, INC.
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	105	IR IB	1.600	11	ELROD, WILLIAM
SE1/4 SW1/4	400	IR ID	0.500	11	ROGERS, KATHARINA L
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	401	IR 1D	0.250	11	ROGERS, KATHARINA L
NE¼ SE¼ NE¼ SE¼	100 104	IR IR	3.900 6.400	11 11	NELSON, JOHNNY M
11E/4 SE/4	104	IK	0.400	11	NELSON, JOHNNY M
TTD 0.1.1.1.1				D #6 610#	

NW1/4 SE1/4	104	IR	2.450	11	NELSON, JOHNNY M
NW1/4 SE1/4	200	IR	0.500	11	ELROD, WILLIAM
NW1/4 SE1/4	300	IR	4.000	11	HOLT, JACK
NW1/4 SE1/4	301	IR	10.900	11	ELROD, WILLIAM
NW¼ SE¼	303	IR	0.200	11	ELROD, WILLIAM
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	301	IR	0.700	11	
S W 74 SE74	301	IK	0.700		ELROD, WILLIAM
				Section 26	
NE1/4 SW1/4	100	IR	2.000	11	AVING DODEDT
					AKINS, ROBERT
NE¼ SW¼	1000	IR	0.200	11	THOMPSON, LARRY T
NE¼ SW¼	1100	IR	0.400	11	BOSS, ROBERT D
NE¼ SW¼	1200	IR	0.400	11	JOHNSON, RAYMOND VERNON
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1300	IR	0.200	11	VAN TASSELL, ROY
NE1/4 SW1/4	200	IR	0.500	11	CUNNINGHAM, DEAN A
NE¼ SW¼	300	IR	1.000	11	COLMES, ANDREA
NE¼ SW¼	3100	IR	2.000	11	THOMPSON, LARRY T
NE¼ SW¼	3200	IR	2.000	11	PENNY, STEVEN O
NE¼ SW¼	3300	IR	2.000	11	HARTMAN, CINDY S
NE1/4 SW1/4	3400	IR	1.500	11	BARBER, ROBERT
NE1/4 SW1/4	3500	IR	1.000	11	GAROUTTE, GERALD M
NE1/4 SW1/4	3600	IR	0.500	11	PRICE, JOANNE
NE1/4 SW1/4	3700	IR	0.600	11	HOLMAN, KURT
NE1/4 SW1/4	400	IR	1.000	11	COLMES, ANDREA
NE1/4 SW1/4	500	IR	1.500	11	COLMES, ANDREA
NE1/4 SW1/4	600	IR	0.500	11	COLMES, ANDREA
NE1/4 SW1/4	601	IR	2.000	11	WHITT, WILLIAM R
NE¼ SW¼	700	IR	2.000	11	WHEELER, RONALD A
NE¼ SW¼	800	IR	1.000	11	ADAMSON, DE VERNE
NE¼ SW¼	900	IR	1.400	11	HALL, DANIEL L
	1000	IR	2.300	11	•
SE'4 SW'4					THOMPSON, LARRY T
SE¼ SW¼	1100	IR	0.600	11	BOSS, ROBERT D
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1200	IR	0.100	11	JOHNSON, RAYMOND VERNON
SE¼ SW¼	1300	IR	0.200	11	VAN TASSELL, ROY
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1400	IR	1.500	11	MOON, RICHARD
SE1/4 SW1/4	1500	IR	1.000	11	AUSTIN, ALBERT
SE1/4 SW1/4	1600	IR	1.260	11	ALLISON, CARL
SE1/4 SW1/4	1800	IR	2.800	11	KOCHAN, KARI GAIL
SE¼ SW¼	1900	IR	1.700	11	HILL, JOHN
SE¼ SW¼	2000	IR	1.000	11	STEVENS, NITA
SE¼ SW¼	2100	IR	1.500	11	WILLIAMS, ROBERT A
SE¼ SW¼	2200	IR	2.000	11	MILLER, HERMAN
SE¼ SW¼	2300	IR	2.000	11	CHESS, HARRY R
SE¼ SW¼	2400	IR	1.000	11	RODGERS, MARK A
SE¼ SW¼	900	IR	0.100	11	HALL, DANIEL L-
				Section 27	
SW1/4 NW1/4	302	IR	12.000	11	MCCOWAN, DONALD
SW¼ NW¼	305	IR	9.000	11	REED, CARL R &
SW¼ NW¼	306	IR	11.000	11	MARTIN, HUGH B III
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	100	IR	2.000	11	BEITELSPACHER, WAYNE
NW¼ SE¼	1000	IR	12.000	11	DESULLY, CHARLES J
NW1/4 SE1/4	1100	IR	2.000	11	HERFORD, P C
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	200	IR	2.000	11	JOB, CLARENCE
NW1/4 SE1/4	300	IR	2.000	11	WAGENBLAST, DAVID MIKE
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	400	IR	2.000	11	URELL, RICHARD L
NW1/4 SE1/4	500	IR	1.500	11	SPENCER, ELLA LORRAINE
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	600	IR	2.100	11	THORNTON, BUCK
NW1/4 SE1/4	700	IR	0.900	11	THORNTON, BUCK
NW1/4 SE1/4	800	IR	1.000	11	MT VISTA MOBILE HM PK INC
NW1/4 SE1/4	900	IR	0.500	11	SPENCER, ELLA LORRAINE
1111/4 01/4	700	110	0.500		

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Section 2
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SW1/4 NE1/4	501	IR	4.700	11	MCDOUGAL, IONA JOY
SE1/4 NE1/4	400	IR	6.900	11	ASHFORD, HAROLD J
SE¼ NE¼	501	IR	0.100	11	MCDOUGAL, IONA JOY
SE¼ NE¼	502	IR	5.600	11	DEUBEL, PETER K
SE¼ NW¼	600	IR	8.000	11	G. H. B. CO.
NE1/4 SW1/4	900	IR	30.000	11	GARDNER, LISA
NW1/4 SW1/4	700	IR	17.500	11	ELLIS, LUCIAN F
SW1/4 SW1/4	700	IR	22.500	11	ELLIS, LUCIAN F
NE1/4 SE1/4	1500	IR	15.000	11	HOLMBERG, DAVID
NE¼ SE¼	1600	IR	0.700	11	JOHNSON, KARL W
NE1/4 SE1/4	1701	IR	5.300	11	CREAGER, CLAYTON J, ET AL
NW1/4 SE1/4	1000	IR	5.700	11	HIGHLAND, ROGER J
NW1/4 SE1/4	1200	IR	7.800	11	PROCTOR, CLIFFORD
NW1/4 SE1/4	1300	IR	5.500	11	ENGLES, RAYMOND J
SW1/4 SE1/4	1700	IR	4.000	11	HOLMBERG, DAVID
SE1/4 SE1/4	1600	IR	1.300	11	JOHNSON, KARL W
SE1/4 SE1/4	1700	IR	10.000	11	HOLMBERG, DAVID
SE1/4 SE1/4	1701	IR	14.700	11	CREAGER, CLAYTON J, ET AL
5_,,5_,,		~		Section 35	,,, 2,
			Township 1	6 South, Range 1	2 East, W.M.
			10 Wilsinp 1	o bouin, rumge i	Z Last, W.M.
SE¼ NW¼	100	IR	1.200	11	NASCIMENTO, ROGER K
NE1/4 SW1/4	100	IR	13.800	11	NASCIMENTO, ROGER K
				Section 6	, , , , , , , , , , , , , , , , , , , ,
NW1/4 SW1/4	700	IR	15.200	11	HALLIGAN RANCH, INC
SW1/4 SW1/4	700	IR	11.560	11	HALLIGAN RANCH, INC
				Section 18	
			Township 1	6 South, Range 1	3 East, W.M.
SW1/4 NW1/4	400	IR	33.100	1	HARRISON PROPERTIES, INC
SE¼ NW¼	400	IR	36.000	1	HARRISON PROPERTIES, INC
NE¼ SW¼	400	IR	26.400	1	HARRISON PROPERTIES, INC
NW¼ SW¼	400	IR	29.100	1	HARRISON PROPERTIES, INC
				Section 2	
SW1/4 NW1/4	701	IR	7.000	1	SCHERER, ROBERT K
D W 74 IN W 74	701	IK	7.000	Section 3	SCHERER, ROBERT R
				Section 3	
SW¼ NE¼	300	IR	32.700	1	CONDRON, DAVID A
SE¼ NE¼	200	IR	31.000	1	KELLER, ALAN C
SE1/4 NW1/4	400	IR	28.600	1	WARD, GARY
NE1/4 SW1/4	400	IR	39.400	1	WARD, GARY
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	600	IR	8.000	1	WARD, GARY
SW1/4 SW1/4	601	IR	4.000	1	WRIGHT, BRUCE
SW1/4 SW1/4	602	IR	5.900	1	VAUGHAN, MICHAEL R
SW1/4 SW1/4	603	IR	8.500	1	SCHERER, ROBERT K
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	603	IR	34.000	1	SCHERER, ROBERT K
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	700	IR	3.000	1	LENT, STEVEN L
NE¼ SE¼	900	IR	35.220	1	UMBARGER, MICHAEL
NW¼ SE¼	801	IR	40.000	1	COMMINS, GERALD E
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	800	IR	8.700	1	BORGAARD, NORMAN
SW 74 SE 74 SW 1/4 SE 1/4	800	PND	0.300	1	BORGAARD, NORMAN
SW 74 SE 74 SW 1/4 SE 1/4	801	IR	28.300	1	COMMINS, GERALD E
SW 74 SE 74 SE 1/4 SE 1/4	900	IR	26.300	1	UMBARGER, MICHAEL
SE14 SE14 SE14 SE14	901	IR	4.700	1	UMBARGER, MICHAEL
DE/4 DE/4	<i>5</i> 01	117	7.700	Section 4	
				Section 4	

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	NE¼ NE¼	100	IR	9.300	1	DEAN, TERRANCE
	NW¼ NE¼	100	IR	0.800	1	DEAN, TERRANCE
	SW¼ NE¼	100	IR	8.400	1	DEAN, TERRANCE
	SE¼ NE¼	100	IR	18.100	1	DEAN, TERRANCE
	NE1/4 SE1/4	100	IR	18.300	1	DEAN, TERRANCE
	NW¼ SE¼	100	IR	5.800	1	DEAN, TERRANCE
	SW1/4 SE1/4	200	IR	26.500		•
					1	KNUTZ, LARRY
	SE¼ SE¼	100	IR	32.600	1	DEAN, TERRANCE
					Section 8	
	NIEI/ NIEI/	100	ID	22.700	1	MCCASI AND DODEDT
	NE¼ NE¼	100	IR	32.700	1	MCCASLAND, ROBERT
	NW¼ NE¼	200	IR	28.300	1	TIMMERMAN, LAURENCE &
	NW¼ NE¼	202	IR	7.800	1	TIMMERMAN, LAURENCE &
	SW¼ NE¼	201	IR	37.900	1	TIMMERMAN, LAURENCE &
	SE¼ NE¼	100	IR	26.900	1	MCCASLAND, ROBERT
	NE¼ NW¼	201	IR	38.300	1	TIMMERMAN, LAURENCE &
	NW¼ NW¼	401	IR	28.610	1	VAUGHAN, MICHAEL R
	SW¼ NW¼	500	IR	30.500	1	AVILA, CLARENCE J
	SE1/4 NW1/4	201	IR	39.600	1	TIMMERMAN, LAURENCE &
	NE1/4 SW1/4	600	IR	32.500	1	AVILA, CLARENCE J
	NW¼ SW¼	600	IR	32.000	1	AVILA, CLARENCE J
	SW1/4 SW1/4	700	IR	31.000	1	DEAN, TERRANCE
	SE1/4 SW1/4	700	IR	33.900	1	DEAN, TERRANCE
	NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	601	IR	31.800	1	AVILA, CLARENCE J
	NW1/4 SE1/4	600	IR	29.800	1	AVILA, CLARENCE J
	NW1/4 SE1/4	601	IR	2.400	1	AVILA, CLARENCE J AVILA, CLARENCE J
	SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	600	IR	7.400	1	AVILA, CLARENCE J AVILA, CLARENCE J
	SW1/4 SE1/4	601	IR	25.700	1	•
			IR	29.600	1	AVILA, CLARENCE J
	SE¼ SE¼	601	IK	29.000	1 C4:0	AVILA, CLARENCE J
					Section 9	
	NE1/4 SW1/4	504	IR	22 000	1	AVII A CLADENCE I
				32.800	1	AVILA, CLARENCE J
	NW¼ SW¼	504	IR	31.100	1	AVILA, CLARENCE J
	SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	504	IR	32.600	1	AVILA, CLARENCE J
	SE¼ SW¼	504	IR	31.200	1	AVILA, CLARENCE J
	NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	504	IR	33.200	1	AVILA, CLARENCE J
	SW1/4 SE1/4	504	IR	31.800	1	AVILA, CLARENCE J
					Section 10	
					_	
	NW¼ NW¼	601	IR	0.500	1	CROOK COUNTY CEMETERY DIST
	SW¼ NW¼	501	IR	0.500	1	CROOK COUNTY CEMETERY DIST
					Section 11	
	NE¼ NW¼	504	IR	32.400	1	AVILA, CLARENCE J
	NW¼ NW¼	504	IR	30.250	1	AVILA, CLARENCE J
	SW¼ NW¼	504	IR	32.400	1	AVILA, CLARENCE J
	SE¼ NW¼	504	IR	30.250	1	AVILA, CLARENCE J
	NE¼ SW¼	0	QMU	NI 7.000	1	POWELL BUTTE VIEW ESTATES
	NW¼ SW¼	0	-	NI 0.000	1	POWELL BUTTE VIEW ESTATES
	SW1/4 SW1/4	0	-	NI 0.000	1	POWELL BUTTE VIEW ESTATES
	SE1/4 SW1/4	0	-	NI 0.000	1	POWELL BUTTE VIEW ESTATES
	NE¼ SE¼	0	•	NI 0.000	1	POWELL BUTTE VIEW ESTATES
	NW¼ SE¼	0	•	NI 0.000	1	POWELL BUTTE VIEW ESTATES
	NW 74 SE74 SW1/4 SE1/4		•	NI 0.000	1	
		0	•	NI 0.000 NI 0.000		POWELL BUTTE VIEW ESTATES
	SE¼ SE¼	0	QMU	NI 0.000	1	POWELL BUTTE VIEW ESTATES
					Section 15	
	NIDI/NIDI/	100	ID	27.000	1	LINDOLUCT LYANT
	NE¼ NE¼	100	IR ID	27.900	1	LUNDQUIST, LYNN
	NW¼ NE¼	100	IR ID	36.300	1	LUNDQUIST, LYNN
	SW¼ NE¼	100	IR	37.300	1	LUNDQUIST, LYNN
					_	
Н	B3111.bwb				Page 59 of 105	76358

SE1/4 NE1/4	100	IR	25.100	1	LUNDQUIST, LYNN
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	100	IR	3.300	1	LUNDQUIST, LYNN
NE1/4 NW1/4	101	IR	13.900	1	DEAN, TERRANCE
NW1/4 NW1/4	101	IR	26.900	1	DEAN, TERRANCE
SW¼ NW¼	101	IR	21.300	1	DEAN, TERRANCE
SE1/4 NW1/4	100	IR	24.300	1	LUNDQUIST, LYNN
SE1/4 NW1/4	101	IR	0.700	1	DEAN, TERRANCE
NW¼ SW¼	200	IR	18.600	1	BOVEE, ALAN
NW1/4 SW1/4	201	IR	2.600	1	BOVEE, ALAN
SW1/4 SW1/4	200	IR	2.000	1	BOVEE, ALAN
SW1/4 SW1/4	202	IR	7.500	1	TIMMERMAN, GARY
SW1/4 SW1/4	203	IR	4.500	1	BENNINK, RONALD
SW1/4 SW1/4	204	IR	4.500	1	BENNINK, RONALD
				Section 16	,
NE¼ NE¼	100	IR	25.300	1	DEAN, TERRANCE
NW1/4 NE1/4	200	IR	22.500	1	KNUTZ, LARRY
SW¼ NE¼	200	IR	24.400	1	KNUTZ, LARRY
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	200	IR	37.600	1	KNUTZ, LARRY
NE1/4 SE1/4	400	IR	36.400	1	SKIDGEL, DAVE
NW1/4 SE1/4	301	IR	25.300	1	BUCE, LILLIAN A
SW1/4 SE1/4	301	IR	25.700	1	BUCE, LILLIAN A
SE1/4 SE1/4	400	IR	33.600	1	SKIDGEL, DAVE
				Section 17	<b>,</b>
NE¼ NE¼	100	IR	33.000	1	WHITSETT, LYLE
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	400	IR	38.000	1	MILLER, PAT
SW1/4 NE1/4	400	IR	37.000	1	MILLER, PAT
SE¼ NE¼	200	IR	4.000	1	DUNAWAY, JIM
SE1/4 NE1/4	201	IR	2.500	1	AVILA, CLARENCE J
SE1/4 NE1/4	202	IR	30.500	1	LEMENS, THOMAS J
SE¼ NE¼	202	PND	0.500	1	LEMENS, THOMAS J
NE1/4 NW1/4	400	IR	18.900	1	MILLER, PAT
SE¼ NW¼	400	IR	15.000	1	MILLER, PAT
NE1/4 SW1/4	400	IR	32.700	1	MILLER, PAT
SE1/4 SW1/4	400	IR	34.500	1	MILLER, PAT
NE1/4 SE1/4	201	IR	28.500	1	AVILA, CLARENCE J
NW1/4 SE1/4	400	IR	27.200	1	MILLER, PAT
SW1/4 SE1/4	400	IR	22.700	1	MILLER, PAT
				Section 20	
NW¼ NW¼	200	IR	17.370	1	MARSHALL, CARL A
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	201	IR	6.630	1	REED, ELLA L
SW1/4 NW1/4	300	IR	30.000	1	WENDT, GUY ALLEN JR &
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	400	IR	5.000	1	BUTTE VALLEY RANCH
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	400	IR	28.300	1	BUTTE VALLEY RANCH
SW1/4 SW1/4	400	IR	30.000	1	BUTTE VALLEY RANCH
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	400	IR	19.000	1	BUTTE VALLEY RANCH
	2800	IR	28.100	1	BUTTE VALLEY RANCH
	2800	IR	34.700	1	BUTTE VALLEY RANCH
	2800	IR	20.000	1	BUTTE VALLEY RANCH
SE¼ SE¼	2800	IR	3.200	1	BUTTE VALLEY RANCH
				Section 21	
NID!/NID!/	^	01477	T 0.000	1	DOMELL DIMER MENTER AND
NE¼ NE¼	0	•	I 0.000	1	POWELL BUTTE VIEW ESTATES
NW¼ NE¼	0	•	I 0.000	1	POWELL BUTTE VIEW ESTATES
SW¼ NE¼	0	•	I 0.000	1	POWELL BUTTE VIEW ESTATES
SE¼ NE¼	0	QMUN	I 0.000	1 Section 22	POWELL BUTTE VIEW ESTATES
				Section 22	

NIN71/ NIN71/	0	O) (T.D	NIT 0 000	_	
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	0	-	NI 0.000	1	POWELL BUTTE VIEW ESTATES
SW1/4 NW1/4	0	QMU	NI 0.000	1	POWELL BUTTE VIEW ESTATES
				Section 23	
SW1/4 SW1/4	200	ID	17 200	1	DIFFERMALLEMENT
3 W 74 3 W 74	200	IR	17.200	1	BUTTE VALLEY RANCH
				Section 27	
NE¼ NW¼	200	IR	6,000	1	MEIONED DONALD
			6.000	1	MEISNER, RONALD
NE¼ NW¼	201	IR ID	23.000	1	STELLE, GARY E
NW¼ NW¼	201	IR IR	37.000	1	STELLE, GARY E
NE¼ SE¼	500	IR.	16.900	1	BUTTE VALLEY RANCH
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	500	IR	10.100	1	BUTTE VALLEY RANCH
SW1/4 SE1/4	500	IR	4.100	1	BUTTE VALLEY RANCH
SE¼ SE¼	500	IR	10.200	1	BUTTE VALLEY RANCH
				Section 28	
NE¼ NE¼	100	IR	17.000	1	WARD, HOWARD
NW¼ NE¼	200	IR	20.000	1	LUNDY, DWAIN C
SW¼ NE¼	200	IR	4.100	1	LUNDY, DWAIN C
NE¼ NW¼	200	IR	4.900	1	LUNDY, DWAIN C
				Section 29	
NE¼ NW¼	100	IR	9.000	1	SALE, LAWRENCE E
NW¼ NW¼	200	IR	11.200	1	BUTTE VALLEY RANCH
SE¼ NW¼	100	IR	23.500	1	SALE, LAWRENCE E
SE¼ NW¼	100	PND	1.500	1	SALE, LAWRENCE E
				Section 34	
			Township 1	6 South, Range 1	4 East, W.M.
NE¼ NE¼	100	IR	25.600	11	JUHL, THEODORE CARL
NW¼ NE¼	100	IR	28.600	11	JUHL, THEODORE CARL
NW¼ NE¼	200	IR	2.000	11	WILSON, THEODORE R JR
NW¼ NE¼	201	IR	2.000	11	HERRIG, CRAIG R
NW1/4 NE1/4	202	IR	2.800	11	JUHL, THEODORE CARL
SW1/4 NE1/4	401	IR	5.000	11	KENT, ALAN R
SW¼ NE¼	403	IR	8.000	11	COURT, ROBERT
SW¼ NE¼	405	IR	7.100	11	KIRK, RICHARD F
SW¼ NE¼	406	IR	4.100	11	SERPA, JULIA A ET AL
SW¼ NE¼	407	IR	3.800	11	KOENIG, ARNOLD J
SE¼ NE¼	400	IR	21.000	11	DE GRUCHY, DON C JR
SE¼ NE¼	409	IR	1.200	11	DE GRUCHY, DONALD C
SE¼ NE¼	411	IR	7.630	11	DE GRUCHY, DONALD C
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	500	IR	28.000	11	SMITH, TRACIE LEE
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	502	IR	2.000	11	BURTIS, RAYMOND
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	409	IR	3.900	11	DE GRUCHY, DONALD C
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	704				
		IR ID	5.000	11	MURPHY, MICHAEL
NE¼ SE¼	706	IR ID	4.500	11	DE GRUCHY, DONALD C
NW¼ SE¼	410	IR ID	3.720	11	PARIS, PATRICIA J
NW¼ SE¼	707	IR ID	1.700	11	KENT, ALAN R
NW¼ SE¼	712	IR ID	4.640	11	JOHNSON, MARION E
SW1/4 SE1/4	600	IR ID	1.500	11	IVIE, EDWARD
SW1/4 SE1/4	601	IR	1.500	11	WILLIAMS, CARL
SW¼ SE¼	602	IR ID	1.500	11	DAY, DREENA
SW¼ SE¼	603	IR IR	1.500	11	MEEKO, JOAN J & POWER, KIM
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	604	IR	1.500	11	GEORGE & BETTY WITTMER
SW¼ SE¼	605	IR	1.500	11	HARRIS, LISA
SW¼ SE¼	606	IR	3.000	11	WORRELL, JANIS M
SW1/4 SE1/4	607	IR	3.000	11	SHRODE, WILLIAM L
				Section 2	

NW¼ NE¼	200	IR	3.500	11	PANGLE, KEVIN L
NW¼ NE¼	201	IR	5.000	11	CRIBBINS, A J
NW¼ NE¼	202	IR	6.100	11	HAIDER, MAY D
NW¼ NE¼	203	IR	4.900	11	HAIDER, MAY D
NW¼ NE¼	204	IR	1.500	11	IPOCK, STANLEY V
SW¼ NE¼	301	IR	18.000	11	HAIDER, MAY D
SW¼ NE¼	302	IR	19.600	11	HAIDER, MAY D
NE¼ NW¼	600	IR	5.200	11	MARTHALLER, FRANCIS
NE¼ NW¼	601	IR	5.000	11	BREMER, DEWAYNE M
SE¼ NW¼	500	IR	4.000	11	MAYES, STEVE D
SE¼ NW¼	502	IR	2.000	11	BLACK, JAMES
SE¼ NW¼	503	IR	4.000	11	JOKI, RYOHEI
NE¼ SW¼	800	IR	6.000	11	RICHTER, CHARLES P
NE¼ SW¼	802	IR	5.000	11	CAHILL, PAUL C
NE¼ SW¼	803	IR	16.000	11	CUTTER, DANIEL H
SE1/4 SW1/4	801	IR	18.000	11	CHESHIRE, MICHAEL
SE1/4 SW1/4	900	IR	5.000	11	JOHNSON, MARK L &
SE1/4 SW1/4	901	IR	5.000	11	MCCAY, RICHARD H
NW1/4 SE1/4	303	IR	8.500	11	PRODEHL. PHILIP G
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	304	IR	17.110	11	HAIDER, MAY D
NW1/4 SE1/4	305	IR	5.200	11	HAIDER, MAY D
SW1/4 SE1/4	300	IR	14.000	11	DAVIS, KEITH E
SW1/4 SE1/4	306	IR	15.000	11	SERGEANT, JAMES CARL
0 11 /4 02/4	500		10.000	Section 11	SERGERIT, WINDS CHIE
				Section 11	
SE1/4 SW1/4	500	IR	32.000	1	HOLLIDAY, EUGENE M
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	301	IR	6.000	1	WHITE, WILLIAM R
NW¼ SE¼	311	IR	1.000	1	GRAHAM, HENRY
NW¼ SE¼	313	IR	2.000	1	ADAMS, ALAN C
SW1/4 SE1/4	303	IR	7.500	1	PESTKA, VERNE
SW1/4 SE1/4	305	IR	2.500	1	HANSEN, SALLY JO &
SW1/4 SE1/4	307	IR	4.000	1	PAULSON, DARWIN J
SW1/4 SE1/4	308	IR	4.000	1	JACOBS, CLINT R
SW1/4 SE1/4	309	IR	2.000	1	STEPHENS, BARBARA J
				Section 12	
NE¼ NE¼	100	IR	21.170	1	COOK, GEORGE
NW¼ NE¼	101	IR	2.000	1	CRAMER, ROBERT G
NW¼ NE¼	102	IR	2.000	1	GREENE, JEFFREY
NW¼ NE¼	103	IR	2.000	1	RODERICK, STEPHEN C
NW¼ NE¼	104	IR	3.250	1	POWELL, GERALD
NW¼ NE¼	113	IR	4.250	1	POWELL, GERALD
NW¼ NE¼	114	IR	2.000	1	O'GRADY, KELLY
NW¼ NE¼	115	IR	2.000	1	GOULD, CHARLES H
NW¼ NE¼	116	IR	2.000	1	PRICE, STEVEN D ET AL
SW1/4 NE1/4	105	IR	3.600	1	COOK, GEORGE
SW1/4 NE1/4	106	IR	2.000	1	BUTCHER, MARK
SW1/4 NE1/4	107	IR	2.000	1	HAGER, MICHAEL F
SW¼ NE¼	108	IR	2.000	1	SALA, BENNETT MATTHEW
SW1/4 NE1/4	109	IR	2.000	1	JACOBS, BRENT E
SW1/4 NE1/4	110	IR	2.000	1	HAYNES, RUTH A
SW¼ NE¼	111	IR	2.000	1	WHITEMAN, ROGER
SW1/4 NE1/4	112	IR	2.000	1	SCOTT, CHARLES A
SE' <sub>4</sub> NE' <sub>4</sub>	100	IR	36.000	1	COOK, GEORGE
SE14 NE14	700	IR	1.000	1	TARBET, DALE
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	200	IR	12.000	1	DALEY, DOUGLAS G
NE¼ NW¼	202	IR	11.500	1	WONZER, NORMAN E
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	302	IR	5.000	1	POARCH, CHARLES E
NW1/4 NW1/4	302	IR	2.800	1	PARSONS, REV DAVID E
NW1/4 NW1/4	305	IR	3.000	1	ZETTERBURG, NIKLAS
14 VV /4 14 VV /4	505	117	5.000	1	ZLI ILIDOKO, NIKLAS

NW1/4 NW1/4	308	IR	2.900	1	PARSONS, REV DAVID E
NW1/4 NW1/4	308	PND	0.300	1	PARSONS, REV DAVID E
NW¼ NW¼	313	IR	3.000	1	HUGHES, BARBARA
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	314	IR	3.000	1	EVANS, HAROLD B
SW1/4 NW1/4	301	IR	4.000	1	•
					RUSSELL, RICHARD A
SW1/4 NW1/4	307	IR ID	3.000	1	HASSEY, WILLIAM K
SW1/4 NW1/4	309	IR	3.000	1	LEFOR, WALTER J
SW1/4 NW1/4	310	IR	3.000	1	BALLENGER, HAROLD C
SW1/4 NW1/4	311	IR	3.000	1	KENOYER, SAMUEL F
SW¼ NW¼	312	IR	3.000	1	NOLAN, ROBERT
SE¼ NW¼	202	IR	0.500	1	WONZER, NORMAN E
SE1/4 NW1/4	203	IR	12.000	1	HERMAN, GLENN C
SE1/4 NW1/4	204	IR	12.000	1	DRAKE, RANDELL E
NE1/4 SW1/4	401	IR	38.300	1	NELSON, BERTIL
NW1/4 SW1/4	401	IR	37.800	1	NELSON, BERTIL
NW1/4 SW1/4	401	PND	0.200	1	NELSON, BERTIL
SW1/4 SW1/4	402	IR	36.000	1	NELSON, BERTIL
SW1/4 SW1/4	500	IR	1.000	1	HARGRAVE, DONALD
	400	IR	29.500		
SE¼ SW¼				1	NELSON, BERTIL
SE¼ SW¼	402	IR ID	0.200	1	NELSON, BERTIL
NE¼ SE¼	700	IR	13.500	1	TARBET, DALE
NE¼ SE¼	800	IR	4.000	1	BUNDY, WILLIAM
NE¼ SE¼	901	IR	5.000	1	BUNDY, WILLIAM
NW¼ SE¼	601	IR	18.000	1	FLEMING, JAMES
NW¼ SE¼	602	IR	9.000	1	FLEMING, JAMES
NW1/4 SE1/4	604	IR	1.400	1	MARTINEZ, VICTOR A
NW1/4 SE1/4	606	IR	6.600	1	MARTINEZ, VICTOR A
SW1/4 SE1/4	600	IR	13.000	1	KURTZ, DEVON
SW1/4 SE1/4	605	IR	16.000	1	COATS, ERIC W
SE1/4 SE1/4	902	IR	4.000	1	BOUCHARD, ROGER H
SE1/4 SE1/4	903	IR	3.700	1	STRONG, ROBERT
SE1/4 SE1/4	904	IR	1.700	1	NORGORDEN, NELS
SE1/4 SE1/4	905	IR	7.000	1	ROSE, RAY A
SE1/4 SE1/4	907	IR	5.400	1	GAGE, DANIEL M
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	908	IR	5.800	1	LOWE, GAYLE A
		IR		1	•
SE1/4 SE1/4	909	IK	6.700	_	FISHER, ROBERT W
				Section 13	
NIN (1 / NIP 1 /	200	TD	2 000	11	IOIDIGON DAND
NW¼ NE¼	200	IR	3.000	11	JOHNSON, DAVID
NW¼ NE¼	400	IR	4.250	11	OLDS, DOUG
NW¼ NE¼	600	IR	3.000	11	JEFFERS, CYNTHIA LYNN
SW¼ NE¼	100	IR	4.700	11	GORDON, RICHARD L
SW¼ NE¼	200	IR	4.000	11	HENDERSON, MARION
SW¼ NE¼	201	IR	1.800	11	HENDERSON, MARION
SW1/4 NE1/4	300	IR	3.000	11	CENIGA, KELLY
SW1/4 NE1/4	500	IR	2.600	11	HURST, WILLIAM J
SW1/4 NE1/4	800	IR	2.500	11	CROFOOT, LEONARD V
SE¼ NE¼	200	IR	1.000	1	SMITH, NANCY K
SE1/4 NE1/4	300	IR	2.000	1	HERMANN, JOHN
SE¼ NE¼	400	IR	0.500	1	MANSUR, MRS AVALON V
SE¼ NE¼	500	IR	2.000	1	FULLER, KRISTI J
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	100	IR	4.000	11	CONTI, GLORIA
					•
NE¼ NW¼	200	IR ID	2.000	11	INGRAM, DON
NE¼ NW¼	300	IR	8.000	11	HOWARD, JAMES D
NE¼ NW¼	400	IR	1.200	11	SCHASSBERGER, HERMAN
NE¼ NW¼	500	IR	8.000	11	SCHASSBERGER, HERMAN
SW1/4 NW1/4	400	IR	2.700	11	CANFIELD, FRED C
SW1/4 NW1/4	500	IR	3.000	11	HOLT, MARILYN S
SW¼ NW¼	700	IR	1.500	11	BRIGHT, JON
SW1/4 NW1/4	800	IR	3.150	11	SEQUEIRA, MICHAEL A

SE¼ NW¼	100	IR	2.700	11	SUMMERS, OMER
SE¼ NW¼	200	IR	2.300	11	SUMMERS, OMER
SE¼ NW¼	400	IR	4.750	11	JOLOKAI, GEORGE A &
SE1/4 NW1/4	500	IR	0.920	11	MILES, ELMO M
SE1/4 NW1/4	600	IR	4.500	11	WAGNER, MICHAEL R
SE1/4 NW1/4	700	IR	2.000	11	WARREN, ROY B JR
SE1/4 NW1/4	800	IR	7.500	11	CROFOOT, LEONARD V
NE1/4 SW1/4	100	IR	1.900	11	SANTUCCI, BRADLEY L
NE1/4 SW1/4	200	IR	2.000	11	REID, ELSIE ZEHR
NE1/4 SW1/4	300	IR	7.000	11	WHITEHEAD, CECIL
NE1/4 SW1/4	400	IR	2.400	11	LAHEY, MICHAEL J
NE1/4 SW1/4	401	IR	4.600	11	MASTERSON, DEAN W
NE1/4 SW1/4	500	IR	6.000	11	CROFOOT, LEONARD V
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	100	IR	3.000	11	PAULSEN, STEVEN M
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	1.000	11	HOEPER, DENNIS E
NW¼ SW¼		IR	1.000	11	HOEPER, DENNIS E
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	300	IR	1.300	11	SHACKELL, SIMON T
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	400	IR	1.200	11	WESLEY, LEONARD
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	500	IR	1.250	11	MADISON, ROGER
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	600	IR	1.000	11	,
					MADISON, ROGER
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	700	IR IB	4.250	11	FERRIN, WILLIAM M
NW1/4 SW1/4	800	IR	1.600	11	SEQUEIRA, MICHAEL A
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	800	IR ID	1.500	11	SWEENEY, HARRIET E
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	900	IR ID	3.500	11	STOWERS, MARIANNE YVONNE
SW1/4 SW1/4	100	IR	3.000	11	MERGEL, WILLIAM B
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1000	IR	0.970	11	THOMPSON, JAMES R
SW1/4 SW1/4	200	IR	1.000	11	SEARCY, BONNIE E
SW1/4 SW1/4	301	IR	2.000	11	GUZMAN, RENE J
SW1/4 SW1/4	300	IR	2.460	11	WALSH, ALAN J
SW1/4 SW1/4	400	IR	4.970	11	TROSCLAIR, ROY V
SW1/4 SW1/4	500	IR	0.500	11	BOSCH, JOHN
SW1/4 SW1/4	600	IR	1.000	11	SCHWARZ, HANS H
SW1/4 SW1/4	700	IR	2.000	11	FRANK, DELORES
SW1/4 SW1/4	800	IR	1.670	11	BOSCH, JOHN MCKENNA JR
SW1/4 SW1/4	900	IR	1.500	11	BOSCH, JOHN
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	100	IR	9.000	1	GIANOTTI, WILTON A
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	200	IR	2.100	1	CROFOOT, LEONARD V
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	300	IR	2.100	1	CROFOOT, LEONARD V
SE¼ SW¼	500	IR	1.000	1	MEDLEY, KENNETH D
SE¼ SW¼	600	IR	3.800	1	PAGE, JERRY LYNN
SE1/4 SW1/4	700	IR	3.500	1	WALKER, CLARENCE
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	800	IR	3.500	1	PRICE, DANNY R
NE¼ SE¼	800	IR	7.000	1	PHILLIPS, HOYLE DAVID
NE¼ SE¼	802	IR	0.500	1	DE WITT, MRS ANNIE
NE¼ SE¼	803	IR	0.500	1	MENDONCA, EDWARD D
NE¼ SE¼	805	IR	2.600	1	DYER, BOYD J
NE¼ SE¼	806	IR	15.700	1	DYER, BRUCE
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	100	IR	1.100	11	SANTUCCI, BRADLEY L
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	500	IR	10.400	1	HURST, WILLIAM J
SW1/4 SE1/4	700	IR	22.000	1	POOL, PAUL
SW1/4 SE1/4	701	IR	3.000	1	BECK, CYNTHIA L
SE¼ SE¼	806	IR	33.900	1	DYER, BRUCE
				Section 14	
NE¼ NE¼	204	IR	0.200	11	GISLER, VINCENT E
NW¼ NE¼	204	IR	0.300	11	GISLER, VINCENT E
SW1/4 NE1/4	100	IR	1.000	11	TURNER, MORLEY R
SW1/4 NE1/4	201	IR	3.900	11	GISLER, JOEL T
SW1/4 NE1/4	203	IR	0.900	11	GISLER, PATRICK M
SW14 NE14	204	IR	17.800	11	GISLER, VINCENT E
5 11 /4 IND/4	201	111	17.000		
				D (1 010 F	

SW1/4 NE1/4	600	IR	0.900	11	ROGEN, DUWAYNE
SE'4 NE'4	202	IR	21.200	11	GISLER, KATHRYN Y
SE¼ NE¼	204	IR	6.300	11	GISLER, VINCENT E
SE¼ NW¼	201	IR	15.100	11	GISLER, JOEL T
SE1/4 NW1/4	203	IR	13.000	11	GISLER, PATRICK M
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	200	IR	1.000	11	PERREAULT, JEFF
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	300	IR	1.000	11	HANSEN, HANS C
NE¼ SW¼	400	IR	1.000	11	ANDERSON, ERIC C
NE'4 SW'4	600	IR	3.750	11	HISKEY, ROGER
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	100	IR	4.700	11	PUDDY, MICHAEL M
SE'/4 SW'/4	200	IR	3.700	11	DEITRICK, RICKARD R
SE'4 SW'4	300	IR	2.000	11	CROCKER, ARTHUR
SE'4 SW'4	400	IR	1.900	11	ATWOOD, JAMES D
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	500	IR	1.600	11	CRABB, RUSSELL
SE'4 SW'4	600	IR	2.000	11	BASSLER, RICHARD H
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	700	IR	1.500	11	STENKAMP, ROBERT M
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	800	IR	3.500	11	-
SE' <sub>4</sub> SW' <sub>4</sub>	900	IR	6.000	11	WHITEHURST, NOLAN
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	100	IR	0.500	11	MORAN, MATTHEW P SCOTT, NORMAN P
NE¼ SE¼	1000	IR	1.250	11	
NE¼ SE¼	1100	IR	0.500	11	ROBERTS, KEN M
NE¼ SE¼	1200	IR	2.000		COMBS, MARVIN F
NE¼ SE¼ NE¼ SE¼	1300	IR	1.000	11 11	SERBUS, FRANK
NE¼ SE¼ NE¼ SE¼	1400	IR	0.500	11	DONOVAN, D F
					BOEMI, HENRY
NE¼ SE¼	1500	IR IR	0.500	11	MUNSON, DAIVD A
NE¼ SE¼	200		1.500	11	ANDERSON, ELMA
NE¼ SE¼	400 600	IR IR	0.500	11	HERSHEY, RUBY IRENE
NE¼ SE¼			0.500	11	TIDWELL, GORDON G
NE¼ SE¼	700	IR ID	0.500	11	SMITH, DUANE E
NE¼ SE¼	800	IR	1.500	11	SAUNDERS FAMILY REVOC. TRST
NE¼ SE¼	900	IR	0.500	11	MURRIETA, LOUIE
NW¼ SE¼	1100	IR	1.500	11	STEWART, ALAN C
NW¼ SE¼	1200	IR	0.300	11	SCHOENFIELD, HAROLD P
NW¼ SE¼	1500	IR	1.680	11	MACRITCHIE, BRIAN
NW¼ SE¼	1600	IR	0.500	11	WESTCOTT, HEATH
NW¼ SE¼	1700	IR	2.150	11	PING, LAMAR ALAN
NW¼ SE¼	1800	IR	1.000	11	BATEMAN, DAVID K
NW¼ SE¼	200	IR IB	1.000	11	CARDON, ERNEST F
NW¼ SE¼	300	IR	1.000	11	LASNIEWSKI, DOUGLAS
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	400	IR	1.000	11	FUERSENAU, DUANE
NW¼ SE¼	500	IR	1.250	11	BECKER, E LEWIS II
NW¼ SE¼	600	IR ID	0.600	11	ROGEN, DUWAYNE
NW¼ SE¼	700	IR ID	1.500	11	VERNON, GREG T
NW¼ SE¼	800	IR IB	1.000	11	TIPTON, TRACY V
NW¼ SE¼ SE¼ SE¼	900 100	IR IR	1.000 1.800	11 11	ECHELBERGER, GARY L CRENSHAW, FERN L
		IR		11	-
SE¼ SE¼ SE¼ SE¼	1000 1100	IR	1.000 1.000	11	JOHNSON, CRAIG SAINT FRANCIS OF ASSISI
SE <sup>1</sup> 4 SE <sup>1</sup> 4	1300	IR	0.770	11	ROBINSON, JOAN J
SE <sup>1</sup> 4 SE <sup>1</sup> 4	1500	IR	1.000	11	CONGLETON TRUST
SE'4 SE'4 SE'4 SE'4	1600	IR	1.000	11	NELSON, RICHARD
SE'4 SE'4 SE'4 SE'4	200	IR	1.000	11	PINO, TONY
SE14 SE14 SE14 SE14	400	IR	2.000	11	MCCORMICK, BOB
SE14 SE14 SE14 SE14	500	IR	1.000	11	WALTERS, FRED H
SE14 SE14 SE14 SE14	600	IR	0.700	11	JOHNSON, WILLIAM B
SE14 SE14 SE14 SE14	700	IR	1.000	11	SCOTT, BRADLEY R
SE¼ SE¼ SE¼ SE¼	800	IR	1.000	11	SCOTT, BRADLEY R SMITH, DUANE E
SE/4 SE/4	600	117	1.000	Section 15	SWILLI, DUAINE E
				Section 13	
NE¼ SW¼	102	IR	3.069	10	RIVER'S EDGE INVESTMENTS
112/4011/4	102	110	5.007	10	12 , 210 22 02 II ( IDOIIVIDI(I)
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NW1/4 SW1/4	102	IR	3.545	10	RIVER'S EDGE INVESTMENTS
SW1/4 SW1/4	102	IR	4.055	10	RIVER'S EDGE INVESTMENTS
SE1/4 SW1/4	102	IR	15.678	10	RIVER'S EDGE INVESTMENTS
SW1/4 SE1/4	4800	IR	11.000	10	RIVER'S EDGE INVESTMENTS
				Section 20	TO VERTICAL ESTABLISTED
NE1/4 SW1/4	1000	IR	1.700	1	CHOFFEL, LEONARD K
NE1/4 SW1/4	1100	IR	3.800	1	DAVIS, MARIE
NE1/4 SW1/4	1200	IR	10.000	1	BENNETT, RAYMOND
NE1/4 SW1/4	1300	IR	3.000	1	JUDGE, THOMAS R
NE1/4 SW1/4	1400	IR	4.400	1	PETE, T M ENTERPRISES
SE1/4 SW1/4	1000	IR	2.300	1	CHOFFEL, LEONARD K
SE1/4 SW1/4	1100	IR	0.200	1	DAVIS, MARIE
SE1/4 SW1/4	1400	IR	0.600	1	PETE, T M ENTERPRISES
SW1/4 SE1/4	200	IR	1.500	1	SPERLING, DAVID
SW1/4 SE1/4	300	IR	3.500	1	SPERLING, DAVID
SE1/4 SE1/4	2200	IR	12.800	1	HOLT, JACK N ET AL
				Section 22	,
NE¼ NE¼	100	IR	0.700	1	HAMBY, DELLA
NE¼ NE¼	102	IR	6.000	1	CARTER, GRACE CHANGE ET AL
NE¼ NE¼	104	IR	9.000	1	HUEBNER, STEVE
NE¼ NE¼	106	IR	6.800	1	FOUTS, DANIEL K
NE¼ NE¼	111	IR	3.000	1	WATERMAN, FRED G
NE¼ NE¼	112	IR	1.000	1	LECHNER, GERALD
NE¼ NE¼	113	IR	1.500	1	WHALEN, DAVID T
NW¼ NE¼	100	IR	2.000	1	CRENSHAW, KENNETH E
NW¼ NE¼	200	IR	2.300	1	COOPER, CHARLENE
NW¼ NE¼	300	IR	1.700	1	COOPER, CHARLENE
NW¼ NE¼	600	IR	1.700	1	COOPER, CHARLENE
NW¼ NE¼	700	IR	1.000	1	COOPER, CHARLENE
NW¼ NE¼	800	IR	3.000	1	RUDIN, MARK L
NW¼ NE¼	900	IR	9.300	1	COOPER, CHARLENE
SW1/4 NE1/4	300	IR	0.800	1	MACGURN, DAVID F
SW1/4 NE1/4	301	IR	2.000	1	LADUKE, BRENDA
SW1/4 NE1/4	400	IR	3.700	1	SUCHY, ARTHUR
SW1/4 NE1/4	401	IR	5.100	1	CERULLO, LAWRENCE J
SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	402	IR	6.200	1	FARNHAM, TERRY L
SE¼ NE¼	102	IR.	2.000	1	CARTER, GRACE CHANGE ET AL
SE¼ NE¼	103	IR	0.750	1	WOOD, LUCY H
SE¼ NE¼	105	IR	1.000	1	SMITH, GENE
SE¼ NE¼	110	IR	1.500	1	BUTTS, DANIEL
SE¼ NE¼	115	IR	8.000	1	CHANG-SEARS PARTNERSHIP
SE¼ NE¼	116	IR	12.500	1	VINEYARD CHRISTIAN FELLOWSHIP
SE¼ NE¼	200	IR	5.970	1	SHORT, JOHN F
NE¼ NW¼	700	IR	7.000	1	CURL, H J
NE¼ NW¼	703	IR	2.000	1	WARNER, EMILY M
NE¼ NW¼	704	IR	3.800	1	CURL, H J
NE¼ NW¼	706	IR	2.500	1	LOVELY, JAMES P
NE¼ NW¼	707	IR	7.200	1	CURL, H J
NE¼ NW¼	708	IR	0.500	1	PEDERSEN, CLIFFORD A
NE¼ NW¼	710	IR	1.500	1	ARCHULETA, GEORGE
SE¼ NW¼	701	IR	1.800	1	HELGESSON, LEONARD A TRUSTEE
SE¼ NW¼	702	IR	5.000	1	WICK, AGNES
SE¼ NW¼	705	IR	2.200	1	HELGESSON, LEONARD A TRUSTEE
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	708	IR ID	1.000	1	PEDERSEN, CLIFFORD A
SE¼ NW¼ SE¼ NW¼	709 712	IR IR	1.500	1	HEATH, MICHAEL A
SE1/4 NW1/4	712 713	IR	1.200 6.000	1 1	FAHRENTHOLD, KARL V
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1400	IR	22.000	1	REYNOLDS, JEFFREY E TURNER, NOLAN
1NL:/4 3 W 74	1700	11	22.000	1	TORINER, MOLAIN
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NW¼ SW¼	1000	IR	0.800	1	COOK, RONALD LEE
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1001	IR	0.700	1	COOK, RONALD LEE
NW1/4 SW1/4		IR	1.170	1	MCCOOK, A TUDOR
NW1/4 SW1/4		IR	0.400	1	•
					MCCOOK, A TUDOR
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	0.500	1	PURTZER, JOHN W
NW¼ SW¼	800	IR	1.000	1	HESS, K LARRY
NW¼ SW¼	900	IR	1.000	1	PALMER, KEITH M
SW1/4 SW1/4	1000	IR	0.500	1	PETERSEN, JOHN E
SW1/4 SW1/4		IR	2.000	1	BIBLER, JON
					•
SW1/4 SW1/4		IR	1.500	1	ALDRICH, MICHAEL A
SW1/4 SW1/4	500	IR	2.000	1	MERRICK, GEORGE
SW1/4 SW1/4	600	IR	1.000	1	SIGMUND, VOLNEY
SW1/4 SW1/4	700	IR	1.500	1	SIGMUND, VOLNEY
SE1/4 SW1/4	100	IR	1.000	1	MOLLER, ROLF E
SE¼ SW¼	200	IR	2.000	1	CONNOLLY, TIMOTHY M
NE¼ SE¼	100	IR	0.319	1	THOMPSON, STEVEN E
NE¼ SE¼	1000	IR	0.319	1	CHANDLER, BERNICE
NE¼ SE¼	1200	IR	0.319	1	HAYES, JERRY D
NE¼ SE¼	1300	IR	0.319	1	MORTON, DENNIS
NE1/4 SE1/4	1400	IR	0.319	1	ABERNATHY, CHARLES T
NE1/4 SE1/4	1500	IR	0.319	1	FLEMING, ARTHUR
NE'4 SE'4	1600	IR	0.319	1	POOL, HERBERT H
				1	· · · · · · · · · · · · · · · · · · ·
NE¼ SE¼	1800	IR	0.319	. 1	BISSET, DANIEL D
NE¼ SE¼	1802	IR	0.319	1	MATHEWS FAMILY LIVNG TRST
NE¼ SE¼	1900	IR	0.319	1	WILLIS, KENNETH G
NE1/4 SE1/4	1902	IR	0.319	1	LIBERDA, THEADOR
NE1/4 SE1/4	1903	IR	0.319	1	UTTON, CURTIS J
NE1/4 SE1/4	1904	IR	0.319	1	FRASER, SANDY L
NE¼ SE¼	200	IR	0.319	1	FERNS, TIMOTHY J
					,
NE¼ SE¼	2000	IR	0.319	1	CLONTZ, ALVIE
NE¼ SE¼	2100	IR	0.319	1	MARTINO, ALAN L
NE¼ SE¼	2200	IR	0.319	1	STILES, ROBERT L
NE1/4 SE1/4	2300	IR	0.319	1	EDDINGTON, BRIGHAM Z
NE1/4 SE1/4	2400	IR	0.319	1	HUNTLEY, LARRY L
NE1/4 SE1/4	2500	IR	0.319	1	VICK, RONALD E
NE¼ SE¼	2600	IR	0.319	1	SCHILLING, BILL
					ELLIOTT, DONNA M
NE¼ SE¼	2700	IR	0.319	1	,
NE1/4 SE1/4	2800	IR	0.319	1	FREEMAN, JEFF G
NE¼ SE¼	2900	IR	0.319	1	ERSKINE, JAMES E
NE¼ SE¼	3000	IR	0.319	1	HOENER, JEFFREY E
NE1/4 SE1/4	3100	IR	0.319	1	SIMMONS, ROBERT
NE1/4 SE1/4	3200	IR	0.319	1	DAVIS, GEOFFREY
NE¼ SE¼	3300	IR	0.319	1	PARDEE, CHARLES I
			0.319	1	WHITEID, TROY D
NE¼ SE¼	3400	IR			·
NE¼ SE¼	3500	IR	0.319	1	PARR, RICHARD L
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	3600	IR	0.319	1	MOLDENHAUER, MICHAEL
NE¼ SE¼	3700	IR	0.319	1	BASSLER, RICHARD H
NE1/4 SE1/4	3800	IR	0.319	1	MARKEY, BRIAN L
			0.319	1	KOFFLER, BEVERLY G
NE¼ SE¼	3900	IR	0.319	1	
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	3900 400	IR IR			ŕ
NE¼ SE¼	400	IR	0.319	1	SHOTWELL, SCOTT
NE¼ SE¼ NE¼ SE¼	400 4000	IR IR	0.319 0.319	1 1	SHOTWELL, SCOTT KOESTER, ERIC R
NE¼ SE¼ NE¼ SE¼ NE¼ SE¼	400 4000 4100	IR IR IR	0.319 0.319 0.319	1 1 1	SHOTWELL, SCOTT KOESTER, ERIC R STEVENS, LINDSAY
NE¼ SE¼ NE¼ SE¼ NE¼ SE¼ NE¼ SE¼	400 4000 4100 4200	IR IR IR IR	0.319 0.319 0.319 0.319	1 1	SHOTWELL, SCOTT KOESTER, ERIC R STEVENS, LINDSAY HOWEY, DAVID H
NE¼ SE¼ NE¼ SE¼ NE¼ SE¼	400 4000 4100	IR IR IR	0.319 0.319 0.319	1 1 1	SHOTWELL, SCOTT KOESTER, ERIC R STEVENS, LINDSAY
NE¼ SE¼ NE¼ SE¼ NE¼ SE¼ NE¼ SE¼	400 4000 4100 4200	IR IR IR IR	0.319 0.319 0.319 0.319	1 1 1 1	SHOTWELL, SCOTT KOESTER, ERIC R STEVENS, LINDSAY HOWEY, DAVID H
NE¼ SE¼ NE¼ SE¼ NE¼ SE¼ NE¼ SE¼ NE¼ SE¼ NE¼ SE¼	400 4000 4100 4200 4300 4400	IR IR IR IR IR	0.319 0.319 0.319 0.319 0.319 0.319	1 1 1 1 1	SHOTWELL, SCOTT KOESTER, ERIC R STEVENS, LINDSAY HOWEY, DAVID H HICKMANN, RICHARD L MCGOWEN, DAVID LEE
NE¼ SE¼ NE¼ SE¼ NE¼ SE¼ NE¼ SE¼ NE¼ SE¼ NE¼ SE¼	400 4000 4100 4200 4300 4400 4500	IR IR IR IR IR IR	0.319 0.319 0.319 0.319 0.319 0.319 0.319	1 1 1 1 1 1	SHOTWELL, SCOTT KOESTER, ERIC R STEVENS, LINDSAY HOWEY, DAVID H HICKMANN, RICHARD L MCGOWEN, DAVID LEE RINEHART, RICHARD J
NE¼ SE¼	400 4000 4100 4200 4300 4400 4500 4600	IR IR IR IR IR IR IR	0.319 0.319 0.319 0.319 0.319 0.319 0.319	1 1 1 1 1 1 1	SHOTWELL, SCOTT KOESTER, ERIC R STEVENS, LINDSAY HOWEY, DAVID H HICKMANN, RICHARD L MCGOWEN, DAVID LEE RINEHART, RICHARD J SEEMS, RAYMOND M
NE¼ SE¼	400 4000 4100 4200 4300 4400 4500 4600 4700	IR IR IR IR IR IR IR IR	0.319 0.319 0.319 0.319 0.319 0.319 0.319 0.319	1 1 1 1 1 1 1 1	SHOTWELL, SCOTT KOESTER, ERIC R STEVENS, LINDSAY HOWEY, DAVID H HICKMANN, RICHARD L MCGOWEN, DAVID LEE RINEHART, RICHARD J SEEMS, RAYMOND M MURPHY, JAMES K
NE¼ SE¼	400 4000 4100 4200 4300 4400 4500 4600 4700 4800	IR IR IR IR IR IR IR IR IR	0.319 0.319 0.319 0.319 0.319 0.319 0.319 0.319 0.319	1 1 1 1 1 1 1 1	SHOTWELL, SCOTT KOESTER, ERIC R STEVENS, LINDSAY HOWEY, DAVID H HICKMANN, RICHARD L MCGOWEN, DAVID LEE RINEHART, RICHARD J SEEMS, RAYMOND M MURPHY, JAMES K ICENHOWER, TONI
NE¼ SE¼	400 4000 4100 4200 4300 4400 4500 4600 4700	IR IR IR IR IR IR IR IR	0.319 0.319 0.319 0.319 0.319 0.319 0.319 0.319	1 1 1 1 1 1 1 1	SHOTWELL, SCOTT KOESTER, ERIC R STEVENS, LINDSAY HOWEY, DAVID H HICKMANN, RICHARD L MCGOWEN, DAVID LEE RINEHART, RICHARD J SEEMS, RAYMOND M MURPHY, JAMES K

NE¼ SE¼	500	IR	0.150	1	SHOTWELL, SCOTT
NE¼ SE¼	5000	IR	0.319	1	BALZER, GEORGE E
NE¼ SE¼	5100	IR	0.319	1	PAGE, JERRY L
NE1/4 SE1/4	5200	IR	0.319	î	GORDON, KATHRYN N &
NE¼ SE¼	5300				
		IR	0.319	1	GANGSTEE, ROLAND P
NE¼ SE¼	5400	IR	0.319	1	VANDEHEY, DAIVD M
NE¼ SE¼	5500	IR	0.319	1	BOE, KEVIN V
NE¼ SE¼	5600	IR	0.319	1	WOLF, DAVID G
NE1/4 SE1/4	5700	IR	0.319	1	COULTER, LYNN M
NE1/4 SE1/4	5800	IR	0.319	1	BERGSTRAIN, MARY KATHLEEN
NE1/4 SE1/4	5900	IR	0.319	1	
					LANHAM, RAYMOND G
NE1/4 SE1/4	600	IR	0.319	1	TATE, JAY STEVEN
NE¼ SE¼	6000	IR	0.319	1	SEGERSTROM, RICHARD V
NE¼ SE¼	6100	IR	0.319	1	THOMPSON, REBECCA TAYLOR
NE¼ SE¼	6200	IR	0.319	1	ARNOLD, LORRAINE K
NE¼ SE¼	6300	IR	0.319	1	DOUGHERTY, JILL ELAINE
NE1/4 SE1/4	700	IR	0.319	1	MITCHELL, HAROLD C
NE¼ SE¼	800	IR	0.319	1	WAGGONER, JULL L
					ŕ
NE1/4 SE1/4	900	IR	0.319	1	MONTGOMERY, JERRY A
NW¼ SE¼	1500	IR	3.500	1	HOLLY, WILLIAM J
NW¼ SE¼	1501	IR	7.500	1	STEWART, JACK D
NW¼ SE¼	1502	IR	2.000	1	FORCUM, RICHARD
NW1/4 SE1/4	1503	IR	3.000	1	GUENTHER, EDGAR T JR
NW1/4 SE1/4	1504	IR	1.700	1	HOLT, JESSE R
NW1/4 SE1/4	1505	IR	3.900	1	UPTEGROVE, MELVIN
					· ·
NW¼ SE¼	1506	IR	8.500	1	STEWART, JACK D
SW1/4 SE1/4	100	IR	0.600	1	JOHNSON, VERNON
SW¼ SE¼	1000	IR	0.520	1	JOHNSON, VERNON
SW¼ SE¼	1100	IR	1.000	1	DEKALE, JACQUES A
SW¼ SE¼	1200	IR	1.000	1	CRABTREE, EDSEL D
SW¼ SE¼	1300	IR	1.000	1	COOLEY, JOHN R
SW1/4 SE1/4	1400	IR	0.500	1	BOUCHER, WALTER
SW1/4 SE1/4	1500	IR	0.900	1	OWEN, JUNIOR M
SW1/4 SE1/4	1600	IR	1.000	1	SWANSON, JOHN
SW14 SE14	1700	IR	0.600	1	CORLEY, LES E
					•
SW¼ SE¼	1800	IR	0.500	1	JOHNSON, VERNON
SW1/4 SE1/4	1900	IR	0.500	1	MILLER, GERALD EUGENE
SW¼ SE¼	200	IR	0.940	1	KANE TRUST
SW¼ SE¼	2000	IR	0.400	1	CASHWELL, C GREGORY
SW¼ SE¼	2100	IR	0.400	1	SHORES, LYNN A
SW1/4 SE1/4	2200	IR	0.500	1	CIRCLE, CHERYL LYNN
SW1/4 SE1/4	2300	IR	0.500	1	SAMPLES, HAZEL E ET AL
SW1/4 SE1/4	2400	IR	0.600	1	JOHNSON, VERNON
			0.500		
SW¼ SE¼	2500	IR		1	BERGEN, JAMES V
SW¼ SE¼	2600	IR	0.500	1	MASSINGILL, DAVID JENSSEN
SW1/4 SE1/4	2700	IR	0.500	1	BARNETT, MICHAEL J
SW¼ SE¼	2800	IR	0.500	1	PARRISH, KRISTY
SW¼ SE¼	2900	IR	0.500	1	LOVRIEN, MICHELLE K
SW1/4 SE1/4	300	IR	0.500	1	CARPENTER, KENNETH
SW1/4 SE1/4	3000	IR	0.500	1	JOHNSON, ROBERT D
SW¼ SE¼	3100	IR	0.400	1	GEURTS, CARLTON
	400	IR	0.500	1	MCCOLL, REBECCA
SW¼ SE¼					•
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	500	IR	0.500	1	GILMAN, AL N
SW¼ SE¼	600	IR	0.750	1	LAUDE, DOUGLAS J
SW1/4 SE1/4	700	IR	1.000	1	FARLOW, DANNY
SW¼ SE¼	800	IR	0.750	1	MATTHEWS, RANDALL K
SW1/4 SE1/4	900	IR	0.500	1	HANCOCK, MARY K
SE1/4 SE1/4	1700	IR	35.000	1	J BAR J BOYS RANCH
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NE¼ NE¼	100	IR	3.000	1	HARTJE, KEVIN ET AL
NE¼ NE¼	101	IR	27.500	1	PARR, RICHARD
NW¼ NE¼	201	IR	1.830	1	MCVAY, SHAWN T
SE¼ NE¼	205	IR	6.400	1	CULVER, CHARLES
NE1/4 NW1/4	300	IR	3.100	1	RONNE, LEONARD P
NE¼ NW¼	301	IR	4.500	1	FRICK, BOB
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	302	IR	11.100	1	FRICK, BOB
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	302	PND	0.300	1	FRICK, BOB
NE¼ NW¼	304	IR	4.900	1	STANDIFORD, BRIAN
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	305	IR			
			5.900	1	FRICK, BOB
NE¼ NW¼	305	PND	0.200	1	FRICK, BOB
NW¼ NW¼		IR ID	4.000	1	HAMBY, DELLA
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	19.650	1	ODEGARD, THOMAS
NW¼ NW¼		IR	6.500	1	RODERICK, JACK RAY
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	4.500	1	PEVERIERI, LEONARD
SW1/4 NW1/4		IR	37.400	1	DIAMOND-BEND DEVELOPMENT CO.
SE1/4 NW1/4	303	IR	11.600	1	DIAMOND-BEND DEVELOPMENT CO.
SE¼ NW¼	304	IR	0.500	1	STANDIFORD, BRIAN
SE¼ NW¼	402	IR	1.500	1	DIAMOND-BEND DEVELOPMENT CO.
NE1/4 SW1/4	400	IR	1.760	1	RILEY, THOMAS C
NE1/4 SW1/4	401	IR	1.550	1	PRUITT, MAURICE
NE1/4 SW1/4	600	IR	1.000	1	REDWINE, DEBRA H
NE1/4 SW1/4	700	IR	1.000	1	WAMPLER, NOAH L
NE¼ SW¼	800	IR	2.000	1	BROWNSON, W ORREN
NW1/4 SW1/4		IR	3.200	1	SHEPARDSON, STANLEY
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	2.600	1	HOGUE, TOMMY DALE
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	0.200	1	BINGHAM, ROBERT J
		IR	9.000	1	
NW1/4 SW1/4					PATTERSON, GLENN A JR
NW¼ SW¼		IR ID	3.200	1	PRUITT, MAURICE
NW¼ SW¼		IR	2.200	1	SHEPARDSON, STANLEY
SW1/4 SW1/4		IR	3.000	1	BINGHAM, ROBERT J
SW1/4 SW1/4		IR	1.700	1	SMITH, TRACIE LEE
SW1/4 SW1/4		IR	0.800	1	ADAMS, E M
SW1/4 SW1/4	1800	IR	1.000	1	STORY, TAYLOR L
SW1/4 SW1/4	1900	IR	1.000	1	JONES, AUDREY H TRUSTEE
SW1/4 SW1/4	2000	IR	0.500	1	RATZ, ALFRED
SE1/4 SW1/4	2500	IR	1.000	1	JOHNSON, WILLIAM M
SE1/4 SW1/4	2900	IR	1.000	1	JEFF SHEA LIVING TRUST
SE1/4 SW1/4	3000	IR	1.000	1	THOMPSON, RODNEY D
SE1/4 SW1/4	3200	IR	1.000	1	ENGSTROM, PAUL E
NE1/4 SE1/4	100	IR	5.000	1	KOSINSKI, THOMAS R
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1600	IR	1.000	1	THOBURN, SCOTT R
NE1/4 SE1/4	1800	IR	3.750	1	REILL, DWAYNE A
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	200	IR	1.900	1	SHARPE, DEAN R
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	300	IR	1.250	1	CANTOR, ARTHUR S
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	300	PND	0.500	1	CENTRAL OREGON IRRIGATION
	400	IR	1.340	1	RILEY, THOMAS C
NW1/4 SE1/4					,
NW¼ SE¼	600	IR IB	0.500	1	CLUSTER, ALVIN P
SW1/4 SE1/4	1000	IR	1.000	1	MIERJESKI, EDWARD &
SW1/4 SE1/4	800	IR ID	2.000	l •	JOHNSON, KENNETH R
SE1/4 SE1/4	1400	IR	4.250	1	WALKER, JERRY
				Section 24	
NE¼ NE¼	101	IR	6.500	1	WHITE, CARROLL E
NE1/4 NE1/4	102	IR	14.100	1	COUCH, LEEROY E
NE¼ NE¼	103	IR	7.600	1	STONE, JERRY D
SE1/4 NE1/4	100	IR	3.500	1	BOUSQUET, LAWRENCE ED
SE1/4 NE1/4	103	IR	9.800	1	STONE, JERRY D
SE1/4 NE1/4	104	IR	0.800	1	PRICE, WESLEY B
SE¼ NE¼	105	IR	6.200	1	PRICE, WESLEY B
					•
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SE¼ NE¼	106	IR	0.400	1	COSTLEY, DELIA JILL
SE¼ NE¼	107	IR	0.500	1	BOUSQUET, LAWRENCE ED
SE1/4 NE1/4	108	IR	3.600	1	COSTLEY, DELIA JILL
NW¼ NW½	4 2601	IR	5.000	1	STRUNK, JAMES W
SW1/4 NW1/4	4 2600	IR	13.500	1	BOE, STEPHEN L
SW1/4 NW1/4	2700	IR	14.500	1	BOE, STEPHEN L
NE¼ SE¼	600	IR	32.000	1	FRANKLIN, GEORGE
1,-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	000	***	22.000	Section 25	TRIMEIN, GLOKGE
				5000011 25	
NE¼ NE¼	100	IR	2.000	1	WHIPP, RAY P JR
NE¼ NE¼	101	IR	3.000	1	KARL, VERNETTE
NE¼ NE¼	102	IR	3.000	1	BOICHEL, ALEX
NE¼ NE¼	103	IR	1.250	1	EPPERS, DON R JR
NE¼ NE¼	104	IR	2.500	1	RIES, DARREL R
NE¼ NE¼	105	IR	1.250	1	PATTERSON, EUGENE
NE¼ NE¼	106	IR	2.500	1	MORRISSEY, ROBERT S
NE¼ NE¼	107	IR	5.750	1	BURCH, JERRY L
NE¼ NE¼	109	IR	2.500	1	FUQUA, DONALD K
NW¼ NE¼		IR	8.000	1	JOHNSON, LYLE H
NW¼ NE¼		IR	9.000	1	PATTERSON, EUGENE
NW¼ NE¼		IR	3.000	1	JOHNSON, PATTY
SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	204	IR	3.000	1	•
SW14 NE14		IR	0.100	1	PURCELL, MARY LOU &
SW14 NE14		IR	0.600	1	PURCELL, MARY LOU &
SW14 NE14	3500	IR	0.000	1	LAZY RIVER PROPERTIES
SE'4 NE'4	203	IR	3.500	1	LAZY RIVER PROPERTIES
SE'4 NE'4	203	IR	12.300		HOGUE, JAMES D
				1	PURCELL, MARY LOU &
SE¼ NE¼	205	IR IB	16.600	1 1	PURCELL, MARY LOU &
SE¼ NE¼		IR	0.100	1	LAZY RIVER PROPERTIES
SE¼ NE¼	3500	IR	0.150	1	LAZY RIVER PROPERTIES
NE¼ NW¼		IR	2.500	I 1	CLIFFORD, ELISABETH L
NE¼ NW¼		IR	2.000	1	MARRONE, SAM
NE¼ NW¼		IR	4.000	1	PEZAS, FLORENCE
NE¼ NW¼		IR	2.500	1	ROLLER-MCKAY, ELVA P
NE¼ NW¼		IR	2.000	1	BROOKS, RAY C
NE¼ NW¼		IR	1.400	1	WYLLIE, GARY A
NE¼ NW¼		IR	3.370	l	SMITH, GILLIAN M
NE¼ NW¼		IR	1.300	1	TRAHAN, MARK A
NE¼ NW¼		IR	2.000	1	LA CLAIR, WILLIAM J
NE¼ NW¼		IR	2.000	1	HIGHT, RICHARD B
NE¼ NW¼		IR	1.700	1	FOSTER, DOUGLAS R
NE¼ NW¼		IR	1.500	1	HUITT, GARRY D
NE¼ NW¼		IR	2.700	1	BEAVER, E W
NE¼ NW¼		IR	0.500	1	SHINE, TERRY N
NE¼ NW¼		IR	0.400	1	WYLLIE, GARY A
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>7</sub>		IR	1.500	1	CORNELL, JACK R
NW¼ NW½		IR	0.500	1	CORNELL, JACK R
NW¼ NW½		IR	5.000	1	WILSON, ROBERT E
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>2</sub>		IR	3.000	1	FISCHER, RICHELLE L
SW¼ NW¼	3100	IR	0.600	1	FISCHER, RICHELLE L
SW1/4 NW1/4	504	IR	0.500	1	RAPUE, KARON
SW1/4 NW1/4		IR	0.400	1	FISCHER, RICHELLE L
SW1/4 NW1/4		IR	4.200	1	KATTER, LYLE
SW¼ NW¼		IR	1.000	1	BRILEY, DOROTHY
SW¼ NW¼		IR	0.500	1	BURKE, CARL
SW1/4 NW1/4		IR	0.800	1	KATTER, LYLE
SE¼ NW¼		IR	24.000	1	HARKEY/YOUNG INVESTMENTS
NE1/4 SW1/4	700	IR	7.000	1	ROSS, MAX
NE¼ SW¼	701	IR	3.790	1	MC CUSKER, MICHAEL
NE¼ SW¼	702	IR	4.500	1	PATTERSON, ROBERT D
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NE¼ SW¼	703	IR	4.500	1	THOMAS, WILLIAM B
NE¼ SW¼	704	IR	4.000	1	DRAMEN, DR ARTHUR
NE¼ SW¼	705	IR	5.000	1	BARTLEY, VERN
NE¼ SW¼	706	IR	1.000	1	JESSE E & HELEN M LIVING TRUST
NW1/4 SW1/4	2000	IR	5.000	1	BAILEY, HELEN
SE¼ SW¼	100	IR	2.000	1	HAVNIEAR, LARRY D
SE¼ SW¼	300	IR	5.200	1	O'NEAL, DEAN
SE¼ SW¼	400	IR	2.400	1	EASTMONT CHURCH
NE¼ SE¼	200	IR	1.500	1	GIANOTTI, MICHAEL A
NE¼ SE¼	2100	IR	2.500	1	HORTON, DALE W
NE¼ SE¼	2200	IR	1.000	1	BOSLAND-BRUNO LIVING TRUST
NE1/4 SE1/4	2300	IR	1.000	1	MCBURNETT, M STEVEN
NE¼ SE¼	2500	IR	0.750	1	PATRICK, RYAN
NE¼ SE¼	2600	IR	0.250	1	WILLIAMS, RANDALL R
NE¼ SE¼	2700	IR	5.000	1	SCHULZ, GERALD A
NE¼ SE¼	300	IR	0.250	1	ANDERSON TRUST
NE¼ SE¼	400	IR	0.500	1	DRUTMAN, JEFFREY
NE¼ SE¼	500	IR	0.250	1	SOTH, PHILLIP G
NW¼ SE¼	2800	IR	3.000	1	LARRANETA, MICHAEL J
NW¼ SE¼	3000	IR	2.000	1	WHEELER, GEORGE A
NW¼ SE¼	3100	IR	2.500	1	PAYNE, WALTER
NW¼ SE¼	3101	IR	2.000	1	DUNDAS, ROBERT S
NW¼ SE¼	3102	IR	0.500	1	DUNDAS, ROBERT S
NW¼ SE¼	3200	IR	3.500	1	MCALLISTER, ETIENNE E
NW¼ SE¼	3300	IR	3.500	1	HEIMBUCH, HOWARD
NW¼ SE¼	3400	IR	4.000	1	ROOKS, MARK W
NW¼ SE¼	3500	IR	4.000	1	DAVIS, LEE R
SW1/4 SE1/4	3800	IR	2.400	1	REINHART, ARNOLD D
SW1/4 SE1/4	3900	IR	1.600	1	SMARTT, MICHAEL W
SW¼ SE¼	4000	IR	1.400	1	CLAUSEN, GARY L
SW1/4 SE1/4	4100	IR	2.100	1	CLAUSEN, GARY L
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	4200	IR	2.000	1	ULLEDAHL, JOEL H
SW1/4 SE1/4	4301	IR	2.500	1	ZITNIK, JOACHIM
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	4302	IR	2.500	1	ZITNIK, JOACHIM
SW1/4 SE1/4	4400	IR	1.500	1	MCWHORTON, ROBERT K
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	4500	IR	1.800	1	NIMMO, ROBERT
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	4502	IR	1.900	1	BIRCH, JOHN
SE¼ SE¼	1000	IR	0.250	1	MCCLURE, WILLIAM
SE¼ SE¼	1100	IR	0.250	1	O'BRIEN, EDWARD &
SE¼ SE¼	1300	IR	0.500	1	SKOVBORG, LAWRENCE D
SE¼ SE¼	1500	IR	0.500	1	DONLEY, MICHAEL
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1600	IR	1.500	1	DERTINGER, ALAN L &
SE¼ SE¼	1800	IR	0.250	1	KERR, DENNIS C
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1900	IR	0.250	1	PARKS, JERRY K
SE¼ SE¼	2000	IR ID	0.250	1	SMITH, DONALD
SE¼ SE¼	600	IR	1.000	1	BROWN, PATRICK
SE¼ SE¼	700	IR	0.250	1	SMITH, CRAIG G
SE¼ SE¼	800	IR	0.250	1	TISHER, KENNETH R
				Section 26	
CEL/NUM/	500	ID	<i>5.500</i>	1	DDICCG DICHARD
SE¼ NW¼ SE¼ NW¼	500 600	IR IR	5.500 1.600	1 1	BRIGGS, RICHARD RIPPY, FRANKIE G &
					•
SE¼ NW¼ SE¼ NW¼	603 800	IR IR	1.400 3.590	1 1	RIPPY, FRANKIE G & BERNHARDT CONSTRUCTION
SE/4 N W /4 SW 1/4 SW 1/4		IR IR	3.390 1.300	1	BROWN, DANIEL F
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR IR	3.000	1	LEE, WILLIAM RICHARD
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	1.000	1	DE ALICANTE, MARCEL R
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	1.000	1	CONARD, MARSHALL
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	1.750	1	CONARD, MARSHALL
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	1.730	1	NELSON, REED
D 11 /4 D 11 /4	5200	110	1,000	1	
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SE1/4 SW1/4	4000	IR	1.400	1	BROWN, DANIEL F
SE1/4 SW1/4	4000	PND	0.300	1	BROWN, DANIEL F
SE1/4 SW1/4	4100	IR	6.000	1	LEE, WILLIAM RICHARD
SW1/4 SE1/4	1200	IR	3.200	1	SISTERS OF ST JOSEPH
SW1/4 SE1/4	1200	PND	1.800	1	SISTERS OF ST JOSEPH
SW1/4 SE1/4	1201	IR	0.500	1	SISTERS OF ST JOSEPH
SE¼ SE¼	1200	IR	1.500	1	SISTERS OF ST JOSEPH
				Section 27	
NE1/4 NE1/4	5200	IR	1.000	1	OSBORNE, GLENN
NE¼ NE¼	5700	IR	0.500	1	TAYLOR, JEFFREY W
NE¼ NE¼	5800	IR	0.900	1	ANDERSON, LOREN R
SW¼ NE¼	1001	IR	0.500	1	CHILD, GARY F
SW1/4 NE1/4	400	IR	1.000	1	CARDER, BERT
SW¼ NE¼	500	IR	1.500	1	THALHOFER, JOSEPH
SW¼ NE¼	700	IR	2.200	1	MCCOOL, ROBERT J
SW1/4 NE1/4	828	IR	0.360	1	STEINERT, KIRK B
SW¼ NE¼	900	IR	0.700	1	SWANSON, DONALD H
SE¼ NE¼	9200	IR	1.500	1	CHURCH OF JESUS CHRIST
SE¼ NE¼	9300	IR	0.500	1	HOOVER, LYNN
SE1/4 NW1/4	5500	IR	2.000	1	MIDSTATE CHILD DEVELOPMENT INC
SE1/4 NW1/4	7800	IR	0.400	1	COYNER, CRAIG
SE1/4 NW1/4	8000	IR	0.100	1	CAMPBELL, THOMAS E
SE1/4 NW1/4	8000	PND	0.500	1	CAMPBELL, THOMAS E
NE1/4 SW1/4	102	IR	0.560	1	RAUCH, LARRY A
NE¼ SW¼	1100	IR	2.020	1	COUCH, MAHLON
NE¼ SW¼	200	IR	1.860	1	CLEVELAND, GEORGE
NE1/4 SW1/4	400	IR	1.900	1	COYLE, GEORGE
NE1/4 SW1/4	500	IR	2.140	1	MODJESKI, R JOSEPH
NE1/4 SW1/4	702	IR	2.500	1	MIX, MARVIN
NE1/4 SW1/4	703	IR	0.500	1	MIX, MARVIN
NE1/4 SW1/4	801	IR	0.500	. 1	HARDCASTLE, JEFFREY M
NE¼ SW¼	900	IR	0.500	1	ANDREWS, THOMAS M
NE¼ SE¼	4900	IR	0.900	1	BEND METRO PARK & REC.
NE1/4 SE1/4	4901	IR	1.680	1	BEND METRO PARK & REC.
NE¼ SE¼	4902	IR	5.100	1	BEND METRO PARK & REC.
NW¼ SE¼	100	IR	0.150	1	MULROONEY, MICHAEL
NW¼ SE¼	1100	IR	0.800	1	SMITH, INGRID K
NW¼ SE¼	1200	IR	0.800	1	ALLEN, JIM
NW¼ SE¼	1201	IR	1.100	1	ROSE, CLIFFORD
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1300	IR	1.300	1	CLOWERS, GORDON W
NW¼ SE¼	200	IR	0.800	1	JENSEN, LOWELL
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	300	IR	1.000	1	BLACKWELL, TERRY
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	301	IR	1.000	1	JENSEN, ROBERT L
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	400	IR	0.700	1	DUBEROW, B G
NW¼ SE¼	500	IR	1.400	1	PIERATT, TOM
NW¼ SE¼	501	IR	1.400	1	PIERATT, TOM
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	600	IR	0.380	1	KOZAK, MICHAEL
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	601	IR	0.750	1	KOZAK, MICHAEL
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	700	IR	0.390	1	ELLIS, DR WILLIAM
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	701	IR	0.150	1	ELLIS, DR WILLIAM
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	800	IR	0.700	1	ELLIS, DR WILLIAM
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	801	IR	0.450	1	ELLIS, DR WILLIAM
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	900	IR	0.520	1	ELLIS, DR WILLIAM
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	901	IR	2.300	1	ELLIS, DR WILLIAM
				Section 28	
NIDI/NIDI/	600	ID	0.600	10	DIVEDIG EDGE INIVEGEN ADVEG
NE¼ NE¼	600	IR IB	0.600	10	RIVER'S EDGE INVESTMENTS
NE¼ NE¼	604 604	IR ID	0.200	10 10	RIVER'S EDGE INVESTMENTS RIVER'S EDGE INVESTMENTS
NW¼ NE¼	604	IR	8.100	10	MAEVO FORE INAFOLINENTO
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NW1/4 NE1/4 (	606 IR	1.200	10	RIVER'S EDGE INVESTMENTS
SW1/4 NE1/4	604 IR	3.600	10	RIVER'S EDGE INVESTMENTS
SW1/4 NE1/4 6	606 IR	0.900	10	RIVER'S EDGE INVESTMENTS
SE1/4 NE1/4	606 IR	1.400	10	RIVER'S EDGE INVESTMENTS
	102 IR	1.400	10	RIVER'S EDGE INVESTMENTS
	103 IR	10.646	10	RIVER'S EDGE INVESTMENTS
	103 IR	4.637	10	
	103 IR	2.799		RIVER'S EDGE INVESTMENTS
	103 IR	4.100	10	RIVER'S EDGE INVESTMENTS
	102 IR		10	RIVER'S EDGE INVESTMENTS
SE/4 IN W 74	103 IK	7.071	10	RIVER'S EDGE INVESTMENTS
			Section 29	
SE¼ SE¼ 56	600 IR	0.600	2	DEND METRO BARK & REC
	600 IR	1.100	3	BEND METRO PARK & REC.
	700 IR		3	BEND METRO PARK & REC.
SE74 SE74	00 IK	0.400	3	BEND METRO PARK & REC.
			Section 31	
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 40	001 IR	1 100	7	DEND METRO DARK & DEG
		1.100	7	BEND METRO PARK & REC.
	00 IR	4.200	7 & 8	BEND METRO PARK & REC.
SW1/4 NW1/4 42		0.600	6	BEND METRO PARK & REC.
SW1/4 NW1/4 47		6.100	4 & 5	BEND METRO PARK & REC.
SW1/4 NW1/4 48		4.100	6	BEND METRO PARK & REC.
	00 IR	3.100	4 & 5	BEND METRO PARK & REC.
	000 MU		4	CITY OF BEND
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 47		2.700	4 & 5	BEND METRO PARK & REC.
SW¼ SW¼ 190		0.500	2	FIFTEEN SW COLORADO
SE¼ SW¼ 190	000 IR	0.100	2	FIFTEEN SW COLORADO
			Section 32	
Maria Maria	00 ID	0.700		
	00 IR	0.500	1	BEND SCHOOL DIST
NE¼ NE¼ 1	04 IR	3.100	1	BEND SCHOOL DIST
			Section 33	
SW¼ NE¼ 12	00 IR	1.400	1	WILLIAMSON, E W
	000 IR	3.000	1	,
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 18				SU, AMBROSE
		2.800	1	BEND SCHOOL DIST
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 18		0.900	1	BEND SCHOOL DIST
	000 IR	0.800	1	ARNETT, SHELDON
	002 IR	0.400	1	ARNETT, SHELDON
	003 IR	0.100	1	ARNETT, SHELDON
	00 IR	1.000	1	MERRITT, DOTSON
	00 IR	3.000	1	MERRITT, DOTSON
	00 IR	0.500	1	FURLOTT, CLIFFORD D
	00 IR	3.000	1	LANCET, A LINCOLN
	00 IR	11.200	1	WILLIAMSON, E W
	00 PND		1	WILLIAMSON, E W
	05 IR	0.250	1	WILLIAMSON, E W
	00 IR	0.500	1	BARNCORD, ROBERT R
$SW^{1/4}SE^{1/4}$ 12	00 IR	1.590	1	MILLS, MICHAEL W
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 13	00 IR	1.500	1	LOWERY, LARRY
SW¼ SE¼ 14	·00 IR	2.350	1	STOKES, TOM A
SW¼ SE¼ 15	00 IR	1.810	1	CLARK, ALVIN
SW¼ SE¼ 16	00 IR	0.500	1	BANGS, LARRY G
SW¼ SE¼ 16	01 IR	1.500	1	BANGS, LARRY G
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 16	02 IR	0.900	1	PENHOLLOW, TERRY
SW¼ SE¼ 16	603 IR	0.500	1	PENHOLLOW, TERRY
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 18	00 IR	2.400	1	JENSEN, RONALD L
	'00 IR	1.750	1	WILLIVER, STERLING
	000 IR	1.500	1	GREGORY, JOHN R
	'01 IR	1.000	1	BREITENSTEIN, RONALD
				, ==

	SW1/4 SE1/4	001	ID	0.000	•	LONDO WALLEDON	
		801 1000	IR	0.900	1	JONES, WALTER	
	SE¼ SE¼		IR	5.600	1	SCOTT, STEVE C	
	SE¼ SE¼	1200	IR	1.400	1	EMICK, JACK L ET AL	
	SE¼ SE¼	1300	IR	3.500	1	WESTERMEYER, DANIEL M	
	SE1/4 SE1/4	900	IR	0.800	1	BLACKBURN, WILLIAM	
					Section 34		
	>1111/1/ >1171/	1500	T.D.	• • • • •			
	NW¼ NE¼	1702	IR	2.000	1	MEECE, BRIAN	
	SE¼ NE¼	1300	IR	17.000	1	MORRIS, ALAN G	
	SE¼ NE¼	1301	IR	6.000	1	ROGERSON, RICK	
	SW¼ NW¼	200	IR	6.500	1	VVI LTD LIABILITY COMPAN	ΙY
	SW¼ NW¼	201	IR	7.500	1	SCHLIEP, STANLEY R TRUST	EE
	SW¼ NW¼	202	IR	0.700	1	VVI LTD LIABILITY COMPAN	ΙY
	NE¼ SW¼	600	IR	0.300	1	KIRK, RUSSELL A	
	NE¼ SW¼	801	IR	0.700	1	KIRK, RUSSELL A	
	NE¼ SW¼	802	IR	3.600	1	JONES, DAVID	
	NE¼ SW¼	803	IR	3.000	1	ENGLISH, GARY S	
	NE1/4 SW1/4	880	IR	3.600	1	ENGLISH, GARY S	
	NE1/4 SW1/4	890	IR	1.500	1	HUNT, DEAN	
	NE1/4 SW1/4	891	IR	1.500	1	HUNT, DEAN	
	SW1/4 SW1/4	402	IR	3.000	1	LITCHFIELD, RALPH	
	SW1/4 SW1/4	403	IR	2.000	1	BEND CHRISTIAN CENTER	
	SW1/4 SW1/4	404	IR	1.500	1	BRADETICH, PHILIP	
	SW1/4 SW1/4	407	IR	1.500	1	SLATE, CARL	
	SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	500	IR	1.000	1	ENGLISH, GARY S	
	SE'4 SW'4	501	IR	5.000	1	JONES, DAVID A	
	SE1/4 SW1/4	503	IR	0.700	1	SHERMAN, GERALD	
	SE1/4 SW1/4	504	IR	4.000	1	NIPPER, ROBERT L	
	SE14 SW14	505	IR	8.000		•	
					1	ENGLISH, GARY S	ID OI I
	SE¼ SW¼	506	IR	4.000	1	BEND FREE METHODIST CHU	IRCH
	SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	508	IR ID	0.300	1	YACKLEY, BECKY JOANN	
	SE¼ SW¼	509	IR IR	1.100	1	WILSON, JANE	
	NE¼ SE¼	1401	IR	1.000	1	DULIN, GLENN	
	NE¼ SE¼	1402	IR	1.500	1	WIRGES, MARJORIE M	
	NE¼ SE¼	1403	IR	4.000	1	MAYER, WILLIAM D	
	NW¼ SE¼	1100	IR	1.000	1	SHOLES, FORREST	
	NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1205	IR	1.500	1	LEGG, GALEN L	
	NW¼ SE¼	900	IR	6.000	1	LEE, JANET KAY	
	SW1/4 SE1/4	1500	IR	9.250	1	ENSWORTH, JOHN	
	SW¼ SE¼	1500	PND	9.750	1	ENSWORTH, JOHN	
	SE1/4 SE1/4	1600	IR	23.000	1	BOESE, RALPH	
	SE¼ SE¼	1601	IR	2.000	1	RAPPLEYEA, LENOMA LYNN	•
					Section 35		
	NW¼ NW¼	600	IR	1.000	1	CARR, RICHARD	
	NE1/4 SW1/4	801	IR	4.000	1	CHRISTIAN LIFE CENTER	
	SW1/4 SE1/4	1300	IR	0.700	1	CROWN EQUITY, INC	
	SW1/4 SE1/4	1301	IR	9.700	1	WESTON, GLORIA	
	SW1/4 SE1/4	1302	IR	4.800	1	WESTON, GLORIA	
	SE¼ SE¼	1400	IR	2.800	1	IZO, FRANK	
	SE1/4 SE1/4	1401	IR	3.800	1	CROWN EQUITY, INC	
	SE¼ SE¼	1402	IR	2.500	1	SPENCE, KENNY R	
	SE¼ SE¼	1403	IR	5.200	1	CROWN EQUITY, INC	
	SE¼ SE¼	1404	IR	3.500	1	GETZ, MELVILLE J TRUST	
	5E/4 5E/4	1101	110	5.500	Section 36	GE12, WILL VILLE 3 TROOT	
				Township 1	7 South, Range 1	2 Fast W M	
				10 wiisiiib 1	. , bount, Range 1	L Dast, W. IVI.	
	SW1/4 SE1/4	300	IR	3.000	1	THE MOORE FAMILY TRUST	
	SW14 SE14	400	IR	4.500	1	KELLY, MICHAEL P	
	SW14 SE14 SW14 SE14	500	IR	2.000	1	COVEY, PHILLIP R. ESTATE	
	O 17 /4 OE/4	200	110	2.000	1	COVET, FILLER R. ESTATE	
,	D21111 1				D 54 0105		<b>5</b>
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SW1/4 SE1/4	600	IR	2.000	1	MAHONEY, GLENDA MAUREEN
SW1/4 SE1/4	700	IR	9.000	1	MADDUX, THOMAS
				Section 17	
<b>~~~</b>					
SW1/4 NW1/4	700	IR	10.000	1	OLIVER, STANLEY
SW1/4 NW1/4	701	IR	1.500	1	TARBET, DALE
NW1/4 SW1/4	800	IR	16.500	1	UMSTED, JERRY
NW¼ SW¼	802	IR	6.000	1	TRIPLETT, GUY H III
SW1/4 SW1/4	1000	IR	5.800	1	BULLIS, HARRY
SW1/4 SW1/4	900	IR	2.200	1	BULLIS, HARRY
SW1/4 SW1/4	901	IR	10.000	1	ZIMMER, MONA
NE¼ SE¼	100	IR	11.900	1	SMEAD, IRENE L
NE¼ SE¼	200	IR	15.100	1	SMEAD, IRENE L
NW1/4 SE1/4	400	IR	1.000	1	A'NEAL, WAYNE W
NW¼ SE¼	401	IR	3.000	1	LANE, WILLIAM H
NW¼ SE¼ NW¼ SE¼	402 403	IR IR	3.000 1.000	1 1	MERRELL, DONALD L
SW1/4 SE1/4	1200	IR	1.000	1	KIRKPATRICK, JEFFERY D
SW1/4 SE1/4	1300	IR	1.000	1	CALLAHAN, DONALD A
SW14 SE14 SW14 SE14	1400	IR	1.000	1	HIGHAM, MICHAEL E WILKE, DAVID M
SW /4 SE /4 SW /4 SE /4	1500	IR	2.000	1	WILKE, DAVID M WILKE, LAWRENCE G SR
SW /4 SE /4 SW /4 SE /4	1600	IR	1.000	1	AMBERSON, MARK W
SW /4 SE /4 SW /4 SE /4	1700	IR	1.000	1	BARTEL, MARVIN R
SW1/4 SE1/4	1800	IR	1.000	1	HANSEN, STEPHEN G
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1900	IR	1.000	1	PULZONE, JAMES M
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	2000	IR	1.000	1	PELHAM, JACKIE LEE
SW1/4 SE1/4	201	IR	1.500	1	SHAW, GEORGE E
SW1/4 SE1/4	2100	IR	1.000	1	SEARS, KENNETH W
SW1/4 SE1/4	2200	IR	1.000	1	WILLIAMSON, WILLIAM TUCKER
SW1/4 SE1/4	2300	IR	1.000	1	CURRY, MICHAEL J
SW1/4 SE1/4	2400	IR	1.000	1	STOWE, RONALD
SW1/4 SE1/4	2500	IR	1.000	1	HAMILTON, DAVID J &
SW1/4 SE1/4	300	IR	1.000	1	MAGNUSON, VYRLEE
SE1/4 SE1/4	202	IR	6.800	1	ASCHOFF, MARK
SE¼ SE¼	203	IR	2.200	1	WATERMAN, ROBERT
SE1/4 SE1/4	204	IR	13.000	1	SMEAD, IRENE L
				Section 18	
NE¼ NE¼	102	IR	18.000	1	BRILEY, ROBERT R
NE¼ NE¼	103	IR	2.500	1	SCHMIDT, AUGUST W
NE¼ NE¼	104	IR	0.440	1	GARZINI, RONALD A
NE¼ NE¼	105	IR	2.000	1	DANIELS, EDNA
NE¼ NE¼	112	IR	0.500	1	KREPS, JILL L
NE¼ NE¼	113	IR	0.400	1	COOK, STANLEY
NE¼ NE¼	114	IR	0.380	1	MAROLD, ROBERT E
NE¼ NE¼	116	IR	3.000	1	CHESTER, WILLIAM R
NE¼ NE¼	117	IR	0.620	1	HODSON, KENNETH W
NE¼ NE¼	119	IR	5.000	1	BRILEY, ROBERT R
NW¼ NE¼	101	IR ID	3.000	1	CARR, ROBERT F
NW¼ NE¼	104	IR ID	2.160	1	GARZINI, RONALD A
NW14 NE14	106	IR IR	1.000 2.000	1	YOUNGBLOOD, ANDREW WILLEY, BRIAN H
NW¼ NE¼ NW¼ NE¼	107 108	IR	2.000	1 1	JUHL, THEODORE CARL
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	108	IR	4.400	1	ROSENBROCK, MICHAEL & BARBARA
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	110	IR	1.000	1	COURTNEY, JOYCE A
NW1/4 NE1/4 NW1/4 NE1/4	110	IR	1.000	1	COURTNEY, RAYMOND H
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	111	IR	0.750	1	SCOTT, HOWARD LEE
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	111	IR	1.000	1	KREPS, JILL L
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	113	IR	0.350	1	COOK, STANLEY
NW¼ NE¼	114	IR	0.370	1	MAROLD, ROBERT E
1111/41111/4		-11	3.570	•	
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NW¼ NE¼	115	IR	0.750	1	HEUSTON, B H
NW¼ NE¼	117	IR	0.880	1	HODSON, KENNETH W
NW¼ NE¼	118	IR	3.000	1	EMERSON, RALPH
SW1/4 NE1/4	1101	IR	3.500	1	CROSSAN, TERRY G
SW1/4 NE1/4	1102	IR	10.500	1	WAMPLER, JOSEPH
SW1/4 NE1/4	1103	IR	4.000	1	GIBSON, STEVEN J
SW1/4 NE1/4	1104	IR	3.000	1	POOL, HERBERT H
SW1/4 NE1/4	1105	IR	5.000	1	FIELD, KEVIN
SE¼ NE¼	1100	IR	8.700	1	CRONEN, DARYL C, ET AL
SE¼ NE¼	1106	IR	5.000	1	BUCKNER, ORVILLE K II ET AL
SE¼ NE¼	1107	IR	7.100	1	HUGHES, GARY D
NE1/4 NW1/4	200	IR	12.130	1	ECKSTEIN, JAMES
NE1/4 NW1/4	201	IR	12.000	1	KULYIK, STEPHEN J
NW¼ NW¼		IR	1.500	1	MOSLEY, MAX
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	7.500	1	CUTTER, DOLORES
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	1.500	1	JOHANSEN, GARY
NW1/4 NW1/4		IR	0.500	1	CUTTER, MATTHEW D
SW1/4 NW1/4		IR	2.000	1	REUBER, WALTHER J
SW1/4 NW1/4		IR	2.500	1	CHASE, DANIEL G
SW1/4 NW1/4		IR	1.500	1	•
SW1/4 NW1/4		IR	3.000	1	HEINRICH, RALPH J
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR			BUTLER, BILLIE L
		IR	10.000	1	COATS, GOLDIE &
SE' <sub>4</sub> NW' <sub>4</sub>	1000		3.000	1	FLOYD, JAMES S
SE¼ NW¼	800	IR IR	13.000	1	BOWE, DEBRA J
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	900	IR ID	9.000	1	ZULLO, SAM J
SE¼ NW¼	901	IR ID	8.000	1	HOBSON, HENRY C
NE¼ SW¼	1301	IR ID	4.000	1	DAVIS, KENNETH I
NE¼ SW¼	1303	IR ID	6.450	1	FLACK, CHARLES N
NE¼ SW¼	1304	IR	1.550	1	PAGE, DONALD L &
NE¼ SW¼	1306	IR	3.500	1	DAVIS, KENNETH I
NE¼ SW¼		IR	1.000	1	TUCKER, NORMA A
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1309	IR	1.000	1	THOMPSON, DANIEL P
NE1/4 SW1/4	1310	IR	6.500	1	MAGNUSON, MICHAEL L
	1311	IR	3.000	1	MUELLER, PATRICIA A
NW¼ SW¼		IR	23.000	1	CRONEN, CONLEY
SW1/4 SW1/4		IR	5.000	1	NEWER, ROBERT J
SW1/4 SW1/4	1501	IR	8.000	1	VERTNER, VICTOR D
SW1/4 SW1/4	1502	IR	6.000	1	WORLEIN, JOSEPH
SW1/4 SW1/4	1503	IR	3.000	1	VAN LIEW, DONALD
SW1/4 SW1/4	1504	IR	3.000	1	SCHMITT, LOUIS G
SE¼ SW¼	1600	IR	4.000	1	WYMAN, RICHARD S III
SE¼ SW¼	1601	IR	5.700	1	KABER, SCOTT D
SE1/4 SW1/4	1602	IR	8.500	1	WILKE, LAWRENCE G SR
SE1/4 SW1/4	1603	IR	9.500	1	WYMAN, RICHARD S III
SE1/4 SW1/4	1604	IR	4.800	1	POOL, HERBERT H
NE1/4 SE1/4	1200	IR	14.600	1	BOYD, DOUGLAS C
NE1/4 SE1/4	1201	DUST	0.400	1	HENLEY, GARY C
NE¼ SE¼	1201	IR	19.600	1	HENLEY, GARY C
NE1/4 SE1/4	1202	IR	1.400	1	BOYD, DOUGLAS C
NW1/4 SE1/4	1300	IR	2.000	1	TORBETT, DONALD L
NW1/4 SE1/4	1302	IR	12.700	1	JOHNSON, J VERNON
NW1/4 SE1/4	1312	IR	8.000	1	BIANCHI, LOUIS A
SW1/4 SE1/4	1700	IR	18.000	1	WOODS, GLENN
SW1/4 SE1/4	1702	IR	6.000	1	SHORT, JOHN A
SW1/4 SE1/4	1704	IR	6.000	1	LEONE, DANIEL J &
SE1/4 SE1/4	1800	IR	18.000	1	SPEAR, STEVE &
SE1/4 SE1/4	1801	IR	18.000	1	YORK, DAVID
				Section 19	
NE1/4 NE1/4	104	IR	20.000	1	MARACCINI, VESTA LEE TRUSTEE
				_	
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NW¼ NE¼ 101				
	IR	18.000	1	THE MOORE FAMILY TRUST
SW1/4 NE1/4 102	IR	20.000	1	ROGERS, DEAN L
SE¼ NE¼ 100	IR	11.000	1	THERRIAULT, DONA RAE
SE¼ NE¼ 105	IR	14.000	1	FLOYD, JAMES S
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 200	PND	2.500	1	CITY OF BEND
NE¼ SW¼ 400		29.900	1	GIBSON, MARJORIE
NE¼ SW¼ 400		3.700	1	GIBSON, MARJORIE
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 400		23.400	1	GIBSON, MARJORIE
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 401		14.500	1	CITY OF BEND
SW1/4 SW1/4 500		28.600	1	DAVIS, RICHARD NEIL
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 500		31.400	1	DAVIS, RICHARD NEIL
NE¼ SE¼ 1000		3.000	1	DOUGHERTY, ROBERT
NE¼ SE¼ 1101		3.000	1	WARREN, DAVID S
NE¼ SE¼ 1102		1.400	1	FINE, MATHEW R
NE¼ SE¼ 1103	IR	1.700	1	ROCK, FRED
NE¼ SE¼ 1105	IR	3.000	1	WHYBRA, MARC STEPHEN
NE¼ SE¼ 1106	IR	1.600	1	FINE, MATHEW R
NE¼ SE¼ 1201	IR	1.800	1	NIGHTINGALE, JAMES A.S.
NE¼ SE¼ 801	IR	1.000	1	HARTMAN, GREGORY
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 802		2.500	1	ALDRICH, PERRY
NE¼ SE¼ 803		1.000	1	O'TOOLE, PAT
NE'4 SE'4 901		6.000	î	REED, LOUIS C
NW'4 SE'4 700		27.500	1	ELSHOFF, CAL
		0.500	1	ELSHOFF, CAL
				-
SE'4 SE'4 1103		0.300	1	ROCK, FRED
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 110 <sup>2</sup>		2.000	1	DICK, TERRY
SE¼ SE¼ 1201		1.200	1	NIGHTINGALE, JAMES A.S.
$SE^{1/4}SE^{1/4}$ 1300		5.000	1	SANTA CRUZ, CAROLYN
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1400		3.000	1	SCHMIDLING, CLIFFORD E
SE¼ SE¼ 1500		0.200	1	PHILLIPS, MARC ALLAN
SE¼ SE¼ 1700	IR	7.000	1	GILBIRDS, RALPH
SE¼ SE¼ 1800	IR	1.800	1	PHILLIPS, MARC ALLAN
			Section 20	
SW1/4 NE1/4 200	) IR	17.000	1	PREWITT, WILLIAM
SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 201	IR	13.000	1	PREWITT, WILLIAM
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 500	IR	8.000	1	HOOVER, PETER J
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 700		14.500	1	WELBOURN, DENNIS J
SW¼ NW¼ 1000			1	,
SW¼ NW¼ 1000	) IR	5.000	1 1	CUMMINS, DEWEY
SW¼ NW¼ 100	IR IR	5.000 8.000	1	CUMMINS, DEWEY SPORALSKY, KENNETH F
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 100° SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 110°	IR IR IR	5.000 8.000 4.300	1 1	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD
SW¼ NW¼ 1003 SW¼ NW¼ 1100 SW¼ NW¼ 900	IR IR IR IR IR	5.000 8.000 4.300 5.000	1 1 1	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY
SW¼ NW¼ 1003 SW¼ NW¼ 1100 SW¼ NW¼ 900 NE¼ SW¼ 1300	IR I	5.000 8.000 4.300 5.000 2.000	1 1 1 1	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL
SW¼ NW¼ 1003 SW¼ NW¼ 1100 SW¼ NW¼ 900 NE¼ SW¼ 1300 NE¼ SW¼ 130	IR	5.000 8.000 4.300 5.000 2.000 2.000	1 1 1 1	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL CRESS, DANIEL B
SW¼ NW¼ 1000 SW¼ NW¼ 1100 SW¼ NW¼ 900 NE¼ SW¼ 1300 NE¼ SW¼ 130 SE¼ SW¼ 1300	IR I	5.000 8.000 4.300 5.000 2.000 2.000 2.000	1 1 1 1 1	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL CRESS, DANIEL B MATSUKADO, WILLIAM M
SW¼ NW¼ 1003 SW¼ NW¼ 1100 SW¼ NW¼ 900 NE¼ SW¼ 1300 NE¼ SW¼ 130	IR I	5.000 8.000 4.300 5.000 2.000 2.000	1 1 1 1 1 1	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL CRESS, DANIEL B
SW¼ NW¼ 1000 SW¼ NW¼ 1100 SW¼ NW¼ 900 NE¼ SW¼ 1300 NE¼ SW¼ 130 SE¼ SW¼ 1300	IR I	5.000 8.000 4.300 5.000 2.000 2.000 2.000	1 1 1 1 1	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL CRESS, DANIEL B MATSUKADO, WILLIAM M
SW¼ NW¼ 1000 SW¼ NW¼ 1100 SW¼ NW¼ 900 NE¼ SW¼ 1300 NE¼ SW¼ 1300 SE¼ SW¼ 1300 NW¼ SE¼ 1400	IR I	5.000 8.000 4.300 5.000 2.000 2.000 2.000 6.000	1 1 1 1 1 1 Section 21	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL CRESS, DANIEL B MATSUKADO, WILLIAM M PREWITT, WILLIAM
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 100 1 SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1100 SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 900 NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1300 NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1300 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1300 NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1400 NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1400 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200 NW <sup>1</sup> / <sub>4</sub> NE	IR I	5.000 8.000 4.300 5.000 2.000 2.000 2.000 6.000	1 1 1 1 1 1 Section 21	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL CRESS, DANIEL B MATSUKADO, WILLIAM M PREWITT, WILLIAM
SW¼ NW¼ 1000 SW¼ NW¼ 1100 SW¼ NW¼ 900 NE¼ SW¼ 1300 NE¼ SW¼ 1300 SE¼ SW¼ 1300 NW¼ SE¼ 1400 NW¼ SE¼ 1400 NW¼ NE¼ 200 NE¼ NW¼ 200	IR I	5.000 8.000 4.300 5.000 2.000 2.000 6.000 30.000 18.000	1 1 1 1 1 1 Section 21	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL CRESS, DANIEL B MATSUKADO, WILLIAM M PREWITT, WILLIAM  JONES, REBECCA L JONES, REBECCA L
SW¼ NW¼ 1002 SW¼ NW¼ 1100 SW¼ NW¼ 900 NE¼ SW¼ 1300 NE¼ SW¼ 1300 SE¼ SW¼ 1300 NW¼ SE¼ 1400 NW¼ NE¼ 200 NE¼ NW¼ 200 NE¼ NW¼ 200	IR I	5.000 8.000 4.300 5.000 2.000 2.000 6.000 30.000 18.000 7.000	1 1 1 1 1 1 Section 21	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL CRESS, DANIEL B MATSUKADO, WILLIAM M PREWITT, WILLIAM  JONES, REBECCA L JONES, REBECCA L GUAJARDO, FRED
SW¼ NW¼ 1000 SW¼ NW¼ 1100 SW¼ NW¼ 900 NE¼ SW¼ 1300 NE¼ SW¼ 1300 SE¼ SW¼ 1300 NW¼ SE¼ 1400 NW¼ SE¼ 1400 NW¼ NE¼ 200 NE¼ NW¼ 200	IR I	5.000 8.000 4.300 5.000 2.000 2.000 6.000 30.000 18.000 7.000 5.000	1 1 1 1 1 1 Section 21	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL CRESS, DANIEL B MATSUKADO, WILLIAM M PREWITT, WILLIAM  JONES, REBECCA L JONES, REBECCA L GUAJARDO, FRED RAY, CRAIG S
SW¼ NW¼ 1002 SW¼ NW¼ 1100 SW¼ NW¼ 900 NE¼ SW¼ 1300 NE¼ SW¼ 1300 SE¼ SW¼ 1300 NW¼ SE¼ 1400 NW¼ NE¼ 200 NE¼ NW¼ 200 NE¼ NW¼ 200	IR I	5.000 8.000 4.300 5.000 2.000 2.000 6.000 30.000 18.000 7.000	1 1 1 1 1 1 Section 21	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL CRESS, DANIEL B MATSUKADO, WILLIAM M PREWITT, WILLIAM  JONES, REBECCA L JONES, REBECCA L GUAJARDO, FRED RAY, CRAIG S STORLIE, TERRY
SW¼ NW¼ 1000 SW¼ NW¼ 1100 SW¼ NW¼ 900 NE¼ SW¼ 1300 NE¼ SW¼ 1300 SE¼ SW¼ 1300 NW¼ SE¼ 1400 NW¼ NE¼ 200 NE¼ NW¼ 200 NE¼ NW¼ 200 NE¼ NW¼ 200 NE¼ NW¼ 200 NE¼ NW¼ 200	IR I	5.000 8.000 4.300 5.000 2.000 2.000 6.000 30.000 18.000 7.000 5.000	1 1 1 1 1 1 Section 21	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL CRESS, DANIEL B MATSUKADO, WILLIAM M PREWITT, WILLIAM  JONES, REBECCA L JONES, REBECCA L GUAJARDO, FRED RAY, CRAIG S
SW¼ NW¼ 1002 SW¼ NW¼ 1100 SW¼ NW¼ 900 NE¼ SW¼ 1300 NE¼ SW¼ 1300 SE¼ SW¼ 1300 NW¼ SE¼ 1400 NW¼ SE¼ 1400 NE¼ NW¼ 200 NE¼ NW¼ 200	IR I	5.000 8.000 4.300 5.000 2.000 2.000 6.000 30.000 18.000 7.000 5.000 0.600	1 1 1 1 1 1 Section 21	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL CRESS, DANIEL B MATSUKADO, WILLIAM M PREWITT, WILLIAM  JONES, REBECCA L JONES, REBECCA L GUAJARDO, FRED RAY, CRAIG S STORLIE, TERRY
SW¼ NW¼ 1000 SW¼ NW¼ 1100 SW¼ NW¼ 900 NE¼ SW¼ 1300 NE¼ SW¼ 1300 SE¼ SW¼ 1300 NW¼ SE¼ 1400 NW¼ NE¼ 200 NE¼ NW¼ 200 NE¼ NW¼ 200 NE¼ NW¼ 200 NE¼ NW¼ 200 NW¼ NW¼ 200	IR I	5.000 8.000 4.300 5.000 2.000 2.000 6.000 30.000 18.000 7.000 5.000 0.600 7.500	1 1 1 1 1 1 Section 21	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL CRESS, DANIEL B MATSUKADO, WILLIAM M PREWITT, WILLIAM  JONES, REBECCA L JONES, REBECCA L GUAJARDO, FRED RAY, CRAIG S STORLIE, TERRY NICKERSON, SHARON L
SW¼ NW¼ 1002 SW¼ NW¼ 1100 SW¼ NW¼ 900 NE¼ SW¼ 1300 NE¼ SW¼ 1300 SE¼ SW¼ 1300 NW¼ SE¼ 1400 NW¼ NE¼ 200 NE¼ NW¼ 200 NE¼ NW¼ 200 NE¼ NW¼ 200 NW¼ NW¼ 200	IR I	5.000 8.000 4.300 5.000 2.000 2.000 6.000 30.000 18.000 7.000 5.000 0.600 7.500 4.000 7.000	1 1 1 1 1 1 Section 21	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL CRESS, DANIEL B MATSUKADO, WILLIAM M PREWITT, WILLIAM  JONES, REBECCA L JONES, REBECCA L GUAJARDO, FRED RAY, CRAIG S STORLIE, TERRY NICKERSON, SHARON L COOK, KENNETH L
SW¼ NW¼ 1002 SW¼ NW¼ 1100 SW¼ NW¼ 900 NE¼ SW¼ 1300 NE¼ SW¼ 1302 SE¼ SW¼ 1302 NW¼ SE¼ 1400  NW¼ NE¼ 202 NE¼ NW¼ 202 NE¼ NW¼ 202 NW¼ NW¼ 303	IR I	5.000 8.000 4.300 5.000 2.000 2.000 6.000 30.000 18.000 7.000 5.000 0.600 7.500 4.000 7.000 10.000	1 1 1 1 1 1 1 Section 21	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL CRESS, DANIEL B MATSUKADO, WILLIAM M PREWITT, WILLIAM  JONES, REBECCA L JONES, REBECCA L GUAJARDO, FRED RAY, CRAIG S STORLIE, TERRY NICKERSON, SHARON L COOK, KENNETH L GUAJARDO, FRED BROSINSKY, JACK
SW¼ NW¼ 1005 SW¼ NW¼ 1100 SW¼ NW¼ 900 NE¼ SW¼ 1300 NE¼ SW¼ 1300 SE¼ SW¼ 1300 NW¼ SE¼ 1400  NW¼ NE¼ 200 NE¼ NW¼ 200 NE¼ NW¼ 200 NE¼ NW¼ 200 NE¼ NW¼ 200 NW¼ NW¼ 300 SW¼ NW¼ 100	IR I	5.000 8.000 4.300 5.000 2.000 2.000 6.000 30.000 18.000 7.000 5.000 0.600 7.500 4.000 7.000 10.000 1.900	1 1 1 1 1 1 1 Section 21	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL CRESS, DANIEL B MATSUKADO, WILLIAM M PREWITT, WILLIAM  JONES, REBECCA L JONES, REBECCA L GUAJARDO, FRED RAY, CRAIG S STORLIE, TERRY NICKERSON, SHARON L COOK, KENNETH L GUAJARDO, FRED BROSINSKY, JACK STORLIE, ORVILLE
SW'4 NW'4 1005 SW'4 NW'4 1100 SW'4 NW'4 900 NE'4 SW'4 1300 NE'4 SW'4 1300 SE'4 SW'4 1300 NW'4 SE'4 1400  NW'4 NE'4 200 NE'4 NW'4 200 NE'4 NW'4 200 NW'4 NW'4 100 SW'4 NW'4 100	IR I	5.000 8.000 4.300 5.000 2.000 2.000 6.000 30.000 18.000 7.000 5.000 0.600 7.500 4.000 7.000 10.000 1.900 1.500	1 1 1 1 1 1 1 Section 21	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL CRESS, DANIEL B MATSUKADO, WILLIAM M PREWITT, WILLIAM  JONES, REBECCA L JONES, REBECCA L GUAJARDO, FRED RAY, CRAIG S STORLIE, TERRY NICKERSON, SHARON L COOK, KENNETH L GUAJARDO, FRED BROSINSKY, JACK STORLIE, ORVILLE BUCK, STEVEN C
SW¼ NW¼ 1005 SW¼ NW¼ 1100 SW¼ NW¼ 900 NE¼ SW¼ 1300 NE¼ SW¼ 1300 SE¼ SW¼ 1300 NW¼ SE¼ 1400  NW¼ NE¼ 200 NE¼ NW¼ 200 NE¼ NW¼ 200 NE¼ NW¼ 200 NE¼ NW¼ 200 NW¼ NW¼ 300 SW¼ NW¼ 100	IR I	5.000 8.000 4.300 5.000 2.000 2.000 6.000 30.000 18.000 7.000 5.000 0.600 7.500 4.000 7.000 10.000 1.900	1 1 1 1 1 1 1 Section 21	CUMMINS, DEWEY SPORALSKY, KENNETH F WHITSON, HOWARD GRECH, LARRY LEGUM, KEITH J ET AL CRESS, DANIEL B MATSUKADO, WILLIAM M PREWITT, WILLIAM  JONES, REBECCA L JONES, REBECCA L GUAJARDO, FRED RAY, CRAIG S STORLIE, TERRY NICKERSON, SHARON L COOK, KENNETH L GUAJARDO, FRED BROSINSKY, JACK STORLIE, ORVILLE

SW1/4 NW1/4	1200	IR	1.000	1	GRAYBEAL, HAROLD D
SW1/4 NW1/4	1300	IR	1.500	1	CANTRELL, MORGAN
SW1/4 NW1/4	1400	IR	1.500	1	BONDURANT, CURTIS D
SW¼ NW¼	1500	IR	1.500	1	TENNENT, JOHN D
SW¼ NW¼	200	IR	1.500	1	WONSER, FRANKLIN D
SW¼ NW¼	300	IR	1.500	1	MOSS, SELDON D
SW¼ NW¼	400	IR	1.500	1	LARSEN, KAJ E
SW¼ NW¼	500	IR	1.500	1	STENKAMP, PAUL R
SW¼ NW¼	600	IR	1.500	1	ELBERT, SCOTT
SW¼ NW¼	700	IR	1.500	1	HARMESON, JANET
SW¼ NW¼	800	IR	1.500	1	DAVIS, REBECCA E
SW¼ NW¼	900	IR	1.500	1	COLE, JEFFREY H
				Section 22	
NW¼ NW¼	100	IR	2.000	1	HILLMAN, GORDON
NW¼ NW¼		IR	2.000	1	BARGAS, BARBARA A
NW¼ NW¼		IR	2.000	1	VIERRA, LAWRENCE
NW¼ NW¼	1500	IR	2.000	1	MURPHY, GLENN E
NW¼ NW¼	1600	IR	2.000	1	LACKEY, DAVID E
NW¼ NW¼	200	IR	2.000	1	KOEHLER, JAMES R
NW¼ NW¼	201	IR	2.000	1	KOEHLER, JAMES R
NW¼ NW¼	300	IR	3.000	1	GRANT, CHARLIE III, ET AL
NW¼ NW¼	400	IR	2.000	1	WILSON, BOBBIE JEAN
SW1/4 NW1/4	1000	IR	2.000	1	WINTERS, JAMES G
SW¼ NW¼	1100	IR	3.000	1	ANGLAND, MAURICE P
SW¼ NW¼	1200	IR	2.000	1	WHITAKER, JAMES L
SW¼ NW¼	500	IR	2.000	1	WILSON, CHARLES R ET AL ESTATE
SW¼ NW¼	600	IR	2.000	1	FAGEN, HARRY J
SW¼ NW¼	700	IR	1.000	1	HOLLOWELL, HERMAN
SW¼ NW¼	800	IR	2.000	1	BOWMAN, TERESA
SW¼ NW¼	900	IR	4.000	1	CORNETT, EARL
NE¼ SW¼	100	IR	10.000	1	DE PONZI, GEORGE
NE¼ SW¼	200	IR	7.000	1	SMITH, LAWRENCE M
NE¼ SW¼	300	IR	2.000	1	CLOUSE, CAROL LEE
NE¼ SW¼	400	IR	2.000	1	CLOUSE, CAROL LEE
NE¼ SW¼	500	IR	3.200	1	STYSKEL, EDWARD W
NE¼ SW¼	600	IR	0.700	1	WELLS, NANCY D ET AL
NE1/4 SW1/4	900	IR	0.500	1	CRAWFORD, GLENN A
NW¼ SW¼		IR	3.000	1	BARTHOLOMEW, WILLIAM S JR
NW¼ SW¼		IR	3.500	1	MARTIN, WADE C
NW¼ SW¼		IR	0.800	1	STYSKEL, EDWARD W
NW¼ SW¼	600	IR	1.300	1	WELLS, NANCY D ET AL
NW¼ SW¼	700	IR	2.000	1	NEELEY FAMILY TRUST
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	701	IR	3.000	1	SEIFERT, DAVID
NW¼ SW¼	702	IR	3.000	1	PAXTON, GUY
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	703	IR	2.000	1	BRADFORD, CHARLES A
NW¼ SW¼		IR	1.500	1	CRAWFORD, GLENN A
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1500	IR	1.000	1	KAESCHE, WAYNE CURTIS TRUST
SW1/4 SE1/4	3400	IR	37.000	1	KAESCHE, WAYNE CURTIS TRUST
				Section 27	
NE¼ NE¼	100	IR	2.000	1	LYON, RICHARD L JR
NE¼ NE¼	200	IR	2.000	1	RASSMUSSEN, THOMAS H
NW¼ NE¼	400	IR	6.000	1	LEWIS, RICHARD L
NW¼ NE¼	500	IR	5.600	1	YOUNG, STEVE
SW¼ NE¼	500	IR	12.400	1	YOUNG, STEVE
SW¼ NE¼	800	IR	6.000	1	JACOBS, ALAN D
SW¼ NE¼	900	IR	7.000	1	JACOBS, ALAN D
SE¼ NE¼	1000	IR	3.500	1	KOMADINA, KEVIN
SE¼ NE¼	600	IR	4.400	1	EASLEY, JAMES
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SE¼ NE¼	601	IR	7.940	1	EASLEY, JAMES
SE¼ NE¼	700	IR	6.500	1	HEILMEYER, JOHN T
SE1/4 NW1/4	1900	IR	3.000	1	MORGAN, BRECK & EVANS, KERRI
SE¼ NW¼	2000	IR	10.500	1	BROUILLETTE, THOMAS W
SE¼ NW¼	2100	IR	7.500	1	CLEAVENGER, MICHAEL J
SE¼ NW¼	2200	IR	9.500	1	WHITE, JOHN F III
NE¼ SW¼	100	IR	2.000	1	ASHENBRENNER, BONITA
NE¼ SW¼	101	IR	2.000	1	MCPHEETERS, RODNEY
NE¼ SW¼	102	IR	2.000	1	SHRUM, BILL
NE¼ SW¼	103	IR	4.000	1	HARLING, TERRY
NE¼ SW¼	200	IR	3.000	1	SNIDER, BRUCE H
NE¼ SW¼	300	IR	3.000	1	WILSON, GORDON K
NE¼ SW¼	400	IR	3.000	1	ALLEN, RON
NE¼ SW¼	501	IR	3.000	1	GIBSON, DARRELL
SW1/4 SW1/4	1401	IR	19.000	1	CHRISTMAN, JANEL
SW1/4 SW1/4		IR	5.000	1	SCHROEDER, JAMES R JR
SE1/4 SW1/4	1100	IR	7.000	1	HOOD, ANDREW P
SE1/4 SW1/4	1200	IR	3.000	1	SCOVILLE, TERRY A
SE1/4 SW1/4	1300	IR	3.000	1	SLAUGHTER, BARRY H
SE1/4 SW1/4	600	IR	3.000	1	CALIANNO, DANIEL
SE1/4 SW1/4	700	IR	3.000	1	MANN, PATRICIA WENICK
SE¼ SW¼	800	IR	3.000	1	DAVEY, JEROME
SE1/4 SW1/4	900	IR	2.000	1	CRAWFORD, PATRICK
NE¼ SE¼	1100	IR	8.200	1	BENSON, CLIFFORD D
NE¼ SE¼	1402	IR	2.700	1	NEELEY, LEROY
NE¼ SE¼	1403	IR	9.800	1	NEELEY, LEROY
NE¼ SE¼	1405	IR	2.600	1	LEONE, ANACLETO III
NW¼ SE¼	1300	IR	18.760	1	CAREY, DONALD L
	1301	IR	3.300	1	HOPPER, ROBIN E
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1301	IR	0.700	1	HOPPER, ROBIN E
	1700	IR	3.000	1	BRINKLEY, ROBERT B
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1800	IR	1.000	1	GOODSTEIN, ROBERT C
SE¼ SE¼	1401 1404	IR IB	4.260	1	WILLS, ELLEN M &
SE¼ SE¼ SE¼ SE¼	1404	IR IR	9.100 6.300	1 1	GILLESPIE, CLIFFORD W
SE14 SE14	1500	IR	7.100	1	LEONE, ANACLETO III
SE74 SE74	1300	IK	7.100	Section 28	FISHER, LEONARD
				Section 28	
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	300	IR	31.400	1	DAVIS, RICHARD NEIL
NW1/4 SW1/4	400	IR	23.000	1	VAN BLOKLAND, CRAIG A &
NW1/4 SW1/4	401	IR	7.000	1	STOGSDILL, JEFFREY D
SW1/4 SW1/4	500	IR	14.000	1	BOURGEOIS, TERRY A
SW1/4 SW1/4	501	IR	14.000	1	FAULKNER, BARRY M
				Section 29	,
NE¼ NE¼	100	IR	29.200	1	FORD, LAVERNE
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	101	IR	37.000	1	BUCHANAN, FRED M
SW¼ NE¼	1600	IR	10.000	1	LARSON, RICHARD G
SE¼ NE¼	100	IR	29.800	1	FORD, LAVERNE
NE¼ NW¼	201	IR	5.000	1	TSOURMAS, JAMES
NE¼ NW¼	202	IR	5.000	1	BIANCULLI, JOE
NE¼ NW¼	203	IR	3.000	1	HAMMER, LEO R
NE¼ NW¼	204	IR	1.000	1	MCHONE, DONALD R
NE¼ NW¼	205	IR	4.000	1	MOERSCHELL, KATHLEEN E
NW1/4 NW1/4		IR IB	17.400	1	ROBINSON, RONALD J JR
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR ID	17.600	1	ROBINSON, RONALD LIB
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	500 501	IR IR	9.000 4.000	1	ROBINSON, RONALD J JR FRANKLIN, WILLIAM
SW1/4 NW1/4 SW1/4 NW1/4	502	IR	4.500	1 1	EGGLESTON, PAUL H
SW14 NW14	503	IR	4.000	1	BRADBURY, STEVEN
D 11 /4 11 11 /4	505	110	1.000	1	Zan Zori, oil (Lit

SW1/4 NW1/4	504	IR	4.500	1	JOHNSON, ROBERT E
SW1/4 NW1/4	600	IR	8.000	1	MOYER, KENNETH M
SE1/4 NW1/4	400	IR	0.800	1	CARTY, JAMES R, ET AL
NE1/4 SW1/4	400	IR	15.800	1	CARTY, JAMES R, ET AL
SW1/4 SW1/4	1000	IR	2.000	1	
					MCCALL, JOHN
	1100	IR	3.000	1	BRADBURY, LOIS
	1201	IR	2.000	1	COBOS, TOMMY D
	1300	IR	1.000	1	POSEY, JOHN R
	1400	IR	3.000	1	DAVIS, RICHARD LYLE
SW1/4 SW1/4	800	IR	2.000	1	ANDERSON, GENE A
SW¼ SW¼	900	IR	2.000	1	DEGARMO, SAM JR
SE¼ SW¼	1500	IR	12.500	1	PAULSON, RENEE' J
SE¼ SW¼	1501	IR	12.000	1	HANSON, ARNOLD E
NE¼ SE¼	1700	IR	10.000	1	CAINE, PETER
NE1/4 SE1/4	1701	IR	14.000	1	SLAUGHTER, DOUGLAS J
NW1/4 SE1/4	1601	IR	23.000	1	ADLETA, THOMAS L
SW1/4 SE1/4	1602	IR	12.000	1	ADLETA, THOMAS L
SE1/4 SE1/4	1800	IR	10.250	1	TYE, MICHAEL
SE¼ SE¼	1801	IR	5.700	1	JACKSON, STEVEN A
SE'4 SE'4	1802	IR	4.450	1	TYE, MICHAEL
					•
SE¼ SE¼	1804	IR	1.000	1	LARSON, RONALD H
SE¼ SE¼	2000	IR	1.600	1	LARSON, RONALD H
				Section 30	
NE¼ NE¼	100	IR	2.000	1	WALDROP, DANIEL J
NE¼ NE¼	1000	IR	2.000	1	RADTKE, DONALD E
NE¼ NE¼	1003	IR	2.000	1	SMITH, CLYDE WM II ET AL
NE¼ NE¼	1004	IR	0.500	1	STENKAMP, BERNARD
NE¼ NE¼	1011	IR	1.000	1	HALL, DON
NE¼ NE¼	1012	IR	1.500	1	THOMPSON, KELLY JET AL
NE¼ NE¼	1013	IR	0.650	1	ROBERTS, WILLIAM P
NE¼ NE¼	1015	IR	0.500	1	AVERILL, JO
NE¼ NE¼	103	IR	2.000	1	HARRIS, FREDERICK M
NE¼ NE¼	105	IR	2.000	1	RALPH, GORDON D
NW¼ NE¼		IR	0.100	1	PARKER, WALTER M.K. SR
NW¼ NE¼		IR	0.500	1	ROBERTS, WILLIAM P
					,
NW¼ NE¼	103	IR	3.000	1	HARRIS, FREDERICK M
NW¼ NE¼	200	IR	1.900	1	SEVERS, DONALD
NW¼ NE¼	300	IR	4.500	1	DAVIS, LARRY G
SW¼ NE¼	1001	IR	5.000	1	MORRIS, DARRELL J
SW¼ NE¼	1005	IR	2.000	1	MAZZOLA, CHARLES T
SW¼ NE¼	1006	IR	4.500	1	PAXTON, LESTER
SW¼ NE¼	1007	IR	0.500	1	REAL, HOLLIS
SW¼ NE¼	101	IR	1.000	1	SPITTLER, LAURA LEE
SW¼ NE¼	1010	IR	3.700	1	PARKER, WALTER M.K. SR
SW¼ NE¼	1013	IR	0.150	1	ROBERTS, WILLIAM P
SW1/4 NE1/4	1016	IR	2.000	1	REAL, HOLLIS
SW¼ NE¼	1017	IR	2.000	1	LINK, AVIS
SW1/4 NE1/4	102	IR	0.500	1	REAL, EMMA
SW1/4 NE1/4	200	IR	0.100	1	SEVERS, DONALD
SE¼ NE¼	1000	IR	1.000	1	RADTKE, DONALD E
SE1/4 NE1/4	1002	IR	1.000	1	HURLEY, STEVE
	1002	IR	3.000	1	,
SE14 NE14					BARANY, LARRY J
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	1009	IR	4.000	1	MOORE, JOHN
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	1010	IR	0.200	1	PARKER, WALTER M.K. SR
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	1013	IR	0.700	1	ROBERTS, WILLIAM P
SE¼ NE¼	1017	IR	1.000	1	LINK, AVIS
SE¼ NE¼	1019	IR	5.000	1	HANSEN, RUSSELL A
NE¼ NW¼	400	IR	4.600	1	CLONTZ, ALVIE
NE¼ NW¼	401	IR	3.500	1	VOGELSANG, CHRISTOPHER

	NE1/4 NW1/4	402	IR	9.000		1	HOBLIT, W C
	NE¼ NW¼	404	IR	4.000		1	KINSEY, JAMES
	NE¼ NW¼	405	IR	3.500		1	CRANDALL, DONALD
	NE¼ NW¼	406	IR	1.400		1	CLONTZ, ALVIE
	NE¼ NW¼	407	IR	4.700		1	HARGOUS, PETE
	NE¼ NW¼	407	PND	0.300		1	HARGOUS, PETE
	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	500	IR	1.700		1	DEWEY, DAVID L
	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	503	IR	2.300		1	DEWEY, DAVID L
	SW1/4 NW1/4	600	IR	8.850		1	BARNETT, DAVID
	SE¼ NW¼	403	IR	8.000		1	FULLER, KERRY
	SE1/4 NW1/4	800	IR	8.500		1	WHIDDON, JOE L
	SE¼ NW¼	801	IR	5.000		1	KETRENOS, HARRY
	SE¼ NW¼	802	IR	4.500		1	CLINKINBEARD, JAMES E
	SE¼ NW¼	803	IR	3.000		1	FLEMING, WALTER T
	NE¼ SW¼	100	IR	8.000		1	KOOK, JOSEPH JR
	NE1/4 SW1/4	200	IR	19.400		1	ELLINGSON, MRS GEORGIA
	NW1/4 SW1/4	300	IR	1.000		1	BODIE, JAMES W
	NW1/4 SW1/4	500	IR	2.000		1	KINGSMITH, JOHN
	NW1/4 SW1/4	600	IR	5.000		1	ENGLISH, GARY S
	SW1/4 SW1/4	1000	IR	1.000		1	BREHM, VANCE W
	SW1/4 SW1/4		IR	1.000		1	WALTERS, H T
	SW1/4 SW1/4		IR	1.000		1	KNAPP, STEVEN
	SW1/4 SW1/4		IR	1.000		1	KNAPP, STEVEN L
	SW1/4 SW1/4		IR	1.000		1	TABOR, MICHAEL
	SW1/4 SW1/4		IR	2.000		1	BLOMQUIST, RANDALL J
	SW1/4 SW1/4		IR	1.000		1	DAUCSAVAGE, BRUCE
	SW1/4 SW1/4		IR	1.000		1	LEWIS, EDWARD E
	SW1/4 SW1/4		IR	1.400		1	GITTHENS, CHRISTIN LYNN
	SW1/4 SW1/4		IR	1.600		1	PENTECOSTAL CHURCH OF GOD
	SW1/4 SW1/4	700	IR	1.000		1	BLANCHARD, JOHN M
	SW1/4 SW1/4	800	IR	1.000		1	KEPHART, DAVID W
	SW1/4 SW1/4	900	IR	2.000		1	HORNE, DAVID L
	SE¼ SW¼	2000	IR	15.700		1	WATSON, RICHARD C
	SE1/4 SW1/4	2001	IR	18.300		1	MEYER, CHARLOTTE
	NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1100	IR	6.800		1	MCELRATH, THOMAS
	NE¼ SE¼	1103	IR	5.500		1	REYNOLDS, MARK P
	NW1/4 SE1/4		IR	5.000		1	STROBEL, RONALD
	NW¼ SE¼	1104	IR	5.000		1	HEEREN, KARL C
	NW¼ SE¼	1200	IR	2.000		1	HANSHEW, SHIRLEY J
	NW1/4 SE1/4		IR	2.000		1	TORKELSON, RICHARD
	NW1/4 SE1/4	1901	IR	3.820		1	TORKELSON, CLARENCE
	SW1/4 SE1/4	1904	IR	12.180		1	TORKELSON, CLARENCE TORKELSON, CLARENCE
	SE1/4 SE1/4	1904	IR	3.000		1	BASHIAN, LARRY
	SE/4 SE/4	1902	IK	3.000		Section 31	DASIIIAN, LARK I
						Section 31	
	NE¼ NE¼	100	IR	13.000		1	KENNEDY, TIMOTHY M
	NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	100	IR IR	13.000		1	BURNSIDE, BOB
						1	•
	NW¼ NE¼	200	IR IR	3.000		1	CURRY, ROBERT CHARLES
	NW¼ NE¼	300	IR ID	2.000		1	BENDER, BOB
	NW¼ NE¼	400	IR ID	7.500		1	STRAWN, DALE
	NW¼ NE¼	500	IR ID	3.000		1	METZEN, PENELOPE MARIN
	NW¼ NE¼	600	IR ID	1.400		1	LUNNY, RUSSELL J
	NW¼ NE¼	800	IR ID	0.600		1	LUNNY, RUSSELL J
	SW¼ NE¼	900	IR ID	2.000		1	NEWMAN, STEVEN W
	SW¼ NE¼	901	IR ID	11.000		1	NICHOLS, GARY W
	SW¼ NE¼	902	IR ID	10.000		1	CHAMBERS, STEVEN M
	SW¼ NE¼	903	IR ID	9.000		1	TITUS, LEWIS H
	SE¼ NE¼	1000	IR ID	19.000		1	BURNSIDE, BOB
	NE¼ NW¼	100	IR ID	2.000		1	BOWERS, WAYNE E
	NE¼ NW¼	1800	IR	1.750		1	GAFFNEY, THOMAS P
**	201111 1				т.	01 0107	M < 0.40

NE¼ NW¼ 1900	IR	1.400	1	MULVIHILL, BRAD
NE¼ NW¼ 2000	IR	2.770	1	HORNER, CLARANCE D
NE¼ NW¼ 2100		1.710	1	PARTRIDGE, ALLYN B
NE¼ NW¼ 2200		0.520	1	ANDERSON, WALDO G
NE¼ NW¼ 2300	IR	1.200	1	GARCIA, LEE D
NE'4 NW'4 2400	IR	1.400	1	•
				DUGGINS, DARRELL R
NE¼ NW¼ 3700	IR	0.200	1	HALL, LLOYD L
NE¼ NW¼ 3800		1.750	1	DAVIS, LEON
NE¼ NW¼ 3900		2.000	1	ROSHAK, GEORGE T
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 4000	IR	1.500	1	NEWELL, DOUGLAS W
NE¼ NW¼ 4100	IR	3.000	1	ROBIRTS, JOHN T
NE¼ NW¼ 4200	IR	2.310	1	HECKMAN, ROBERT J
NW¼ NW¼ 1400	IR	2.000	1	MITCHELL, CHESTER A L
NW¼ NW¼ 1500	IR	3.000	1	ALDRICH, PATRICK H
NW¼ NW¼ 1600	IR	2.000	1	CAMBELL, JOSEPHINE A &
NW¼ NW¼ 1700	IR	2.000	1	MCNAMEE, CECILIA A
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 200	IR	2.000	1	BRYANT, WADE L
NW¼ NW¼ 300	IR	2.000	1	BEX, MARSHALL L III
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 400	IR	3.500	1	DECKARD, STEPHEN
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 500	IR	1.000	1	COLLINS, JOHN F
NW¼ NW¼ 501	IR	1.000	1	NAYE, WILLIAM T
SW¼ NW¼ 1000	IR	1.000	1	GILLARD, QUENTIN
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1100	IR	1.500	1	RODNEY, MURIEL ET AL
SW¼ NW¼ 1200	IR	2.500	1	BARANY, LARRY J
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1300	IR	3.000	1	MCADAM, LAURIE G
SW¼ NW¼ 600	IR	2.400	1	PHILLIPS, JERRY
SW¼ NW¼ 700	IR	3.000	1	CLOTHIER, GEORGE H
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 800	IR	2.000	1	HURST, PHILLIP M
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 900	IR	2.000	1	BIBLER, MARVIN
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 2200	IR	1.480	1	ANDERSON, WALDO G
SE¼ NW¼ 2300	IR	0.300	1	GARCIA, LEE D
SE¼ NW¼ 2500	IR	1.750	1	BROWNE, NANCY E
SE¼ NW¼ 2600	IR	0.820	1	HOMAN, ANDREW
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 2700	IR	1.950	1	GLASS, JOHN M
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 2800	IR	1.300	1	YOUNG, DOUGLAS W
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 2900	IR	0.900	1	RAGO, CHARLES M
SE¼ NW¼ 3000	IR	2.000	1	FUCHS, KURT L
SE' <sub>4</sub> NW' <sub>4</sub> 3100	IR	2.640	1	MACASKILL, WAYNE
SE'4 NW'4 3300	IR	0.350	1	ZINIKER, ED
			1	•
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 3400	IR	2.000		BASHFORD, ROBERT F
SE'4 NW'4 3500	IR	2.000	1	PLAGMANN, GARY L
SE¼ NW¼ 3600	IR	1.500	1	DAWN, JEFFERSON
			Section 32	
NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 100	IR	22.000	1	LAGOMARSINO, JOHN
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 200	IR	5.000	1	GERRY, ANDREW J
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 201	IR	10.000	1	BAIN, NORMAN
SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 700	IR	3.500	1	GREENSTREET, ROBERT H
	IR	2.000		•
SE' <sub>4</sub> NE' <sub>4</sub> 1000			1	ALFORD, ROBERT H
SE¼ NE¼ 1001	IR	5.700	1	THAYER, DAVID T
NE¼ NW¼ 100	IR	8.000	1	BEST, GILBERT D
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 200	IR	3.000	1	CRABTREE, MICHAEL DEAN
NE¼ NW¼ 201	IR	0.500	1	CRABTREE, MICHAEL DEAN
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 300		5.000	1	CRABTREE, MICHAEL DEAN
NE¼ NW¼ 400	IR	6.000	1	SCHRAM, GERALD D
NW¼ NW¼ 1400	IR	2.500	1	DEBONS, ALBERT F
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1500	IR	3.500	1	DEBONS, ALBERT F
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1600	IR	1.500	1	COURTOIS, GARY A
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1700	IR	5.500	1	FREEBORN, DONNA SUE
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 500	IR	5.000	1	BROWN, CHARLES W
				•

NW¼ NW	71/4 700	IR	3.000	1	COURTOIS, GARY A
NW¼ NW	<sup>1</sup> / <sub>4</sub> 800	IR	3.000	1	OSMOND, EDWARD
NW¼ NW	<sup>1</sup> / <sub>4</sub> 900	IR	4.000	1	HERTZBERG, WILLARD JR
SW¼ NW	½ 1103	IR	7.500	1	VAGO, GEORGE
SW¼ NW			1.500	1	WEGENER, ROBERT D
SW¼ NW			2.000	1	REED, MELINDA
SW¼ NW			2.500	1	NAMES, WALTER D
SW¼ NW			0.500	1	FLAHERTY, JOHN
SE¼ NW½			1.000		•
				1	HAMILTON, LESLIE B
SE¼ NW½			3.500	1	FLAHERTY, JOHN
NE¼ SW½			2.000	1	MURPHY, BRYAN P
NE¼ SW½			2.000	1	WILDER, DONALD R
NE¼ SW½			6.500	1	HATCHER, JAMES E
NE¼ SW½	4 400		2.000	1	WILLIAMS, GREGORY H
NE¼ SW½	4 500	IR	2.000	1	MELLON, SERGE J
NE¼ SW½	4 601	IR	2.000	1	DRISCOLL, HARRY
NW¼ SW	<sup>1</sup> / <sub>4</sub> 1000	IR	2.000	1	STIFFLER, MORRIS C
NW¼ SW	½ 1100	IR	2.000	1	WILLIAMS, JOHN K
NW1/4 SW	<sup>1</sup> / <sub>4</sub> 702		2.500	1	NEWTON, CLIFTON E
NW1/4 SW			2.000	1	COON, DALLAS
NW¼ SW			3.000	1	THOMPSON, ROGER WILLIAM
NW¼ SW			2.000	1	STENZEL, GENE
			3.000	1	•
NW1/4 SW					HAMMONS, JIM L
NW <sup>1</sup> / <sub>4</sub> SW <sup>2</sup>			2.000	1	SOUHRADA, JOHN C
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup>			2.000	1	HAMMONS, JIM L
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>5</sub>			3.500	1	STEIN, RICHARD T
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>2</sub>			2.000	1	HANSON, WILLIAM
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>2</sub>			2.000	1	ARTHUR, JAMES D
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>2</sub>	/ <sub>4</sub> 1500		2.000	1	RIPER, ETHEL A
SW¼ SW½	4 1600	IR	3.000	1	MCGILL, ROBERT
SW¼ SW!	<b>4</b> 701	IR	4.000	1	BOATMAN, TERRY GENE
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup>	<sub>4</sub> 705	IR	2.000	1	HATCHER, SCOTT
SE1/4 SW1/4	4 1900	IR	2.000	1	SHEELEY, RUSSELL D
SE¼ SW½	2000	IR	2.000	1	HUMPHREY, GERALD R
SE1/4 SW1/4			2.600	1	NEWTON, FRED
SE¼ SW¼			6.600	1	NEWTON, FRED
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>			9.900	1	BISCHOFF, CHRIS & MARCIA
NE'4 SE'4			14.000	1	PURCELL, CLYDE
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>			0.100	1	BISCHOFF, CHRIS & MARCIA
NW¼ SE½			12.000	1	FIX, ROBERT
NW¼ SE½			12.300	1	PURCELL, CLYDE
SW¼ SE½			15.500	1	PURCELL, CLYDE
SW¼ SE½			18.100	1	PURCELL, CLYDE
SE¼ SE¼			14.400	1	PURCELL, CLYDE
SE¼ SE¼	800	IR	12.900	1	PURCELL, CLYDE
				Section 33	
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup>	<b>700</b>	IR	8.000	1	SPEAR, TRACEY
SW1/4 SW1			2.000	1	DOBSON, DALE E JR
SE1/4 SW1/4			4.000	1	MENGLE, LEWIS
SE1/4 SW1/4			4.000	1	DOLF, WILLIAM B
SE' <sub>4</sub> SW' <sub>2</sub>			4.000	1	WHITWORTH, THOMAS
SE14 SW1/4			4.000	1	WEST, ROBERT D
			6.400		
SW1/4 SE1/4				1	LONIEN, JOHN
SW1/4 SE1/4			3.600	1	LONIEN, JOHN
SW¼ SE½	4 200	) IR	8.000	1	JESSIMAN, ROBERT
			Townshin 1	Section 34 7 South, Range 1	13 East, W.M.
			•	. ~	,
NE¼ SW¹	4 903	IR.	5.000	1	WOGMAN, LARRY J
*******			_		
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						***	
	NW1/4 SW1/4	903	IR	31.000	1	WOGMAN, LARRY J	
	SW1/4 SW1/4	900	IR	33.300	1	RANTZ, BILLY L ET AL	
	SE1/4 SW1/4	900	IR	2.700	1	RANTZ, BILLY L ET AL	
	52745 1174	700	110	2.700	Section 2	KANTZ, BILLT L'ET AL	
					Section 2		
	SE¼ NE¼	200	IR	9 900	1	DIEWALD DAME	
				8.800	1	RUFKAHR, DAVID J	
	NE¼ SE¼	200	IR	35.500	1	RUFKAHR, DAVID J	
	SE¼ SE¼	200	IR	31.700	1	RUFKAHR, DAVID J	
					Section 3		
	NE¼ NE¼	800	IR	17.000	1	MILTENBERGER, DONALD	
	SE¼ NE¼	800	IR	21.800	1	MILTENBERGER, DONALD	
	NE¼ SE¼	800	IR	26.400	1	MILTENBERGER, DONALD	
	SE¼ SE¼	800	IR	20.300	1	MILTENBERGER, DONALD	
					Section 10	•	
	SW1/4 NE1/4	902	IR	9.000	1	SCHWAB, ALAN L	
	NE¼ NW¼	904	IR	12.300	1	SCHWAB, ALAN L	
	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	904	IR	23.700	i	SCHWAB, ALAN L	
	SW1/4 SW1/4	800	IR	32.500	1	MILTENBERGER, DONALD	
						•	
	NE¼ SE¼	902	IR	8.000	1	SCHWAB, ALAN L	
	SW1/4 SE1/4	1002	IR	2.000	1	JOHNSON, JOHN R	
					Section 11		
	> *** ** / > *** ** /	•••		c #00			
	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	201	IR	6.500	1	SMITH, JAMES C	
	SW¼ NW¼	300	IR	31.200	1	SINGHOSE, WAYNE	
	NE¼ SW¼	500	IR	13.000	1	AUSTON, PAUL E JR	
	NW1/4 SW1/4	300	IR	40.000	1	SINGHOSE, WAYNE	
	SW1/4 SW1/4	400	IR	37.000	1	G.M. INDTRIES, INC	
	SE¼ SW¼	501	IR	36.500	1	GANTENBEIN, JOHN	
	SW1/4 SE1/4	600	IR	16.000	1	ASCHOFF, QUENTIN	
	SW1/4 SE1/4	700	IR	17.700	1	LATHROP, CHARLES E	
	SE1/4 SE1/4	800	IR	11.000	1	PALMER, ANTHONY	
	DL/4 DL/4	000	111	11.000	Section 13	TALVILK, ANTHON	
					Section 13		
	NE¼ NE¼	100	IR	26.000	1	ASHER, MELVIN D	
					1	· · · · · · · · · · · · · · · · · · ·	
	NW¼ NE¼	200	IR	28.500	1	STEELHAMMER, DAN	
	SW¼ NE¼	400	IR	36.600	1	MILTENBERGER, KENNETH	
	SE¼ NE¼	1100	IR	27.700	1	SINGHOSE, WAYNE	
	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	400	IR	18.600	1	MILTENBERGER, KENNETH	
	NE¼ NW¼	401	IR	2.000	1	MILTENBERGER, ORVILLE	
	NW¼ NW¼	500	IR	37.400	1	MILTENBERGER, DONALD	
	SW¼ NW¼	500	IR	37.700	1	MILTENBERGER, DONALD	
	SE¼ NW¼	400	IR	34.500	1	MILTENBERGER, KENNETH	
	NE1/4 SW1/4	1000	IR	27.700	1	MILTENBERGER, KENNETH	
,	NE1/4 SW1/4	900	IR	10.000	1	GREGORY, KEITH B	
	NW1/4 SW1/4	600	IR	37.500	1	GREGORY, KEITH B	
	SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	700	IR	36.500	1	WILLIAMS, DONALD J	
	SE1/4 SW1/4	800	IR	31.700	1	•	
						SINGHOSE, WAYNE	
	NE¼ SE¼	1100	IR	39.200	1	SINGHOSE, WAYNE	
	NW1/4 SE1/4	1000	IR	31.000	1	MILTENBERGER, KENNETH	
	SW¼ SE¼	800	IR	34.100	1	SINGHOSE, WAYNE	
	SE¼ SE¼	1200	IR	40.000	1	BARTNIK, GLENN	
					Section 14		
	NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	100	IR	0.500	1	JONES, HAZEL G	
	NE¼ NE¼	200	IR	26.500	1	FLEMING, MERVIN K	
	SE¼ NE¼	300	IR	3.000	1	MCKENZIE, KENNETH J	
	SE¼ NE¼	400	IR	0.500	1	MCKENZIE, KENNETH J	
	SE¼ NE¼	500	IR	5.000	1	BEAN, DARCY	
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SE¼ NE¼ 600	IR	5.000	1	GAVRILOFF, MARTIN A
SE¼ NE¼ 700	IR	3.000	1	GREGG, JAMES A
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 800	IR	2.700	1	SMITH, LEROY
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 100	IR	29.000	1	BYRNES, ROSEMARY A
SE¼ SE¼ 100	IR	23.000	1	BYRNES, ROSEMARY A
			Section 15	D TTG (DS), TG S D M MCT TT
NE¼ SE¼ 10500	IR	7.700	1	ELLINGTON, GARY G
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 9000	IR	3.200	1	WOLKAU, RICHARD J
			Section 21	
NE¼ NE¼ 100	IR	9.700	1	PSHIGODA, DAVID M
NE¼ NE¼ 100	PND	0.200	1	PSHIGODA, DAVID M
NE¼ NE¼ 200	IR	4.100	1	PSHIGODA, DAVID M
SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 700	IR	9.400	1	MOORE, BAXTER
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 800	IR	25.000	1	CORCORAN, ROSEMARY
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 801	IR	8.900	1	STUART, CHARLES S
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 700	IR	31.900	1	MOORE, BAXTER
NW1/4 SW1/4 10500	IR	4.000	1	ELLINGTON, GARY G
SW¼ SW¼ 1301	IR	10.030	1	TYE, WILLIAM R
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1302	IR	17.000	1	TYE, WILLIAM R
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1300	IR	37.000	1	TYE, WILLIAM R
NE1/4 SE1/4 801	IR	36.100	1	STUART, CHARLES S
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 700	IR	36.700	1	MOORE, BAXTER
SW1/4 SE1/4 1200	IR	37.000	1	CUNNINGHAM, JERRY L
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1000	IR	6.610	1	WHITE, DAVID L JR
SE¼ SE¼ 1001	IR	1.150	1	CENTRAL ELECTRIC CO-OP
SE¼ SE¼ 1100	IR	17.000	1	LUCKMAN, DALE G
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 900	IR	7.000	1	KENTNER, LESTER
			Section 22	
NE¼ NE¼ 100	IR	35.000	1	BARTNIK, GLENN
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 300	IR	31.700	1	SINGHOSE, WAYNE
SW¼ NE¼ 800	IR	38.600	1	ENGLUND, WALTER F
SE¼ NE¼ 1000	IR	18.000	1	HINOJOSA, RUDOLFO
SE¼ NE¼ 1001	IR	18.750	1	HINOJOSA, RUDOLFO
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 300	IR	34.100	1	SINGHOSE, WAYNE
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 500	IR	36.400	1	WILLIAMS, RICK A
SW¼ NW¼ 600	IR	27.500	1	GOOD, JERRY A
SW¼ NW¼ 602	IR	8.000	1	WEATHERS, GARY L
SE¼ NW¼ 800	IR	36.100	1	ENGLUND, WALTER F
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 800	IR	36.400	1	ENGLUND, WALTER F
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 700	IR	35.700	1	WATERS, PATTY JO
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1300	IR	14.000	1	HARMON, NADINE
SW¼ SW¼ 1400	IR	17.000	1	COULTER, MELVIN
SE¼ SW¼ 1201	IR	36.700	1	LEWIS, HENRY G
SE¼ SW¼ 1500	IR	1.000	1	LEWIS, HENRY
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 800	IR	40.000	1	ENGLUND, WALTER F
SW¼ SE¼ 1200	IR	16.250	1	LEWIS, HENRY
SW¼ SE¼ 1202	IR	19.050	1	LEWIS, HENRY
SE¼ SE¼ 1100	IR	2.300	1	BARTON, SUSAN &
SE¼ SE¼ 1101	IR	34.600	1	HANNEN, MICHAEL S
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1102	IR	2.100	l Seeding 22	AVERY, KENNETH R
			Section 23	
NICI/NICI/ 100	מז	26,000	1	DIEDLEY HIDERE
NE¼ NE¼ 100 NW¼ NE¼ 200	IR IR	36.000	1	BIERLEY, HUBERT F
DIAM*/4 DIB*/4 /()()	IK	25.000	1	JOHNSON, GARY
			1	VOCC DICHADD D
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 201	IR	9.000	1	VOSS, RICHARD R
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 201 SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 700	IR IR	9.000 8.000	1	SAMPLES, JACK H
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 201	IR	9.000		-

5	SW¼ NE¼	800	IR	14.000	1	CRAWFORD, MICKEL M
5	SE¼ NE¼	100	IR	25.000	1	BIERLEY, HUBERT F
1	NE¼ NW¼	300	<b>DUST</b>	0.200	1	KERSLAKE, WILLIAM
1	NE¼ NW¼	300	IR	37.800	1	KERSLAKE, WILLIAM
1	NW¼ NW¼	400	IR	23.000	1	G.M. INDTRIES, INC
	SW1/4 NW1/4	500	IR	36.000	1	STULTZ, PAUL D
	SE1/4 NW1/4	1300	IR	17.000	1	HINOJOSA, RUDOLFO
	SE¼ NW¼	600	IR	15.250	1	HINOJOSA, RUDOLFO
	NE¼ SW¼	1200	IR	35.000	1	ASHCRAFT, CAROL
	NW1/4 SW1/4		IR	33.000	1	
		1500	IR			CELEBRADO FAMILY TRUST
				18.200	1	BARTON, SUSAN &
		1501	IR IR	17.800	1	AVERY, KENNETH R
	SE1/4 SW1/4	1600	IR	29.000	1	HANNEN, MICHAEL S
	NE¼ SE¼	900	IR	34.900	1	BIERLEY, HUBERT F
	NW¼ SE¼	1000	IR	28.600	1	SMITH, TRACIE LEE
	NW¼ SE¼	1100	IR	9.700	1	SMITH, TRACIE LEE
	SW1/4 SE1/4	1100	IR	17.700	1	SMITH, TRACIE LEE
S	SW¼ SE¼	1700	DUST	1.000	1	THOMPSON, KENNETH
S	SW¼ SE¼	1700	IR	8.500	1	THOMPSON, KENNETH
S	SW¼ SE¼	1701	IR	10.000	1	SMITH, TRACIE LEE
S	SE¼ SE¼	900	IR	31.000	1	BIERLEY, HUBERT F
					Section 24	•
ì	NW¼ NE¼	102	IR	3.700	1	JONAS, C WAYNE
	SW1/4 NE1/4	101	IR	18.700	1	GEMAEHLICH, ROBERT L
	SW1/4 NE1/4	104	IR	12.000	1	GEMAEHLICH, ROBERT L
	SE¼ NE¼	101	IR	26.800	1	GEMAEHLICH, ROBERT L
	NE¼ NW¼	200	IR	12.000	1	TATE, ROBERT D
	NE14 NW14	300	IR	15.600	1	POLLMAN, DEAN W
	NW¼ NW¼	400	IR	11.800	1	POLLMAN, DEAN W
	NW¼ NW¼	500	IR	23.300	1	POLLMAN, DEAN W
	SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	400	IR			
				5.000	1	POLLMAN, DEAN W
	SW1/4 NW1/4	500	IR ID	9.300	1	POLLMAN, DEAN W
	SE¼ NW¼	200	IR ID	7.000	1	TATE, ROBERT D
	SE¼ NW¼	300	IR	5.000	1	POLLMAN, DEAN W
	W1/4 SW1/4	600	IR	7.300	1	JONAS, C WAYNE
	SW1/4 SW1/4	600	IR	1.600	1	JONAS, C WAYNE
	SW1/4 SW1/4	600	PND	0.100	1	JONAS, C WAYNE
	SE1/4 SW1/4	600	PND	2.300	1	JONAS, C WAYNE
	NE¼ SE¼	700	IR	33.600	1	SINGHOSE, WAYNE
N	√W¼ SE¼	701	IR	13.100	1	SINGHOSE, WAYNE
S	SW¼ SE¼	901	IR	4.800	1	SINGHOSE, WAYNE
S	SE¼ SE¼	800	IR	2.200	1	SINGHOSE, WAYNE
5	SE¼ SE¼	901	IR	7.540	1	SINGHOSE, WAYNE
					Section 25	
N	NW¼ NE¼	200	IR	28.000	1	AMERSON, GUR V
	SW1/4 NE1/4	1000	IR	4.500	1	HOUGHTON, HARRY
	NE¼ NW¼	300	IR	2.600	1	CENTRAL OREGON IRRIGATION
	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	400	IR	1.500	1	GREEN, ALFRED G
	NE1/4 NW1/4	500	IR	4.000	1	ALFALFA COMMUNITY HALL
	NE¼ NW¼	600	IR	18.500	1	HUGHES, GARY D
	NW1/4 NW1/4	600	IR IR	36.600	1	
	SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	600				HUGHES, GARY D
			IR IB	33.500	1	HUGHES, GARY D
	SE¼ NW¼	700	IR IB	29.100	1	HUGHES, GARY D
	W1/4 SW1/4		IR ID	28.940	1	BORLEN, ROBERT
2	SW¼ SW¼	1200	IR	3.400	0	BORLEN, ROBERT
					Section 26	
	IDI/NEC	1000	ID	2.500		CHILDS BLOWN TO TO
1	NE¼ NE¼	1800	IR	3.500	1	CHILDS, RICK K II, ET AL
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NE¼ NE¼	1900	IR	4.000	1	FARRER, KEVIN E
NE1/4 NE1/4	300	IR	8.000	1	MCMILLAN, THOMAS
NE¼ NE¼	400	IR	4.500	1	SISSEL, GERALD STEVE
NE1/4 NE1/4	401	IR	3.500	1	REAMES, JOHN B & MAXINE
NE1/4 NE1/4	500	IR	8.000	1	STAFFORD, KURT
NW¼ NE¼	1100	IR	24.000	1	REAMES, JOHN B & MAXINE
SE¼ NE¼	600	IR	8.000	1	GLENN, LARRY R &
SE¼ NE¼	700	IR	8.000	1	PENNI, THOMAS M
SE1/4 NE1/4	800	IR	8.500	1	HANNA, MARK M
SE¼ NE¼	800	PND	0.100	1	HANNA, MARK M
SE¼ NE¼	900	IR	6.400	1	HANNA, LEONA M
NE¼ NW¼	1101	IR	37.000	1	REAMES, JOHN B
NW¼ NW¼	1102	IR	31.000	1	ALVES, ROBERT G
SW1/4 NW1/4	1200	IR	32.000	1	BURNS, JOHN B
SE1/4 NW1/4	1200	IR	34.000	1	BURNS, JOHN B
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1300	IR	36.400	1	STULTZ, PAUL D
NW1/4 SW1/4	1300	IR	17.600	1	STULTZ, PAUL D
NW1/4 SW1/4	1301	IR	16.000	1	ANDREWS, PAMELA HULSE
SW1/4 SW1/4	1400	IR	35.600	1	O'KULA, DONALD
SE1/4 SW1/4	1400	IR	29.400	1	O'KULA, DONALD
SE1/4 SW1/4	1401	IR	1.500	1	GREGG, JAMES M
NE¼ SE¼	1600	IR	3.500	1	KRUGER, EDWARD W
NE1/4 SE1/4	1601	IR	3.500	1	KRUGER, EDWARD W
NE1/4 SE1/4	1602	IR	4.000	1	SOLITZ, THOMAS J
SE1/4 SE1/4	1700	IR	19.000	1	JONAS, C WAYNE
				Section 27	,
NE¼ NE¼	100	IR	30.000	1	BRADER, DONALD M
NE¼ NE¼	101	IR	1.000	1	LEE, CAROLYN&CARLSON, CHARLES
NW¼ NE¼	200	IR	2.000	1	PETERSON, ARTHUR
NW¼ NE¼	2301	IR	7.000	1	JENO, DONALD V
SE1/4 NE1/4	2300	IR	34.000	1	BRADER, DONALD M
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	2701	IR	2.500	1	GOODMONSON, PETER I
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	2703	IR	2.310	1	GOODMONSON, SHARON B
NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	2704	IR	5.960	1	SMITH, JOELLE M
SE1/4 SW1/4	2701	IR	8.740	1	GOODMONSON, PETER I
SE¼ SW¼	2702	IR	17.000	1	SCOBEE, ROBERT W
SE¼ SW¼	2704	IR	7.770	1	SMITH, JOELLE M
NE1/4 SE1/4	2900	IR	35.200	1	HERRON, ROSEMARY
NW¼ SE¼	2900	IR	17.800	1	HERRON, ROSEMARY
SW1/4 SE1/4	2900	IR	32.200	1	HERRON, ROSEMARY
SE1/4 SE1/4	2900	IR	22.800	1	HERRON, ROSEMARY
				Section 28	
NIDI/NIDI/	100	ID	20.000		MAY IFO
NE¼ NE¼	100	IR ID	28.000	1	MAY, LES
NW¼ NE¼	200	IR IR	4.000	1	ALBERDING, FRED
NE¼ NW¼	300	IR	6.000	1	HIATT, LARRY
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	301	IR	8.000	1	BOOSER, JOANNA &
				Section 33	
NE¼ NW¼	8700	IR	29.700	1	ZEMLICKA, JANICE L
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	29.700	1	DOUGHERTY, STEVE
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR IR	21.200	1	HULSEY, MICHAEL R
		IR	17.100	1	HULSEY, MICHAEL R
JL/4 14 VV /4	0701	110	17.100	Section 34	HODODI, MICHAEL K
				2	
SW1/4 NE1/4	8900	PND	3.000	1	U.S. BLM
				Section 35	
NE¼ NE¼	8900	PND	1.000	1	U.S. BLM
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Section 36 Township 17 South, Range 14 East, W.M.

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BIERLEY, HUBERT F

BIERLEY, HUBERT F

BIERLEY, HUBERT F

SINGHOSE, WAYNE

SW1/4 NW1/4

NW1/4 SW1/4

SW1/4 SW1/4

SE1/4 SW1/4

700

700

700

800

IR

IR

IR

IR

27.000

27.000

25.600

30.600

SE1/4 SW1/4	800	IR	30.600	1	SINGHOSE, WAYNE
SW1/4 SE1/4	900	IR	31.800	1	SINGHOSE, WAYNE
				Section 19	,
				Section 19	
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	1200	IR	25.100	1	CINCHOCE WAYNE
				1	SINGHOSE, WAYNE
NW1/4 SW1/4		IR	9.900	1	SINGHOSE, WAYNE
SW1/4 SW1/4	1300	IR	33.500	1	SINGHOSE, WAYNE
				Section 29	
SW1/4 NW1/4	800	IR	9.900	1	SINGHOSE, WAYNE
SE¼ NW¼	1500	IR	4.500	1	SINGHOSE, WAYNE
NE¼ SW¼	1600	IR	39.100	1	SINGHOSE, WAYNE
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	15.800	1	SINGHOSE, WAYNE
SW1/4 SW1/4	1600	IR	17.200	1	SINGHOSE, WAYNE
	1600				*
SE¼ SW¼		IR	25.900	1	SINGHOSE, WAYNE
NE¼ SE¼	1600	IR	33.600	1	SINGHOSE, WAYNE
NW¼ SE¼	1600	IR	33.800	1	SINGHOSE, WAYNE
SE¼ SE¼	1600	IR	34.739	1	SINGHOSE, WAYNE
				Section 30	
			Township 17	South, Range 1	5 East, W.M.
			•	,	•
NE¼ NE¼	100	IR	2.800	1	COURT, MARTY
NE¼ NE¼	200	IR	21.000	1	GRUND, GARY
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	300	IR	21.000	1	WALLACE, CARL
NW14 NE14	400	IR	1.000	1	
					WALLACE, ZELMA M
NW¼ NE¼	500	IR	1.000	1	WALLACE, JOHN
NW¼ NE¼	600	IR	6.000	1	NEWTON, SHARI L
SE¼ NE¼	200	IR	8.800	1	GRUND, GARY
NE¼ NW¼	100	IR	0.800	1	BURROWS, JULIA D
NE¼ NW¼	200	IR	0.800	1	HART, HAROLD E
NE¼ NW¼	2500	IR	0.560	1	HANSON, LLOYD W
NE¼ NW¼	2600	IR	0.800	1	OSBORN, SHARON M
NE¼ NW¼	2700	IR	1.400	1	JACKSON, NAOMI LOUISE
NE¼ NW¼	2800	IR	0.900	1	URBANEK, PAUL L
NE¼ NW¼	2900	IR	0.800	1	MANOS, TOM
NE¼ NW¼	300	IR	0.800	1	DEWITT, ROB N &
NE¼ NW¼	3000	IR	0.700	1	MATESKI, JAMES
NE¼ NW¼	3100	IR	0.690	1	HILLIARD, DAISEY L
NE'4 NW'4	3200	IR	0.900	1	NELSON, ALAN D
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	3300	IR	0.800		PAULSON, DARCEL V
				1	,
NE¼ NW¼	3400	IR	0.800	1	LINDA OLSON TRUST
NE¼ NW¼	400	IR	1.000	1	PARKER, MERRY A
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	500	IR	0.800	1	EARWICKER, PAUL
NE¼ NW¼	600	IR	0.800	1	LOONEY, EMMA A
NE¼ NW¼	6300	IR	0.410	1	OLSON, ERMELINDA
NE¼ NW¼	6400	IR	0.820	1	MAIN, ROBERT F
NE¼ NW¼	6500	IR	0.950	1	MAYER, WILMA ARDELL
NE¼ NW¼	6600	IR	1.200	1	BORCHIN, MICHAEL C
NE¼ NW¼		IR	1.200	1	FORTNER, RICHARD L
NE¼ NW¼		IR	0.890	1	COURTNEY, RONALD K
NE'4 NW'4	6900	IR	0.810	1	MAYER, WILMA ARDELL
NE¼ NW¼	700	IR	0.800	1	LANDERS, MARK A
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	7000	IR	0.450	1	OWENS, GEORGE A
					•
NE¼ NW¼	800	IR	0.500	1	VERGARI, MARGHERITA L

NE¼ NW¼ 8200	IR	0.610	1	BURLEIGH, DAVID R
NE¼ NW¼ 8300	IR	0.930	1	STALKER, DAVID B
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 8400	IR	0.800	1	CEGELKA, VINCE
NE¼ NW¼ 8500	IR	0.860	1	BURGESS, OTIS
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 8600	IR			•
		0.880	1	STEVENS, DALE R
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 8700	IR	0.560	1	STITZMAN, JERRY A
NW¼ NW¼ 4300	IR	1.360	1	ANKER, HAROLD R
NW¼ NW¼ 5700	IR	0.670	1	SCHUTLE, JEROLYN D
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 5800	IR	0.410	1	CONRAD, KURT J
NW¼ NW¼ 5900	IR	0.670	1	MATHEWS, ERIC W
NW¼ NW¼ 6000	IR	0.900	1	VANDERFORD, JOHN C
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 6100	IR	1.280	1	DODD, HAROLD
NW¼ NW¼ 6200	IR	1.050	1	DODD, GARY MARTIN
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 6300	IR	0.570	1	OLSON, ERMELINDA
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 7000	IR	0.400	1	OWENS, GEORGE A
NW¼ NW¼ 7100	IR	0.690	1	MCJUNKIN, ROGER M
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 7200	IR	1.060	1	
				ZAROSINSKI, RAYMOND F
NW¼ NW¼ 7300	IR	0.970	1	GOSHORN, KARL W JR
NW¼ NW¼ 7400	IR	1.860	1	SCHMIERBACK, GLENDA V
NW¼ NW¼ 7500	IR	1.240	1	HOLDEN, LYNETTE I
NW¼ NW¼ 7600	IR	1.490	1	CAVERHILL, NORMAN E
NW¼ NW¼ 7700	IR	1.850	1	CHURCH, NELS A
NW¼ NW¼ 7800	IR	1.860	1	KLER LIVING TRUST
NW¼ NW¼ 7900	IR	1.590	1	VOGT, KENDRA M
NW¼ NW¼ 8000	IR	0.780	1	MYERS TRUST
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 8100	IR	0.650	1	NELSON, ERIC D
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 8200	IR	0.230	1	BURLEIGH, DAVID R
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 8700	IR	0.600	1	STITZMAN, JERRY A
NW¼ NW¼ 8800	IR	1.000	1	PERRINE, DAVID M
NW¼ NW¼ 8900	IR	0.920	1	ANDERSON, JOHN H
	IR			•
NW¼ NW¼ 9000		1.510	1	LODWICK, JOHN D
SW¼ NW¼ 1500	IR	0.750	1	LLEWELLYN, VERN
SW¼ NW¼ 1600	IR	1.000	1	CARR, LESLIE
SW¼ NW¼ 1700	IR	2.000	1	HILL, HELEN
SW¼ NW¼ 1800	IR	1.500	1	THWAITS, RAYMOND
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1900	IR	1.700	1	NELSON, GARY S
SW¼ NW¼ 2000	IR	1.070	1	DONALD & MARY FORKS TRUST
SW¼ NW¼ 4100	IR	2.400	1	ANKER, HAROLD R
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 4200	IR	0.900	1	ANKER, HAROLD R
SW¼ NW¼ 4300	IR	1.600	1	ANKER, HAROLD R
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 4500	IR	0.800	1	DREWES, JAMES E
SW¼ NW¼ 4600	IR	0.910	1	JARSCKE, DAVID L
SW¼ NW¼ 4700	IR	0.930	1	HADDON, WILLIAM F
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 4800	IR	1.300		•
			1	JONES, FRANK K
SW¼ NW¼ 4900	IR	0.840	1	KATTER, DUANE
SW¼ NW¼ 5000	IR	1.000	1	ANKER, HAROLD R
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 5100	IR	1.300	1	HICKMAN, EUGENE
SW¼ NW¼ 5200	IR	1.000	1	WINSLOW, GARY
SW¼ NW¼ 5300	IR	1.000	1	JOHNSON, WILLIAM
SW¼ NW¼ 5400	IR	2.000	1	KRUGER, CASEY A
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 5500	IR	0.600	1	FREEMAN, HAROLD
SW¼ NW¼ 5600	IR	0.900	1	WARKENTIN, BILL R
SW¼ NW¼ 5700	IR	0.300	1	SCHUTLE, JEROLYN D
SW1/4 NW1/4 5800	IR	0.350	1	CHAPMAN, DENNIS R
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 5900	IR	0.300	1	MATHEWS, ERIC W
				· · · · · · · · · · · · · · · · · · ·
SE¼ NW¼ 1000	IR IB	1.500	1	HUSTON, GERALD
SE'/ NW'/ 1100	IR	1.330	1	SZMANSKI, RONALD
SE¼ NW¼ 1200	IR	1.660	1	SCHLOER, WALTER C
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1300	IR	2.140	1	LEGG, GALEN L
SE¼ NW¼ 1400	IR	1.870	1	BERGSETTER, JOHN E

SE¼ NW¼ 1500	IR	0.460	1	LLEWELLYN, VERN
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 2000	IR	0.720	1	DONALD & MARY FORKS TRUST
SE¼ NW¼ 2100	IR	1.340	1	FRANCIS C BUCK TRUST
SE¼ NW¼ 2200	IR	0.810	1	BEILING, ELLA RUTH
SE¼ NW¼ 2300	IR	1.340	1	NYQUIST, DONOVAN
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 2400	IR	0.830	1	KAPS, ROBERT M
SE¼ NW¼ 2500	IR	0.240	1	HANSON, LLOYD W
SE¼ NW¼ 3100	IR	0.010	i	HILLIARD, DAISEY L
SE¼ NW¼ 3500	IR	0.800	i	TURNER, GARY D
SE¼ NW¼ 3600	IR	0.800	1	KINCH, JAMES N
SE¼ NW¼ 3700	IR	0.700	1	BRIDGE, EDINA F
SE¼ NW¼ 3800	IR	0.700	1	BUNGER, GARY
SE¼ NW¼ 3900	IR	0.660	1	PRITCHARD, CRYSTAL J
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 4000	IR	0.750	1	PRITCHARD, CRYSTAL J
SE' <sub>4</sub> NW' <sub>4</sub> 4100	IR	1.000	1	ANKER, HAROLD R
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 800	IR	0.610	1	VERGARI, MARGHERITA L
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 900	IR	1.500	1	•
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 200	IR	1.000	1	FIELDER, ROGER J
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 300	IR	0.690		CONNERS, THOMAS EDWARD
			1	BOESE, R WILLIAM
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 400	IR	5.000	1	MYHRE, SHEILA BUSH
			Section 1	
NE¼ NE¼ 100	IR	2.000	1	PACK, MICHAEL R
NE¼ NE¼ 101	IR	2.000	1	KING, RICHARD
NE¼ NE¼ 1302	IR	1.380	1	ROONEY, JOHN C
NE¼ NE¼ 1303	IR	8.050	1	BROWN, RICHARD
NE¼ NE¼ 1304	IR	3.000	1	ANDERSON, RUSSELL D
NE¼ NE¼ 1306	IR	1.500	1	WALTON, MRS FRANCIS
NE'4 NE'4 1307	IR	3.300	1	WEISS, JOHANN
NE¼ NE¼ 1310	IR	1.370	1	BLADT, JACOB A
NE'4 NE'4 1311	IR	1.000	1	DRAGT, GREGORY L
NW¼ NE¼ 200	IR	8.000	1	SULLIVAN, CHARLES
NW¼ NE¼ 201	IR	13.800	1	MARKEN, HAROLD
NW¼ NE¼ 201 NW¼ NE¼ 202	IR	1.000	1	LITTLE, CHARLES E
SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 201	IR	22.200	1	MARKEN, HAROLD
	IR	3.000	1	-
				HANES, HAROLD
SE'4 NE'4 1312	IR	10.000	1	EASTERN CASCADE MODEL RR CLUB
SE¼ NE¼ 1313	IR	3.000	1	HICKMAN, RAYMOND R
SE'4 NE'4 1314	IR	2.000	1	BALDERSTON, DALE V
SE'4 NE'4 1315	IR ID	5.400	1	HICKMAN, RAYMOND R
NE¼ NW¼ 300	IR	0.300	1	KERNS, MARK C
NE¼ NW¼ 302	IR	3.000	l	WILSON, ROBERT
NE¼ NW¼ 303	IR	12.260	1	SEELEY, DONALD
NE¼ NW¼ 304	IR	1.020	1	SNYDER, DARRELL W
NE¼ NW¼ 305	IR	0.670	1	COLCLOUGH, CHARLES
NE¼ NW¼ 306	IR	2.000	1	MARSH, DANIEL P
NE¼ NW¼ 307	IR	2.500	1	YATES, DELL
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 308	IR	1.500	1	SUNDERLIN, PAUL L
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1000	IR	1.800	1	NILL, ROBERT G
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1100	IR	1.300	1	SINDELAR, RANDOLPH D
NW¼ NW¼ 1200	IR	1.200	1	VALLANS, PETER
NW¼ NW¼ 1300	IR	1.500	1	DOUVILLE, RICHARD D
NW¼ NW¼ 1400	IR	1.000	1	JARVIS, MARK S
NW¼ NW¼ 1500	IR	1.000	1	JARVIS, MARK S
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1600	IR	1.500	1	VAN CISE, GLENN J
NW¼ NW¼ 1700	IR	1.200	1	SMUIN, ALVIN C
NW¼ NW¼ 1800	IR	1.500	1	HUBLER, MARK J
NW¼ NW¼ 1900	IR	1.500	1	FIRKUS, EDWARD W &
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 200	IR	0.600	1	BREEDLOVE, ELDON
NW¼ NW¼ 2000	IR	0.100	1	FIRKUS, GERALD J

NW¼ NW¼ 300	IR	1.900	1	KIRKPATRICK, ELLIS L
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 400	IR	0.900	1	FULTON, KEVIN
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 500	IR	1.500	1	FULTON, KEVIN
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 600	IR	1.000	1	
				CANTRELL, RALPH
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 700	IR	1.300	1	CANTRELL, RALPH
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 800	IR	1.200	1	STANTON, MICHAEL W
NW¼ NW¼ 900	IR	1.600	1	MYERS, RICHARD C ET AL
SW¼ NW¼ 1000	IR	1.200	1	FISHER, RANDALL G
SW¼ NW¼ 1100	IR	1.400	1	FISHER, RANDALL G
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1200	IR	1.000	1	•
				PUGH, RONALD W
SW¼ NW¼ 1300	IR	1.250	1	ROSENGARTH, ANTHONY
SW¼ NW¼ 1400	IR	0.900	1	ROGERSON, LOUIS
SW¼ NW¼ 1500	IR	0.780	1	ROGERSON, LOUIS
SW¼ NW¼ 1600	IR	1.120	1	OESTMAN, WARREN C
SW¼ NW¼ 1700	IR	0.700	1	CUTTING, GEORGE T
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1800	IR	0.800	1	HELLERUD, SHERMAN A
SW¼ NW¼ 1900	IR			•
		1.400	1	BIEGHLER, ROY W
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 200	IR	0.900	1	DEFOE, DONALD ROSS
SW¼ NW¼ 2000	IR	1.200	1	FIRKUS, GERALD J
SW¼ NW¼ 300	IR	0.600	1	MUTCHIE, SCOTT W
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 400	IR	0.800	1	SOLIZ, VONDA L
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 500	IR	0.400	1	FULTON, KEVIN
SW1/4 NW1/4 500	IR	0.630		•
			1	PENINGTON, ROBERT
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 501	IR	0.370	1	PENINGTON, ROBERT
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 600	IR	0.300	1	CANTRELL, RALPH
SW¼ NW¼ 700	IR	0.300	1	CANTRELL, RALPH
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 700	IR	1.100	1	HURWORTH, ROBERT W
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 800	IR	1.500	1	SMITH, GORDON B
SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 900	IR	0.850	i	SMITH, GORDON B
SE¼ NW¼ 1001	IR	7.000		
			1	PYTKOWICZ, RICARDO
SE¼ NW¼ 1003	IR	20.100	1	SPRINGER, A R
SE¼ NW¼ 1004	IR	0.900	1	SPRINGER, A R
NE¼ SW¼ 1005	IR	1.500	1	QUICK, MICHAEL
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 500	IR	0.800	1	RICE, VERN E
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 502	IR	1.800	1	COCCO, CHESTER R
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 502	PND	0.200	1	COCCO, CHESTER R
	IR			•
		1.000	1	COCCO, CHESTER R
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 600	IR	4.000	1	WOOD, ELLIE
SW¼ SW¼ 900	IR	4.000	1	STRAWN, MARTHA
SW¼ SW¼ 901	IR	4.000	1	TURNBULL, DAVID B
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 902	IR	1.000	1	PETERMAN, KEVIN E
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 903	IR	0.500	1	TAYLOR, OAKLEY D
	***	0.00	•	
$SW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{1}/LSW^{$	IR	1 600	1	•
SW1/4 SW1/4 904	IR IB	1.600	1	ROBERTS, NEAL
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 905	IR	1.000	1	ROBERTS, NEAL CALLAHAN, FRANK
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 905 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 906	IR IR	1.000 5.400	1 1	ROBERTS, NEAL CALLAHAN, FRANK ROBERTS, NEAL
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 905	IR	1.000	1	ROBERTS, NEAL CALLAHAN, FRANK
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 905 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 906	IR IR	1.000 5.400	1 1	ROBERTS, NEAL CALLAHAN, FRANK ROBERTS, NEAL
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 905 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 906 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 907 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 909	IR IR IR IR	1.000 5.400 3.000 1.000	1 1 1 1	ROBERTS, NEAL CALLAHAN, FRANK ROBERTS, NEAL HURITA, ROBERT E GRUND, GARY
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 905 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 906 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 907 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 909 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 910	IR IR IR IR IR	1.000 5.400 3.000 1.000 0.700	1 1 1 1	ROBERTS, NEAL CALLAHAN, FRANK ROBERTS, NEAL HURITA, ROBERT E GRUND, GARY YORK, DAVID
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 905 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 906 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 907 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 909 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 910 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1401	IR IR IR IR IR IR	1.000 5.400 3.000 1.000 0.700 2.000	1 1 1 1 1	ROBERTS, NEAL CALLAHAN, FRANK ROBERTS, NEAL HURITA, ROBERT E GRUND, GARY YORK, DAVID LAKE, JAMES
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 905 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 906 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 907 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 909 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 910 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1401 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1402	IR IR IR IR IR IR IR	1.000 5.400 3.000 1.000 0.700 2.000 4.500	1 1 1 1 1 1	ROBERTS, NEAL CALLAHAN, FRANK ROBERTS, NEAL HURITA, ROBERT E GRUND, GARY YORK, DAVID LAKE, JAMES KISER, WALTER
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 905 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 906 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 907 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 909 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 910 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1401 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1402 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1405	IR	1.000 5.400 3.000 1.000 0.700 2.000 4.500 2.000	1 1 1 1 1 1 1	ROBERTS, NEAL CALLAHAN, FRANK ROBERTS, NEAL HURITA, ROBERT E GRUND, GARY YORK, DAVID LAKE, JAMES KISER, WALTER KNIGHT, HAYNIE G
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 905 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 906 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 907 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 909 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 910 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1401 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1402 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1405 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1407	IR	1.000 5.400 3.000 1.000 0.700 2.000 4.500 2.000 0.500	1 1 1 1 1 1 1	ROBERTS, NEAL CALLAHAN, FRANK ROBERTS, NEAL HURITA, ROBERT E GRUND, GARY YORK, DAVID LAKE, JAMES KISER, WALTER KNIGHT, HAYNIE G PIERATT, TOM
SW'4 SW'4 905 SW'4 SW'4 906 SW'4 SW'4 907 SW'4 SW'4 909 SW'4 SW'4 910 SE'4 SW'4 1401 SE'4 SW'4 1402 SE'4 SW'4 1405 SE'4 SW'4 1407 NE'4 SE'4 1300	IR	1.000 5.400 3.000 1.000 0.700 2.000 4.500 2.000 0.500 6.300	1 1 1 1 1 1 1 1	ROBERTS, NEAL CALLAHAN, FRANK ROBERTS, NEAL HURITA, ROBERT E GRUND, GARY YORK, DAVID LAKE, JAMES KISER, WALTER KNIGHT, HAYNIE G
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 905 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 906 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 907 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 909 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 910 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1401 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1402 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1405 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1407	IR	1.000 5.400 3.000 1.000 0.700 2.000 4.500 2.000 0.500	1 1 1 1 1 1 1	ROBERTS, NEAL CALLAHAN, FRANK ROBERTS, NEAL HURITA, ROBERT E GRUND, GARY YORK, DAVID LAKE, JAMES KISER, WALTER KNIGHT, HAYNIE G PIERATT, TOM
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 905 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 906 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 907 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 909 SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 910 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1401 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1402 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1405 SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> 1407 NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1300 NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> 1308	IR I	1.000 5.400 3.000 1.000 0.700 2.000 4.500 2.000 0.500 6.300	1 1 1 1 1 1 1 1	ROBERTS, NEAL CALLAHAN, FRANK ROBERTS, NEAL HURITA, ROBERT E GRUND, GARY YORK, DAVID LAKE, JAMES KISER, WALTER KNIGHT, HAYNIE G PIERATT, TOM BOESE, RALPH PRIDAY, GORDON
SW'4 SW'4 905 SW'4 SW'4 906 SW'4 SW'4 907 SW'4 SW'4 909 SW'4 SW'4 910 SE'4 SW'4 1401 SE'4 SW'4 1402 SE'4 SW'4 1405 SE'4 SW'4 1407 NE'4 SE'4 1300 NE'4 SE'4 1308 NE'4 SE'4 1317	IR	1.000 5.400 3.000 1.000 0.700 2.000 4.500 2.000 0.500 6.300 0.400 2.000	1 1 1 1 1 1 1 1 1 1	ROBERTS, NEAL CALLAHAN, FRANK ROBERTS, NEAL HURITA, ROBERT E GRUND, GARY YORK, DAVID LAKE, JAMES KISER, WALTER KNIGHT, HAYNIE G PIERATT, TOM BOESE, RALPH PRIDAY, GORDON BOESE, RALPH
SW'4 SW'4 905 SW'4 SW'4 906 SW'4 SW'4 907 SW'4 SW'4 909 SW'4 SW'4 910 SE'4 SW'4 1401 SE'4 SW'4 1402 SE'4 SW'4 1405 SE'4 SW'4 1407 NE'4 SE'4 1300 NE'4 SE'4 1308 NE'4 SE'4 1317 NE'4 SE'4 1318	IR I	1.000 5.400 3.000 1.000 0.700 2.000 4.500 2.000 0.500 6.300 0.400 2.000 1.000	1 1 1 1 1 1 1 1 1 1 1	ROBERTS, NEAL CALLAHAN, FRANK ROBERTS, NEAL HURITA, ROBERT E GRUND, GARY YORK, DAVID LAKE, JAMES KISER, WALTER KNIGHT, HAYNIE G PIERATT, TOM BOESE, RALPH PRIDAY, GORDON BOESE, RALPH OSTRANDER, MARY K
SW'4 SW'4 905 SW'4 SW'4 906 SW'4 SW'4 907 SW'4 SW'4 909 SW'4 SW'4 910 SE'4 SW'4 1401 SE'4 SW'4 1402 SE'4 SW'4 1405 SE'4 SW'4 1407 NE'4 SE'4 1300 NE'4 SE'4 1308 NE'4 SE'4 1317 NE'4 SE'4 1318 NE'4 SE'4 1319	IR I	1.000 5.400 3.000 1.000 0.700 2.000 4.500 2.000 0.500 6.300 0.400 2.000 1.000 3.500	1 1 1 1 1 1 1 1 1 1 1	ROBERTS, NEAL CALLAHAN, FRANK ROBERTS, NEAL HURITA, ROBERT E GRUND, GARY YORK, DAVID LAKE, JAMES KISER, WALTER KNIGHT, HAYNIE G PIERATT, TOM BOESE, RALPH PRIDAY, GORDON BOESE, RALPH OSTRANDER, MARY K ARRASMITH, MICHAEL H
SW'4 SW'4 905 SW'4 SW'4 906 SW'4 SW'4 907 SW'4 SW'4 909 SW'4 SW'4 910 SE'4 SW'4 1401 SE'4 SW'4 1402 SE'4 SW'4 1405 SE'4 SW'4 1407 NE'4 SE'4 1300 NE'4 SE'4 1308 NE'4 SE'4 1317 NE'4 SE'4 1318 NE'4 SE'4 1318 NE'4 SE'4 1319 NE'4 SE'4 1320	IR I	1.000 5.400 3.000 1.000 0.700 2.000 4.500 2.000 0.500 6.300 0.400 2.000 1.000 3.500 0.700	1 1 1 1 1 1 1 1 1 1 1 1	ROBERTS, NEAL CALLAHAN, FRANK ROBERTS, NEAL HURITA, ROBERT E GRUND, GARY YORK, DAVID LAKE, JAMES KISER, WALTER KNIGHT, HAYNIE G PIERATT, TOM BOESE, RALPH PRIDAY, GORDON BOESE, RALPH OSTRANDER, MARY K ARRASMITH, MICHAEL H BODELL, RONALD D
SW'4 SW'4 905 SW'4 SW'4 906 SW'4 SW'4 907 SW'4 SW'4 909 SW'4 SW'4 910 SE'4 SW'4 1401 SE'4 SW'4 1402 SE'4 SW'4 1405 SE'4 SW'4 1407 NE'4 SE'4 1300 NE'4 SE'4 1308 NE'4 SE'4 1317 NE'4 SE'4 1318 NE'4 SE'4 1319 NE'4 SE'4 1320 NE'4 SE'4 1320	IR I	1.000 5.400 3.000 1.000 0.700 2.000 4.500 2.000 0.500 6.300 0.400 2.000 1.000 3.500 0.700 1.000	1 1 1 1 1 1 1 1 1 1 1 1 1	ROBERTS, NEAL CALLAHAN, FRANK ROBERTS, NEAL HURITA, ROBERT E GRUND, GARY YORK, DAVID LAKE, JAMES KISER, WALTER KNIGHT, HAYNIE G PIERATT, TOM BOESE, RALPH PRIDAY, GORDON BOESE, RALPH OSTRANDER, MARY K ARRASMITH, MICHAEL H BODELL, RONALD D SUMMER, DAVID ANDREW
SW'4 SW'4 905 SW'4 SW'4 906 SW'4 SW'4 907 SW'4 SW'4 909 SW'4 SW'4 910 SE'4 SW'4 1401 SE'4 SW'4 1402 SE'4 SW'4 1405 SE'4 SW'4 1407 NE'4 SE'4 1300 NE'4 SE'4 1308 NE'4 SE'4 1317 NE'4 SE'4 1318 NE'4 SE'4 1318 NE'4 SE'4 1319 NE'4 SE'4 1320	IR I	1.000 5.400 3.000 1.000 0.700 2.000 4.500 2.000 0.500 6.300 0.400 2.000 1.000 3.500 0.700	1 1 1 1 1 1 1 1 1 1 1 1	ROBERTS, NEAL CALLAHAN, FRANK ROBERTS, NEAL HURITA, ROBERT E GRUND, GARY YORK, DAVID LAKE, JAMES KISER, WALTER KNIGHT, HAYNIE G PIERATT, TOM BOESE, RALPH PRIDAY, GORDON BOESE, RALPH OSTRANDER, MARY K ARRASMITH, MICHAEL H BODELL, RONALD D

	NW1/4 SE1/4	1101	IR	1.000	1	WARREN, TONY R
	NW1/4 SE1/4	1102	IR	3.000	1	NELSON, HARRY RUSSELL
	NW1/4 SE1/4	1103	IR	1.000	1	RUSSELL, MICHAEL T
	NW1/4 SE1/4		IR	3.000	1	GIBSON, LYNN E
	NW1/4 SE1/4	1105	IR	3.000	1	NELSON, HARRY RUSSELL
	NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1107	IR	3.500	1	NELSON, H.R. & M.E. TRUSTEES
	NW1/4 SE1/4	1108	IR	3.500	1	WIBEL, MICHAEL
	SW1/4 SE1/4		IR	1.500	1	HUETTL, LEELAND
	SW1/4 SE1/4	1200	IR	3.000	1	LOMAX, THOMAS A
	SW1/4 SE1/4 SW1/4 SE1/4	1202	IR	2.000	1	SCHAEFFER, JOHN M &
	SW14 SE14	1203	IR	3.000	1	
	SW14 SE14	1204	IR			LAKE, JAMES
				2.000	1	REAM, GARRY
	SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1206	IR	2.500	1	SAWYER, KEVIN T
	SE1/4 SE1/4	1308	IR	14.600	1 Cantina 2	PRIDAY, GORDON
					Section 2	
	NE¼ NE¼	1000	IR	0.500	1	EDONADADGED DEGGY I
					1	FRONABARGER, PEGGY J
	NE¼ NE¼	104	IR	0.660	1	SPAULDING, GERALD L
	NE¼ NE¼		IR	0.570	1	CARTER, ALTA
	NE¼ NE¼	1300	IR	2.000	1	HOLMES, WILLIAM
	NE¼ NE¼	1400	IR	2.500	1	GIROUX, ERNEST R CONSERVATOR
	NE¼ NE¼	1500	IR	1.500	1	ROBERTS, RICHARD
	NE¼ NE¼	1600	IR	4.500	1	LEWIS, JANICE C
	NE¼ NE¼	1700	IR	2.000	1	LEWIS, JANICE C
	NE¼ NE¼	1800	IR	1.000	1	VAN LANDUYT, LANCE M
	NE¼ NE¼	1900	IR	1.000	1	GUSTAFSON, EUGENE
	NE¼ NE¼	200	IR	1.500	. 1	CENTRAL OREGON IRRIGATION
	NE¼ NE¼	500	IR	0.685	1	VAN ORDEN, GALEN D
	NE¼ NE¼	600	IR	0.535	1	UPTEGROVE, PAUL D
	NE¼ NE¼	601	IR	0.535	1	MORSE, CLAIR E
	NE¼ NE¼	700	IR	1.070	1	DUENO, ELMER E
	NE¼ NE¼	900	IR	0.430	1	JOHNSTON, DALE
	NE¼ NE¼	901	IR	0.250	1	JOHNSTON, DALE
	NW¼ NE¼	100	IR	0.250	1	SMITH, CLIFFORD R
	NW¼ NE¼	1000	IR	0.125	1	CUBERO, EDWARD C
	NW¼ NE¼	1100	IR	0.500	1	NICKERSON, GARY
	NW1/4 NE1/4	1200	IR	0.500	1	GERAGHTY, EDWARD P
	NW1/4 NE1/4	1300	IR	6.700	1	DAVIS, ANNA E
	NW1/4 NE1/4		IR	0.200	1	NEFF, JAMES R
	NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>		IR	4.000	1	DIXON, BARBARA ANN
	NW1/4 NE1/4		IR	4.900	1	FIELDS, JAMES E JR
	NW1/4 NE1/4	300	IR	0.125	1	DUNCAN, JUDITH A
	NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	400	IR	0.125	1	DAY, WILLIAM B
	NW¼ NE¼	600	IR	0.250	1	NEWSOME, RICHARD M
	NW¼ NE¼	700	IR	0.500	1	WIENS, CONNIE L
	NW'4 NE'4	800	IR	0.500	1	KERAMIDIS, BILL
	NW¼ NE¼	900	IR	0.250	1	KESSEL, DONALD W
	SW¼ NE¼	100	IR	2.800	1	FIELDS, JAMES E JR
	SW /4 NE /4 SW 1/4 NE 1/4		IR	0.125	1	PETERS, SCOTT A
	SW /4 NE/4 SW /4 NE /4	1100	IR	0.125	1	BOOTH, EARL S
					1	
	SW1/4 NE1/4		IR ID	0.125 0.125		HENNEOUS, DONALD DANIEL, FORREST M
	SW14 NE14		IR ID		1	· · · · · · · · · · · · · · · · · · ·
	SW14 NE14		IR ID	0.125	1	IPOCK, JACK M
	SW14 NE14	1500	IR IB	0.125	1	MINAHAN, ROBERT D
	SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	1600	IR	0.125	I •	LOVISONE, CLAY D
	SW1/4 NE1/4	1700	IR	0.125	I •	KRISTIANSEN, VILS O
	SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	1800	IR	0.250	1	BRASIER, THOMAS H
	SW¼ NE¼	1900	IR	0.125	1	FERGUSON, MAXINE I ET AL
	SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	200	IR	0.500	1	JENSEN, KIRK A
	SW1/4 NE1/4	2000	IR	0.125	1	ORSULICH, JOANN
T T	D 2 1 1 1 1 1				D 00 - C105	7(250

SW¼ NE¼ 2100	IR 0.125	1	MCGUIRE, MARY JANE
SW¼ NE¼ 2200	IR 0.125	1	KAUTH, DAVID P
SW1/4 NE1/4 2300	IR 0.125	1	DAVIS, GARY R
SW1/4 NE1/4 2400	IR 0.125	1	CARLSON, RICHARD E
SW1/4 NE1/4 2500	IR 0.125	1	RHODES, LARRY J
SW1/4 NE1/4 2600	IR 0.125	1	BURSON, CRAIG L
SW¼ NE¼ 400	IR 0.125	1	GLENVA M CHOTARD, TRUST
SW1/4 NE1/4 500	IR 0.125	1	MADDOX, STEVEN P
SW1/4 NE1/4 600	IR 0.125	1	PAAP, MARK A ETAL
SW¼ NE¼ 700	IR 0.125	1	WICKS, TRACE
SW1/4 NE1/4 800	IR 0.125	1	VOOS, SUSAN I
SW1/4 NE1/4 900	IR 0.125	1	STARIKA, GEORGE E
SE¼ NE¼ 100	IR 1.000	1	WOLFE, GLENNIS
SE¼ NE¼ 1000	IR 2.500	1	HENRY, WILLIAM JR FAMILY TRUST
SE1/4 NE1/4 1200	IR 2.000	1	REID, ORION
SE¼ NE¼ 1300	IR 1.000	1	HOGUE, TOM D
SE¼ NE¼ 1400	IR 0.500	1	BENNETT, TODD D
SE1/4 NE1/4 200	IR 1.000	1	DAVIS, MARVIN
SE1/4 NE1/4 300	IR 2.000	1	GUSTAFSON, EUGENE
SE1/4 NE1/4 400	IR 1.500	1	SODERBURG, ROBERT
SE1/4 NE1/4 500	IR 1.500	1	HARRISON, DENNIS
SE1/4 NE1/4 600	IR 1.000	1	ST. JOHN, JAMES B
SE¼ NE¼ 700	IR 0.900	1	ANDERSON, MILTON
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 701	IR 0.500	1	KLOOS, CHARLES H
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 702	IR 0.750	1	ZABLE, DAVID K
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 703	IR 0.500	1	SLEVIN, JOHN M
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 704	IR 0.900	1	KENNEDY, LARRY G
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 705	IR 0.600	1	DECLERCK, ALBERT
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 800	IR 1.000	1	PIERATT, DEAN
SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> 900	IR 3.000	1	THOMAS, RALPH S
NE¼ NW¼ 100	IR 0.125	1	STONE, JAMES HOYT
NE¼ NW¼ 1000	IR 0.250	1	WINITZKY, WALTER
NE¼ NW¼ 1001	IR 0.125	1	HOYT, JAMES R
NE¼ NW¼ 1002	IR 0.125	1	SOLIZ, RENE
NE¼ NW¼ 1101	IR 0.250	1	DONNELLY, RAE L
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 200	IR 0.250	1	WILLIAMSON, ROGER
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 302	IR 0.125	1	MOODY, DONALD T
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 303	IR 0.125	1	BOWDEN, H STANLEY
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 304	IR 0.125	1	LEA, DOUGLAS
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 305	IR 0.125	1	MCGINNIS, FRANK O
NE¼ NW¼ 307	IR 0.125	1	WOLF, MABEL
NE¼ NW¼ 308	IR 0.125	1	MOORE, JERRY
NE¼ NW¼ 309	IR 0.125	1	BEDINGER, MARK G
NE¼ NW¼ 310	IR 0.125	1	PREMSELAAR, LEONARD
NE¼ NW¼ 311	IR 0.125	1	CUBERO, LOUIS A
NE¼ NW¼ 312	IR 0.125	1	VANDERWAL, PHILIP H
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 318	IR 0.125	1	SALTZMAN, DELLA
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 319	IR 0.125	1	FARLEY, RAYMOND F
NE¼ NW¼ 322	IR 0.125	1	TROZERA FAMILY TRUST
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 324	IR 0.125	1	R & R ENTERPRISES
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 325	IR 0.125	1	VIRGIN, RICHARD T
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 327	IR 0.125	1	DE BARATHY, MARJORIE
NE¼ NW¼ 331	IR 0.125	1	BROWNING, GARY D
NE¼ NW¼ 331	IR 0.125	1	DALE, EUGENE T
NE¼ NW¼ 333	IR 0.125	1	REUSSE, WOLFGANG A
NE¼ NW¼ 334	IR 0.125	1	NASHLUND, ROBYN A
NE¼ NW¼ 335	IR 0.125	1	MANNING LOVING TRUST
NE¼ NW¼ 338	IR 0.125	1	RUMGAY, RICHARD
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 341	IR 0.125	1	BRINES, MICHAEL J
NE¼ NW¼ 400	IR 0.125	1	BARRETT LOVING TRUST
112/41111/4 700	0.123	1	Dinami Do into into i

NEK NWW   504   R   0.105   1					
NEW NWW   505   IR	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 502	IR	0.125	1	COLEMAN, GREGORY A
NEW NWW   506   IR	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 504	IR	0.100	1	
NEW NWW   506   IR   0.125   1   GAGE, THOMAS M	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 505	IR	0.125	1	
NEW   NWW   508   R   0.200   1   WEIBLE, KENT A ETAL     NEW   NWW   511   R   0.125   1   CARROLL, ATTIE SUE     NEW   NWW   512   R   0.110   1   GATES, JUDITH     NEW   NWW   514   R   0.125   1   CARROLL, ATTIE SUE     NEW   NWW   515   R   0.125   1   ONGLEY FAMILY TRUST     NEW   NWW   516   R   0.125   1   VERLEY, ROBERT J     NEW   NWW   516   R   0.125   1   MARSDEN, VIRGINIA     NEW   NWW   517   R   0.125   1   MARSDEN, VIRGINIA     NEW   NWW   518   R   0.125   1   LUSSIER, JANE E     NEW   NWW   519   R   0.125   1   BARO, STEVE C     NEW   NWW   520   R   0.109   1   WEAR, JOHN W     NEW   NWW   521   R   0.125   1   MANLEY, MICHAEL H     NEW   NWW   522   R   0.125   1   MORRIS, CLIFF M     NEW   NWW   523   R   0.125   1   MORRIS, CLIFF M     NEW   NWW   524   R   0.125   1   MORRIS, CLIFF M     NEW   NWW   525   R   0.125   1   BOTTLE, CHRISTINA M     NEW   NWW   528   R   0.125   1   BOTTLE, CHRISTINA M     NEW   NWW   528   R   0.125   1   BOTTLE, CHRISTINA M     NEW   NWW   528   R   0.125   1   PLAGMAN, CHERYL B     NEW   NWW   530   R   0.125   1   ROHDE, TERRY LEE     NEW   NWW   531   R   0.125   1   ROHDE, TERRY LEE     NEW   NWW   533   R   0.125   1   ROHDE, TERRY LEE     NEW   NWW   533   R   0.125   1   ROHDE, TERRY LEE     NEW   NWW   533   R   0.125   1   ROHDE, TERRY LEE     NEW   NWW   538   R   0.125   1   MERRILL, LARRY W     NEW   NWW   538   R   0.125   1   MERRILL, LARRY W     NEW   NWW   539   R   0.125   1   MERRILL, LARRY W     NEW   NWW   530   R   0.125   1   MILLESLAND, GORDON K     NEW   NWW   542   R   0.125   1   MILLESLAND, GORDON K     NEW   NWW   540   R   0.125   1   MILLESLAND, GORDON K     NEW   NWW   540   R   0.125   1   MILLESLAND, GORDON K     NEW   NWW   540   R   0.125   1   MILLESLAND, GORDON K     NEW   NWW   540   R   0.125   1   MILLESLAND, GORDON K     NEW   NWW   540   R   0.125   1   MILLESLAND, GORDON K     NEW   NWW   540   R   0.125   1   MILLESLAND, GORDON K     NEW   NWW   540   R   0.125   1   MILLESLAND, GORDON K     NEW   NWW   540   R	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 506	IR	0.125	1	
NEW   NWW   510	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 508	IR	0.200	1	· · · · · · · · · · · · · · · · · · ·
NEW   NWW   511   IR	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 510	IR	0.125	1	
NE½ NW¼   512   IR   0.110   1   GATES, JUDITH   NE½ NW¼   514   IR   0.125   1   VERLEY, ROBERT J   NE½ NW¾   515   IR   0.125   1   VERLEY, ROBERT J   NE½ NW¾   516   IR   0.125   1   MARSDEN, VIRGINIA   NE½ NW¾   517   IR   0.125   1   MARSDEN, VIRGINIA   NE½ NW¾   518   IR   0.125   1   LUSSIER, JANE E   NE¾ NW¾   519   IR   0.125   1   BARO, STEVE C   NE¾ NW¾   520   IR   0.109   1   WEAR, JOHN W   NE¾ NW¾   521   IR   0.125   1   MANLEY, MICHAEL H   NE¾ NW¾   522   IR   0.125   1   MANLEY, MICHAEL H   NE¾ NW¾   522   IR   0.125   1   MANLEY, MICHAEL H   NE¾ NW¾   523   IR   0.125   1   WAAK, LONNIE   NE¾ NW¾   524   IR   0.125   1   WAAK, LONNIE   NE¾ NW¾   525   IR   0.125   1   SCHIMKE, TIMM D   NE¾ NW¾   525   IR   0.125   1   SCHIMKE, TIMM D   NE¾ NW¾   525   IR   0.125   1   BOTTILE, CHRISTINA M   NE¾ NW¾   526   IR   0.125   1   BOTTILE, CHRISTINA M   NE¾ NW¾   527   IR   0.100   1   RUSSELL, DAVID R   NE¾ NW¾   528   IR   0.125   1   FLAGMAN, CHERYL B   NE¾ NW¾   530   IR   0.125   1   PLAGMAN, CHERYL B   NE¾ NW¾   531   IR   0.125   1   ROHDE, TERRY LEE   NE¾ NW¾   532   IR   0.100   1   HUFF, MARGRETTA B   NE¾ NW¾   533   IR   0.125   1   ROHDE, TERRY LEE   NE¾ NW¾   533   IR   0.125   1   MERRILL, LARRY W   NE¾ NW¾   533   IR   0.125   1   MERRILL, LARRY W   NE¾ NW¾   538   IR   0.125   1   MERRILL, LARRY W   NE¾ NW¾   538   IR   0.125   1   MERRILL, LARRY W   NE¾ NW¾   538   IR   0.125   1   MERRILL, LARRY W   NE¾ NW¾   538   IR   0.125   1   MILLESLAND, GORDON K   NE¾ NW¾   538   IR   0.125   1   MILLESLAND, GORDON K   NE¾ NW¾   540   IR   0.125   1   MILLER, LORIMEN H   NE¾ NW¾   540   IR   0.125   1   MILLER, LORIMEN H   NE¾ NW¾   540   IR   0.125   1   MERRILL, ELAY NE LOGAN   NE¾ NW¾   540   IR   0.125   1   MILLER, LORIMEN H   NE¾ NW¾   540   IR   0.125   1   MILLER, LORIMEN H   NE¾ NW¾   540   IR   0.125   1   MILLER, LORIMEN H   NE¾ NW¾   100   IR   0.125   1   MILLER, LORIMEN H   NE¾ NW¾   100   IR   0.125   1   MARTIN, LESLIE K   NE¾ NW¾   100   IR   0.125   1   MARTIN, LESLIE K   N					
NE½ NW½   514   IR					-
NE½ NW½   515   IR   0.125   1					
NE½ NW½   516   IR   0.125   1   MARSDÉN, VIRGINIA					
NE½ NW½   517   IR					•
NE½ NW¼   518   IR   0.125   1					· ·
NE½ NW½   519   IR   0.125   1   BARO, STEVE C					
NE½ NW½ 520 IR 0.109 1 WEAR_JOHN W NE½ NW½ 521 IR 0.125 1 MANLEY, MICHAEL H NE½ NW½ 522 IR 0.125 1 FLORANCE, BLAINE EDWIN NE½ NW½ 523 IR 0.125 1 WAAK_LONNIE NE½ NW½ 524 IR 0.125 1 WAAK_LONNIE NE½ NW½ 525 IR 0.125 1 SCHIMKE, TIMM D NE½ NW½ 526 IR 0.125 1 BOTTLE, CHRISTINA M NE½ NW½ 527 IR 0.100 1 RUSSELL, DAVID R NE½ NW½ 528 IR 0.125 1 STUCKE, MABEL V ETAL NE½ NW½ 529 IR 0.125 1 RUCKE, MABEL V ETAL NE½ NW½ 529 IR 0.125 1 RUCKE, MABEL V ETAL NE½ NW½ 530 IR 0.125 1 RUCKE, MABEL V ETAL NE½ NW½ 531 IR 0.125 1 RUCKE, MARGEL TA B NE½ NW½ 531 IR 0.125 1 RUCKE, MARGETTA B NE½ NW½ 531 IR 0.125 1 RUCKE, MARGETTA B NE½ NW½ 531 IR 0.125 1 RUCKE, MARGETTA B NE½ NW½ 533 IR 0.125 1 RUCKE, MARGETTA B NE½ NW½ 534 IR 0.125 1 EPPERS IR, DON P NE½ NW½ 535 IR 0.125 1 EPPERS IR, DON P NE½ NW½ 536 IR 0.100 1 WILLIAMS, GREGORY H NE½ NW½ 538 IR 0.125 1 KELLY, DONALD J NE½ NW½ 539 IR 0.125 1 WHITEHURST, TIMOTHY P NE½ NW½ 530 IR 0.125 1 WHITEHURST, TIMOTHY P NE½ NW½ 540 IR 0.100 1 WILLIAMS, GREGORY H NE½ NW½ 540 IR 0.100 1 WILLIAMS, GREGORY H NE½ NW½ 540 IR 0.125 1 CURRIE, ELAYNE LOGAN NE½ NW½ 540 IR 0.125 1 CURRIE, ELAYNE LOGAN NE½ NW½ 540 IR 0.125 1 ELDRED, MALVIN C NE½ NW½ 540 IR 0.125 1 ELDRED, MALVIN C NE½ NW½ 540 IR 0.125 1 MARTIN, LEBLORAN NE½ NW½ 600 IR 0.125 1 MARTIN, LEBLORAN NE½ NW½ 600 IR 0.125 1 LOGAN, PAUL NE½ NW½ 900 IR 0.125 1 LOGAN, PAUL NE½ NW½ 900 IR 0.125 1 LOGAN, PAUL NE½ NW½ 900 IR 0.125 1 REDRED, MALVIN C NE½ NW½ 900 IR 0.125 1 LOGAN, PAUL NE½ NW½ 900 IR 0.125 1 REDRED, MALVIN C NE½ NW½ 900 IR 0.125 1 REDRED, MALVIN C NE½ NW½ 900 IR 0.125 1 REED, IMOGENE R NE½ NW½ 900 IR 0.125 1 REED, IMOGENE R NE½ NW½ 900 IR 0.125 1 REED, IMOGENE R NE½ NW½ 1000 IR 0.125 1 REED, IMOGENE R NE½ NW½ 1000 IR 0.125 1 RALSTON, S R NE½ NW½ 1000 IR 0.125 1 RALSTON, S R NE½ NW½ 1000 IR 0.125 1 RALSTON, S R NE½ NW½ 1000 IR 0.125 1 RALSTON, S R NE½ NW½ 1000 IR 0.125 1 RALSTON, S R NE½ NW½ 1000 IR 0.125 1 BACCH, VENON C SE½ NW½ 11000 IR 0.125 1 BACCH, VENON C					
NE½ NW½ 521 IR 0.125 1 MANLEY, MICHAEL H NE½ NW½ 522 IR 0.125 1 WAAK, LONNIE NE½ NW½ 524 IR 0.125 1 WAAK, LONNIE NE½ NW½ 524 IR 0.125 1 WAAK, LONNIE NE½ NW½ 525 IR 0.125 1 MORRIS, CLIFF M NE½ NW½ 526 IR 0.125 1 BOTTLE, CHRISTINA M NE½ NW½ 526 IR 0.125 1 BOTTLE, CHRISTINA M NE½ NW½ 527 IR 0.100 1 RUSSELL, DAVID R NE½ NW½ 528 IR 0.125 1 STUCKE, MABEL V ETAL NE½ NW¾ 529 IR 0.125 1 PLAGMAN, CHERYL B NE½ NW¾ 529 IR 0.125 1 RIVERMAN, TERRANCE J NE½ NW¾ 530 IR 0.125 1 RIVERMAN, TERRANCE J NE½ NW¾ 531 IR 0.125 1 ROHDE, TERRY LEE NE½ NW¾ 531 IR 0.125 1 ROHDE, TERRY LEE NE½ NW¾ 533 IR 0.125 1 MERRILL, LARRY W NE½ NW¾ 533 IR 0.125 1 EPPERS JR, DON P NE½ NW¾ 536 IR 0.125 1 EPPERS JR, DON P NE½ NW¾ 536 IR 0.100 1 WILLIAMS, GREGORY H NE½ NW¾ 539 IR 0.125 1 WHITEHURST, TIMOTHY P NE½ NW¾ 539 IR 0.125 1 WHITEHURST, TIMOTHY P NE½ NW¾ 539 IR 0.125 1 WHITEHURST, TIMOTHY P NE½ NW¾ 539 IR 0.125 1 CURRIE, ELAYNE LOGAN NE½ NW¾ 540 IR 0.100 1 WILLIAMS, GREGORY H NE½ NW¾ 540 IR 0.100 1 WILLIAMS, GREGORY H NE½ NW¾ 540 IR 0.100 1 WILLIAMS, GREGORY H NE½ NW¾ 540 IR 0.105 1 WHITEHURST, TIMOTHY P NE½ NW¾ 540 IR 0.105 1 WHITEHURST, TIMOTHY P NE½ NW¾ 540 IR 0.105 1 WILLIAMS, GREGORY H NE½ NW¾ 540 IR 0.105 1 WILLIAMS, GREGORY H NE½ NW¾ 540 IR 0.105 1 WILLIAMS, GREGORY H NE½ NW¾ 540 IR 0.105 1 WILLIAMS, GREGORY H NE½ NW¾ 540 IR 0.105 1 WILLIAMS, GREGORY H NE½ NW¾ 540 IR 0.105 1 WILLIAMS, GREGORY H NE½ NW¾ 540 IR 0.125 1 LOGAN, PAUL B NE½ NW¾ 540 IR 0.125 1 LOGAN, PAUL B NE½ NW¾ 540 IR 0.125 1 DELATEUR, DEBORAH L NE½ NW¾ 600 IR 0.125 1 DELATEUR, DEBORAH L NE½ NW¾ 600 IR 0.125 1 DUDLEY, DUANE E NE¾ NW¾ 600 IR 0.125 1 HORDER, JULIA D NE½ NW¾ 900 IR 0.125 1 LOGAN, PAUL NE¾ NW¾ 900 IR 0.125 1 LOGAN, PAUL NE¾ NW¾ 900 IR 0.125 1 LOGAN, PAUL NE¾ NW¾ 1000 IR 0.125 1 RED, JUNGER E NW¾ NW¾ 2000 IR 0.125 1 RED, JUNGER E NW¾ NW¾ 2000 IR 0.125 1 GLASSOW, MADGE G SW¾ NW¾ 2000 IR 0.125 1 WALLACE, ROLAND SE¼ NW¾ 1100 IR 0.125 1 BARCROFT, SANDRA M SE¼ NW¾ 1100 IR 0.125 1 BARCROFT, SANDRA M SE¼ NW¾ 1500 IR 0.125 1 BARCROFT, SANDRA M SE¼ NW¾ 1500 IR 0.125 1 FLEMING		IR			· · · · · · · · · · · · · · · · · · ·
NE½ NW½ 522   IR					•
NE½ NW½ 523   IR					•
NE½ NW½   524   IR   0.125   1   MORRIS, CLIFF M					-
NE½ NW½   525   IR   0.125   1   SCHIMKE, TIMM D					
NE½ NW½   526   IR   0.125   1   BOTTLE, CHRISTINA M     NE½ NW½   527   IR   0.100   1   RUSSELL, DAVID R     NE½ NW½   528   IR   0.125   1   STUCKE, MABEL V ETAL     NE½ NW½   530   IR   0.125   1   RIVERMAN, CHERYL B     NE½ NW¾   531   IR   0.125   1   ROHDE, TERRY LEE     NE½ NW¾   531   IR   0.125   1   ROHDE, TERRY LEE     NE½ NW¾   532   IR   0.100   1   HUFF, MARGRETTA B     NE½ NW¾   533   IR   0.125   1   MERRILL, LARRY W     NE½ NW¾   534   IR   0.125   1   EPPERS JR, DON P     NE½ NW¾   536   IR   0.100   1   WILLIAMS, GREGORY H     NE½ NW¾   538   IR   0.125   1   WHITEHURST, TIMOTHY P     NE¾ NW¾   539   IR   0.125   1   WHITEHURST, TIMOTHY P     NE¾ NW¾   540   IR   0.100   1   WILLIAMS, GREGORY H     NE¾ NW¾   541   IR   0.125   1   CURRIE, ELAYNE LOGAN     NE¾ NW¾   542   IR   0.125   1   CURRIE, ELAYNE LOGAN     NE¾ NW¾   543   IR   0.125   1   CURRIE, ELAYNE LOGAN     NE¾ NW¾   540   IR   0.125   1   ELDRED, MALVIN C     NE¾ NW¾   600   IR   0.125   1   ELDRED, MALVIN C     NE¾ NW¾   601   IR   0.250   1   DE LATEUR, DEBORAH L     NE¾ NW¾   601   IR   0.125   1   LOGAN, PAUL B     NE¾ NW¾   900   IR   0.125   1   LOGAN, PAUL B     NE¾ NW¾   901   IR   0.125   1   LOGAN, PAUL B     NE¾ NW¾   901   IR   0.125   1   LOGAN, PAUL B     NE¾ NW¾   901   IR   0.125   1   LOGAN, PAUL B     NE¾ NW¾   901   IR   0.125   1   LOGAN, PAUL B     NE¾ NW¾   901   IR   0.125   1   LOGAN, PAUL B     NE¾ NW¾   900   IR   0.125   1   LOGAN, PAUL B     NE¾ NW¾   900   IR   0.125   1   LOGAN, PAUL B     NE¾ NW¾   900   IR   0.125   1   LOGAN, PAUL B     NE¾ NW¾   900   IR   0.125   1   LOGAN, PAUL B     NE¾ NW¾   900   IR   0.125   1   LOGAN, PAUL B     NE¾ NW¾   900   IR   0.125   1   LOUTH FAMILY REV LIVING TRUST     SW¾ NW¾   2600   IR   0.125   1   REED, IMOGENE R     SW¾ NW¾   2600   IR   0.125   1   REED, IMOGENE R     SW¾ NW¾   2600   IR   0.125   1   LOUTH FAMILY REV LIVING TRUST     SE¾ NW¾   1000   IR   0.125   1   MCCOY, JOHN A     SE¾ NW¾   1500   IR   0.125   1   BARCROFT, SANDRA M     SE¾ NW¾   15					ŕ
NE½ NW½   527   IR   0.100   1   RUSSELL, DAVID R					
NE½ NW½   528   IR   0.125   1   STUCKE, MABEL V ETAL     NE½ NW½   529   IR   0.125   1   PLAGMAN, CHERYL B     NE½ NW½   530   IR   0.125   1   RIVERMAN, TERRANCE J     NE½ NW½   531   IR   0.125   1   ROHDE, TERRY LEE     NE½ NW½   532   IR   0.100   1   HUFF, MARGRETTA B     NE½ NW½   533   IR   0.125   1   MERRILL, LARRY W     NE½ NW½   534   IR   0.125   1   EPPERS IR, DON P     NE½ NW½   535   IR   0.125   1   WILLIAMS, GREGORY H     NE½ NW½   536   IR   0.100   1   WILLIAMS, GREGORY H     NE½ NW½   539   IR   0.125   1   WHITEHURST, TIMOTHY P     NE½ NW½   539   IR   0.125   1   WHITEHURST, TIMOTHY P     NE½ NW½   540   IR   0.100   1   WILLIAMS, GREGORY H     NE½ NW½   542   IR   0.125   1   CURRIE, ELAYNE LOGAN     NE½ NW½   543   IR   0.125   1   MILLER, LORIMEN H     NE½ NW½   600   IR   0.125   1   ELDRED, MALVIN C     NE½ NW½   601   IR   0.250   1   DE LATEUR, DEBORAH L     NE½ NW½   800   IR   0.125   1   MARTIN, LESLIE K     NE½ NW½   800   IR   0.125   1   LOGAN, PAUL B     NE½ NW½   900   IR   0.125   1   BURROWS, JULIA D     NE½ NW½   901   IR   0.125   1   LOGAN, PAUL B     NE½ NW½   901   IR   0.125   1   LOGAN, PAUL B     NE½ NW½   901   IR   0.125   1   LOGAN, PAUL B     NE½ NW½   900   IR   0.125   1   LOGAN, PAUL B     NE½ NW½   900   IR   0.125   1   LOGAN, PAUL B     NE½ NW½   900   IR   0.125   1   LOGAN, PAUL B     NW½ NW½   3001   IR   0.300   1   DUDLEY, DUANE E     SW½ NW½   2500   IR   0.125   1   REED, IMOGENE R     SW½ NW½   2500   IR   0.125   1   REED, IMOGENE R     SW½ NW½   2500   IR   0.125   1   REED, IMOGENE R     SW½ NW½   2500   IR   0.125   1   RALSTON, S R     SE½ NW½   100   IR   0.125   1   MCCOY, JOHN A     SE½ NW½   1500   IR   0.125   1   MCCOY, JOHN A     SE½ NW½   1500   IR   0.125   1   BACCROFT, SANDRA M     SE½ NW½   1500   IR   0.125   1   BACCROFT, SANDRA M     SE½ NW½   1500   IR   0.125   1   BACCROFT, SANDRA M     SE½ NW½   1700   IR   0.125   1   BAUCH, VERNON C     SE½ NW½   1500   IR   0.125   1   FLEMING, RICHARD A					· ·
NE½ NW½ 529 IR 0.125 1 PLAGMAN, CHERYL B NE½ NW½ 530 IR 0.125 1 RIVERMAN, TERRANCE J NE¾ NW½ 531 IR 0.125 1 ROHDE, TERRY LEE NE¾ NW¾ 532 IR 0.100 1 HUFF, MARGRETTA B NE⅓ NW¼ 533 IR 0.125 1 MERRILL, LARRY W NE⅙ NW¼ 534 IR 0.125 1 EPPERS IR, DON P NE⅙ NW¼ 535 IR 0.125 1 KELLY, DONALD J NE⅙ NW¼ 536 IR 0.100 1 WILLIAMS, GREGORY H NE⅙ NW¼ 538 IR 0.250 1 HILLESLAND, GORDON K NE⅙ NW¼ 539 IR 0.125 1 WHITEHURST, TIMOTHY P NE⅙ NW¼ 540 IR 0.100 1 WILLIAMS, GREGORY H NE⅙ NW¼ 541 IR 0.125 1 CURRIE, ELAYNE LOGAN NE⅙ NW¼ 542 IR 0.125 1 CURRIE, ELAYNE LOGAN NE⅙ NW¼ 640 IR 0.125 1 MILLER, LORIMEN H NE⅙ NW¼ 600 IR 0.125 1 ELDRED, MALVIN C NE⅙ NW¼ 601 IR 0.250 1 DE LATEUR, DEBORAH L NE⅙ NW¼ 700 IR 0.125 1 MARTIN, LESLIE K NE⅙ NW¼ 900 IR 0.125 1 WINITIZKY, WARREN G NE⅙ NW¼ 901 IR 0.125 1 LOGAN, PAUL B NE⅙ NW¼ 901 IR 0.125 1 LOGAN, PAUL B NE⅙ NW¼ 901 IR 0.125 1 LOGAN, PAUL B NE⅙ NW¼ 901 IR 0.125 1 LOGAN, PAUL B NE⅙ NW¼ 901 IR 0.125 1 LOGAN, PAUL B NE⅙ NW¼ 901 IR 0.125 1 LOGAN, PAUL B NE⅙ NW¼ 901 IR 0.125 1 LOGAN, PAUL B NE⅙ NW¼ 901 IR 0.125 1 LOGAN, PAUL B NE⅙ NW¼ 901 IR 0.125 1 LOGAN, PAUL B NE⅙ NW¼ 901 IR 0.125 1 LOGAN, PAUL B NE⅙ NW¼ 901 IR 0.125 1 LOGAN, PAUL B NE⅙ NW¼ 901 IR 0.125 1 LOGAN, PAUL B NE⅙ NW¼ 900 IR 0.125 1 LOGAN, PAUL B NE⅙ NW¼ 1000 IR 0.125 1 REED, IMOGENE R SW¼ NW¼ 2500 IR 0.125 1 REED, IMOGENE R SW¼ NW¼ 2500 IR 0.125 1 REED, IMOGENE R SW¼ NW¼ 2500 IR 0.125 1 REED, IMOGENE R SW¼ NW¼ 2500 IR 0.125 1 WALLACE, ROLAND SE⅙ NW¼ 1000 IR 0.125 1 WALLACE, ROLAND SE⅙ NW¼ 1500 IR 0.125 1 WALLACE, ROLAND SE⅙ NW¼ 1500 IR 0.125 1 BARCROFT, SANDRA M SE⅙ NW¼ 1500 IR 0.125 1 BARCROFT, SANDRA M SE⅙ NW¼ 1500 IR 0.125 1 BARCROFT, SANDRA M SE⅙ NW¼ 1500 IR 0.125 1 BACCH, VERNON C SE⅙ NW¼ 1500 IR 0.125 1 BAUCH, VERNON C SE⅙ NW¼ 1500 IR 0.125 1 BAUCH, VERNON C					•
NE½ NW½   530   IR   0.125   1   RIVERMAN, TERRANCE J     NE½ NW½   531   IR   0.125   1   ROHDE, TERRY LEE     NE½ NW½   532   IR   0.100   1   HUFF, MARGRETTA B     NE½ NW½   533   IR   0.125   1   MERRILL, LARRY W     NE½ NW½   534   IR   0.125   1   EPPERS JR, DON P     NE½ NW½   535   IR   0.125   1   KELLY, DONALD J     NE½ NW½   538   IR   0.125   1   WILLIAMS, GREGORY H     NE½ NW½   539   IR   0.125   1   WHITEHURST, TIMOTHY P     NE½ NW½   539   IR   0.125   1   WHITEHURST, TIMOTHY P     NE½ NW½   540   IR   0.100   1   WILLIAMS, GREGORY H     NE½ NW½   542   IR   0.125   1   CURRIE, ELAYNE LOGAN     NE½ NW½   543   IR   0.125   1   MILLER, LORIMEN H     NE½ NW½   600   IR   0.125   1   ELDRED, MALVIN C     NE½ NW½   601   IR   0.250   1   DE LATEUR, DEBORAH L     NE½ NW½   601   IR   0.125   1   MARTIN, LESLIE K     NE½ NW½   800   IR   0.125   1   WINITZKY, WARREN G     NE½ NW½   900   IR   0.125   1   BURROWS, JULIA D     NE½ NW½   901   IR   0.125   1   LOGAN, PAUL     NE½ NW½   900   IR   0.125   1   LOUAN, ER     NW½ NW¾   100   IR   0.125   1   LEVAGE, ALAN B     NW½ NW¾   2500   IR   0.125   1   REED, IMOGENE R     SW½ NW½   2500   IR   0.125   1   GLASSOW, MADGE G     SE½ NW¾   100   IR   0.125   1   WALLACE, ROLAND     SE½ NW¾   100   IR   0.125   1   MCCOY, JOHN A     SE½ NW¾   1500   IR   0.125   1   BAUCH, VERNON C     SE½ NW¾   1500   IR   0.125   1   BAUCH, VERNON C     SE½ NW¾   1500   IR   0.125   1   BAUCH, VERNON C     SE½ NW¾   1500   IR   0.125   1   FLEMING, RICHARD A					
NE½ NW¼ 531 IR 0.125 1 ROHDE, TERRY LEE NE⅓ NW¼ 532 IR 0.100 1 HUFF, MARGRETTA B NE⅓ NW¼ 533 IR 0.125 1 MERILL, LARRY W NE⅓ NW¼ 534 IR 0.125 1 EPPERS JR, DON P NE⅙ NW¼ 535 IR 0.125 1 KELLY, DONALD J NE⅙ NW¾ 536 IR 0.100 1 WILLIAMS, GREGORY H NE⅙ NW¾ 538 IR 0.250 1 HILLESLAND, GORDON K NE⅙ NW¾ 539 IR 0.125 1 WHITEHURST, TIMOTHY P NE⅙ NW¾ 540 IR 0.100 1 WILLIAMS, GREGORY H NE⅙ NW¾ 543 IR 0.125 1 CURRIE, ELAYNE LOGAN NE⅙ NW¾ 543 IR 0.125 1 CURRIE, ELAYNE LOGAN NE⅙ NW¾ 543 IR 0.125 1 MILLER, LORIMEN H NE⅙ NW¾ 600 IR 0.125 1 ELDRED, MALVIN C NE⅙ NW¾ 600 IR 0.125 1 ELDRED, MALVIN C NE⅙ NW¾ 601 IR 0.250 1 DE LATEUR, DEBORAH L NE⅙ NW¾ 700 IR 0.125 1 MARTIN, LESLIE K NE⅙ NW¾ 900 IR 0.125 1 WINITZKY, WARREN G NE⅙ NW¾ 900 IR 0.125 1 LOGAN, PAUL B NE⅙ NW¾ 901 IR 0.125 1 BURROWS, JULIA D NE⅙ NW¾ 901 IR 0.125 1 LOGAN, PAUL NE⅙ NW¾ 904 IR 0.125 1 LEVAGE, ALAN B NW⅙ NW¾ 3001 IR 0.300 1 DUDLEY, DUANE E NW⅙ NW¾ 3100 IR 0.700 1 DUDLEY, DUANE E SW¼ NW¾ 1001 IR 0.300 1 DUDLEY, DUANE E SW¼ NW¾ 2500 IR 0.125 1 REED, IMOGENE R SW¼ NW¾ 2500 IR 0.125 1 REED, IMOGENE R SW¼ NW¾ 2500 IR 0.125 1 WALLACE, ROLAND SE⅙ NW¾ 1000 IR 0.125 1 REED, IMOGENE R SW¼ NW¾ 2500 IR 0.125 1 REED, IMOGENE R SW¼ NW¾ 2500 IR 0.125 1 WALLACE, ROLAND SE⅙ NW¾ 1000 IR 0.125 1 WALLACE, ROLAND SE⅙ NW¾ 1000 IR 0.125 1 RALSTON, S R SE⅙ NW¾ 1000 IR 0.125 1 WALLACE, ROLAND SE⅙ NW¾ 1100 IR 0.125 1 WALLACE, ROLAND SE⅙ NW¾ 1300 IR 0.125 1 WALLACE, ROLAND SE⅙ NW¾ 1300 IR 0.125 1 BARCROFT, SANDRA M SE⅙ NW¾ 1500 IR 0.125 1 BARCROFT, SANDRA M SE⅙ NW¾ 1500 IR 0.125 1 BARCROFT, SANDRA M SE⅙ NW¾ 1500 IR 0.125 1 BARCROFT, SANDRA M SE⅙ NW¾ 1600 IR 0.125 1 BARCROFT, SANDRA M SE⅙ NW¾ 1600 IR 0.125 1 BACCH, VERNON C SE⅙ NW¾ 1600 IR 0.125 1 BACCH, VERNON C SE⅙ NW¾ 1600 IR 0.125 1 BACCH, VERNON C					•
NE½ NW½ 532 IR 0.100 1 HUFF, MARGRETTA B NE½ NW½ 533 IR 0.125 1 MERRILL, LARRY W NE½ NW½ 534 IR 0.125 1 EPPERS JR, DON P NE½ NW¾ 535 IR 0.125 1 KELLY, DONALD J NE½ NW¾ 536 IR 0.100 1 WILLIAMS, GREGORY H NE½ NW¾ 538 IR 0.250 1 HILLESLAND, GORDON K NE½ NW¾ 539 IR 0.125 1 WHITEHURST, TIMOTHY P NE½ NW¾ 540 IR 0.100 1 WILLIAMS, GREGORY H NE½ NW¾ 543 IR 0.125 1 CURRIE, ELAYNE LOGAN NE½ NW¾ 543 IR 0.125 1 MILLER, LORIMEN H NE½ NW¾ 600 IR 0.125 1 ELDRED, MALVIN C NE½ NW¾ 601 IR 0.250 1 DE LATEUR, DEBORAH L NE½ NW¾ 600 IR 0.125 1 MARTIN, LESLIE K NE½ NW¾ 800 IR 0.125 1 LOGAN, PAUL B NE½ NW¾ 900 IR 0.125 1 BURROWS, JULIA D NE½ NW¾ 901 IR 0.125 1 LOGAN, PAUL NE½ NW¾ 901 IR 0.125 1 LOGAN, PAUL NE¾ NW¾ 901 IR 0.125 1 LEVAGE, ALAN B NW¾ NW¾ 3001 IR 0.300 1 DUDLEY, DUANE E NW¾ NW¾ 3001 IR 0.300 1 DUDLEY, DUANE E SW¾ NW¾ 2500 IR 0.125 1 REED, IMOGENE R SW¾ NW¾ 2500 IR 0.125 1 REED, IMOGENE R SW¾ NW¾ 2500 IR 0.125 1 GLASSOW, MADGE G SE¾ NW¾ 1000 IR 0.125 1 GLASSOW, MADGE G SE¾ NW¾ 1000 IR 0.125 1 RALSTON, S R SE¾ NW¾ 1000 IR 0.125 1 RALSTON, S R SE¾ NW¾ 1000 IR 0.125 1 RALSTON, S R SE½ NW¾ 1000 IR 0.125 1 RALSTON, S R SE½ NW¾ 1100 IR 0.125 1 RALSTON, S R SE½ NW¾ 1500 IR 0.125 1 MCCOY, JOHN A SE½ NW¾ 1500 IR 0.125 1 BAUCH, VERNON C SE½ NW¾ 1500 IR 0.125 1 BAUCH, VERNON C SE½ NW¾ 1500 IR 0.125 1 BAUCH, VERNON C SE½ NW¾ 1600 IR 0.125 1 BAUCH, VERNON C					•
NE½ NW½ 533   IR					•
NE½ NW½ 534   IR					•
NE½ NW½ 535   IR   0.125   1   KELLY, DONALD J     NE½ NW½ 536   IR   0.100   1   WILLIAMS, GREGORY H     NE½ NW½ 538   IR   0.250   1   HILLESLAND, GORDON K     NE½ NW½ 539   IR   0.125   1   WHITEHURST, TIMOTHY P     NE½ NW¼ 540   IR   0.100   1   WILLIAMS, GREGORY H     NE½ NW¼ 542   IR   0.125   1   CURRIE, ELAYNE LOGAN     NE½ NW¼ 543   IR   0.125   1   MILLER, LORIMEN H     NE½ NW¼ 600   IR   0.125   1   ELDRED, MALVIN C     NE½ NW¼ 601   IR   0.250   1   DE LATEUR, DEBORAH L     NE½ NW¼ 700   IR   0.125   1   MARTIN, LESLIE K     NE½ NW¼ 800   IR   0.125   1   LOGAN, PAUL B     NE½ NW¼ 900   IR   0.125   1   BURROWS, JULIA D     NE½ NW¼ 901   IR   0.125   1   LOGAN, PAUL     NE½ NW¾ 903   IR   0.125   1   LOGAN, PAUL     NE½ NW¾ 904   IR   0.125   1   LEVAGE, ALAN B     NW¼ NW¼ 3001   IR   0.300   1   DUDLEY, DUANE E     NW¼ NW¼ 3100   IR   0.300   1   DUDLEY, DUANE E     NW¼ NW¼ 1400   IR   0.125   1   REED, IMOGENE R     SW¼ NW¼ 2500   IR   0.125   1   REED, IMOGENE R     SW¼ NW¼ 2500   IR   0.125   1   REED, IMOGENE R     SW¼ NW¼ 2500   IR   0.125   1   RELD, IMOGENE R     SW¼ NW¼ 2900   IR   1.000   1   SCALISE, SERAFINO A     SW¼ NW¼ 2900   IR   1.000   1   SCALISE, SERAFINO A     SW¼ NW¼ 3000   IR   0.125   1   RALSTON, S R     SE¼ NW¼ 1000   IR   0.125   1   RALSTON, S R     SE¼ NW¼ 1300   IR   0.125   1   MCCOY, JOHN A     SE¼ NW¼ 1500   IR   0.125   1   BARCROFT, SANDRA M     SE¼ NW¼ 1500   IR   0.125   1   BAUCH, VERNON C     SE½ NW¼ 1600   IR   0.125   1   BAUCH, VERNON C     SE½ NW¼ 1800   IR   0.125   1   BAUCH, VERNON C     SE½ NW¼ 1800   IR   0.125   1   BAUCH, VERNON C     SE½ NW¼ 1800   IR   0.125   1   BAUCH, VERNON C     SE½ NW¼ 1800   IR   0.125   1   FLEMING, RICHARD A					
NE½ NW½   536   IR   0.100   1   WILLIAMS, GREGORY H     NE½ NW½   538   IR   0.250   1   HILLESLAND, GORDON K     NE½ NW½   539   IR   0.125   1   WHITEHURST, TIMOTHY P     NE½ NW½   540   IR   0.100   1   WILLIAMS, GREGORY H     NE½ NW½   542   IR   0.125   1   CURRIE, ELAYNE LOGAN     NE½ NW¼   543   IR   0.125   1   MILLER, LORIMEN H     NE½ NW¼   600   IR   0.125   1   ELDRED, MALVIN C     NE½ NW¼   601   IR   0.250   1   DE LATEUR, DEBORAH L     NE½ NW¼   700   IR   0.125   1   MARTIN, LESLIE K     NE½ NW¼   900   IR   0.125   1   WINITZKY, WARREN G     NE½ NW¼   901   IR   0.125   1   BURROWS, JULIA D     NE½ NW¼   903   IR   0.125   1   LOGAN, PAUL     NE½ NW¼   904   IR   0.125   1   LEVAGE, ALAN B     NW¼ NW¼   3001   IR   0.300   1   DUDLEY, DUANE E     NW¼ NW¼   3010   IR   0.700   1   DUDLEY, DUANE E     SW¼ NW¼   2500   IR   0.125   1   REED, IMOGENE R     SW¼ NW¼   2600   IR   0.125   1   REED, IMOGENE R     SW¼ NW¼   2900   IR   0.125   1   GLASSOW, MADGE G     SE¼ NW¼   100   IR   0.125   1   GLASSOW, MADGE G     SE¼ NW¼   100   IR   0.125   1   RALSTON, S R     SE¼ NW¼   100   IR   0.125   1   RALSTON, S R     SE½ NW¼   100   IR   0.125   1   BARCROFT, SANDRA M     SE½ NW¼   1500   IR   0.125   1   BARCROFT, SANDRA M     SE½ NW¼   1700   IR   0.125   1   BARCROFT, SANDRA M     SE½ NW¼   1700   IR   0.125   1   BARCROFT, SANDRA M     SE½ NW¼   1700   IR   0.125   1   BARCROFT, SANDRA M     SE½ NW¼   1700   IR   0.125   1   BARCROFT, SANDRA M     SE½ NW¼   1700   IR   0.125   1   BARCROFT, SANDRA M     SE½ NW¼   1700   IR   0.125   1   BARCROFT, SANDRA M     SE½ NW¼   1700   IR   0.125   1   BARCROFT, SANDRA M     SE½ NW¼   1800   IR   0.125   1   BARCROFT, SANDRA M     SE½ NW¼   1800   IR   0.125   1   BARCROFT, SANDRA M     SE½ NW¼   1800   IR   0.125   1   FLEMING, RICHARD A				1	· · · · · · · · · · · · · · · · · · ·
NE½ NW¼   538   IR   0.250   1				1	
NE½ NW¼   539   IR   0.125   1   WHITEHURST, TIMOTHY P     NE½ NW¼   540   IR   0.100   1   WILLIAMS, GREGORY H     NE½ NW¼   542   IR   0.125   1   CURRIE, ELAYNE LOGAN     NE½ NW¼   543   IR   0.125   1   MILLER, LORIMEN H     NE½ NW¼   600   IR   0.125   1   ELDRED, MALVIN C     NE½ NW¼   601   IR   0.250   1   DE LATEUR, DEBORAH L     NE½ NW¼   700   IR   0.125   1   MARTIN, LESLIE K     NE½ NW¼   800   IR   0.125   1   LOGAN, PAUL B     NE½ NW¼   900   IR   0.125   1   BURROWS, JULIA D     NE½ NW¼   901   IR   0.125   1   LEVAGE, ALAN B     NE½ NW¼   903   IR   0.125   1   LEVAGE, ALAN B     NW¼ NW¼   3001   IR   0.300   1   DUDLEY, DUANE E     NW¼ NW¾   3100   IR   0.700   1   DUDLEY, DUANE E     SW¼ NW¼   2500   IR   0.125   1   REED, IMOGENE R     SW¼ NW¼   2600   IR   0.105   1   HOTALING, LARRY E     SW¼ NW¼   2900   IR   1.000   1   SCALISE, SERAFINO A     SE¾ NW¼   1000   IR   0.125   1   GLASSOW, MADGE G     SE¾ NW¼   1000   IR   0.125   1   RALSTON, S R     SE¾ NW¼   1100   IR   0.125   1   RALSTON, S R     SE¾ NW¼   1500   IR   0.125   1   MCCOY, JOHN A     SE¾ NW¼   1500   IR   0.125   1   BARCROFT, SANDRA M     SE¾ NW¼   1700   IR   0.125   1   BAUCH, VERNON C     SE¾ NW¼   1700   IR   0.125   1   BAUCH, VERNON C     SE¾ NW¼   1700   IR   0.125   1   BAUCH, VERNON C     SE¾ NW¼   1700   IR   0.125   1   BAUCH, VERNON C     SE¾ NW¼   1800   IR   0.125   1   FLEMING, RICHARD A				1	
NE½ NW½ 540   IR   0.100   1   WILLIAMS, GREGORY H     NE½ NW½ 542   IR   0.125   1   CURRIE, ELAYNE LOGAN     NE½ NW½ 543   IR   0.125   1   MILLER, LORIMEN H     NE½ NW½ 600   IR   0.125   1   ELDRED, MALVIN C     NE½ NW½ 601   IR   0.250   1   DE LATEUR, DEBORAH L     NE½ NW½ 700   IR   0.125   1   MARTIN, LESLIE K     NE½ NW½ 800   IR   0.125   1   LOGAN, PAUL B     NE½ NW½ 900   IR   0.125   1   BURROWS, JULIA D     NE½ NW½ 901   IR   0.125   1   LOGAN, PAUL     NE½ NW½ 903   IR   0.125   1   LOGAN, PAUL     NE½ NW½ 904   IR   0.125   1   LOGAN, PAUL     NE½ NW½ 3001   IR   0.300   1   DUDLEY, DUANE E     NW¼ NW¼ 3001   IR   0.300   1   DUDLEY, DUANE E     SW½ NW¼ 1400   IR   0.125   1   REED, IMOGENE R     SW½ NW½ 2500   IR   0.125   1   REED, IMOGENE R     SW½ NW½ 2900   IR   0.105   1   HOTALING, LARRY E     SW½ NW½ 2900   IR   0.125   1   GLASSOW, MADGE G     SE½ NW¼ 1000   IR   0.125   1   RALSTON, S R     SE½ NW¼ 1100   IR   0.125   1   RALSTON, S R     SE½ NW¼ 1500   IR   0.125   1   BARCROFT, SANDRA M     SE½ NW¼ 1500   IR   0.125   1   BARCROFT, SANDRA M     SE½ NW¼ 1500   IR   0.125   1   BARCROFT, SANDRA M     SE½ NW¼ 1700   IR   0.125   1   BAUCH, VERNON C     SE½ NW¼ 1700   IR   0.125   1   BAUCH, VERNON C     SE½ NW¼ 1700   IR   0.125   1   BAUCH, VERNON C     SE½ NW¼ 1700   IR   0.125   1   BAUCH, VERNON C     SE½ NW¼ 1700   IR   0.125   1   BAUCH, VERNON C     SE½ NW¼ 1700   IR   0.125   1   BAUCH, VERNON C     SE½ NW¼ 1700   IR   0.125   1   BAUCH, VERNON C     SE½ NW¼ 1700   IR   0.125   1   BAUCH, VERNON C     SE½ NW¼ 1800   IR   0.125   1   BAUCH, VERNON C     SE½ NW¼ 1800   IR   0.125   1   BAUCH, VERNON C     SE½ NW¼ 1800   IR   0.125   1   FLEMING, RICHARD A     NE½ NW½ 1800   IR   0.125   1   FLEMING, RICHARD A     NE½ NW½ 1800   IR   0.125   1   FLEMING, RICHARD A     NE½ NW½ 1800   IR   0.125   1   FLEMING, RICHARD A     NE½ NE½ NW½ 1800   IR   0.125   1   FLEMING, RICHARD A     NE½ NW½ 1800   IR   0.125   1   FLEMING, RICHARD A     NE½ NW½ 1800   IR   0.125   1   FLEMING, RICHA					
NE¼ NW¼ 542   IR   0.125   1   CURRIE, ELAYNE LOGAN     NE¼ NW¼ 543   IR   0.125   1   MILLER, LORIMEN H     NE¾ NW¼ 600   IR   0.125   1   ELDRED, MALVIN C     NE¾ NW¼ 601   IR   0.250   1   DE LATEUR, DEBORAH L     NE¾ NW¼ 700   IR   0.125   1   MARTIN, LESLIE K     NE¾ NW¼ 800   IR   0.125   1   LOGAN, PAUL B     NE¾ NW¾ 900   IR   0.125   1   BURROWS, JULIA D     NE¾ NW¾ 901   IR   0.125   1   LOGAN, PAUL     NE¾ NW¾ 903   IR   0.125   1   LEVAGE, ALAN B     NE¾ NW¾ 904   IR   0.125   1   LEVAGE, ALAN B     NW¾ NW¾ 3001   IR   0.300   1   DUDLEY, DUANE E     NW¾ NW¾ 3100   IR   0.700   1   DUDLEY, DUANE E     SW¾ NW¾ 1400   IR   0.125   1   REED, IMOGENE R     SW¾ NW¾ 2500   IR   0.125   1   REED, IMOGENE R     SW¾ NW¾ 2600   IR   0.105   1   HOTALING, LARRY E     SW¾ NW¾ 2600   IR   0.105   1   HOTALING, LARRY E     SW¾ NW¾ 2900   IR   1.000   1   SCALISE, SERAFINO A     SW¾ NW¾ 3000   IR   0.125   1   GLASSOW, MADGE G     SE¾ NW¾ 1000   IR   0.125   1   GLASSOW, MADGE G     SE¾ NW¾ 1000   IR   0.125   1   RALSTON, S R     SE¾ NW¾ 1300   IR   0.125   1   RALSTON, S R     SE¾ NW¾ 1500   IR   0.125   1   MCCOY, JOHN A     SE¾ NW¾ 1500   IR   0.125   1   BARCROFT, SANDRA M     SE¾ NW¾ 1600   IR   0.125   1   BARCROFT, SANDRA M     SE¾ NW¾ 1700   IR   0.125   1   BARCROFT, SANDRA M     SE¾ NW¾ 1700   IR   0.125   1   BAUCH, VERNON C     SE¾ NW¾ 1700   IR   0.125   1   BAUCH, VERNON C     SE¾ NW¾ 1800   IR   0.125   1   FLEMING, RICHARD A	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 540	IR	0.100	1	•
NE¼ NW¼         600         IR         0.125         1         ELDRED, MALVIN C           NE¼ NW¼         601         IR         0.250         1         DE LATEUR, DEBORAH L           NE¼ NW¼         700         IR         0.125         1         MARTIN, LESLIE K           NE¼ NW¼         800         IR         0.125         1         LOGAN, PAUL B           NE¼ NW¼         900         IR         0.125         1         WINITZKY, WARREN G           NE¼ NW¼         901         IR         0.125         1         BURROWS, JULIA D           NE¼ NW¼         903         IR         0.125         1         LOGAN, PAUL           NE¼ NW¼         901         IR         0.125         1         LOGAN, PAUL B           NE¼ NW¼         901         IR         0.125         1         LOGAN, PAUL B           NE¼ NW¼         901         IR         0.125         1         LOGAN, PAUL B           NE¼ NW¼         901         IR         0.125         1         LOGAN, PAUL B           NE¼ NW¼         901         IR         0.125         1         DUDLEY, DUANE E           NW¼ NW¼         1400         IR         0.125         1         <	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 542	IR	0.125	1	•
NE¼ NW¼         600         IR         0.125         1         ELDRED, MALVIN C           NE¼ NW¼         601         IR         0.250         1         DE LATEUR, DEBORAH L           NE¼ NW¼         700         IR         0.125         1         MARTIN, LESLIE K           NE¼ NW¼         800         IR         0.125         1         LOGAN, PAUL B           NE¼ NW¼         900         IR         0.125         1         WINITZKY, WARREN G           NE¼ NW¼         901         IR         0.125         1         BURROWS, JULIA D           NE¼ NW¼         903         IR         0.125         1         LOGAN, PAUL           NE¼ NW¼         901         IR         0.125         1         LOGAN, PAUL B           NE¼ NW¼         901         IR         0.125         1         LOGAN, PAUL B           NE¼ NW¼         901         IR         0.125         1         LOGAN, PAUL B           NE¼ NW¼         901         IR         0.125         1         LOGAN, PAUL B           NE¼ NW¼         901         IR         0.125         1         DUDLEY, DUANE E           NW¼ NW¼         1400         IR         0.125         1         <	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 543	IR	0.125	1	MILLER, LORIMEN H
NE½ NW¼         601         IR         0.250         1         DE LATEUR, DEBORAH L           NE½ NW¼         700         IR         0.125         1         MARTIN, LESLIE K           NE¼ NW¼         800         IR         0.125         1         LOGAN, PAUL B           NE¼ NW¼         900         IR         0.125         1         WINITZKY, WARREN G           NE¼ NW¼         901         IR         0.125         1         BURROWS, JULIA D           NE¾ NW¼         903         IR         0.125         1         LOGAN, PAUL           NE¾ NW¼         904         IR         0.125         1         LEVAGE, ALAN B           NW¾ NW¼         3001         IR         0.300         1         DUDLEY, DUANE E           NW¾ NW¼         3100         IR         0.700         1         DUDLEY, DUANE E           SW¼ NW¼         1400         IR         0.125         1         SPENCER, JOHN C           SW¼ NW¼         2500         IR         0.125         1         REED, IMOGENE R           SW¼ NW¼         2600         IR         0.105         1         HOTALING, LARRY E           SW¼ NW¼         2900         IR         1.000         1 </td <td>NE¼ NW¼ 600</td> <td>IR</td> <td>0.125</td> <td>1</td> <td></td>	NE¼ NW¼ 600	IR	0.125	1	
NE¼ NW¼         800         IR         0.125         1         LOGAN, PAUL B           NE½ NW¼         900         IR         0.125         1         WINITZKY, WARREN G           NE½ NW¼         901         IR         0.125         1         BURROWS, JULIA D           NE¼ NW¼         903         IR         0.125         1         LOGAN, PAUL           NE¼ NW¼         904         IR         0.125         1         LEVAGE, ALAN B           NW¼ NW¼         3001         IR         0.300         1         DUDLEY, DUANE E           NW¼ NW¼         3100         IR         0.700         1         DUDLEY, DUANE E           SW¼ NW¼         3100         IR         0.700         1         DUDLEY, DUANE E           SW¼ NW¼         3100         IR         0.125         1         SPENCER, JOHN C           SW¼ NW¼         2500         IR         0.125         1         REED, IMOGENE R           SW¼ NW¼         2600         IR         0.105         1         HOTALING, LARRY E           SW¼ NW¼         2900         IR         1.000         1         SCALISE, SERAFINO A           SE¼ NW¾         1000         IR         0.125         1 </td <td>NE<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> 601</td> <td>IR</td> <td>0.250</td> <td>1</td> <td></td>	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 601	IR	0.250	1	
NE¼ NW¼         900         IR         0.125         1         WINITZKY, WARREN G           NE½ NW¼         901         IR         0.125         1         BURROWS, JULIA D           NE½ NW¼         903         IR         0.125         1         LOGAN, PAUL           NE½ NW¼         904         IR         0.125         1         LEVAGE, ALAN B           NW¼ NW¾         3001         IR         0.300         1         DUDLEY, DUANE E           NW¾ NW¾         3100         IR         0.700         1         DUDLEY, DUANE E           SW¼ NW¾         1400         IR         0.125         1         SPENCER, JOHN C           SW¼ NW¾         2500         IR         0.125         1         REED, IMOGENE R           SW¼ NW¾         2600         IR         0.125         1         HOTALING, LARRY E           SW¼ NW¾         2900         IR         1.000         1         SCALISE, SERAFINO A           SW¼ NW¾         3000         IR         0.125         1         GLASSOW, MADGE G           SE¼ NW¾         1001         IR         0.125         1         WALLACE, ROLAND           SE¼ NW¾         1100         IR         0.125 <td< td=""><td>NE<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> 700</td><td>IR</td><td>0.125</td><td>1</td><td>MARTIN, LESLIE K</td></td<>	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 700	IR	0.125	1	MARTIN, LESLIE K
NE½ NW¼         901         IR         0.125         1         BURROWS, JULIA D           NE½ NW¼         903         IR         0.125         1         LOGAN, PAUL           NE½ NW¼         904         IR         0.125         1         LEVAGE, ALAN B           NW¼ NW¼         3001         IR         0.300         1         DUDLEY, DUANE E           NW¾ NW¼         3100         IR         0.700         1         DUDLEY, DUANE E           SW¼ NW¼         1400         IR         0.125         1         SPENCER, JOHN C           SW¼ NW¼         2500         IR         0.125         1         REED, IMOGENE R           SW¼ NW¼         2600         IR         0.105         1         HOTALING, LARRY E           SW¼ NW¼         2900         IR         1.000         1         SCALISE, SERAFINO A           SW¼ NW¼         3000         IR         0.125         1         GLASSOW, MADGE G           SE¼ NW¼         1000         IR         0.125         1         WALLACE, ROLAND           SE¼ NW¾         1100         IR         0.125         1         RALSTON, S R           SE¼ NW¾         1300         IR         0.125         1 <td>NE<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> 800</td> <td>IR</td> <td>0.125</td> <td>1 .</td> <td>LOGAN, PAUL B</td>	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 800	IR	0.125	1 .	LOGAN, PAUL B
NE½ NW¾         903         IR         0.125         1         LOGAN, PÁUL           NE½ NW¾         904         IR         0.125         1         LEVAGE, ALAN B           NW¾ NW¾         3001         IR         0.300         1         DUDLEY, DUANE E           NW¾ NW¾         3100         IR         0.700         1         DUDLEY, DUANE E           SW¾ NW¾         1400         IR         0.125         1         SPENCER, JOHN C           SW¾ NW¾         2500         IR         0.125         1         REED, IMOGENE R           SW¾ NW¾         2600         IR         0.105         1         HOTALING, LARRY E           SW¾ NW¾         2900         IR         1.000         1         SCALISE, SERAFINO A           SW¾ NW¾         3000         IR         0.125         1         GLASSOW, MADGE G           SE¾ NW¾         1000         IR         0.125         1         WALLACE, ROLAND           SE¾ NW¾         101         IR         0.125         1         LOUTH FAMILY REV LIVING TRUST           SE¾ NW¾         1100         IR         0.125         1         RALSTON, S R           SE¾ NW¾         1500         IR         0.125	NE¼ NW¼ 900	IR	0.125	1	WINITZKY, WARREN G
NE½ NW½         904         IR         0.125         1         LEVAGE, ALAN B           NW½ NW½         3001         IR         0.300         1         DUDLEY, DUANE E           NW½ NW½         3100         IR         0.700         1         DUDLEY, DUANE E           SW½ NW½         1400         IR         0.125         1         SPENCER, JOHN C           SW½ NW½         2500         IR         0.125         1         REED, IMOGENE R           SW½ NW½         2600         IR         0.105         1         HOTALING, LARRY E           SW½ NW½         2900         IR         1.000         1         SCALISE, SERAFINO A           SW½ NW½         3000         IR         0.125         1         GLASSOW, MADGE G           SE½ NW½         1000         IR         0.125         1         WALLACE, ROLAND           SE½ NW½         101         IR         0.125         1         LOUTH FAMILY REV LIVING TRUST           SE½ NW½         1300         IR         0.125         1         RALSTON, S R           SE½ NW½         1500         IR         0.125         1         WICK, SEVIN P           SE½ NW½         1600         IR         0.125	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 901	IR	0.125	1	BURROWS, JULIA D
NW'A NW'A 3001       IR       0.300       1       DUDLEY, DUANE E         NW'A NW'A 3100       IR       0.700       1       DUDLEY, DUANE E         SW'A NW'A 1400       IR       0.125       1       SPENCER, JOHN C         SW'A NW'A 2500       IR       0.125       1       REED, IMOGENE R         SW'A NW'A 2600       IR       0.105       1       HOTALING, LARRY E         SW'A NW'A 2900       IR       1.000       1       SCALISE, SERAFINO A         SW'A NW'A 3000       IR       0.125       1       GLASSOW, MADGE G         SE'A NW'A 1000       IR       0.125       1       WALLACE, ROLAND         SE'A NW'A 101       IR       0.125       1       LOUTH FAMILY REV LIVING TRUST         SE'A NW'A 1100       IR       0.125       1       RALSTON, S R         SE'A NW'A 1300       IR       0.125       1       WICK, SEVIN P         SE'A NW'A 1500       IR       0.125       1       MCCOY, JOHN A         SE'A NW'A 1600       IR       0.125       1       BARCROFT, SANDRA M         SE'A NW'A 1700       IR       0.125       1       BAUCH, VERNON C         SE'A NW'A 1800       IR       0.125       1       FLEMING,	NE¼ NW¼ 903	IR	0.125	1	LOGAN, PAUL
NW¼ NW¼ 3100         IR         0.700         1         DUDLEY, DUANE E           SW¼ NW¼ 1400         IR         0.125         1         SPENCER, JOHN C           SW¼ NW¼ 2500         IR         0.125         1         REED, IMOGENE R           SW¼ NW¼ 2600         IR         0.105         1         HOTALING, LARRY E           SW¼ NW¼ 2900         IR         1.000         1         SCALISE, SERAFINO A           SW¼ NW¼ 3000         IR         0.125         1         GLASSOW, MADGE G           SE¼ NW¼ 1000         IR         0.125         1         WALLACE, ROLAND           SE¼ NW¼ 101         IR         0.125         1         LOUTH FAMILY REV LIVING TRUST           SE¼ NW¼ 1300         IR         0.125         1         RALSTON, S R           SE¼ NW¼ 1500         IR         0.125         1         WICK, SEVIN P           SE¼ NW¼ 1500         IR         0.125         1         MCCOY, JOHN A           SE¼ NW¼ 1600         IR         0.125         1         BARCROFT, SANDRA M           SE¼ NW¼ 1700         IR         0.125         1         BAUCH, VERNON C           SE¼ NW¼ 1800         IR         0.125         1         FLEMING, RICHARD A	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 904	IR	0.125	1	LEVAGE, ALAN B
SW½ NW½ 1400       IR       0.125       1       SPENCER, JOHN C         SW½ NW½ 2500       IR       0.125       1       REED, IMOGENE R         SW½ NW½ 2600       IR       0.105       1       HOTALING, LARRY E         SW½ NW½ 2900       IR       1.000       1       SCALISE, SERAFINO A         SW½ NW½ 3000       IR       0.125       1       GLASSOW, MADGE G         SE½ NW½ 1000       IR       0.125       1       WALLACE, ROLAND         SE½ NW½ 101       IR       0.125       1       LOUTH FAMILY REV LIVING TRUST         SE½ NW½ 1100       IR       0.125       1       RALSTON, S R         SE½ NW½ 1300       IR       0.125       1       WICK, SEVIN P         SE½ NW½ 1500       IR       0.125       1       BARCROFT, SANDRA M         SE½ NW½ 1700       IR       0.125       1       BAUCH, VERNON C         SE½ NW½ 1800       IR       0.125       1       FLEMING, RICHARD A	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 3001	IR	0.300	1	DUDLEY, DUANE E
SW¼ NW¼       2500       IR       0.125       1       REED, IMOGENE R         SW¼ NW¼       2600       IR       0.105       1       HOTALING, LARRY E         SW¼ NW¼       2900       IR       1.000       1       SCALISE, SERAFINO A         SW¼ NW¼       3000       IR       0.125       1       GLASSOW, MADGE G         SE¼ NW¼       1000       IR       0.125       1       WALLACE, ROLAND         SE¼ NW¼       101       IR       0.125       1       LOUTH FAMILY REV LIVING TRUST         SE¼ NW¼       1100       IR       0.125       1       RALSTON, S R         SE¼ NW¼       1300       IR       0.125       1       WICK, SEVIN P         SE¼ NW¼       1500       IR       0.125       1       MCCOY, JOHN A         SE¼ NW¼       1600       IR       0.125       1       BARCROFT, SANDRA M         SE¼ NW¼       1700       IR       0.125       1       BAUCH, VERNON C         SE¼ NW¼       1800       IR       0.125       1       FLEMING, RICHARD A	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 3100	IR	0.700	1	DUDLEY, DUANE E
SW¼ NW¼       2600       IR       0.105       1       HOTALING, LARRY E         SW½ NW½       2900       IR       1.000       1       SCALISE, SERAFINO A         SW½ NW¼       3000       IR       0.125       1       GLASSOW, MADGE G         SE½ NW¾       1000       IR       0.125       1       WALLACE, ROLAND         SE½ NW¾       101       IR       0.125       1       LOUTH FAMILY REV LIVING TRUST         SE½ NW¾       1100       IR       0.125       1       RALSTON, S R         SE½ NW¾       1300       IR       0.125       1       WICK, SEVIN P         SE½ NW¾       1500       IR       0.125       1       MCCOY, JOHN A         SE½ NW¾       1600       IR       0.125       1       BARCROFT, SANDRA M         SE½ NW¾       1700       IR       0.125       1       BAUCH, VERNON C         SE½ NW¾       1800       IR       0.125       1       FLEMING, RICHARD A	SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1400	IR	0.125	1	SPENCER, JOHN C
SW¼ NW¼ 2900       IR       1.000       1       SCALISE, SERAFINO A         SW¼ NW¼ 3000       IR       0.125       1       GLASSOW, MADGE G         SE¼ NW¼ 1000       IR       0.125       1       WALLACE, ROLAND         SE¼ NW¼ 101       IR       0.125       1       LOUTH FAMILY REV LIVING TRUST         SE¼ NW¼ 1100       IR       0.125       1       RALSTON, S R         SE¼ NW¼ 1300       IR       0.125       1       WICK, SEVIN P         SE¼ NW¼ 1500       IR       0.125       1       MCCOY, JOHN A         SE¼ NW¼ 1600       IR       0.125       1       BARCROFT, SANDRA M         SE¼ NW¼ 1700       IR       0.125       1       BAUCH, VERNON C         SE¼ NW¼ 1800       IR       0.125       1       FLEMING, RICHARD A	SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 2500	IR	0.125	1	REED, IMOGENE R
SW¼ NW¼       3000       IR       0.125       1       GLASSOW, MADGE G         SE¼ NW¼       1000       IR       0.125       1       WALLACE, ROLAND         SE¼ NW¼       101       IR       0.125       1       LOUTH FAMILY REV LIVING TRUST         SE¼ NW¼       1100       IR       0.125       1       RALSTON, S R         SE¼ NW¼       1300       IR       0.125       1       WICK, SEVIN P         SE¼ NW¼       1500       IR       0.125       1       MCCOY, JOHN A         SE¼ NW¼       1600       IR       0.125       1       BARCROFT, SANDRA M         SE¼ NW¼       1700       IR       0.125       1       BAUCH, VERNON C         SE¼ NW¼       1800       IR       0.125       1       FLEMING, RICHARD A	SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 2600	IR	0.105	1	HOTALING, LARRY E
SE¼ NW¼       1000       IR       0.125       1       WALLACE, ROLAND         SE¼ NW¼       101       IR       0.125       1       LOUTH FAMILY REV LIVING TRUST         SE¼ NW¼       1100       IR       0.125       1       RALSTON, S R         SE¼ NW¼       1300       IR       0.125       1       WICK, SEVIN P         SE¼ NW¼       1500       IR       0.125       1       MCCOY, JOHN A         SE¼ NW¼       1600       IR       0.125       1       BARCROFT, SANDRA M         SE¼ NW¼       1700       IR       0.125       1       BAUCH, VERNON C         SE¼ NW¼       1800       IR       0.125       1       FLEMING, RICHARD A	SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 2900	IŘ	1.000	1	SCALISE, SERAFINO A
SE¼ NW¼       101       IR       0.125       1       LOUTH FAMILY REV LIVING TRUST         SE¼ NW¼       1100       IR       0.125       1       RALSTON, S R         SE¼ NW¼       1300       IR       0.125       1       WICK, SEVIN P         SE¼ NW¼       1500       IR       0.125       1       MCCOY, JOHN A         SE¼ NW¼       1600       IR       0.125       1       BARCROFT, SANDRA M         SE¼ NW¼       1700       IR       0.125       1       BAUCH, VERNON C         SE¼ NW¼       1800       IR       0.125       1       FLEMING, RICHARD A	SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 3000	IR	0.125	1	GLASSOW, MADGE G
SE¼ NW¼       1100       IR       0.125       1       RALSTON, S R         SE¼ NW¼       1300       IR       0.125       1       WICK, SEVIN P         SE¼ NW¼       1500       IR       0.125       1       MCCOY, JOHN A         SE¼ NW¼       1600       IR       0.125       1       BARCROFT, SANDRA M         SE¼ NW¼       1700       IR       0.125       1       BAUCH, VERNON C         SE¼ NW¼       1800       IR       0.125       1       FLEMING, RICHARD A	SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1000	IR	0.125	1	WALLACE, ROLAND
SE¼ NW¼       1300       IR       0.125       1       WICK, SEVIN P         SE¼ NW¼       1500       IR       0.125       1       MCCOY, JOHN A         SE¼ NW¼       1600       IR       0.125       1       BARCROFT, SANDRA M         SE¼ NW¼       1700       IR       0.125       1       BAUCH, VERNON C         SE¼ NW¼       1800       IR       0.125       1       FLEMING, RICHARD A	SE¼ NW¼ 101	IR	0.125	1	LOUTH FAMILY REV LIVING TRUST
SE¼ NW¼       1500       IR       0.125       1       MCCOY, JOHN A         SE¼ NW¼       1600       IR       0.125       1       BARCROFT, SANDRA M         SE¼ NW¼       1700       IR       0.125       1       BAUCH, VERNON C         SE¼ NW¼       1800       IR       0.125       1       FLEMING, RICHARD A	SE¼ NW¼ 1100	IR	0.125	1	RALSTON, S R
SE¼ NW¼       1600       IR       0.125       1       BARCROFT, SANDRA M         SE¼ NW¼       1700       IR       0.125       1       BAUCH, VERNON C         SE¼ NW¼       1800       IR       0.125       1       FLEMING, RICHARD A	SE¼ NW¼ 1300	IR	0.125	1	WICK, SEVIN P
SE¼ NW¼ 1700       IR       0.125       1       BAUCH, VERNON C         SE¼ NW¼ 1800       IR       0.125       1       FLEMING, RICHARD A	SE¼ NW¼ 1500	IR	0.125	1	MCCOY, JOHN A
SE¼ NW¼ 1800 IR 0.125 1 FLEMING, RICHARD A	SE¼ NW¼ 1600	IR	0.125	1	BARCROFT, SANDRA M
·	SE¼ NW¼ 1700	IR	0.125	1	BAUCH, VERNON C
SE¼ NW¼ 2000 IR 0.125 1 FREWING, DAVID W	SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 1800	IR	0.125	1	•
	SE¼ NW¼ 2000	IR	0.125	1	FREWING, DAVID W

SE¼ NW¼	201	IR	0.125	1	RHOADS, OLAF LEROY
SE¼ NW¼	2100	IR	0.125	1	HORN, DARRYL R
SE1/4 NW1/4	2200	IR	0.125	1	WORDELL, DOUGLAS RAY
SE¼ NW¼	2300	IR	0.125	1	HUSER, MARY JEAN
SE¼ NW¼	2400	IR	0.125	1	LUTHER, ERIC M
SE1/4 NW1/4		IR	0.020	1	HOTALING, LARRY E
SE¼ NW¼		IR	0.250	1	ROA, MICHAEL ANTHONY
SE¼ NW¼	300	IR	0.125	1	
					KELLY, IOLA M
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	0.125	1	HANSEN, TIM S
SE¼ NW¼		IR	0.125	1	HUSSER, GWENDOLYN GAYLE
SE¼ NW¼	3400	IR	0.125	1	PIPES, DARREL D
SE¼ NW¼		IR	0.125	1	HELMS, DENNIS W
SE¼ NW¼	3600	IR	0.125	1	MARTIN, ALVAN E
SE¼ NW¼	3900	IR	0.125	1	FRIER, DENNIS E
SE¼ NW¼	4000	IR	0.125	1	COOK, DAVID K
SE¼ NW¼	4100	IR	0.125	1	ERICKSON, GEORGE E
SE1/4 NW1/4	4700	IR	0.400	1	CECIL D ANDERSON TRUST
SE¼ NW¼	500	IR	0.125	1	NELSON, LYLE C
SE¼ NW¼		IR	0.250	1	HARRIS, KENNETH A
SE1/4 NW1/4		IR	0.250	1	FOWLER, GREGG G
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	600	IR	0.125	1	WISHERED, IONA J
SE¼ NW¼		IR	0.250	1	DAVIS, WILLIAM F
SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	0.250	1	FOXHOVEN, WILLIAM M
SE¼ NW¼		IR	0.250	1	COCHRAN, PARTRICK H
SE¼ NW¼		IR	0.250	1	PORTER, EDGAR N
SE¼ NW¼	6600	IR	0.250	1	WILSON, BRUCE D
SE¼ NW¼	6700	IR	0.250	1	WILLIAMS, DONALD R
SE¼ NW¼		IR	0.250	1	BLAYLOCK, GLEN D
SE¼ NW¼	6900	IR	0.250	1	DIEHL, KERRY G
SE¼ NW¼	700	IR	0.125	1	CHAUNCEY, JAMES R
SE¼ NW¼	900	IR	0.125	1	FARSTVEDT, RAY MARTIN
NE1/4 SE1/4	100	IR	0.500	1	KIRKPATRICK, LEO
NE1/4 SE1/4	1000	IR	0.250	1	BENEFIEL, ARTHUR N
NE1/4 SE1/4	102	IR	1.000	1	KIRKPATRICK, LEO
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	200	IR	4.200	1	WARRINGTON, ERNEST
NE¼ SE¼	201	IR	2.400	1	WARRINGTON, ERNEST
NE¼ SE¼	202	IR	2.200	1	PACKEBUSH, WARREN M
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	400	IR	2.000	1	
					PEDERSON, MICHEAL
NE¼ SE¼	500	IR	2.500	1	SPONGBERG, RAYMOND
NE¼ SE¼	600	IR	1.500	1	SPONGBERG, RAYMOND
NE¼ SE¼	801	IR	0.250	1	LUNDGREN, GERALD E
NW1/4 SE1/4	100	IR	0.250	1	WYKES, R THOMAS
NW¼ SE¼	1000	IR	0.250	1	MACLEAN, NANCY M
NW¼ SE¼	1200	IR	0.250	1	KENT, RALPH J
NW1/4 SE1/4	1300	IR	0.250	1	KENNISTON, STANLEY L
NW¼ SE¼	1400	IR	0.250	1	CARPENTER, BRUCE L
NW1/4 SE1/4	1500	IR	0.250	1	TURNER, SCOTT M
NW1/4 SE1/4	1600	IR	0.250	1	ADAMS, KENNETH D
NW1/4 SE1/4	1700	IR	0.250	1	NOBLE, JOHN D
NW1/4 SE1/4	1800	IR	0.250	1	THE FIKE FAMILY TRUST
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1900	IR	0.250	1	SHORKEY, SCOTT
NW1/4 SE1/4	200	IR	0.250	1	COOPER, ROD L
NW¼ SE¼	2000	IR	0.250	1	SPENCER, VIRGIL R
NW 14 SE 14		IR	0.250	1	SANDERSON, LARRY L
		IR	0.250	1	WESTMORELAND, DONALD C
NW14 SE14					-
NW1/ SE1/	2300	IR	0.250	1	WALTERS, RICHARD J
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>		IR	0.375	1	CORAY, EDWARD A
NW¼ SE¼		IR	0.250	1	EVANS, WILLIAM R
NW¼ SE¼	2800	IR	0.250	1	LANGELIERS, RONALD G
NW¼ SE¼	2900	IR	0.250	1	PURDOM, RANDY G

NW1/4 SE1/4	300	IR	0.250	1	EDGAR, HENRY M & MAUDE E
NW¼ SE¼	3000	IR	0.250	1	KABER, KEITH F
NW¼ SE¼	3100	IR	0.250	1	PUTMAN, CHARLES DALE
NW¼ SE¼	3200	IR	0.250	1	HORN, THOMAS E
NW¼ SE¼	3300	IR	0.250	1	KENNEDY, LEON
NW¼ SE¼	3400	IR	0.250	1	TRUE, RONALD E
NW¼ SE¼	3500	IR	0.250	1	WHITNEY, SHARON KAE
NW¼ SE¼	3700	IR	0.680	1	RAMSEY, FREDERIC M
NW¼ SE¼	3800	IR	0.250	1	ALGER, RICHARD B
NW¼ SE¼	3900	IR	0.250	1	UFFELMAN, TONI T
NW¼ SE¼	400	IR	0.250	1	STACY, FLOYD R
NW¼ SE¼	4000	IR	0.250	1	ELDRIGE, RICHARD S
NW¼ SE¼	4100	IR	0.250	1	THE KERR FAMILY TRUST
NW¼ SE¼	4300	IR	0.375	1	MOSES, JAMES DENNIS
NW¼ SE¼	4400	IR	0.375	1	LAFON, RUTH E
NW¼ SE¼	4600	IR	0.250	1	CLONTZ, GREG D
NW¼ SE¼	500	IR	0.250	1	HOMAN, ALVIN H
NW¼ SE¼	5200	IR	0.250	1	WELSH, JENNIFER E
NW¼ SE¼	5300	IR	0.125	1	KIRK, ROBERT J
NW¼ SE¼	5700	IR	0.125	1	OWENS, CLIFFORD W
NW¼ SE¼	5800	IR	0.125	1	ZIEGLER, MEAD
NW¼ SE¼	5900	IR	0.250	1	TURPIN, MICHAEL S
NW¼ SE¼	600	IR	0.250	1	GOLDSMITH, KATHRYN
NW¼ SE¼	6000	IR	0.250	1	DECKER, CURTIS M
NW¼ SE¼	6100	IR	0.250	1	AKERS, KEVIN J
NW¼ SE¼	6200	IR	0.125	1	NEWER, ROBERT J
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	6300	IR	0.125	1	WILLIAMS, MICHAEL L
NW¼ SE¼	6400	IR	0.250	1	CONNELL, MICHAEL D
NW¼ SE¼	6500	IR	0.250	1	TURNBULL, DAVID L
NW¼ SE¼	700	IR	0.250	1	KLECKER, KENNETH
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	800	IR	0.500	1	PENCE, DON P
NW¼ SE¼	900	IR	0.250	1	ROTUNDI, RICHARD J
SW1/4 SE1/4	1000	IR	0.250	1	DAVIS, MARY ANN
SW1/4 SE1/4	1200	IR	0.220	1	LINDFORS, RALPH V
SW1/4 SE1/4	1300	IR	0.125	1	SMITH, EUGENIE PITTMAN
SW1/4 SE1/4	1400	IR	0.250	1	CANTELMO, THOMAS MICHAEL
SW1/4 SE1/4	1500	IR	0.250	1	OLSON, JAMES B
SW1/4 SE1/4	1800	IR	0.250	1	CARPENTER, MITCHEAL E
SW¼ SE¼	1900	IR	0.250	1	ROGERS, WILLIAM MICHAEL
SW1/4 SE1/4	200	IR	0.250	1	GRADY, WILLIAM RUSSELL
SW1/4 SE1/4	2000	IR	0.250	1	DAMON, JANE E
SW¼ SE¼	2100	IR	0.250	1	PERIN, DAVID
SW¼ SE¼	2200	IR	0.250	1	YANKOVICH, LOUIS G
SW1/4 SE1/4	2300	IR	0.250	1	MAHONEY, TIMOTHY
SW1/4 SE1/4	2400	IR	0.250	1	TAYLOR, DENNIS W
SW1/4 SE1/4	2500	IR	0.250	1	KIPP, THOMAS B
SW1/4 SE1/4	2600	IR	0.250	1	BEAUCHESNE, PAUL R
SW¼ SE¼	2700	IR	0.250	1	WHITING, GEOFFREY M
SW1/4 SE1/4	2800	IR	0.300	1	CARMICHAEL, WILLIAM F
SW¼ SE¼	2900	IR	0.250	1	BRAMALL, JOHN ROBERT
SW1/4 SE1/4	300	IR	0.125	1	MAYBURY, JOHN
SW¼ SE¼	3000	IR	0.250	1	HOSKINS, WILLIAM C
SW¼ SE¼	3100	IR	0.250	1	KLOBAS, MARIE A
SW¼ SE¼	3200	IR	0.250	1	MILLER, JOSEPH W
SW¼ SE¼	3201	IR	0.250	1	HOLLER, O J
SW¼ SE¼	3300	IR	0.250	1	MELLON, SERGE
SW¼ SE¼	3400	IR	0.250	1	HESS, WILLIAM A
SW¼ SE¼	3500	IR	0.250	1	DUNN, DONALD L
SW¼ SE¼	3600	IR	0.250	1	PROCTOR, JAMES F
SW1/4 SE1/4	3700	IR	0.250	1	WILEY, CLEO

SW1/4 SE1/4	3800	IR	0.250	1	SIMONIS, CAROLINE A	
SW1/4 SE1/4	3900	IR	0.250	1	MCINTYRE, NATHAN A	
SW1/4 SE1/4	400	IR	0.125	1	CORDIS, RICHARD L	
SW1/4 SE1/4	4000	IR	0.250	1	ALVIS, GARY C	
SW¼ SE¼	4100	IR	0.250	1	STENKAMP, MICHAEL D	
SW1/4 SE1/4	4200	IR	0.250	1	JANE CORLISS BAILEY REV	TDIICT
	4300	IR				IKUSI
SW¼ SE¼			0.250	1	ELLIOTT, ROBERT C	
SW¼ SE¼	4400	IR	0.250	1	MILLER, PARKE N	
SW1/4 SE1/4	4500	IR	0.250	1	BELL, ORVILLE M	
SW1/4 SE1/4	4600	IR	0.250	1	RUFENER, J MICHAEL	
SW¼ SE¼	4700	IR	0.250	1	DOSER, DARRYL W	
SW¼ SE¼	4900	IR	0.250	1	BRYAN, RODNEY D	
SW1/4 SE1/4	5000	IR	0.250	1	KOLLEN, HAROLD	
SW1/4 SE1/4	5100	IR	0.250	1	MARX, STEVEN DUANE	
SW1/4 SE1/4	5200	IR	0.250	1	REIF, MICHAEL D	
SW1/4 SE1/4	5300	IR	0.250	1	DUDLEY STEPHEN H	
SW1/4 SE1/4	5400	IR	0.250	1	BROWN, WILLIAM R	
SW1/4 SE1/4	5500	IR	0.250	1	BIRD, RICHARD E	
SW1/4 SE1/4	5600	IR	0.250	1	BULOW, FREDERICK A	
SW1/4 SE1/4	5700	IR	0.250	1	JEUCK, JOHN M	
				1	-	
SW1/4 SE1/4	5800	IR	0.250	1	WISBECK, STEVEN W	
SW¼ SE¼	5900	IR	0.250	1	SPADARO, STEVE ETAL	
SW1/4 SE1/4	6000	IR	0.250	1	RICKMAN, JEFFREY J	
SW1/4 SE1/4	6100	IR	0.250	1	HILL, GARRY	
SW¼ SE¼	6200	IR	0.250	1	JANSEN, DAVID P	
SW¼ SE¼	6300	IR	0.250	1	BAKER, MICHAEL C	
SW1/4 SE1/4	6400	IR	0.250	1	KREGAR, DAVID M	
SW1/4 SE1/4	700	IR	0.125	1	DAVIDSON, D DEWAIN	
SW1/4 SE1/4	800	IR	0.125	1	BLOCK, LANCE D	
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1200	IR	0.300	1	DICK, KENNETH R	
SE1/4 SE1/4	200	IR	1.800	1	KAYS, WILLIAM KEITH	
SE1/4 SE1/4	3200	IR	0.500	î	HENDERSON, VICTOR L	
SE14 SE14	3500	IR	1.100	1	STRECKER, JON K	
SE1/4 SE1/4 SE1/4 SE1/4			0.650		BOYER, SHARRON SUE	
	3600	IR		1	•	
SE¼ SE¼	3700	IR	2.000	1	THE NORTHWEST YEARLY	
SE¼ SE¼	400	IR	1.000	1	BISHOP, PAUL C	
SE¼ SE¼	500	IR	1.100	1	ENGSTROM, MICHAEL D	
SE¼ SE¼	600	IR	1.000	1	SMILEY, JIM	
				Section 3		
SW1/4 SW1/4		IR	0.500	1	MCCOY, DWIGHT	
SW1/4 SW1/4	1700	IR	0.500	1	WILLS, ELLEN M	
SW1/4 SW1/4	1800	IR	1.500	1	BORDEN, MARIA M	
SW1/4 SW1/4		IR	1.000	1	PALMER, KEVIN	
SW1/4 SW1/4		IR	2.000	1	SETTLER'S CORNER, INC.	
SE1/4 SW1/4	100	IR	5.000	1	HANCOCK, DAVID M ET AL	
SE1/4 SW1/4	200	IR	1.300	1	LOONEY, WILLIAM	
SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	300	IR	0.200	1	LOONEY, WILLIAM	
		IR		1	BRIGHT, LAWRENCE	
SE1/4 SW1/4	500 600		0.340		KULPINSKI, DIANE J	
SE¼ SW¼	600	IR	0.300	1		
SE¼ SW¼	700	IR	0.330	1	ANDERSON, CHARLES W	
SE1/4 SW1/4	800	IR	0.250	1	CASE, ALISTAIR R	
SE¼ SW¼	900	IR	0.330	1	MCARDLE, JAMES	
SW¼ SE¼	1200	IR	10.000	1	OLDAKER, SAM	
				Section 4		
NW1/4 NW1/4	109	IR	2.900	2	FIFTEEN SW COLORADO	
SE1/4 SW1/4	2600	IR	0.200	1	WALKER, MERLYN	
SE1/4 SW1/4	2700	IR	0.200	1	WALKER, MERLYN	
SE <sup>1</sup> /4 SW <sup>1</sup> /4	2800	IR	0.200	i	WALKER, MERLYN	
DE/4 D 11 /4			3.230	•		
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SETA SWYA   2900				
SW' SE'   1000	SE¼ SW¼ 2900	IR 0.200	1	WALKER MERLYN
SW/S   SE/S   1001   IR   0.300   1   SMITH   LUCILLE				•
SEW. SEW.   1400   IR   4.000   1   HIGGINSON, GALE				
Section 5   Section 5			1	
SW4 NEW   800		111	Section 5	modificati, GALL
SWA NEW   801				
SW\ NE\   S01	SW1/4 NE1/4 800	IR 1.000	1	CENTRAL OREGON IRRIGATION
SE' NEW   800   IR				
SEY NWW				
SW/s SW/s SW/s SW/s SW/s SW/s SW/s SW/s				
SE½ SW½ 800 IR 0.900   1				
NW/A SE/A   800   IR   0.200   1   CENTRAL OREGON IRRIGATION				
NE¼ NW¼   100   IR   1.000   1   DIAZ, RICHARD E				
NE½ NW¼ 1000 IR 1.700 1 GERLICHER, CATHIE NE½ NW¼ 1000 IR 1.700 1 GERLICHER, CATHIE NE½ NW¾ 1001 IR 1.700 1 GERLICHER, CATHIE NE½ NW¾ 1001 IR 1.000 1 TONGE, W MASSEY JR NE½ NW¾ 200 IR 2.800 1 LANNEN, WAYNE NE½ NW¾ 300 IR 2.000 1 LANNEN, WAYNE NE½ NW¾ 301 IR 0.200 1 LANNEN, WAYNE NE½ NW¾ 302 IR 1.000 1 LANNEN, WAYNE NE½ NW¾ 400 IR 0.500 1 SHINE, ANTHONY NE½ NW¾ 400 IR 2.900 1 VILVEN, ALAN C NW¾ NW¾ 400 IR 2.900 1 VILVEN, ALAN C NW¾ NW¾ 400 IR 1.800 1 SHINE, ANTHONY NW¾ NW¾ 500 IR 2.500 1 LSLE, JAMES W NW¾ NW¾ 702 IR 0.600 1 EVANS, GREGORY J NW¾ NW¾ 703 IR 1.400 1 CLIFF & LUCILLE THOMPSON TRUST NW¾ NW¾ 706 IR 1.000 1 DEROCHER, LORA NW¾ NW¾ 701 IR 2.000 1 ELLIOTT, JAMES C NW¾ NW¾ 711 IR 2.000 1 FIGGINS, ARTHUR NW¾ NW¾ 711 IR 1.000 1 HITE, DONALD E NW¾ NW¾ 714 IR 1.100 1 FRANKLIN, KENDALL NW¾ NW¾ 715 IR 0.650 1 GALL, RONALD W NW¾ NW¾ 716 IR 0.650 1 GALL, RONALD W NW¾ NW¾ 701 IR 0.650 1 GALL, RONALD W NW¾ NW¾ 701 IR 0.650 1 GALL, RONALD W NW¾ NW¾ 701 IR 0.650 1 GALL, RONALD W NW¾ NW¾ 701 IR 0.650 1 GALL, RONALD W NW¾ NW¾ 701 IR 0.650 1 GALL, RONALD W NW¾ NW¾ 701 IR 0.650 1 GALL, RONALD W NW¾ NW¾ 701 IR 0.650 1 GALL, RONALD W NW¾ NW¾ 701 IR 0.650 1 GALL, RONALD W NW¾ NW¾ 801 IR 0.900 1 CLIFF & LUCILLE THOMPSON TRUST Section 8  NW¾ NW¾ 801 IR 0.900 1 CLIFF & LUCILLE THOMPSON TRUST Section 9  NE¼ NE¾ 200 IR 1.000 1 REID, ORION NW¾ NE¾ 2300 IR 0.100 1 REID, ORION NW¾ NE¾ 2300 IR 0.100 1 REID, ORION NW¾ NE¾ 2400 IR 0.400 1 REID, ORION NW¾ NE¾ 2500 IR 0.200 1 REID, ORION NW¾ NE¾ 500 IR 0.200 1 REID, ORION				
NEW NWW 1000				
NEW NWW 1000   IR	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 100	IR 1.000	1	DIAZ, RICHARD E
NEW NWW   1001   IR	NE¼ NW¼ 1000	IR 1.700		*
NEW NWW   101   IR   1.000	NE¼ NW¼ 1001	IR 1.700		· ·
NEW NWW	NE¼ NW¼ 101			,
NE½ NW¼   300   IR   2.000   1				•
NEW NWW	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 300			•
NE½ NW¼   302   IR   1.000   1				
NE½ NW¼   400   IR   0.500   1   SHINE, ANTHONY				*
NE½ NW½ 900				
NW¼ NW¼ 400 IR 1.800 1 SHINE, ÁNTHONY NW¼ NW¼ 500 IR 2.500 1 LISLE, JAMES W N¼ NW¼ 702 IR 0.600 1 EVANS, GREGORY J NW¼ NW¼ 703 IR 1.400 1 CLIFF & LUCILLE THOMPSON TRUST NW¼ NW¼ 704 IR 0.500 1 DEROCHER, LORA NW¼ NW¼ 706 IR 1.000 1 HOLLOWAY, ANDREW F NW¼ NW¼ 708 IR 2.000 1 ELLIOTT, JAMES C NW¼ NW¼ 711 IR 2.000 1 FIGGINS, ARTHUR NW¼ NW¼ 713 IR 1.000 1 HITE, DONALD E N¼ NW¼ 715 IR 0.650 1 GALL, RONALD W NW¼ NW¼ 716 IR 0.650 1 GALL, RONALD W NW¼ NW¼ 716 IR 0.650 1 GALL, RONALD W NW¼ NW¼ 716 IR 0.650 1 CENTRAL OREGON IRRIGATION NW¼ NW¼ 801 IR 0.900 1 CENTRAL OREGON IRRIGATION SW¼ NW¼ 801 IR 0.900 1 CENTRAL OREGON IRRIGATION SW¼ NW¼ 801 IR 0.900 1 CENTRAL OREGON IRRIGATION SW¼ NW¼ 801 IR 0.900 1 CENTRAL OREGON IRRIGATION NW¼ NW¼ 1100 IR 7.630 1 MEISNER, FRANCES FRANKLIN-ET SECTION 8  NW¼ NW¼ 1000 IR 0.300 1 MEISNER, FRANCES FRANKLIN-ET SECTION 9  NE¼ NE¼ 200 IR 1.000 1 KRUGGER, CASEY A NE¼ NE¼ 400 IR 1.750 1 MOUNTAIN VISTA PARTNERS NW¼ NE¼ 2300 IR 0.100 1 REID, ORION NW¼ NE¼ 2400 IR 0.400 1 REID, ORION NW¼ NE¼ 2500 IR 0.500 1 REID, ORION NW¼ NE¼ 2500 IR 0.400 1 REID, ORION NW¼ NE¼ 2500 IR 0.400 1 REID, ORION NW¼ NE½ 500 IR 0.400 1 REID, ORION NW¼ NE½ 500 IR 0.200 1 REID, ORION	NE¼ NW¼ 900	IR 2.900		
NW¼ NW¼ S00	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 400			-
NW¼ NW¼ 702 IR 0.600 1 EVANS, GREGORY J NW¼ NW¼ 703 IR 1.400 1 CLIFF & LUCILLE THOMPSON TRUST NW¼ NW¼ 704 IR 0.500 1 DEROCHER, LORA NW¼ NW¼ 706 IR 1.000 1 HOLLOWAY, ANDREW F NW¼ NW¼ 708 IR 2.000 1 ELLIOTT, JAMES C NW¼ NW¼ 711 IR 2.000 1 FIGGINS, ARTHUR NW¼ NW¼ 713 IR 1.000 1 HITE, DONALD E NW¼ NW¼ 714 IR 1.100 1 FRANKLIN, KENDALL NW¼ NW¼ 715 IR 0.650 1 GALL, RONALD W NW¼ NW¼ 716 IR 0.650 1 SHIELDS, JERALD C NW¼ NW¼ 703 IR 0.600 1 CLIFF & LUCILLE THOMPSON TRUST SW¼ NW¼ 801 IR 0.900 1 CENTRAL OREGON IRRIGATION SW¼ NW¼ 703 IR 0.600 1 CLIFF & LUCILLE THOMPSON TRUST SW¼ NW¼ 801 IR 0.900 1 CENTRAL OREGON IRRIGATION Section 8  NW¼ NW¼ 1000 IR 0.300 1 MEISNER, FRANCES FRANKLIN-ET NW¼ NW¼ 1100 IR 7.630 1 SETTLER'S CORNER, INC.  Section 9  NE¼ NE¼ 3603 IR 0.200 1 KRUGER, CASEY A NE¼ NE¼ 3603 IR 0.200 1 REID, ORION NW¼ NE¼ 2300 IR 0.100 1 REID, ORION NW¼ NE¼ 2300 IR 0.100 1 REID, ORION NW¼ NE¼ 2400 IR 0.400 1 REID, ORION NW¼ NE½ 2500 IR 0.500 1 REID, ORION NW¼ NE½ 2500 IR 0.500 1 REID, ORION NW¼ NE½ 2500 IR 0.400 1 REID, ORION NW¼ NE½ 2500 IR 0.400 1 REID, ORION NW¼ NE½ 2500 IR 0.500 1 REID, ORION NW¼ NE½ 2500 IR 0.400 1 REID, ORION NW¼ NE½ 2500 IR 0.200 1 REID, ORION NW¼ NE½ 500 IR 0.200 1 REID, ORION	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 500	IR 2.500		The state of the s
NW¼ NW¼ 703 IR 1.400 1 CLIFF & LUCILLE THOMPSON TRUST NW¼ NW¼ 704 IR 0.500 1 DEROCHER, LORA NW¼ NW¼ 706 IR 1.000 1 HOLLOWAY, ANDREW F NW¼ NW¼ 708 IR 2.000 1 ELLIOTT, JAMES C NW¼ NW¼ 711 IR 2.000 1 FIGGINS, ARTHUR NW¼ NW¼ 711 IR 1.000 1 HITE, DONALD E NW¼ NW¼ 715 IR 0.650 1 GALL, RONALD W NW¼ NW¼ 716 IR 0.650 1 GALL, RONALD W NW¼ NW¼ 716 IR 0.650 1 CENTRAL OREGON IRRIGATION SW¼ NW¼ 703 IR 0.600 1 CENTRAL OREGON IRRIGATION SW¼ NW¼ 801 IR 0.900 1 CENTRAL OREGON IRRIGATION SW¼ NW¼ 801 IR 0.900 1 CENTRAL OREGON IRRIGATION Section 8  NW¼ NW¼ 1000 IR 0.300 1 MEISNER, FRANCES FRANKLIN-ET SETTLER'S CORNER, INC.  Section 9  NE¼ NE¼ 200 IR 1.000 1 LOVING, LEWEY L NE¼ NE¼ 3603 IR 0.200 1 KRUGER, CASEY A NE¼ NE¼ 401 IR 1.750 1 MOUNTAIN VISTA PARTNERS NW¼ NE¼ 2300 IR 0.100 1 REID, ORION NW¼ NE¼ 2500 IR 0.400 1 REID, ORION NW¼ NE¼ 2500 IR 0.400 1 REID, ORION NW¼ NE¼ 2600 IR 0.200 1 REID, ORION NW¼ NE¼ 500 PND 1.300 1 REID, ORION NW¼ NE¼ 500 PND 1.300 1 REID, ORION NW¼ NE¼ 500 IR 0.200 1 REID, ORION NW¼ NE¾ 500 IR 0.200 1 REID, ORION	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 702			· ·
NW¼ NW¼ 706 IR 1.000 1 HOLLOWAY, ANDREW F NW¼ NW¼ 708 IR 2.000 1 ELLIOTT, JAMES C NW¼ NW¼ 711 IR 2.000 1 FIGGINS, ARTHUR NW¼ NW¼ 713 IR 1.000 1 HITE, DONALD E NW¼ NW¼ 714 IR 1.100 1 FRANKLIN, KENDALL NW¼ NW¼ 715 IR 0.650 1 GALL, RONALD W NW¼ NW¼ 716 IR 0.650 1 SHIELDS, JERALD C NW¼ NW¼ 801 IR 0.900 1 CENTRAL OREGON IRRIGATION SW¼ NW¼ 801 IR 0.900 1 CENTRAL OREGON IRRIGATION SW¼ NW¼ 801 IR 0.900 1 CENTRAL OREGON IRRIGATION Section 8  NW¼ NW¼ 1000 IR 0.300 1 MEISNER, FRANCES FRANKLIN-ET NW¼ NW¼ 1100 IR 7.630 1 SETTLER'S CORNER, INC.  Section 9  NE¼ NE¼ 200 IR 1.000 1 LOVING, LEWEY L NE¼ NE¼ 3603 IR 0.200 1 KRUGER, CASEY A NE¼ NE¼ 401 IR 1.750 1 MOUNTAIN VISTA PARTNERS NW¼ NE¼ 2300 IR 0.100 1 REID, ORION NW¼ NE¼ 2500 IR 0.400 1 REID, ORION NW¼ NE¼ 2500 IR 0.400 1 REID, ORION NW¼ NE¼ 2600 IR 0.400 1 REID, ORION NW¼ NE¼ 2700 IR 0.400 1 REID, ORION NW¼ NE¼ 2800 IR 0.200 1 REID, ORION NW¼ NE¼ 2700 IR 0.400 1 REID, ORION NW¼ NE¼ 2700 IR 0.200 1 REID, ORION NW¼ NE¼ 500 IR 0.200 1 REID, ORION NW¼ NE¼ 5500 IR 0.200 1 REID, ORION	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 703	IR 1.400		· · · · · · · · · · · · · · · · · · ·
NW¼ NW¼ 706   IR   1.000   1   HOLLOWAY, ANDREW F     NW¼ NW¼ 708   IR   2.000   1   ELLIOTT, JAMES C     NW¼ NW¼ 711   IR   2.000   1   FIGGINS, ARTHUR     NW¼ NW¼ 713   IR   1.000   1   HITE, DONALD E     NW¼ NW¼ 714   IR   1.100   1   FRANKLIN, KENDALL     NW¼ NW¼ 715   IR   0.650   1   GALL, RONALD W     NW¼ NW¼ 716   IR   0.650   1   SHIELDS, JERALD C     NW¼ NW¼ 801   IR   0.900   1   CENTRAL OREGON IRRIGATION     SW¼ NW¼ 703   IR   0.600   1   CLIFF & LUCILLE THOMPSON TRUST     SW¼ NW¼ 801   IR   0.900   1   CENTRAL OREGON IRRIGATION     Section 8     NW¼ NW¼ 1000   IR   0.300   1   MEISNER, FRANCES FRANKLIN-ET     NW¼ NW¼ 1100   IR   7.630   1   SETTLER'S CORNER, INC.     Section 9     NE¼ NE¼ 200   IR   1.000   1   LOVING, LEWEY L     NE¾ NE¼ 3603   IR   0.200   1   KRUGER, CASEY A     NE¾ NE¼ 401   IR   1.750   1   MOUNTAIN VISTA PARTNERS     NW¼ NE¼ 2300   IR   0.100   1   REID, ORION     NW¼ NE½ 2400   IR   0.400   1   REID, ORION     NW¼ NE½ 2500   IR   0.500   1   REID, ORION     NW¼ NE½ 2600   IR   0.400   1   REID, ORION     NW¼ NE½ 2600   IR   0.400   1   REID, ORION     NW¼ NE½ 2700   IR   0.400   1   REID, ORION     NW¼ NE½ 2800   IR   0.200   1   REID, ORION     NW¼ NE½ 2800   IR   0.200   1   REID, ORION     NW¼ NE½ 2800   IR   0.200   1   REID, ORION     NW¼ NE½ 500   IR   3.700   1   REID, ORION     NW¼ NE½ 500   IR   0.200   1   REID, ORION	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 704	IR 0.500	1	
NW¼ NW¼ 708   IR   2.000   1   ELLIOTT, JAMES C	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 706	IR 1.000	1	*
NW¼ NW¼ 713 IR 1.000 1 HITE, DONALD E NW¼ NW¼ 714 IR 1.100 1 FRANKLIN, KENDALL NW¼ NW¼ 715 IR 0.650 1 GALL, RONALD W NW¼ NW¼ 716 IR 0.650 1 SHIELDS, JERALD C NW¼ NW¼ 801 IR 0.900 1 CENTRAL OREGON IRRIGATION SW¼ NW¼ 703 IR 0.600 1 CLIFF & LUCILLE THOMPSON TRUST SW¼ NW¼ 801 IR 0.900 1 CENTRAL OREGON IRRIGATION Section 8  NW¼ NW¼ 1000 IR 0.300 1 MEISNER, FRANCES FRANKLIN-ET NW¼ NW¼ 1100 IR 7.630 1 SETTLER'S CORNER, INC. Section 9  NE¼ NE¼ 3603 IR 0.200 1 KRUGER, CASEY A NE¼ NE¼ 401 IR 1.750 1 MOUNTAIN VISTA PARTNERS NW¼ NE¼ 2300 IR 0.100 1 REID, ORION NW¼ NE¼ 2400 IR 0.400 1 REID, ORION NW¼ NE¼ 2500 IR 0.500 1 REID, ORION NW¼ NE¼ 2600 IR 0.400 1 REID, ORION NW¼ NE¼ 2600 IR 0.400 1 REID, ORION NW¼ NE¼ 2600 IR 0.400 1 REID, ORION NW¼ NE¼ 2700 IR 0.400 1 REID, ORION NW¼ NE¼ 2800 IR 0.200 1 REID, ORION NW¼ NE¼ 2800 IR 0.200 1 REID, ORION NW¼ NE¼ 500 IR 0.200 1 REID, ORION NW¼ NE¼ 500 IR 3.700 1 REID, ORION NW¼ NE¼ 500 IR 3.700 1 REID, ORION NW¼ NE¼ 500 IR 0.200 1 REID, ORION	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 708	IR 2.000	1	· · · · · · · · · · · · · · · · · · ·
NW% NW% 714 IR 1.100 1 FRANKLIN, KENDALL NW% NW% 715 IR 0.650 1 GALL, RONALD W NW% NW% 716 IR 0.650 1 SHELDS, JERALD C NW% NW% 801 IR 0.900 1 CENTRAL OREGON IRRIGATION SW% NW% 703 IR 0.600 1 CLIFF & LUCILLE THOMPSON TRUST SW% NW% 801 IR 0.900 1 CENTRAL OREGON IRRIGATION SW6 NW% 1000 IR 0.900 1 CENTRAL OREGON IRRIGATION Section 8  NW% NW% 1000 IR 0.300 1 MEISNER, FRANCES FRANKLIN-ET NW% NW% 1100 IR 7.630 1 SETTLER'S CORNER, INC. Section 9  NE% NE% 3603 IR 0.200 1 KRUGER, CASEY A NE% NE% 401 IR 1.750 1 MOUNTAIN VISTA PARTNERS NW% NE% 2300 IR 0.100 1 REID, ORION NW% NE% 2400 IR 0.400 1 REID, ORION NW% NE% 2500 IR 0.500 1 REID, ORION NW% NE% 2500 IR 0.500 1 REID, ORION NW% NE% 2500 IR 0.500 1 REID, ORION NW% NE% 2500 IR 0.400 1 REID, ORION NW% NE% 2500 IR 0.200 1 REID, ORION NW% NE% 2500 IR 0.200 1 REID, ORION NW% NE% 5300 IR 0.200 1 REID, ORION NW% NE% 5300 IR 0.200 1 REID, ORION NW% NE% 5300 IR 0.200 1 REID, ORION NW% NE% 5400 IR 0.200 1 REID, ORION	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 711	IR 2.000	1	FIGGINS, ARTHUR
NW¼ NW¼   715   IR   0.650   1   GALL, RONALD W	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 713	IR 1.000	1	HITE, DONALD E
NW¼ NW¼   716   IR   0.650   1   SHIELDS, JERALD C	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 714	IR 1.100	1	FRANKLIN, KENDALL
NW¼ NW¼ 801 IR 0.900 1 CENTRAL OREGON IRRIGATION SW¼ NW¼ 703 IR 0.600 1 CLIFF & LUCILLE THOMPSON TRUST CENTRAL OREGON IRRIGATION SECTION 8  NW¼ NW¼ 1000 IR 0.300 1 MEISNER, FRANCES FRANKLIN-ET NW¼ NW¼ 1100 IR 7.630 1 SETTLER'S CORNER, INC. Section 9  NE¼ NE¼ 200 IR 1.000 1 LOVING, LEWEY L NE¼ NE¼ 3603 IR 0.200 1 KRUGER, CASEY A NE¼ NE¼ 401 IR 1.750 1 MOUNTAIN VISTA PARTNERS NW¼ NE¼ 2300 IR 0.100 1 REID, ORION NW¼ NE¼ 2400 IR 0.400 1 REID, ORION NW¼ NE¼ 2500 IR 0.500 1 REID, ORION NW¼ NE¼ 2500 IR 0.500 1 REID, ORION NW¼ NE¼ 2600 IR 0.400 1 REID, ORION NW¼ NE¼ 2700 IR 0.400 1 REID, ORION NW¼ NE¼ 2700 IR 0.400 1 REID, ORION NW¼ NE¼ 2800 IR 0.400 1 REID, ORION NW¼ NE¼ 2800 IR 0.400 1 REID, ORION NW¼ NE¼ 2800 IR 0.400 1 REID, ORION NW¼ NE¼ 2500 IR 0.400 1 REID, ORION NW¼ NE¼ 2500 IR 0.400 1 REID, ORION NW¼ NE¼ 500 IR 3.700 1 REID, ORION NW¼ NE¼ 500 IR 3.700 1 REID, ORION NW¼ NE¼ 500 PND 1.300 1 REID, ORION NW¼ NE¼ 500 PND 1.300 1 REID, ORION NW¼ NE¼ 5300 IR 0.200 1 REID, ORION NW¼ NE¼ 5400 IR 0.200 1 REID, ORION NW¼ NE¼ 5500 IR 0.200 1 REID, ORION NW¼ NE¼ 5500 IR 0.200 1 REID, ORION	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 715	IR 0.650	1	GALL, RONALD W
SW¼ NW¼         703         IR         0.600         1         CLIFF & LUCILLE THOMPSON TRUST           SW¼ NW¼         801         IR         0.900         1         CENTRAL OREGON IRRIGATION           NW¼ NW¼         1000         IR         0.300         1         MEISNER, FRANCES FRANKLIN-ET           NW¼ NW¼         1100         IR         7.630         1         SETTLER'S CORNER, INC.           Section 9           NE¼ NE¼         200         IR         1.000         1         LOVING, LEWEY L           NE¾ NE¾         3603         IR         0.200         1         KRUGER, CASEY A           NE¾ NE¾         3603         IR         0.200         1         KRUGER, CASEY A           NE¾ NE¾         401         IR         1.750         1         MOUNTAIN VISTA PARTNERS           NW¾ NE¾         2300         IR         0.100         1         REID, ORION           NW¾ NE¾         2400         IR         0.400         1         REID, ORION           NW¾ NE¾         2500         IR         0.400         1         REID, ORION           NW¾ NE¾         2800         IR         0.400         1         REID, ORION<	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 716	IR 0.650	1	SHIELDS, JERALD C
SW¼ NW¼         801         IR         0.900         1         CENTRAL OREGON IRRIGATION           NW¼ NW¼         1000         IR         0.300         1         MEISNER, FRANCES FRANKLIN-ET           NW¼ NW¼         1100         IR         7.630         1         SETTLER'S CORNER, INC.           Section 9           NE¼ NE¼         200         IR         1.000         1         LOVING, LEWEY L           NE½ NE¼         3603         IR         0.200         1         KRUGER, CASEY A           NE¾ NE¼         401         IR         1.750         1         MOUNTAIN VISTA PARTNERS           NW¼ NE¼         2300         IR         0.100         1         REID, ORION           NW¼ NE½         2400         IR         0.400         1         REID, ORION           NW¼ NE½         2500         IR         0.400         1         REID, ORION           NW¼ NE½         2700         IR         0.400         1         REID, ORION           NW¼ NE½         2800         IR         0.200         1         REID, ORION           NW¼ NE½         500         IR         3.700         1         REID, ORION           NW¼ NE½ <t< td=""><td>NW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> 801</td><td>IR 0.900</td><td>1</td><td>CENTRAL OREGON IRRIGATION</td></t<>	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 801	IR 0.900	1	CENTRAL OREGON IRRIGATION
NW¼ NW¼ 1000   IR   0.300   1   MEISNER, FRANCES FRANKLIN-ET   NW¼ NW¼ 1100   IR   7.630   1   SETTLER'S CORNER, INC.   Section 9      NE½ NE½ 200   IR   1.000   1   LOVING, LEWEY L   NE½ NE½ 3603   IR   0.200   1   KRUGER, CASEY A   NE½ NE½ 401   IR   1.750   1   MOUNTAIN VISTA PARTNERS   NW¼ NE½ 2300   IR   0.100   1   REID, ORION   NW¼ NE½ 2400   IR   0.400   1   REID, ORION   NW¼ NE½ 2500   IR   0.500   1   REID, ORION   NW¼ NE½ 2600   IR   0.400   1   REID, ORION   NW¼ NE½ 2700   IR   0.400   1   REID, ORION   NW¼ NE½ 2800   IR   0.400   1   REID, ORION   NW¼ NE½ 2800   IR   0.200   1   REID, ORION   NW¼ NE½ 500   IR   3.700   1   REID, ORION   NW¼ NE½ 500   IR   3.700   1   REID, ORION   NW¼ NE½ 500   PND   1.300   1   REID, ORION   NW¼ NE½ 5300   IR   0.200   1   REID, ORION   NW¼ NE½ 5400   IR   0.200   1   REID, ORION   NW¼ NE½ 5400   IR   0.200   1   REID, ORION   NW¼ NE½ 5500   IR   0.200   1   REID, ORION	SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 703	IR 0.600	1	CLIFF & LUCILLE THOMPSON TRUST
NW¼ NW¼ 1000 IR 0.300 1 MEISNER, FRANCES FRANKLIN-ET NW¼ NW¼ 1100 IR 7.630 1 SETTLER'S CORNER, INC.    NE¼ NE¼ 200 IR 1.000 1 LOVING, LEWEY L NE¼ NE¼ 3603 IR 0.200 1 KRUGER, CASEY A NE¼ NE¼ 401 IR 1.750 1 MOUNTAIN VISTA PARTNERS NW¼ NE¼ 2300 IR 0.100 1 REID, ORION NW¼ NE½ 2400 IR 0.400 1 REID, ORION NW¼ NE½ 2500 IR 0.500 1 REID, ORION NW¼ NE½ 2600 IR 0.400 1 REID, ORION NW¼ NE½ 2600 IR 0.400 1 REID, ORION NW¼ NE½ 2700 IR 0.400 1 REID, ORION NW¼ NE½ 2800 IR 0.200 1 REID, ORION NW¼ NE½ 500 PND 1.300 1 REID, ORION NW¼ NE½ 5300 IR 0.200 1 REID, ORION NW¼ NE½ 5300 IR 0.200 1 REID, ORION NW¼ NE½ 5400 IR 0.200 1 REID, ORION NW¼ NE½ 5500 IR 0.200 1 REID, ORION NW¼ NE½ 5500 IR 0.200 1 REID, ORION	SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> 801	IR 0.900	1	CENTRAL OREGON IRRIGATION
NW¼ NW¼ 1100         IR         7.630         1         SETTLER'S CORNER, INC.           NE¼ NE¼ 200         IR         1.000         1         LOVING, LEWEY L           NE¼ NE¼ 3603         IR         0.200         1         KRUGER, CASEY A           NE¼ NE¼ 401         IR         1.750         1         MOUNTAIN VISTA PARTNERS           NW¼ NE½ 2300         IR         0.100         1         REID, ORION           NW¼ NE½ 2400         IR         0.400         1         REID, ORION           NW¼ NE½ 2500         IR         0.500         1         REID, ORION           NW¼ NE½ 2600         IR         0.400         1         REID, ORION           NW¼ NE½ 2700         IR         0.400         1         REID, ORION           NW¼ NE½ 2800         IR         0.200         1         REID, ORION           NW¼ NE½ 500         IR         3.700         1         REID, ORION           NW¼ NE½ 5300         IR         0.200         1         REID, ORION           NW¼ NE½ 5400         IR         0.200         1         REID, ORION           NW¼ NE½ 5500         IR         0.200         1         REID, ORION           NW¼ NE½ 5400         IR <td></td> <td></td> <td>Section 8</td> <td></td>			Section 8	
NW¼ NW¼ 1100         IR         7.630         1         SETTLER'S CORNER, INC.           NE¼ NE¼ 200         IR         1.000         1         LOVING, LEWEY L           NE¼ NE¼ 3603         IR         0.200         1         KRUGER, CASEY A           NE¼ NE¼ 401         IR         1.750         1         MOUNTAIN VISTA PARTNERS           NW¼ NE½ 2300         IR         0.100         1         REID, ORION           NW¼ NE½ 2400         IR         0.400         1         REID, ORION           NW¼ NE½ 2500         IR         0.500         1         REID, ORION           NW¼ NE½ 2600         IR         0.400         1         REID, ORION           NW¼ NE½ 2700         IR         0.400         1         REID, ORION           NW¼ NE½ 2800         IR         0.200         1         REID, ORION           NW¼ NE½ 500         IR         3.700         1         REID, ORION           NW¼ NE½ 5300         IR         0.200         1         REID, ORION           NW¼ NE½ 5400         IR         0.200         1         REID, ORION           NW¼ NE½ 5500         IR         0.200         1         REID, ORION           NW¼ NE½ 5400         IR <td></td> <td></td> <td></td> <td></td>				
NE¼ NE¾ 200   IR   1.000   1   LOVING, LEWEY L	NW¼ NW¼ 1000	IR 0.300	1	MEISNER, FRANCES FRANKLIN-ET
NE¼ NE¼         200         IR         1.000         1         LOVING, LEWEY L           NE¼ NE¼         3603         IR         0.200         1         KRUGER, CASEY A           NE¾ NE¼         401         IR         1.750         1         MOUNTAIN VISTA PARTNERS           NW¼ NE¼         2300         IR         0.100         1         REID, ORION           NW¼ NE½         2400         IR         0.400         1         REID, ORION           NW¼ NE½         2500         IR         0.500         1         REID, ORION           NW¼ NE½         2600         IR         0.400         1         REID, ORION           NW¼ NE½         2700         IR         0.400         1         REID, ORION           NW¼ NE½         2800         IR         0.200         1         REID, ORION           NW¼ NE½         500         IR         3.700         1         REID, ORION           NW¼ NE½         5300         IR         0.200         1         REID, ORION           NW½ NE½         5400         IR         0.200         1         REID, ORION           NW½ NE½         5400         IR         0.200         1         REID, ORION </td <td>NW¼ NW¼ 1100</td> <td>IR 7.630</td> <td>1</td> <td>SETTLER'S CORNER, INC.</td>	NW¼ NW¼ 1100	IR 7.630	1	SETTLER'S CORNER, INC.
NE¼ NE¾       3603       IR       0.200       1       KRUGER, CASEY A         NE½ NE¾       401       IR       1.750       1       MOUNTAIN VISTA PARTNERS         NW¼ NE¾       2300       IR       0.100       1       REID, ORION         NW¼ NE¾       2400       IR       0.400       1       REID, ORION         NW¼ NE¾       2600       IR       0.400       1       REID, ORION         NW¼ NE¾       2700       IR       0.400       1       REID, ORION         NW¼ NE¾       2800       IR       0.200       1       REID, ORION         NW¼ NE¾       500       IR       3.700       1       REID, ORION         NW¼ NE¾       500       PND       1.300       1       REID, ORION         NW¼ NE¾       5300       IR       0.200       1       REID, ORION         NW¼ NE¾       5400       IR       0.200       1       REID, ORION         NW¼ NE¾       5400       IR       0.200       1       REID, ORION         NW¼ NE¾       5500       IR       0.200       1       REID, ORION			Section 9	
NE¼ NE¾       3603       IR       0.200       1       KRUGER, CASEY A         NE½ NE¾       401       IR       1.750       1       MOUNTAIN VISTA PARTNERS         NW¼ NE¾       2300       IR       0.100       1       REID, ORION         NW¼ NE¾       2400       IR       0.400       1       REID, ORION         NW¼ NE¾       2600       IR       0.400       1       REID, ORION         NW¼ NE¾       2700       IR       0.400       1       REID, ORION         NW¼ NE¾       2800       IR       0.200       1       REID, ORION         NW¼ NE¾       500       IR       3.700       1       REID, ORION         NW¼ NE¾       500       PND       1.300       1       REID, ORION         NW¼ NE¾       5300       IR       0.200       1       REID, ORION         NW¼ NE¾       5400       IR       0.200       1       REID, ORION         NW¼ NE¾       5400       IR       0.200       1       REID, ORION         NW¼ NE¾       5500       IR       0.200       1       REID, ORION				
NE¼ NE¼       401       IR       1.750       1       MOUNTAIN VISTA PARTNERS         NW¼ NE¼       2300       IR       0.100       1       REID, ORION         NW¼ NE¼       2400       IR       0.400       1       REID, ORION         NW¼ NE¼       2500       IR       0.400       1       REID, ORION         NW¼ NE¼       2700       IR       0.400       1       REID, ORION         NW¼ NE¼       2800       IR       0.200       1       REID, ORION         NW¼ NE¼       500       IR       3.700       1       REID, ORION         NW¼ NE¼       500       PND       1.300       1       REID, ORION         NW¼ NE¼       5300       IR       0.200       1       REID, ORION         NW¼ NE¼       5400       IR       0.200       1       REID, ORION         NW¼ NE¼       5400       IR       0.200       1       REID, ORION         NW¼ NE¼       5500       IR       0.200       1       REID, ORION				*
NW¼ NE¼       2300       IR       0.100       1       REID, ORION         NW¼ NE½       2400       IR       0.400       1       REID, ORION         NW¼ NE½       2500       IR       0.500       1       REID, ORION         NW¼ NE½       2600       IR       0.400       1       REID, ORION         NW¼ NE½       2700       IR       0.400       1       REID, ORION         NW¼ NE½       2800       IR       0.200       1       REID, ORION         NW¼ NE½       500       IR       3.700       1       REID, ORION         NW¼ NE½       500       PND       1.300       1       REID, ORION         NW¼ NE½       5300       IR       0.200       1       REID, ORION         NW¼ NE½       5400       IR       0.200       1       REID, ORION         NW¼ NE½       5500       IR       0.200       1       REID, ORION				ŕ
NW¼ NE¾ 2400       IR       0.400       1       REID, ORION         NW¼ NE¾ 2500       IR       0.500       1       REID, ORION         NW¼ NE¾ 2600       IR       0.400       1       REID, ORION         NW¼ NE¾ 2700       IR       0.400       1       REID, ORION         NW¼ NE¾ 2800       IR       0.200       1       REID, ORION         NW¼ NE¾ 500       IR       3.700       1       REID, ORION         NW¼ NE¾ 500       PND       1.300       1       REID, ORION         NW¼ NE¾ 5300       IR       0.200       1       REID, ORION         NW¼ NE¾ 5400       IR       0.200       1       REID, ORION         NW¼ NE¾ 5500       IR       0.200       1       REID, ORION				
NW¼ NE¼       2500       IR       0.500       1       REID, ORION         NW¼ NE¼       2600       IR       0.400       1       REID, ORION         NW¼ NE¼       2700       IR       0.400       1       REID, ORION         NW¼ NE¼       2800       IR       0.200       1       REID, ORION         NW¼ NE¼       500       IR       3.700       1       REID, ORION         NW¼ NE¼       500       PND       1.300       1       REID, ORION         NW¼ NE¼       5300       IR       0.200       1       REID, ORION         NW¼ NE¼       5400       IR       0.200       1       REID, ORION         NW¼ NE¼       5500       IR       0.200       1       REID, ORION				· ·
NW¼ NE¾ 2600       IR       0.400       1       REID, ORION         NW¼ NE¾ 2700       IR       0.400       1       REID, ORION         NW¼ NE¾ 2800       IR       0.200       1       REID, ORION         NW¼ NE¾ 500       IR       3.700       1       REID, ORION         NW¼ NE¾ 500       PND       1.300       1       REID, ORION         NW¼ NE¾ 5300       IR       0.200       1       REID, ORION         NW¼ NE¾ 5400       IR       0.200       1       REID, ORION         NW¼ NE¾ 5500       IR       0.200       1       REID, ORION				· ·
NW¼ NE¾ 2700       IR       0.400       1       REID, ORION         NW¼ NE¾ 2800       IR       0.200       1       REID, ORION         NW¼ NE¾ 500       IR       3.700       1       REID, ORION         NW¼ NE¾ 500       PND       1.300       1       REID, ORION         NW¼ NE¾ 5300       IR       0.200       1       REID, ORION         NW¼ NE¾ 5400       IR       0.200       1       REID, ORION         NW¼ NE¾ 5500       IR       0.200       1       REID, ORION				, and the second
NW¼ NE¾ 2800       IR       0.200       1       REID, ORION         NW¼ NE¾ 500       IR       3.700       1       REID, ORION         NW¼ NE¾ 500       PND       1.300       1       REID, ORION         NW¼ NE¾ 5300       IR       0.200       1       REID, ORION         NW¼ NE¾ 5400       IR       0.200       1       REID, ORION         NW¼ NE¾ 5500       IR       0.200       1       REID, ORION				ŕ
NW¼ NE¾ 500       IR       3.700       1       REID, ORION         NW¼ NE¾ 500       PND       1.300       1       REID, ORION         NW¼ NE¾ 5300       IR       0.200       1       REID, ORION         NW¼ NE¾ 5400       IR       0.200       1       REID, ORION         NW¼ NE¾ 5500       IR       0.200       1       REID, ORION         NW¼ NE¾ 5500       IR       0.200       1       REID, ORION				
NW¼ NE¾ 500       PND       1.300       1       REID, ORION         NW¼ NE¾ 5300       IR       0.200       1       REID, ORION         NW¼ NE¾ 5400       IR       0.200       1       REID, ORION         NW¼ NE¾ 5500       IR       0.200       1       REID, ORION				*
NW¼ NE¾ 5300       IR       0.200       1       REID, ORION         NW¼ NE¾ 5400       IR       0.200       1       REID, ORION         NW¼ NE¾ 5500       IR       0.200       1       REID, ORION				•
NW¼ NE¼ 5400 IR 0.200 1 REID, ORION NW¼ NE¼ 5500 IR 0.200 1 REID, ORION				· ·
NW¼ NE¼ 5500 IR 0.200 1 REID, ORION				-
, and the second				· ·
HB3111.bwb Page 98 of 105 76358	NW¼ NE¼ 5500	IR 0.200	1	REID, ORION
HB3111.bwb Page 98 of 105 76358			_	
	HB3111.bwb		Page 98 of 105	76358

	SW1/4 NE1/4	1600	IR	0.200	1	REID, ORION
	SW¼ NE¼	1700	IR	0.300	1	REID, ORION
	SW¼ NE¼	1800	IR	0.200	1	REID, ORION
	SW1/4 NE1/4	1900	IR	0.200	1	REID, ORION
	SW1/4 NE1/4	2000	IR	0.200	1	REID, ORION
	SW¼ NE¼	2100	IR	0.300	1	REID, ORION
	SW1/4 NE1/4	2300	IR	0.200	1	REID, ORION
	SW1/4 NE1/4	2400	IR	0.100	1	REID, ORION
	SW¼ NE¼	2500	IR	0.200	1	REID, ORION
	SW¼ NE¼	2600	IR	0.200	1	REID, ORION
	SW¼ NE¼	2700	IR	0.100	1	REID, ORION
	SW¼ NE¼	3200	IR	0.100	1	REID, ORION
	SW1/4 NE1/4	3300	IR	0.100	1	REID, ORION
	SW1/4 NE1/4	3400	IR	0.100	1	REID, ORION
	SW14 NE14	3500	IR	0.050	1	REID, ORION
	SW1/4 NE1/4	3600	IR	0.030	1	REID, ORION
	SW1/4 NE1/4	3700	IR	0.070		
	SW14 NE14	500	IR	15.700	1	REID, ORION
					1	REID, ORION
	SW¼ NE¼	500	PND	1.600	1	REID, ORION
	SW¼ NE¼	600	IR	0.600	1	REID, ORION
	SW¼ NE¼	700	IR	0.200	1	REID, ORION
	SW¼ NE¼	800	IR	0.100	1	REID, ORION
	SE¼ NE¼	401	IR ID	3.350	1	MOUNTAIN VISTA PARTNERS
	SE¼ NE¼	404	IR	4.900	1	MOUNTAIN VISTA PARTNERS
	NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR IR	0.100	1	REID, ORION
	NE¼ NW¼	6500	IR	0.100	1	REID, ORION
	NE¼ NW¼	6600	IR	0.100	1	REID, ORION
	NE¼ NW¼	6700	IR	0.100	1	REID, ORION
	NE¼ NW¼	6800	IR	0.100	1	REID, ORION
	SE1/4 SW1/4	300	IR	1.000	1	ARATA, MICHELLE E
	SE1/4 SW1/4	400	IR	0.500	1	DELORE, GARY
	SE1/4 SW1/4	500	IR	0.350	1	CHAFFIN, GARY A
	NW¼ SE¼	6200	IR	1.700	1	SHOLES, LEONARD
	NW¼ SE¼	6300	IR	0.400	1	SHOLES, LEONARD
	SW1/4 SE1/4	6200	IR	0.400	1	SHOLES, LEONARD
					Section 10	
	NW1/4 NW1/4	0	IND	3.000	1	DESCHUTES COUNTY
	NW1/4 NW1/4	0	IND	22.350	1	CENTRAL OREGON IRRIGATION
					Section 11	
				Township	18 South, Range 1	2 East, W.M.
	SW1/4 SW1/4	200	IR	17.000	1	GOODRICH, LEWIS SCOTT
					Section 1	•
	NE1/4 SW1/4	300	IR	9.000	1	WOHLERS, RUSSELL F
	NW1/4 SW1/4	300	IR	11.200	1	WOHLERS, RUSSELL F
	SW1/4 SW1/4	300	IR	31.000	1	WOHLERS, RUSSELL F
	SE1/4 SW1/4	300	IR	28.800	1	WOHLERS, RUSSELL F
	NE¼ SE¼	100	IR	2.500	1	COVEY, BURLEY
	NE¼ SE¼	101	IR	2.000	1	COVEY, BURLEY
	NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	102	IR	3.000	1	ERICKSEN, ROBERT W
	NW1/4 SE1/4	200	IR	2.500	1	SAWYER, DOUG
	NW1/4 SE1/4	201	IR	1.000	1	SAWYER, DOUG
	SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	500	IR	1.300	1	PRICE, FRANK
	SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	500	IR	2.200	1	PRICE, FRANK
	3E/4 3E/4	500	Т	2.200	Section 2	I MCL, FRAINK
					Section 2	
	NE¼ NE¼	100	IR	17.000	1	MORRIS-READE, STEPHEN A
	NE74 NE74 NW1/4 NE1/4	100	IR	17.000	1	GARDNER, JERALD
	13 88 /4 INE/4	101	Щ	15.500	1	GARDINER, JERALD
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NW¼ NE¼	200	IR	6.500	1	SHERIDAN, WALTER D
SW¼ NE¼	101	IR	7.000	1	GARDNER, JERALD
SW¼ NE¼	300	IR	5.750	1	LARSON, DALE
SW¼ NE¼	400	IR	1.500	1	PROSCH, ELROY
SW¼ NE¼	500	IR	4.000	1	FINLEY, GARRY A &
SW¼ NE¼	501	IR	9.500	1	POLLY, RANDALL D
SE¼ NE¼	600	IR	1.600	1	CENTRAL OREGON IRRIGATION
NE¼ NW¼	1600	IR	1.000	1	FOSTER, DICK
NE1/4 NW1/4	1601	IR	2.000	1	MARSDEN, JOHN H
NE1/4 NW1/4	1602	IR	1.000	1	DUNAGAN, JON K
NE1/4 NW1/4		IR	1.000	1	TENBRINK, ROBERT E JR
	1500	IR	2.000	1	WILSON, JAMES M
	1501	IR	0.500	1	SCHULTZ, ROGER L
	1502	IR	0.220	1	MCCLUNG, THOMAS J
NW1/4 SW1/4		IR	3.000	1	ROBINSON, JAMES
NW1/4 SW1/4		IR	11.000	1	COCHRAN, WILLIAM
NW1/4 SW1/4		IR	4.000	1	LARWIN, DANIEL
NW1/4 SW1/4		IR	5.000	1	ARNOLD, G STEPHEN
	1000	IR	7.600	1	CENTRAL OREGON IRRIGATION
	1000	IR	0.800	1	CENTRAL OREGON IRRIGATION
	1502	IR	0.380	1	
NE¼ SE¼	601	IR	3.500	1	MCCLUNG, THOMAS J
NE¼ SE¼	603	IR	3.500	1	DAVIS, LARRY G DAVIS, CLINTON B
NE¼ SE¼	604	IR	1.500	1	
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	100	IR	3.400		DAVIS, JOE
SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	100	IR IR	4.400	1 1	KARAMI, HOSSAIN
SE/4 SE/4	100	IK	4.400	Section 3	KARAMI, HOSSAIN
				Section 3	
NE¼ NE¼	100	IR	10.200	1	FENNELL, HORACE
NE¼ NE¼	100	IR	0.200	1	MORRISON, KYLE T
NE¼ NE¼	110	IR	1.600		
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	101	IR	8.000	1 1	FENNELL, HORACE
NW1/4 NE1/4	101	IR	6.000	1	TURNER, TED R
	102	IR	7.000		KLINK, GARY
NW¼ NE¼ NW¼ NE¼	103		9.400	1	LEE, KEITH
SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>		IR IR		1	MARKS, THEODORE J
	105		11.700	1	WARD, KIM D & CO.
SW¼ NE¼	107	IR ID	17.000	1	WARD, KIM D & CO.
SE¼ NE¼	100	IR ID	0.200	1	FENNELL, HORACE
SE¼ NE¼	106	IR ID	2.900	1	FENNELL, HORACE
SE'4 NE'4	108	IR ID	16.300	1	WARD, KIM D & CO.
SE¼ NE¼	109	IR	6.800	1	MORRISON, KYLE T
SE¼ NE¼	110	IR	5.400	1	FENNELL, HORACE
NE¼ NW¼	900	IR.	23.100	1	WELBOURN, JAMES
NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	900	IR	18.100	1	WELBOURN, JAMES
SW1/4 NW1/4	801	IR	0.780	1	COBB, DAVID & LINK, LINDA C
SE¼ NW¼	200	IR	19.600	1	CONNER, PATRICK L, M.D.
SE¼ NW¼	600	IR	2.000	1	KEMNITZ, ROBERT
SE¼ NW¼	606	IR	0.160	1	VAN OSDEL, RICHARD
SE¼ NW¼	700	IR	2.460	1	VAN OSDEL, RICHARD
SE1/4 NW1/4	702	IR	2.200	1	COBB, DAVID & LINK, LINDA C
NE¼ SW¼	500	IR	4.730	1	THE EDITH WILSON CRUISE TRUST
NE¼ SW¼	600	IR	2.100	1	KEMNITZ, ROBERT
NE¼ SW¼	600	PND	0.600	1	KEMNITZ, ROBERT
NE¼ SW¼	601	IR	1.800	1	STONEMAN, SUSAN E
NE¼ SW¼	602	IR	3.500	1	HILL, JAMES R
NE1/4 SW1/4	603	IR	3.670	1	HILL, JAMES R
NE¼ SW¼	604	IR	2.000	1	STOCKTON, JOHN &
NE¼ SW¼	605	IR	2.000	1	ROLLINS, RONALD
NE¼ SW¼	606	IR	0.680	1	VAN OSDEL, RICHARD
NE1/4 SW1/4	700	IR	2.500	1	VAN OSDEL, RICHARD
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	NE¼ SW¼	701	IR	1.000	1	CAMPBELL, LESLIE R
	NE1/4 SW1/4	702	IR	0.900	Î	COBB, DAVID & LINK, LINDA C
	NE1/4 SW1/4	703	IR	1.500	î	VEHLEN, ARTHUR H
	NE1/4 SW1/4	704	IR	2.120	1	STONEMAN, SUSAN E
	SE1/4 SW1/4	400	IR	10.000	1	HOAR, ROBERT K
	SE1/4 SW1/4	407	IR	3.000	1	HOAR, ROBERT K
	SE1/4 SW1/4	408	IR	2.000	1	,
	SW1/4 SE1/4	401	IR	2.000		ACUFF, LARRY L JR
	SW1/4 SE1/4	402	IR	2.000	1	EDWARDS, ALAN ESTATE
	SW1/4 SE1/4	405	IR		1	EDWARDS, ALAN ESTATE
	SW14 SE14	406		4.350	1	WOLFINGER, SCOTT DIXON
	3 W /4 SE/4	400	IR	5.150	1	EDWARDS, ALAN ESTATE
					Section 4	
	NIEL/ NIEL/	100	ID	12 000	•	WELD OVER 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	NE¼ NE¼	100	IR	13.800	1	WELBOURN, JAMES
	NW¼ NE¼	400	IR	9.200	1	MCCANDLISH, CURTIS P
	SW¼ NE¼	1300	IR	10.600	1	JOHNSON, ROBERT B
	SW¼ NE¼	300	IR	8.000	1	JOHNSON, ROBERT B
	SW¼ NE¼	400	IR	1.000	1	MCCANDLISH, CURTIS P
	NE¼ NW¼	600	IR	10.500	1	GRAY, DOUGLAS K
	NW¼ NW¼	800	IR	12.900	1	FASSETT, MICHAEL
	NW¼ NW¼	801	IR	15.100	1	FINLEY, RICHARD G
	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	802	IR	2.000	1	FASSETT, MICHAEL
	SW1/4 NW1/4	900	IR	6.000	1	RAGAN, WILLIAM V JR
	SW¼ NW¼	901	IR	17.200	1	ROATS, WILLIAM K
	SE¼ NW¼	301	IR	6.000	1	GUZMAN, RENE
	SE¼ NW¼	600	IR	1.500	1	GRAY, DOUGLAS K
	SE¼ NW¼	602	IR	10.500	1	SHANNON, ROBERT L
	SE¼ NW¼	700	IR	10.000	i	LEISZ, BRUCE K
	NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	700	IR	27.600	î	LEISZ, BRUCE K
	NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	701	IR	0.100	1	LEISZ, BRUCE K
	NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	3.000	1	CARICO, CELESTE
	NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	6.900	1	DASH. BARRETT C
	NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>		IR	7.000		
					1	ENDICOTT, CHARLES N
		1100	IR	2.100	1	DASH. BARRETT C
		1103	IR	1.500	1	PAGE FAMILY TRUST
	SE¼ SW¼	700	IR	0.400	1	LEISZ, BRUCE K
	SE¼ SW¼	701	IR	10.900	1	LEISZ, BRUCE K
	SE¼ SW¼	702	IR	11.000	1	BANEY, CURTIS A
	NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1300	IR	4.900	1	JOHNSON, ROBERT B
	NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1400	IR	8.700	1	GREENHOE, DUANE F
	NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1500	IR	3.150	1	PETERS, MARK W
	SW1/4 SE1/4	1500	IR	6.700	1	PETERS, MARK W
	SW¼ SE¼	1600	IR	7.500	1	YOUNG, GEORGE W
					Section 5	
	NE¼ NE¼	100	IR	5.300	1	TUMA, BEN
	NE¼ NE¼	101	IR	10.700	1	TUMA, BEN
	NE¼ NE¼	200	IR	2.000	1	BELEW, JOHN M
	NW¼ NE¼	300	IR	3.000	1	BOYLE, ORVAL
	NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub>	400	IR	6.000	1	FRAZIER, EARL
	SW¼ NE¼	1300	IR	29.000	1	CROSS, HOWARD
	SE¼ NE¼	1400	IR	2.000	1	PEACOCK, HOWARD
	NE¼ NW¼	500	IR	18.000	1	SCHILLING, JOHN
	NE¼ NW¼	600	IR	6.000	î	HUNT, G D
	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	4.000	î	BRUSCA, RANDOLPH ROBERT ET AL
	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	8.300	1	HORTON, DAVID E
	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	0.700	1	HORTON, DAVID E
	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>		IR	14.000		HADLEY, LORETTA
	NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>			1.200	1	
			IR ID		1	COURT, MARTY
	SW1/4 NW1/4	1001	IR	8.100	1	BRUSCA, RANDOLPH ROBERT ET AL
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		_				
SW	'¼ NW¼	1002	IR	2.300	1	LICITRA, TONY
	4 NW <sup>1</sup> / <sub>4</sub>	1002	IR	13.700	1	LICITRA, TONY LICITRA, TONY
	1/4 SW1/4	1002	IR	1.400	1	LICITRA, TONY
2.2	74 0 11 74	1002	110	1.400	Section 6	Elema, fold
					Section 0	
NW	/¼ NE¼	200	IR	2.700	1	ELSEY, ANITA
NE	1/4 NW1/4	300	IR	3.300	1	GIBSON, CYNTHIA I
					Section 8	
NE	¼ NE¼	100	IR	0.400	1	SHERIDAN, DOUGLAS J
SW	1/4 NE1/4	100	IR	3.700	1	SHERIDAN, DOUGLAS J
SE	4 NE1/4	100	IR	15.900	1	SHERIDAN, DOUGLAS J
NE	1/4 NW1/4	601	IR	7.000	1	EICHER, JEFFREY L
					Section 9	
	1/4 NE1/4	100	IR	16.300	1	KARAMI, HOSSAIN
	¼ NE¼	102	IR	0.300	1	LEE, BILL
	1¼ NE¼	100	IR	9.500	1	KARAMI, HOSSAIN
	1¼ NE¼	101	IR	9.800	1	PAULLIN, KENNETH M
	11/4 NE1/4	301	IR	0.900	1	STUCKI, HANS R
	14 NE14	302	IR	0.100	1	STUCKI, HANS R
	1/4 NE1/4	101	IR	0.200	1	PAULLIN, KENNETH M
	4 NE <sup>1</sup> / <sub>4</sub>	100	IR	9.700	1	KARAMI, HOSSAIN
	4 NE <sup>1</sup> / <sub>4</sub>	102	IR IB	8.700	1	LEE, BILL
	1/4 NW1/4	300	IR ID	3.500	1	MUHLEMAN, CHRIS D
	1/4 NW 1/4 1/4 NW 1/4	301 302	IR IR	2.100 5.400	1 1	STUCKI, HANS R
	/4 NW <sup>1</sup> /4	400	IR	10.000	1	STUCKI, HANS R GRIBSKOV, CRAIG
	/4 IN W /4 /1/4 NW1/4	501	IR	4.000	1	SHERIDAN, DOUGLAS J
	1/4 NW /4	600	IR	6.100	1	NEILL, DONALD T/KAISER, DALE A
	1/4 NW1/4	700	IR	3.900	1	NEILL, DONALD T/KAISER, DALE A
	14 NW1/4	800	IR	8.700	1	KENNEL, DEL
	4 NW <sup>1</sup> / <sub>4</sub>	1000	IR	1.400	1	KENNEL, DEL
	4 NW1/4	800	IR	12.900	1	KENNEL, DEL
	4 NW1/4	900	IR	12.000	1	BURNS, GEORGE
	1/4 SE1/4	200	IR	31.000	1	KERRON, DONALD M
NW	71/4 SE1/4	200	IR	39.000	1	KERRON, DONALD M
					Section 10	
NE	¼ NE¼	100	IR	15.000	1	HICKS, ZELLNAR
NE	¼ NE¼	200	IR	15.000	1	GROGAN, LANIE
NW	1¼ NE¼	300	IR	20.000	1	KARAMI, HOSSAIN
	'¼ NE¼	400	IR	30.800	1	KARAMI, HOSSAIN
	4 NE1/4	400	IR	28.800	1	KARAMI, HOSSAIN
	/¼ NW¼		IR	3.500	1	KARAMI, HOSSAIN
	1/4 NW1/4	400	IR	37.300	1	KARAMI, HOSSAIN
	4 NW <sup>1</sup> / <sub>4</sub>	400	IR	36.300	1	KARAMI, HOSSAIN
	1/4 SW1/4	600	IR	14.100	1	CRONEN, DARYL C
	1/4 SW1/4	700	IR	15.670	1	CRONEN, DARYL C
	1/4 SW1/4	701	IR	0.800	1	HOLLIBAUGH, QUINN
	11/4 SW1/4 11/4 SW1/4		IR IB	2.000	1	KERRON, DONALD M
	11/4 SW 1/4	700 701	IR IR	2.000 3.500	1	CRONEN, DARYL C
	11/4 SW 1/4	701	IR	3.480	1 1	HOLLIBAUGH, QUINN CRONEN, DARYL C
14 44	74 S W 74	702	ш	J. <b>70</b> U	Section 11	CRONEIN, DARTE C
					Section 11	
NE	¼ NE¼	100	IR	32.800	1	ROBINSON, WILLIAM
	/¼ NE¼	200	IR	9.700	1	CENTRAL OREGON IRRIGATION
	1/4 NE1/4	100	IR	3.600	ĺ	ROBINSON, WILLIAM
	1/4 NE1/4	101	IR	12.000	1	MARSDEN, JOHN H JR
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SE¼ NE¼	100	IR	6.800	1	ROBINSON, WILLIAM	
SE¼ NE¼	101	IR	11.000	1	MARSDEN, JOHN H JR	
NE¼ NW¼	301	IR	1.300	1	ADAMS, GARY L	
NE¼ NW¼	302	IR	18.200	1	ADAMS, GARY L	
NE¼ NW¼	303	IR	1.200	1	BRAATZ, RONALD W	
NE¼ NW¼	401	IR	0.800	1	BRAATZ, RONALD W	
NW¼ NW¼	300	IR	3.000	1	MARTIN, THOM	
NW¼ NW¼	303	IR	19.700	1	BRAATZ, RONALD W	
NW¼ NW¼	304	IR	3.000	1	WILHELM, JAMES H	
NW¼ NW¼	401	IR	1.800	1	BRAATZ, RONALD W	
SW1/4 NW1/4	500	IR	29.000	1	EVERITT, LEON	
SE¼ NW¼	501	IR	22.500	1	GOULD, RAY C	
SE¼ NW¼	502	IR	3.500	1	GOULD, RAY C	
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	601	IR	4.000	1	NORMAN, REBECCA J	
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	602	IR	1.500	1	FINCK, STEVEN	}
NE1/4 SE1/4	700	IR	29.000	1	WILLIAMSEN, KENNETH	
NW¼ SE¼	702	IR	31.750	1	HOWE-MERLIN, LINDA	
SW1/4 SE1/4	701	IR	0.300	1	WILLIAMSEN, KENNETH	
SW¼ SE¼	702	IR	1.250	1	HOWE-MERLIN, LINDA	
SW1/4 SE1/4	703	IR	23.000	1	KING, ROBERT H	
SE1/4 SE1/4	700	IR	1.200	1	WILLIAMSEN, KENNETH	
SE¼ SE¼	701	IR	13.500	1	WILLIAMSEN, KENNETH	
				Section 12	,	
			Township 18	South, Range 13	3 East, W.M.	
NW¼ NE¼	400	IR	16.700	1	GERHARDT, WILLIAM C	
SW1/4 NE1/4	300	IR	14.600	1	GERHARDT, WILLIAM C	
SW1/4 NE1/4	400	IR	8.000	1	GERHARDT, WILLIAM C	
SE¼ NE¼	200	IR	19.700	1	GERHARDT, WILLIAM C	
SE¼ NE¼	300	IR	0.100	1	GERHARDT, WILLIAM C	
NW¼ NW¼	500	IR	8.400	1	ROBINSON, WILLIAM	
SW1/4 NW1/4	500	IR	3.400	1	ROBINSON, WILLIAM	
NE14 SW1/4	300	IR	7.700	1	GERHARDT, WILLIAM C	
NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub>	600	IR	2.400	1	BRADETICH, JERI LEE	
NE1/4 SE1/4	200	IR	5.300	1	GERHARDT, WILLIAM C	
NE1/4 SE1/4	300	IR	0.300	1	GERHARDT, WILLIAM C	
NE1/4 SE1/4	900	IR	12.000	1	MORIARTY, LEE ET AL	J
NE1/4 SE1/4	901	IR	16.500	1	MORIARTY, LEE ET AL	
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	300	IR	5.900	1	GERHARDT, WILLIAM C	
NW¼ SE¼	800	IR	15.700	1	MORIARTY, LEE ET AL	
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	900	IR	0.400	1	MORIARTY, LEE ET AL	
SW1/4 SE1/4	800	IR	4.000	1	MORIARTY, LEE ET AL	
SW1/4 SE1/4	900	IR	11.300	1	MORIARTY, LEE ET AL	
SE¼ SE¼	900	IR	13.500	1	MORIARTY, LEE ET AL	
SE¼ SE¼	901	IR	17.200	1	MAESNER, GERALD	
				Section 7	,	
SE¼ NE¼	1201	IR	11.000	1	BOUCHE, PARRIS	
NE1/4 SW1/4	1001	IR	27.000	1	MCBRIDE, HAROLD C	
NW1/4 SW1/4	903	IR	25.190	1	BOULET, CURTIS REVOCA	BLE TRUST
SW1/4 SW1/4	904	IR	20.910	1	WETHERELL, RICHARD	
SE1/4 SW1/4	1000	IR	13.500	1	BUSSARD, RONALD R	
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1100	IR	37.000	1	KNIGHT, GORDON	
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1101	IR	15.300	1	PENLAND, STANLEY K	
NW1/4 SE1/4	1105	IR	15.000	1	WINCKLER, CHARLES W	
SW1/4 SE1/4	1102	IR	14.000	1	PHILLIPS, MARK	
SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	1103	IR	3.000	1	FORTIN, RICHARD P	
SW1/4 SE1/4	1104	IR	5.500	1	PHILLIPS, MARK	1
SW1/4 SE1/4	1105	IR	6.000	1	WINCKLER, CHARLES W	
SE1/4 SE1/4	1100	IR	27.000	1	KNIGHT, GORDON	
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SE¼ SE¼	1102	IR	8.500	1 Section 8	PHILLIPS, MARK
SE¼ NW¼ NW¼ SW¼ SW¼ SW¼	301 301 1202 301 1202 1200 1202	IR IR IR IR IR IR	7.500 1.600 27.300 7.900 37.200 16.400 19.800	1 1 1 1 1 1 Section 9	CLARNO CATTLE COMPANY CLARNO, BRADLEY R CLARNO CATTLE COMPANY
NW¼ NW¼ 1	1200	IR	10.000	1 Section 16	CLARNO, BRADLEY R
NE¼ NE¼	100	PND	2.000 Township 18	1 Section 18 South, Range 1	U.S. BLM 4 East, W.M.

A description of the place of use for which proof was made pursuant to ORS 540.510 to 540.530 and to which that portion of the right is appurtenant is as follows:

NW¼ NE¼	200	IR	2.000	9	PARR REVOCABLE TRUST					
NW1/4 NE1/4	301	IR	2.000	9	JACOBS, ALBERT					
				Section 24	,					
Township 17 South, Range 11 East, W.M.										
SW1/4 SW1/4	500	IR	0.180	9	LAMARCHE, H.H. ET UX					
SW1/4 SW1/4	2500	IR	0.300	9	LAURION, R.B. & B.J., CO-TRUSTEES					
SW1/4 SW1/4	2700	IR	0.330	9	WORTHINGTON, J. & DIXON, S.					
SW1/4 SW1/4	2900	IR	0.580	9	HEMMERQUIST, J.C. & K.C.					
SW1/4 SW1/4	3000	IR	0.270	9	MARSH, DAVID K.					
SW¼ SW¼	3100	IR	0.470	9	KING, LARRY A.					
SW1/4 SW1/4	3200	IR	0.540	9	CREASEY, DOUGLAS K. & KAREN L.					
SW1/4 SW1/4	3400	IR	0.050	9	RIMROCK ASSOC. OF BEND, INC.					
SW1/4 SW1/4	4100	IR	0.120	9	RIMROCK ASSOC. OF BEND, INC.					
SE1/4 SW1/4	100	IR	0.120	9	RONNING, E.R. & SURGENOR, D.					
SE1/4 SW1/4	2500	IR	0.200	9	LAURION, R.B. & B.J., CO-TRUSTEES					
SE1/4 SW1/4	3300	IR	0.070	9	RIMROCK ASSOC. OF BEND, INC.					
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NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub>	800	IR	0.330	9	KRUSE, LEONE J. TRUSTEE					
NE¼ NW¼	900	IR	0.240	9	HANSON, LLOYD E. & ROSELL M.					
NE¼ NW¼	1000	IR	0.200	9	HEBERLEIN, JAMES E. & SUSAN L.					
NE¼ NW¼	1700	IR	0.150	9	RENWICK, BEVERLEY A.					

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NE¼ NW¼	1800	IR	0.030	9	SHORT, WALTER JOHN
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NE¼ NW¼	2400	IR	0.140	9	BRAINERD, HAROLD G. ET UX
NE¼ NW¼	2500	IR	0.330	9	BIANUCCI, JOHN ET AL
NE¼ NW¼	2700	IR	0.190	9	CURL, ANITA G.
NE¼ NW¼	2900	IR	0.120	9	THOMSON, G.J. & OTTENFELD, D.
NE¼ NW¼	3000	IR	0.200	9	BOLLMAN, A.W., TRUSTEE
NE¼ NW¼	3101	IR	0.200	9	DE KAT, GARY H. & VIRGINIA A.
NE¼ NW¼	3300	IR	1.710	9	RIMROCK ASSOC. OF BEND, INC.
NE¼ NW¼	3800	IR	1.170	9	RIMROCK ASSOC. OF BEND, INC.
NW¼ NW¼	500	IR	0.350	9	LAMARCHE, H.J. ET UX
NW¼ NW¼	600	IR	0.520	9	NASH, DONAL B. & DEBORAH L.
NW¼ NW¼	700	IR	0.310	9	HEISTUMAN, T. & LAMBERT, S.
NW¼ NW¼	2700	IR	0.180	9	CURL, ANITA G.
NW¼ NW¼	3200	IR	0.030	9	CREASEY, DOUGLAS K. & KAREN L.
				Section 20	

Township 17 South, Range 12 East, W.M.

This certificate is issued to confirm changes in use and place of use approved by an order of the Water Resources Department Director entered 12/6/9, approving the Central Oregon Irrigation District petition for water rights mapping under ORS 541.325 to 541.331 and confirms those changes in place of use and points of diversion approved by orders of the Water Resources Director entered May 9, 1980; January 19, 1981; January 19, 1990; and May 9, 1990, not eligible for inclusion in the district water rights mapping petition.

This certificate supersedes certificate of water right numbered 29052.

The right to the use of the water for the above purpose is restricted to beneficial use on the lands or place of use described and is subject to all other conditions and limitations contained in said decrees.

WITNESS the signature of the Water Resources Director, affixed  $\frac{2/6/99}{}$ 

Instream Cease # 306 7-02/10-02 # 307 7-02/10-02 # 297 7-02/10-02 # 325 8-02/10-02 # 326 8-02/10-02 # 327 8-02/10-02 # 327 8-02/10-02 # 259 7-02/10-02 # 262 6-02/10-02 # 265 6-02/10-02

## STATE OF OREGON

## COUNTY OF DESCHUTES

## CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

SUPERSEDED BY CERT NO. 8357/

CENTRAL OREGON IRRIGATION DISTRICT 2598 N HIGHWAY 97 REDMOND, OREGON 97756

confirms the right to use the waters of THE DESCHUTES RIVER, a tributary of THE COLUMBIA RIVER, for IRRIGATION OF ACRES 43,746.93 ACRES, 781.957 ACRES/EQUIVALENT FOR MUNICIPAL USE, 158.01 ACRES/EQUIVALENT FOR POND MAINTENANCE, 87.10 ACRES/EQUIVALENT FOR INDUSTRIAL USE, 7.0 ACRES/EQUIVALENT FOR QUASI-MUNICIPAL USE, 2.80 ACRES/EQUIVALENT FOR DUST ABATEMENT, STOCK WATER, AND DOMESTIC USE.

This right was confirmed by decree of the Circuit Court of the State of Oregon for DESCHUTES County. The decree is of record at Salem, in the Order Record of the WATER RESOURCES DIRECTOR, in Volume 12, at Page 282 and in Volume 16, at pages 1 and 390. The dates of priority are OCTOBER 31, 1900 FOR 985.0 CUBIC FEET PER SECOND, AND DECEMBER 2, 1907 FOR THE BALANCE ALLOWED BY DECREE.

The amount of water used for irrigation, together with the amount secured under any other right existing for the same lands, is limited to a diversion of not to exceed the quantity determined by decree of the Circuit Court for Deschutes County, dated March 24, 1933, being:

April 1 to May 1 and Oct. 1 to Nov. 1 1 cfs to 80.0 acres
May 1 to May 15 and Sept. 15 to Oct. 1 1 cfs to 60.0 acres
May 15 to Sept. 15 1 cfs to 32.4 acres

for each acre irrigated by the Central Oregon Irrigation District main canal systems during the irrigation season of each year, not to exceed 9.91 acre-feet for each acre irrigated during the irrigation season as measured at the diversion from the source. The quantities reflect a 45% transmission loss as determined by decree of the Circuit Court for Deschutes County, dated March 24, 1933. Those lands not served from the district main canal systems but by direct pumping from the Deschutes River will not be allowed the 45% transmission loss.

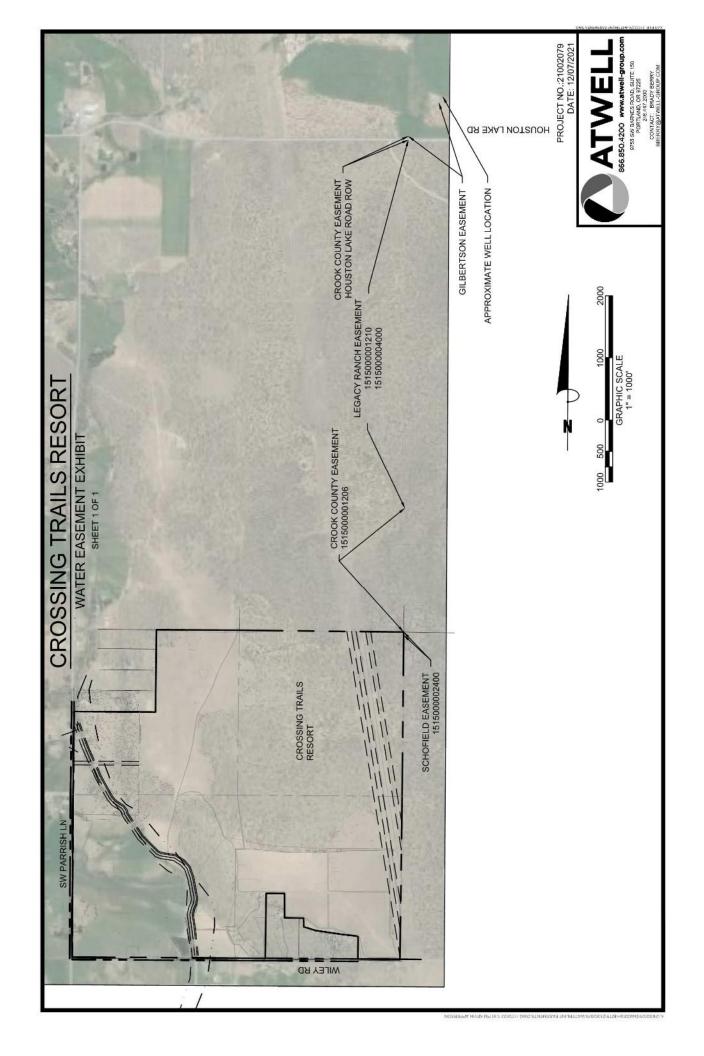
The points of diversion are located as follows:

- 1. Central Oregon Canal: SW4 NE4, Section 13, T. 18 S., R. 11 E., W.M.; 1520 feet south and 1535 feet west from the NE Corner of Section 13.
- Smith Properties, Inc.: Lot 4 (NW¼ NW¼), Section 5, T. 18 S., R. 12 E., W.M.; 440 feet south and 970 feet east from the NW Corner of Section 5.
- 3. Columbia Park: SE¼ SE¼, Section 31, T. 17 S., R. 12 E., W.M.; 740 feet north and 490 feet west from the SE Corner of Section 31.
- 4. Drake Park South: NE' SE', Section 31, T. 17 S., R. 12 E., W.M.; 700 feet north and 120 feet west from the SE Corner of NE' SE', Section 31.
- 5. Drake Park North: SW¼ NW¼, Section 32, T. 17 S., R. 12 E., W.M.; 2150 feet south and 750 feet east from the NW Corner of Section 32.
- 6. Harmon Park: SW¼ NW¼, Section 32, T. 17 S., R. 12 E., W.M.; 700 feet south and 680 feet west from the NE Corner of SW¼ NW¼, Section 32.

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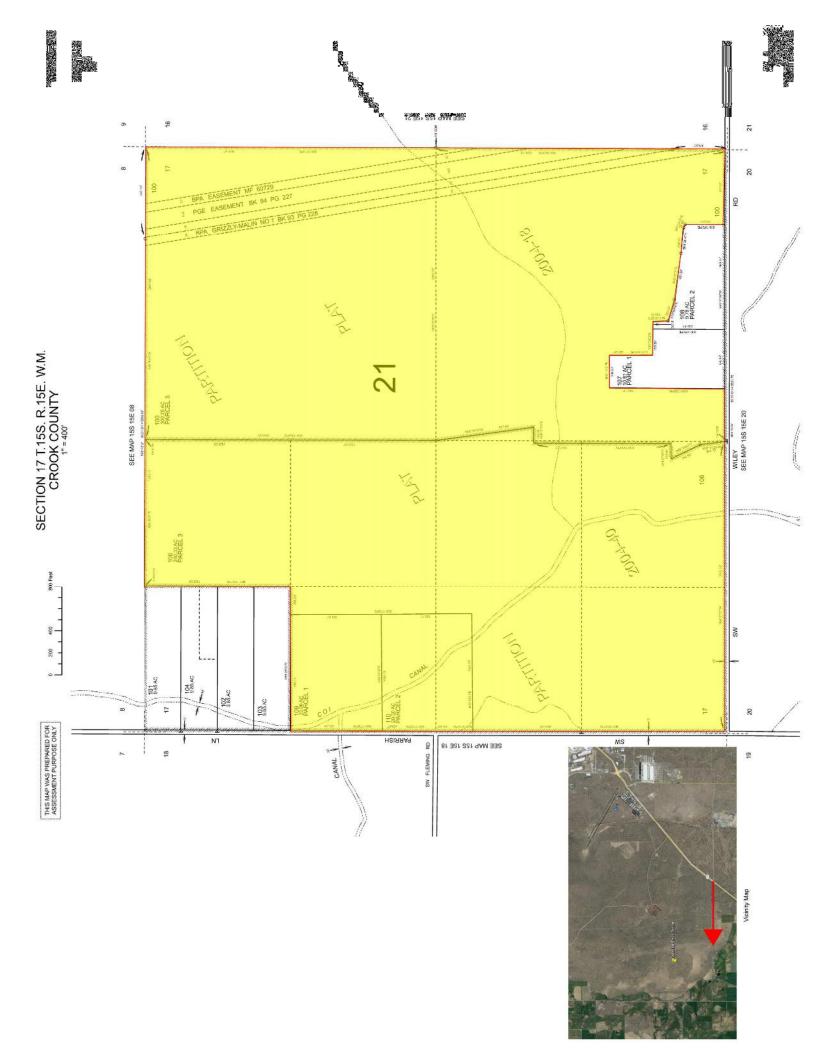
Crook County Onsite
Sewage Treatment



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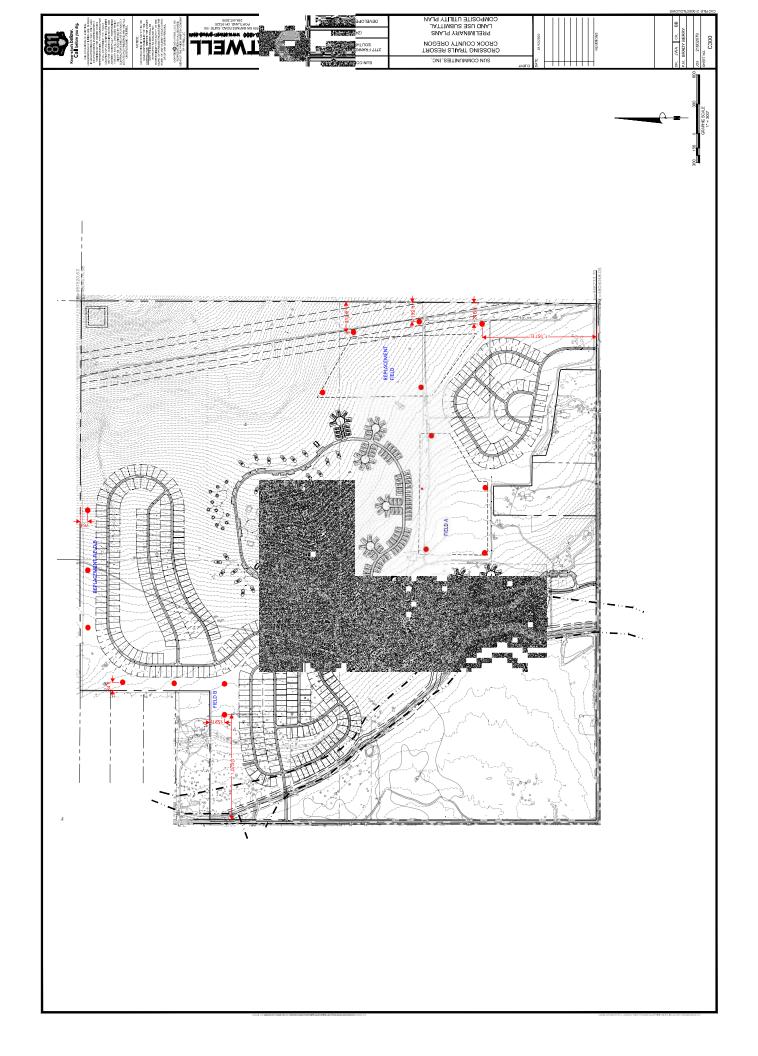
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## TABLE 1 OAR 340-071-0220

## **MINIMUM SEPARATION DISTANCES**

Items Requiring Setback	From Subsurface Absorption Area Including Replacement Area	From Septic Tank and Other Treatment Units, Effluent Sewer and Distribution Units
Groundwater Supplies and Wells.	*100'	50'
2. Springs:		
<ul> <li>Upgradient.</li> </ul>	50'	50'
<ul> <li>Downgradient.</li> </ul>	100'	50'
**3. Surface Public Waters:		
<ul> <li>Year round.</li> </ul>	100'	50'
Seasonal.	50'	50'
4. Intermittent Streams:		
<ul> <li>Piped (watertight not less than 25'</li> </ul>		
from any part of the on-site	20'	20'
system).	50'	50'
<ul> <li>Unpiped.</li> </ul>		
5. Groundwater Interceptors:		
<ul> <li>On a slope of 3% or less.</li> </ul>	20'	10'
On a slope greater than 3%:		
Upgradient.	10'	5'
Downgradient.	50'	10'
6. Irrigation Canals:		
Lined (watertight canal).	25'	25'
• Unlined:	051	051
Upgradient.     Down and dient.	25'	25'
Downgradient.	50'	50'
7. Cuts Manmade in Excess of 30 Inches		
(top of downslope cut):		
Which Intersect Layers that Limit Effective Soil Depth Within 48	50'	25'
Inches of Surface.	30	25
Which Do Not Intersect Layers that	25'	10'
Limit Effective Soil Depth.	20	10
8. Escarpments:		
Which Intersect Layers that Limit		
Effective Soil Depth.	50'	10'
Which Do Not Intersect Layers that	30	
Limit Effective Soil Depth.	25'	10'
9. Property Lines.	10'	5'
10. Water Lines.	10'	10'
11. Foundation Lines of any Building,	10	10
Including Garages and Out Buildings.	10'	5'
12. Underground Utilities.	10'	3
* 50 fact actionly for wells constructed with angula stans	lorde granted by WDD	_

<sup>\* 50-</sup>foot setback for wells constructed with special standards granted by WRD.

<sup>\*\*</sup>This does not prevent stream crossings of pressure effluent sewers.



# CROSSING TRAILS TRANSPORTATION IMPACT ANALYSIS

**CROOK COUNTY, OR** 

January 2022



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# Crossing Trails Transportation Impact Analysis Crook County, OR



EXPIRES: 06/30/20 23

Prepared for: Sun Crossing Trails, LLC 27777 Franklin Road, Suite 200 Southfield, Michigan 48034

Prepared by: Kittelson & Associates, Inc. 1001 SW Emkay Drive, Suite 140 Bend, OR 97702 541.312.8300

> Project Manager: Jacqueline Gulczynski, PE

> > Project Principal: Marc Butorac, PE

Project Number 26648

January 2022



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Appendix N – 2026 Build-Out Conditions Operational Analysis Worksheets

Appendix O – 2026 Mitigation Operational Analysis Worksheets

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Section 1 Executive Summary

# **EXECUTIVE SUMMARY**

This Transportation Impact Analysis (TIA) was developed for the proposed 580-acre Crossing Trails Destination Resort located in Crook County, Oregon. It was developed in accordance with the Crook County Transportation Impact Analysis requirements found in Chapter 18.180 in the County Code.

This report documents the methodology, findings, and mitigation recommendations of the TIA prepared for the proposed destination resort. Key findings and recommendations are summarized below:

- The proposed site plan has been modified from the originally approved traditional destination resort to an affordable, family friendly, outdoor living experience. The resort includes recreational activities and open space for guests and full-time occupants, workforce housing for employees on the resort and within the surrounding community, upscale manufactured homes/cabins, and overnight villas and resort rentals.
- Several planning documents have been completed or updated since the original approval of the site including the Crook County and Prineville Transportation System Plans and the OR Highway 126 Corridor Facility Plan. These documents no longer recommend grade separated interchanges at key intersections such as OR126/Tom McCall Road and OR126/Powell Butte Highway, but instead recommend at-grade improvements such as roundabouts.
- A traffic study for a destination resort at this site was completed in 2008 with a similar dwelling unit count but different site plan. The anticipated volumes on OR126 are lower than anticipated in the 2008 traffic study, therefore reducing the study area from the original study.
- The site is anticipated to generate 3,567 total daily trips, 278 weekday PM peak hour trips and 317 Saturday midday peak hour trips.
- None of the study intersections exceeded 90<sup>th</sup> percentile crash rates, critical crash rates, or were identified on the Statewide Priority Index System for the review period of 2015-2019.
- Two study intersections are expected to exceed mobility targets in the existing condition: OR126/Powell Butte Highway and OR126/Tom McCall Road.
- The neighboring developing/approved destination resort vested trips were included in the background conditions analysis. Powell Butte/Alfalfa Market Road is not expected to meet mobility targets in the 2026 background condition.
- OR126/Parrish Lane is the primary access to the development and is expected to exceed mobility targets in the 2026 build-out condition.
- Clear sight lines are provided at all anticipated site access locations.
- This report complies with the Crook County Destination Resort Overlay Code Requirements as presented in section 18.116.100.6 for the 20-year horizon year.

Upon review of the findings above, key recommendations to support the surrounding transportation infrastructure include:

- Construct eastbound and southbound left turn lanes at OR126/Parrish Lane the primary access to the development.
- Participate proportionally to completing the following off-site improvements to mitigate impacts to the state and county system:
  - Hidden Canyon shall construct a multilane roundabout at OR126/Powell Butte Highway to include two lanes in the eastbound and westbound directions and a northbound right turn yield bypass lane.
  - ODOT/The City of Prineville shall consider widening the OR126/Tom McCall Road roundabout.
     Based on current and projected volumes, two lanes may be required for the eastbound and southbound approaches along with a northbound right turn yield bypass lane.

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- Crook County shall construct a single lane roundabout at Powell Butte Highway/Alfalfa Road as
  this is a primary route for both Brasada Rach and Hidden Canyon and is impacted by site trips to
  and from Bend.
- Contribute the following pro-rata shares to offset the impacts to the regional network comparable to the level of impact, including:
  - OR126/Powell Butte Highway: 4%, \$120,000
  - OR126/Tom McCall Road: 5%, \$50,000
  - Powell Butte Highway/Alfalfa Market Road: 5%, \$75,000

The total pro-rata payment is equal to \$275,000.

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Section 2 Introduction

## INTRODUCTION

Sun Communities, Inc. is updating the previously approved 580-acre destination resort in Crook County. The location of the destination resort is shown in Figure 1. This section documents the project background history and other relevant planning documents relevant to the project area.

## PROJECT BACKGROUND

A Transportation Impact Analysis (TIA) was completed for a destination resort on the same 580-acre site in 2008 by Ferguson & Associates, Inc (see Appendix A). The destination resort was to include 735 units (490 single family dwelling units and 245 rental units), a golf course, and other recreational amenities. In 2009, the application was approved by the County and ODOT and the property was included in the County's Destination Resort Overlay Zone. The conditioned approval required off site mitigations as identified in the TIA. Mitigation measures were negotiated and agreed upon with the support of a supplementary transportation analysis completed by OTAK (see Appendix B) that included proportionate shares for several surrounding off-site intersections. The conditioned off-site transportation improvement mitigation cost was \$754,950 (in 2008 dollars).

The conditions and proportionate shares at each location were agreed upon by the County and ODOT along with the following obligations assigned to the applicant<sup>1</sup>:

- The applicant must pay the proportionate share of the Powell Butte Hwy/OR126 and Veterans Way/OR126 improvements prior to construction of Phase 1 (a total of \$289,250).
- Prior to the first building permit, the applicant must construct or cause to have constructed improvements at Parrish Lane/OR126 and shall cause to have constructed modifications to close Wiley Road/OR126.
- The applicant must pay the proportionate share of the Tom McCall/Hwy126, Hwy126/Hwy26, and Reif Road/Hwy126 improvements (a total of \$215,700) no later than three years after the Phase 1 plat is recorded.

. The approval conditions and costs reflected the 2008 traffic study and supplemental analysis. Since the approval, several of the identified projects have changed or been completed. Additionally, the conditions of approval included a clause that increases costs with inflation. With the updated s2021/2022 site plan and an approved traffic study from over 10 years prior, ODOT and Crook County requested an updated traffic study to reflect today's conditions

## CHANGES TO SURROUNDING TRANSPORTATION SYSTEM

The conditions of approval were agreed to 2009, however, the developer has not proceeded with permitting and construction on the site. Since then, several planning documents have been updated, relevant corridor and transportation system plans have been approved, and various transportation improvements have been constructed within the study area.

## **Planning Documents and Findings**

The following planning documents are relevant to the study area. OR Highway 126 Corridor Facility Plan (2012)

•	Prineville	Transportation	System	Plan	(2013)
-	1 111 10 1 1110	nansponanon	0,310111	i idii	(2010)

<sup>&</sup>lt;sup>1</sup> See Appendix B

Crook County Transportation System Plan (2017)

Each plan is briefly described below.

### **OR Highway 126 Corridor Facility Plan**

The OR Highway 126 Corridor Facility Plan "establishes a long-term vision for OR Highway 126 and provides a series of strategies aimed at addressing corridor congestion, improving safety, supporting economic development and expected population growth in Crook County and Prineville, and serving statewide mobility needs." The plan extends from the Deschutes/Crook County line to the west to the "Y" intersection (OR126/US26) to the east.

Table 1 summarizes the relevant projects identified in the implementation plan, cost estimates, and status of the projects.

Table 1. Summary of OR Highway 126 Corridor Facility Plan Projects

Project Name	Project Description	Project Cost <sup>1</sup>	Project Status
Crook County Line to Millican Road	Long term: Shoulder Widening	\$7.8M	Incomplete
Powell Butte Highway/OR126	Short term: single roundabout Long term: multilane roundabout	\$3.7M	Incomplete
Airport Way/Millican Road/OR126	Short term: extend storage for left turn lanes  Medium term: Closure/consolidation with Tom McCall Road	Included in Tom McCall / OR126 Roundabout	Complete (frontage to Tom McCall and circulation improvements)
Tom McCall Road/ OR126	Short term: Install/extend turn lanes, signalize intersection  Medium term: frontage road connections, widen to 5-lane section  Long term: construct interchange	\$17.4M (includes build out of short-, medium- and long- term projects including full interchange)	Complete (constructed as single lane roundabout. Awarded bid cost was \$3.3M)

<sup>&</sup>lt;sup>1</sup>Cost as reflected in the Corridor Plan

#### **Prineville Transportation System Plan**

The City of Prineville updated their Transportation System Plan (TSP) in 2013. The purpose of the TSP is to provide the City, County and ODOT with guidance for operating and improving the multimodal transportation system within the Prineville Urban Growth Boundary. The TSP identified the need for an intersection improvement at Tom McCall Road/OR126. A single lane roundabout was constructed and completed at the Tom McCall Road/OR126 in 2018.

#### **Crook County Transportation System Plan**

The Crook County TSP was updated in 2017. It provides a 20-year plan of the long-range vision for the transportation system in the County. It includes prioritized projects and costs, summarizes current funding, and provides recommendations for future potential funding sources. Table 2 summarizes the projects identified in the TSP within the study area, cost estimates, and current project status.

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<sup>&</sup>lt;sup>2</sup> OR Highway 126 Corridor Facility Plan, 2012

Table 2. Summary of Crook County TSP Projects in Crossing Trails Study Area

Project Name	Project Description	Project Cost <sup>1</sup>	Project Status
Powell Butte Highway/OR126	Construct a roundabout	\$3.5M	Incomplete
Secondary Prineville Airport Access	Add roadway to connect Airport Road to Tom McCall Road. This is a City roadway and is planned as part of the Tom McCall Road/OR 126 intersection improvement project. The project is funded (and therefore not included in the cost estimates) and construction is expected in early 2018.	\$3.3M <sup>2</sup> (Included in Tom McCall / OR126 Roundabout)	Complete
Williams Road and OR 126 Intersection	Convert existing intersection to two offset T intersections by relocating the access on the southern side of OR 126.	\$5M	Incomplete
OR 126 access closure from Wiley Road	Close the public access point from the minor road to OR 126.	\$5k	Incomplete
Powell Butte Highway realignment	Realign the 90 degree turns at Alfalfa Road and Shumway Road by continuing Powell Butte Highway south along Shumway Road and using an appropriate 50 mph curve to connect back to the existing Powell Butte Highway alignment.	Visionary	Incomplete
Powell Butte Highway reconstruction at Deschutes County Line	Reconstruct Powell Butte Highway at the Deschutes County line to remove the sight distance restriction caused by the blind hill. Deschutes and Crook Counties should enter into cooperative agreement to complete this project.	\$750k	Incomplete
Powell Butte Road horizontal curves pavement markings <sup>3</sup>	Add or enhance curve warning signs and pavement markings per recommendation of ODOT's Roadway Departure Plan.	\$2k	Incomplete
Powell Butte (OR 126) traffic calming/speed reductions	Install/maintain speed feedback signs and narrow lane striping to 11-ft lanes to reduce vehicle travel speeds on OR 126.	\$34k	Incomplete
OR 126 systemic safety treatments	Install edgeline and centerline rumble strips on OR 126. As vehicle fleet technology changes in the future to provide warnings when drivers cross center and edgeline, the use of these treatments may begin to decrease. However, it will take many years for the vehicle fleet turnover to be complete; therefore, rumble strips continue to serve as effective safety treatments.	\$50k	Partially complete
Systemic safety intersection treatment on OR 1264	Upgrade unsignalized intersection signs at intersections of OR 126 and Reif Road as well as OR 126 and Copley Road with enhanced signage and pavement markings to increase intersection visibility and awareness.	\$3k	Incomplete

OR 126 enhanced pedestrian crossing in Powell Butte	Install an enhanced pedestrian crossing with a rectangular rapid flashing beacon (RRFB) on OR 126 within Powell Butte. Due to the proximity to the existing flashing warning sign, replace the flashing "School: Speed 20 When Flashing" signs with "School Speed Limit 20, 7:30-8:30 AM 2:30- 3:30 PM" signs.	\$20k	Incomplete
OR 126 paved shoulders	Widen paved shoulders to bring OR 126 up to future bicycle route standards. OR 126 provides local connectivity between Prineville and Powell Butte and provides regional connectivity between Prineville and Redmond. It is also part of the national bikeway corridor. The OR 126 Plan also recommends shoulder widening on OR 126 to better facilitate vehicle recovery, emergency stops, and service vehicles, and to allow wide loads and farming equipment to traverse the highway more safely	\$6.5M	Incomplete

<sup>&</sup>lt;sup>1</sup>Cost as reflected in the TSP

## PROJECT DESCRIPTION AND STUDY AREA

Since the original approval, the site plan has been modified and includes updates to the uses and general purpose of the resort. The new plan transitions from a traditional destination resort to an affordable, family friendly, outdoor living experience. The site plan includes recreational activities and open space for guests and full-time occupants, workforce housing for employees on the resort and within the surrounding community, upscale manufactured homes/cabins, and overnight villas and resort rentals. Figure 2 illustrates the proposed site plan.

There are three proposed access points identified on the site plan including:

- Primary Access on Wiley Road (proposed as full-access, stop-controlled, T-intersection)
- Approximately 0.5 mile east of Wiley Road/Parrish Lane intersection
- Secondary Access on Parrish Lane (proposed as full-access, stop-controlled, T-intersection)
- Approximately 0.6 mile north of Wiley Road/Parrish Lane intersection
- Workforce Housing Access (proposed as full-access, stop-controlled, T-intersection)
- Approximately 0.9 mile east of Wiley Road/Parrish Lane intersection

<sup>&</sup>lt;sup>2</sup>Bid cost of Tom McCall/OR126 Roundabout project

<sup>&</sup>lt;sup>3</sup>Project identified as part of the ODOT All Roads Transportation Safety Program

<sup>&</sup>lt;sup>4</sup>Project identified as part of the ODOT Intersection safety Implementation Plan

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Site Vicinity Map Crook County, Oregon Figure 1



## SCOPE AND ANALYSIS METHODOLOGY

A scoping memorandum was completed and submitted to ODOT, Crook County, and the City of Prineville November 12<sup>th</sup>, 2021. The memorandum summarized the project assumptions for the TIA such as trip generation and distribution, analysis scenarios, analysis tools, and study assumptions. The scoping memorandum is provided in Appendix C. Several key analysis assumptions are summarized below:

#### STUDY YEARS

The study should evaluate the existing traffic conditions (2021), the build out year background traffic conditions (includes the regional growth but no site development traffic), and the buildout year total traffic conditions (includes background traffic plus site generated trips).

### TIME PERIODS AND DATA COLLECTION

Turning movement count data was collected in November 2021. The study periods included in the analysis were for the weekday PM peak hour (4:00-6:00pm) and the Saturday midday peak hour (12:00-4:00pm). A review of morning peak hour trips shows the weekday a.m. peak hour trip generation was approximately 75% of the weekday p.m. peak hour. The site primarily attracts recreational users who are likely to travel on the weekend. Given the high recreational use of OR126 (particularly on the weekends), a Saturday analysis period captures this demand.

The weekday PM system peak hour was 4:10-5:10pm and the Saturday midday peak hour was 12:25pm-1:25pm.

#### STUDY INTERSECTIONS

As shown in the scoping memorandum, the following intersections were included in the traffic study:

- 1. Powell Butte Highway/Alfalfa Road
- 2. Powell Butte Highway/Bussett Road
- Powell Butte Highway/Riggs Road
- 4. Powell Butte Highway/OR126
- 5. Reif Road/OR126
- 6. Williams Road/OR126
- Copley Road/OR126
- 8. Minson Road/OR126
- 9. Parrish Lane/OR126
- 10. Parrish Lane/Wiley Road
- 11. Parrish Lane/Houston Lake Road
- 12. Tom McCall Road/OR126

## ANALYSIS TOOLS AND MOBILITY TARGETS

The intersection operational analysis will be performed using the *Highway Capacity Manual (HCM)*, 6<sup>th</sup> *Edition* analysis procedures. To ensure that this analysis is based on a reasonable worst-case scenario, the peak 15-minute flow rate during the weekday p.m. peak hour and Saturday midday peak hour were used in the evaluation of all intersection level-of-service (LOS) and volume-to-capacity (V/C) ratios. The stop-controlled intersection operations analyses were completed using Synchro 11 software and SIDRA was used for the roundabout analysis.

## **ODOT Mobility Targets**

ODOT assesses intersection operations based on established mobility targets (as defined by the volume-to-capacity (v/c) ratio). Table 6 of the *Oregon Highway Plan* (OHP) provides the mobility targets for facilities outside the Portland Metro area. There is one state facility within the study area: OR126 – Ochoco Highway. OR126 is designed by the OHP as a Statewide Freight Route and an Expressway.

Table 6 of the OHP states that a freight route on a statewide highway and an expressway outside of an urban growth boundary in an unincorporated community should maintain a mobility target v/c ratio less than 0.70. However, the OHP states that non-state highway unsignalized intersection approaches should adhere to the volume to capacity ratio for District/Local Interest Roads. Therefore, the mobility standard for the side street approaches to OR126 intersections within the study area is a v/c ratio less than 0.80.

As part of the intersection study completed for the roundabout at OR126/Tom McCall Road, an alternative mobility target was used to allow for the construction of the existing single-lane roundabout. This target allowed for a v/c ratio of 0.90 for all approach. This target was used for the analysis presented in this report.

## **County Mobility Targets**

Crook County intersection mobility targets adhere to a v/c ratio and Level of Service (LOS) threshold. For unsignalized intersections, the mobility target is a v/c ratio less than 0.95 and a LOS E or F.

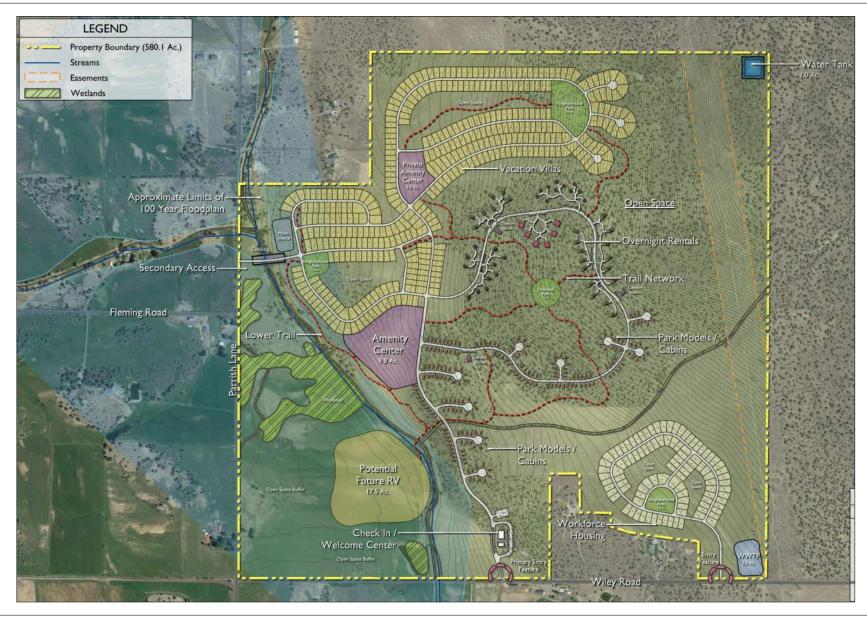
## **Mobility Target Summary**

Table 4 summarizes the mobility targets for the proposed study intersections.

Table 3. Study Intersection Control and Mobility Target

Study Int. #	Intersection	Classification / Jurisdiction	Intersection Control	Mobility Target
1	Powell Butte Highway/Alfalfa Road	County	Stop Controlled	LOS E/F and v/c<0.95
2	Powell Butte Highway/Bussett Road	County	Stop Controlled	LOS E/F and v/c<0.95
3	Powell Butte Hwy/ Riggs Road	County	Stop Controlled	LOS E/F and v/c<0.95
4	Powell Butte Highway/OR126	ODOT	Stop Controlled	Side-Street: OHP: v/c<0.80 Mainline: OHP: v/c<0.70:
5	Reif Road/OR126	ODOT	Stop Controlled	Side-Street: OHP: v/c<0.80 Mainline: OHP: v/c<0.70:
6	Williams Road/OR126	ODOT	Stop Controlled	Side-Street: OHP: v/c<0.80 Mainline: OHP: v/c<0.70:
7	Copley Road/OR126	ODOT	Stop Controlled	Side-Street: OHP: v/c<0.80 Mainline: OHP: v/c<0.70:
8	Minson Road/OR126	ODOT	Stop Controlled	Side-Street: OHP: v/c<0.80 Mainline: OHP: v/c<0.70:
9	Parrish Lane/OR126	ODOT	Stop Controlled	Side-Street: OHP: v/c<0.80 Mainline: OHP: v/c<0.70:
10	Parrish Lane/Wiley Road	County	Stop Controlled	LOS E/F and v/c<0.95
11	Parrish Lane/Houston Lake Road	County	Stop Controlled	LOS E/F and v/c<0.95
12	Tom McCall Road/OR126	ODOT	Roundabout	Side-Street: OHP: v/c<0.90 Mainline: OHP: v/c<0.90:

Crossing Trails Destination Resort December 2021



RECEIVED FROM SUN LAND DEVELOPMENT: (10/25)

Proposed Site Plan Crook County, Oregon Figure 2





Section 3 Existing Conditions

# **EXISTING CONDITIONS**

The existing conditions analysis identifies the site conditions and the current operational and geometric characteristics of roadways within the study area. The purpose of this section is to provide a basis for comparison to future conditions.

The site and surrounding study area was visited and inventoried in December 2021. At that time, information was collected regarding site conditions, adjacent land uses, existing traffic operations, and transportation facilities in the study area.

## TRANSPORTATION FACILITIES

Table 3 provides a summary of transportation facilities (including pedestrian and bicycle facilities) in the site vicinity. Figure 4 illustrates the existing lane configurations and traffic control devices at the identified study intersections.

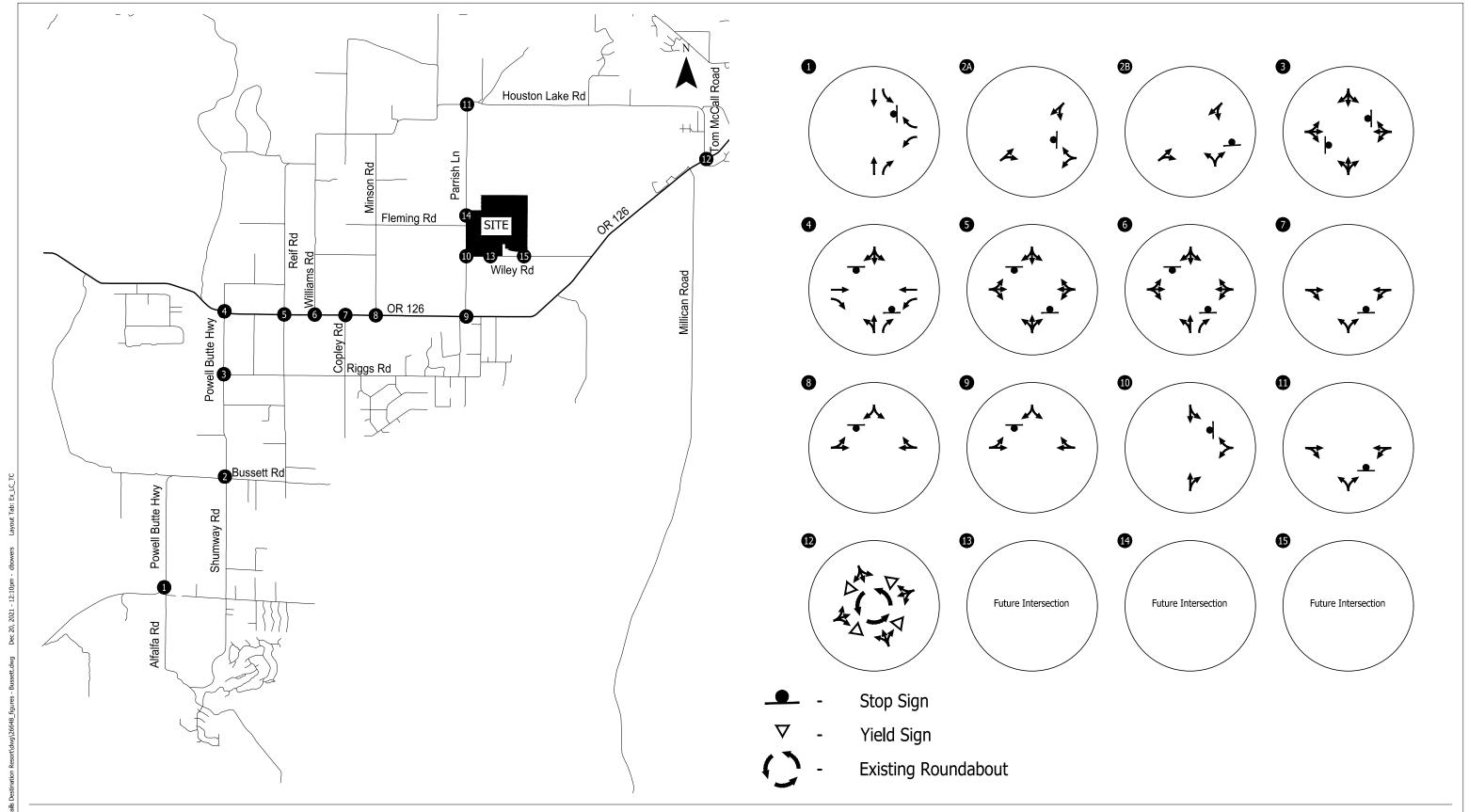
**Table 4: Existing Transportation Facilities** 

Roadway	Jurisdiction	Classification <sup>1</sup>	Cross Section	Speed Limit (mph) <sup>2</sup>
Powell Butte Highway	Crook County	Minor Arterial	2 lane	55
Alfalfa Road	Crook County	Major Collector	2 lane	N.P.
Bussett Road	Crook County	Major Collector	2 lane	N.P.
Riggs Road	Crook County	Major Collector	2 lane	N.P.
OR-126	ODOT	Principal Arterial	2 lane	40-55
Reif Road	Crook County	Major Collector	2 lane	N.P.
Williams Road	Crook County	Minor Collector	2 lane	N.P.
Copley Road	Crook County	Minor Collector	2 lane	N.P.
Minson Road	Crook County	Minor Collector	2 lane	N.P.
Parrish Lane	Crook County	Minor Collector	2 lane	N.P.
Wiley Road	Crook County	Local Road	2 lane	N.P.
Houston Lake Road	Crook County	Major Collector	2 lane	N.P.
Tom McCall Road	Crook County	Major Collector	2 lane	N.P.

<sup>&</sup>lt;sup>1</sup> Based on the Oregon Highway Plan Classification and the Crook County TSP Classification

<sup>&</sup>lt;sup>2</sup>N.P. = Not Posted

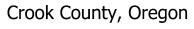
Crossing Trails Destination Resort



Existing Lane Configurations and Traffic Control Devices

v Oregon

Figure





#### TRANSIT FACILITIES

Cascades East Transit has a transit line between Redmond and Prineville along OR126. The route includes stops at the Redmond Transit Hub, OR126/Williams Road (Powell Butte Church), and three stops in downtown Prineville. The Powell Butte Church stop is only operational Monday-Friday with westbound service in the mornings and eastbound service in the evenings. A dial-a ride service is provided in Prineville City Limits between 7:00am-5:30pm Monday-Friday. No other services are provided other than private charter or ride share services.

#### PEDESTRIAN AND BICYCLE FACILITIES

None of the study roadways have dedicated pedestrian or bicycle facilities. The Crook County TSP identifies the need for an enhanced multimodal network for both recreational and commuter users. The TSP recommends enhancing the marked crossing on OR126 at Williams Road and installing pedestrian level lighting. It also recommends widening the shoulders on County Roads including Alfalfa Road, Shumway Road, Powell Butte Highway, and Houston Lakes Road as well as OR126.

## TRAFFIC VOLUMES

Turning movement counts were collected at the study intersections for both the weekday PM peak period (4:00 to 6:00 PM) and the Saturday midday peak period (12:00 PM to 4:00 PM). The traffic count sheets are included in Appendix D. Counts were seasonally adjusted per ODOT Analysis Procedure Manual (APM) methodologies from the Automatic Traffic Recorder (ATR) 07-002 located on OR126 at milepost 3.23.

## **CURRENT INTERSECTION OPERATIONS**

Figures 4 and 5 summarize the level-of-service, delay, and capacity analysis results for the study intersections under existing traffic conditions during the weekday PM and Saturday midday peak hours, respectively. Appendix E includes the existing conditions level-of-service worksheets.

The following intersections do not meet mobility targets in the existing condition:

- OR126/Powell Butte Highway, Weekday PM Peak Hour
- OR126/Tom McCall Road, Weekday PM Peak Hour

### OR126/Powell Butte Highway

The northbound approach of Powell Butte Highway does not meet ODOT mobility targets in the Weekday PM peak hour condition. The high speeds and volumes on OR126 make turning movements from Powell Butte Highway onto OR126 a challenging movement. The Crook County TSP and the OR Highway 126 Corridor Facility Plan acknowledge the need for an improvement at this intersection. Hidden Canyon Resort is conditioned to construct this roundabout prior to occupancy of the 251st dwelling unit or provide funds equivalent to the construction if the roundabout is constructed prior to reaching occupancy levels.

#### OR126/Tom McCall Road

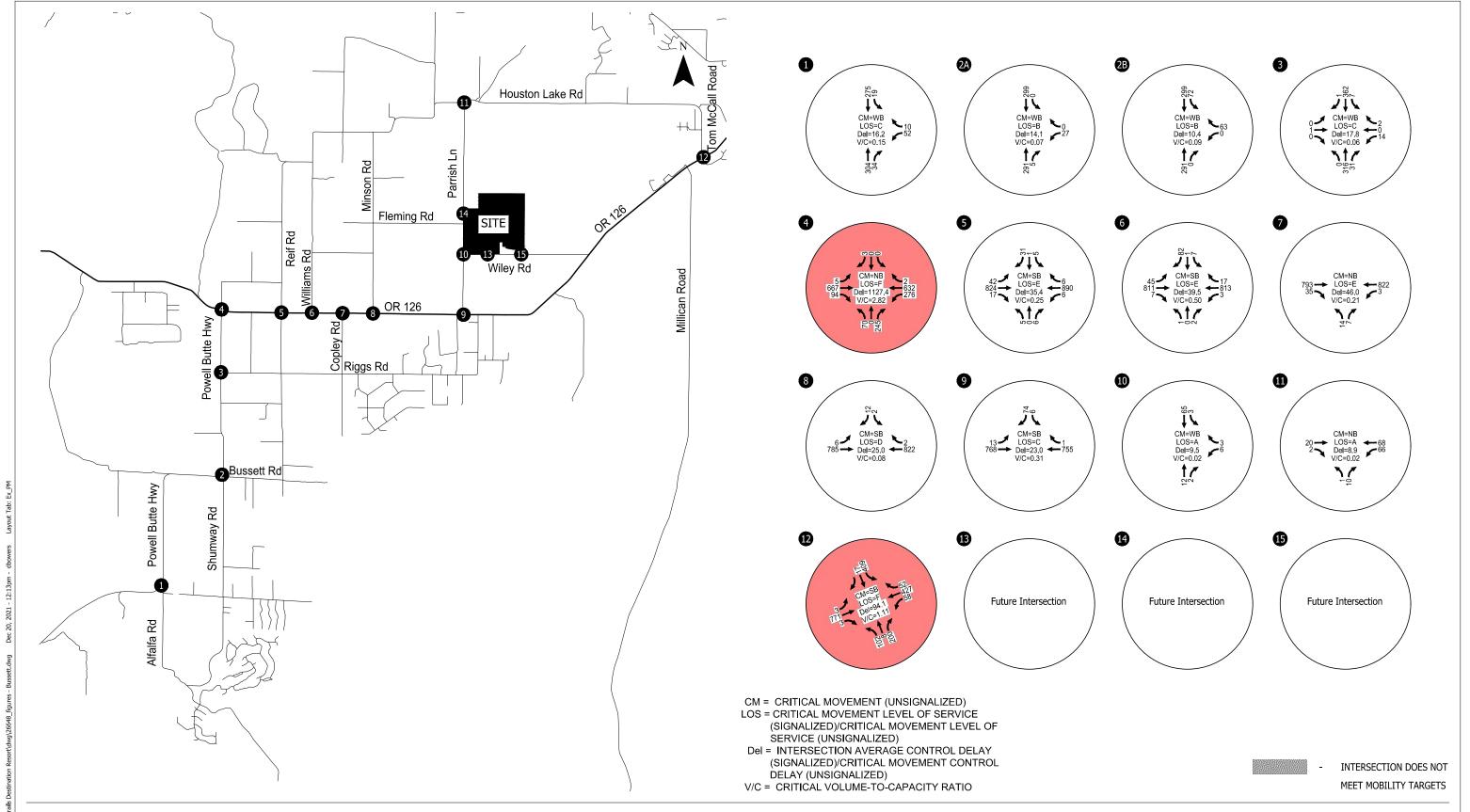
The roundabout at OR126/Tom McCall was completed in 2018 with alternative mobility targets agreed upon by ODOT. According to the traffic analysis completed in 2016, ODOT and the City of Prineville agreed upon a modified v/c target of 0.90 at the roundabout. The traffic analysis is provided in Appendix F. The traffic study acknowledges the anticipated need for a future expansion of the roundabout from a single lane to a multilane.

Since the 2016 traffic study, substantial development has occurred near the intersection of OR126/Tom McCall Road. Large data centers have been constructed and expansions to the existing data centers are

currently under construction – particularly the Facebook/Meta site north of the intersection. According to the City of Prineville, there are approximately 1,000-2,000 daily weekday construction trips on the northside of Tom McCall Road serving the data centers. This additional traffic significantly impacts the operations of the roundabout. Based on a field visit counting vehicles leaving the construction site on December 15, 2021, there are approximately 600 weekday PM peak hour construction trips departing from the data centers and traveling southbound on Tom McCall Road through the roundabout. A sensitivity analysis was completed to identify the impact of the construction trips during the weekday PM peak hour. The results indicate that the roundabout would operate acceptably in the existing condition without the construction traffic. Operational results from the sensitivity analysis are provided in Appendix G.

According to the City, the duration of construction and temporary access to the data centers is unknown. The City anticipates site traffic after construction to be comparable to the construction traffic experienced today based on data center maintenance needs. Therefore, the future conditions analysis at the roundabout will include the construction traffic to provide a conservative estimate for traffic volumes on all the roundabout approaches.

Crossing Trails Destination Resort

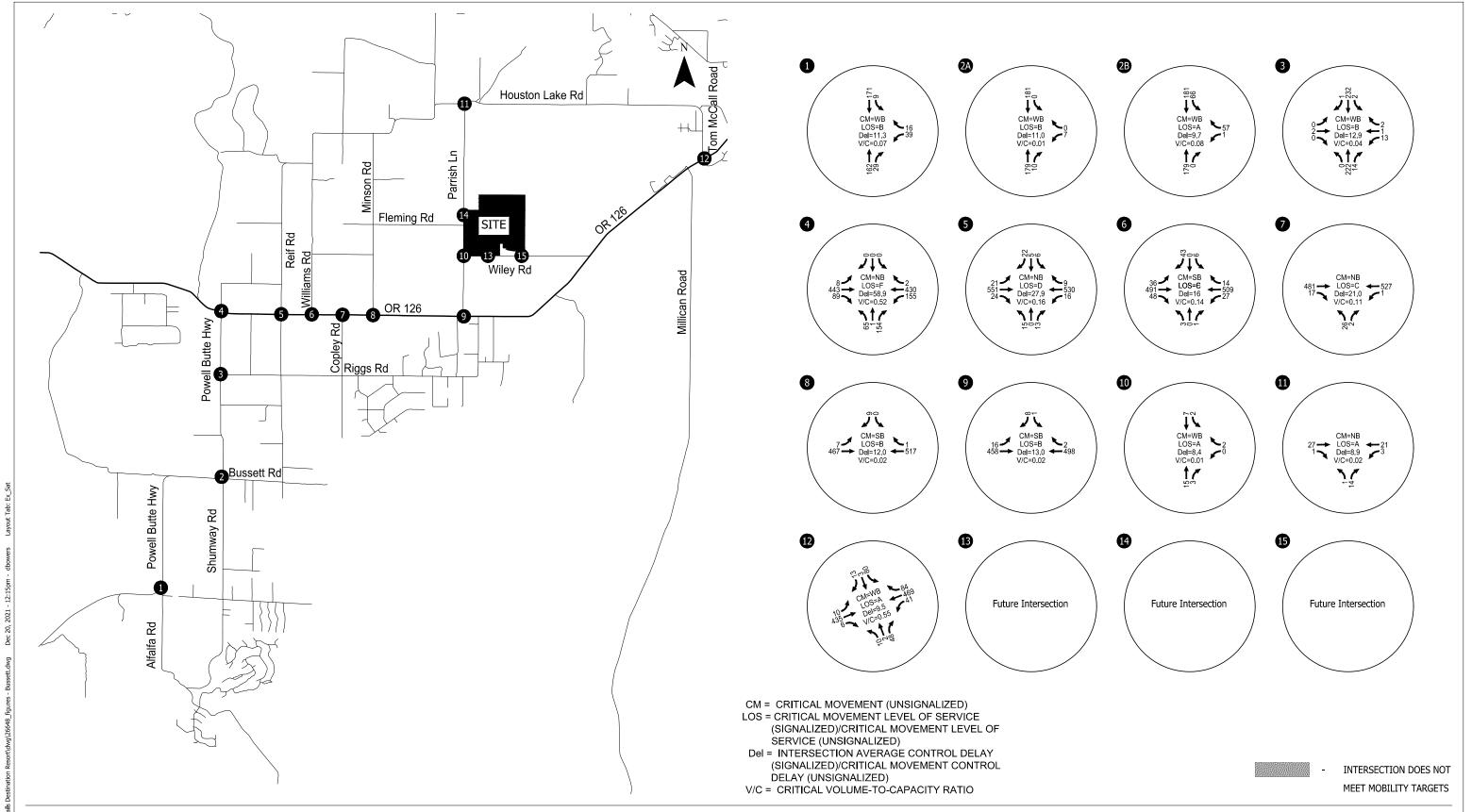


Existing Traffic Conditions Weekday PM Peak Hour Crook County, Oregon

Figure 4



Crossing Trails Destination Resort



Existing Traffic Volumes Saturday Peak Hour Crook County, Oregon

Figure 5



## **SAFETY REVIEW**

A safety review was conducted at the study intersections and reviews historical crash data and ODOT's Safety Priority Index System (SPIS). Safety data is presented below.

#### **CRASH HISTORY**

Data for reported crashes was obtained from ODOT for the five-year period from January 1, 2015 to December 31, 2019. Table 5 summarizes the findings from the study intersections. Appendix C contains the ODOT crash data.

Table 5. Historic Crash Data Summary

	Daia ooi	Crash Type					Cra			
Intersection	Angle	Turning Movement	Fixed Object	Rear End	Ped/ Bike	Other	PDO	Injury	Fatal	Total Crashes
Powell Butte Hwy/ Alfalfa Rd	0	0	1	0	0	1	1	1	0	2
Powell Butte Hwy/ Bussett Rd	0	0	2	1	0	2	3	2	0	5
Powell Butte Hwy/ Riggs Rd	0	1	0	0	0	1	1	1	0	2
Powell Butte Hwy/ OR126	0	9	0	6	0	0	4	11	0	15
Powell Butte Hwy/ Reif Rd	0	1	0	4	0	0	1	4	0	5
Williams Rd/OR126	0	0	1	5	0	0	4	2	0	6
Copley Road/ OR126	1	0	2	2	0	0	2	3	0	5
Minson Road/ OR126	0	0	0	2	0	2	1	3	0	4
Parrish Ln/OR126	0	0	1	3	0	0	0	4	0	4
Parrish Ln/Wiley Rd	0	0	0	0	0	0	0	0	0	0
Parrish Ln/Houston Lake Rd	0	0	0	0	0	0	0	0	0	0
Tom McCall Rd/OR126	0	0	0	4	0	0	1	3	0	4

The observed crash rate was calculated and compared with the 90<sup>th</sup> percentile crash rates and the critical crash rates in accordance with the APM. Table 6 summarizes the crash rate comparison. As shown, none of the study intersections exceed the 90<sup>th</sup> percentile crash rate or critical crash rate. The intersection of OR126/Tom McCall Road was improved to a single-lane roundabout in 2018. Therefore, the crash data from the five-year study period does not reflect the current conditions. The observed crash rate shown in Table 6 reflects years since the intersection has been upgraded.

Table 6. Crash Rate Comparison

Intersection	Observed Crash Rate	90 <sup>th</sup> Percentile Crash Rate	Over 90 <sup>th</sup> Percentile Crash Rate?	Critical Crash Rate	Over Critical Crash Rate?
Powell Butte Hwy/Alfalfa Rd	0.18	0.475	No	0.46	No
Powell Butte Hwy/Bussett Rd	0.44	0.475	No	0.46	No
Powell Butte Hwy/Riggs Rd	0.17	0.475	No	0.45	No
Powell Butte Hwy/OR126	0.48	1.080	No	0.64	No
Powell Butte Hwy/Reif Rd	0.15	1.080	No	0.64	No
Williams Rd/OR126	0.21	1.080	No	0.35	No
Copley Road/OR126	0.19	1.080	No	0.36	No
Minson Road/OR126	0.16	0.475	No	0.36	No
Parrish Ln/OR126	0.16	0.475	No	0.36	No
Parrish Ln/Wiley Rd	0.00	1.080	No	1.15	No
Parrish Ln/Houston Lake Rd	0.00	0.475	No	1.28	No
Tom McCall Rd/OR126	0.28	0.408	N/A	0.63	No

<sup>&</sup>lt;sup>1</sup> Calculated using the equation for intersection crash rate per million entering vehicles from the ODOT APM. Average Annual Daily Traffic was estimated based on weekday PM peak hour traffic volumes

#### **SPIS SITE REVIEW**

ODOT's Safety Priority Index System (SPIS) rating evaluates the potential safety issues on state highways through a review of crash frequency, crash rate, and crash severity. There are no intersections or roadway segments in the study area with a score in the top 10%.



Section 4
Background Conditions

# BACKGROUND CONDITIONS

The background traffic analysis identifies how the study area's transportation system will operate without the proposed development when the development opens. These background traffic volumes include changes due to added trips from approved developments affecting the study intersections as well as general regional growth. The site is anticipated to be built out by 2026.

#### APPROVED NEIGHBORING DESTINATION RESORTS

There are several entitled destination resorts within the surrounding Crook County and Deschutes County that will increase the traffic within the study area, particularly along OR126. These resorts are described below along with their current status and remaining vested trips provided in Table 7. There are approximately 4,800 approved units that are vested but not yet on the transportation system.

#### **Pronghorn**

Pronghorn Resort is located south of OR126 and traffic to/from the resort accesses OR126 via the Powell Butte Highway. The 640-acre resort is approved and under development. Approximately 75% of Pronghorn has been platted and/or built out.

#### Brasada Ranch

Brasada Ranch is an 1,800-acre destination resort community that includes single family homes, overnight lodging, a golf course, and recreational amenities located in Crook County approximately 10 miles northeast of Bend. The site was originally approved in 2004. Since approval, it has developed 13 phases for a total of 997.9-acres. Brasada Ranch was recently approved to begin Phase 14 (34.63-acres).

#### **Hidden Canyon**

Hidden Canyon is a 4,200-acre property east of Brasada Ranch approximately 5 miles south of OR126. The application was approved in 2019 and has not yet broken ground for Phase 1. Among other improvements not impacted by the Crossing Trails study area, the conditions of approval require Hidden Canyon to construct a single-lane roundabout at Powell Butte Highway/OR126 upon build out of the 251st dwelling unit.

#### Remington Ranch

Remington Ranch is a 2,080-acre approved destination resort approximately 2.5-miles north of OR126. The Ranch was first approved and incorporated into the Destination Resort Overlay Zone in 2007. Since then, the ownership of the property changed, and the applicant requested a modification to the original site plan. The modification reduced the number of units from 0.58 units/acre to 0.22 units/acre and reduced the number of golf courses at the resort.

Table 7. List of Approved Neighboring Destination Resorts

Name of Development	Size	Current Status	Unbuilt Vested Units as of 2021
Pronghorn	700 Units	Under development (531 units occupied)	169
Hidden Canyon	3,675 Units	Construction not started	3,675
Remington Ranch	450 Units	Construction not started	450
Brasada Ranch	1,125 Units	Under development (624 units occupied)	501
		Total	4,795

#### **Planned Transportation Improvements**

As stated in the Project Background section of this report, there are several transportation improvements identified within the study area. In addition, neighboring destination resorts are conditioned to pay proportionate share fees at several intersections within the scope of this study that do not meet future mobility targets. The improvements identified in other destination resort studies result from the vested or approved trips. Therefore, the conditioned traffic control improvements from the other studies are included in the background traffic assumptions and analysis. These improvements include:

- Construct a single-lane roundabout at Powell Butte Highway/OR126 with an eastbound and northbound right turn yield bypass lane.
- Reconstruct Powell Butte/Shumway-Bussett Road to create a single perpendicular intersection at the apex of the curve.

Figure 6 shows the assumed lane configurations and traffic control devices at the study intersections with the planned improvements. The lane configuration at Powell Butte Highway/OR126 reflects a roundabout configuration as described in the Hidden Canyon TIA (this is the roundabout conditioned on Hidden Canyon for construction).

#### **BACKGROUND TRAFFIC ANALYSIS**

Year 2026 future traffic volumes were developed for the weekday PM and Saturday midday peak hour conditions by increasing the year 2021 existing traffic volumes using a 1.6-percent annual growth rate and then adding the trips associated with the unbuilt units of the approved neighboring destination resort.

Figures 7 and 8 summarize the year 2026 background traffic operations analysis results at the study intersections for the weekday PM and Saturday midday peak hours, respectively. Generally, the highest traffic volumes and delays continue to occur during the weekday PM peak hour.

Appendix H includes the 2026 Background conditions level-of-service worksheets.

The following intersections do not meet mobility targets in the 2026 background condition:

- OR126/Powell Butte Highway, Weekday PM Peak Hour and Saturday Midday Peak Hour
- OR126/Tom McCall Road, Weekday PM Peak Hour
- Powell Butte Highway/Alfalfa Market Road, Weekday PM Peak Hour and Saturday Midday Peak Hour

#### **OR126/Powell Butte Highway**

The Hidden Canyon Destination Resort TIA completed in 2018 concluded a single-lane roundabout with eastbound and northbound right-turn yield bypass lanes would accommodate traffic at the intersection while meeting ODOT mobility targets in 2036. Updated traffic volumes and projections indicate 46% higher

Page 23

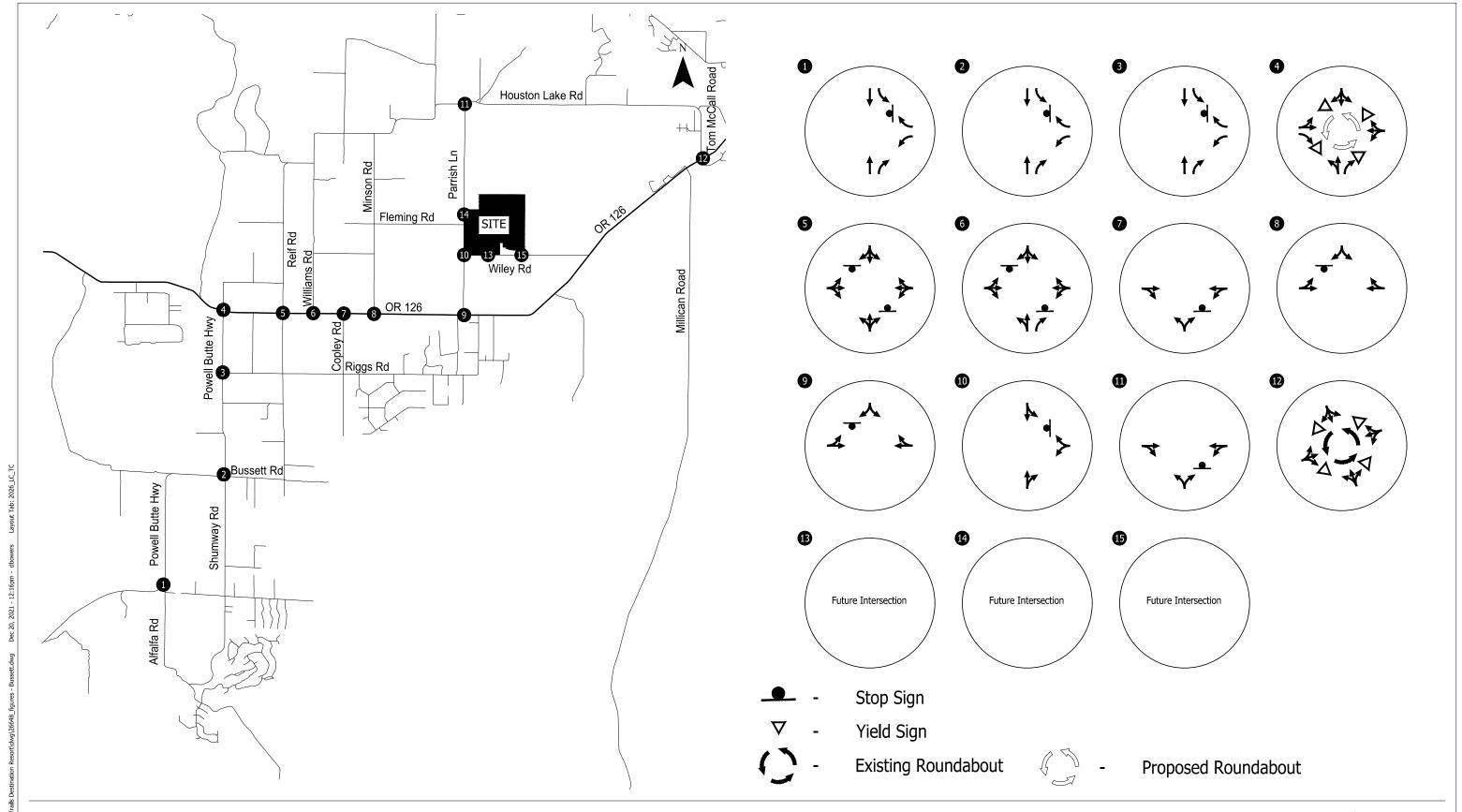
volumes westbound on OR126 and 17% higher volumes eastbound on OR126 compared to the 2036 Hidden Canyon build-out volumes. The increase in highway volumes means the right-turn bypass lanes does not facilitate enough capacity for OR126. Like the roundabout concept presented in the OR Highway 126 Facility Plan, two lanes on the highway approaches and a northbound right yield bypass lane would be required to meet mobility targets. The operational results of the sensitivity analysis for the 2026 background condition for the configuration described is provided in Appendix I.

#### **OR126/Tom McCall Road**

A single-lane roundabout continues to exceed capacity in the 2026 background condition during the weekday PM peak hour, as under existing conditions. To reduce the approach v/c ratios below the modified mobility target threshold of 0.90, northbound and southbound right-turn yield bypass lanes and a second eastbound lane are necessary. The operational results of the sensitivity analysis for the 2026 background condition for the configuration described is provided in Appendix J.

#### Powell Butte Highway/Alfalfa Market Road

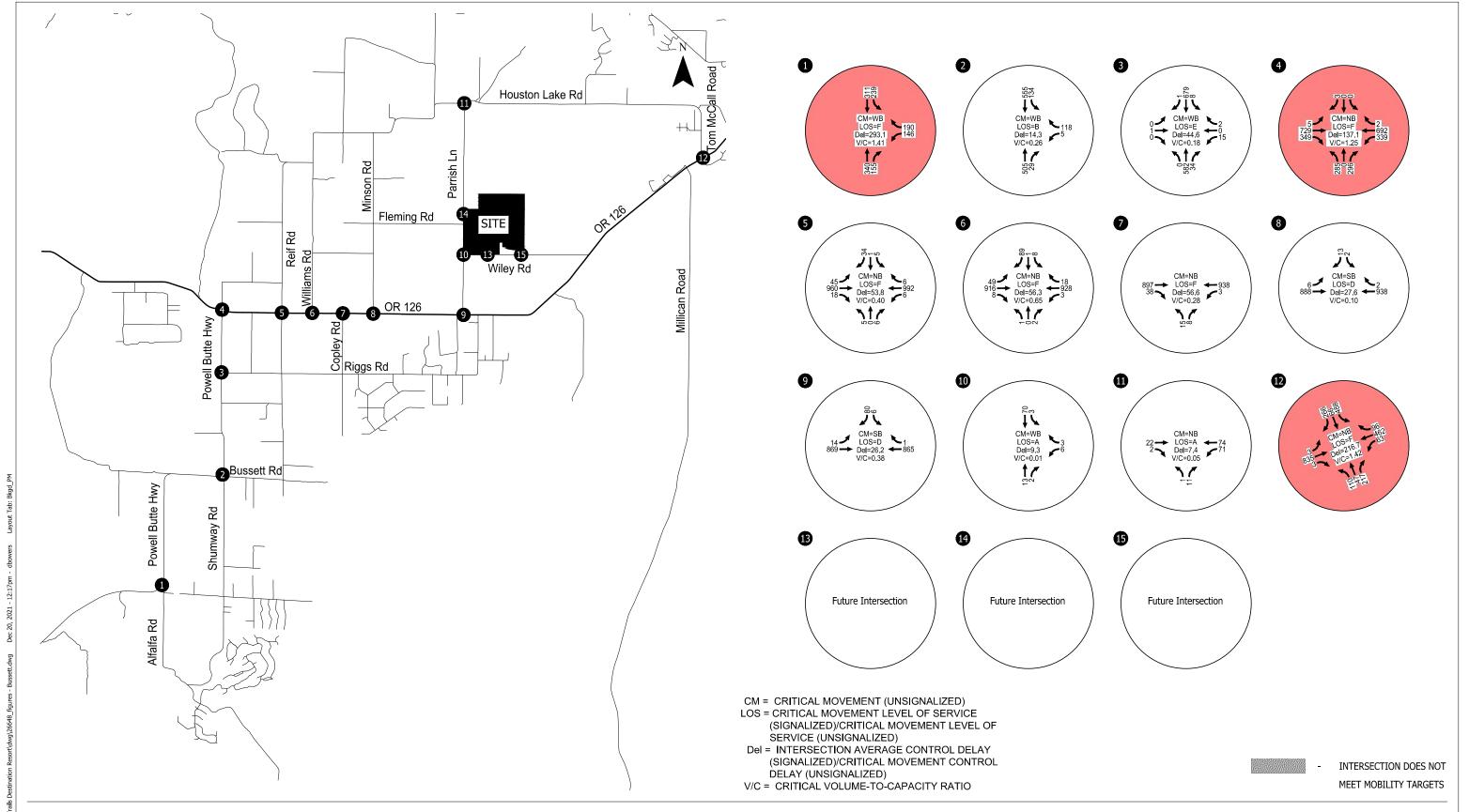
The intersection of Powell Butte Highway/Alfalfa Market Road is the primary access for Brasada Ranch, and one of the primary accesses for Hidden Canyon. The inclusion of the vested destination resort trips results in the intersection exceeding County mobility targets. The Hidden Canyon TIA similarly concluded the impacts of the resorts would result in exceeding mobility targets and recommended a single lane roundabout as a mitigation strategy. While a roundabout is not identified at this location in the Crook County TSP, the Hidden Canyon TIA recommended a roundabout at this intersection to improve capacity and safety. A single-lane roundabout would improve the operations of the intersection and meet mobility targets. The operational results of the sensitivity analysis for the 2026 background condition for the single lane roundabout is provided in Appendix K.



Assumed 2026 Lane Configurations and Traffic Control Devices

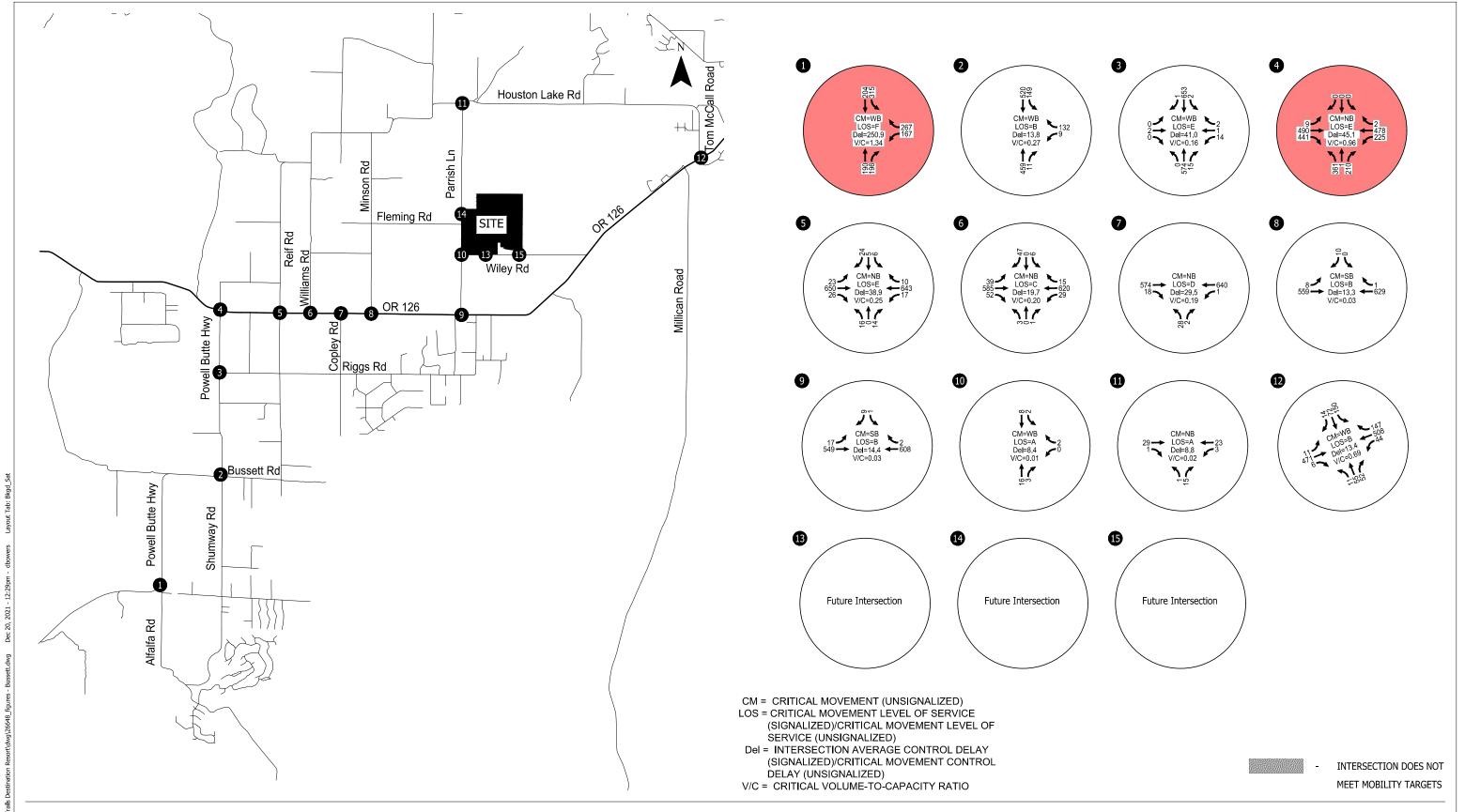
Crook County, Oregon





Year 2026 Background Traffic Conditions Weekday PM Peak Hour Crook County, Oregon





Year 2026 Background Traffic Conditions Saturday Peak Hour Crook County, Oregon





Section 5
Total Traffic Conditions

# TOTAL TRAFFIC CONDITIONS

The total traffic conditions identify how the study intersections will operate with the inclusion of the Crossing Trails trips in the developments build-out year (2026). It includes the 2026 background traffic (including background growth and vested trips from neighboring destination resorts) and site-generated trips.

### PROPOSED DEVELOPMENT

The property is currently approved for a 735-unit destination resort, as is shown in the original traffic study provided in Appendix A. The developer has recently proposed a new site plan for the property, including updating the uses and general purpose of the resort. The new plan transitions from a traditional destination resort to an affordable, family friendly, outdoor living experience. The site plan includes recreational activities and open space for guests and full-time occupants, workforce housing for employees on the resort and within the surrounding community, upscale manufactured homes, RV sites, and overnight villas. The proposed development includes 100 workforce housing units, 50 overnight resort units, 400 vacation villas, and 200 manufactured homes/cabins.

#### TRIP GENERATION

The proposed development includes 100 workforce housing units, 50 overnight resort units, 400 vacation villas, and 200 manufactured homes/cabins. Trip generation rates for the destination resort portion of the site were developed from a 2006 ODOT approved trip generation study that looked at trip data associated with several Central Oregon destination resorts. This report is provided in Appendix L. The weekday p.m. peak hour trip rate was 0.32 trips/unit, the Saturday midday peak hour trip rate was 0.44 trips/unit, and the daily trip rate was 3.2 daily trips/unit. The approved destination resort trip rates were applied to the overnight/vacation rentals, while the ITE 11th Edition Trip Generation rates for single-family homes were applied to the workforce housing units.

The workforce housing area is separated from the overnight/vacation rentals and is intended to provide convenient housing for employees of the resort. While employment at the resort cannot be conditioned to occupants of the resort, it was assumed a conservative 25% internalization of peak hour trips between the workforce housing and the resort.

Trip generation rates from the ITE 11th Edition Trip Generation Manual were compared to the ODOT approved destination resort rates. The weekday p.m. trip rates are similar and the Saturday midday trip rates from the ODOT study are approximately 10% higher than the ITE rates. Comparison trip generation tables are provided in Appendix M. Given that the destination resort rates in the ODOT study are based on local data, have been accepted by ODOT and local agencies, and are slightly more conservative, these rates were used to develop the trip generation shown in Table 8.

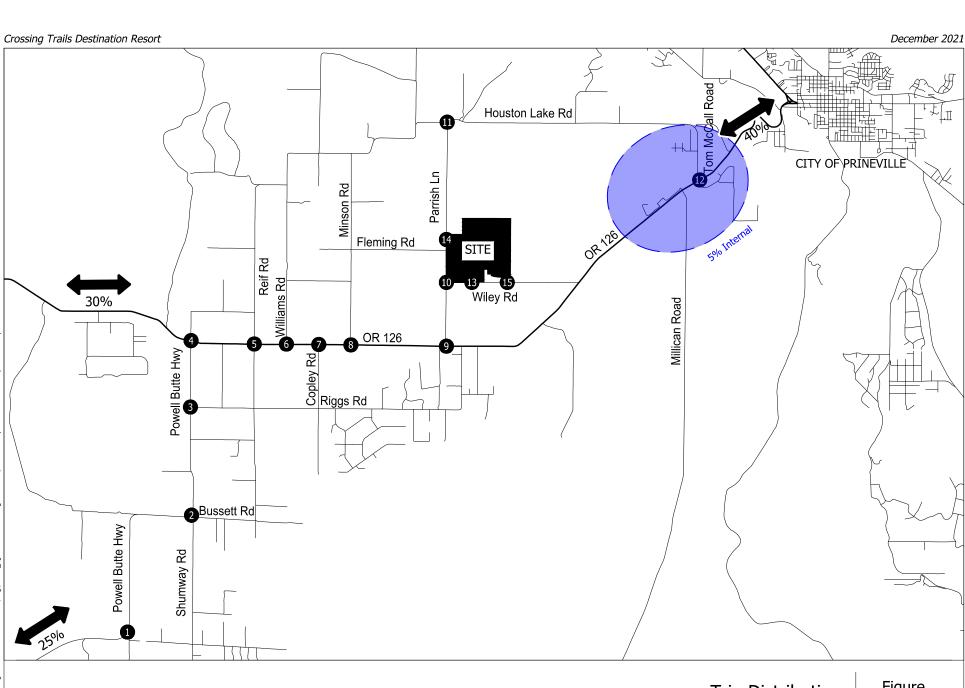
Table 8. Estimated Trip Generation

able of Estimated hip deficiation									
Land Use	ITE Code	Units	Daily	Weekday PM Peak Hour			Saturda	y Midda Hour	y Peak
				Total	In	Out	Total	ln	Out
Workforce Housing	210	100 Dwelling Units	943	94	59	35	41	21	20
Destination Resort	N/A	650 Dwelling Units	2,080	208	131	77	286	143	143
Workforce Housing Internalization (25%)			236	48	24	24	20	10	10
Total New Trips			2,787	254	166	88	307	154	153

#### TRIP DISTRIBUTION

The site generated trips are expected to distribute onto the local and regional network based on existing travel patterns. The proposed distribution is shown in Figure 9. The distribution pattern from the 2008 approved traffic study was consulted, however, the distribution shown in Figure 9 accounts for employer generators near OR126/Tom McCall intersection (i.e., Facebook, Apple, the Airport are shown as 5% internal), and travel times/patterns from out-of-town guests coming to the development from west of the Cascade Mountains.

Trip Assignment figures are shown in Figure 10 and Figure 11 for the weekday PM peak and Saturday midday peak hour, respectively. The workforce housing trips going to the destination resort are shown as accessing the resort by traveling to and from on Wiley Road.

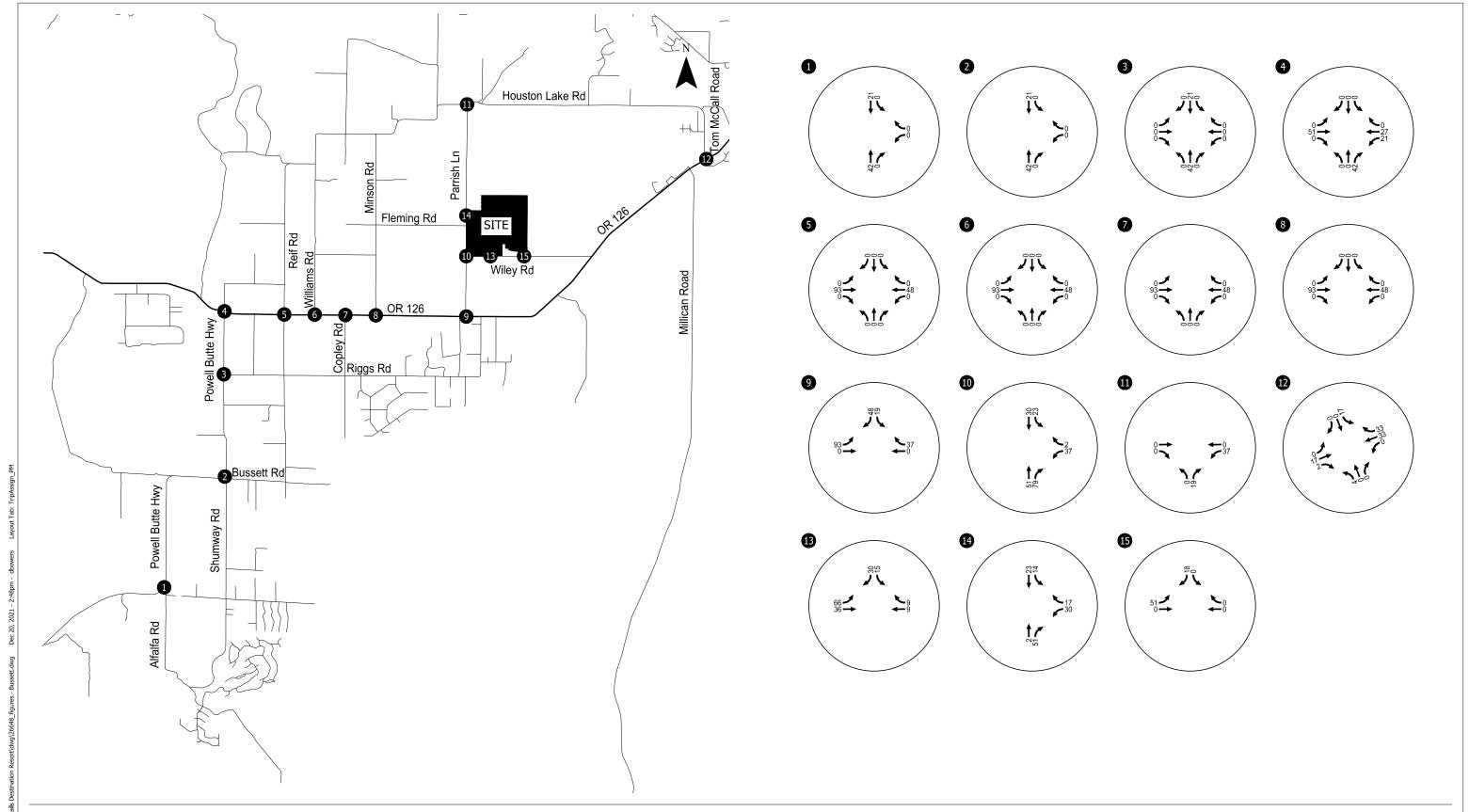


Trip Distribution Crook County, Oregon Figure 9



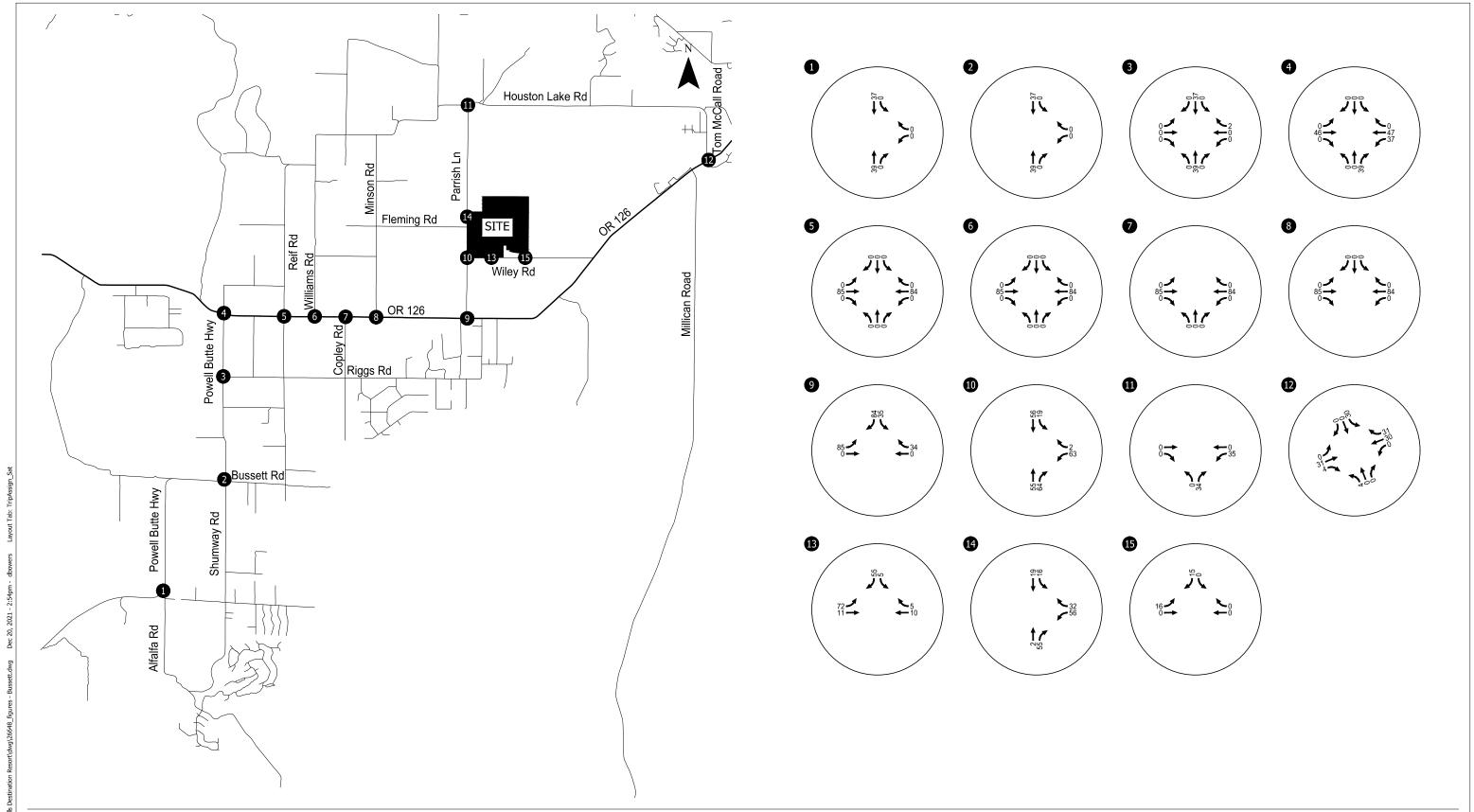
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Trip Assignment Weekday PM Peak Hour Crook County, Oregon





Trip Assignment Saturday Peak Hour Crook County, Oregon



## 2026 TOTAL TRAFFIC CONDITIONS

Total traffic volumes and operational results for the study intersections are provided in Figures 12 and 13 for the weekday PM peak hour and Saturday midday peak hour, respectively. Appendix N includes the 2026 Build-out conditions level-of-service worksheets.

The following intersections continue to exceed mobility targets in the buildout condition with the development of Crossing Trails:

- OR126/Powell Butte Highway, Weekday PM Peak Hour and Saturday Midday Peak Hour
- OR126/Tom McCall Road, Weekday PM Peak Hour
- Powell Butte Highway/Alfalfa Market Road, Weekday PM Peak Hour and Saturday Midday Peak Hour

In addition, OR126/Parrish Lane exceeds mobility targets with the site-generated trips.

#### **OR126/Powell Butte Highway**

The OR126/Powell Butte Highway intersection continues to exceed mobility targets with the site generated trips, as under background and existing conditions. The addition of the site trips increases the already exceeded v/c ratio from 1.25 to 1.30. There are 117 weekday PM peak hour trips generated from the site through the intersection. This is approximately 4% of the weekday PM peak hour total volume under 2026 total traffic conditions. A multilane roundabout with two through lanes in each direction on OR 126 and a northbound right-turn yield bypass lane would enable operations to meet the modified 0.90 v/c threshold, as is required to mitigate operations under background conditions.

#### **OR126/Tom McCall Road**

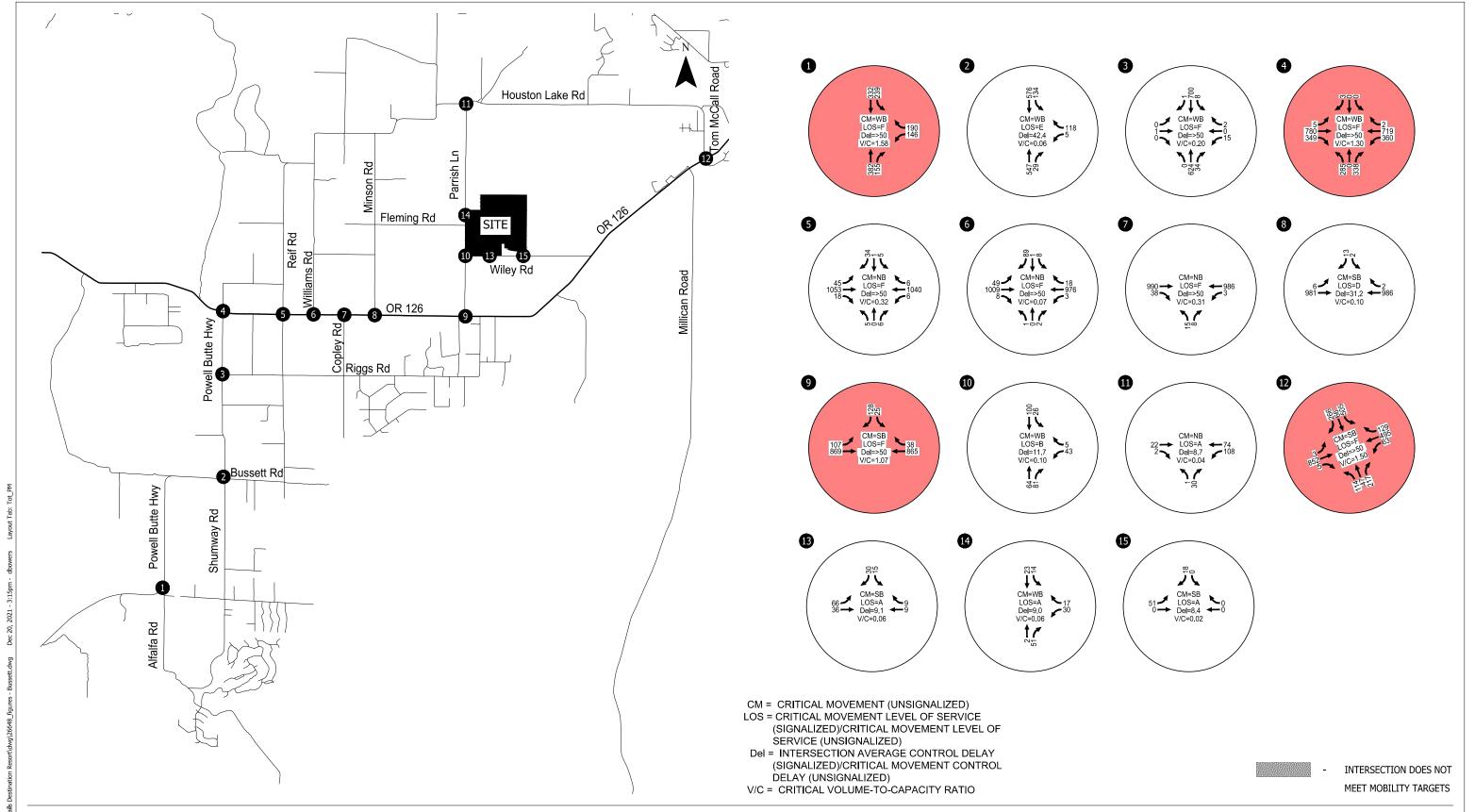
The OR126/Tom McCall Road roundabout continues to exceed mobility targets under total traffic conditions, as under existing and background conditions. The high demand on the north leg of the roundabout would require two southbound lanes – a left-turn and shared through- right to meet modified mobility targets. The demand needs are the same in the background and build-out scenario – the v/c ratio is increased from 1.42 to 1.50 with the site generated trips. There are 154 weekday PM peak hour trips generated from the site through the intersection. This is approximately 5% of the weekday PM peak hour total volume under 2026 total traffic conditions.

#### Powell Butte Highway/Alfalfa Market Road

The intersection continues to exceed mobility targets under total traffic conditions, as under background conditions. The intersection would, however, meet mobility targets with a single-lane roundabout. The demand needs are the same in the background and build-out scenario. The v/c increases from 1.41 to 1.58 with the site generated trips. There are 69 weekday PM peak hour trips generated from the site through the intersection. This is approximately 5% of the weekday PM peak hour total volume under 2026 total traffic conditions.

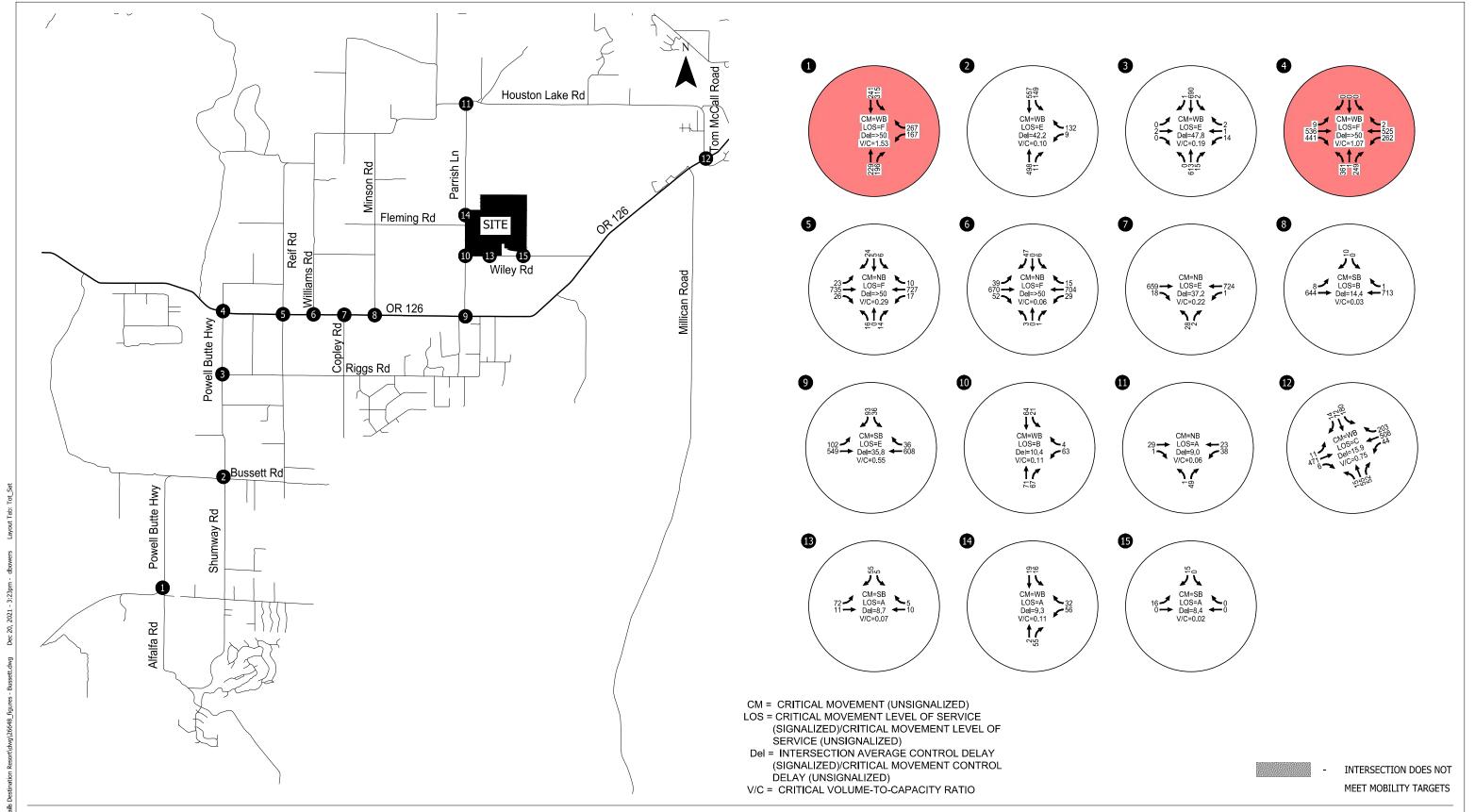
#### OR126/Parrish Lane

OR126/Parrish Lane is the primary access route to/from the development. With the addition of site generated trips, the intersection does not meet mobility targets. The eastbound left-turn demand creates capacity and potential safety concerns as a shared lane (e.g., vehicles stopping on the highway to turn left onto Parrish Lane). To improve mobility and safety, it is recommended that an eastbound left-turn lane be constructed at the intersection. In addition, a southbound left-turn lane is recommended to improve the southbound capacity and reduce queues.



Year 2026 Total Traffic Conditions Weekday PM Peak Hour Crook County, Oregon





Year 2026 Total Traffic Conditions Saturday Peak Hour Crook County, Oregon



#### **OPERATIONS SUMMARY AND MIGRATION RECOMMENDATIONS**

A summary of the off-site mitigation requirements and pro-rata calculations is shown in Table 9. This approach is consistent with Oregon Revised Statue 197.460 (4) which states: "If the site is west of the summit of the Coast Range and within 10 miles of an urban growth boundary, or if the site is east of the summit of the Coast Range and within 25 miles of an urban growth boundary, the county shall require the applicant to submit a traffic impact analysis of the proposed development that includes measures to avoid or mitigate a proportionate share of adverse effects of transportation on state highways and other transportation facilities affected by the proposed development, including transportation facilities in the county and in cities whose urban growth boundaries are within the distance specified in this subsection."

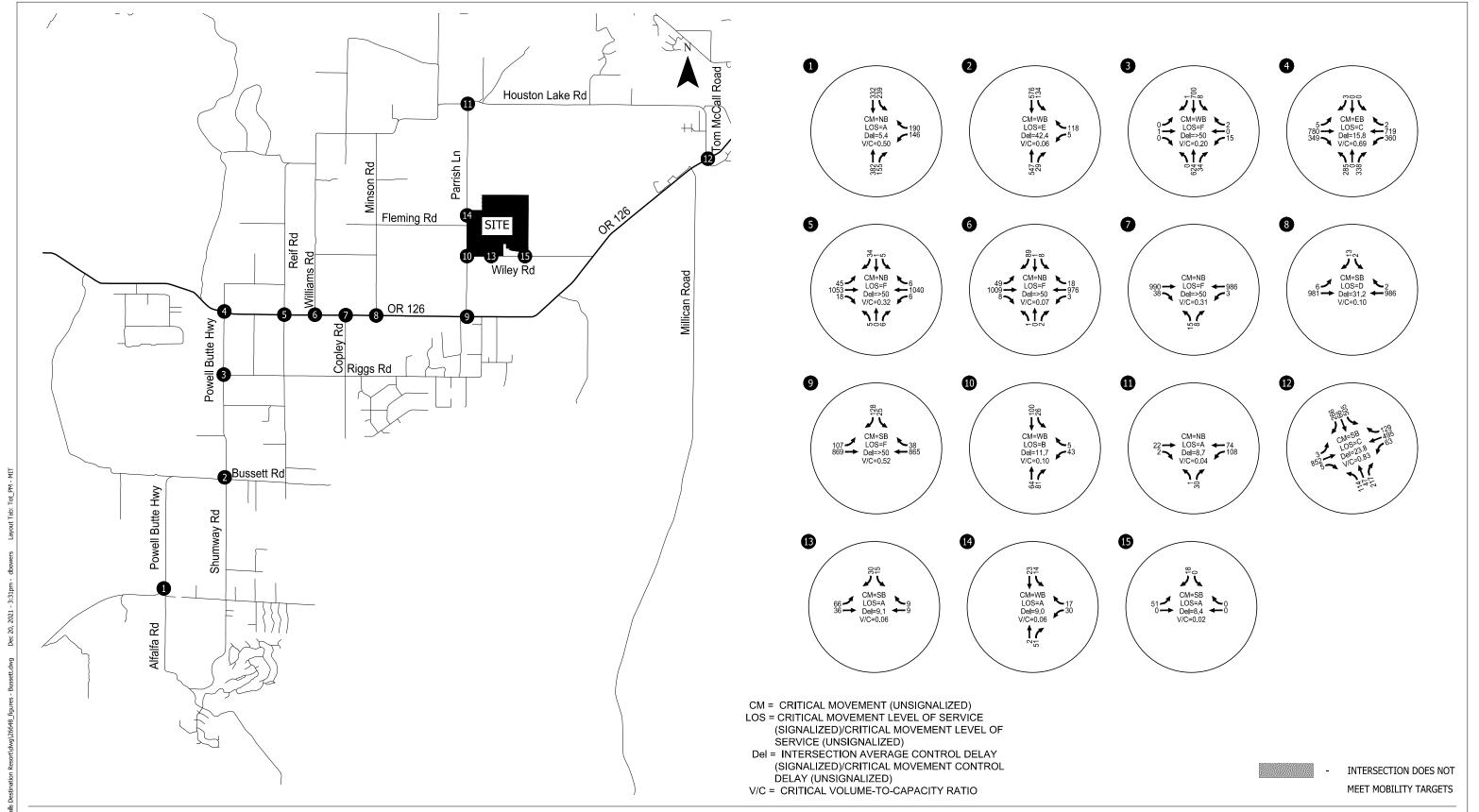
Intersections not listed meet mobility targets in the existing, background, and total traffic scenarios and therefore, no mitigation is recommended as part of this development application. Figure 14 demonstrates the operational results of the proposed mitigated improvements. The results reported show the weekday PM peak hour as it is the critical volume period. *Mitigation operational analysis result sheets are provided in Appendix O.* Cost estimates are based on average construction costs of recent similar construction projects throughout ODOT Region 4.

OR126/Parrish Lane is the primary access to the site and does not require mitigation without the proposed development. Therefore, it is recommended that the development be conditioned for the cost to construct the safety and capacity improvements for the intersection. All other intersections are minorly impacted by the site and do not directly result in intersections exceeding mobility targets but instead add trips to those that are already exceeded. Therefore, providing proportionate share contributions to those intersections is recommended.

Table 9. Summary of Conditions, Mitigation, and Proportionate Share Cost

,		J.1.5, 1111119		roportionate offare cost	
Intersection (ID)	Existing	Back- ground	Total	Recommended Mitigation and Cost	Proportional Share Impact and Cost
OR126/Powell Butte Highway (4)				Multilane Roundabout (Estimated Cost = \$3M)	4% of total volume (117 site generated trips) - \$120,000
OR126/Tom McCall Road (12)				Widen Roundabout (Estimated Cost = \$1M)	5% of total volume (154 site generated trips)- \$50,000
OR126/Parrish Lane (9)				Southbound and eastbound left turn lane (Estimate Cost = \$400K)	Construct full improvement (Conditioned on developer)
Powell Butte Highway/Alfalfa Market Road (1)				Single Lane Roundabout (Estimated Cost = \$1.5M)	5% of total volume (69 site generated trips) - \$75,000
				Total Proportionate Share Cost	\$245,000

Green Cells indicate meeting mobility targets and Red Cells indicate exceeding mobility targets



Year 2026 Total Traffic Volumes - Mitigation Weekday PM Peak Hour Crook County, Oregon



#### **DESTINATION RESORT OVERLAY COMPLIANCE**

#### 2036 Horizon Year

This traffic study is a modification to the original study completed in 2008. The horizon year for the original study was 2028 and included background traffic, surrounding destination resort forecasts, and regional growth approximately 10 years after the original proposed build out of the site (original site build out was 2018). Since then, several destination resort applications have expired or eliminated reducing the once anticipated demand on the regional network.

Table 10 provides a comparison of the available Average Daily Traffic (ADT) from the original traffic study 10 year forecast to traffic counts obtained by ODOT in 2019. While volumes along the OR126 have increased, they have not outpaced the volumes forecasted in the original traffic analysis. The 2019 ODOT ADT data is approximately half of the anticipated volumes on OR126 both with and without the Crossing Trails trips.

Table	10	OR12	N V	dume	Comp	arison
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Intersection	Forecasted 2018 ADT W/O Crossing Trails	Forecasted 2018 ADT With Crossing Trails	ODOT 2019 ADT Data
Powell Butte	20,400	22,000	12,100
Tom McCall	25,300	26,000	13,400
Reif Rd	20,000	21,700	11,800
Parrish	19,300	21,200	11,300

The Crook County Transportation System Plan (TSP) Horizon Year for future growth is 2036. The TSP, as was assumed in this analysis, used a 1.6% annual growth rate for future volumes. A sensitivity analysis was completed to compare the volumes from the TSP forecast year (2036) to the background condition (2026) with full build out of the neighboring destination resorts documented herein. The sensitivity analysis evaluated the total entering volume at Powell Butte Highway/OR126 intersection. Using the 2036 horizon year, there are estimated to be 2,500 weekday PM peak hour vehicles at the intersection compared to 2,700 weekday PM Peak hour vehicles documented in the background 2026 condition. Therefore, the volumes used for the purposes of updating the analysis are more conservative than the TSP horizon year, and as such, the operations and mitigation presented will operate at or below ODOT and County mobility targets in the horizon year 2036.

#### **Code Compliance**

Section 18.116 of the Crook County Code provides information pertaining to destination resort compliance throughout the County. The development is located within a destination overlay zone per the original traffic study. While the original study documented compliance to the code, this section demonstrates compliance to the approval criteria for the updated site plan as presented in section 18.116.100.6:

The development will not have a significant adverse impact on fish and wildlife, considering mitigation measures.

(a) The traffic study required by CCC 18.116.080(3)(g) illustrates that the proposed development will not significantly affect a transportation facility. A resort development will significantly affect a transportation facility for purposes of this approval criterion if it would, at any point within a 20-year planning period:

(i) Change the functional classification of the transportation facility;

No functional classification changes are proposed as part of this application.

(ii) Result in levels of travel or access which are inconsistent with the functional classification of the transportation facility; or

All impacts to the surrounding transportation system are compliant with the functional classification of the facilities.

(iii) Reduce the performance standards of the transportation facility below the minimum acceptable level identified in the applicable transportation system plan (TSP).

All impacts to the transportation system and proposed mitigation meet ODOT and County operational standards in the 2036 horizon year and are supported in the analysis from this report.

(b) If the traffic study required by CCC 18.116.080(3)(g) illustrates that the proposed development will significantly affect a transportation facility, the applicant for the destination resort shall assure that the development will be consistent with the identified function, capacity, and level of service of the facility through one or more of the following methods:

(i) Limiting the development to be consistent with the planned function, capacity and level of service of the transportation facility;

The size of the development has been previously approved. All proposed mitigation to the surrounding transportation system improves operations and safety or are intersections identified for improvements in other planning documents.

(ii) Providing transportation facilities adequate to support the proposed development consistent with Chapter 660 OAR, Division 12; or

No additional transportation facilities are recommended as part of this application.

(iii) Altering land use densities, design requirements or using other methods to reduce demand for automobile travel and to meet travel needs through other modes.

Land use alternations are not included in this application; however, the inclusion of workforce housing provides on-site opportunities for workers that would otherwise require use of the surrounding regional network.

(c) Where the option of providing transportation facilities is chosen in accordance with subsection (6)(b)(ii) of this section, the applicant shall be required to provide the transportation facilities to the full standards of the affected authority as a condition of approval. Timing of such improvements shall be based upon the timing of the impacts created by the development, as determined by the traffic study or the recommendations of the affected road authority.

Mitigation recommendations were presented and approved in the 2008 study. This report provided supporting mitigation strategies for intersections exceeding capacity with and without the proposed resort.



Section 6 Transportation Facilities

# TRANSPORTATION FACILITIES

#### INTERSECTION SIGHT DISTANCE

Crook County applies the minimum recommended sight distance criteria included in A *Policy on Geometric Design of Highways and Streets, 6<sup>th</sup> Edition* published by the American Association of State Highway and Transportation Officials (AASHTO) in 2018 (commonly referred to as the *Green Book*). This reference provides the recommended sight distances as measured from a height of 3.5 feet and 14.5 feet from the edge of travel way at the access point, based on the speed of the roadway.

The AASHTO reference is based on conflicts between vehicles traveling along the roadway and vehicles completing movements at the site access. Sight distance was reviewed and estimated at the proposed site access driveways, based on the available sight distance for movements on the stop-controlled approach, and is summarized in Table 11. Both Parrish Lane and Wiley Road do not currently have a posted speed limit. Under the Oregon Speed Zone Manual, the statutory speed limit on public rural highways under Crook County's jurisdiction outside of residential and business districts is 55 miles per hour.

Figures 15-20 show photographs taken at the proposed site access driveways. Landscaping, above ground utilities, and signing should be located and maintained in a manner that preserves adequate intersection sight distance.

Table 11. Sight Distance Review

Location	Direction of view	Required Sight Distance	Available Sight Distance
Site Access #1 / Wiley	Looking east	530 feet	>530 feet
Road	Looking west	610 feet	>1,000 feet
Site Access #2 / Wiley	Looking south	530 feet	>1,000 feet
Road	Looking north	610 feet	>610 feet
Parrish Lane/Site Access	Looking south	530 feet	>530 feet
#3	Looking north	610 feet	>1,000 feet



Figure 15. View from proposed Site Access #1 facing Wiley Road East; 14.5 feet from edge of curb



Figure 16. View from proposed Site Access #1 facing Wiley Road West; 14.5 feet from edge of curb



Figure 17. View from proposed Site Access #2 facing Wiley Road East; 14.5 feet from edge of curb



Figure 18. View from proposed Site Access #2 facing Wiley Road West; 14.5 feet from edge of curb



Figure 19. View from proposed Site Access #3 facing Parrish Lane South; 14.5 feet from edge of curb



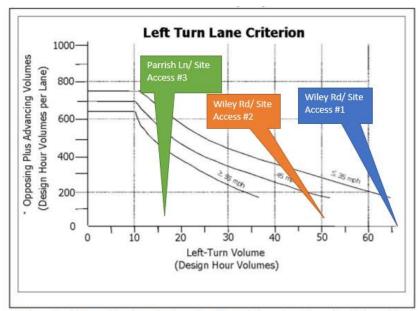
Figure 20. View from proposed Site Access #3 facing Parrish Lane North; 14.5 feet from edge of curb

#### TURN LANE WARRANT

Section 5h in the Crook County Development Code requires the analysis for turn lanes at the site access driveways. Turn lane warrant criterion from the ODOT APM Chapter 12 – Unsignalized Intersection Analysis was used to determine whether turn lanes from the mainline to the minor street would be necessary to improve both capacity and safety for oncoming and turning vehicles.

#### Site Access Review

The site has three proposed access locations – two on Wiley Road and one on Parrish Lane. ODOT's left turn lane criterion was used to determine whether left turn lanes into the site should be considered. Figure 21 shows the graph of the intersection 2026 weekday PM peak build-out volumes. As shown, the volumes on both Wiley Road and Parrish Lane are not high enough to warrant turn lanes. While turning volumes may exceed 50 vehicles, the low through volumes should allow ample time for vehicles to complete turning movements.



<sup>\*(</sup>Advancing Volume/Number of Advancing Through Lanes) + (Opposing Volume/Number of Opposing Through Lanes)

Figure 21. Left Turn Lane Criterion for Site Access Driveways

Opposing left turns are not counted as opposing volumes



Section 7 Findings and Recommendations

# FINDINGS AND RECOMMENDATIONS

The following findings summarize the changes to the site plan and environment since the original Crossing Trails Traffic Study and the key findings from the transportation analysis:

- The proposed site plan has been modified from the originally approved traditional destination resort to an affordable, family friendly, outdoor living experience. The resort includes recreational activities and open space for guests and full-time occupants, workforce housing for employees on the resort and within the surrounding community, upscale manufactured homes/cabins, and overnight villas and resort rentals.
- Several planning documents have been completed or updated since the original approval of the site including the Crook County and Prineville Transportation System Plans and the OR Highway 126 Corridor Facility Plan. These documents no longer recommend grade separated interchanges at key intersections such as OR126/Tom McCall Road and OR126/Powell Butte Highway, but instead recommend at-grade improvements such as roundabouts.
- A traffic study for a destination resort at this site was completed in 2008 with a similar dwelling unit count but different site plan. The anticipated volumes on OR126 are lower than anticipated in the 2008 traffic study, therefore reducing the study area from the original study.
- The site is anticipated to generate 3,567 total daily trips, 278 weekday PM peak hour trips and 317 Saturday midday peak hour trips.
- None of the study intersections exceeded 90<sup>th</sup> percentile crash rates, critical crash rates, or were identified on the Statewide Priority Index System for the review period of 2015-2019.
- Two study intersections are expected to exceed mobility targets in the existing condition: OR126/Powell Butte Highway and OR126/Tom McCall Road.
- The neighboring developing/approved destination resort vested trips were included in the background conditions analysis. Powell Butte/Alfalfa Market Road is not expected to meet mobility targets in the 2026 background condition.
- OR126/Parrish Lane is the primary access to the development and is expected to exceed mobility targets in the 2026 build-out condition.
- Clear sight lines are provided at all anticipated site access locations.
- This report complies with the Crook County Destination Resort Overlay Code Requirements as presented in section 18.116.100.6 for the 20-year horizon year.

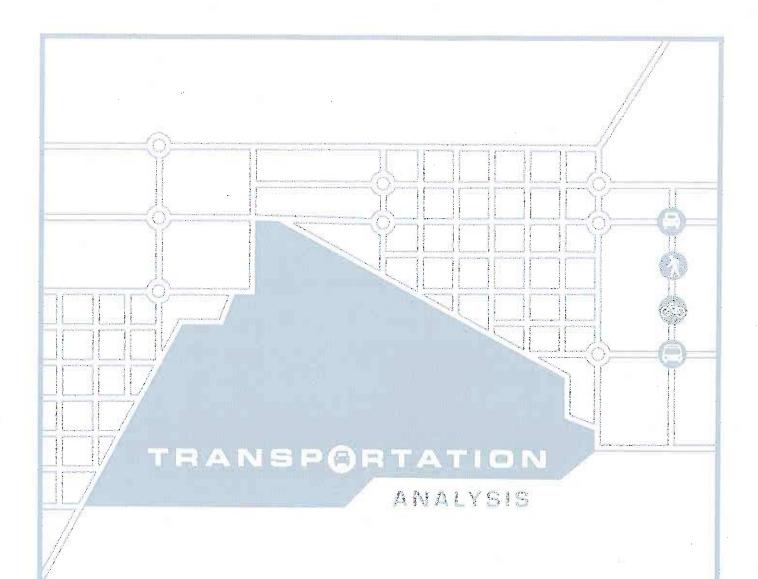
Upon review of the findings above, key recommendations to support the surrounding transportation infrastructure include:

- Construct eastbound and southbound left turn lanes at OR126/Parrish Lane the primary access to the development.
- Participate proportionally to completing the following off-site improvements to mitigate impacts to the state and county system:
  - Hidden Canyon shall construct a multilane roundabout at OR126/Powell Butte Highway to include two lanes in the eastbound and westbound directions and a northbound right turn yield bypass lane.
  - ODOT/The City of Prineville shall consider widening the OR126/Tom McCall Road roundabout.
     Based on current and projected volumes, two lanes may be required for the eastbound and southbound approaches along with a northbound right turn yield bypass lane.
  - Crook County shall construct a single lane roundabout at Powell Butte Highway/Alfalfa Road as
    this is a primary route for both Brasada Rach and Hidden Canyon and is impacted by site trips to
    and from Bend.
- Contribute the following pro-rata shares to offset the impacts to the regional network comparable to the level of impact, including:

- OR126/Powell Butte Highway: 4%, \$120,000
- OR126/Tom McCall Road: 5%, \$50,000
- Powell Butte Highway/Alfalfa Market Road: 5%, \$75,000

The total pro-rata payment is equal to \$275,000.

# APPENDIX A – FERGUSON AND ASSOCIATES, 2008 ORIGINAL CROSSING TRAILS TRANSPORTATION IMPACT ANALYSIS



**Project**: Seven Peak Resort

Location: Parrish Lane – Powell Butte, Oregon

Client: Powell Butte LLC
Date: July 2, 2007





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## **EXECUTIVE SUMMARY**

This study addresses the traffic impacts of a proposed destination resort, Seven Peaks that would include up to 735 units. The 735 units would include 490 single family dwelling units and 245 rental units. The 245 rental units include 101 Golf Casitas and 48 townhouses (each with three rental units). The resort is expected to be built in nine phases with completion of phase nine occurring by the year 2018. The application is for a destination resort which in Crook County requires an approval of a Destination Resort Overlay Zone. As such, this traffic study addresses both the requirements of Section 7.1.7 Transportation Impact Analysis Requirements plus a 20-year analysis.

To meet the first of these requirements, this study focuses on p.m. peak hour and Saturday peak hour traffic operations at the site access and nearby higher-order (collector and arterial streets) intersections. This near-term analysis was conducted for the years 2008 and 2018 for conditions with and without the proposed project. To meet the requirements of the TPR, traffic conditions were examined for a 20-year horizon. The 20-year analysis involved comparing relative traffic conditions between the proposed project scenario and a reasonable-worst case scenario under the existing zoning.

#### STUDY AREA

The site for the proposed development is a total of 580 acres and is located in Powell Butte, north of Highway 126, east of Parrish Lane, as shown in Figure 1. The following intersections were included in the study area:

- Powell Butte Highway & Alfalfa Road;
- Powell Butte Highway & Shumway/Bussett Roads;
- Powell Butte Highway & Riggs Road;
- Powell Butte Highway & Highway 126;
- Veterans Way & Highway 126;
- Reif Road & Highway 126;
- Minson Road & Highway 126;
- Parrish Lane & Highway 126;
- Stillman (Riggs) Road & Highway 126;
- Highway 126 & Wiley Road;
- Millican Road & Highway 126;
- Tom McCall Road & Highway 126;
- Highway 26 & Highway 126;
- Parrish Lane & Wiley Road; and
- Parrish Lane & Site Access.

#### **FINDINGS AND CONCLUSIONS**

The proposed Seven Peaks Resort would have up to 735 units. At build-out the resort was forecast to generate 235 p.m. peak hour trips, 325 Saturday peak hour trips and 2,352 daily trips.

There were ten study intersections that were forecast to exceed Crook County operation standards or ODOT mobility standards in at least one of the analysis years included in this report, as summarized in Table E-1.

TABLE E-1 - INTERSECTION FORECAST TO NOT MEET OPERATION STANDARDS

		SCENARIO	STANDARD MET?			
Intersection	STANDARD	(with all Pending Area development)	2008	2018	2028	
Powell Butte Highway and	Both	no Project	No	No	No	
Highway 126		with Project	No	No	No	
Tom McCall Road and	Both	no Project	No	No	No	
Highway 126	Bolli	with Project	No	No	No	
Highway 126 and Highway	Both	no Project	No	No	No	
26 – SB	BOIN	with Project	No	No	No	
Millican Road and Highway	Both	no Project	No	No	No	
126		with Project	No	No	No	
Highway 126 and Highway	Both	no Project	No	No	No	
26 – NB		with Project	No	No	No	
Veterans Way and Highway	Both	no Project	No	No	No	
126		with Project	No	No	No	
Highway 126 and	Both	no Project	Yes	Yes	Yes	
Wiley Road		with Project	Yes	No	No	
Powell Butte Highway and	Crook County	no Project	Yes	No	No	
Alfalfa Road		with Project	Yes	No	No	
Reif Road and	Both	no Project	Yes	Yes	No	
Highway 126		with Project	Yes	Yes	No	
Stillman Road and Highway	D - al-	no Project	Yes	Yes	No	
126	Both	with Project	Yes	Yes	No	

The mitigation for each of the intersections impacted by trips from the proposed Seven Peaks Resort is summarized in Table E-2.

TABLE E-2 - INTERSECTION MITIGATION

INTERSECTION MITIGATION COMMENTS				
		Interchange is listed in the Crook County TSP.		
Powell Butte		It would be needed sometime before all of the		
Highway and	Interchange	approved and pending development is built.		
Highway 126		The proposed Seven Peaks Resort does not		
		cause the need for the improvement		
		Interchange is listed in the Crook County TSP.  It would be needed sometime before all of the		
Tom McCall Road	Interchange			
and Highway 126	merchange	approved and pending development is built. The proposed Seven Peaks Resort does not		
		cause the need for the improvement		
		Interchange is listed in the Crook County TSP.		
		It would be needed sometime before all of the		
Millican Road and	Interchange	approved and pending development is built.		
Highway 126	J	The proposed Seven Peaks Resort does not		
		cause the need for the improvement		
		The intersection would meet the peak hour		
		traffic signal warrant in the year 2008 for		
Veterans Way and	Traffic Signal	conditions with the approved and pending in-		
Highway 126	i i ame oignar	process development but without the proposed		
		project. The City of Redmond TSP lists a traffic		
		signal at this location.		
		The intersection is planned to be closed when		
		Highway 126 is widened to four lanes. Until such time that the intersection is closed, turns		
		could be restricted to right-in, right-out. A turn		
Highway 126 and	Restrict Turns	restriction at Wiley Road would likely increase		
Wiley Road	Tree Terris	the number of turns at Tom McCall Road. The		
•		planned interchange at that intersection could		
		be designed to accommodate the additional		
		traffic.		
<del></del>		No improvement listed in the Crook County		
	·	TSP. The peak hour traffic signal warrant		
Powell Butte Highway	Interchange	would be met in the year 2018 for conditions		
and Alfalfa Road		without the proposed project. A traffic signal		
		would not be a desirable improvement at this		
	,	location due to its rural nature.		
		The intersection would not meet operation		
		standards in the year 2028. The intersection would not meet the peak hour traffic signal		
Reif Road and	Restrict Turns	warrant at that time. Turns could be restricted		
Highway 126		and an east-west connection to the planned		
		Powell Butte Highway interchange could be		
		provided.		

Existing operations are not nearly as congested as indicated by what is shown in a 2008 analysis. The reason for this is that 2008 forecasts include 10 or more

year's growth from already approved projects. While this is not a universal approach to forecasting traffic, ODOT prefers to include the build-out traffic of other projects even if these projects will not be built and occupied for 10 or more years. The philosophy behind this approach is that approved projects (in-effect) "reserved" available capacity over the next 10 years or so by virtue of being an early applicant. The reality, however, is that the failures identified will not occur until sometime beyond 2008 in most cases. Rather than providing speculative analysis to determine when improvements need to be constructed, the following guidance is suggested. In the case of interchanges, the planning and construction can take some time. A 3 to 5 year minimum lead time is anticipated to address all planning requirements, secure ROW and funding, and then to engineer and construct the interchanges; thus, with a 10-year build out for the approved/planning destination resorts in would be prudent to begin this process within the next five years. For traffic signal needs, it is suggested that traffic flow be monitored and that the signal not be constructed until such time that traffic signal warrants are met.

The AASHTO guidelines for intersection sight distance and stopping sight distance would be met at the site access intersection off Parrish Lane and at the two locations were the site generated traffic would enter the highway system.

The guideline for adding a left-turn lane would be met at each intersection with Highway 126 under existing conditions (counted traffic only).

## INTRODUCTION

This study addresses the traffic impacts of a proposed destination resort, Seven Peaks. The proposed resort would include up to 735 units. The 735 units would include 490 single family dwelling units and 245 rental units. The 245 rental units include 101 Golf Casitas and 48 townhouses (each with three rental units). The resort is expected to be built in nine phases with completion of phase nine occurring by the year 2018. The application is for a destination resort which in Crook County requires approval of a Destination Resort Overlay zone. The Destination Resort Overlay zone requires that a 20-year analysis be prepared. As such, this traffic study addresses both the requirements of Crook County Transportation Systems Plan (TSP) Section 7.1.7 Transportation Impact Analysis Requirements plus a 20-year analysis.

To meet the first of these requirements, this study focuses on p.m. peak hour and Saturday peak hour traffic operations at the site access and nearby higher-order (collector and arterial streets) intersections. This near-term analysis was conducted for the years 2008 and 2018 for conditions with and without the proposed project. To meet the requirements of the Destination Resort Overlay Zone, traffic conditions were examined for a 20-year horizon. The 20-year analysis involved comparing relative traffic conditions between the proposed project scenario and a reasonable-worst case scenario under the existing zoning.

#### **PURPOSE AND OBJECTIVES**

This study has been performed for submission to Crook County and is based on the requirements of Crook County TSP Section 7.1.7 Transportation Impact Analysis Requirements and input from ODOT, Crook County staffand their consultants. The policy provides a general guide on transportation study requirements. One purpose of the policy is to provide a means of identifying significant off-site impacts as well as less significant and longer-range traffic operational conditions for the purpose of planning (programming and prioritizing) future street improvements. The Transportation Impact Analysis Requirements apply to new development and expansions of existing development going through the County's land use approval process. Requirements for approval of the Destination Resort Overlay Zone were also addressed.

#### PROPOSED DEVELOPMENT

The proposed project would include up to 490 single family residential units and up to 245 rental units for a total of 735 units. The proposed project would be

completed in nine phases with completion of phase nine expected by the year 2018.

#### SITE LOCATION AND STUDY AREA

The site for the proposed development is a total of 580 acres and is located in Powell Butte, north of Highway 126, east of Parrish Lane, as shown in Figure 1. The Transportation Impact Analysis Policy requires that the study area include, at a minimum, all site access points and intersections (signalized and unsignalized) adjacent to the proposed site. Beyond the minimum study area, the transportation impact analysis shall evaluate all intersections that received site generated trips that comprise at least 10 percent or more of the total intersection volume. In addition, the County Roadmaster or her designee shall determine any additional intersections.

As such per correspondence with County staff and ODOT staff, the following intersections were included in the study area:

- Powell Butte Highway & Alfalfa Road;
- Powell Butte Highway & Shumway/Bussett Roads;
- Powell Butte Highway & Riggs Road;
- Powell Butte Highway & Highway 126;
- Veterans Way & Highway 126;
- Reif Road & Highway 126;
- Minson Road & Highway 126;
- Parrish Lane & Highway 126;
- Stillman (Riggs) Road & Highway 126;
- Highway 126 & Wiley Road;
- Millican Road & Highway 126;
- Tom McCall Road & Highway 126;
- Highway 26 & Highway 126;
- Parrish Lane & Wiley Road; and
- Parrish Lane & Site Access.

#### PROJECT PHASING AND LAND USE ASSUMPTIONS

The proposed project was assumed to be completed in nine phases with completion of the final phase by the year 2018.

#### SITE ACCESS

The site would be accessed off Parrish Lane, as shown in Figure 2. There will also be an emergency office located off Wiley Road.

Figure 1 – Site Location

Figure 2 – Site Plan

## AREA CONDITIONS

The characteristics of the surrounding street network, existing uses, and current zoning are presented in this section. Transportation Impact Analysis Policy requires that nearby development that has been approved by the County but is not currently constructed and occupied, be considered in a traffic operations analysis. This approved area development is also presented in this section. Finally, relevant policies and plans for future street improvements in the vicinity of the proposed project are discussed.

#### **EXISTING LAND USES**

The site does not have any structures located on it.

#### **EXISTING ZONING**

The 580 acre site is currently zoned EFU- 3: Exclusive Farm Use (Powell Butte Area). The proposed zoning would include a Destination Resort Overlay zone.

#### EXISTING STREET NETWORK

This report analyzes traffic impacts on Powell Butte Highway, Alfalfa Road, Shumway Road, Bussett Road, Riggs Road, Highway 126, Veterans Way, Reif Road, Minson Road, Parrish Lane, Stillman (Riggs) Road, Wiley Road, Millican Road, Tom McCall and Highway 26. See Table 1 for existing street characteristics. Existing lane configurations and intersection controls at the study intersections are illustrated in Figure 3.



TABLE 1 - STREET CHARACTERISTICS

STREET	CLASS	LANES	POSTED SPEED (MPH)	Curbs	SIDE- WALKS	BIKE LANE	ON STREET PARKING
Powell Butte Highway	Minor Arterial	2/3	45/55	No	No	No	No
Alfalfa Road	Major Collector	2	Not Posted	No	No	No	No
Shumway Road	Major Collector	2	Not Posted	No	No	No	No
Bussett Road	County Road	2	Not Posted	No	No	No	No
Riggs Road	Major Collector	2	Not Posted	No	No	No	No
Highway 126	State Highway	2/3	55/45	No	No	No	No
Veterans Way	Minor Arterial	2	45	No	No	No	No
Reif Road	Major Collector	2	Not Posted	No	No	No	No
Minson Road	Minor Collector	2	Not Posted	No	No	No	No
Parrish Lane	County Road	2	Not Posted	No	No	No	No
Stillman Road	Major Collector	2	Not Posted	No	No	No	No
Wiley Road	County Road	2	Not Posted	No	No	No	No
Millican Road	Major Collector	2	Not Posted	No	No	No	No
Tom McCall Road	Major Collector	2	45	No	No	No	No
Highway 26	State Highway	4	45	Partial	Partial	No	Partial

### **EXISTING TRAFFIC FLOW AND CONDITIONS**

Traffic counts were conducted at the study intersections in 15 minute intervals between 4:00 p.m. and 6:00 p.m. As per correspondence with County staff and ODOT staff, there are two time periods to be analyzed for this study: the weekday p.m. peak hour and the Saturday peak hour. The weekday p.m. peak hour flow is defined as the highest one-hour of traffic flow between 4:00 p.m. and 6:00 p.m. The Saturday peak hour flow is defined as the highest one-hour of traffic flow between 12:00 p.m. and 4:00 p.m.

**PM Peak Hour** - The p.m. peak hour existing traffic flows were conducted over the last twelve months by Matchless Data, Inc. and by Quality Counts. The

intersection count summaries can be found in Appendix A. Since the counts were conducted over the last twelve month during different months, the counts were factored up and balanced (as appropriate) to create a June 2007 existing traffic flow. The calculations can be found in Appendix A. The year 2007 p.m. peak hour traffic flow is shown in Figure 4. The traffic flow shown in Figure 4 does not include trips expected to be generated by approved projects in the area or any adjustment for peak month flows.

**Saturday Peak Hour** - The Saturday peak hour existing traffic flows were conducted in June 2007. The Saturday peak hour traffic flow is shown in Figure 5. The traffic flow shown in Figure 5 also does not include trips expected to be generated by approved projects in the area or any adjustment for peak month flows.

#### **IN-PROCESS DEVELOPMENT**

The study considered a number of other development projects which are constructed but not fully occupied, currently under construction, approved, or planned. A list of approved and pending developments was compiled. Considering the large size of some of the approved and pending developments, two in-process development scenarios were created: approved developments only and all pending developments (which includes all approved development). For each year and each time-period there is a scenario with approved development only and a scenario with pending development (which includes all approved development). Trip generation data and traffic assignments for each project can be found in Appendix B.

**Approved Development** – Developments shown in Table 2 were identified by Crook County as approved developments. Traffic forecast to be generated by each development was added to the approved area development only scenarios. In order to obtain a conservative (high) forecast of traffic conditions all of the trips forecast from the approved development were added at each intersection. The p.m. peak hour trips forecast to be generated by the approved development is illustrated in Figure 6.

TABLE 2 - APPROVED DEVELOPMENT ONLY

I ADEL &	WELVOAED DEAFFOLISEM! OME!			
No.	Name of Development	TOTAL PM PEAK HOUR FORECAST	Percent Developed	REMAINING TRIPS*
]	Iron Horse	2,290	0	2,290
2	Anglers Canyon	1480	0	1,480
3	Pronghorn	305	0	305
4	Remington Ranch	410	0	410
5	Brasada Ranch	450	0	450
TOTAL		4,935		4,935

Notes: \*The remaining trips have been added to the p.m. peak hour traffic flows.

Figure 4 – Year 2007 PM Peak Hour Traffic Flow





Data collected in Central Oregon on trip generation rates of destination resorts, has shown that the resorts tend to generate more trip on Saturdays than during the p.m. peak hour. The developments considered in this report did not include a Saturday peak hour analysis scenario therefore the trips forecast to be generated by the p.m. peak hour were factored to forecast trip generation on Saturday afternoons. Calculations can be found in Appendix B. The Saturday peak hour trips forecast to be generated by the approved development is illustrated in Figure 7.

**Pending Development** – Developments shown in Table 3 were identified by Crook County as pending developments, some have been approved, as shown above, and others have not been approved but are likely to be approved before the proposed Seven Peaks Resort is fully constructed. In order to obtain a conservative (high) forecast of traffic conditions all of the trips forecast from the approved development were added at each intersection. The trips forecast to be generated by the pending development (which includes all of the approved development) is illustrated in Figure 8.

As noted above, a factor was applied to the p.m. peak hour trip generation of the pending projects to account for Saturday afternoon trip generation. Calculations can be found in Appendix B. The Saturday peak hour trips forecast to be generated by the approved development is illustrated in Figure 9.

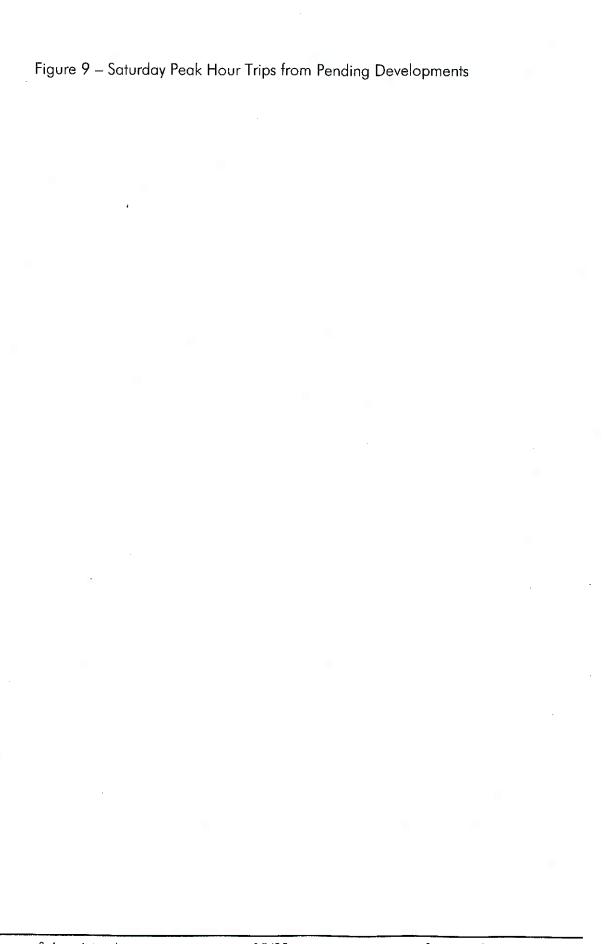
TABLE 3 - PENDING & APPROVED DEVELOPMENT

No.	NAME OF DEVELOPMENT	Total PM Peak Hour Forecast	PERCENT DEVELOPED	REMAINING TRIPS*
1	Iron Horse	2,290	0	2,290
2	Anglers Canyon	1480	0	1480
3	Rivergate Resort	175	0	175
4	Pronghorn	305	0	305
5	Hidden Canyon	1215	0	1215
6	Remington Ranch	410	0	410
7	Brasada Ranch	450	0	450
TOTAL		6,325		6,325

Notes: \*The remaining trips have been added to the p.m. peak hour traffic flows.







#### COMMITTED OR PLANNED STREET IMPROVEMENTS

The Crook County Transportation System Plan (TSP) defines the long term (20-year) transportation network. The Capital Improvement Plan (CIP) lists the projects planned and funded for the next five years. A list of planned and funded near-term transportation improvements was requested from Crook County. Since no response was received, this study assumed the existing transportation network for all analysis years.

## LOCAL AND STATE PROGRAMS, POLICIES, AND REGULATIONS

There are adopted Transportation Plans and policies that regulate transportation facilities in Crook County and that apply to the portions of the transportation system evaluated in this study: Crook County Transportation System Plan, the Oregon Highway Plan, and ODOT Development Review Guidelines.

The Crook County Transportation System Plan (TSP) - is the long range planning document that sets out the future roadway network and standards for new streets and for retrofitting existing streets. It is required that new local streets, when constructed, must include sidewalks and new major collector and major/minor arterials must include sidewalks and bike lanes. The City may require right-of-way dedication to make necessary improvements. Also included in the Crook County TSP are the requirements for Transportation Impact Analysis studies (section 7.1.7). This section of the TSP sets the criteria used to review traffic impact studies (see Appendix C) and defines the minimum requirements for a traffic study for a new development or a zone change and the Level of Service Policy.

**The ODOT Highway Plan** - sets the acceptable mobility standards for all state highways and streets. When the mobility standard is not met, ODOT typically requests that the developer provide mitigation that would improve traffic conditions to what they would be without the project. The Crook County has the authority in land use decisions such as building approvals and in this type of land use action ODOT's role is that of a commenting agency. ODOT has authority over access to its state highway system. When it comes to a question of access to the state highway, ODOT has the final decision authority.

**The ODOT Development Review Guidelines** - set the criteria used to review traffic impact studies and defines the minimum requirements for a traffic study for a new development or a zone change. The guidelines can be found in Appendix D.

## TRAFFIC FORECAST

The analysis scenarios were selected in consultation with County staff and ODOT staff, modified to eliminate analysis scenarios that would not contribute to the understanding of traffic operations. As such, the analysis time periods were limited to the peak of the roadway and the peak of the resort. An a.m. peak hour analysis was not conducted since recent counts have shown that a.m. peak hour on Highway 126 to be slightly lower than the commuter peak; plus, the trip generation for destination resorts is about 15 percent lower during the a.m. peak than the p.m. peak hour. Likewise, while the resort peaks on Saturday, the traffic flow on the highway system in this area is significantly lower than during the commuter peak. For this reason, only the entry point to the transportation system were considered on Saturday (these are the locations were the impact of the project would be greatest).

Since the proposed project is projected to be built in multiple phases, County and ODOT staff suggested an analysis for each phase plus a 20-year forecast. Since a multi-phased project would require a significant number of scenarios to be analyzed, this process was simplified. The analysis was limited to three horizon years: current conditions, the year of project build-out and a 20-year forecast for the Destination Resort Overlay Zone. The following scenarios were analyzed:

- Current year traffic conditions with in-process development (Year 2008 without Project);
- Current year traffic conditions with in-process development and the proposed project (Year 2008 with project);
- Traffic conditions after the completion of the project without the proposed project (Year 2018 without Project);
- Traffic conditions after completion of the project with the proposed project Year 2018 with Project);
- Traffic conditions in 20-year horizon under existing zoning (Year 2028 without Project includes build-out of the existing zoning); and,
- Traffic conditions in 20-year horizon with proposed destination resort (Year 2028 with Project).

Each horizon year includes two in-process development scenarios: with approved development only and with pending and approved development; and an appropriate growth factor. The section concludes with a table showing the percentage increase in traffic at the study intersections due to the proposed development.

#### TRAFFIC FLOW FORECAST WITHOUT PROJECT

Traffic flow was forecast for the study-year horizons without the addition of traffic from the proposed development. The purpose of the no-project scenarios is to allow one to compare the operational characteristics between a with-project and a no-project scenario so that the relative impacts of the proposed project may be understood. Calculations for the p.m. peak hour and the Saturday hour traffic volumes can be found in Appendix E.

**PM Peak Hour** — As stated above, the p.m. peak hour is the highest one-hour of traffic flow between the hours of 4 p.m. and 6 p.m. on the average weekday. Traffic is forecast for each year for the two in-process development scenarios are discussed below.

Year 2008 Flow without Project Forecast with Approved Development - Year 2008 traffic flow without the project, as illustrated in Figure 10, was forecast by factoring up the June 2007 volumes by 2.4 percent annual growth rate and then applying the peak month factor of 4.4 percent for Highway 126 and adding the p.m. peak hour trips forecast to be generated by the approved development.

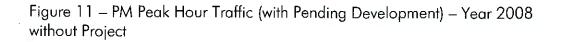
The growth rate for Highway 126 was calculated using traffic volumes published by ODOT for the year 2005 and the year 2025. These two years were used because 2026 forecast volumes are not yet published. Growth rate calculations can be found in Appendix F.

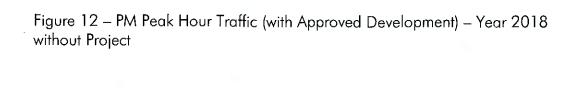
The peak month or seasonal adjustment factor of 4.4 percent was calculated using the Trend Summary data published by ODOT for ATR 07-001, located to the east of Prineville on Highway 26. Since all of the counted volumes were adjusted to June, the seasonal adjustment from June to July was used. Calculations for determining the seasonal adjustment factor can also be found in Appendix F.

Year 2008 Flow without Project Forecast with Pending Development - Year 2008 traffic flow without the project, as illustrated in Figure 11, was forecast by factoring up the June 2007 volumes by 2.4 percent and then applying the peak month factor of 4.4 percent for Highway 126 and adding the p.m. peak hour trips forecast to be generated by the pending development.

Year 2018 Flow without Project Forecast with Approved Development-Year 2018 traffic flow without the project, as illustrated in Figure 12, was forecast by factoring the June 2007 volumes up by 2.4 percent per year (for 11 years, 29.8 percent) and then applying the seasonal adjustment







factor, 4.4 percent and adding the p.m. peak hour trips forecast to be generated by the approved development.

Year 2018 Flow without Project Forecast with Pending Development - Year 2018 traffic flow without the project, as illustrated in Figure 13, was forecast by factoring the June 2007 volumes up by 2.4 percent per year (for 11 years, 29.8 percent) and then applying the seasonal adjustment factor, 4.4 percent and adding the p.m. peak hour trips forecast to be generated by the pending development.

Year 2028 Flow without Project Forecast with Approved Development - Year 2028 traffic flow without the project, as illustrated in Figure 14, was forecast by factoring the June 2007 volumes up by 2.4 percent per year (for 21 years, 64.5 percent) and then applying the seasonal adjustment factor, 4.4 percent and adding the p.m. peak hour trips forecast to be generated by the approved development. The Crook County TSP assumed that the parcel for the proposed development was zoned EFU-3 therefore it was assumed the that 2028 forecast traffic volumes include trips expected to be generated by build-out of the parcel.

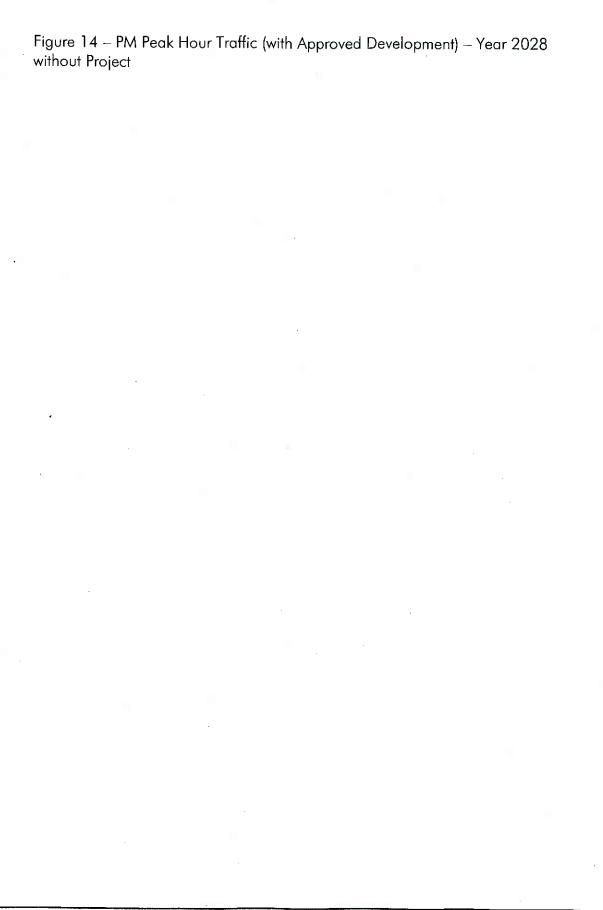
Year 2028 Flow without Project Forecast with Pending Development - Year 2028 traffic flow without the project, as illustrated in Figure 15, was forecast by factoring the June 2007 volumes up by 2.4 percent per year (for 21 years, 64.5 percent) and then applying the seasonal adjustment factor, 4.4 percent and adding the p.m. peak hour trips forecast to be generated by the pending development. The Crook County TSP assumed that the parcel for the proposed development was zoned EFU-3 therefore it was assumed the that 2028 forecast traffic volumes include trips expected to be generated by build-out of the parcel.

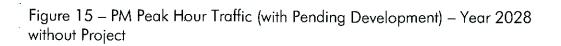
**Saturday Peak Hour** – The Saturday peak hour occurs sometime between the hours of 12 p.m. and 4 p.m. Traffic forecast for each year for the two in-process development scenarios are discussed below

Year 2008 Flow without Project Forecast with Approved Development - Year 2008 traffic flow without the project, as illustrated in Figure 16, was forecast by factoring up the June 2007 volumes by 2.4 percent and then applying the peak month factor of 4.4 percent for Highway 126 and adding the Saturday peak hour trips forecast to be generated by the approved development.

Year 2008 Flow without Project Forecast with Pending Development - Year 2008 traffic flow without the project, as illustrated in Figure 17, was forecast by factoring up the June 2007 volumes by 2.4 percent and then applying the peak month factor of 4.4 percent for Highway 126 and

Figure 13 – PM Peak Hour Traffic (with Pending Development) – Year 2018 without Project









adding the Saturday peak hour trips forecast to be generated by the pending development.

Year 2018 Flow without Project Forecast with Approved Development-Year 2018 traffic flow without the project, as illustrated in Figure 18, was forecast by factoring the June 2007 volumes up by 2.4 percent per year (for 11 years, 29.8 percent) and then applying the seasonal adjustment factor, 4.4 percent and adding the Saturday peak hour trips forecast to be generated by the approved development.

Year 2018 Flow without Project Forecast with Pending Development - Year 2018 traffic flow without the project, as illustrated in Figure 19, was forecast by factoring the June 2007 volumes up by 2.4 percent per year (for 11 years, 29.8 percent) and then applying the seasonal adjustment factor, 4.4 percent and adding the Saturday peak hour trips forecast to be generated by the pending development.

Year 2028 Flow without Project Forecast with Approved Development - Year 2028 traffic flow without the project, as illustrated in Figure 20, was forecast by factoring the June 2007 volumes up by 2.4 percent per year (for 21 years, 64.5 percent) and then applying the seasonal adjustment factor, 4.4 percent and adding the Saturday peak hour trips forecast to be generated by the approved development. The Crook County TSP assumed that the parcel for the proposed development was zoned EFU-3 therefore it was assumed the that 2028 forecast traffic volumes include trips expected to be generated by build-out of the parcel.

Year 2028 Flow without Project Forecast with Pending Development - Year 2028 traffic flow without the project, as illustrated in Figure 21, was forecast by factoring the June 2007 volumes up by 2.4 percent per year (for 21 years, 64.5 percent) and then applying the seasonal adjustment factor, 4.4 percent and adding the p.m. peak hour trips forecast to be generated by the pending development. The Crook County TSP assumed that the parcel for the proposed development was zoned EFU-3 therefore it was assumed the that 2028 forecast traffic volumes include trips expected to be generated by build-out of the parcel.

#### SITE GENERATED TRAFFIC

Daily, p.m. peak hour and Saturday peak hour trips generated by the proposed project were forecast. The forecast considered pass-by trips and modal split. The p.m. peak hour and the Saturday peak hour trips from the proposed project were then distributed and assigned to the study area network. Details are presented below.





Figure 20 – Saturday Peak Hour Traffic (with Approved Development) – Year 2028 without Project



**Trip Generation Proposed Development** - The proposed Seven Peaks resort would include up to 735 total units. Of the 735 units, 490 would be single family residential units and 235 would be rental units. The development would also include a golf course, clubhouse with restaurant, conference center, pool facilities and a convenience store with gas pumps. All of these amenities are commonly found at destination resorts in Central Oregon. Future trips generated by the project were forecast using trip generation rates calculated by Kittelson and Associates, Inc. for Resorts in Central Oregon (memo to ODOT can be found in Appendix G).

Future trips forecast to be generated on Saturday were calculated using three different methodologies (Appendix G). The result was that the Saturday peak hour trip rate was about 1.38 percent higher than the p.m. peak hour trip rate. The Saturday peak hour trip generation rate was 0.44 (0.32 \* 1.38 = 0.44). The proposed development was forecast to generate 235 p.m. peak hour trips, 325 Saturday peak hour trips and 2,352 daily trips, as shown in Table 4.

TABLE 4 - TRIP GENERATION FORECAST PROPOSED DEVELOPMENT

	TRIP		In/Out	TRIP END GENERATION			
PERIOD	RATE	Units	SPLIT	In	Оит	TOTAL	
PM Peak Hour	0.32	735	50/50	117	118	235	
Saturday Peak Hour	0.44	735	50/50	162	163	325	
Daily	3.2	735	50/50	1,176	1,176	2,352	

Notes: \*Source: Trip Generation for Central Oregon Resorts, Memo to ODOT (Kittelson and Associates, Inc.; September 12, 2006).

**Trip Distribution and Assignment** - PM peak hour trips generated by the proposed project were distributed and assigned to the roadway system as shown in Figure 22. The Saturday peak hour trips forecast to be generated by the proposed development were also distributed and assigned to the roadway system, as shown in Figure 23. Distribution percentages are derived from turning movements documented in traffic counts performed for this report combined with a general knowledge of traffic distribution patterns in Crook County and information from previously approved studies. The traffic operations calculations presented within this report are not highly sensitive to distribution assumptions, given the relatively small percentage increase in total intersection traffic at higher-order street intersections.

**Pass-by Trips** - Very few destination resort trips are pass-by trips; thus, no reduction in trip generation was made to account for pass-by trips.

**Modal Split** - No reduction in vehicle trips was made to account for a potential shift away from the automobile. ITE trip rates are based on observed vehicle trip patterns at each land use and thereby account for a basic amount of non-auto travel.





## TRIP GENERATION POTENTIAL WITH EXISTING ZONING

The site for the proposed resort development is zoned EFU - 3 as shown in the Crook County GIS website (last visited June 20, 2007). As per the Transportation Impact Analysis Requirements, traffic analysis for a zone change requires that the relative difference between the potential trip generation under the existing zoning and the forecast trip generation under the proposed zoning. The following analysis presents a worst-case build out scenario which assumes the maximum development allowed under EFU- 3 zoning. The maximum density allowed under EFU-3 zoning is outlined in the Crook County Code, Chapter 18.24 (Appendix H).

**Worst-case Trip Generation scenario** - a worst-case build-out of the 580 acre site under EFU-3 zoning would allow for up to three 160-acre farm units. Each farm unit is allowed to have a primary residence and a second dwelling unit for a relative of the farm owner or hired employee. This worst-case build-out would result in a total of six single family dwelling units.

Trips were forecast for the existing zoning using a reasonable build-out scenario, six single family residential units. Trip generation rates found in the 7<sup>th</sup> Edition of *Trip Generation* (ITE, 2003) land use code 210, Single Family Residential, was used to forecast the trip generation. As shown in Table 5, the forecast trip generation would be 6 p.m. peak hour trips and 58 daily trips.

TABLE 5 - TRIP GENERATION FORECAST (IL ZONING - REASONABLE SCENARIO)

ITE	(TR	NDS RATE (PS PER (DENT)	In/Out	-	Pi	PM PEAK HOUR TRIP ENDS		
LAND USE*	DAILY	PM PEAK Hour	SPLIT (PERCENT)	Units	In	Оит	TOTAL	DAILY
210	1.01	6.97	63/37	6	4	2	6	58

Notes: \*Source: Trip Generation (ITE, 7th Edition, 2003), land use code 110, light industrial.

**Incremental Change in Trip Generation** - The change in zoning of the 580 acre site from EFU -3 to EFU -3 with a Destination Resort Overlay would result in a net increase in p.m. peak hour trips and daily trips. There would be a net increase of 229 p.m. peak hour trips and 2,296 daily trips with the current site plan application, as shown in Table 6. Since the number of trips expected to be generated by the existing zoning is relatively small, the 20-year forecast with project scenarios assumed entire trip generation of the project rather than the incremental difference which is typically used in 20-year forecast analysis scenarios. This provides a more conservative (high) estimate of future traffic flows.

TABLE 6 - INCREMENTAL CHANGE IN TRIP GENERATION

ZONING	PM PEAK HOUR TRIPS	DAILY TRIPS
Existing EFU-3 Zoning	6	58
Proposed Overlay Zone	235	2,352
INCREMENTAL CHANGE	229	2,296

#### TRAFFIC FLOW FORECAST WITH PROJECT

Peak hour traffic flow generated by the proposed project was added to the without project scenarios as discussed below.

**PM Peak Hour** - Traffic forecast for each year with the trips generated by the proposed development for the two in-process development scenarios are discussed below.

Year 2008 Flow with Project Forecast with Approved Development - Year 2008 flow with project forecast, as illustrated in Figure 24, was derived by adding the project trips to the year 2008 without project forecast flow.

Year 2008 Flow with Project Forecast with Pending Development - Year 2008 flow with project forecast, as illustrated in Figure 25, was derived by adding the project trips to the year 2008 without project forecast flow.

Year 2018 Flow with Project Forecast with Approved Development - The year 2018 flow with project forecast, as illustrated in Figure 26 was derived by adding the project trips to the year 2018 without project forecast flow.

**Year 2018 Flow with Project Forecast with Pending Development** - The year 2018 flow with project forecast, as illustrated in Figure 27 was derived by adding the project trips to the year 2018 without project forecast flow

**Year 2028 Flow with Project Forecast with Approved Development** - The year 2028 flow with project forecast, as illustrated in Figure 28 was derived by adding the project trips to the year 2028 without project forecast flow.

**Year 2028 Flow with Project Forecast with Approved Development** - The year 2028 flow with project forecast, as illustrated in Figure 29 was derived by adding the project trips to the year 2028 without project forecast flow.

**Saturday Peak Hour** - Traffic forecast for each year with the trips from the proposed development for the two in-process development scenarios are discussed below.

Year 2008 Flow with Project Forecast with Approved Development - Year 2008 flow with project forecast, as illustrated in Figure 30, was derived by adding the project trips to the year 2008 without project forecast flow.

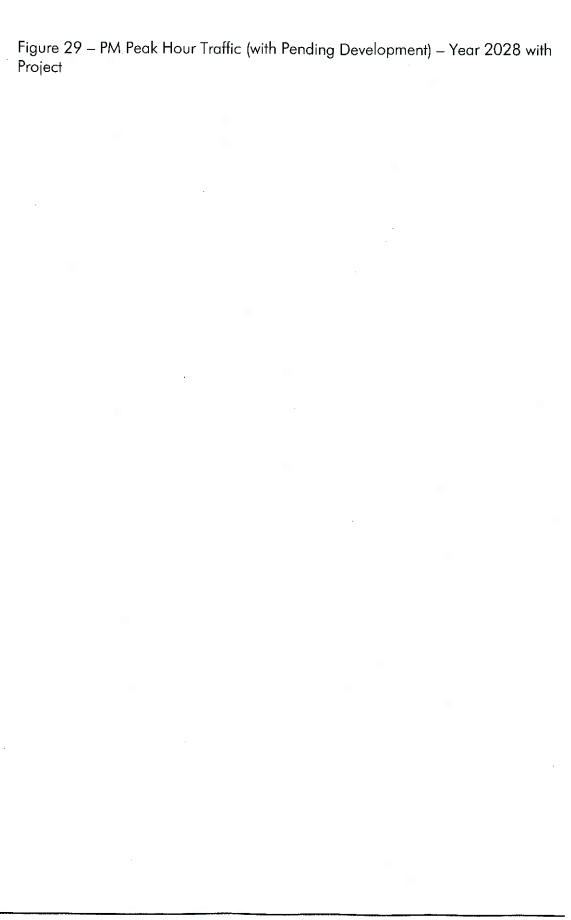














Year 2008 Flow with Project Forecast with Pending Development – Year 2008 flow with project forecast, as illustrated in Figure 31, was derived by adding the project trips to the year 2008 without project forecast flow.

Year 2018 Flow with Project Forecast with Approved Development - The year 2018 flow with project forecast, as illustrated in Figure 32 was derived by adding the project trips to the year 2018 without project forecast flow

**Year 2018 Flow with Project Forecast with Pending Development** - The year 2018 flow with project forecast, as illustrated in Figure 33 was derived by adding the project trips to the year 2018 without project forecast flow.

**Year 2028 Flow with Project Forecast with Approved Development** - The year 2028 flow with project forecast, as illustrated in Figure 34 was derived by adding the project trips to the year 2028 without project forecast flow.

Year 2028 Flow with Project Forecast with Approved Development - The year 2028 flow with project forecast, as illustrated in Figure 35 was derived by adding the project trips to the year 2028 without project forecast flow.

### SITE TRAFFIC CONTRIBUTION

After built and occupied, the proposed project would result in an overall increase in the number of vehicles traveling in the area. The impact at each of the study area intersections for the p.m. peak hour traffic contribution (with approved development only) is shown in Table 7 expressed as a percentage of total traffic. The impact at each of the study area intersections for the p.m. peak hour traffic contribution (with pending and approved development) is shown in Table 8 expressed as a percentage of total traffic. The impact at each of the study area intersections for the Saturday peak hour traffic contribution (with approved development only) is shown in Table 9 expressed as a percentage of total traffic. The impact at each of the study area intersections for the Saturday peak hour traffic contribution (with pending and approved development) is shown in Table 10 expressed as a percentage of total traffic.



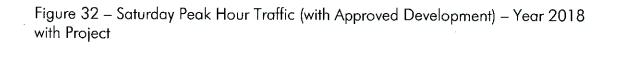






Figure 35 – Saturday Peak Hour Traffic (with Pending Development) – Year 2028 with Project

TABLE 7 - SITE TRAFFIC CONTRIBUTION PM PEAK HOUR (WITH APPROVED ONLY)

TABLE 7 - SITE IN	CAFFIC	PM PEAK HOUR (WITH APPROVED ONLY)							
		YEAR 200	8		YEAR 201			YEAR 202	28
Intersection	PROJECT TOTAL (VPH)*	INTERSECTION TOTAL (VPH)*	PERCENT OF TOTAL	PROJECT TOTAL (VPH)*	INTERSECTION TOTAL (VPH)*	PERCENT OF TOTAL	PROJECT TOTAL (VPH)*	INTERSECTION TOTAL (VPH)*	PERCENT OF TOTAL
Powell Butte Highway & Alfalfa Road	82	1,265	6	82	1,384	. 6	82	1,535	5
Powell Butte Highway & Riggs Road	82	1,100	7	82	1,222	7	82	1,380	6
Powell Butte Highway & Highway 126	164	2,261	7	164	2,593	6	164	3,012	5
Veterans Way & Highway 126	82	1,750	5	82	1,999	4	82	2,315	4
Reif Road & Highway 126	165	1,884	9	165	2,192	8	165	2,588	6
Minson Road & Highway 126	165	1,764	9	165	2,076	8	165	2,439	7
Parrish Lane & Highway 126	165	1,792	9	165	2,167	8	165	2,438	7
Stillman (Riggs) Road & Highway 126	0	1,661	0	0	1,955	0	0	2,329	0
Highway 126 & Wiley Road	70	1,730	4	70	2,026	3	70	2,398	3
Millican Road & Highway 126	70	1,806	4	70	2,123	3	70	2,520	3
Tom McCall Road & Hwy126	70	1,895	4	70	2,234	3	70	2,665	3
Hwy 26 & Hwy 126 - SB	35	1,260	3	35	1,482	2	35	1,761	2
Hwy 26 & Hwy 126 - NB	35	1,000	4	35	1,210	3	35	1,476	2
Parrish Lane & Wiley Road	235	256	92	235	256	92	235	270	87
Parrish Lane & Site Access	235	243	97	235	243	97	235	248	95

Notes: \*Total traffic includes proposed project traffic.

TABLE 8 - SITE TRAFFIC CONTRIBUTION PM PEAK HOUR (WITH ALL PENDING)

TABLE 6 - SITE IN	PM PEAK HOUR TRAFFIC								
		YEAR 2008	3		YEAR 201		, I	YEAR 202	8
Intersection	PROJECT TOTAL (VPH)*	INTERSECTION TOTAL (VPH)*	PERCENT OF TOTAL	PROJECT TOTAL (VPH)*	INTERSECTION TOTAL (VPH)*	PERCENT OF TOTAL	PROJECT TOTAL (VPH)*	INTERSECTION TOTAL (VPH)*	PERCENT OF TOTAL
Powell Butte Highway & Alfalfa Road	82	1,667	5	82	1,786	5	82	1,937	4
Powell Butte Highway & Riggs Road	82	1,616	5	82	1,738	5	82	1,896	4
Powell Butte Highway & Highway 126	164	2,722	6	164	2,857	6	164	3,473	5
Veterans Way & Highway 126	82	2,220	4 .	82	2,469	3	82	2,785	2
Reif Road & Highway 126	165	1,929	9	165	2,238	7	165	2,633	6
Minson Road & Highway 126	165	1,837	9	165	2,121	8	165	2,484	7
Parrish Lane & Highway 126	165	1,837	9	165	2,122	8	165	2,483	7
Stillman (Riggs) Road & Highway 126	0	1,706	0	0	2,000	0	0	1,237	0
Highway 126 & Wiley Road	70 .	1,775	4	70	2,071	3	70	2,443	3
Millican Road & Highway 126	70	2,216	3	70	2,533	3	70	2,930	2
Tom McCall Road & Hwy 126	70	2,305	3	70	2,644	3	70	3,075	2
Hwy 26 & Hwy 126 - SB	35	1,336	3	35	1,558	2	35	1,837	2
Hwy 26 & Hwy 126 - NB	35	1,198	3	35	1,408	2	35	1,674	2
Parrish Lane & Wiley Road	235	256	92	235	260	90	235	270	87
Parrish Lane & Site Access	235	243	97	235	245	96	235	248	95

Notes: \*Total traffic includes proposed project traffic.

TABLE 9 - SITE TRAFFIC CONTRIBUTION SAT. PEAK HOUR (WITH APPROVED ONLY)

	SATURDAY PEAK HOUR TRAFFIC									
	YEAR 2008				YEAR 2018			YEAR 2028		
Intersection	PROJECT TOTAL (VPH)*	INTERSECTION TOTAL (VPH)*	PERCENT OF TOTAL	PROJECT TOTAL (VPH)*	INTERSECTION TOTAL (VPH)*	PERCENT OF TOTAL	PROJECT TOTAL (VPH)*	INTERSECTION TOTAL (VPH)*	PERCENT OF TOTAL	
Parrish Lane & Highway 126	227	1,670	14	227	1,851	12	227	2,078	11	
Highway 126 & Wiley Road	98	1,524	6	98	1,698	6	98	1,922	5	
Parrish Lane & Wiley Road	325	354	92	325	364	89	325	371	88	
Parrish Lane & Site Access	325	325	100	325	325	100	325	325	100	

Notes: \*Total traffic includes proposed project traffic.

TABLE 10 - SITE TRAFFIC CONTRIBUTION SAT. PEAK HOUR (WITH ALL PENDING)

			SAT	TURDAY I	PEAK HOUR	TRAFFIC				
	YEAR 2008				Year 2018			YEAR 2028		
Intersection	PROJECT TOTAL (VPH)*	INTERSECTION TOTAL (VPH)*	PERCENT OF TOTAL	PROJECT TOTAL (VPH)*	INTERSECTION TOTAL (VPH)*	PERCENT OF TOTAL	PROJECT TOTAL (VPH)*	INTERSECTION TOTAL (VPH)*	PERCENT OF TOTAL	
Parrish Lane & Highway 126	227	1,732	14	227	1,913	12	227	2,140	11	
Highway 126 & Wiley Road	98	1,586	6	98	1,760	6	98	1,984	5	
Parrish Lane & Wiley Road	325	354	92	325	364	89	325	371	88	
Parrish Lane & Site Access	325	325	100	325	325	100	325	325	100	

Notes: \*Total traffic includes proposed project traffic.

# TRAFFIC ANALYSIS

This section of the report presents the intersection operations analysis and the findings from other analysis conducted for the study. The operations analysis is essentially a means of assessing the quality of traffic flow at the key study intersections and is used to determine if Crook County operations standards and ODOT mobility standards are met. Other issues are also addressed, including: the potential need for traffic signals; the need for new turn lanes; and, intersection sight distance. Finally, where needs are identified, potential mitigation actions are presented.

#### **INTERSECTION OPERATIONS**

Average vehicle delay and volume-capacity ratios were calculated at the study intersections for the peak one-hour during the p.m. peak period and the one-hour during the Saturday peak period. Existing and future scenarios without traffic from the project were analyzed and compared with scenarios where project traffic was added. Average delay and volume-capacity ratios reflect conditions for the peak peak period. A discussion of concepts and methodologies for operational standards used in this analysis is found in Appendix I. Level of service calculations are found in Appendix J.

As per section 10 b. of the Crook County Transportation Impact Analysis Requirements, the minimum acceptable level of service for signalized intersections and all-way stop intersections is LOS 'D'. The minimum acceptable level of service for two-way stop-controlled intersections is LOS 'E' of LOS 'F' with a v/c ratio of 0.95 or less for the critical movement.

As per the 1990 Oregon Highway Plan (revised 2005 and adopted 2005), Highway 126 is classified as a statewide expressway therefore ODOT mobility standards for statewide expressway highways outside an Urban Growth Boundary (UGB) would apply. The mobility standard on this type of facility is a volume-capacity ratio of less than or equal to 0.70. This volume-capacity ratio would apply at signalized intersections and uncontrolled approaches to intersections. A volume-capacity ratio of 0.80 would apply to all stop-controlled approaches to intersections.

ODOT also requests that more conservative analysis assumptions be used. To accommodate this standard request, saturation flow rates were lowered to 1,800 vehicles per hour, rather than the HCM 2000 default value of 1,900 and a peak-hour factor was introduced (which is standard by the HCM, but excluded by the

City). Because of these two different standards, two sets of results are provided at intersections that are of interest to ODOT.

A summary of the study intersections that were forecast to operate below either the Crook County operation standards or ODOT mobility standards for at least one of the scenarios presented in this report (with the approved and pending area development) is shown in Table 11.

TABLE 11 - INTERSECTION FORECAST TO NOT MEET OPERATION STANDARDS

		SCENARIO	†	ANDARD M	ET?
Intersection	STANDARD	(with all Pending Area development)	2008	2018	2028
Powell Butte Highway	Both	no Project	No	No	No
and Highway 126		with Project	No	No	No
Tom McCall Road and	Both	no Project	No	No	No
Highway 126	DOM	with Project	No	No	No
Highway 126 and	Both	no Project	No	No	No
Highway 26 – SB	DOIN	with Project	No	No	No
Millican Road and Highway 126	Both	no Project	No	No	No
	DOM	with Project	No	No	No
Highway 126 and	Both	no Project	No	No	No
Highway 26 – NB	DOM	with Project	No	No	No
Veterans Way and	Both	no Project	No	No	No
Highway 126	DOM	with Project	No	No	No
Highway 126 and	Both	no Project	Yes	Yes	Yes
Wiley Road	DOM	with Project	Yes	No	No
Powell Butte Highway	Crook	no Project	Yes	No	No
and Alfalfa Road	County	with Project	Yes	No	No
Reif Road and	Both	no Project	Yes	Yes	No
Highway 126	DOTH	with Project	Yes	Yes	No
Stillman Road and	Daul	no Project	Yes	Yes	No
Highway 126	Both	with Project	Yes	Yes	No

**PM Peak Hour Intersection Operations - Year 2008 without Project (with Approved Development)** – Thirteen of the study intersection were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2008(with the approved area development only) for conditions without the proposed project, as shown in Table 12.

There are three intersections, as shown in Table 12 that would not meet the Crook County operation standards or the ODOT mobility standards in this scenario:

- Powell Butte Highway and Highway 126;
- Tom McCall Road and Highway 126; and,
- Highway 126 and Highway 26 SB (in Prineville).

TABLE 12- PM PEAK HOUR INTERSECTION OPERATIONS - YEAR 2008 WITHOUT

PROJECT (WITH APPROVED DEVELOPMENT)

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT MOBILITY STANDARDS MET?
Powell Butte Hwy &	SB – Left	Α	< 0.50		
Alfalfa Rd	WB – Left	С	0.55	Yes	Yes
Alialia Ka	WB – Right	В	< 0.50		
	NB – Left	Α	< 0.50		
Powell Butte Hwy &	SB — Left	Α	< 0.50	V	
Riggs Rd	EB — Right	В	< 0.50	Yes	Yes
	WB – Approach	С	< 0.50		
-,	NB – Left	F	>1.00		
D. JID u II v	NB – Right	F	>1.00		
Powell Butte Hwy &	SB — Approach	В	< 0.50	No	No
Hwy 126	EB – Left	Α	< 0.50		
	WB Left	В	< 0.50	•	
N/ / N/ 0				Meets	
Veterans Wy &	NB – Approach	E	0.80	Redmond	Yes
Hwy 126*	WB – Left	Α	< 0.50	Standards	, 00
	NB — Approach	F	< 0.50	orarra arab	
Reif Rd &	SB – Right	D	< 0.50		
Hwy 126	EB – Left	Ä	< 0.50	Yes	Yes
	WB – Left	В	< 0.50		
Minson Rd & Hwy 126	EB – Left	А	<0.50	Yes	Yes
Parrish Ln &	SB – Right	В	< 0.50		
Hwy 126	EB – Left	Ā	< 0.50	Yes	Yes
Stillman (Riggs) Rd &	NB — Approach	С	< 0.50		
Hwy 126	WB – Left	Ä	< 0.50	Yes	Yes
	SB – Left	A	<0.50		
Hwy 126 & Wiley Rd	EB – Left	F	< 0.50	Yes	Yes
,	WB – Approach	Ċ	< 0.50	, 00	105
Lulle 5 Lo	NB – Approach	D	< 0.50		
Millican Rd &	SB — Approach	F	< 0.50	Yes	Yes
Hwy 126	WB – Left	В	< 0.50	103	103
	NB – Approach	<u>_</u>	0.64		
Tom McCall Rd &	SB — Approach	, F	>1.00		
Hwy 126	· EB – Left .	Ä	< 0.50	No	No
,	WB – Left	В	< 0.50		
Hwy 26 & Hwy 126 - SB	SB – Approach	F	>1.00	No	No
Hwy 26 & Hwy 126 – NB	NB – Approach	D	<0.50	Yes	Yes
Parrish Ln &	EB – Approach	Α	< 0.50		
Wiley Rd	WB — Approach	Ä	< 0.50	Yes	N/A
Parrish Ln & Site Access	TTD - Approach		Not Built		
Turnari Lir & Sile Access			TIIŲG IOPI		

Notes: \*City of Redmond standards apply and ODOT standards within an UGB.

**PM Peak Hour Intersection Operations - Year 2008 with Project (with Approved Development)** – Eleven of the study intersection were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2008 (with the approved area development only) for conditions with the proposed project, as shown in Table 13.

There are four intersections, as shown in Table 13 that would not meet the Crook County operation standards or the ODOT mobility standards in this scenario:

- Powell Butte Highway and Highway 126;
- Millican Road and Highway 126;
- Tom McCall Road and Highway 126; and,
- Highway 126 and Highway 26 SB (in Prineville).

The intersection of Veterans Way and Highway 126 is in the City of Redmond. This intersection would not meet the ODOT mobility standards (volume-capacity ratio of 0.80 or better) in the year 2008 (with the approved area development only) for conditions with the proposed project, as shown in Table 13.

TABLE 13- PM PEAK HOUR INTERSECTION OPERATIONS - YEAR 2008 WITH PROJECT

(WITH APPROVED DEVELOPMENT)

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT MOBILITY STANDARDS MET?
Powell Butte Hwy &	SB – Left	Α	< 0.50		
Alfalfa Rd	WB - Left	D	0.65	Yes	Yes
7 mana ika	WB — Right	В	< 0.50		
	NB – Left	Α	< 0.50		
Powell Butte Hwy &	SB – Left	Α	< 0.50	Yes	Yes
Riggs Rd	EB – Right	В	< 0.50	res	res
	WB – Approach	C	< 0.50		
	NB – Left ·	F	>1.00		
Powell Butte Hwy &	NB – Right	F	>1.00		
Hwy 126	SB – Approach	В	< 0.50	No	No
11WY 120	EB – Left	Α	< 0.50		
<del></del> ::	WB – Left	В	< 0.50		
Veterans Wy & Hwy 126*	NB — Approach WB — Left	E B	0.85 <0.50	Would meet Redmond Standards	No
· · · · · · · · · · · · · · · · · · ·	NB – Approach	F	< 0.50	orania aras	
Reif Rd &	SB – Right	E	< 0.50		
Hwy 126	EB – Left	Ā	< 0.50	Yes	Yes
, 120	WB – Left	В	< 0.50		
Minson Rd & Hwy 126	EB – Left	A	<0.50	Yes	Yes
Parrish Ln &	SB — Right	С	< 0.50		
Hwy 126	EB – Left	Α	< 0.50	Yes	Yes
Stillman (Riggs) Rd &	NB — Approach	С	< 0.50	V	V .
Hwy 126	WB – Left	Α	< 0.50	Yes	Yes
Hwy 126 &	SB – Left	A	< 0.50		
Wiley Rd	EB Left	F	0.70	Yes	Yes
vviiev Ko	WB – Approach	C	< 0.50		
Millican Rd &	NB — Approach	E	>1.00		
Hwy 126	SB — Approach	F	>1.00	No	No
	WB – Left	B	< 0.50		
	NB — Approach	F	>1.00		
Tom McCall Rd &	SB — Approach	F	>1.00	NI-	Ni-
Hwy 126	EB – Left	Α	< 0.50	No	No
	WB – Left	Α	< 0.50		
Hwy 26 & Hwy 126 - SB	SB — Approach	F	>1.00	No	No
Hwy 26 & Hwy 126 – NB	NB – Approach	D	< 0.50	Yes	Yes
	NB – Left	A	< 0.50		
Parrish Ln &	SB — Left	· A	< 0.50	V	N 1 / 4
Wiley Rd	EB — Approach	Α	< 0.50	Yes	N/A
,	WB – Approach	Α	< 0.50		
Parrish Ln & Site Access	EB — Approach	A	< 0.50	Yes	N/A

Notes: \*City of Redmond standards apply and ODOT standards within an UGB.

**PM Peak Hour Intersection Operations - Year 2008 without Project (with Pending & Approved Development)** — Ten of the study intersection were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2008 (with the pending and approved area development) for conditions without the proposed project, as shown in Table 14.

There are five intersections, as shown in Table 14 that would not meet the Crook County operation standards or the ODOT mobility standards in this scenario:

- Powell Butte Highway and Highway 126;
- Millican Road and Highway 126;
- Tom McCall Road and Highway 126;
- Highway 126 and Highway 26 SB (in Prineville); and,
- Highway 126 and Highway 26 NB (in Prineville).

The intersection of Veterans Way and Highway 126 is in the City of Redmond. This intersection would not meet the ODOT mobility standards (volume-capacity ratio of 0.80 or better) in the year 2008 (with the pending and approved area development) for conditions without the proposed project, as shown in Table 14.

TABLE 14- PM PEAK HOUR INTERSECTION OPERATIONS - YEAR 2008 WITHOUT PROJECT

(WITH PENDING & APPROVED DEVELOPMENT)

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT Mobility Standards Met?
Powell Butte Hwy &	SB – Left	Α	< 0.50		
Alfalfa Rd	WB – Left	E	0.66	Yes	Yes
Allalia ka	WB – Right	В	< 0.50		
	NB – Left	A	< 0.50		
Powell Butte Hwy &	SB – Left	· A	< 0.50	V	V
Riggs Rd	EB – Right	В	< 0.50	Yes	Yes
	WB — Approach	E	< 0.50		
	NB – Left	F	>1.00		
Powell Butte Hwy &	NB – Right	Ē	0.89		
Hwy 126	SB — Right	В	< 0.50	No	No
11wy 120	EB - Left	Α	< 0.50		
	WB – Left	В	< 0.50		
·· <del>·</del>				Would not	
Veterans Wy &	NB – Approach	F	>1.00	meet	NI.
Hwy 126*	WB – Left	В	< 0.50	Redmond	No
				Standards	
Reif Rd & Hwy 126	NB – Approach	F	< 0.50		
	SB - Right	D	< 0.50	V	V
	EB – Left	Α	< 0.50	Yes	Yes
	WB - Left	В	< 0.50		
Minson Rd & Hwy 126	EB – Left	Α	<0.50	Yes	Yes
Parrish Ln &	SB – Right	В	<0.50		
Hwy 126	EB – Left	A	< 0.50	Yes	Yes
Stillman (Riggs) Rd &	NB — Approach	C	< 0.50		
Hwy 126	WB – Left	В	< 0.50	Yes	Yes
	EB – Left	F	< 0.50		
Hwy 126 & Wiley Rd	WB – Right	С	< 0.50	Yes	Yes
A A · II · D. I. O	NB – Approach	F	>1.00		
Millican Rd &	SB – Approach	F	>1.00	No	No
Hwy 126	WB – Left	В	< 0.50		
	NB – Approach	F			
Tom McCall Rd &	SB — Approach	F	>1.00	× 1	
Hwy 126	EB – Left	В	>1.00	No	No
,	WB – Left	В			
Hwy 26 &			. 1.00		
Hwy 126 - SB	SB - Approach	F	>1.00	No	No
Hwy 26 &	NID A - I		1.00		
Hwy 126 – NB	NB – Approach	F	>1.00	No	No
Parrish Ln &	EB – Approach	Α	<0.50		
Wiley Rd	WB — Approach	A	< 0.50	Yes	N/A
Parrish Ln &					
Site Access			Not Built		

Notes: \*City of Redmond standards apply and ODOT standards within an UGB.

PM Peak Hour Intersection Operations - Year 2008 with Project (with Pending & Approved Development) — Ten of the study intersection were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2008 (with the pending and approved area development) for conditions with the proposed project, as shown in Table 15.

There are five intersections, as shown in Table 15 that would not meet the Crook County operation standards or the ODOT mobility standards in this scenario:

- Powell Butte Highway and Highway 126;
- Millican Road and Highway 126;
- Tom McCall Road and Highway 126;
- Highway 126 and Highway 26 SB (in Prineville); and,
- Highway 126 and Highway 26 NB (in Prineville)

The intersection of Veterans Way and Highway 126 is in the City of Redmond. This intersection would not meet the ODOT mobility standards (volume-capacity ratio of 0.80 or better) in the year 2008 (with the pending and approved area development) for conditions with the proposed project, as shown in Table 15.

TABLE 15 - PM PEAK HOUR INTERSECTION OPERATIONS - YEAR 2008 WITH PROJECT

(WITH PENDING & APPROVED DEVELOPMENT)

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATIONS STANDARDS MET?	ODOT MOBILITY STANDARDS MET?
Powell Butte Hwy &	SB – Left	Α	< 0.50		
Alfalfa Rd	WB – Left	E	0.66	Yes	Yes
7 (IIdila Ita	WB – Right	В	< 0.50		
	NB – Left	Α	< 0.50		
Powell Butte Hwy &	SB — Left	Α	< 0.50	Yes	Yes
Riggs Rd	EB – Right	В	< 0.50	163	162
	WB – Approach	F	<0.50		
	NB – Left	F	>1.00		
Powell Butte Hwy &	NB – Right	F	>1.00		
	SB — Right	В	< 0.50	No	No
Hwy 126	EB – Left	Α	< 0.50		
	WB – Left	C ·	0.53		
				Would not	
Veterans Wy & Hwy 126*	NB — Approach	F	>1.00	meet	NI_
	WB – Left	В	<0.50	Redmond Standards	No
	NB – Approach	F	< 0.50		
D (CD Lo L) 104	SB – Right	Ε	< 0.50		
Reif Rd & Hwy 126	EB – Left	Ā	< 0.50	Yes	Yes
	WB – Left	В	< 0.50		
Minson Rd & Hwy 126	EB – Left	Α	<0.50	Yes	Yes
Parrish Ln &	SB — Right	С	< 0.50		
Hwy 126	EB – Left	Α	< 0.50	Yes	Yes
Stillman (Riggs) Rd &	NB – Approach	С	< 0.50	V	
Hwy 126	WB – Left	В	< 0.50	Yes	Yes
U 10∠ 0 \\table \\ \D	EB – Left	F	0.75	V	
Hwy 126 & Wiley Rd	WB – Right	С	< 0.50	Yes	Yes
Millican Rd &	NB – Approach	F	>1.00		
	SB — Approach	F	>1.00	No	No
Hwy 126	WB – Left	В	< 0.50		
	NB — Approach	F	>1.00		
Tom McCall Rd &	SB — Approach	F	>1.00	N.I	<b>N</b> 1
Hwy 126	EB – Left	В	< 0.50	No	No
	WB – Left	В	< 0.50		
Hwy 26 & Hwy 126 - SB	SB — Approach	F	>1.00	No	No
Hwy 26 & Hwy 126 – NB	NB – Approach	F	>1.00	No	No
	NB – Left	Α	< 0.50	···	
Parrish Ln &	SB — Left	Α	< 0.50	V	h 1 / A
Wiley Rd	EB – Approach	Α	< 0.50	Yes	N/A
	WB - Approach	A	< 0.50		
Parrish Ln & Site Access	EB — Approach	Α	<0.50	Yes	N/A

Notes: \*City of Redmond standards apply and ODOT standards within an UGB.

**Saturday Peak Hour Intersection Operations - Year 2008 without Project (with Approved Development)** – All of the study intersection, as shown in Table 16, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2008 with the approved area development only for conditions without the proposed project.

TABLE 16- SATURDAY PEAK HOUR INTERSECTION OPERATIONS - YEAR 2008 WITHOUT PROJECT (WITH APPROVED DEVELOPMENT)

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT MOBILITY STANDARDS MET?
Parrish Ln &	SB — Approach	С	<0.50	Yes	Yes
Hwy 126	EB – Left	Α	< 0.50		
Hwy 126 &	SB — Left	A	<0.50	Yes	Yes
Wiley Rd	EB – Approach	С	< 0.50		
Parrish Ln &	EB – Right	A	< 0.50	Yes	N/A
Wiley Rd	WB – Left	Α	< 0.50		
Parrish Ln & Site Access			Not Built		

**Saturday Peak Hour Intersection Operations - Year 2008 with Project (with Approved Development)** – All of the study intersection, as shown in Table 17, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2008 with the approved area development only for conditions with the proposed project.

TABLE 17- SATURDAY PEAK HOUR INTERSECTION OPERATIONS - YEAR 2008 WITH PROJECT (WITH APPROVED DEVELOPMENT)

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATIONS STANDARDS MET?	ODOT MOBILITY STANDARDS MET?
Parrish Ln &	SB — Approach	С	< 0.50	Vaa	Yes
Hwy 126	EB – Left	Α	< 0.50	Yes	
Hwy 126 & Wiley Rd	SB — Left	Α	< 0.50	Yes	Yes
	EB — Approach	E	< 0.50		
Parrish Ln & Wiley Rd	NB – Left	Α	<0.50	Yes	N/A
	SB – Left	Α	< 0.50		
	EB — Right	В	< 0.50		
	WB — Approach	Α	< 0.50		
Parrish Ln & Site Access	WB – Approach	Α	<0.50	Yes	N/A

**Saturday Peak Hour Intersection Operations - Year 2008 without Project (with Pending Development)** – All of the study intersection, as shown in Table 18, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2008 with the pending and approved area development only for conditions without the proposed project.

TABLE 18 - SATURDAY PEAK HOUR INTERSECTION OPERATIONS - YEAR 2008 WITHOUT PROJECT (WITH PENDING & APPROVED DEVELOPMENT)

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT MOBILITY STANDARDS MET?
Parrish Ln &	SB — Approach	С	< 0.50	Yes	Yes
Hwy 126	EB – Left	Α	< 0.50		
Hwy 126 &	SB – Left	Ā	< 0.50	Yes	Yes
Wiley Rd	EB — Approach	С	< 0.50		
Parrish Ln &	EB – Right	А	< 0.50	Yes	N/A
Wiley Rd	WB – Left	Α	< 0.50		
Parrish Ln & Site Access			Not Built		

**Saturday Peak Hour Intersection Operations - Year 2008 with Project (with Pending Development)** – All of the study intersections, as shown in Table 19, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2008 with the pending and approved area development only for conditions with the proposed project.

TABLE 19 - SATURDAY PEAK HOUR INTERSECTION OPERATIONS - YEAR 2008 WITH PROJECT (WITH PENDING & APPROVED DEVELOPMENT)

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATIONS STANDARDS MET?	ODOT MOBILITY STANDARDS MET?
Parrish Ln &	SB – Approach	С	< 0.50	Yes	Yes
Hwy 126	EB – Left	Α	< 0.50		
Hwy 126 &	SB — Left	Α	< 0.50	Yes	Yes
Wiley Rd	EB – Approach	F	< 0.50		
Parrish Ln & Wiley Rd	NB – Left	Α	< 0.50	Yes	N/A
	SB — Left	Α	< 0.50		
	EB Right	В	< 0.50		
	WB — Approach	Α	< 0.50		
Parrish Ln & Site Access	WB –Left	Α	<0.50	Yes	N/A

PM Peak Hour Intersection Operations - Year 2018 without Project (with Approved Development) – Twelve of the study intersections, as shown in Table 20, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2018 (with the approved area development only) for conditions without the proposed project.

There are three intersections, as shown in Table 20 that would not meet the Crook County operation standards or the ODOT mobility standards in this scenario:

Powell Butte Highway and Highway 126;

- Tom McCall Road and Highway 126; and,
- Highway 126 and Highway 26 SB (in Prineville).

The intersection of Veterans Way and Highway 126 is in the City of Redmond. This intersection would not meet the ODOT mobility standards (volume-capacity ratio of 0.80 or better) in the year 2018 (with the approved area development) for conditions without the proposed project, as shown in Table 19.

TABLE 20 - PM PEAK HOUR INTERSECTION OPERATIONS - YEAR 2018 WITHOUT PROJECT

(WITH APPROVED DEVELOPMENT)

INTERSECTION	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATIONS STANDARDS MET?	ODOT MOBILITY STANDARDS MET?
Powell Butte Hwy &	SB — Left	Α	<0.50		
Alfalfa Rd	WB – Left	E	0.66	Yes	Yes
Alialia Ka	WB – Right	В	< 0.50		
	NB – Left	Α	< 0.50		
Powell Butte Hwy &	SB – Left	Α	< 0.50	V	.,
Riggs Rd	EB - Right	В	< 0.50	Yes	Yes
	WB — Approach	D	< 0.50		
	NB – Left	F	>1.00		
	NB – Right	F	>1.00		
Powell Butte Hwy &	SB - Left	В	< 0.50	No	No
Hwy 126	EB – Left	Ä	< 0.50	110	140
	WB – Left	В	< 0.50		
· <del></del> -	110 - COII		<u> </u>	Meets	_
Veterans Wy & Hwy	NB – Approach	F	0.90		NI-
126*	WB – Left	В	< 0.50	Redmond Standard	No
	NB – Approach	F	0.52		
Daif Dal 8 Ll 104	SB — Right	E	< 0.50	Yes	Yes
Reif Rd & Hwy 126	EB – Left	Α	< 0.50		
	WB – Left	Α	< 0.50		
Minson Rd & Hwy 126	EB – Left	А	<0.50	Yes	Yes
Parrish Ln &	SB - Right	С	< 0.50		.,
Hwy 126	EB – Left	Α	< 0.50	Yes	Yes
Stillman (Riggs) Rd &	NB – Approach	D	< 0.50		
Hwy 126	WB – Left	В	< 0.50	Yes	Yes
	EB – Left	F	0.23		
Hwy 126 & Wiley Rd	WB – Right	À	< 0.50	Yes	Yes
	NB — Approach	F	>0.51		
Millican Rd &	SB – Approach	F	< 0.50	Yes	Yes
Hwy 126	WB – Left	В	< 0.50	103	103
	NB — Approach	F	>1.00		
Tom McCall Rd &	SB – Approach	F	>1.00		
Hwy 126	EB – Left	В	< 0.50	No	No
, 120	WB Left	В	< 0.50		
Hwy 26 &	110 - 1011		~0.50		
Hwy 126 - SB	NB – Approach	ı F	>1.00	No	No
Hwy 26 & Hwy 126 – NB	SB – Approach	F	0.64	Yes	Yes
Downiah In 9	NB – Left	Α	< 0.50		
Parrish Ln &	EB — Approach	Α	< 0.50	Yes	N/A
Wiley Rd	WB – Approach	Α	< 0.50		,
Parrish Ln & Site Access			Not Built		

**PM Peak Hour Intersection Operations - Year 2018 with Project (with Approved Development)** – Eleven of the study intersections, as shown in Table 21, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2018 (with the approved area development only) for conditions with the proposed project.

There are four intersections, as shown in Table 21, that would not meet the Crook County operation standards or the ODOT mobility standards in this scenario:

- Powell Butte Highway and Highway 126;
- Highway 126 and Wiley Road;
- Tom McCall Road and Highway 126; and,
- Highway 126 and Highway 26 SB (in Prineville).

The intersection of Veterans Way and Highway 126 is in the City of Redmond. This intersection would not meet the ODOT mobility standards (volume-capacity ratio of 0.80 or better) in the year 2018 (with the approved area development only) for conditions with the proposed project, as shown in Table 21.

TABLE 21 - PM PEAK HOUR INTERSECTION OPERATIONS - YEAR 2018 WITH PROJECT

(WITH APPROVED DEVELOPMENT)

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT MOBILITY STANDARDS MET?
Powell Butte Hwy &	SB — Left	В	<0.50	***	
Alfalfa Rd	WB – Left	F	0.74	Yes	Yes
	WB – Right	C	0.56		
- 0	NB – Left	Α	< 0.50		
Powell Butte Hwy &	SB – Left	A	< 0.50	Yes	Yes
Riggs Rd	EB - Right	В	< 0.50	103	163
	WB – Approach	D	<0.50		
	NB – Left	F	>1.00		
Powell Butte Hwy &	NB-Right	F	>1.00		
Hwy 126	SB — Left	В	< 0.50	No	No
11117 120	EB – Left	Α	< 0.50		
	WB – Left	В	< 0.50		
Veterans Wy & Hwy	NB — Approach	F	0.94	Meets	
126*	WB - Left	В	< 0.50	Redmond	No
	AAD FOII		<b>\0.50</b>	Standards	
	NB — Approach	F	0.67		
Reif Rd & Hwy 126	SB — Left	F	< 0.50	Yes	V
Reli Ku oz Tiwy 120	EB – Left	В	< 0.50	res	Yes
	WB – Left	В	< 0.50		
Minson Rd & Hwy 126	EB – Left	В	<0.50	Yes	Yes
Parrish Ln &	SB – Right	С	< 0.50	V	
Hwy 126	EB Left	В	< 0.50	Yes	Yes
Stillman (Riggs) Rd &	NB — Approach	D	< 0.50		
Hwy 126	WB – Left	В	< 0.50	Yes	Yes
LL 107 9 M/d - D I	EB – Left	F	>1.00	<b>.</b>	
Hwy 126 & Wiley Rd	WB – Right	С	< 0.50	No	No
Addit D.L.o.	NB – Approach	F	0.55	,	.,
Millican Rd &	SB — Approach	F	0.45	Yes	Yes
Hwy 126	WB – Left	В	< 0.50		
	NB — Approach	F	>1.00		<del></del> .
Tom McCall Rd &	SB — Approach	F	>1.00		
Hwy 126	EB – Left	В	< 0.50	No	No
,	WB-Left	В	< 0.50		
Hwy 26 & Hwy 126 - SB	NB – Approach	F	>1.00	No	No
Hwy 26 & Hwy 126 – NB	SB – Approach	F	0.67	Yes	Yes
	NB – Left	A	< 0.50		
Parrish Ln &	SB — Left	Α	< 0.50	V	N. 1.1.
Wiley Rd	EB — Approach	Α	< 0.50	Yes	N/A
•	WB – Approach	A	< 0.50		
Parrish Ln & Site Access	WB – Left	Α	<0.50	Yes	N/A

**PM Peak Hour Intersection Operations - Year 2018 without Project (with Pending & Approved Development)** – Nine of the study intersections, as shown in Table 22, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2018 (with the pending and approved area development) for conditions without the proposed project.

There are six intersections, as shown in Table 22 that would not meet the Crook County operation standards or the ODOT mobility standards in this scenario:

- Powell Butte Highway and Alfalfa Road;
- Powell Butte Highway and Highway 126;
- Millican Road and Highway 126;
- Tom McCall Road and Highway 126;
- Highway 126 and Highway 26 SB (in Prineville); and,
- Highway 126 and Highway 26 NB (in Prineville).

The intersection of Veterans Way and Highway 126 is in the City of Redmond, this intersection would not meet the ODOT mobility standards (volume-capacity ratio of 0.80 or better) in the year 2018 (with the pending and approved area development) for conditions without the proposed project, as shown in Table 22.

TABLE 22 - PM PEAK HOUR INTERSECTION OPERATIONS - YEAR 2018 WITHOUT

PROJECT (WITH PENDING & APPROVED DEVELOPMENT)

INTERSECTION	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT MOBILITY STANDARDS MET?
Powell Butte Hwy &	SB – Left	В	< 0.50		
Alfalfa Rd	WB – Left	F	>1.00	No	No
7 silalia ita	WB – Right	C	< 0.50		
	NB – Left	Α	< 0.50		
Powell Butte Hwy &	SB – Left	Α	< 0.50	Yes	Yes
Riggs Rd	EB – Right	В	< 0.50	163	165
	WB – Approach	F	<0.50		
	NB – Left	F	>1.00		
Powell Butte Hwy &	NB – Right	F	>1.00	•	
Hwy 126	SB – Left	В	< 0.50	No	No
11999 120	EB – Left	Α	< 0.50		
	WB – Left	B	< 0.50		
				Would not	
Veterans Wy & Hwy	NB – Approach	F	>1.00	meet	No
126*	WB – Left	В	< 0.50	Redmond Standards	No
	NB – Approach	F	0.55		
Da: 1 Dal 9 Ll 104	SB – Left	Е	< 0.50	V	V
Reif Rd & Hwy 126	EB – Left	Α	< 0.50	Yes	Yes
	WB – Left	_ A	< 0.50		
Minson Rd & Hwy 126	EB – Left	A	<0.50	Yes	Yes
Parrish Ln &	SB – Right	С	< 0.50		
Hwy 126	EB – Left	A	< 0.50	Yes	Yes
Stillman (Riggs) Rd &	NB – Approach	D	< 0.50	V	· ·
Hwy 126	WB – Left	В	< 0.50	Yes	Yes
H 104 9 Wil D.I	EB – Left	■ F	< 0.50		
Hwy 126 & Wiley Rd	WB - Right	С	< 0.50	Yes	Yes
Millican Rd &	NB – Approach	F	>1.00		<del></del>
	SB — Approach	F	>1.00	No	No
Hwy 126	WB – Left	В	< 0.50		-
	NB – Approach	- F	>1.00	· · · · · · · · · · · · · · · · · · ·	
Tom McCall Rd &	SB — Approach	F	>1.00		
Hwy 126	EB Left	В	< 0.50	No	No
,	WB – Left	В	< 0.50		
Hwy 26 & Hwy 126 - SB	NB – Approach	F	>1.00	No	No
Hwy 26 & Hwy 126 – NB	SB – Approach	F	>1.00	No	No
	NB – Left	Α	< 0.50		
Parrish Ln &	SB – Left	Α	< 0.50	V	<b>.</b>
Wiley Rd	EB — Approach	A	< 0.50	Yes	N/A
,	WB – Approach	A	< 0.50		
Parrish Ln & SiteAccess			Not Built		-

PM Peak Hour Intersection Operations - Year 2018 with Project (with Pending & Approved Development) — Eight of the study intersections, as shown in Table 23, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2018 (with the pending and approved area development) for conditions with the proposed project.

There are six intersections, as shown in Table 23 that would not meet the Crook County operation standards or the ODOT mobility standards in this scenario:

- Powell Butte Highway and Alfalfa Road;
- Powell Butte Highway and Highway 126;
- Highway 126 and Wiley Road;
- Millican Road and Highway 126;
- Tom McCall Road and Highway 126;
- Highway 126 and Highway 26 SB (in Prineville); and,
- Highway 126 and Highway 26 NB (in Prineville).

The intersection of Veterans Way and Highway 126 is in the City of Redmond. This intersection would not meet the ODOT mobility standards in the year 2018 (with the pending and approved area development) for conditions with the proposed project, as shown in Table 23.

TABLE 23 - PM PEAK HOUR INTERSECTION OPERATIONS - YEAR 2018 WITH PROJECT

(WITH PENDING & APPROVED DEVELOPMENT)

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT MOBILITY STANDARDS MET?
Powell Butte Hwy &	SB – Left	В	< 0.50	· · ·	
Alfalfa Rd	WB – Left	F	>1.00	No	No
7 statia ita	WB – Right	C	0.51		
	NB - Left	Α	< 0.50		
Powell Butte Hwy &	SB – Left	Α	< 0.50	Yes	V
Riggs Rd	EB — Right	С	< 0.50	res	Yes
	WB – Approach	F	< 0.50		
	NB – Left	F	>1.00		<u> </u>
Powell Butte Hwy &	NB – Right	F	>1.00		
Hwy 126	SB – Left	В	< 0.50	No	No
11wy 120	EB — Le <del>ft</del>	Α	< 0.50		
	WB – Left	В	< 0.50		
***				Would not	
. Veterans Wy & Hwy	NB – Approach	F	>1.00	meet	
126*	WB – Left	В	< 0.50	Redmond Standards	No
	NB – Approach	F	>0.73		
D=:	SB — Left	F	< 0.50	Yes	.,
Reif Rd & Hwy 126	EB – Left	В	< 0.50		Yes
	WB – Left	В	< 0.50		
Minson Rd & Hwy 126	EB – Left	А	<0.50	Yes	Yes
Parrish Ln &	SB – Right	С	< 0.50		<del></del>
Hwy 126	EB – Left	A	< 0.50	Yes	Yes
Stillman (Riggs) Rd &	NB – Approach	D	<0.50		
Hwy 126	WB – Left	В	< 0.50	Yes	Yes
11 10/0 14/1 0 1	EB – Left	F	>1.00		
Hwy 126 & Wiley Rd	WB – Right	Ċ	< 0.50	No	No
Millican Rd &	NB – Approach	F	>1.00		<del>-</del>
	SB — Approach	F	>1.00	No	No
Hwy 126	WB – Left	В	< 0.50		
	NB – Approach	F	>1.00		
Tom McCall Rd &	SB — Approach	F	>1.00		
Hwy 126	EB – Left	В	< 0.50	No	No
•	WB – Left	В	< 0.50		
Hwy 26 & Hwy 126 - SB	SB – Approach	F	>1.00	No	No
Hwy 26 & Hwy 126 – NB	NB – Approach	ř. F	>1.00	No	No
	NB – Left	Α	<0.50	<del></del>	
Parrish Ln &	SB – Left	A	< 0.50		
Wiley Rd	EB – Approach	A	< 0.50	Yes	N/A
· = =	WB — Approach	A	< 0.50		
Parrish Ln & SiteAccess	EB – Approach	A	< 0.50	Yes	N/A
		- / 1	<u> </u>	1.03	17//\

**Saturday Peak Hour Intersection Operations - Year 2018 without Project (with Approved Development)** – All of the study intersections, as shown in Table 24, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2018 with the approved area development only for conditions without the proposed project.

TABLE 24 - SATURDAY PEAK HOUR INTERSECTION OPERATIONS - YEAR 2018 WITHOUT PROJECT (WITH APPROVED DEVELOPMENT)

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT MOBILITY STANDARDS MET?
Parrish Ln &	SB – Approach	D	< 0.50	Yes	Yes
Hwy 126	EB – Left	Α	< 0.50	i es	
Hwy 126 & Wiley Rd	EB — Approach	D	< 0.50	Yes	Yes
Parrish Ln &	EB – Left	Α	< 0.50		N1/A
Wiley Rd	WB – Right	Α	< 0.50	Yes	N/A
Parrish Ln & Site Access			Not Built		

**Saturday Peak Hour Intersection Operations (with Approved Development) - Year 2018 with Project** – All of the study intersections, as shown in Table 25, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2018 with the approved area development only for conditions with the proposed project.

TABLE 25 - SATURDAY PEAK HOUR INTERSECTION OPERATIONS (WITH APPROVED DEVELOPMENT) - YEAR 2018 WITH PROJECT

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT Mobility Standards Met?
Parrish Ln &	SB – Approach	С	<0.50	V	Yes
Hwy 126	EB – Left	В	< 0.50	Yes	
Hwy 126 & Wiley Rd	EB – Approach	F	0.56	Yes	Yes
Parrish Ln &	SB – Left	A	< 0.50		
	EB — Right	В	< 0.50	Yes	N/A
Wiley Rd	WB – Left	Α	< 0.50		
Parrish Ln & Site Access	EB – Left	А	<0.50	Yes	N/A

**Saturday Peak Hour Intersection Operations - Year 2018 without Project (with Pending Development)** – All of the study intersections, as shown in Table 26, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2018 with the pending and approved area development only for conditions without the proposed project.

TABLE 26 - SATURDAY PEAK HOUR INTERSECTION OPERATIONS - YEAR 2018 WITHOUT

PROJECT (WITH PENDING DEVELOPMENT)

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT MOBILITY STANDARDS MET?
Parrish Ln &	SB — Approach	D	< 0.50	V	Yes
Hwy 126	EB — Left	Α	< 0.50	Yes	
Hwy 126 & Wiley Rd	EB – Approach	D	< 0.50	Yes	Yes
Parrish Ln &	EB – Right	Α	< 0.50	V	N1/A
Wiley Rd	WB – Left	Α	< 0.50	Yes	N/A
Parrish Ln & Site Access			Not Built		

**Saturday Peak Hour Intersection Operations - Year 2018 with Project (with Pending Development)** – All of the study intersections, as shown in Table 27, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2018 with the pending and approved area development only for conditions with the proposed project.

TABLE 27 – SATURDAY PEAK HOUR INTERSECTION OPERATIONS (WITH PENDING DEVELOPMENT) - YEAR 2018 WITH PROJECT

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT MOBILITY STANDARDS MET?
Parrish Ln &	SB — Approach	D	< 0.50	V	
Hwy 126	EB – Left	В	< 0.50	Yes	Yes
Hwy 126 &	SB — Left	Α	< 0.50	Yes	Yes
Wiley Rd	EB – Approach	F	0.62		
	NB – Left	Α	< 0.50		
Parrish Ln &	SB — Left	Α	< 0.50	V	N1 / A
Wiley Rd	EB — Right	В	< 0.50	Yes	N/A
	WB — Approach	Α	< 0.50		
Parrish Ln & Site Access	WB – Left	Α	<0.50	Yes	N/A

**PM Peak Hour Intersection Operations - Year 2028 without Project (with Approved Development) -** Ten of the study intersections, as shown in Table 28, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2028 (with the approved area development) for conditions without the proposed project.

There are five intersections, as shown in Table 28 that would not meet the Crook County operation standards or the ODOT mobility standards in this scenario:

- Reif Road and Highway 126;
- Millican Road and Highway 126;
- Tom McCall Road and Highway 126;

- Highway 126 and Highway 26 SB (in Prineville); and,
- Highway 126 and Highway 26 NB (in Prineville).

The intersection of Veterans Way and Highway 126 is in the City of Redmond. This intersection would not meet the ODOT mobility standards in the year 2028 (with the approved area development) for conditions without the proposed project, as shown in Table 28.

TABLE 28 - PM PEAK HOUR INTERSECTION OPERATIONS - YEAR 2028 WITHOUT PROJECT

(WITH APPROVED DEVELOPMENT)

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT MOBILITY STANDARDS MET?
Powell Butte Hwy &	SB – Left	Α	< 0.50		
Alfalfa Rd	WB – Left	F	0.84	Yes	Yes
7 mana ka	WB – Right	В	<0.50		
	NB – Left	В	< 0.50		
Powell Butte Hwy &	SB — Left	В	< 0.50	Yes	Yes
Riggs Rd	EB — Right	В	< 0.50	163	162
	WB – Approach	D	< 0.50		
	NB – Left	F	>1.00		
Powell Butte Hwy &	NB – Right	F	>1.00		
Hwy 126	SB — Left	В	< 0.50	Yes	Yes
11111 120	EB – Left	Α	< 0.50		
<u>. —</u>	WB – Left	C	0.60		
				Would not	
Veterans Wy & Hwy	NB – Approach	F	>1.00	meet	No
126*	WB – Left	В	< 0.50	Redmond standards	No
	NB – Approach	F	>1.00	sidilidaras	
	SB — Right	F	<0.50		
Reif Rd & Hwy 126	EB – Left	В	< 0.50	No	No
	WB – Left	В	< 0.50		
Minson Rd & Hwy 126	EB – Left	В	<0.50	Yes	Yes
Parrish Ln &	SB – Right	С	< 0.50		
Hwy 126	EB – Left	В	< 0.50	Yes	Yes
Stillman (Riggs) Rd &	NB – Approach	F	< 0.50		
Hwy 126	WB – Left	В	< 0.50	Yes	Yes
Ll 107 8 14/1 D.l	EB Left	F	0.54		
Hwy 126 & Wiley Rd	WB – Right	F	< 0.50	Yes	Yes
Millican Rd &	NB — Approach	F	>1.00		
	SB — Approach	F	>1.00	No	No
Hwy 126	WB – Left	В	< 0.50		
	NB – Approach	F	>1.00		-
Tom McCall Rd &	SB – Approach	F	>1.00	k.t	<b>.</b> .
Hwy 126	EB – Left	В	< 0.50	No	No
	WB – Left	В	< 0.50		
Hwy 26 & Hwy 126 - SB	SB — Approach	F	>1.00	No	No
Hwy 26 & Hwy 126 – NB	NB – Approach	F	>1.00	No	No
	NB – Left	Α	<0.50		
Parrish Ln & Wilay Bd	EB — Approach	Α	< 0.50	Yes	Yes
Wiley Rd	WB – Approach	A	< 0.50		
Parrish Ln & Site Access	7.		Not Built		

**PM Peak Hour Intersection Operations - Year 2028 with Project (with Approved Development)** – Seven of the study intersections, as shown in Table 29, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2028 (with the approved area development) for conditions without the proposed project.

There are eight intersections, as shown in Table 29 that would not meet the Crook County operation standards or the ODOT mobility standards in this scenario:

- Powell Butte Highway and Alfalfa Road;
- Powell Butte Highway and Highway 126;
- Reif Road and Highway 126;
- Highway 126 and Wiley Road;
- Millican Road and Highway 126;
- Tom McCall Road and Highway 126;
- Highway 126 and Highway 26 SB (in Prineville); and,
- Highway 126 and Highway 26 NB (in Prineville).

The intersection of Veterans Way and Highway 126 is in the City of Redmond, this intersection would not meet the ODOT mobility standards in the year 2028 (with the approved area development) for conditions with the proposed project, as shown in Table 29.

TABLE 29 - PM PEAK HOUR INTERSECTION OPERATIONS - YEAR 2028 WITH PROJECT

(WITH APPROVED DEVELOPMENT)

INTERSECTION	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT MOBILITY STANDARDS MET?
Powell Butte Hwy &	SB — Left	А	<0.50		
Alfalfa Rd	WB – Left	F	0.95	No	No
	WB – Right	F	>1.00		
	NB – Left	Α	< 0.50		
Powell Butte Hwy &	SB – Left	Α	< 0.50	Yes	Yes
Riggs Rd	EB – Right	В	< 0.50	103	163
	WB – Approach	<u>E</u>	<0.50		
	NB – Left	F	>1.00		
Powell Butte Hwy &	NB – Right	F	>1.00		
Hwy 126	SB – Left	В	< 0.50	No ·	No
	EB – Left	A	< 0.50		·
111 0 11	WB – Left	C	0.70		<u>,,</u>
Veterans Wy & Hwy	NB – Approach	F	>1.00	No	No
126*	WB – Left	В	< 0.50		
	NB – Approach	F	>1.00		
Reif Rd & Hwy 126	SB — Right	F ·	< 0.50	No	No
,	EB – Left	В	< 0.50		
	WB – Left	В	<0.50		
Minson Rd & Hwy 126	EB – Left	В	< 0.50	Yes	Yes
Parrish Ln &	SB Right	D	< 0.50	Yes	Yes
Hwy 126	EB – Left	В	< 0.50	res	res
Stillman (Riggs) Rd &	NB – Approach	F	< 0.50	Yes	Yes
Hwy 126	WB – Left	В	<0.50	162	i es
Hwy 126 & Wiley Rd	EB – Le <del>ft</del>	F	>1.00	No	No
Tivy 120 & Wiley Ku	WB – Right	C	<0.50	140	NO
Millican Rd &	NB – Approach	F	>1.00		
Hwy 126	SB — Approach	F	>1.00	No	No
100	WB – Left	B	< 0.50		
	NB – Approach	F	>1.00		
Tom McCall Rd &	SB — Approach	F	>1.00	No	No
Hwy 126	EB Left	В	< 0.50	110	INO
	WB – Left	В	< 0.50		
Hwy 26 & Hwy 126 - SB	SB — Approach	F	>1.00	No	No
Hwy 26 & Hwy 126 – NB	NB – Approach	F	>1.00	No	No
	NB – Left	Α	< 0.50		
Parrish Ln &	.SB - Left	A	< 0.50	V	
Wiley Rd	EB — Approach	A	< 0.50	Yes	Yes
,	WB – Approach	A	< 0.50		
Parrish Ln & SiteAccess	WB – Left	Α	< 0.50	Yes	Yes

PM Peak Hour Intersection Operations (with Pending & Approved Development): Year 2028 without Project — Seven of the study intersections, as shown in Table 30, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2028 (with the pending and approved area development) for conditions without the proposed project.

There are eight intersections, as shown in Table 30 that would not meet the Crook County operation standards or the ODOT mobility standards in this scenario:

- Powell Butte Highway and Alfalfa Road;
- Powell Butte Highway and Highway 126;
- Reif Road and Highway 126;
- Stillman (Riggs) Road and Highway 126;
- Millican Road and Highway 126;
- Tom McCall Road and Highway 126;
- Highway 126 and Highway 26 SB (in Prineville); and,
- Highway 126 and Highway 26 NB (in Prineville).

The intersection of Veterans Way and Highway 126 is in the City of Redmond. This intersection would not meet the ODOT mobility standards in the year 2028 (with the pending and approved area development) for conditions without the proposed project, as shown in Table 30.

TABLE 30 - PM PEAK HOUR INTERSECTION OPERATIONS (WITH PENDING & APPROVED

DEVELOPMENT) - YEAR 2028 WITHOUT PROJECT

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT MOBILITY STANDARDS MET?
Powell Butte Hwy &	SB – Left	В	<0.50		
Alfalfa Rd	WB – Left	F	>1.00	No	No
	WB – Right	С	0.53		
	NB – Left	Α	< 0.50		
Powell Butte Hwy &	SB – Left	В	< 0.50	Yes	Yes
Riggs Rd	EB – Right	<u> </u>	< 0.50	103	103
	WB – Approach	F	<0.50		
	NB – Left	F	>1.00		
Powell Butte Hwy &	NB – Right	F	>1.00		
Hwy 126	SB – Left	В	< 0.50	No	No
11117 120	EB – Le <del>ft</del>	Α	< 0.50		
<del> </del>	WB – Left	D	0.75		·
				Would not	
Veterans Wy & Hwy	NB – Approach	F	>1.00	meet	No
126*	WB – Left	С	0.55	Redmond	NO
				standards	
	NB – Approach	F	>1.00		· · ·
Reif Rd & Hwy 126	SB — Right	F	< 0.50	No	No
Keli Ka a Tiwy 120	EB – Left	В	< 0.50	140	INO
	WB – <u>Left</u>	В	<0.50		
Minson Rd & Hwy 126	EB – Left	В	<0.50	Yes	Yes
Parrish Ln &	SB – Right	С	< 0.50	V	
Hwy 126	EB – Left	В	< 0.50	Yes	Yes
Stillman (Riggs) Rd &	NB – Approach	F	>1.00	NI-	NI.
Hwy 126	WB – Left	F	>1.00	No	No
Hwy 126 & Wiley Rd	EB – Left	F	0.58	V	V
Tiwy 120 & Wiley Ku	WB – Right	С	< 0.50	Yes	Yes
Millican Rd &	NB – Approach	F	>1.00		
Hwy 126	SB — Approach	F	>1.00	No	No
11wy 120	WB – Left	С	< 0.50		
	NB – Approach	F	>1.00		
Tom McCall Rd &	SB – Approach	F	>1.00	NI.	NI.
Hwy 126	EB Left	В	< 0.50	No	No
	WB – Left	В	< 0.50		
Hwy 26 & Hwy 126 - SB	SB – Approach	F	>1.00	No	No
Hwy 26 &		<del> </del>	<u></u>		
Hwy 126 – NB	NB – Approach	F	>1.00	No	No
Parrish Ln &	NB – Left	Α	< 0.50		
Wiley Rd	EB — Approach	Α	< 0.50	Yes	N/A
	WB – Approach	Α	<0.50		
Parrish Ln & SiteAccess			Not Built		-

**PM Peak Hour Intersection Operations (with Pending & Approved Development): Year 2028 with Project** – Six of the study intersections, as shown in Table 31, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2028 (with the pending and approved area development) for conditions with the proposed project.

There are nine intersections, as shown in Table 31 that would not meet the Crook County operation standards or the ODOT mobility standards in this scenario:

- Powell Butte Highway and Alfalfa Road;
- Powell Butte Highway and Highway 126;
- Reif Road and Highway 126;
- Stillman (Riggs) Road and Highway 126;
- Highway 126 and Wiley Road;
- Millican Road and Highway 126;
- Tom McCall Road and Highway 126;
- Highway 126 and Highway 26 SB (in Prineville); and,
- Highway 126 and Highway 26 NB (in Prineville).

The intersection of Veterans Way and Highway 126 is in the City of Redmond. This intersection would not meet the ODOT mobility standards in the year 2028 (with the pending and approved area development) for conditions with the proposed project, as shown in Table 31.

TABLE 31 - PM PEAK HOUR INTERSECTION OPERATIONS (WITH PENDING & APPROVED DEVELOPMENT) - YEAR 2028 WITH PROJECT

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT MOBILITY STANDARDS MET?
Powell Butte Hwy &	SB — Left	В	< 0.50		
Alfalfa Rd	WB – Left	F	>1.00	No	No
	WB – Right	C	0.56		
	NB - Left	Α	< 0.50		
Powell Butte Hwy &	SB — Left	Α	< 0.50	Yes	Yes
Riggs Rd	EB – Right	В	< 0.50	162	res
	WB – Approach	F	0.51		
	NB - Left	F	>1.00		
Powell Butte Hwy &	NB – Right	· F	>1.00		
Hwy 126	SB — Left	В.	< 0.50	No	No
11117 120	EB – Left	Α	< 0.50		
	WB – Left	E	0.87		
				Would not	
Veterans Wy & Hwy 126*	NB – Approach WB – Left	F C	>1.00 0.57	meet Redmond	No
	NID A		1.00	standards	
	NB – Approach	F	>1.00		
Reif Rd & Hwy 126	SB Right	F	>1.00	No	No
·	EB – Left	В	< 0.50		
Minson Rd &	WB – Left_	B	<0.50		
Hwy 126	EB Left	В	< 0.50	Yes	Yes
Parrish Ln &	SB — Right	D	< 0.50	Yes	Yes
Hwy 126	EB – Left	В	< 0.50	162	165
Stillman (Riggs) Rd &	NB – Approach	F	>1.00	No	No
Hwy 126	WB – Left	F	>1.00	140	140
Hwy 126 & Wiley Rd	EB – Left	F	>1.00	No	No
	WB — Right	_ C	< 0.50	110	INO
Millican Rd &	NB – Approach	F	>1.00		
Hwy 126	SB — Approach	F	>1.00	No	No
	WB – Left	C	< 0.50		
	NB – Approach	F	>1.00		
Tom McCall Rd &	SB — Approach	F	>1.00	No	· No
Hwy 126	EB – Left	В	< 0.50	INO	140
	WB – Left	В	<0.50		
Hwy 26 & _Hwy 126 - SB	SB – Approach	F	>1.00	No	No
Hwy 26 & Hwy 126 – NB	NB – Approach	F	>1.00	No	No
	NB – Left	Α	<0.50		
Parrish Ln &	EB — Approach	A	< 0.50	Yes	N/A
Wiley Rd	WB – Approach	A	< 0.50	. 50	. 1/1
Parrish Ln & Site Access	WB – Left	A	<0.50	Yes	N/A

Saturday Peak Hour Intersection Operations (with Approved Development) - Year 2028 without Project – All of the study intersections, as shown in Table 32, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2028 with the approved area development only for conditions without the proposed project.

TABLE 32 – SATURDAY PEAK HOUR INTERSECTION OPERATIONS - YEAR 2028 WITHOUT PROJECT (WITH APPROVED DEVELOPMENT)

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT MOBILITY STANDARDS MET?	
Parrish Ln &	SB — Approach	F	< 0.50	V		
Hwy 126	EB – Left	В	< 0.50	Yes	Yes	
Hwy 126 &	SB – Left	A	< 0.50	V		
Wiley Rd	EB – Approach	Е	< 0.50	Yes	Yes	
Parrish Ln &	NB – Left	Α	< 0.50		•	
Wiley Rd	EB — Right	Α	< 0.50	Yes	Yes	
	WB – Left	Α	< 0.50			
Parrish Ln & Site Access			Not Built			

**Saturday Peak Hour Intersection Operations - Year 2028 with Project (with Approved Development)** – All of the study intersections, as shown in Table 33, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2028 with the approved area development only for conditions with the proposed project.

TABLE 33 - SATURDAY PEAK HOUR INTERSECTION OPERATIONS - YEAR 2028 WITH PROJECT (WITH APPROVED DEVELOPMENT)

Intersection	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT MOBILITY STANDARDS MET?	
Parrish Ln &	SB – Approach	F	0.68	V	V	
Hwy 126	EB – Left	В	< 0.50	Yes	Yes	
Hwy 126 &	SB — Left	Α	< 0.50	V		
Wiley Rd	<b>E</b> B – Approach	F	0.94	Yes	Yes	
	NB – Left	Α	< 0.50	· · · · · · · · · · · · · · · · · · ·		
Parrish Ln &	SB — Left	Α	< 0.50	V.	V	
Wiley Rd	EB — Right	В	< 0.50	Yes	Yes	
	WB – Approach	Α	< 0.50			
Parrish Ln & Site Access	WB – Left	Α	<0.50	Yes	Yes	

Saturday Peak Hour Intersection Operations - Year 2028 without Project (with Pending Development) - All of the study intersections, as shown in Table 34, were forecast to meet Crook County operation standards and ODOT mobility standards

in the year 2028 with the pending and approved area development only for conditions without the proposed project.

TABLE 34 - SATURDAY PEAK HOUR INTERSECTION OPERATIONS (WITH PENDING DEVELOPMENT) - YEAR 2028 WITHOUT PROJECT

Intersection	MOVEMENT	LEVEL VOLUME - OF CAPACITY SERVICE (V/C)		CROOK COUNTY OPERATION STANDARDS MET?	ODOT Mobility Standards Met?	
Parrish Ln &	SB – Approach E <0.50		Yes	V		
Hwy 126	EB – Left	Α	< 0.50	res	Yes	
Hwy 126 &	SB — Left	Α	< 0.50	V		
Wiley Rd	EB — Approach	E	< 0.50	Yes	Yes	
Parrish Ln &	NB – Left	A	< 0.50			
Wiley Rd	EB - Right	Α	< 0.50	Yes	Yes	
witey Ka	WB – Approach	Α	< 0.50			
Parrish Ln & Site Access			Not Built			

**Saturday Peak Hour Intersection Operations (with Pending Development) - Year 2028 with Project** – All of the study intersections, as shown in Table 35, were forecast to meet Crook County operation standards and ODOT mobility standards in the year 2028 with the pending and approved area development only for conditions with the proposed project.

TABLE 35 - SATURDAY PEAK HOUR INTERSECTION OPERATIONS (WITH PENDING DEVELOPMENT) - YEAR 2028 WITH PROJECT

INTERSECTION	MOVEMENT	LEVEL OF SERVICE	VOLUME - CAPACITY RATIO (V/C)	CROOK COUNTY OPERATION STANDARDS MET?	ODOT MOBILITY STANDARDS MET?	
Parrish Ln &	SB — Approach	E	0.64	V	V	
Hwy 126	EB – Left	В	< 0.50	Yes	Yes	
Hwy 126 &	SB — Left	Α	< 0.50			
Wiley Rd	EB – Approach	F	0.87	Yes	Yes	
	NB – Left	Α	< 0.50			
Parrish Ln &	SB Left	Α	< 0.50	V		
Wiley Rd	EB – Right	В	< 0.50	Yes	Yes	
	WB – Approach	Α	< 0.50			
Parrish Ln & . Site Access	WB – Left	Α	<0.50	Yes	Yes	

#### **SEGMENT ANALYSIS**

As requested by ODOT and Crook County a segment analysis was preformed to ascertain whether or not the existing two lanes on Highway 126 would accommodate future traffic flow. This project forecast a traffic flow of over 1,200 vehicles in the highest direction on many segments during peak periods. At this

level of traffic flow (about one vehicle every three seconds on the average), the following is anticipated:

- It would be very difficult for vehicles to enter or cross the highway from a stop-controlled approach during peak periods.
- If there are slow moving vehicles, there will be long-queues behind.
- At intersections where there are large left-turn flows from the highway, it will be difficult to find a gap to make the turn.

The implication is that there will be a need for a four-lane section Highway 126, grade separated interchanges, turn restrictions at intermediate intersections between grade-separated interchanges, and desirably connecting streets that run parallel to the highway. Except for the last item, this is consistent with the the Crook County TSP.

#### TRAFFIC SIGNAL WARRANTS

There are a number of traffic signal warrants, of which at least one must be met to justify the installation of a new traffic signal. These warrants reflect a minimum threshold under which a traffic signal should not be installed. In general, unwarranted traffic signals can lead to increased delay, more accidents, and unnecessary spending. For all of these reasons, unwarranted traffic signals are highly discouraged.

There are ten intersections that were forecast to exceed the Crook County operation standards or the ODOT mobility standards in one of the years analyzed for this report. The peak hour traffic signal warrant was checked at each of the following intersections (Calculations in Appendix K) presented by scenario under which each intersection is forecast to no longer meet operation standards:

## Year 2008 (with approved development only) without the proposed project -

- Powell Butte Highway and Highway 126;
- Tom McCall Road and Highway 126; and,
- Highway 26 and Highway 126 SB

All three intersections would meet the peak hour traffic signal warrant in the year 2008 (with approved area development only) for conditions without the proposed project.

## Year 2008 (with all pending development) without the proposed project -

- Millican Road and Highway 126 and
- Veterans Way and Highway 126

The intersection of Millican Road and Highway 126 would not meet the peak hour traffic signal warrant in any of the years analyzed in this report.

The intersection of Veterans Way and Highway 126 would meet the peak hour traffic signal warrant in this scenario.

## Year 2018 (with approved development only) with proposed project -

Highway 126 and Wiley Road

The intersection would not meet the peak hour traffic signal warrant in the year 2018 (with approved development only) for conditions with the proposed project.

#### Year 2018 (with all pending development) without proposed project -

- Powell Butte Highway and Alfalfa Road; and
- Highway 26 and Highway 126 NB

Both intersections would meet the peak hour traffic signal warrant.

#### Year 2028 (with approved development only) without proposed project -

Reif Road and Highway 126

The intersection of Reif Road and Highway 126 would not meet the peak hour traffic signal warrant in the year 2028 for conditions without the proposed project.

## Year 2028 (with all pending development) without proposed project -

Stillman Road and Highway 126

The intersection of Stillman Road and Highway 126 would not meet the peak hour traffic signal warrant in the year 2028 for conditions without the proposed project.

#### SIGHT DISTANCE

Sight distance is a measure of how far a driver can see the road and/or other vehicles from various points in the roadway. Sight distance is measured in different ways and acceptable sight distance varies, depending on the type of sight distance that is important for a particular segment of road or intersection.

**Stopping Sight Distance Guidelines** - Stopping sight distance is the minimum required distance for a vehicle to stop before reaching a stationary object in its path. The standard assumptions used to determine minimum stopping sight distance are: Wet pavement, a driver's vision height of 3.5 feet, and a stationary object 2.0 feet high (A Policy on Geometric Design of Highways and Streets, AASHTO, 2004). Table 36 shows the AASHTO guidelines for stopping sight distance at a given speed.

**Intersection Sight Distance Guidelines** - Intersection sight distance is the distance a driver can see from a stop-controlled approach to an intersection. The

measurement is typically taken from a point about 14.4 feet back from the edge of the travel-way at a height of 3.5 feet to a height of 3.5 feet in the travel lane. The AASHTO intersection sight distance guidelines, as shown in Table 36 reflect the minimum distance that a driver needs to be able to see while stopped at an intersection so that the driver may proceed without slowing vehicles on the main street by more than 15 percent. The distance required for a left-turn is slightly longer than the distance for a right-turn.

TABLE 36 - AASHTO GUIDELINES FOR STOPPING AND INTERSECTION SIGHT DISTANCE

DESIGN SPEED	STOPPING SIGHT DISTANCE (FT.)	Intersection Sight Distance For Left-Turns From Stop (ft.) (1)	Intersection Sight Distance for Right- turns from Stop and Crossing Maneuver (ft.) (2)
15	80	170	145
20	115	225	195
25	155	280	240
30	200	335	290
35	250	390	335
40	305	445	385
45	360	500	430
50	425	555	480
55	495	610	530
60	570	665	575
65	645	720	625
70	730	775	670
75	820	830	720
80	910	885	765

Source: A Policy on Geometric Design of Highways and Streets, AASHTO 2004

**Sight Distance at Study Intersections** - Stopping sight distance and intersection sight distance was measured at the following study intersections:

- Parrish Lane and Highway 126;
- Highway 126 and Wiley Road;
- Parrish Lane and Wiley Road; and,
- The Main Site Access off Parrish Lane.

A summary of the measured sight distance is shown in Table 37. Field measurements at the study intersections can be found in Appendix L.

<sup>(1)</sup> Minimum distance to the right from the stopped approach

<sup>(2)</sup> Minimum distance to the left for the right turn movements and in both directions for the stopped movement.

TABLE 37 - MEASURED SIGHT DISTANCE

			MEASURE	DISTANCE	
Intersection	MEASUREMENTS AND GUIDELINES	STOPPIN DIST		INTERSECT DIST	
		To RIGHT	To LEFT	To RIGHT	To Left
Parrish Lane &	Measured Sight Distance	>1,000	1,280	>1,000	1,280
Highway 126	Meets Guideline for 55 mph?	Yes	Yes	Yes	Yes
Highway 126 &	Measured Sight Distance	1,060	1,270	1,060	1,270
Wiley Road	Meets Guideline for 55 mph?	Yes	Yes	Yes	Yes
Parrish Lane &	Measured Sight Distance	>1,000	>1,000	>1,000	>1,000
Wiley Road*	Meets Guideline for 55 mph?	Yes	Yes	Yes	Yes
The Main Site	Measured Sight Distance	>1,000	>1,000	>1,000	>1,000
Access off Parrish Lane*	Meets Guideline for 55 mph?	Yes	Yes	Yes	Yes

Notes: \*Speed Limit is not posted, assumed 55 miles per hour.

#### SPEED CHANGE LANES

Speed-change lanes (acceleration/deceleration lanes) are auxiliary lanes that accommodate traffic entering or leaving a roadway. Speed-change lanes are used primarily on high-speed, limited access roadways. Speed-change lanes are not typically constructed on the City's arterial/collector streets.

#### **LEFT-TURN WARRANTS**

The purpose of a left-turn storage lane is to provide a waiting area for vehicles to turn left while waiting for a gap so that through vehicles do not stack behind the left turning vehicles. The analysis applies to traffic on a major street that is not controlled by a traffic signal or stop sign while turning left to a minor street. When warrants are met, the left-turn lane can improve capacity and safety.

The guideline for adding a left-turn lane was checked at all study intersections that do not have an existing left-turn lane on the uncontrolled approach:

- Powell Butte Highway and Riggs Road;
- Veterans Way and Highway 126;
- Reif Road and Highway 126;
- Minson Road and Highway 126;
- Parrish Lane and Highway 126;
- Highway 126 and Wiley Road;
- Millican Road and Highway 126, and

Tom McCall Road and Highway 126.

All of the intersections except Powell Butte Highway and Riggs Road would meet the guideline for adding a left-turn lane on Highway 126 (the uncontrolled approaches) under existing conditions (counted traffic only). The calculations can be found in Appendix M.

The intersection of Powell Butte Highway and Riggs Road would meet the guideline for adding a left-turn lane in the year 2008 (with approved development only) for conditions without the proposed project.

#### **MITIGATION MEASURES**

Mitigation measures are explored as possible strategies for resolving existing or future operational deficiencies that were identified in this analysis. The following are strategies listed in the Crook County Transportation System Plan, proposed in transportation impact analyses prepared for other recent development or have been identified by Ferguson & Associates, Inc.

As noted above, there are ten study intersections that would not meet either the Crook County operation standards or the ODOT mobility standards in one of the analysis scenarios included in this report. The intersections are summarized in Table 38.

TABLE 38 - INTERSECTION FORECAST TO NOT MEET OPERATION STANDARDS

		SCENARIO	STANDARD MET			
Intersection	STANDARD	(with all Pending Area development)	2008	2018	2028	
Powell Butte Highway and	Both	no Project	No	No	No	
Highway 126	BOIII	with Project	No	No	No	
Tom McCall Road and	Both	no Project	No	No	No	
Highway 126	2011	with Project	No	No	No	
Highway 126 and Highway	Both	no Project	No	No	No	
26 – SB	Bolli	with Project	No	No	No	
Millican Road and Highway	Both	no Project	No	No	No	
126	BOIII	with Project	No	No	No	
Highway 126 and Highway	Both	no Project	No	No	No	
26 – NB	BOIII	with Project	No	No	Νo	
Veterans Way and Highway	Both	no Project	No	No	No	
126	DOM	with Project	No	Νo	No	
Highway 126 and	Both	no Project	Yes	Yes	Yes	
Wiley Road	DQIII	with Project	Yes	No	No	
Powell Butte Highway and	Crook County	no Project	Yes	No	No	
Alfalfa Road	Crook County	with Project	Yes	No	No	
Reif Road and	Both	no Project	Yes	Yes	No	
Highway 126	וווסם	with Project	Yes	Yes	No	
Stillman Road and Highway	Both	no Project	Yes	Yes	No	
126	DOM	with Project	Yes	Yes	No	

**Powell Butte Highway and Highway 126** – The planned mitigation for this intersection, as listed in the Crook County TSP and in other transportation impact analysis reports, is an interchange. ODOT and Crook County are currently working out the funding mechanism for this improvement. The proposed interchange is planned to be under construction by the year 2012. Since the project is in the preliminary design phase, it was assumed that the new interchange would be designed to accommodate the forecast traffic flows.

**Tom McCall Road and Highway 126** - The planned mitigation for this intersection, as listed in the Crook County TSP and in other transportation impact analysis reports, is an interchange that also incorporates the intersection of Millican Road and Highway 126.

Millcan Road and Highway 126 - The planned mitigation for this intersection, as listed in the Crook County TSP and in other transportation impact analysis reports,

is an interchange that also incorporates the intersection of Millican Road and Highway 126.

**Highway 126 and Highway 26 (Prineville)** – The proposed project was forecast to add less than 50 p.m. peak hour trips to this intersection.

Veterans Way and Highway 126 – This intersection was forecast to not meet the City of Redmond operation standards or the ODOT mobility standards in the year 2008 for conditions with the approved and pending area development without the proposed project. The intersection was forecast to meet the peak hour traffic signal warrant under this scenario. As noted in the Traffic Impact Analysis for Hidden Canyon Resort (Kittelson & Associates, Inc; August 2006), a traffic signal planned for this intersection as per the City of Redmond TSP.

Highway 126 and Wiley Road – This intersection would exceed both the Crook County operation standards and the ODOT mobility standards in the year 2018 for conditions with the proposed project. When Highway 126 is widened to four lanes, this intersection is planned to be closed. By the year 2018, it would be desirable to restrict turns to right-in, right-out until the intersection is closed completely. The closure of this intersection is likely to increase eastbound left-turns at Tom McCall Road and Highway 126. The planned interchange at that location could be designed and constructed to accommodate this additional traffic.

Powell Butte Highway and Alfalfa Road — The intersection of Powell Butte Highway and Alfalfa Road is planned to be improved during the summer of 2007. This analysis assumed that the construction would be completed by August 2007 (as has been assumed for other studies as per direction from Crook County staff). The Transportation Impact Analysis Hidden Canyon Resort (Kittelson & Associates, Inc; August 2006) states that the intersection will operate acceptably with the improvements in place (page 32). The level of service calculations found in the Appendix of the Hidden Canyon Resort TIA, shows that the intersection would operation at LOS F with a volume-capacity ratio of 0.94. Although this does meet the Crook County operation standard, the intersection would not operate acceptably by any reasonable person regardless of the standard. Volume-capacity ratios do not correlate well with Levels of Service.

The intersection of Powell Butte Highway and Alfalfa Road would meet the peak hour traffic signal warrant in the year 2018 for conditions without the proposed project, as noted on page 89. A traffic signal tends to be an urban solution so would not be a desirable improvement at this rural intersection. Other mitigation options include a roundabout or an interchange. Another solution would be for Hidden Canyon Resort (which has not been approved as of the writing of this report) to provide additional access locations to decrease its impact at the intersection of Powell Butte Highway and Alfalfa Road and at the intersection of Millican Road and Highway 126.

**Reif Road and Highway 126** – This intersection would not meet the Crook County operation standards or the ODOT mobility standards in the year 2028 for conditions with or without the proposed project. The intersection would not meet the peak hour traffic signal warrant and it is relatively close to the planned interchange at Powell Butte Highway and Highway 126. Turns at this intersection could be restricted to right-in, right-out. At the time that the turns are restricted, some east-west connection on the north side of Powell Butte could be provided to connect to the new intersection.

**Stillman Road and Highway 126** – The proposed project would not add any p.m. peak hour or Saturday peak hour trips to this intersection.

As shown above, mitigation measure would be needed at the above listed study intersections. A summary of the needed mitigation by intersection is shown in Table 39.

**TABLE 39 - INTERSECTION MITIGATION** 

INTERSECTION	MITIGATION	COMMENTS
Powell Butte Highway and Highway 126	Interchange	Interchange is listed in the Crook County TSP. It would be needed sometime before all of the approved and pending development is built. The proposed Seven Peaks Resort does not cause the need for the improvement
Tom McCall Road and Highway 126	Interchange	Interchange is listed in the Crook County TSP. It would be needed sometime before all of the approved and pending development is built. The proposed Seven Peaks Resort does not cause the need for the improvement
Millican Road and Highway 126	Interchange	Interchange is listed in the Crook County TSP. It would be needed sometime before all of the approved and pending development is built. The proposed Seven Peaks Resort does not cause the need for the improvement
Veterans Way and Highway 126	Traffic Signal	The intersection would meet the peak hour traffic signal warrant in the year 2008 for conditions with the approved and pending in-process development but without the proposed project. The City of Redmond TSP lists a traffic signal at this location.
Highway 126 and Wiley Road	Restrict Turns	The intersection is planned to be closed when Highway 126 is widened to four lanes. Until such time that the intersection is closed, turns could be restricted to right-in, right-out. A turn restriction at Wiley Road would likely increase the number of turns at Tom McCall Road. The planned interchange at that intersection could be designed to accommodate the additional traffic.
Powell Butte Highway and Alfalfa Road	Interchange	No improvement listed in the Crook County TSP. The peak hour traffic signal warrant would be met in the year 2018 for conditions without the proposed project. A traffic signal would not be a desirable improvement at this location due to its rural nature.
Reif Road and Highway 126	Restrict Turns	The intersection would not meet operation standards in the year 2028. The intersection would not meet the peak hour traffic signal warrant at that time. Turns could be restricted and an east-west connection to the planned Powell Butte Highway interchange could be provided.

## FINDINGS AND CONCLUSIONS

The proposed Seven Peaks Resort would have up to 735 units. At build-out the resort was forecast to generate 235 p.m. peak hour trips, 325 Saturday peak hour trips and 2,352 daily trips.

There were ten study intersections that were forecast to exceed Crook County operation standards or ODOT mobility standards in at least one of the analysis years included in this report, as shown above.

Existing operations are not nearly as congested as indicated by what is shown in a 2008 analysis. The reason for this is that 2008 forecasts include 10 or more year's growth from already approved projects. While this is not a universal approach to forecasting traffic, ODOT prefers to include the build-out traffic of other projects even if these projects will not be built and occupied for 10 or more years. The philosophy behind this approach is that approved projects (in-effect) "reserved" available capacity over the next 10 years or so by virtue of being an early applicant. The reality, however, is that the failures identified will not occur until sometime beyond 2008 in most cases. Rather than providing speculative analysis to determine when improvements need to be constructed, the following guidance is suggested. In the case of interchanges, the planning and construction can take some time. A 3 to 5 year minimum lead time is anticipated to address all planning requirements, secure ROW and funding, and then to engineer and construct the interchanges; thus, with a 10-year build out for the approved/planning destination resorts in would be prudent to begin this process within the next five years. For traffic signal needs, it is suggested that traffic flow be monitored and that the signal not be constructed until such time that traffic signal warrants are met.

The AASHTO guidelines for intersection sight distance and stopping sight distance would be met at the site access intersection off Parrish Lane and at the two locations were the site generated traffic would enter the highway system.

The guideline for adding a left-turn lane would be met at each intersection with Highway 126 under existing conditions (counted traffic only).

APPENDIX B – OTAK 2008
ANALYSIS OF TRAFFIC
IMPACTS TO STATE
HIGHWAYS FROM THE
PROPOSED CROSSING
TRAILS DESTINATION
RESORT

CROOK COUNTY PLANNING DEPT.

JUL 0 1 2008

RECEIVED TIME:

# Memorandum



333 SW Upper Terrace Drive Bend, OR 97702 Phone (541) 385-9960 Fax (541) 312-8704 To:

Bill Zelenka, Planning Director

Heidi Bauer, Land Use Counsel and Planner

From:

Duncan Brown, Senior Planner

Copies:

file

Date:

July 1, 2008

Subject:

Analysis of Traffic Impacts to State Highways from

the Proposed Crossing Trails Destination Resort

Project No.:

14031C

The purposes of this memorandum are to guide the Planning Commission in identifying traffic impacts to State Highways that are projected to be generated by the development of the Crossing Trails Destination Resort using Crook County Code approval criteria, determine if the mitigation costs requested by the Oregon Department of Transportation (ODOT) are proportional to the level of impacts generated, and if the mitigation costs are not proportional, what is an appropriate proportional cost.

#### Crook County Approval Criteria Relating to Traffic Impacts

The applicable sections under which traffic impacts must be measured by the County are contained 18.116.100(6), which state:

18.116.100 Approval criteria.

The planning commission or county court shall approve a development plan for a destination resort if it determines that all of the following criteria are met:

- (6) The development will not have a significant adverse impact on fish and wildlife, taking into account mitigation measures.
  - (a) The traffic study required by CCC 18.116.080(3)(g) illustrates that the proposed development will not significantly affect a transportation facility. A resort development will significantly affect a transportation facility for purposes of this approval criterion if it would, at any point within a 20-year planning period:
    - (i) Change the functional classification of the transportation facility;
    - (ii) Result in levels of travel or access which are inconsistent with the functional classification of the transportation facility; or
    - (iii)Reduce the performance standards of the transportation facility below the minimum acceptable level identified in the applicable transportation system plan (TSP).

Bill Zelenka, Planning Director Heidi Bauer, Land Use Counsel and Planner Page 2

Analysis of Traffic Impacts to State Highways from the Proposed Crossing Trails Destination Resort

July 1, 2008

The Oregon Department of Transportation notes in a June 3, 2008 letter to the Planning Director that the State "...bases its traffic operation standards based on volume to capacity (v/c) ratio and not level of service..." This approach has been incorporated into the Crook County *Transportation System Plan*, which states:

"The Oregon Department of Transportation bases its traffic operation standards based on volume to capacity (v/c) ratio and not level of service. For ODOT facilities, each type of facility has its own standard. Table 4-1 summarizes the v/c standard by ODOT facility type. The standard documented in Table 4-1 is from the 1999 Oregon Highway Plan."

(Crook County Transportation System Plan, December 2005, Subsection 4.2. Intersection Levels of Service and V/C Ratio Analysis).

The Oregon Department of Transportation not only identifies the v/c ratio as the performance standard, but further states:

"Regarding (iii), the applicable TSP is the OHP, because ODOT owns the highway, and because the county's TSP defers to the OHP. The TPR states that any reduction below the "minimum acceptable performance standard identified in the TSP" would be a "significant effect." The OHP's performance standard, under Policy 1F.6 is to avoid further degradation. We believe that the county's standard refers to the "minimum acceptable level," not a specific performance level, and that applicable standard would be the OHP standard to "avoid further degredation." So the minimum acceptable level identified in the applicable transportation system plan, for purposes of the county's section 18.116.080(6)(a)(iii) would be to "avoid further degredation" as stated in the OHP policy."

(Oregon Department of Transportation letter to the Crook County Planning Director, June 3, 2008, p.4, para. 8)

This interpretation by ODOT appears to conflict with the Crook County Code and literal reading of the 1999 Oregon Highway Plan in three major areas:

- Neither the Crook County Development Code nor the Transportation System Plan "defers" to the 1999
   Oregon Highway Plan (OHP) for State-owned or controlled highways. It simply acknowledges that
   the State uses the v/c ratio as the performance standard instead of the more commonly-accepted
   Level of Service and allows it to be used in analyzing traffic impacts.
- 2. The County identifies the v/c ratio for minimum acceptable performance standard as the County standard for State-owned or controlled highways (Transportation System Plan pp 4-1 4-3). These ratios are identical to those identified by ODOT (ODOT letter to the Crook County Planning Director, June 3, 2008, p.3, Table 4-1). No other standards are listed in either the Crook County Development Code or Transportation System Plan for evaluation of State-owned or

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July 1, 2008

controlled highways. It is only these performance standards that the County must use to evaluate traffic impacts from development to State-owned or controlled highways.

3. The 1999 Oregon Highway Plan Policy 1F6 states in part:

#### Action 1F.6

For purposes of evaluating amendments to transportation system plans, acknowledged comprehensive plans and land use regulations subject to OAR 660-12-060, in situations where the volume to capacity ratio for a highway segment, intersection or interchange is above the standards in Table 6 or Table 7, or those otherwise approved by the Commission, and transportation improvements are not planned within the planning horizon to bring performance to standard, the performance standard is to avoid further degradation. If an amendment to a transportation system plan, acknowledged comprehensive plan or land use regulation increases the volume to capacity ratio further, it will significantly affect the facility. (emphasis added)
(1999 Ongon Highway Plan p. 82)

The land use review before the Crook County Planning Commission is for a Destination Resort (Conditional Use) and not an amendment to a Transportation System Plan, acknowledged Comprehensive Plan, or land use regulation. Use of this policy and the incorporated standard to "avoid further degradation" by ODOT is not appropriate for this land use review by the County.

#### Standard by Which Traffic Impacts Should Be Measured

As noted previously, the v/c ratio identified in the *Crook County Transportation System Plan* is the appropriate standard by which the County should determine traffic impacts. State Highway 126 and Highway 26 are both identified as receiving traffic impacts from the proposed destination resort. Both are designated Statewide Highways and Freight Routes, so the "minimal acceptable level" required by the Crook County Code and identified in the Crook County Transportation System Plan is a v/c ratio of 0.70 for both unincorporated communities and rural lands (*Crook County Transportation System Plan*, Table 4-1).

## Development Assumptions on Which Traffic Impacts Are Determined

Traffic impacts at identified intersections have been analyzed for the years 2008, 2018, and 2028, assuming three levels of Crook County development: without the project but with all other pending and approved development, with the project and only approved (not pending) development, and with the project and all other pending and approved development. To retain consistency with the traffic levels generated by non-Crossing Trails land uses, the comparison of impacts assuming all approved and proposed development is appropriate.

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### Differences in Traffic Impacts Attributable to the Destination Resort

Following is a summary table for the projected v/c ratios for turning movements at the intersections identified by ODOT for the years 2008, 2018, and 2028 with and without the proposed project.

Table 1

Impact of Crossing Trails on the Volume/Capacity (v/c) Ratio for Selected Intersections

Intersection	Movement	Projected v/c Ratio (with pending and approved development)						v/c Ratio Standard Exceeded	
-17, 2, 2, 28 4.7 M	L'Assible M		2008 2018 2028						
		without project	with project	without project	with project	without project	with project	without project	due to project
Powell Butte Hwy and	NB-left	>1.00	>1.00	>1.00	>1.00	>1.00	>1.00	2008, 2018, 2028	no
Hwy 126	NB-right	0.89	>1.00	>1.00	>1.00	>1.00	>1.00	2008, 2018, 2028	пo
	SB-right	<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50	no	no
	EB-left	<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50	no	no
	WB-left	<0.50	0.53	<0.50	< 0.50	0.75	0.87	2028	no
Veterans Wy and Hwy 126	NB-approach	>1.00	>1.00	>1.00	>1.00	>1.00	>1.00	2008, 2018, 2028	no
	WB-left	<0.50	< 0.50	<0.50	< 0.50	0.55	0.57	no	no
Reif Road	NB-approach	< 0.50	< 0.50	0.55	0.73	>1.00	>1.00	2028	2018
and Hwy 126	SB-right	<0.50	< 0.50	<0.50	< 0.50	<0.50	>1.00	no	2028
	EB-left	<0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	no	no
	WB-left	< 0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	no	no
Parrish Ln	SB-right	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	no	no
and Hwy 126*	EB-left	<0.50	>0.70	<0.50	>0.70	< 0.50	>0.70	no	2008
Millican Rd and Hwy 126	NB-approach	>1.00	>1.00	>1.00	>1.00	>1.00	>1.00	2008, 2018, 2028	no
	SB-approach	>1.00	>1.00	>1.00	>1.00	>1.00	>1.00	2008, 2018, 2028	no
	WB-left	<0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	no	no
Tom McCall Rd and Hwy	NB-approach	n.a.	>1.00	>1.00	>1.00	>1.00	>1.00	2008, 2018, 2028	2018, 2028**
126	SB-approach	>1.00	>1.00	>1.00	>1.00	>1.00	>1.00	2008, 2018, 2028	no
	EB-left	>1.00	< 0.50	<0.50	<0.50	<0.50	<0.50	2008?	no
	WB-left	n.a.	< 0.50	<0.50	< 0.50	<0.50	< 0.50	no	no
Hwy 26 and Hwy 126 SB	SB-approach	>1.00	>1.00	>1.00	>1.00	>1.00	>1.00	2008, 2018, 2028	no
	NB-approach	>1.00	>1.00	>1.00	>1.00	>1.00	>1.00	2008, 2018, 2028	no
Wiley Rd and Hwy 126***			>0.70		>0.70		>0.70	no	2008

July 1, 2008

- \* The initial traffic impact analysis by Ferguson and Associates identified the v/c ratio at this intersection remaining less than 0.50 for the full planning period (2028). However, a subsequent analysis by Group MacKenzie concluded that the v/c ratio would exceed the 0.70 standard because of the project.
- \*\* Unknown if the intersection turning movement exceeds the v/c ratio standard in 2008 because of lack of data for 2008.
- \*\*\* The initial traffic impact analysis by Ferguson and Associates did not include this intersection. However, a subsequent analysis by Group MacKenzie concluded that the v/c ratio would exceed the 0.70 standard because of the project.

The Crossing Trails destination resort development will have a measurable traffic impact on the identified intersections, but to differing degrees. Of the six selected intersections (12 of a total of 22 turning movements) that exceed or will exceed the County (and State) v/c ratio standard by the year 2028, only the intersections of Reif Road and Highway 126, Parish Lane and Highway 126, and Wiley Road and Highway 126 are directly and fully attributable to the proposed destination resort.

Costs Assigned By ODOT Compared to Impacts Attributed to the Destination Resort

Following is a summary of the proposed mitigation measures and costs for the identified intersections:

Table 2 Identified intersections and Mitigation Measures

Intersection	v/c Ratio Exceeds Befor	The state of the state of	Vehicles Attributed to the Project and Contributing to the Impact*			Mitigation	
	without project	due to project	number	percent of total	measure**	cost***	
Powell Butte Hwy and Hwy 126	yes	no	164	4.7	interchange	\$6,000,000	
Veterans Wy and Hwy 126	yes	no	82	2.9	traffic signal	\$250,000	
Reif Road and Hwy 126	yes	yes	165	6.3	closure	\$50,000	
Parrish Ln and Hwy 126	no	yes	165	100.0	left turn lane	\$200,000	
Millican Rd. Tom McCall Rd, and Hwy 126	yes	no	70	2.4	interchange	\$5,400,000	
Hwy 26 and Hwy 126	yes	no	35	1.9	roundabout	\$1,900,000	
Wiley Rd and Hwy 126****	no	yes	70	100.0	closure	\$50,000	
Total			731	3.1		\$13,850,000	

- \* Estimated by Group MacKenzie.
- \*\* Identified by ODOT.
- \*\*\* Estimated by ODOT.

Total mitigation costs are estimated by ODOT at \$13,850,000, which represents 100 percent of the total mitigation costs for all identified intersections.

<sup>\*\*\*\*</sup> The initial traffic impact analysis by Ferguson and Associates did not include this intersection. However, a subsequent analysis by Group MacKenzie concluded that the v/c ratio would exceed the 0.70 standard because of the project.

Bill Zelenka, Planning Director

Heidi Bauer, Land Use Counsel and Planner

Analysis of Traffic Impacts to State Highways from the Proposed Crossing Trails Destination Resort

Page 6

July 1, 2008

#### Analysis of Mitigation Costs Assigned by ODOT

There appear to be two situations regarding traffic impacts to identified intersections and related mitigation costs. Following is a brief summary of them, followed by suggested approaches to determine a proportional mitigation share:

- 1. Intersections where vehicles from the project contribute to a portion of the impact that causes the v/c ratio standard to be exceeded prior to the time that it would be exceeded without the project. The intersection of Reif Road and Highway 126 is in this category, with the v/c ratio standard being exceeded in 2018 with the project instead of 2028 that is projected without the project. The intersections of Parish Way and Highway 126, and Wiley Road and Highway 126, will also experience a v/c ratio of greater than 0.70 that is directly attributable to the project, according to the most recent traffic impact analysis. Because exceeding the standard is directly attributable to traffic generated by the destination resort, full mitigation costs for mitigation at these intersections being born by the project appear to be appropriate.
- 2. Intersections that presently exceed the v/c ratio standard and will continue to exceed it with or without the project. The intersections of Powell Butte Highway and Highway 126, Veterans Way and Highway 126, Millican Road, Tom McCall Road, and Highway 126, Highway 26 and Highway 126 are included in this category. The destination resort does not cause the v/c ratio standard to be exceeded, but is a contributing factor to the overall traffic volume that will pass through it. A proportional share in mitigation costs based on traffic generation would appear to be appropriate.

#### Summary and Conclusion

Crook County is required to assess traffic impacts generated by destination resort development, and require mitigation for those impacts that cause the transportation system to exceed County standards. For State-owned or controlled highways the standard adopted by the County is the volume/capacity (v/c) ratio of 0.70. If this v/c ratio is not exceeded, the County standard is met. If it is exceeded, the County must require mitigation measures, but only to the amount that is roughly proportional to the degree of impact that the project generates.

Traffic impacts from Crossing Trails will have varying impacts to highway intersections. Some intersections will exceed the adopted standard because of the additional traffic generated by this project, and some already exceed the standard without the project. Mitigation costs should be based on the proportional impact of the development. Following is a summary of suggested proportional contribution for measures necessary to mitigate for traffic impacts attributable to Crossing Trails:

July 1, 2008

Table 3
Summary of Recommended Proportional Mitigation Costs By Intersection

Intersection	Ming	ration	V/C Stan Exceede Before	dard d On or	Traffic Attributed to the Project and Contributing to the Impact	Propo Sha Mitigat	ested rtional re of ion Cost reection
	measure*	cost**	without project		percent of total***	percent of cost	cost
Powell Butte Hwy and Hwy 126	interchange	\$6,000,000	yes	no	4.7	4.7	\$282,000
Veterans Wy and Hwy 126	traffic signal	\$250,000	yes	no	2.9	2.9	\$7,250
Reif Road and Hwy 126	closure	\$50,000	yes	yes	6.3	100.0	\$50,000
Parrish Ln and Hwy 126	left turn lane	\$200,000	no	yes	100.0	100.0	\$200,000
Millican Rd. Tom McCall Rd, and Hwy 126	interchange	\$5,400,000	yes	no	2.4	2.4	<b>\$</b> 129,600
Hwy 26 and Hwy 126	roundabout	\$1,900,000	yes	no	1.9	1.9	\$36,100
Wiley Rd and Hwy 126	closure	\$50,000		yes	100.0	100.0	\$50,000
Total		\$13,850,000			1 100 100		\$754,950

<sup>\*</sup> Identified by ODOT

<sup>\*\*</sup> Estimated by ODOT

<sup>\*\*\*</sup> Estimated by Group MacKenzie

## APPENDIX C – 2021 SCOPING MEMORANDUM

## Technical Memorandum

November 12, 2021

To: Oregon Department of Transportation – Region 4

Crook County Community Development
City of Prineville Community Development

From: Jacki Gulczynski, PE & Marc Butorac, PE

RE: Crossing Trails Destination Resort – Crook County, OR

## SCOPING MEMORANDUM

This memorandum documents the scope and summarizes the assumptions for the Transportation Impact Analysis (TIA) for the proposed Crossing Trails Destination Resort located in Crook County. Figure 1 shows the site vicinity and the project boundaries.

Project# 26648

A Preliminary Recommendations Report was provided to ODOT, Crook County, and the City of Prineville on August 18, 2021. This report highlighted the project history, existing relevant planning documents, and current approved developments and conditions.

The information presented in this memorandum was developed based on previous discussions with ODOT, Crook County, and the City of Prineville pertaining to the approved 580-acre destination resort. As the original approval was granted in 2009, the agencies have requested an updated transportation analysis to document offsite impacts to the transportation system.

The scoping memorandum addresses the following items:

- Project Description
- Estimated Trip Generation and Distribution
- Historic Crash Data Summary
- Analysis Scenarios and Study Assumptions
- Analysis Tools

## Project Description

Sun Communities, Inc. is proposing an updated site plan to an approved 580-acre destination resort located on the northeast corner of Parrish Lane and Wiley Road in Crook County. The original destination resort was to include 735 units (490 single family dwelling units and 245 rental units), a golf course, and other recreational amenities. The resort was expected to be completed in nine-phases. In 2009, the application was approved by the County and ODOT and the property was included in the County's Destination Resort Overlay Zone.

Since the original approval, the site plan has been modified and includes updates to the uses and general purpose of the resort. The new plan transitions from a traditional destination resort to an affordable, family friendly, outdoor living experience. The site plan includes recreational activities and open space for guests and full-time occupants, workforce housing for employees on the resort and within the surrounding

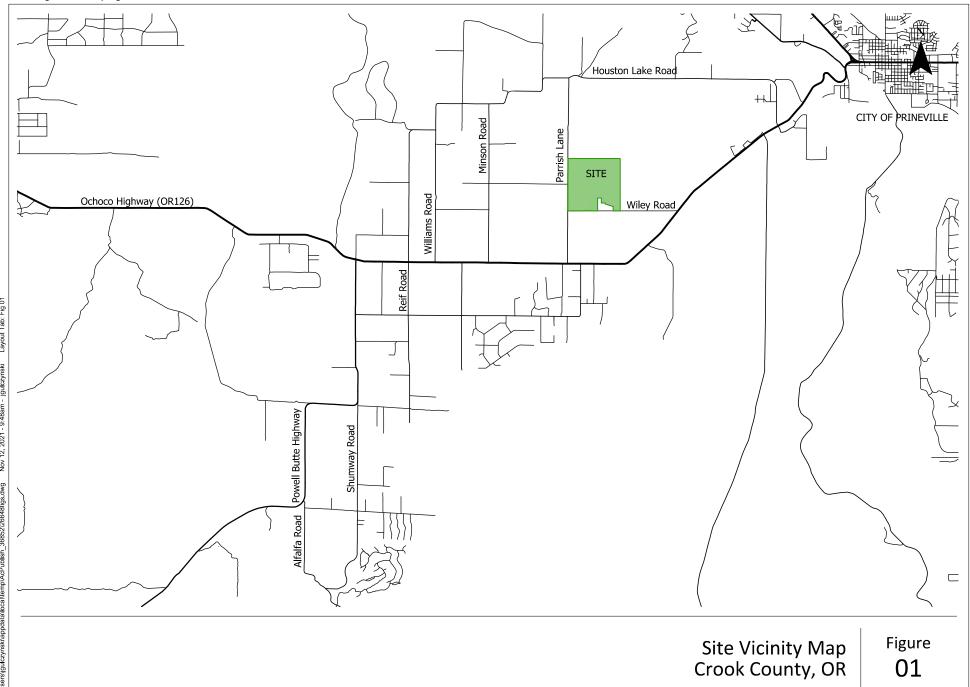
community, upscale manufactured homes/cabins, and overnight villas and resort rentals. Figure 2 illustrates the proposed site plan.

There are three proposed access points identified on the site plan including:

- Primary Access on Wiley Road (proposed as full-access stop controlled)
  - Approximately 0.5 mile east of Wiley Road/Parrish Lane intersection
- Secondary Access on Parrish Lane (proposed as full-access stop controlled)
  - Approximately 0.6 mile north of Wiley Road/Parrish Lane intersection
- Workforce Housing Access (proposed as full-access stop controlled)
  - Approximately 0.9 mile east of Wiley Road/Parrish Lane intersection

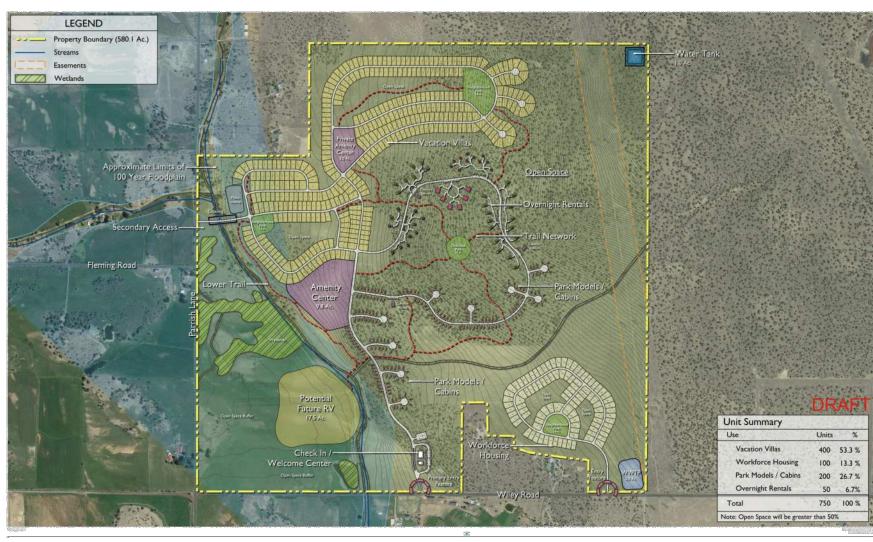


Crossing Trails Scoping Memo November 2021





Crossing Trails Scoping Memo November 2021





CROSSING TRAILS RESORT . CONCEPTUAL LAYOUT C

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Site Plan (As of November 2, 2021) Crook County, OR **Figure** 02



### Estimated Trip Generation

The proposed development includes 100 workforce housing units, 50 overnight resort units, 400 vacation villas, and 200 manufactured homes/cabins. Trip generation rates were generated from a 2006 ODOT approved trip generation study that looked at trip data associated with several Central Oregon destination resorts. The weekday p.m. peak hour trip rate was 0.32 trips/unit, the Saturday peak hour trip rate was 0.44 trips/unit and the daily trip rate was 3.2 daily trips/unit. The approved destination resort trip rates were applied to the overnight/vacation rentals, while the ITE 11th Edition Trip Generation rates for single family homes were applied to the workforce housing units.

The workforce housing area is separated from the overnight/vacation rentals and is intended to provide convenient housing for employees of the resort. While employment at the resort cannot be conditioned to occupants of the resort, it was assumed a conservative 25% internalization of peak hour trips between the workforce housing and the resort.

Trip generation rates from the land uses associated with the ITE 11<sup>th</sup> Edition Trip Generation Manual were compared to the ODOT approved destination resort rates. Both the weekday p.m. and Saturday conditions resulted in similar total trips where the Saturday destination totals were approximately 10% more conservative that the ITE totals. Comparison trip generation tables are provided in Appendix A. Given that the destination resort rates are local data, have been accepted by ODOT and local agencies, and are slightly more conservative, these rates were used to develop the trip generation shown in Table 1.

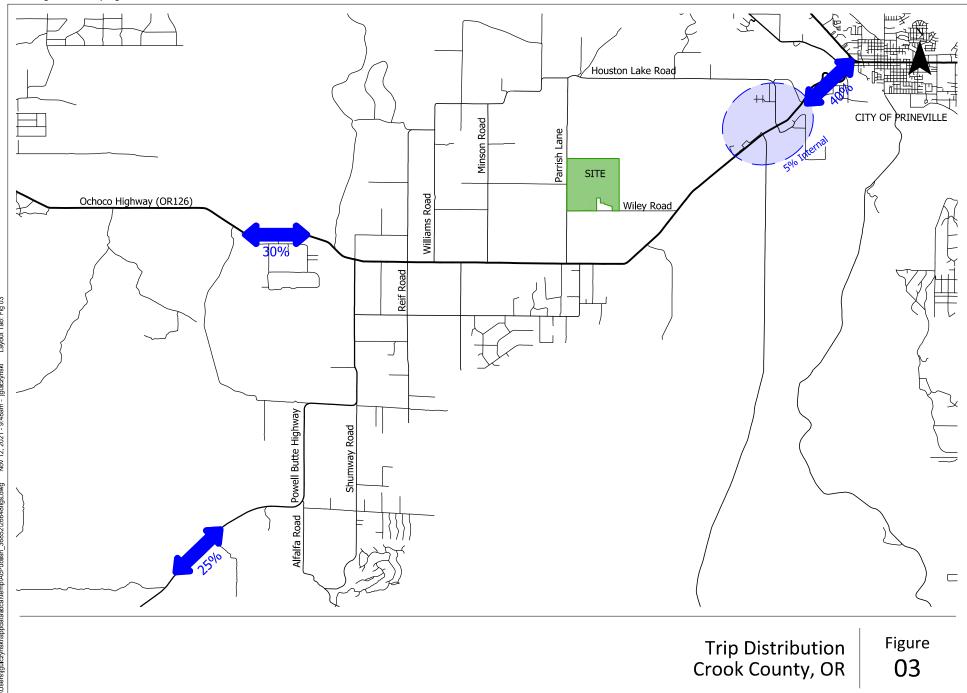
Table 1. Estimated Trip Generation

Land Use	ITE Code	Units	Daily	Week	day AN Hour	1 Peak	Week	day PM Hour	Peak	Saturc	lay Peal	k Hour
				Total	In	Out	Total	In	Out	Total	In	Out
Workforce Housing	210	100 Dwelling Unit	943	70	18	52	94	59	35	41	21	20
Destina- tion Resort	N/A	650 Dwelling Unit	2,860	156	78	78	208	104	104	286	143	143
Workforce H (25%)	ousing In	ternalization	236	18	5	13	24	15	9	10	5	5
Total New Tri	ps		3,567	208	91	117	278	175	103	317	159	158

## Trip Distribution and Assignment

The site generated trips are expected to distribute onto the local and regional network similar to existing travel patterns. The proposed distribution is shown in Figure 3. The distribution pattern from the approved traffic study was consulted, however, the distribution shown in Figure 3 accounts for employer generators near OR126/Tom McCall (i.e. Facebook, Apple, the Airport), and travel times/patterns from out of town guests coming to the development from west of the Cascade Mountains. The site trips were distributed onto the network and are provided in Appendix B.

Crossing Trails Scoping Memo November 2021





## Preliminary Crash History Assessment

The most recent five-year crash history was collected from the ODOT crash database. Table 2 summarizes the crash data. None of the proposed study intersections are within the top 5% or 10% of ODOT's Safety Priority Index System (SPIS). Additional safety evaluation will be completed as part of the TIA as traffic volume data is collected. This will include a comparison to 90<sup>th</sup> percentile crash rates and critical crash rates. Any locations where the rates are exceeded, we will identify potential countermeasures using the ODOT All Roads Transportation Safety (ARTS) crash reduction factors.

Table 2. Historic Crash Data

						Alb.				
Intersection			Crash	Туре			Cro	ash Seve	rity	Total
	Angle	Turning Movement	Fixed Object	Rear End	Pedestrian/ Bicycle	Other	PDO	Injury	Fatal	
Powell Butte Hwy/Alfalfa Rd	0	0	1	0	0	1	1	1	0	2
Powell Butte Hwy/Bussett Rd	0	0	2	1	0	2	3	2	0	5
Powell Butte Hwy/Riggs Rd	0	1	0	0	0	1	1	1	0	2
Powell Butte Hwy/OR126	0	9	0	6	0	0	4	11	0	15
Williams Rd/OR126	0	0	1	5	0	0	4	2	0	6
Copley Road/OR126	1	0	2	2	0	0	2	3	0	5
Minson Road/OR126	0	0	0	2	0	2	1	3	0	4
Parrish Ln/OR126	0	0	1	3	0	0	0	4	0	4
Parrish Ln/Wiley Rd	0	0	0	0	0	0	0	0	0	0
Parrish Ln/Houston Lake Rd	0	0	0	0	0	0	0	0	0	0
Tom McCall Rd/OR126	0	0	0	4	0	0	1	3	0	3

<sup>&</sup>lt;sup>1</sup>A roundabout was constructed in September 2018. The presented crashes occurred after construction

## Analysis Scenarios & Study Assumptions

The proposed assumptions are based on the TIA standards for Crook County as presented in Code Section 18.180. Per code requirements, the analysis will include:

#### STUDY YEARS

The study should evaluate the existing traffic conditions (2021), the build out year background traffic conditions (includes the regional growth but no site development traffic), and the buildout year total traffic conditions (includes background traffic plus site generated trips).

#### TIME PERIODS AND DATA COLLECTION

Per Crook County Code 18.180, the morning and evening weekday peak hours should be analyzed. Turning movement count data should be collected during a typical midweek peak period.

We propose analyzing the weekday p.m. peak hour (4:00-6:00pm) and the Saturday peak hour (12:00-4:00pm). An initial review of morning peak hour trips shows the weekday a.m. peak hour trip generation is approximately 75% of the weekday p.m. peak hour. The site primarily attracts recreational users who are likely to travel on the weekend. Given the high recreational use of OR126 (particularly on the weekends), a Saturday analysis period captures this demand.

#### STUDY INTERSECTIONS

County Code states that the TIA should evaluate intersections that receive site-generated trips that comprise at least 10 percent or more of the total intersection volume. The trip assignment volumes were compared to ODOT historic traffic volumes. The weekday p.m. peak hour trips were multiplied by 10 (A commonly used factor to estimate daily volumes from compare p.m. peak hour volumes) to compare the peak hour trips to the ODOT segment volumes. The volumes from both 2019 were reviewed and are shown in Appendix C.

The original conditions of approval included closures at OR126/Wiley Road and OR126/Reif Road for safety purposes. Assuming the condition remains applicable, we propose not including those intersections in the study. Additionally, Millican Road was recently upgrades as part of the Tom McCall roundabout and no longer allows for full turning movements. Therefore, it was also not included as a study intersection.

The proposed intersections shown below are locations experiencing a 10-percent increase in volumes as is required in the Code:

- 1. Powell Butte Highway/Alfalfa Road
- 2. Powell Butte Highway/Bussett Road
- 3. Powell Butte Highway/Riggs Road
- 4. Powell Butte Highway/OR126
- 5. Williams Road/OR126
- 6. Copley Road/OR126
- 7. Minson Road/OR126
- 8. Parrish Lane/OR126
- 9. Parrish Lane/Wiley Road
- 10. Parrish Lane/Houston Lake Road
- 11. Tom McCall Road/OR126

#### **BACKGROUND GROWTH RATE**

Growth factors were developed using ODOT's historical trends method, which relies on traffic volumes from previous years to develop a growth pattern for use in projected future volumes. ODOT maintains Future Volumes Tables that summarize current and future year traffic volumes for state roadways throughout the

State. Locations near the proposed study locations were used to develop a growth rate. Table 3 shows the ODOT Future Volumes Table and the respective values.

Table 3. ODOT Future Growth Table

HWY	MP	DIR	Location	2014	2036	RSQ1	Growth Rate
041	2.32	1	At east city limits of Redmond	10000	13700	MODEL <sup>3</sup>	1.5%
041	6.82	1	0.02 mile west of Powell Butte Highway	9800	12100	0.8181	1.0%
041	6.86	1	0.02 mile east of Powell Butte Highway	11800	15000	0.8495	1.1%
041	15.75	1	0.01 mile west of Tom McCall Road	12900	18900	MODEL <sup>3</sup>	1.8%
041	17.90	1	0.02 mile west of O'Neil Highway	13600	20400	MODEL <sup>3</sup>	1.9%
041	17.94	1	0.02 mile east of O'Neil Highway, 0.23 mile west of Madras-Prineville Highway (US26)	15400	21800	MODEL <sup>3</sup>	1.7%
					Averd	ige Growth	1.5%

<sup>&</sup>lt;sup>1</sup> RSQ=R-squared value, describing the fit of the data to the line

A review of the Crook County TSP reveals a 1.6% growth rate was applied to all county roads. Given the nearly identical growth rates, we propose a growth rate of 1.6% to evaluate the future traffic volumes for all intersection turning movements on ODOT and County facilities.

#### IN-PROCESS AND APPROVED NEIGHBORING DEVELOPMENTS

As presented in the Preliminary Recommendations report, there are several destination resorts within the area that are under development or approved for development. These include:

- Pronghorn (Under Development)
- Brasada Ranch (Under Development)
- Hidden Canyon (Approved)
- Remington Ranch (Approved)

All of the forecasted vested trips are unlikely to be developed by the time the Crossing Trails property is built out. The TIA will review the traffic studies and trip assumptions for the neighboring destination resorts and apply an annualized trip rate for each resort onto the system to capture estimated trips on the system at the build-out year and the forecast year. Kittelson will contact Crook County, Deschutes County, the City of Prineville and the City of Redmond to identify any other in-process developments to include in background growth.

#### Conditions of Approval

Several of the neighboring destination resorts are conditioned for transportation improvements on the regional network within the study area. These conditions are as follows:

#### Hidden Canyon

- Design and construct the OR126/Powell Butte Highway Roundabout upon occupancy of the 251st dwelling unit. If the roundabout is constructed by others, proportionate share costs should be distributed to other impacted intersections as documented in the Memorandum of Understanding (MOU).
- The MOU requires an intersection improvement at Powell Butte Highway/Shumway Road/Bussett Road to create a single intersection at the apex of the curve on Powell Butte Highway. This improvement is required upon build out of the 600<sup>th</sup> resort unit.

<sup>3</sup>MODEL = data was obtained from the Transportation Planning Analysis Unit (TPAU) Travel Demand Model

#### Remington Ranch

 Proportionate share contributions should be allocated to the OR126/Powell Butte Highway based upon the percentage of projected resort trips traveling through the intersection.

#### **ACCESS SPACING AND NEEDS**

Access spacing will be evaluated with respect to the Crook Count access spacing requirements and verified during a field visit. Additionally, intersection control devices and turn lane evaluations will be conducted at the site accesses and off-site facilities. Turn lane warrants and evaluations will be conducted using the ODOT Analysis Procedure Manual (APM) methodologies.

### Analysis Tools and Mobility Targets

The intersection operational analysis will be performed using the Highway Capacity Manual (HCM), 6<sup>th</sup> Edition analysis procedures. To ensure that this analysis is based on a reasonable worst-case scenario, the peak 15-minute flow rate during the weekday p.m. peak hour and Saturday peak hour will be used in the evaluation of all intersection level-of-service (LOS) and volume-to-capacity (V/C) ratios. The stop-controlled intersection operations analyses will be completed using Synchro 11 software, HCS 7 software will be used for the roundabout analysis.

#### **ODOT MOBILITY TARGETS**

ODOT assesses intersection operations based on established mobility targets (as defined by the volume-to-capacity (v/c) ratio). Table 6 of the Oregon Highway Plan (OHP) provides the mobility targets for facilities outside the Portland Metro area. There is one state facility within the study area: OR126 – Ochoco Highway. OR126 is designed by the OHP as a Statewide Freight Route and an Expressway.

Table 6 of the OHP states that a freight route on a statewide highway and an expressway outside of an urban growth boundary in an unincorporated community should maintain a mobility target v/c ratio less than 0.70. However, the OHP states that non-state highway unsignalized intersection approaches should adhere to the volume to capacity ratio for District/Local Interest Roads. Therefore, the mobility standard for the side street approaches to OR126 intersections within the study area is a v/c ratio less than 0.80.

#### **COUNTY MOBILITY TARGETS**

Crook County intersection mobility targets adhere to a v/c ratio and Level of Service (LOS) threshold. For unsignalized intersections, the mobility target is a v/c ratio less than 0.95 and a LOS E or F.

#### MOBILITY TARGET SUMMARY

Table 4 summarizes the mobility targets for the proposed study intersections.

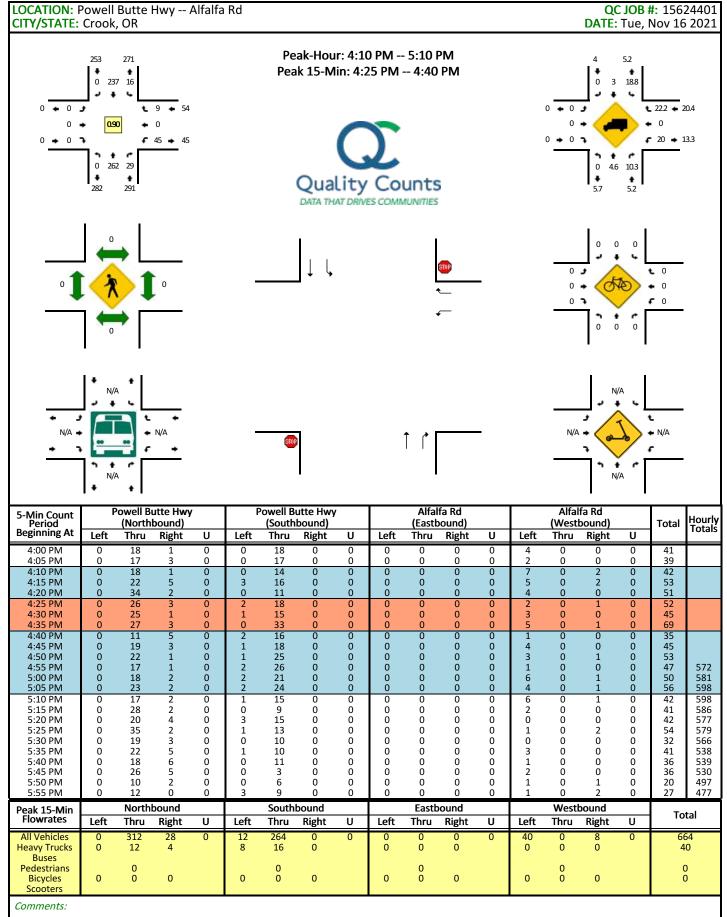
Table 4. Study Intersection Control and Mobility Target

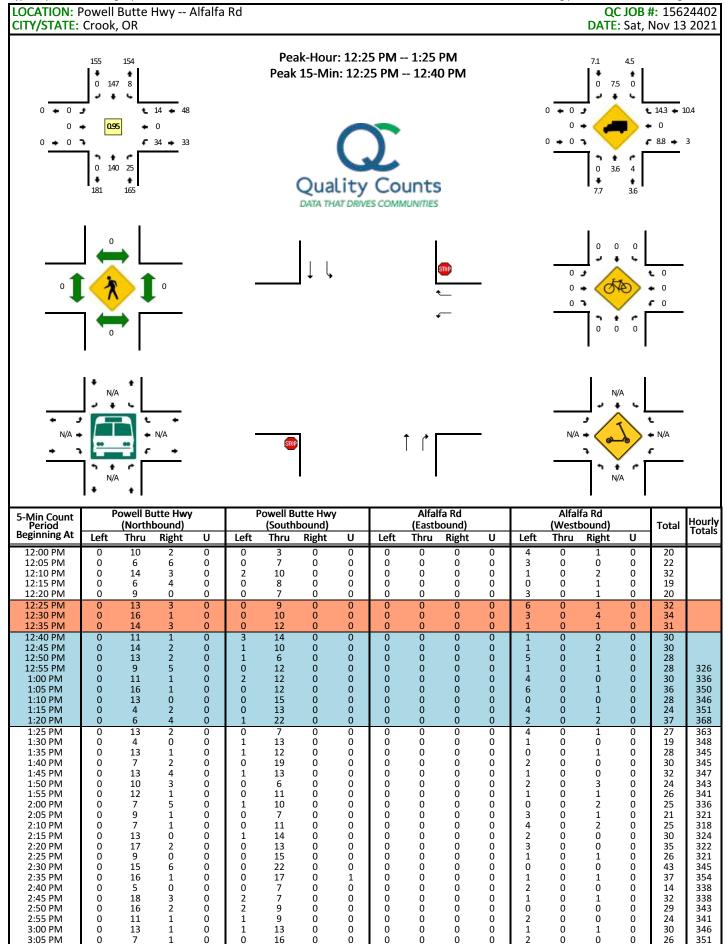
Study Int. #	Intersection	Classification / Jurisdiction	Intersection Control	Mobility Target
1	Powell Butte Highway/Alfalfa Road	County	Stop Controlled	LOS E/F and v/c<0.95
2	Powell Butte Highway/Bussett Road	County	Stop Controlled	LOS E/F and v/c<0.95
3	Powell Butte Hwy/ Riggs Road	County	Stop Controlled	LOS E/F and v/c<0.95
4	Powell Butte Highway/OR126	ODOT	Stop Controlled	Side-Street: OHP: v/c<0.80 Mainline: OHP: v/c<0.70:
5	Williams Road/OR126	ODOT	Stop Controlled	Side-Street: OHP: v/c<0.80 Mainline: OHP: v/c<0.70:
6	Copley Road/OR126	ODOT	Stop Controlled	Side-Street: OHP: v/c<0.80 Mainline: OHP: v/c<0.70:
7	Minson Road/OR126	ODOT	Stop Controlled	Side-Street: OHP: v/c<0.80 Mainline: OHP: v/c<0.70:
8	Parrish Lane/OR126	ODOT	Stop Controlled	Side-Street: OHP: v/c<0.80 Mainline: OHP: v/c<0.70:
9	Parrish Lane/Wiley Road	County	Stop Controlled	LOS E/F and v/c<0.95
10	Parrish Lane/Houston Lake Road	County	Stop Controlled	LOS E/F and v/c<0.95
11	Tom McCall Road/OR126	ODOT	Roundabout	Side-Street: OHP: v/c<0.80 Mainline: OHP: v/c<0.70:

## Next Steps

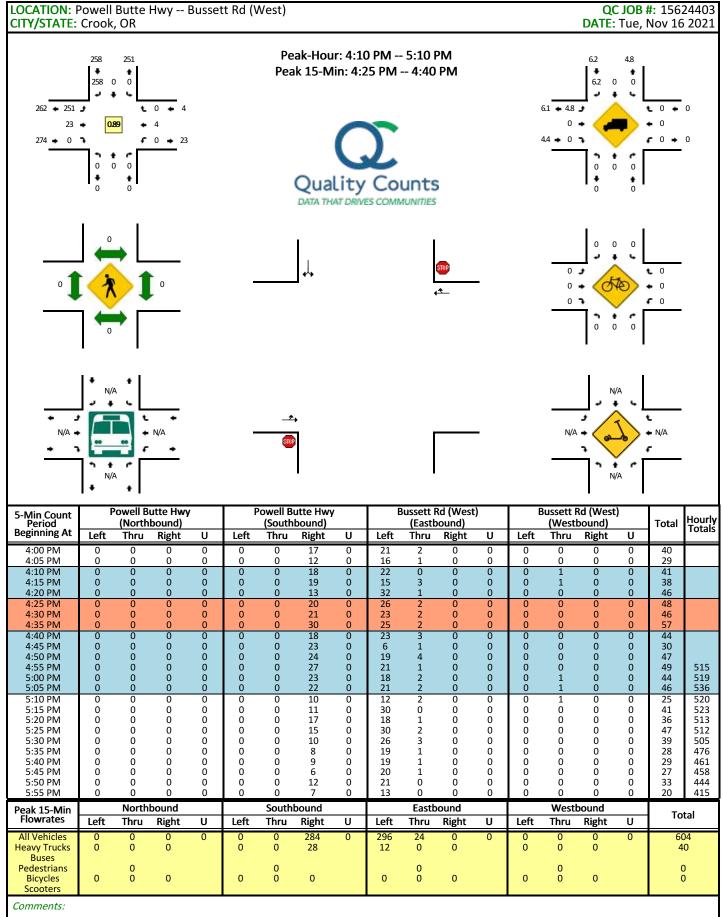
We request ODOT, Crook County, and the City of Prineville review this scoping memo and provide a response on the assumptions to proceed with the TIA. Please contact Jacki Gulczynski (541-639-8617 or <a href="mailto:jqulczynski@kittelson.com">jqulczynski@kittelson.com</a>) if you have any questions or comments on the information presented in this memorandum.

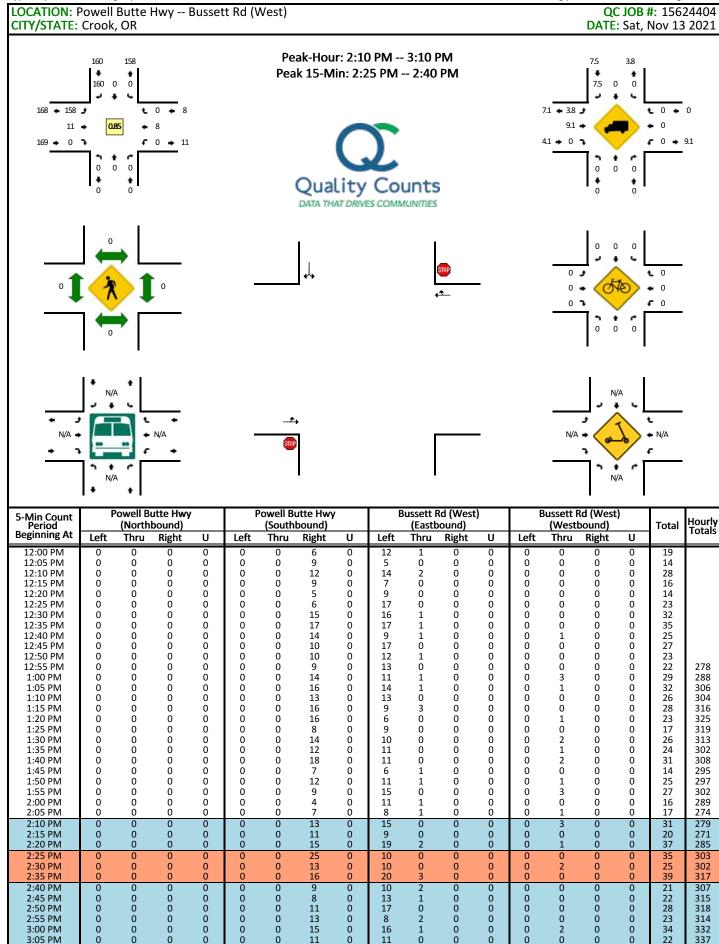
# APPENDIX D – TRAFFIC COUNT DATA



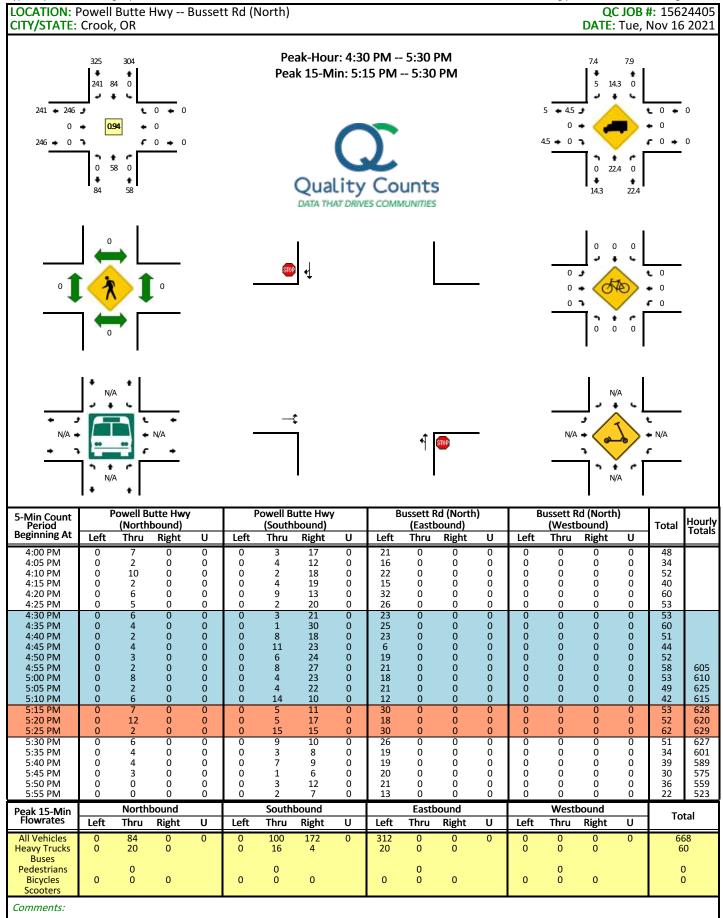


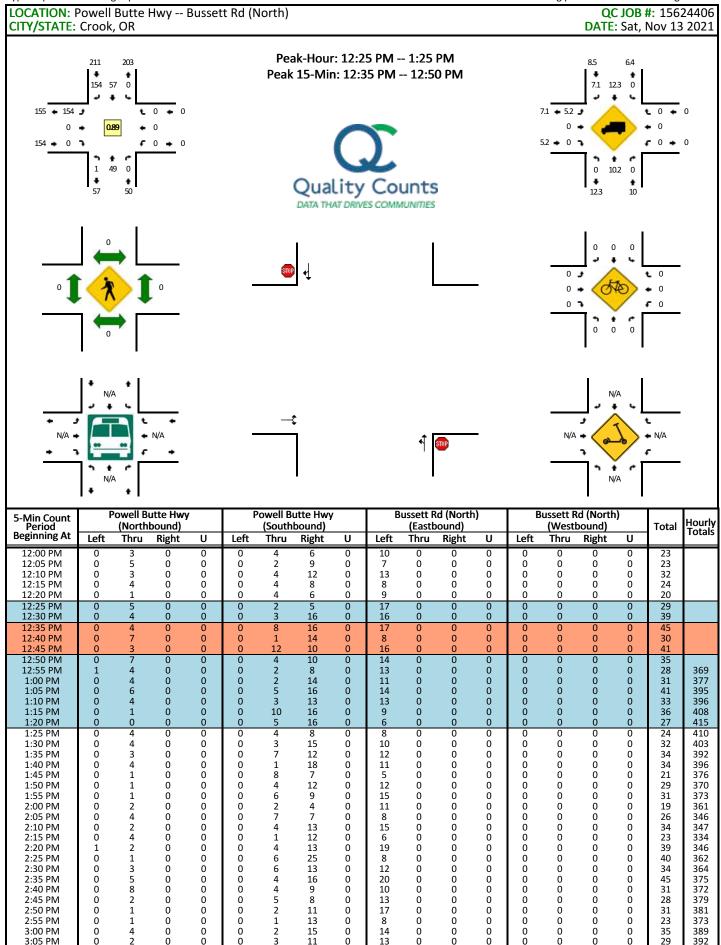
5-Min Count Period	F		utte Hwy bound)		F		utte Hwy bound)				fa Rd oound)				fa Rd bound)		Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		TOtals
3:10 PM	0	12	3	0	0	7	0	0	0	0	0	0	0	0	0	0	22	348
3:15 PM	0	7	2	0	2	13	0	0	0	0	0	0	3	0	2	0	29	347
3:20 PM	0	10	0	0	0	11	0	0	0	0	0	0	3	0	2	0	26	338
3:25 PM	0	7	6	0	0	10	0	0	0	0	0	0	3	0	1	0	27	339
3:30 PM	0	4	1	0	1	18	0	0	0	0	0	0	5	0	0	0	29	325
3:35 PM	0	10	4	0	0	10	0	0	0	0	0	0	1	0	0	0	25	313
3:40 PM	0	9	5	0	2	11	0	0	0	0	0	0	1	0	0	0	28	327
3:45 PM	0	3	1	0	0	15	0	0	0	0	0	0	1	0	0	0	20	315
3:50 PM	0	15	2	0	1	10	0	0	0	0	0	0	1	0	0	0	29	315
3:55 PM	0	10	2	0	1	10	0	0	0	0	0	0	2	0	1	0	26	317
Peak 15-Min		North	bound			South	bound			Eastb	ound			Westl	oound		т.	tal
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	10	ldi
All Vehicles	0	172	28	0	0	124	0	0	0	0	0	0	40	0	24	0	38	38
Heavy Trucks Buses	0	12	0		0	0	0		0	0	0		0	0	0		1	.2
Pedestrians		0				0				0				0			(	)
Bicycles Scooters	0	0	0		0	0	0		0	0	0		0	0	0		(	)
Comments:																		



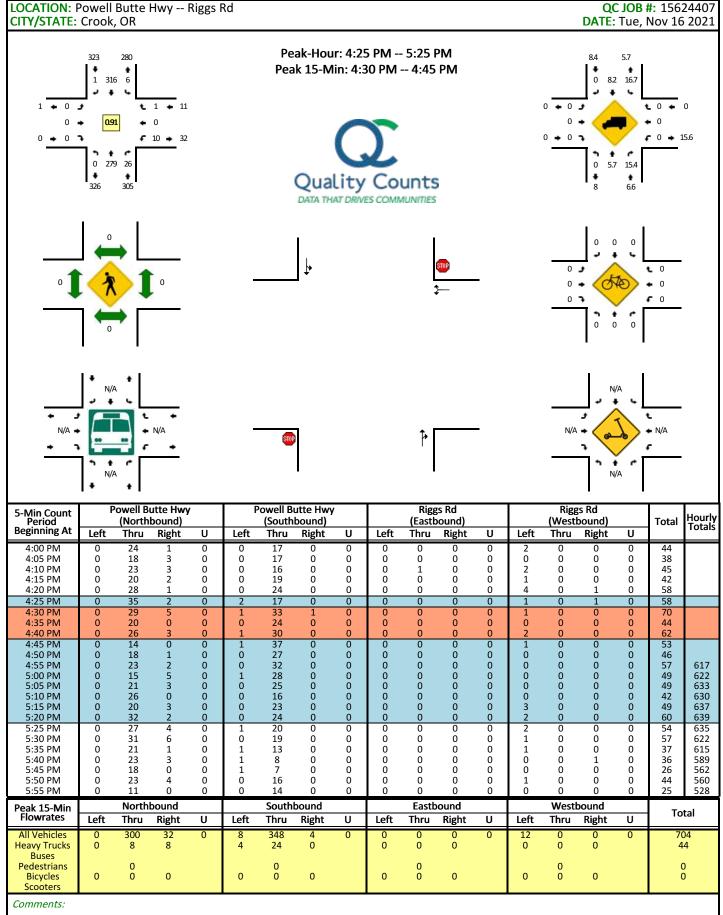


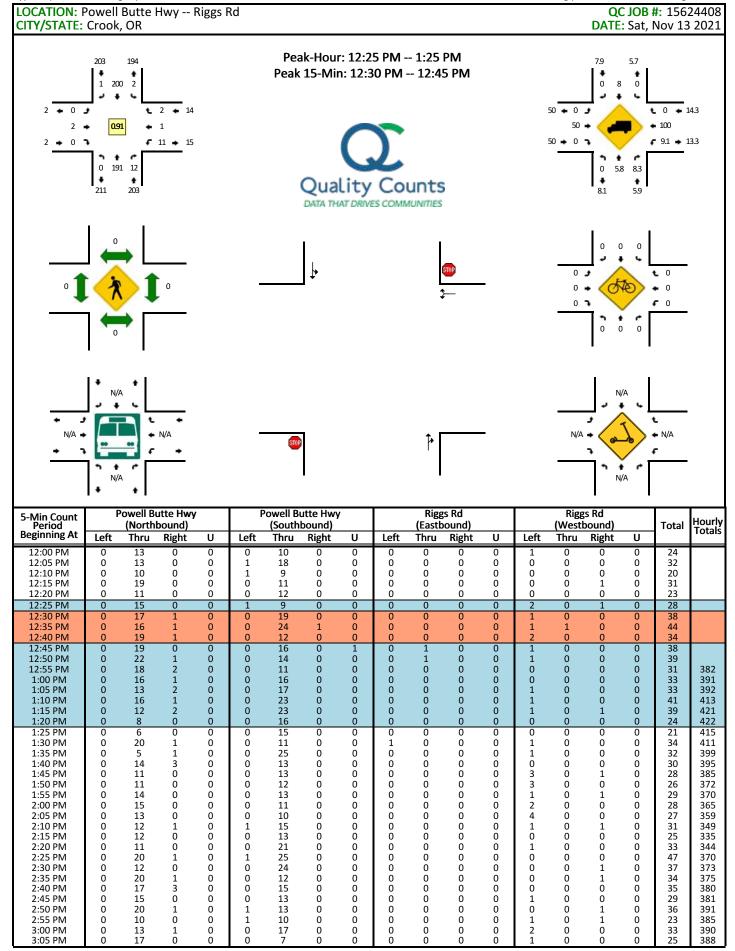
5-Min Count Period	F		utte Hwy bound)		F		utte Hwy bound)	,	E		Rd (West) bound)	)	В		Rd (West bound)	)	Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		TOtals
3:10 PM	0	0	0	0	0	0	13	0	8	1	0	0	0	0	0	0	22	328
3:15 PM	0	0	0	0	0	0	9	0	13	0	0	0	0	1	0	0	23	331
3:20 PM	0	0	0	0	0	0	9	0	4	3	0	0	0	2	0	0	18	312
3:25 PM	0	0	0	0	0	0	17	0	9	0	0	0	0	1	0	0	27	304
3:30 PM	0	0	0	0	0	0	10	0	9	1	0	0	0	1	0	0	21	300
3:35 PM	0	0	0	0	0	0	10	0	6	1	0	0	0	2	0	0	19	280
3:40 PM	0	0	0	0	0	0	12	0	9	1	0	0	0	0	0	0	22	281
3:45 PM	0	0	0	0	0	0	15	0	8	0	0	0	0	0	0	0	23	282
3:50 PM	0	0	0	0	0	0	13	0	13	2	0	0	0	1	0	0	29	283
3:55 PM	0	0	0	0	0	0	6	0	8	3	0	0	0	0	0	0	17	277
Peak 15-Min		North	bound			South	bound			Eastb	ound			Westl	oound		т.	tal
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	10	ldi
All Vehicles	0	0	0	0	0	0	216	0	160	12	0	0	0	8	0	0	39	96
Heavy Trucks	0	0	0		0	0	8		12	0	0		0	0	0		2	.0
Buses																		
Pedestrians		0				0				0				0				)
Bicycles Scooters	0	0	0		0	0	0		0	0	0		0	0	0		(	)
Comments:									-								-	



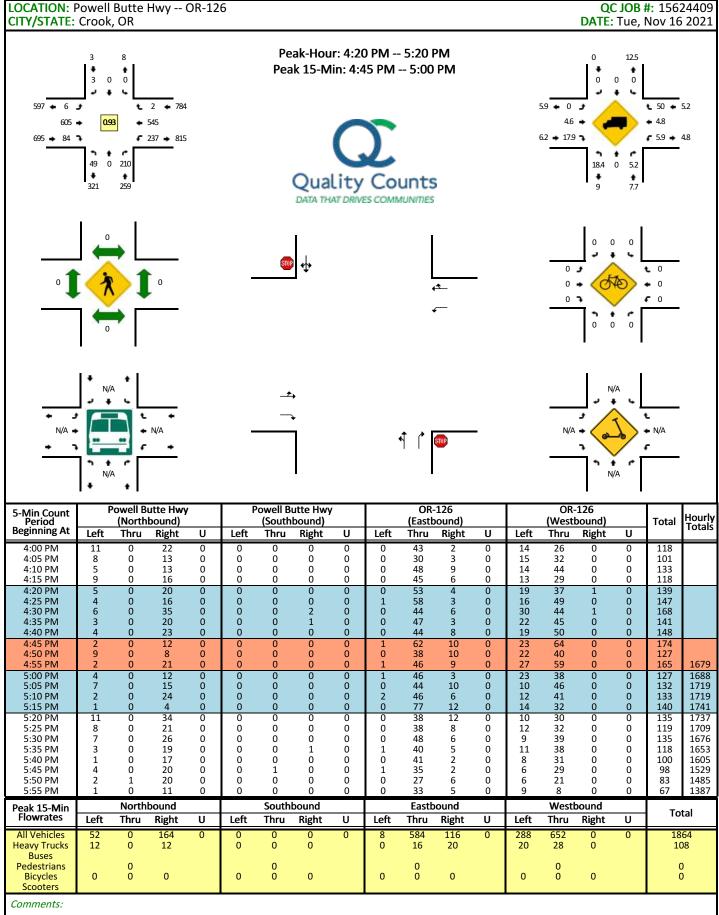


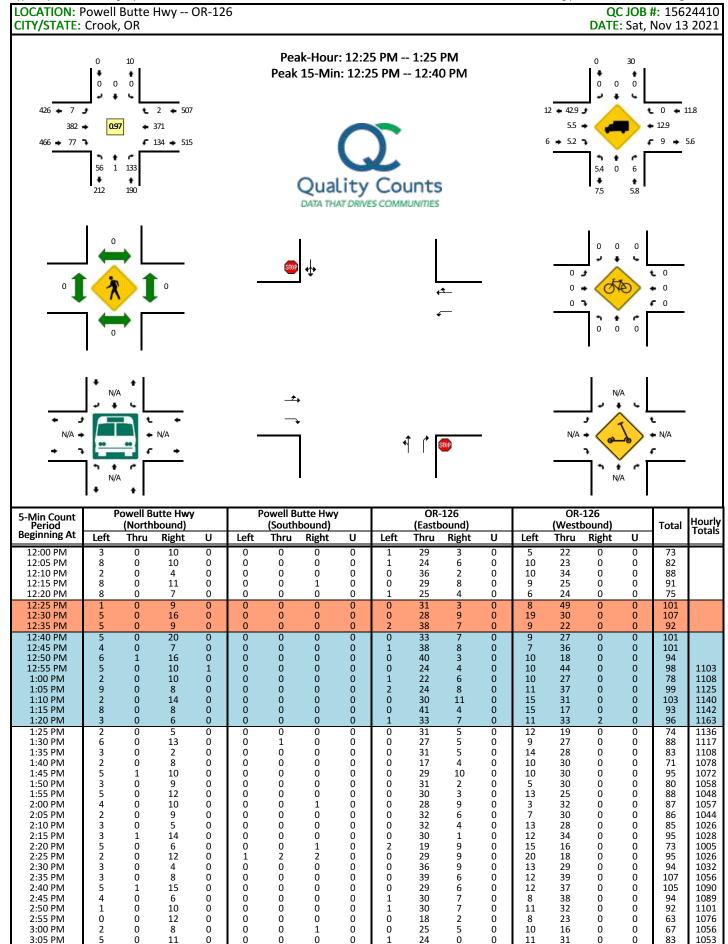
5-Min Count Period	F		utte Hwy bound)		F		utte Hwy bound)	,	В		d (North ound)	)	В		ld (North bound)	)	Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		TOtals
3:10 PM	0	7	0	0	0	1	13	0	8	0	0	0	0	0	0	0	29	387
3:15 PM	0	7	0	0	0	2	9	0	13	0	0	0	0	0	0	0	31	395
3:20 PM	0	1	0	0	0	2	10	0	4	0	0	0	0	0	0	0	17	373
3:25 PM	0	6	0	0	0	6	16	0	9	0	0	0	0	0	0	0	37	370
3:30 PM	0	2	0	0	0	3	10	0	9	0	0	0	0	0	0	0	24	360
3:35 PM	0	4	0	0	0	8	10	0	6	0	0	0	0	0	0	0	28	343
3:40 PM	0	1	0	0	0	5	12	0	8	0	0	0	0	0	0	0	26	338
3:45 PM	0	6	0	0	0	4	15	0	8	0	0	0	0	0	0	0	33	343
3:50 PM	0	4	0	0	0	3	13	0	13	0	0	0	0	0	0	0	33	345
3:55 PM	0	4	0	0	0	4	6	0	8	0	0	0	0	0	0	0	22	344
Peak 15-Min		North	bound			South	bound			Eastb	ound			Westl	oound		т.	
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	10	tal
All Vehicles	0	56	0	0	0	84	160	0	164	0	0	0	0	0	0	0	40	64
Heavy Trucks Buses	0	4	0		0	8	16		12	0	0		0	0	0		4	.0
Pedestrians		0				0				0				0			(	)
Bicycles Scooters	0	0	0		0	0	0		0	0	0		0	0	0		(	)
Comments:																		



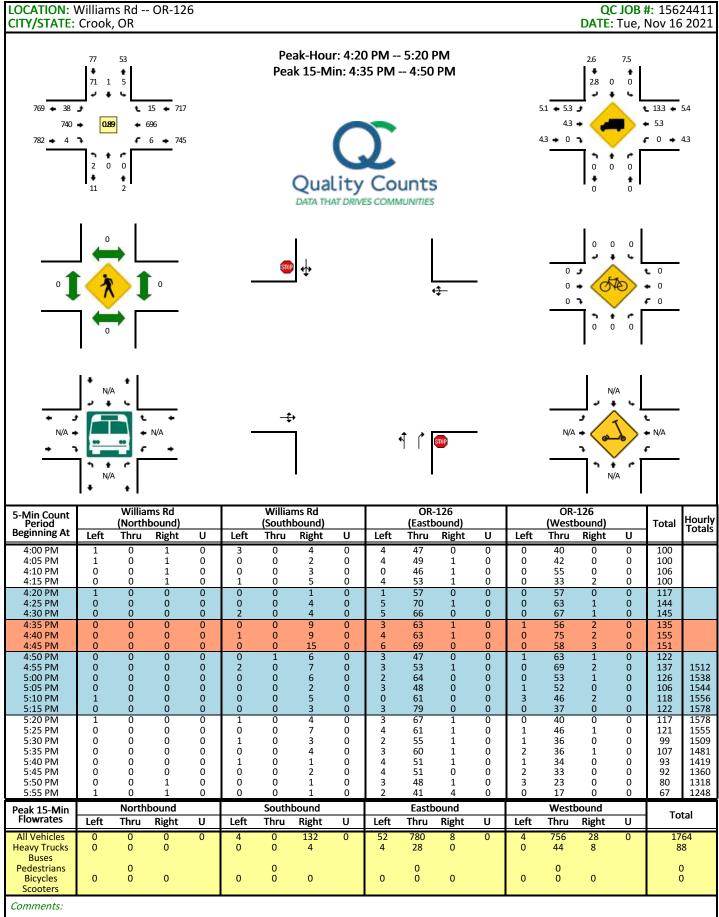


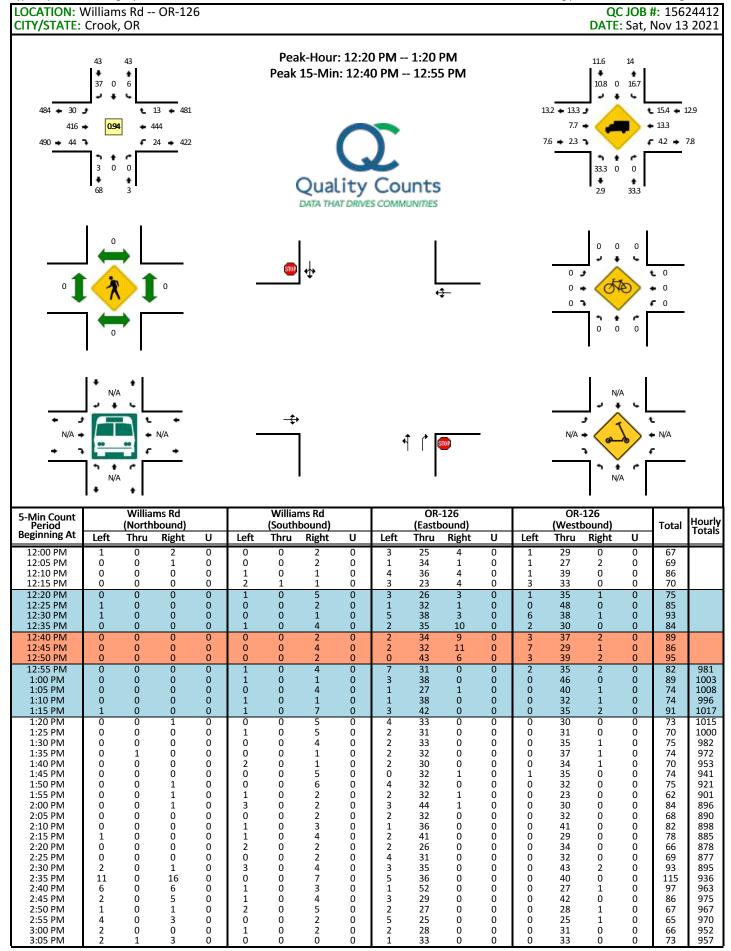
5-Min Count Period	F		utte Hwy bound)		F		utte Hwy bound)	1			gs Rd bound)				s Rd bound)		Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		TOtals
3:10 PM	0	9	0	0	0	15	0	0	0	0	0	0	1	0	0	0	25	382
3:15 PM	0	23	0	0	0	16	0	0	0	0	0	0	0	0	0	0	39	396
3:20 PM	0	9	0	0	1	15	0	0	0	0	0	0	0	0	0	0	25	388
3:25 PM	0	10	0	0	1	15	0	0	0	0	0	0	2	0	0	0	28	369
3:30 PM	0	15	2	0	0	15	0	0	0	0	0	0	0	0	0	0	32	364
3:35 PM	0	6	0	0	0	21	1	0	0	0	0	0	0	0	0	0	28	358
3:40 PM	0	11	2	0	0	17	0	0	0	0	0	0	1	0	0	0	31	354
3:45 PM	0	12	0	0	0	13	0	0	0	0	0	0	1	0	0	0	26	351
3:50 PM	0	7	1	0	0	17	0	0	0	0	0	0	1	0	0	0	26	341
3:55 PM	0	17	0	0	1	10	0	0	0	0	0	0	1	0	0	0	29	347
Peak 15-Min		North	bound			South	bound			Eastb	ound			Westl	oound		т.	4-1
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	10	tal
All Vehicles	0	208	12	0	0	220	4	0	0	0	0	0	16	4	0	0	40	64
Heavy Trucks	0	16	0		0	20	0		0	0	0		4	4	0		4	4
Buses Pedestrians		0				0				0				0			(	)
Bicycles Scooters	0	Ö	0		0	ő	0		0	Ö	0		0	Ö	0			ő
Comments:																		



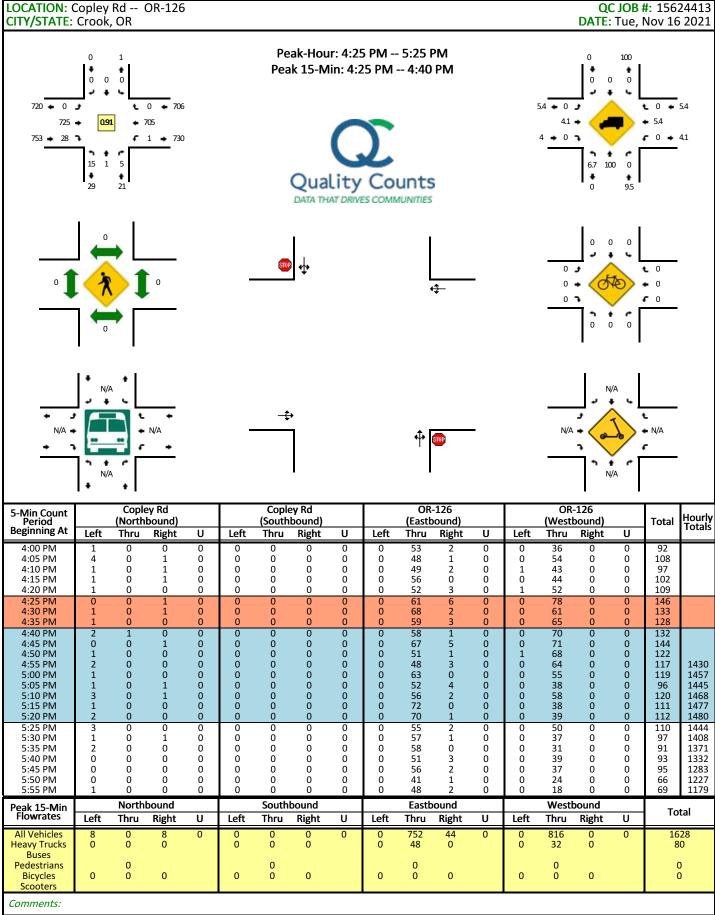


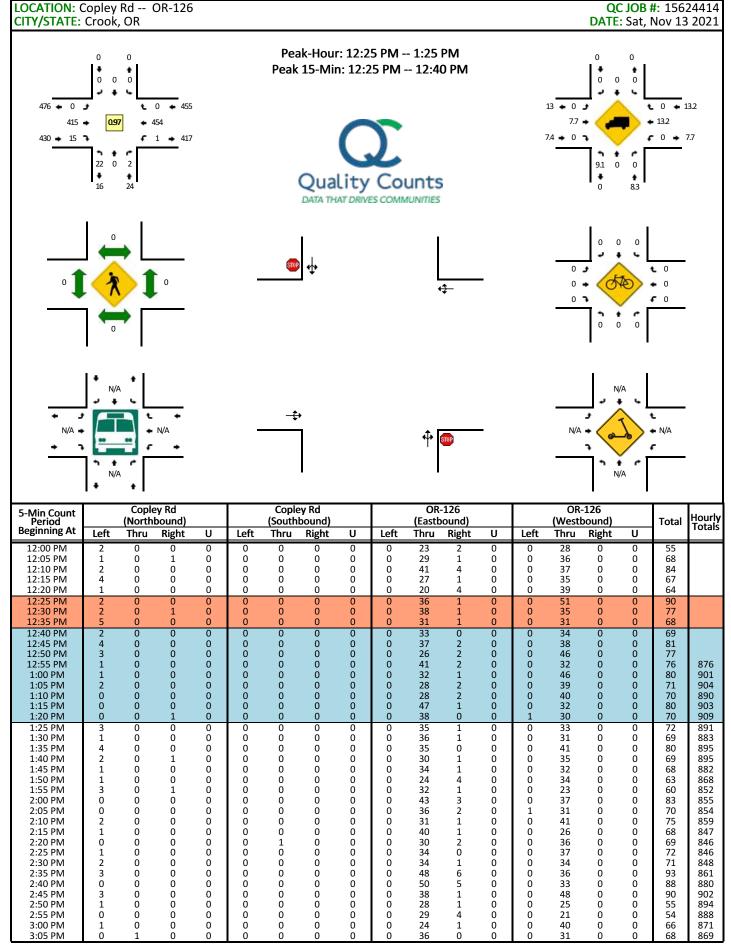
5-Min Count Period	F		utte Hwy bound)		F		utte Hwy bound)	'			-126 oound)				-126 bound)		Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		Totals
3:10 PM	1	0	10	0	0	0	0	0	1	26	5	0	10	19	0	0	72	1040
3:15 PM	5	0	11	0	0	0	0	0	0	35	0	0	13	16	0	0	80	1025
3:20 PM	5	0	11	0	0	0	1	0	0	29	4	0	14	37	0	0	101	1053
3:25 PM	2	0	6	0	0	0	0	0	0	24	2	0	12	31	0	0	77	1035
3:30 PM	6	0	9	0	0	0	0	0	1	30	8	0	10	40	0	0	104	1045
3:35 PM	3	0	6	0	0	0	0	0	0	30	9	0	11	27	0	0	86	1024
3:40 PM	4	0	3	0	0	0	0	0	1	44	4	0	14	25	0	0	95	1014
3:45 PM	2	0	11	0	0	0	1	0	1	29	1	0	8	21	0	0	74	994
3:50 PM	4	0	5	0	0	0	0	0	0	25	5	0	12	25	0	0	76	978
3:55 PM	1	0	14	0	0	0	0	0	0	19	3	0	7	36	0	0	80	995
Peak 15-Min		North	bound			South	bound			Eastb	ound			West	oound		_	
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	10	tal
All Vehicles	44	0	136	0	0	0	0	0	8	388	76	0	144	404	0	0	12	.00
Heavy Trucks	4	0	8		0	0	0		0	20	4		12	52	0			00
Buses																		
Pedestrians		0				0				0				0			(	)
Bicycles Scooters	0	0	0		0	0	0		0	0	0		0	0	0			Ö
Comments:																		



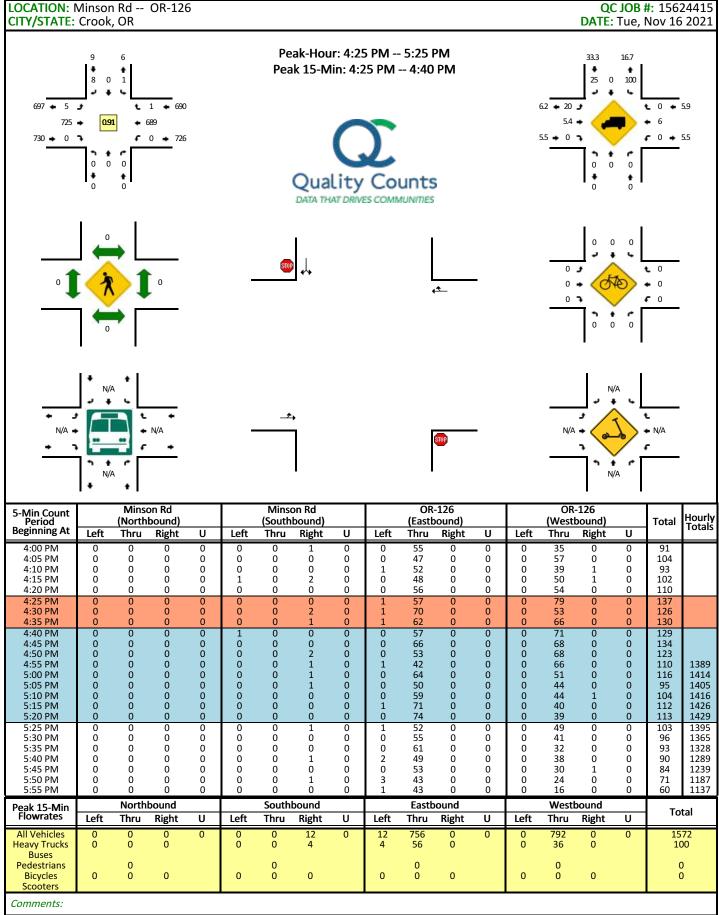


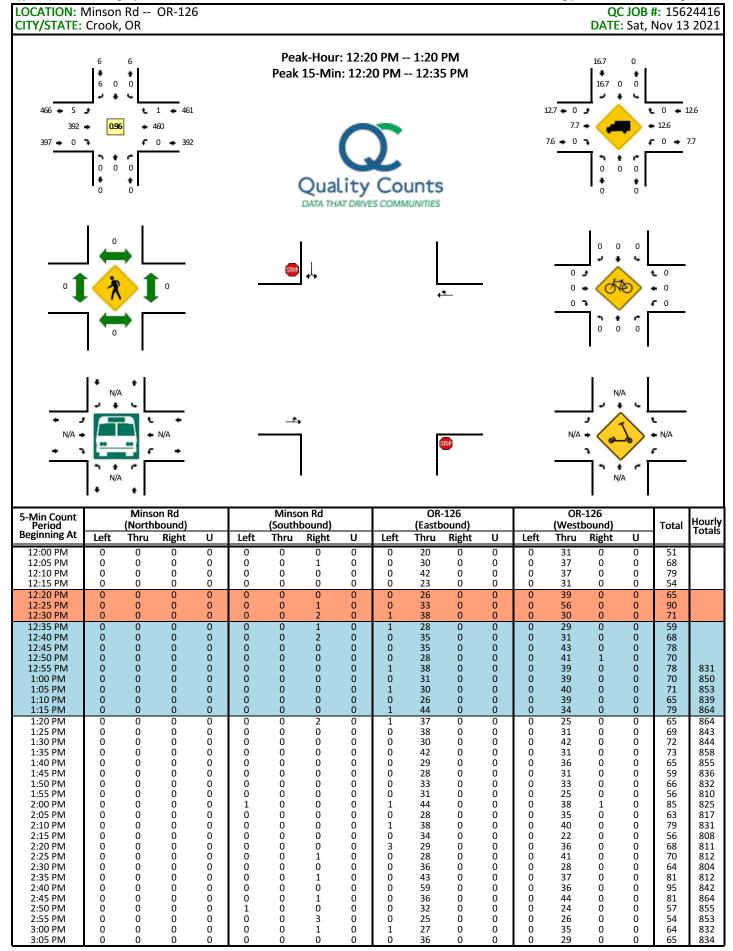
5-Min Count Period			ms Rd bound)				ms Rd bound)				-126 oound)				-126 bound)		Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		Totals
3:10 PM	1	0	0	0	1	0	5	0	1	32	0	0	0	21	0	0	61	936
3:15 PM	2	0	0	0	1	0	2	0	2	38	0	0	0	29	1	0	75	933
3:20 PM	3	0	0	0	3	0	6	0	2	42	0	0	0	49	0	0	105	972
3:25 PM	1	0	0	0	1	0	3	0	4	25	0	0	0	35	1	0	70	973
3:30 PM	1	0	1	0	0	0	6	0	3	30	0	0	0	42	1	0	84	964
3:35 PM	2	0	0	0	0	0	3	0	4	38	0	0	0	30	0	0	77	926
3:40 PM	1	0	0	0	1	0	4	0	0	42	0	0	0	36	0	0	84	913
3:45 PM	1	0	0	0	0	0	3	0	2	30	0	0	0	28	0	0	64	891
3:50 PM	1	0	0	0	0	0	2	0	1	31	0	0	0	38	1	0	74	898
3:55 PM	0	0	2	0	0	0	3	0	3	34	0	0	0	26	1	0	69	902
Peak 15-Min		North	bound			South	bound			Eastb	ound			Westl	bound		т.	a - 1
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	1 10	tal
All Vehicles	0	0	0	0	0	0	32	0	16	436	104	0	52	420	20	0	10	80
Heavy Trucks	0	0	0		0	0	4		0	36	0		0	64	4		10	08
Buses																		
Pedestrians		0				0				0				0			(	)
Bicycles Scooters	0	0	0		0	0	0		0	0	0		0	0	0		(	)
Comments:																		



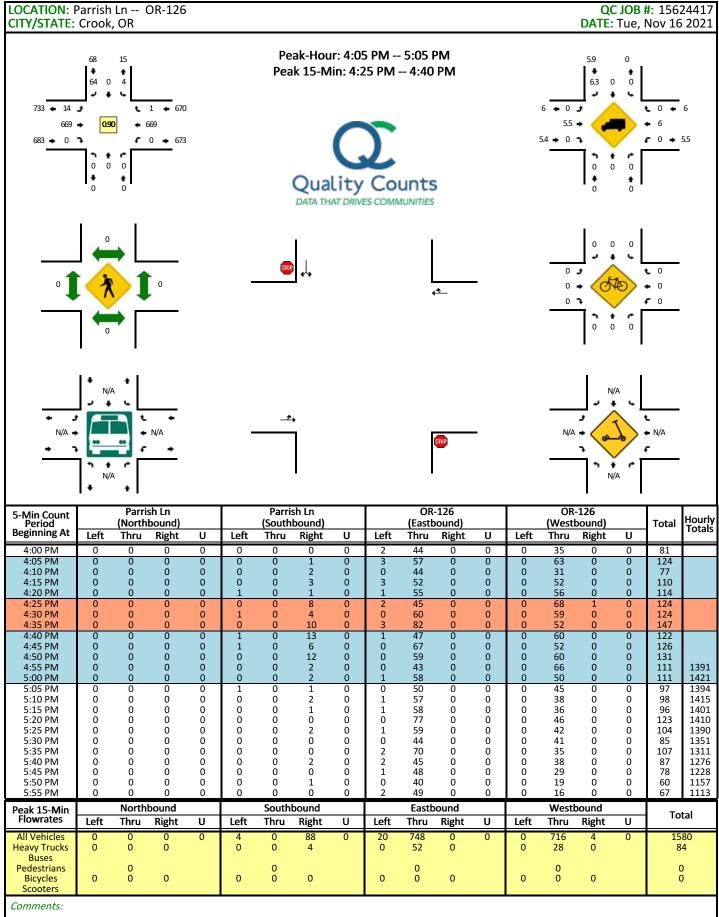


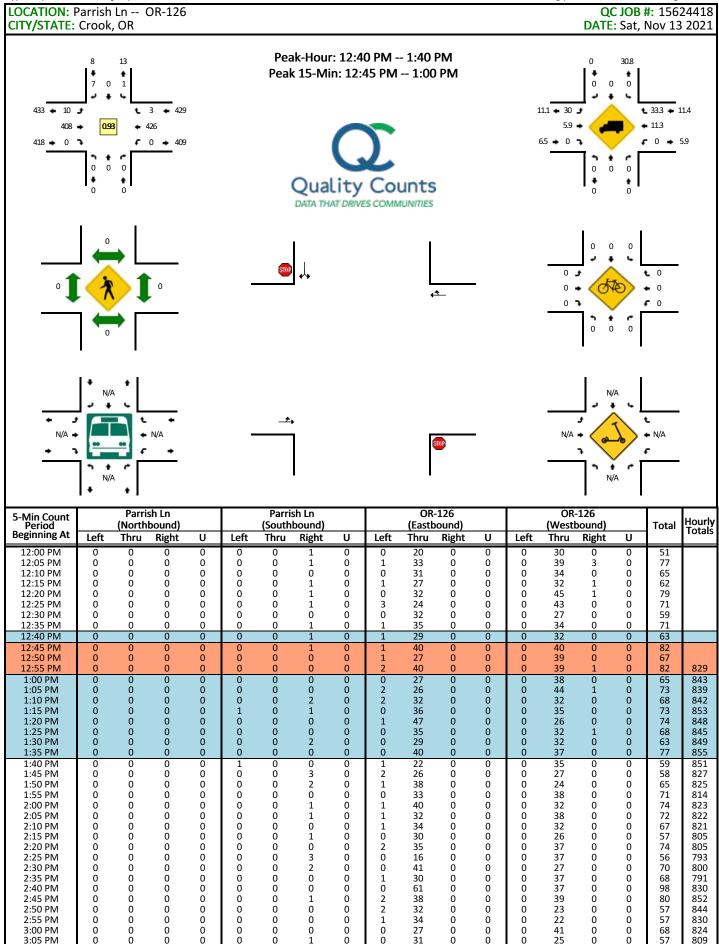
5-Min Count Period			ey Rd bound)				ey Rd bound)				-126 oound)				-126 bound)		Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		Totals
3:10 PM	0	0	0	0	0	0	1	0	0	33	2	0	2	22	0	0	60	854
3:15 PM	1	0	1	0	0	0	0	0	0	35	1	0	0	36	0	0	74	860
3:20 PM	1	0	0	0	0	0	0	0	0	43	0	0	0	49	0	0	93	884
3:25 PM	2	0	0	0	0	0	0	0	0	30	0	0	0	42	0	0	74	886
3:30 PM	1	0	0	0	0	0	0	0	0	22	1	0	0	36	0	0	60	875
3:35 PM	2	0	0	0	0	0	1	0	0	44	2	0	0	30	0	0	79	861
3:40 PM	1	0	1	0	0	0	0	0	0	40	1	0	0	33	0	0	76	849
3:45 PM	0	0	0	0	0	0	0	0	0	27	2	0	0	30	0	0	59	818
3:50 PM	0	0	0	0	0	0	0	0	0	37	1	0	0	38	0	0	76	839
3:55 PM	1	0	0	0	0	0	0	0	0	32	3	0	0	26	0	0	62	847
Peak 15-Min		North	bound			South	bound			Eastb	ound			Westl	oound		т.	a - 1
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	1 10	tal
All Vehicles	36	0	4	0	0	0	0	0	0	420	12	0	0	468	0	0	94	40
Heavy Trucks	4	0	0		0	0	0		0	32	0		0	56	0		9	2
Buses																		
Pedestrians		0				0				0				0				0
Bicycles Scooters	0	0	0		0	0	0		0	0	0		0	0	0		(	0
Comments:																		



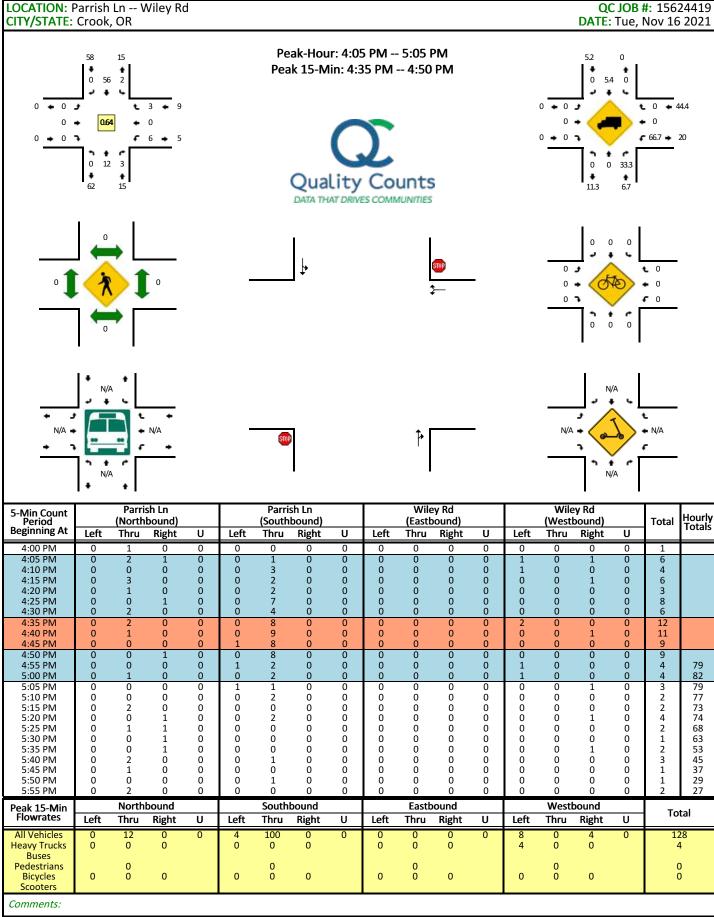


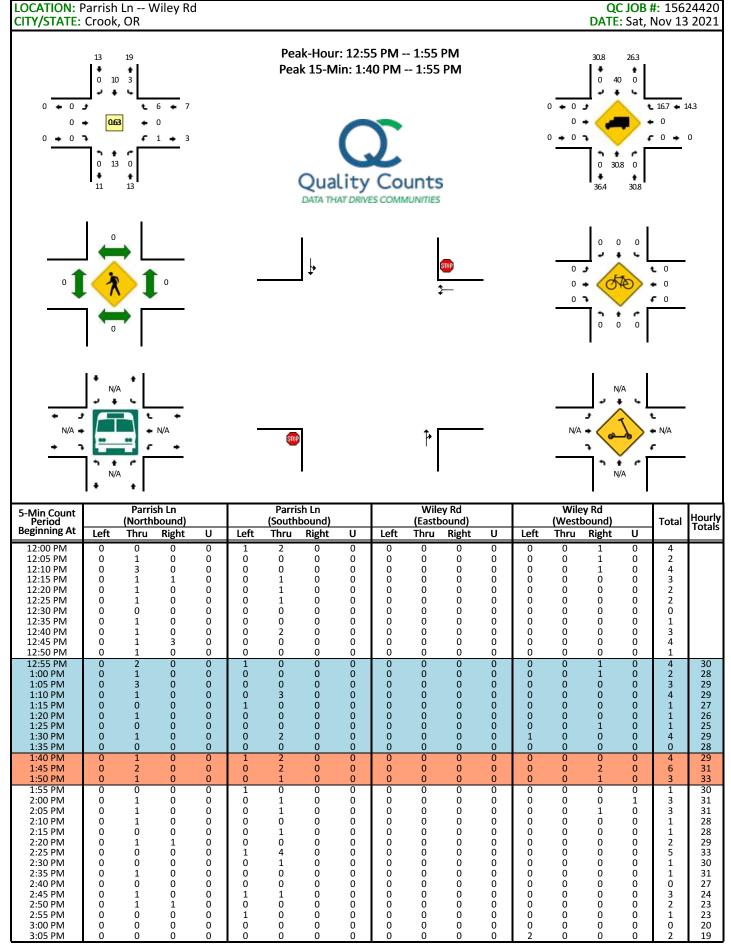
5-Min Count Period		Minso (North	on Rd bound)				on Rd bound)				-126 oound)				-126 bound)		Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		TOtals
3:10 PM	0	0	0	0	0	0	0	0	1	31	0	0	0	27	1	0	60	815
3:15 PM	0	0	0	0	0	0	0	0	1	32	0	0	0	38	0	0	71	830
3:20 PM	0	0	0	0	0	0	1	0	0	43	0	0	0	43	0	0	87	849
3:25 PM	0	0	0	0	0	0	0	0	0	30	0	0	0	47	0	0	77	856
3:30 PM	0	0	0	0	0	0	0	0	0	21	0	0	0	30	0	0	51	843
3:35 PM	0	0	0	0	0	0	0	0	0	45	0	0	0	27	0	0	72	834
3:40 PM	0	0	0	0	0	0	2	0	0	40	0	0	0	34	0	0	76	815
3:45 PM	0	0	0	0	0	0	0	0	0	31	0	0	0	31	0	0	62	796
3:50 PM	0	0	0	0	0	0	0	0	0	36	0	0	0	34	0	0	70	809
3:55 PM	0	0	0	0	0	0	0	0	0	33	0	0	0	35	0	0	68	823
Peak 15-Min		North	bound			South	bound			Eastb	ound			Westl	oound		т.	4-1
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	1 10	tal
All Vehicles	0	0	0	0	0	0	12	0	4	388	0	0	0	500	0	0	90	04
Heavy Trucks	0	0	0		0	0	4		0	36	0		0	48	0		8	8
Buses																		
Pedestrians		0				0				0				0				)
Bicycles Scooters	0	0	0		0	0	0		0	0	0		0	0	0		(	)
Comments:																		



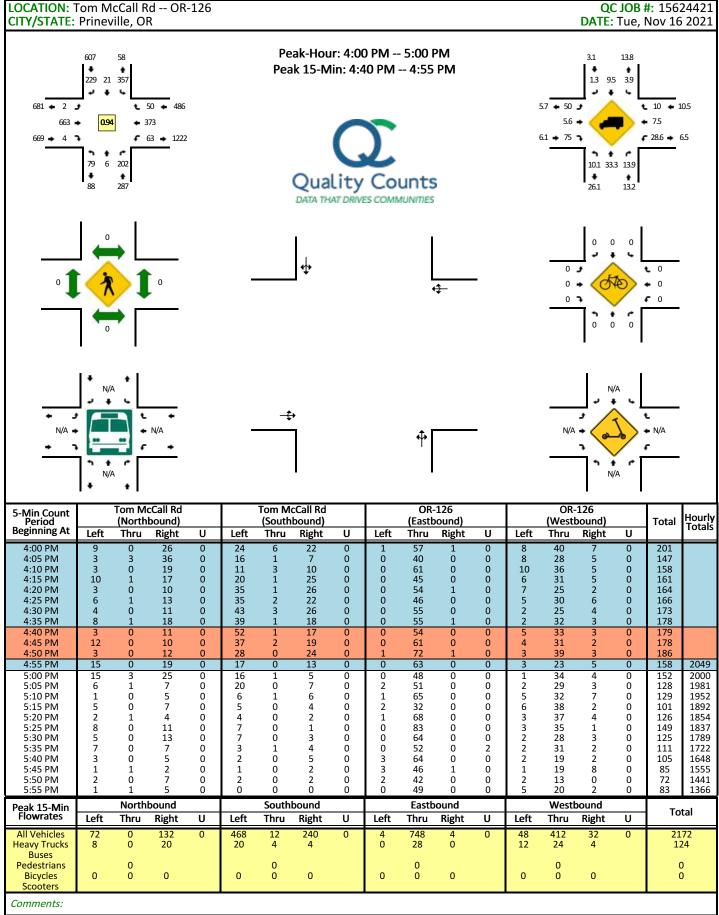


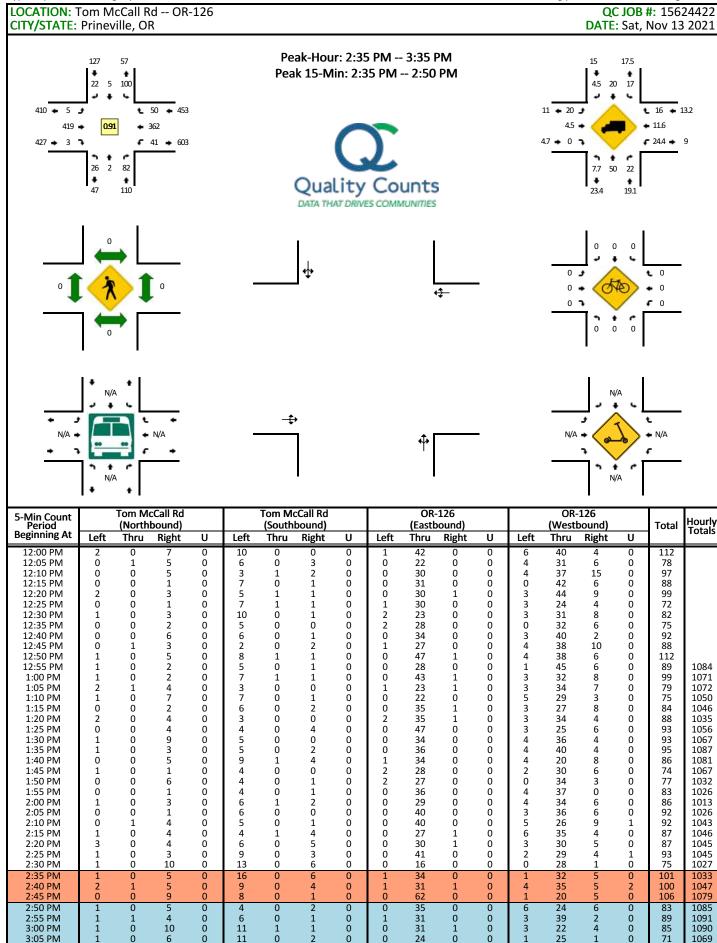
5-Min Count Period		Parri: (North	sh Ln bound)				sh Ln bound)				-126 oound)				-126 bound)		Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		Totals
3:10 PM	0	0	0	0	1	0	2	0	0	32	0	0	0	29	0	0	64	806
3:15 PM	0	0	0	0	0	0	2	0	0	31	0	0	0	41	0	0	74	823
3:20 PM	0	0	0	0	0	0	1	0	1	41	0	0	0	34	0	0	77	826
3:25 PM	0	0	0	0	0	0	1	0	1	33	0	0	0	43	0	0	78	848
3:30 PM	0	0	0	0	1	0	2	0	1	24	0	0	0	23	1	0	52	830
3:35 PM	0	0	0	0	0	0	0	0	0	37	0	0	0	39	0	0	76	838
3:40 PM	0	0	0	0	0	0	0	0	2	30	0	0	0	31	0	0	63	803
3:45 PM	0	0	0	0	0	0	1	0	1	44	0	0	0	34	0	0	80	803
3:50 PM	0	0	0	0	0	0	2	0	0	35	0	0	0	29	0	0	66	812
3:55 PM	0	0	0	0	0	0	0	0	0	21	0	0	0	33	0	0	54	809
Peak 15-Min		North	bound			South	bound			Eastb	ound			Westl	oound		т.	4-1
Flowrates	Left	Thru	Right	Ω	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	10	tal
All Vehicles	0	0	0	0	0	0	4	0	16	428	0	0	0	472	4	0	92	24
Heavy Trucks	0	0	0		0	0	0		4	24	0		0	72	0		10	00
Buses																		
Pedestrians		0				0				0				0				0
Bicycles Scooters	0	0	0		0	0	0		0	0	0		0	0	0		(	0
Comments:																		



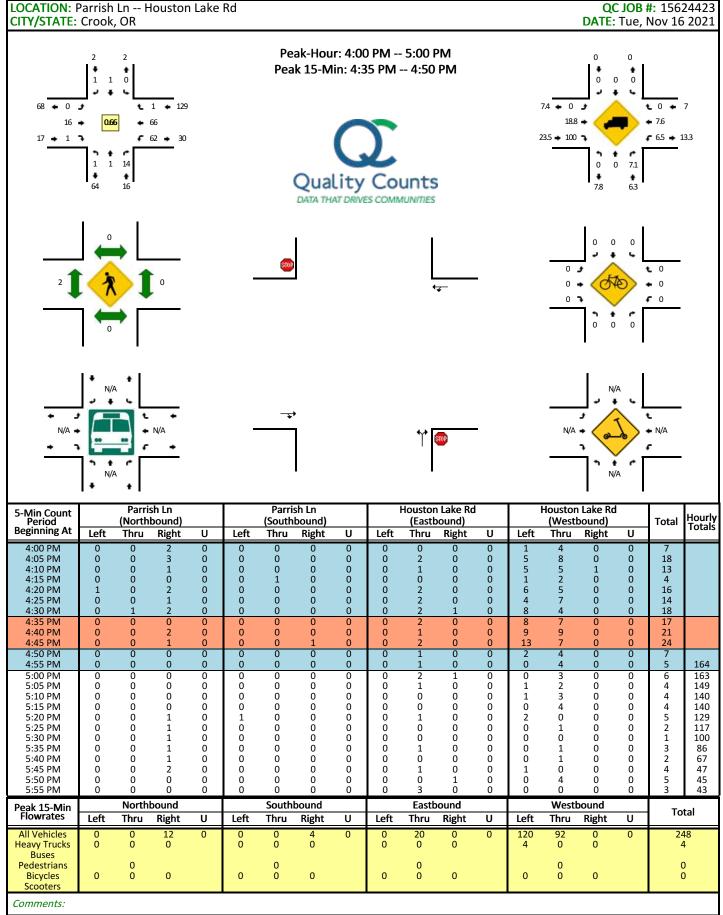


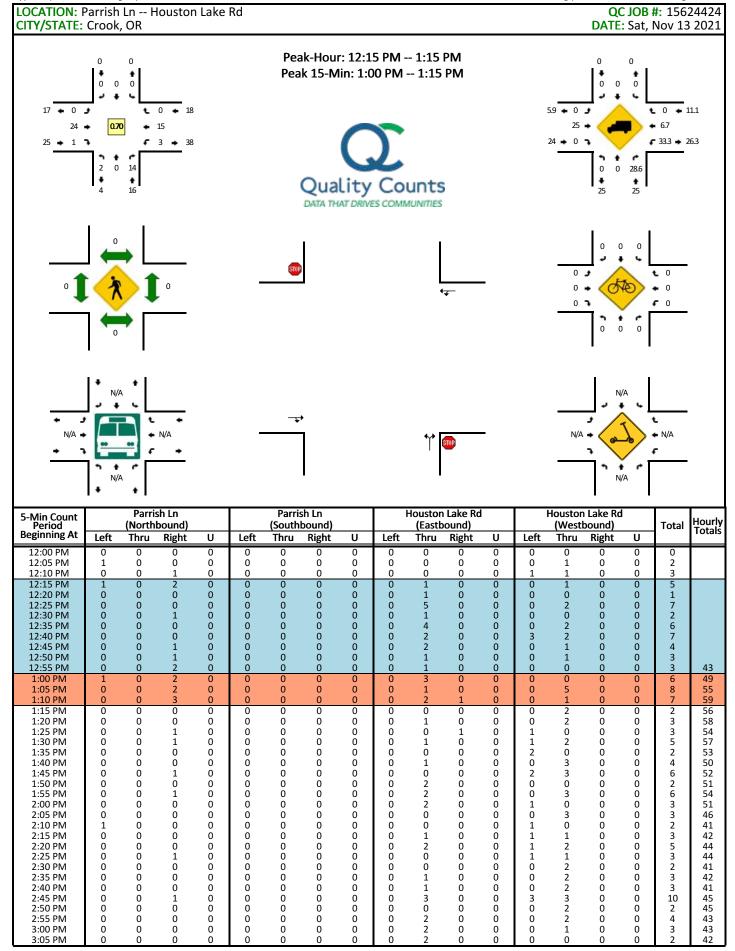
5-Min Count Period			sh Ln bound)				sh Ln bound)				ey Rd bound)				y Rd bound)		Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		TOtals
3:10 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	19
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	20
3:20 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	20
3:25 PM	0	1	0	0	0	2	0	0	0	0	0	0	1	0	0	0	4	19
3:30 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	3	21
3:35 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	21
3:40 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	22
3:45 PM	0	2	0	0	0	1	0	0	0	0	0	0	1	0	1	0	5	24
3:50 PM	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	2	24
3:55 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Peak 15-Min		North	bound			South	bound			Eastb	ound			Westl	oound		т.	A - I
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	То	tai
All Vehicles	0	16	0	0	4	20	0	0	0	0	0	0	0	0	12	0	5	2
Heavy Trucks	0	4	0		0	12	0		0	0	0		0	0	0		1	6
Buses																		
Pedestrians		0				0				0				0			(	)
Bicycles Scooters	0	0	0		0	0	0		0	0	0		0	0	0		(	)
Comments:																		



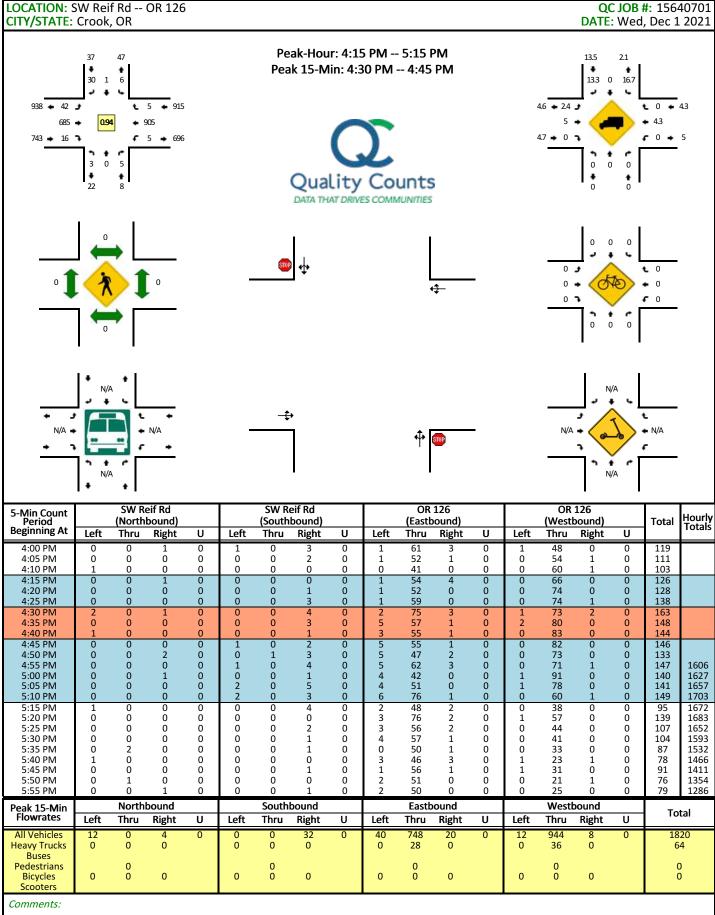


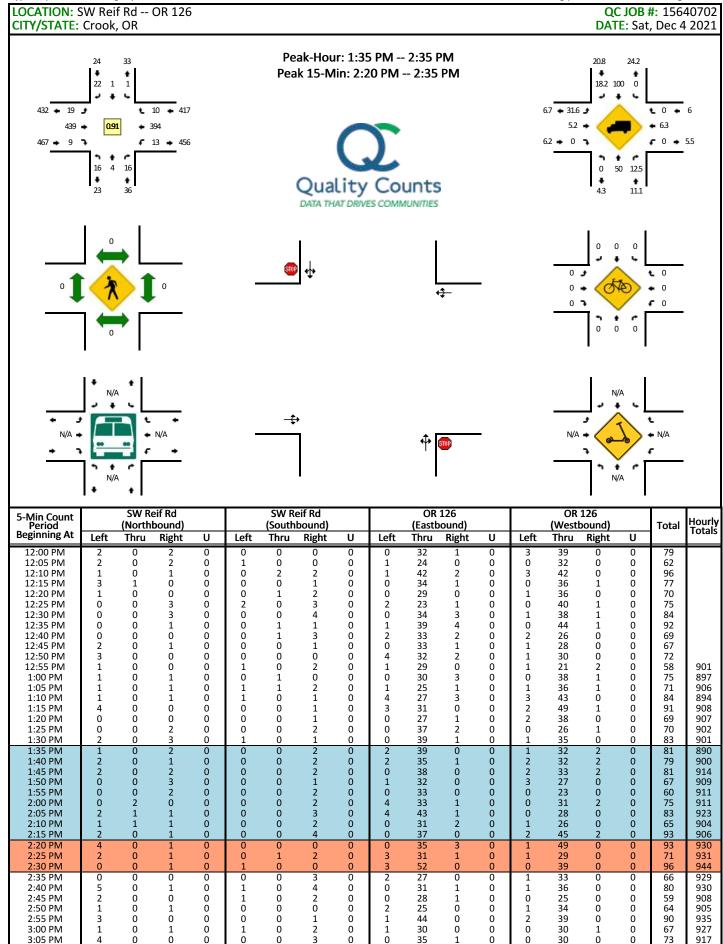
5-Min Count Period			cCall Rd bound)				cCall Rd bound)				-126 oound)				-126 bound)		Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		TOtals
3:10 PM	1	0	5	0	11	2	3	0	0	29	0	0	5	35	6	0	97	1074
3:15 PM	3	0	10	0	3	1	0	0	1	36	0	0	3	37	5	0	99	1086
3:20 PM	11	0	6	0	9	0	1	0	0	36	0	0	3	33	3	0	102	1101
3:25 PM	2	0	6	0	7	1	0	0	0	33	1	0	5	23	4	0	82	1090
3:30 PM	2	0	11	0	5	0	1	0	1	37	0	0	4	37	4	0	102	1117
3:35 PM	0	0	0	0	4	0	3	0	1	19	0	0	3	28	4	0	62	1078
3:40 PM	0	1	8	0	2	1	0	0	0	41	0	0	1	35	5	0	94	1072
3:45 PM	1	0	3	0	9	1	1	0	0	26	0	0	3	30	3	0	77	1043
3:50 PM	1	0	8	0	4	0	2	0	1	45	0	0	7	32	2	0	102	1062
3:55 PM	1	0	3	0	4	0	2	0	1	30	0	1	2	25	2	0	71	1044
Peak 15-Min		North	bound			South	bound			Eastb	ound			West	oound		т.	4-1
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	10	tal
All Vehicles	12	4	76	0	132	0	44	0	8	508	4	0	24	348	60	8	12	28
Heavy Trucks	0	4	16		20	0	0		0	28	0		12	44	4		12	28
Buses																		
Pedestrians		0				0				0				0			(	)
Bicycles Scooters	0	0	0		0	0	0		0	0	0		0	0	0		(	)
Comments:									-									





5-Min Count Period			sh Ln bound)				sh Ln bound)				Lake Rd oound)		ı		Lake Rd bound)		Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		TOtals
3:10 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	42
3:15 PM	0	0	0	0	0	0	0	0	0	3	0	0	2	3	0	0	8	47
3:20 PM	0	0	0	0	0	0	0	0	0	2	0	0	1	5	0	0	8	50
3:25 PM	0	0	2	0	0	0	0	0	0	2	0	0	2	2	0	0	8	55
3:30 PM	0	0	1	0	0	0	0	0	0	2	0	0	0	1	0	0	4	57
3:35 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	55
3:40 PM	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	3	55
3:45 PM	0	0	2	0	0	0	0	0	0	1	0	0	1	1	0	0	5	50
3:50 PM	2	0	0	0	0	0	0	0	0	1	0	0	0	3	0	0	6	54
3:55 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	5	55
Peak 15-Min		North	bound			South	bound			Eastb	ound			Westl	oound		т.	
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	C	Left	Thru	Right	U	10	tal
All Vehicles	4	0	28	0	0	0	0	0	0	24	4	0	0	24	0	0	8	4
Heavy Trucks Buses	0	0	16		0	0	0		0	8	0		0	4	0		2	.8
Pedestrians		0				0				0				0			(	)
Bicycles Scooters	0	0	0		0	0	0		0	0	0		0	0	0		(	)
Comments:																		





5-Min Count Period		SW Re	eif Rd bound)			SW Ro (South	eif Rd bound)				126 ound)				126 bound)		Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		TOtals
3:10 PM	0	0	0	0	0	0	1	0	1	39	0	0	0	38	0	0	79	931
3:15 PM	0	1	1	0	1	0	2	0	3	29	3	0	1	57	0	0	98	936
3:20 PM	0	0	0	0	0	0	1	0	0	39	0	0	1	37	1	0	79	922
3:25 PM	0	0	2	0	0	0	0	0	0	32	3	0	0	42	0	0	79	930
3:30 PM	1	0	1	0	2	0	0	0	1	44	1	0	0	34	1	0	85	919
3:35 PM	2	0	0	0	0	1	1	0	1	26	0	0	0	33	2	0	66	919
3:40 PM	1	0	1	0	0	0	1	0	1	38	0	0	0	22	0	0	64	903
3:45 PM	1	0	0	0	0	0	1	0	0	20	0	0	1	33	1	0	57	901
3:50 PM	0	0	0	0	0	0	1	0	0	32	0	0	1	39	0	0	73	910
3:55 PM	0	0	0	0	0	0	0	0	0	27	1	0	1	38	0	0	67	887
Peak 15-Min		North	bound			South	bound			Eastb	ound			Westl	bound		т.	4-1
Flowrates	1 - 6-			-	1.6	<b>T</b> I	D: 1 :			T	<b>5</b> 1 1 .	••	Left	TI	D: 1 :		10	tal
Tiowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Leit	Thru	Right	U		
All Vehicles	24	Thru 0	Right 12	0	Lert 4	1nru 4	Right 8	0	Left 24	472	Right 16	0	8	468	Right	0	10	40
All Vehicles Heavy Trucks																		40 8
All Vehicles Heavy Trucks Buses	24	0	12		4	4 4	8		24	472	16		8	468 16	0		4	8
All Vehicles Heavy Trucks Buses Pedestrians	24	0 0 0	12 0		4 0	4 4 0	8 4		24 4	472 20 0	16 0		8	468 16 0	0		4	8
All Vehicles Heavy Trucks Buses	24	0	12		4	4 4	8		24	472	16		8	468 16	0		4	8
All Vehicles Heavy Trucks Buses Pedestrians Bicycles	24	0 0 0	12 0		4 0	4 4 0	8 4		24 4	472 20 0	16 0		8	468 16 0	0		4	8

Report generated on 12/10/2021 2:46 PM

15	4:10	14:25		inpre/pontacco	al(
		on-truck rehale		frack	
80	MIMMI	CO HMWM HMWM HMWW MMWW	M		

0 Enpre/portacell SBT 4:40 4:25 12/15 huy truek non-fuck report to IM the MI WH THE WITH IM 80 MM WI WI WI WI WI WIN WHITH 160 M M W W M M M M MM MM

SBT Enpre/ton McCall 4:55 4:40 12/15 huy trues har frek wehrly 0 quene 90 nere 4050

5=10 12/15 4:55 Empire/Tontalal SBT huy truck non-druk relize 2000 WHITH IM IN (P3) WAS COUNTY WITH IM IN (P3) 0 95x475:00 136+173+151+63-0.76) (173×4) PAF 136+173+151+63 = 0.2%) TRK

## APPENDIX E – EXISTING CONDITIONS OPERATIONAL ANALYSIS WORKSHEET

Intersection						
Int Delay, s/veh	1.6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	NDL 1	7	<u> </u>	7	)	<u> </u>
Traffic Vol, veh/h	52	10	304	34	19	<b>T</b> 275
Future Vol, veh/h	52	10	304	34	19	275
<u> </u>	0	0	0	0	0	0
Conflicting Peds, #/hr						Free
Sign Control RT Channelized	Stop -	Stop	Free	Free None	Free	None
			-	150	- 170	
Storage Length	0	0	-			-
Veh in Median Storage,		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	20	22	5	10	19	3
Mvmt Flow	58	11	338	38	21	306
Major/Minor M	linor1	N	Major1	1	Major2	
Conflicting Flow All	686	338	0	0	376	0
Stage 1	338	-	-	_	-	-
Stage 2	348	<u>-</u>	_	_	<u>-</u>	_
Critical Hdwy	6.6	6.42	_	_	4.29	_
Critical Hdwy Stg 1	5.6	0.42	_	-	4.23	_
	5.6	-	-	<u>-</u>	-	_
Critical Hdwy Stg 2	3.68	3.498	-	-	2.371	-
Follow-up Hdwy	387	661	-	-		
Pot Cap-1 Maneuver			-	-	1095	-
Stage 1	684	-	-	-	-	-
Stage 2	677	-	-	-	-	-
Platoon blocked, %	000	004	-	-	4005	
Mov Cap-1 Maneuver	380	661	-	-	1095	-
Mov Cap-2 Maneuver	380	-	-	-	-	-
Stage 1	684	-	-	-	-	-
Stage 2	664	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	15.3		0		0.5	
HCM LOS	C		U		0.0	
TIOM LOO	U					
Minor Lane/Major Mvmt		NBT	NBRV	VBLn1V		SBL
Capacity (veh/h)		-	-	380	661	1095
HCM Lane V/C Ratio		-	-	0.152		0.019
HCM Control Delay (s)		-	-	16.2	10.5	8.4
HCM Lane LOS		-	-	С	В	Α
HCM 95th %tile Q(veh)		-	-	0.5	0.1	0.1
				0.0	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •

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Intersection						
Int Delay, s/veh	0.6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
		WDR		NDIX	ODL	
Lane Configurations	77	٨	<b>}</b>	E	٥	<b>4</b>
Traffic Vol., veh/h	27	0	291	5	0	299
Future Vol, veh/h	27	0	291	5	0	299
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage,		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	30	0	327	6	0	336
Major/Minor N	/linor1	N	Major1		Major2	
Conflicting Flow All	666	330	0	0	333	0
Stage 1	330	-	-	-	-	-
Stage 2	336	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
		3.318	-	-		-
Pot Cap-1 Maneuver	425	712	-	-	1226	-
Stage 1	728	-	-	-	-	-
Stage 2	724	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	425	712	-	-	1226	-
Mov Cap-2 Maneuver	425	-	-	-	-	-
Stage 1	728	-	-	-	-	-
Stage 2	724	_	_	_	_	_
5.0.55 2						
Approach	WB		NB		SB	
HCM Control Delay, s	14.1		0		0	
HCM LOS	В					
					SBL	SBT
Minor Lane/Major Mymt		NRT	NIRPI	//RIn1		
Minor Lane/Major Mvmt	t	NBT	NBR\			
Capacity (veh/h)	t	-	-	425	1226	-
Capacity (veh/h) HCM Lane V/C Ratio	t	-	-	425 0.071	1226	-
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	t	- - -	- - -	425 0.071 14.1	1226 - 0	- - -
Capacity (veh/h) HCM Lane V/C Ratio		-	-	425 0.071	1226	-

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Intersection												
Int Delay, s/veh	0.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	0	1	0	14	0	2	0	316	31	7	362	1
Future Vol, veh/h	0	1	0	14	0	2	0	316	31	7	362	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	85	85	85	85	85	85	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	8	0	0	0	8	15	17	8	0
Mvmt Flow	0	1	0	16	0	2	0	372	36	8	426	1
Major/Minor N	/linor2			Minor1			Major1		ı	Major2		
	834	851	427	833	833	390	427	0		408	0	0
Conflicting Flow All	443	443		390	390	390		0	0	408		
Stage 1 Stage 2	391	443	-	443	443	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.18	6.5	6.2	4.1	-	-	4.27	-	-
Critical Hdwy Stg 1	6.1	5.5	0.2	6.18	5.5	0.2	4.1	-	_	4.21	-	_
Critical Hdwy Stg 2	6.1	5.5	-	6.18	5.5	-	-	-		-	-	-
Follow-up Hdwy	3.5	3.3 4		3.572	3.5	3.3	2.2	-		2.353	-	_
Pot Cap-1 Maneuver	290	299	632	281	307	663	1143		-	1074	_	_
Stage 1	598	579	- 032	622	611	- 003	- 1140	_	_	10/4	_	_
Stage 1	637	600	<u>-</u>	582	579	-	_			_	-	_
Platoon blocked, %	001	000		JUZ	010		_	_	_		_	_
Mov Cap-1 Maneuver	287	296	632	278	304	663	1143		_	1074	_	_
Mov Cap-1 Maneuver	287	296	- 032	278	304	-	-	_	_	-	_	_
Stage 1	598	573	_	622	611	_	_	_	_	_	_	_
Stage 2	635	600	_	575	573	_	_	_	_	_	_	_
Olago Z	550	500		510	510							
Approach	EB			WB			NB			SB		
HCM Control Delay, s	17.2			17.8			0			0.2		
HCM LOS	С			С								
Minor Lane/Major Mvmt		NBL	NBT	NBR F	EBLn1V	VBLn1	SBL	SBT	SBR			
Capacity (veh/h)		1143	-	-	296	300	1074	-				
HCM Lane V/C Ratio			_			0.063		_	_			
HCM Control Delay (s)		0	_	_	17.2	17.8	8.4	0	_			
HCM Lane LOS		A	-	_	C	C	Α	A	_			
HCM 95th %tile Q(veh)		0	-	_	0	0.2	0	-	_			
riom out /uno a(von)						0.2	_					

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ntersection													
nt Delay, s/veh	44.7												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4	7		₽			ની	7		4		
Traffic Vol, veh/h	5	667	94	276	632	2	70	0	245	0	0	3	
uture Vol, veh/h	5	667	94	276	632	2	70	0	245	0	0	3	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
<u> </u>	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	_	_	None	_	_	None	-	-	None	-	-	None	
Storage Length	_	_	90	170	_	-	_	_	125	_	_	-	
Veh in Median Storage,	# -	0	-	-	0	_	_	0	-	_	0	_	
Grade, %	" <u>-</u>	0	_	_	0	_	_	0	_	_	0	_	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92	
Heavy Vehicles, %	0	6	15	5	6	50	15	0	5	0	0	0	
Nymt Flow	5	725	102	300	687	2	76	0	266	0	0	3	
/IVIII FIOW	5	125	102	300	007	Z	70	U	200	U	U	3	
lajor/Minor M	lajor1			Major2		N	Minor1			Minor2			
Conflicting Flow All	689	0	0	827	0	0	2025	2024	725	2207	2125	688	
Stage 1	- 009	-	-	- 021	-	-	735	735	125	1288	1288	-	
Stage 2	_	_	_	_	_	_	1290	1289	_	919	837	_	
ritical Hdwy	4.1	_	_	4.15	_	_	7.25	6.5	6.25	7.1	6.5	6.2	
ritical Hdwy Stg 1	4.1		-			-	6.25	5.5	0.25	6.1	5.5	0.2	
, ,		-	_	-	-	_	6.25	5.5					
ritical Hdwy Stg 2	-	-	-	-	-	-			- 245	6.1	5.5	-	
ollow-up Hdwy	2.2	-	-	2.245	-	-	3.635		3.345	3.5	4	3.3	
ot Cap-1 Maneuver	915	-	-	791	-	-	~ 39	59	420	32	51	450	
Stage 1	-	-	-	-	-	-	392	428	-	203	237	-	
Stage 2	-	-	-	-	-	-	189	236	-	328	385	-	
latoon blocked, %		-	-		-	-							
Nov Cap-1 Maneuver	915	-	-	791	-	-	~ 27	36	420	8	31	450	
Nov Cap-2 Maneuver	-	-	-	-	-	-	~ 27	36	-	8	31	-	
Stage 1	-	-	-	-	-	-	388	424	-	201	147	-	
Stage 2	-	-	-	-	-	-	116	147	-	119	381	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0.1			3.7			271.8			13.1			
ICM LOS							F			В			
linor Lane/Major Mvmt		NBLn11	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1			
Capacity (veh/h)		27	420	915	-	-	791	-	_	450			
ICM Lane V/C Ratio		2.818		0.006	-	-	0.379	-	-	0.007			
ICM Control Delay (s)	\$ 1	1127.4	27.3	9	0	-	12.3	-	-	13.1			
ICM Lane LOS	•	F	D	A	A	-	В	-	_	В			
ICM 95th %tile Q(veh)		9.2	4.3	0	-	-	1.8	-	-	0			
lotes													
	14: :	ф. D	Java su		١٨-			Nat D	fin a -l	*. AU		ali uas s	
Volume exceeds capa	acity	\$: De	elay exc	eeds 30	JUS -	-: Comp	outation	Not De	Tined	": All i	major v	olume ir	n platoon

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Intersection												
Int Delay, s/veh	1.4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	42	824	17	6	890	6	5	0	6	5	1	31
Future Vol, veh/h	42	824	17	6	890	6	5	0	6	5	1	31
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	3	5	0	0	4	0	0	0	0	0	0	15
Mvmt Flow	45	877	18	6	947	6	5	0	6	5	1	33
Major/Minor I	Major1		_	Major2			Minor1			/linor2		
Conflicting Flow All	953	0	0	895	0	0	1955	1941	886	1941	1947	950
Stage 1	300	-	-	090	-	-	976	976	- 000	962	962	950
Stage 2	_	_	_	_	_	-	979	965	_	979	985	_
Critical Hdwy	4.13	_	_	4.1			7.1	6.5	6.2	7.1	6.5	6.35
Critical Hdwy Stg 1	<del>-</del> .10	_	_	7.1	_	_	6.1	5.5	- 0.2	6.1	5.5	0.00
Critical Hdwy Stg 2	_	_	_	_	_	_	6.1	5.5	_	6.1	5.5	_
Follow-up Hdwy	2.227	_	_	2.2	_	_	3.5	4	3.3	3.5	4	3.435
Pot Cap-1 Maneuver	717	-	-	767	-	-	49	66	346	50	65	298
Stage 1	-	_	_	_	_	_	305	332	-	310	337	-
Stage 2	-	-	-	-	-	-	304	336	-	304	329	-
Platoon blocked, %		-	_		-	-						
Mov Cap-1 Maneuver	717	-	-	767	-	-	38	57	346	44	56	298
Mov Cap-2 Maneuver	-	-	-	-	-	-	38	57	-	44	56	-
Stage 1	-	-	-	-	-	-	267	291	-	271	331	-
Stage 2	-	-	-	-	-	-	265	330	-	261	288	-
Approach	EB			WB			NB			SB		
HCM LOS	0.5			0.1			62.6 F			35.4 E		
HCM LOS							r					
Minor Lane/Major Mvm	nt I	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1			
Capacity (veh/h)		74	717	-	-	767	-	-	157			
HCM Lane V/C Ratio			0.062	-	-	0.008	-	-	0.251			
HCM Control Delay (s)		62.6	10.4	0	-	9.7	0	-	35.4			
HCM Lane LOS		F	В	Α	-	Α	Α	-	Е			
HCM 95th %tile Q(veh)		0.5	0.2	-	-	0	-	-	0.9			

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Intersection												
Int Delay, s/veh	2.3											
		EDT		WDI	WDT	WDD	NDI	NDT	NDD	ODI	ODT	000
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	4=	4	_	•	4	4=	4	નુ	7	_	4	00
Traffic Vol, veh/h	45	811	7	3	813	17	1	0	2	7	1	82
Future Vol, veh/h	45	811	7	3	813	17	1	0	2	7	1	82
Conflicting Peds, #/hr	_ 0	_ 0	_ 0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	90	-	-	-
Veh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	5	5	0	0	6	13	0	0	0	0	0	4
Mvmt Flow	51	922	8	3	924	19	1	0	2	8	1	93
Major/Minor I	Major1			Major2			Minor1		_	Minor2		
Conflicting Flow All	943	0	0	930	0	0	2015	1977	926	1969	1972	934
Stage 1	-	-	-	-	-	-	1028	1028	-	940	940	-
Stage 2	_	_	_	_	_	_	987	949	<u>-</u>	1029	1032	_
Critical Hdwy	4.15	_	_	4.1	_	_	7.1	6.5	6.2	7.1	6.5	6.24
Critical Hdwy Stg 1	٦.١٥	_	_	T. I	<u>-</u>	_	6.1	5.5	- 0.2	6.1	5.5	- U.Z.T
Critical Hdwy Stg 2	_	_	_	_	_	_	6.1	5.5	_	6.1	5.5	_
Follow-up Hdwy	2.245	_	_	2.2	_	_	3.5	4	3.3	3.5	4	3.336
Pot Cap-1 Maneuver	715	_	_	744	_	_	44	63	329	48	63	319
Stage 1	- 10	_	_		<u>-</u>	_	285	314	-	319	345	-
Stage 2	_	_	_	_	_	_	300	342	_	285	313	_
Platoon blocked, %		_	_		<u>-</u>	_	000	UTL		200	510	
Mov Cap-1 Maneuver	715	_	_	744	_	_	27	53	329	42	53	319
Mov Cap-1 Maneuver	- 10		_		_	_	27	53	-	42	53	-
Stage 1	_	_	_	_	_	_	243	268	_	272	342	_
Stage 2	_	_	_	_	_	_	210	339	<u>-</u>	241	267	<u>-</u>
Jugo 2							210	500		<u>_</u> TI	201	
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.5			0			58.7			39.5		
HCM LOS							F			E		
Minor Lane/Major Mvm	ıt	NBLn1 I	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1		
Capacity (veh/h)		27	329	715	-	_	744	-	-	203		
HCM Lane V/C Ratio				0.072	_	_	0.005	_	_	0.504		
HCM Control Delay (s)		144.1	16	10.4	0	-	9.9	0	-			
HCM Lane LOS		F	C	В	A	_	A	A	_	E		
HCM 95th %tile Q(veh)		0.1	0	0.2	-	_	0	-	-	2.5		
		0.1		J.L								

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Intersection						
Int Delay, s/veh	0.6					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	₽	LDIN	WDL	₩ <u>₩</u>	₩.	NDIX
Traffic Vol, veh/h	793	35	3	822	14	7
Future Vol, veh/h	793	35	3	822	14	7
<u>'</u>	193	0	0	022	0	0
Conflicting Peds, #/hr	Free	Free	Free	Free	Stop	
Sign Control RT Channelized		None		None		Stop None
	-		-		-	None
Storage Length	<u> </u>	-	-	-	0	-
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	5	0	0	6	0	0
Mvmt Flow	891	39	3	924	16	8
Major/Minor N	/lajor1	N	Major2	N	/linor1	
Conflicting Flow All	0	0	930		1841	911
Stage 1	-	-	-	-	911	-
Stage 2	_	<u>-</u>	_	<u>-</u>	930	_
Critical Hdwy		_	4.1		6.4	6.2
Critical Hdwy Stg 1		_	4.1	_	5.4	0.2
	-			-	5.4	
Critical Hdwy Stg 2	-		2.2			-
Follow-up Hdwy	-	-		-	3.5	3.3
Pot Cap-1 Maneuver	-	-	744	-	84	335
Stage 1	-	-	-	-	395	-
Stage 2	-	-	-	-	387	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	744	-	83	335
Mov Cap-2 Maneuver	-	-	-	-	83	-
Stage 1	-	-	-	-	395	-
Stage 2	-	-	-	-	384	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		46	
HCM LOS	U		U		E	
TIOW LOS					<u> </u>	
Minor Lane/Major Mvmt	t 1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		111	-	-	744	-
HCM Lane V/C Ratio		0.213	-	-	0.005	-
HCM Control Delay (s)		46	-	-	9.9	0
HCM Lane LOS		Е	-	-	Α	Α
HCM 95th %tile Q(veh)		8.0	-	-	0	-

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Intersection						
Int Delay, s/veh	0.3					
		EDT	WDT	WDD	CDI	CDD
Movement Configurations	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	6	<b>€</b>	<b>}</b>	2	<b>Y</b>	12
Traffic Vol, veh/h	6	785 785	822 822	2	2	12
Future Vol, veh/h	0			2		
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	<b>-</b>	-	-	-	0	-
Veh in Median Storage		0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	20	6	6	50	50	20
Mvmt Flow	7	882	924	2	2	13
Major/Minor I	Major1	N	Major2	N	Minor2	
Conflicting Flow All	926	0	-	0	1821	925
Stage 1	-	-	_	-	925	-
Stage 2	_	_	_	_	896	_
Critical Hdwy	4.3	_	_	_	6.9	6.4
Critical Hdwy Stg 1			_	<u>-</u>	5.9	- 0.4
Critical Hdwy Stg 2		_	_	_	5.9	_
	2.38	-		<u>-</u>	3.95	3.48
Follow-up Hdwy	669	-	-			
Pot Cap-1 Maneuver		-	-	-	64	302
Stage 1	-	-	-	-	319	-
Stage 2	-	-	-	-	330	-
Platoon blocked, %	000	-	-	-	00	000
Mov Cap-1 Maneuver	669	-	-	-	63	302
Mov Cap-2 Maneuver	-	-	-	-	63	-
Stage 1	-	-	-	-	312	-
Stage 2	-	-	-	-	330	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		25	
HCM LOS	0.1		U		D	
TIOWI LOO					U	
Minor Lane/Major Mvm	<u>ıt</u>	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		669	-	-	-	196
HCM Lane V/C Ratio		0.01	-	-	-	0.08
HCM Control Delay (s)		10.4	0	-	-	25
HCM Lane LOS		В	Α	-	-	D
HCM 95th %tile Q(veh)		0	-	-	-	0.3
.,						

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Intersection						
Int Delay, s/veh	1.2					
		FOT	MOT	14/00	051	000
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		र्स	f)		¥	
Traffic Vol, veh/h	13	768	755	1	6	74
Future Vol, veh/h	13	768	755	1	6	74
Conflicting Peds, #/hr	0	0	0	0	0	0
•	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	<b>#</b> -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	0	6	6	0	0	5
Mvmt Flow	15	873	858	1	7	84
Main (Min an M	-!1		4-:0		#:O	
	ajor1		Major2		/linor2	
Conflicting Flow All	859	0	-	0	1762	859
Stage 1	-	-	-	-	859	-
Stage 2	-	-	-	-	903	-
Critical Hdwy	4.1	-	-	-	6.4	6.25
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.345
Pot Cap-1 Maneuver	791	-	-	-	94	352
Stage 1	-	-	-	-	418	-
Stage 2	-	-	-	-	399	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	791	-	-	-	91	352
Mov Cap-2 Maneuver	-	-	-	-	91	-
Stage 1	_	-	_	-	403	-
Stage 2	_	_	-	_	399	_
5 th go =						
			14/5		0.5	
Approach	EB		WB		SB	
HCM Control Delay, s	0.2		0		23	
HCM LOS					С	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR :	SRI n1
		791	LDI	VVD I	יוטיי	
Capacity (veh/h)		0.019			-	290
		U.U 19	-	-	-	0.313
HCM Lane V/C Ratio			0			വാ
HCM Lane V/C Ratio HCM Control Delay (s)		9.6	0	-	-	23
HCM Lane V/C Ratio			0 A	-	-	23 C 1.3

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Intersection						
Int Delay, s/veh	1.2					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
	WDL	WDK		INDK	ODL	
Lane Configurations		2	<b>}</b>	2	2	<del>લ</del> 65
Traffic Vol, veh/h	6	3	12	2	3	65
Future Vol, veh/h	6	3	12	2	3	65
Conflicting Peds, #/hr	0	0	0	_ 0	0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage,		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	62	62	62	62	62	62
Heavy Vehicles, %	60	0	0	50	0	5
Mvmt Flow	10	5	19	3	5	105
Major/Minor N	linor1	N	Major1	N	Major2	
Conflicting Flow All	136	21	0	0	22	0
Stage 1	21	-	-	-	-	-
Stage 2	115	_	_	_	_	_
Critical Hdwy	7	6.2	-	<u>-</u>	4.1	-
Critical Hdwy Stg 1	6	0.2	-	-	4.1	-
	6	-	-	-		
Critical Hdwy Stg 2	4.04	3.3		-	2.2	-
Follow-up Hdwy	738	1062	-	-	1607	-
Pot Cap-1 Maneuver			-	-	1007	-
Stage 1	871	-	-	-	-	-
Stage 2	784	-	-	-	-	-
Platoon blocked, %	700	4000	-	-	4007	-
Mov Cap-1 Maneuver	736	1062	-	-	1607	-
Mov Cap-2 Maneuver	736	-	-	-	-	-
Stage 1	871	-	-	-	-	-
Stage 2	782	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	9.5		0		0.3	
HCM LOS	9.5 A		U		0.5	
I IOIVI LOG	Α					
Minor Lane/Major Mvmt		NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	820	1607	-
HCM Lane V/C Ratio		-	-	0.018	0.003	-
HCM Control Delay (s)		-	-	9.5	7.2	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh)		-	-	0.1	0	-

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Intersection						
Int Delay, s/veh	3.6					
		EDD	\\/DI	WDT	NDI	NDD
	EBT_	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>}</b>	0	CC	<del>વ</del>	Y	10
Traffic Vol, veh/h	20	2	66	68	1	10
Future Vol, veh/h	20	2	66	68	1	10
Conflicting Peds, #/hr	0	0	0	0	2	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	60	60	60	60	60	60
Heavy Vehicles, %	12	50	2	12	0	11
Mvmt Flow	33	3	110	113	2	17
Major/Minor Ma	ajor1	N	Major2	N	/linor1	
Conflicting Flow All	0	0	36	0	370	35
Stage 1	-	-	-	-	35	-
Stage 2	_	_	_	<u>-</u>	335	<u>-</u>
Critical Hdwy			4.12	_	6.4	6.31
Critical Hdwy Stg 1	_	_	7.1∠		5.4	0.01
Critical Hdwy Stg 2	_	_	-	_	5.4	_
Follow-up Hdwy	-	_	2.218	_		3.399
Pot Cap-1 Maneuver	-	-	1575	-	634	1013
Stage 1	-	-	13/3	-	993	1013
Stage 1	-	-	-	_	729	-
		-	-		129	
Platoon blocked, %	-	-	1575	-	EOE	1012
Mov Cap-1 Maneuver	-	-	1575	-	585	1013
Mov Cap-2 Maneuver	-	-	-	-	585	-
Stage 1	-	-	-	-	993	-
Stage 2	-	-	-	-	673	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		3.7		8.9	
HCM LOS	•		•		A	
TICIVI LOG						
		IDL 4	EDT	EDD	MDI	MOT
Minor Lane/Major Mvmt	١	NBLn1	EBT	EBR	WBL	WBT
Minor Lane/Major Mvmt Capacity (veh/h)		950	-	-	1575	-
Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio		950 0.019	<u>EBT</u> - -	-	1575 0.07	-
Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		950 0.019 8.9	-	-	1575 0.07 7.5	- - 0
Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio		950 0.019	-	-	1575 0.07	-

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Intersection						
Int Delay, s/veh	0					
		EDT	WDT	WDD	CDI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	•	નું	f)	•	¥	•
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	25	25	25	25	25	25
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	0	0	0	0	0
Majay/Minay M	1=:==1		/a:a#0		Air and	
	lajor1		Major2		Minor2	
Conflicting Flow All	4	0	-	0	4	4
Stage 1	-	-	-	-	4	-
Stage 2	-	-	-	-	0	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1631	-	-	-	1023	1085
Stage 1	-	-	-	-	1024	-
Stage 2	-	-	-	-	-	-
Platoon blocked, %		-	-	-		
	1631	-	_	_	1023	1085
Mov Cap-2 Maneuver	_	-	_	-	1023	-
Stage 1	_	_	_	_	1024	_
Stage 2	_	_	_	_	-	_
otago 2						
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS					Α	
					WIDD	SBLn1
Minor Lane/Major Mymt		FRI	ERT	\//RT		
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	JULITI
Capacity (veh/h)		1631	-	-	-	-
Capacity (veh/h) HCM Lane V/C Ratio		1631 -	-	-	- -	-
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		1631 - 0	- - -	- -	- - -	- - 0
Capacity (veh/h) HCM Lane V/C Ratio		1631 -	-	-	- -	-

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Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
		NOK		אסויו	SDL	
Lane Configurations	<b>Y</b>	0	<b>1</b>	0	0	<b>ન</b>
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	O Ctop	O Ctop	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	25	25	25	25	25	25
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	0	0	0	0	0
Major/Minor N	/linor1	N	Major1	N	/lajor2	
Conflicting Flow All	4	0	0	0	0	0
Stage 1	0	-	-	-	-	-
Stage 2	4	<u>-</u>	_	<u>-</u>	<u>-</u>	_
Critical Hdwy	6.4	6.2	_	_	4.1	_
Critical Hdwy Stg 1	5.4	- 0.2	_	_	7.1	_
Critical Hdwy Stg 2	5.4	_	-		-	
Follow-up Hdwy	3.5	3.3		<u>-</u>	2.2	-
Pot Cap-1 Maneuver	1023					-
•		-	-	-	-	-
Stage 1	1004		-	-	-	-
Stage 2	1024	-	-	-	-	-
Platoon blocked, %	4000		-	-		-
Mov Cap-1 Maneuver	1023	-	-	-	-	-
Mov Cap-2 Maneuver	1023	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1024	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	A		U		U	
I IOIVI LOS	А					
Minor Lane/Major Mvm	t	NBT	NBRV	WBLn1	SBL	SBT
Capacity (veh/h)		-	-	-	-	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		-	-	0	0	-
HCM Lane LOS		-	-	Α	Α	-
HCM 95th %tile Q(veh)		-	-	-	-	-

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Intersection						
Int Delay, s/veh	0					
	EBL	EDT	WDT	WDD	CDI	CDD
Movement Configurations	ERF	EBT	WBT	WBR	SBL	SBR
Lane Configurations	^	<u>ન</u>	<b>₽</b>	^	¥	^
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,		0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	25	25	25	25	25	25
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	0	0	0	0	0
Major/Minor M	ajor1	N	Major2	N	/linor2	
Conflicting Flow All	4	0	-	0	4	4
Stage 1		-	_	-	4	
Stage 2	_	_	_	_	0	<u>-</u>
Critical Hdwy	4.1	_	_		6.4	6.2
Critical Hdwy Stg 1	4.1	_	_		5.4	0.2
Critical Hdwy Stg 2	_	-	-	-	5.4	_
Follow-up Hdwy	2.2	_	-		3.5	3.3
	1631	-	-	-	1023	1085
Stage 1	-	_	-	-	1023	1005
Stage 2	-	-	-	-	1024	-
	-	-	-	-	-	-
Platoon blocked, %	1001	-	-	_	1000	1005
	1631	-	-	-	1023	1085
Mov Cap-2 Maneuver	-	-	-	-	1023	-
Stage 1	-	-	-	-	1024	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS			•		A	
					, ,	
TICIVI LOS						
				MOT	14/00	001 4
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	SBLn1
Minor Lane/Major Mvmt Capacity (veh/h)		EBL 1631	EBT -	WBT -	WBR S	SBLn1 -
Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio		1631 -	EBT -	WBT - -	WBR :	-
Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		1631 - 0	-	-	-	- - 0
Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio		1631 -	- -	-	- -	-

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Intersection						
Int Delay, s/veh	1.7					
	WBL	WDD	NBT	NBR	SBL	SBT
Movement		WBR		NDK	ODL	
Lane Configurations	<b>Y</b>	eo.	<b>♣</b>	0	70	4
Traffic Vol. veh/h	0	63	291	0	72	299
Future Vol, veh/h	0	63	291	0	72	299
Conflicting Peds, #/hr	0		0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-		-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	- 04	0	- 04	- 04	0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	67	310	0	77	318
Major/Minor N	Minor1	N	Major1	1	Major2	
Conflicting Flow All	782	310	0	0	310	0
Stage 1	310	-	-	_	-	-
Stage 2	472	_	-	-	_	_
Critical Hdwy	6.42	6.22	-	-	4.12	_
Critical Hdwy Stg 1	5.42	-	_	-	-	_
Critical Hdwy Stg 2	5.42	_	_	_	_	_
Follow-up Hdwy		3.318	_	_	2.218	_
Pot Cap-1 Maneuver	363	730	_	_	1250	_
Stage 1	744	-	_	-	-	_
Stage 2	628	_	_	_	_	_
Platoon blocked, %	020		_	_		_
Mov Cap-1 Maneuver	336	730	_	_	1250	_
Mov Cap-2 Maneuver	336	-	_	_	1200	_
Stage 1	744	_	_	_	_	_
Stage 2	581	_	_	_	_	_
Stage 2	501	-	-	_	_	-
Approach	WB		NB		SB	
HCM Control Delay, s	10.4		0		1.6	
HCM LOS	В					
Minor Lane/Major Mvm	+	NBT	NIDDV	WBLn1	SBL	SBT
Capacity (veh/h)		-	-	730 0.092	1250	-
HCM Control Doloy (a)		-				0
HCM Control Delay (s)		-	-	10.4 B	8.1 A	
		-	-	В	А	Α
HCM Lane LOS HCM 95th %tile Q(veh)				0.3	0.2	_

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Intersection							
Int Delay, s/veh	1.6						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	YVDL T	T T	<u>ND1</u>	TO IN	) j	<u> </u>	
Traffic Vol, veh/h	39	16	162	29	9	171	
Future Vol, veh/h	39	16	162	29	9	171	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-		-	None	
Storage Length	0	0	_	150	170	-	
Veh in Median Storage		_	0	-	-	0	
Grade, %	0	-	0	-	_	0	
Peak Hour Factor	95	95	95	95	95	95	
Heavy Vehicles, %	9	14	4	4	0	7	
Mvmt Flow	41	17	171	31	9	180	
		• • •		•			
NA - 1 /NA1	M		1.1.4		4.1.0		
	Minor1		Major1		Major2		
Conflicting Flow All	369	171	0	0	202	0	
Stage 1	171	-	-	-	-	-	
Stage 2	198	-	-	-	-	-	
Critical Hdwy	6.49	6.34	-	-	4.1	-	
Critical Hdwy Stg 1	5.49	-	-	-	-	-	
Critical Hdwy Stg 2	5.49	- 400	-	-	-	-	
Follow-up Hdwy	3.581		-	-	2.2	-	
Pot Cap-1 Maneuver	618	843	-	-	1382	-	
Stage 1	842	-	-	-	-	-	
Stage 2	819	-	-	-	-	-	
Platoon blocked, %	614	0.42	-	-	1200	-	
Mov Cap-1 Maneuver	614	843	-	-	1382	-	
Mov Cap-2 Maneuver	614 842	-	-	-	-	-	
Stage 1	813	-	-	-	-	-	
Stage 2	013	-	-	-	-	-	
Approach	WB		NB		SB		
HCM Control Delay, s	10.7		0		0.4		
HCM LOS	В						
Minor Lane/Major Mvm	t	NBT	NRRV	VBLn1V	VRI n2	SBL	
Capacity (veh/h)		INDI	- INDIX	211	843	1382	
HCM Lane V/C Ratio		-		0.067			
HCM Control Delay (s)			_		9.4	7.6	
HCM Lane LOS		_	_	В	Α.4	Α.	
HCM 95th %tile Q(veh)		_	_	0.2	0.1	0	
Sivi ootii 70tiio Q(Voii)				0.2	J. 1	- 0	

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Intersection						
Int Delay, s/veh	0.2					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	WDL	אטא		NDK	ODL	
Traffic Vol, veh/h	<b>"</b> "	0	<b>1</b> 79	10	0	<b>र्स</b> 181
Future Vol, veh/h	7	0	179	10	0	181
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop -	None			riee -	None
Storage Length	0	None -	-	NOHE -	-	NONE -
Veh in Median Storage	-		0			0
	e, # 0 0	-	0	-	-	0
Grade, %		- 02		- 02	- 02	
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	8	0	195	11	0	197
Major/Minor I	Minor1	N	Major1		Major2	
Conflicting Flow All	398	201	0	0	206	0
Stage 1	201	-	_	_	-	_
Stage 2	197	_	_	_	_	_
Critical Hdwy	6.42	6.22	_	_	4.12	_
Critical Hdwy Stg 1	5.42	-	_	_	7.12	_
Critical Hdwy Stg 1	5.42	_			_	
Follow-up Hdwy		3.318		_		
Pot Cap-1 Maneuver	607	840	_	_	1365	
Stage 1	833	- 040			1000	<u>-</u>
Stage 2	836	-	_	-	-	
	030	-	-	-	-	-
Platoon blocked, %	607	040	-	-	1205	-
Mov Cap-1 Maneuver	607	840	-	-	1365	-
Mov Cap-2 Maneuver	607	-	-	-	-	-
Stage 1	833	-	-	-	-	-
Stage 2	836	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	11		0		0	
HCM LOS	В				v	
	J					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	001	1365	-
HCM Lane V/C Ratio		-	-	0.013	-	-
HCM Control Delay (s)		-	-		0	-
HCM Lane LOS		-	-	В	Α	-
HCM 95th %tile Q(veh)		-	-	0	0	-

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Intersection												
Int Delay, s/veh	0.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	0	2	0	13	1	2	0	222	14	2	232	1
Future Vol, veh/h	0	2	0	13	1	2	0	222	14	2	232	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	_	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	0	50	0	9	100	0	0	6	8	0	8	0
Mvmt Flow	0	2	0	14	1	2	0	244	15	2	255	1
Major/Minor N	/linor2			Minor1			Major1		N	//ajor2		
Conflicting Flow All	513	519	256	513	512	252	256	0	0	259	0	0
Stage 1	260	260	-	252	252	-	-	-	-	-	-	-
Stage 2	253	259	_	261	260	_	<u>-</u>	<u>-</u>	_	_	_	<u>-</u>
Critical Hdwy	7.1	7	6.2	7.19	7.5	6.2	4.1	_	_	4.1	_	_
Critical Hdwy Stg 1	6.1	6	- 0.2	6.19	6.5	- 0.2	-	_	_		_	_
Critical Hdwy Stg 2	6.1	6	_	6.19	6.5	_	_	_	_	_	_	_
Follow-up Hdwy	3.5	4.45		3.581	4.9	3.3	2.2	_	_	2.2	_	_
Pot Cap-1 Maneuver	475	400	788	461	351	792	1321	-	_	1317	_	_
Stage 1	749	613	-	737	551		-	_	_	-	_	_
Stage 2	756	614	-	729	546	-	-	-	-	-	-	-
Platoon blocked, %								_	_		-	-
Mov Cap-1 Maneuver	472	399	788	458	350	792	1321	-	-	1317	_	_
Mov Cap-2 Maneuver	472	399	-	458	350	-	-	-	_	-	-	-
Stage 1	749	612	-	737	551	-	-	-	_	-	-	-
Stage 2	752	614	-	725	545	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	14.1			12.9			0			0.1		
HCM LOS	В			В								
Minor Lane/Major Mvmt	t	NBL	NBT	NBR I	EBLn1V	VBLn1	SBL	SBT	SBR			
Capacity (veh/h)		1321	-	-	399	474	1317	-				
HCM Lane V/C Ratio		-	-	-		0.037		-	-			
HCM Control Delay (s)		0	-	-	14.1	12.9	7.7	0	-			
HCM Lane LOS		A	-	-	В	В	Α	A	-			
HCM 95th %tile Q(veh)		0	-	-	0	0.1	0	-	-			

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Intersection												
Int Delay, s/veh	5.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4	7	ች	î,			सी	7		4	
Traffic Vol, veh/h	8	443	89	155	430	2	65	1	154	0	0	0
Future Vol, veh/h	8	443	89	155	430	2	65	1	154	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	90	170	-	-	-	-	125	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97
Heavy Vehicles, %	43	5	5	9	13	0	5	0	6	0	0	0
Mvmt Flow	8	457	92	160	443	2	67	1	159	0	0	0
Major/Minor N	/lajor1			Major2			Minor1		<u> </u>	/linor2		
Conflicting Flow All	445	0	0	549	0	0	1237	1238	457	1363	1329	444
Stage 1	-	-	-	-	-	-	473	473	-	764	764	-
Stage 2	-	-	-	-	-	-	764	765	-	599	565	-
Critical Hdwy	4.53	-	-	4.19	-	-	7.15	6.5	6.26	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.15	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.15	5.5	-	6.1	5.5	-
. ,	2.587	-	-	2.281	-	-	3.545	4	3.354	3.5	4	3.3
Pot Cap-1 Maneuver	929	-	-	986	-	-	151	177	595	126	156	618
Stage 1	-	-	-	-	-	-	566	562	-	399	416	-
Stage 2	-	-	-	-	-	-	392	415	-	492	511	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	929	-	-	986	-	-	131	146	595	80	129	618
Mov Cap-2 Maneuver	-	-	-	-	-	-	131	146	-	80	129	-
Stage 1	-	-	-	-	-	-	559	555	-	394	349	-
Stage 2	-	-	-	-	-	-	328	348	-	355	504	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.1			2.5			26.9			0		
HCM LOS							D			Α		
Minor Lane/Major Mvmt		NBLn11	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1		
Capacity (veh/h)		131	595	929			986	-	-	-		
HCM Lane V/C Ratio			0.267		_	_	0.162	_	_	_		
HCM Control Delay (s)		58.9	13.2	8.9	0	_	9.4	_	_	0		
HCM Lane LOS		F	В	A	A	-	A	_	_	A		
HCM 95th %tile Q(veh)		2.5	1.1	0	-	-	0.6	-	-	-		

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Intersection												
Int Delay, s/veh	1.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	21	551	24	16	530	9	15	0	13	6	5	22
Future Vol, veh/h	21	551	24	16	530	9	15	0	13	6	5	22
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	5	5	0	0	6	13	0	0	0	0	0	4
Mvmt Flow	23	605	26	18	582	10	16	0	14	7	5	24
Major/Minor I	Major1		N	Major2		N	Minor1		N	/linor2		
		^			0			1202			1200	E07
Conflicting Flow All	592	0	0	631	0	0	1302	1292	618	1294	1300	587
Stage 1	-	-	-	-	-	-	664	664	-	623	623	-
Stage 2	1.45	-	-	1.1	-	-	638	628	-	671	677	- 6.04
Critical Hdwy	4.15	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.24
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	2 245	-	-	-	-	-	6.1	5.5	-	6.1	5.5	2 226
Follow-up Hdwy	2.245	-	-	2.2	-	-	3.5	4	3.3	3.5		3.336
Pot Cap-1 Maneuver	969	-	-	961	-	-	139	165	493	141	163	506
Stage 1	-	-	-	-	-	-	453	461	-	477	481	-
Stage 2	-	-	-	-	-	-	468	479	-	449	455	-
Platoon blocked, %	000	-	-	004	-	-	400	454	400	400	450	F00
Mov Cap-1 Maneuver	969	-	-	961	-	-	122	154	493	130	153	506
Mov Cap-2 Maneuver	-	-	-	-	-	-	122	154	-	130	153	-
Stage 1	-	-	-	-	-	-	436	444	-	459	468	-
Stage 2	-	-	-	-	-	-	428	466	-	420	438	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.3			0.3			27.9			20.4		
HCM LOS				- 0.3			D			C		
Minor Long/Maior M		NDL 4	EDI	EDT	EDD	WDI	WDT	WED	ODL 4			
Minor Lane/Major Mvm	it l	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :				
Capacity (veh/h)		188	969	-	-	961	-	-	270			
HCM Lane V/C Ratio		0.164	0.024	-	-	0.018	-		0.134			
HCM Control Delay (s)		27.9	8.8	0	-	8.8	0	-				
HCM Lane LOS		D	Α	Α	-	Α	Α	-	С			
HCM 95th %tile Q(veh)		0.6	0.1	-	-	0.1	-	-	0.5			

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Intersection												
Int Delay, s/veh	1.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			स	7		4	
Traffic Vol, veh/h	36	491	48	27	509	14	3	0	1	6	0	43
Future Vol, veh/h	36	491	48	27	509	14	3	0	1	6	0	43
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	90	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	10	7	2	4	13	17	33	0	0	20	0	11
Mvmt Flow	38	522	51	29	541	15	3	0	1	6	0	46
Major/Minor M	lajor1			Major2		I	Minor1		<u> </u>	Minor2		
Conflicting Flow All	556	0	0	573	0	0	1254	1238	548	1231	1256	549
Stage 1	-	-	-	-	-	-	624	624	-	607	607	-
Stage 2	-	-	-	-	-	-	630	614	-	624	649	-
Critical Hdwy	4.2	-	-	4.14	-	-	7.43	6.5	6.2	7.3	6.5	6.31
Critical Hdwy Stg 1	-	-	-	-	-	-	6.43	5.5	-	6.3	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.43	5.5	-	6.3	5.5	-
Follow-up Hdwy	2.29	-	-	2.236	-	-	3.797	4	3.3	3.68	4	3.399
Pot Cap-1 Maneuver	976	-	-	990	-	-	128	177	540	142	173	518
Stage 1	-	-	-	-	-	-	425	481	-	454	489	-
Stage 2	-	-	-	-	-	-	421	486	-	444	469	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	976	-	-	990	-	-	108	159	540	131	156	518
Mov Cap-2 Maneuver	-	-	-	-	-	-	108	159	-	131	156	-
Stage 1	-	-	-	-	-	-	400	453	-	428	468	-
Stage 2	-	-	-	-	-	-	367	465	-	417	442	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.6			0.4			32.4			16		
HCM LOS							D			С		
Minor Lane/Major Mvmt	1	NBLn1 I	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR S	SBL <sub>n1</sub>		
Capacity (veh/h)		108	540	976	-	-	990	-	-	380		
HCM Lane V/C Ratio		0.03	0.002	0.039	-	-	0.029	-	-	0.137		
HCM Control Delay (s)		39.3	11.7	8.8	0	-	8.7	0	-	16		
HCM Lane LOS		Е	В	Α	Α	-	Α	Α	-	С		
HCM 95th %tile Q(veh)		0.1	0	0.1	-	-	0.1	-	-	0.5		

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Intersection						
Int Delay, s/veh	0.6					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ĵ.			4	W	
Traffic Vol, veh/h	481	17	1	527	26	2
Future Vol. veh/h	481	17	1	527	26	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	_	-	-	-	0	-
Veh in Median Storag	e.# 0	-	-	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	8	0	0	13	9	0
Mymt Flow	496	18	1	543	27	2
WWITHER	730	10		070	LI	
Major/Minor	Major1	N	Major2		Minor1	
Conflicting Flow All	0	0	514	0	1050	505
Stage 1	-	-	-	-	505	-
Stage 2	-	-	-	-	545	-
Critical Hdwy	-	-	4.1	-	6.49	6.2
Critical Hdwy Stg 1	-	-	-	-	5.49	-
Critical Hdwy Stg 2	-	-	-	-	5.49	-
Follow-up Hdwy	-	-	2.2	-	3.581	3.3
Pot Cap-1 Maneuver	-	-	1062	-	244	571
Stage 1	-	-	-	-	592	-
Stage 2	-	_	_	-	567	-
Platoon blocked, %	_	_		-		
Mov Cap-1 Maneuver	_	_	1062	_	244	571
Mov Cap-2 Maneuver		_	-	_	244	-
Stage 1	_	_	_	-	592	_
Stage 2	_	_	_	_	566	_
Olage 2	_	_	_	_	300	_
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		21	
HCM LOS					С	
Minor Lane/Major Mvr	nt N	NBLn1	EBT	EBR	WBL	WBT
	nt I		LDT	LDN		VVDT
Capacity (veh/h)		254	-	-	1062	-
HCM Cantrol Dalay (	\	0.114	-	-	0.001	-
HCM Control Delay (s	)	21	-	-	8.4	0
HCM Lane LOS	.\	C	-	-	A	Α
HCM 95th %tile Q(veh	1)	0.4	-	-	0	-

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Intersection Int Delay, s/veh  Movement  Lane Configurations Traffic Vol, veh/h Future Vol, veh/h Conflicting Peds, #/hr Sign Control RT Channelized Storage Length Veh in Median Storage	0.2 EBL	EBT	WBT	WDD		
Movement Lane Configurations Traffic Vol, veh/h Future Vol, veh/h Conflicting Peds, #/hr Sign Control RT Channelized Storage Length	7		WBT	MDD		
Lane Configurations Traffic Vol, veh/h Future Vol, veh/h Conflicting Peds, #/hr Sign Control RT Channelized Storage Length	7		VVDI	WPD	SBL	SBR
Traffic Vol, veh/h Future Vol, veh/h Conflicting Peds, #/hr Sign Control RT Channelized Storage Length		- 41	•	WBR		אמט
Future Vol, veh/h Conflicting Peds, #/hr Sign Control RT Channelized Storage Length			<b>^}</b>	4	**	٥
Conflicting Peds, #/hr Sign Control RT Channelized Storage Length		467	517	1	0	9
Sign Control RT Channelized Storage Length	7	467	517	1	0	9
RT Channelized Storage Length		0	0	0	0	0
Storage Length	Free	Free	Free	Free	Stop	Stop
	-		-	None	-	None
Veh in Median Storac	-	-	-	-	0	-
	je,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	17	8	13	0	0	12
Mvmt Flow	7	486	539	1	0	9
Major/Minor	Major1		Major2	N	Minor2	
	Major1					5.40
Conflicting Flow All	540	0	-		1040	540
Stage 1	-	-	-	-	540	-
Stage 2	-	-	-	-	500	<u>-</u>
Critical Hdwy	4.27	-	-	-	6.4	6.32
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.353	-	-	-	3.5	3.408
Pot Cap-1 Maneuver	957	-	-	-	257	523
Stage 1	-	-	-	-	588	-
Stage 2	-	-	-	-	613	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuve	957	-	-	-	254	523
Mov Cap-2 Maneuve		_	-	_	254	-
Stage 1	_	_	-	_	582	_
Stage 2	_	_	_	_	613	_
Olago Z					010	
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		12	
HCM LOS					В	
NA:	4	EDI	EDT	WDT	WDD	2DL 4
Minor Lane/Major Mv	mt	EBL	EBT	WBT	WBR S	
Capacity (veh/h)		957	-	-	-	523
HCM Lane V/C Ratio		0.008	-	-	-	0.018
	s)	8.8	0	-	-	12
HCM Control Delay (s			٨	-		В
HCM Control Delay (s HCM Lane LOS HCM 95th %tile Q(ve		A 0	Α		-	0.1

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Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	EDL			WDK		SBK
Lane Configurations Traffic Vol, veh/h	16	<b>र्स</b> 458	<b>1</b> → 498	2	<b>\Y</b>	0
Future Vol, veh/h	16	458	498	2	1	8
	0	450	490	0	0	0
Conflicting Peds, #/hr	-	Free	Free	Free		
Sign Control RT Channelized	Free				Stop	Stop None
	- -	None -	-	None -	- 0	None -
Storage Length		0	0			
Veh in Median Storage,		0		-	0	-
Grade, %	-		0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	29	6	12	50	0	14
Mvmt Flow	17	498	541	2	1	9
Major/Minor M	/lajor1	N	Major2	N	Minor2	
Conflicting Flow All	543	0		0	1074	542
Stage 1	_	_	-	_	542	
Stage 2	_	_	-	_	532	_
Critical Hdwy	4.39	_	_	_	6.4	6.34
Critical Hdwy Stg 1	-	_	_	_	5.4	-
Critical Hdwy Stg 2	_	_	_	_	5.4	_
	2.461	_	_	_		3.426
Pot Cap-1 Maneuver	903	_	_	_	246	518
Stage 1	-	_	_	_	587	-
Stage 2	_	_	_	_	593	_
Platoon blocked, %		_	_	_	000	
Mov Cap-1 Maneuver	903	_	_	_	240	518
Mov Cap-1 Maneuver	-	_	_	<u>-</u>	240	-
Stage 1	-	-	-		572	
	-	-	-	-	593	-
Stage 2	-	-	-	-	593	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.3		0		13	
HCM LOS					В	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	CDI n1
		903	EDI			
			-	-	-	
Capacity (veh/h)						
Capacity (veh/h) HCM Lane V/C Ratio		0.019	-	-		0.021
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		0.019 9.1	0	-	-	13
Capacity (veh/h) HCM Lane V/C Ratio		0.019				

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Intersection						
Int Delay, s/veh	1.1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	WDL	אטוע	1\D1	NOIN	ODL	<u>351</u>
Traffic Vol, veh/h	0	2	15	3	2	<b>~</b>
Future Vol, veh/h	0	2	15	3	2	7
Conflicting Peds, #/hr	0	0	0	0	0	0
	Stop	Stop	Free	Free	Free	Free
Sign Control RT Channelized	Slop -	None		None		None
			-	ivone	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	- 70	0	-	-	0
Peak Hour Factor	72	72	72	72	72	72
Heavy Vehicles, %	0	0	23	33	0	0
Mvmt Flow	0	3	21	4	3	10
Major/Minor N	/linor1	N	Major1	N	Major2	
Conflicting Flow All	39	23	0	0	25	0
Stage 1	23	-	-	-	-	-
Stage 2	16	_	_	_	_	_
Critical Hdwy	6.4	6.2	_	-	4.1	<u>-</u>
Critical Hdwy Stg 1	5.4					
	5.4	-	-	-	-	-
Critical Hdwy Stg 2		-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	978	1060	-	-	1603	-
Stage 1	1005	-	-	-	-	-
Stage 2	1012	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	976	1060	-	-	1603	-
Mov Cap-2 Maneuver	976	-	-	-	-	-
Stage 1	1005	-	-	-	-	-
Stage 2	1010	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.4		0		1.6	
HCM LOS			U		1.0	
HCIVI LOS	Α					
Minor Lane/Major Mvm	t	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	1060	1603	-
HCM Lane V/C Ratio		-	-	0.003	0.002	-
HCM Control Delay (s)		-	-	8.4	7.2	0
HCM Lane LOS		_	-	Α	Α	A
HCM 95th %tile Q(veh)		_	-	0	0	-

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Intersection						
Int Delay, s/veh	2.3					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u>₽</u>	LDIX	VVDL	₩ <u>₩</u>	NDL Y	אטא
Traffic Vol, veh/h	27	1	3	<b>원</b> 21	<b>'T</b> '	14
Future Vol, veh/h	27	1	3	21	1	14
	0	0	0	0	0	0
Conflicting Peds, #/hr	Free	Free		Free		
Sign Control RT Channelized		None	Free	None	Stop	Stop None
	-		-	None -	-	None
Storage Length	<u> </u>	-	-		0	-
Veh in Median Storage, #		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	69	69	69	69	69	69
Heavy Vehicles, %	22	0	33	11	0	33
Mvmt Flow	39	1	4	30	1	20
Major/Minor Ma	ajor1	N	Major2	N	/linor1	
Conflicting Flow All	0	0	40	0	78	40
Stage 1	-	-	-	-	40	-
Stage 2	_	_	_	_	38	_
Critical Hdwy	_		4.43	_	6.4	6.53
Critical Hdwy Stg 1	_	-	4.43	_	5.4	0.55
		-			5.4	-
Critical Hdwy Stg 2	-	-	2.497	-		3.597
Follow-up Hdwy	-	-		-		
Pot Cap-1 Maneuver	-	-	1392	-	930	950
Stage 1	-	-	-	-	988	-
Stage 2	-	-	-	-	990	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1392	-	927	950
Mov Cap-2 Maneuver	-	-	-	-	927	-
Stage 1	-	-	-	-	988	-
Stage 2	-	-	-	-	987	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.9		8.9	
<b>3</b> '	U		0.9			
HCM LOS					Α	
Minor Lane/Major Mvmt	1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		948	-	-	1392	-
HCM Lane V/C Ratio		0.023	-	_	0.003	-
HCM Control Delay (s)		8.9	-	_	7.6	0
HCM Lane LOS		Α	-	-	Α	A
HCM 95th %tile Q(veh)		0.1	_	-	0	-
		J. 1				

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Intersection						
Int Delay, s/veh	0					
		EDT	WDT	WDD	CDI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	^	र्चु	<b>₽</b>	0	À	^
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	_ 0	0	_ 0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	25	25	25	25	25	25
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	0	0	0	0	0
Major/Minor N	1ajor1	N	Major2	N	Minor2	
	4	0	<u>viajui 2</u> -	0		4
Conflicting Flow All					4	
Stage 1	-	-	-	-		-
Stage 2	4.4	-	-	-	0	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1631	-	-	-	1023	1085
Stage 1	-	-	-	-	1024	-
Stage 2	-	-	-	-	-	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1631	-	-	-	1023	1085
Mov Cap-2 Maneuver	-	-	-	-	1023	-
Stage 1	_	_	_	-	1024	-
Stage 2	_	_	_	_	-	_
			14/5		0.5	
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS					Α	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1631		-	-	-
		-	_	_	_	_
HCM Lane V/C Ratio					_	0
HCM Control Delay (s)		Λ	_			
HCM Control Delay (s)		0	-	-		
		0 A 0	-	-	- -	A -

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Intersection						
Int Delay, s/veh	0					
		WDD	NDT	NDD	CDI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		ĵ,			4
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	,# 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	25	25	25	25	25	25
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	0	0	0	0	0
N.A. '. /N.A.'						
	Minor1		Major1		/lajor2	
Conflicting Flow All	4	0	0	0	0	0
Stage 1	0	-	-	-	-	-
Stage 2	4	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	1023	-	_	-	_	-
Stage 1	_	_	-	_	-	_
Stage 2	1024	_	_	_	_	_
Platoon blocked, %	1021		_	_		_
Mov Cap-1 Maneuver	1023	_	_	_	_	_
Mov Cap-2 Maneuver	1023	_	_	_	<u>-</u>	_
	1023	-	-	-		_
Stage 1	1004	-	-	-		-
Stage 2	1024	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	A					
	, ,					
Minor Lane/Major Mvm	t	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	-	-	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		-	-	0	0	-
HCM Lane LOS		-	-	Α	Α	-
HCM 95th %tile Q(veh)		-	-	-	-	-

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Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	4	₩ <u>₽</u>	WOIN	₩.	ODIN
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	Stop -	None
Storage Length	-	NOHE -	-	None -	0	None
Veh in Median Storage, #	- #	0	0			-
	# -		0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	25	25	25	25	25	25
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	0	0	0	0	0
Major/Minor Ma	ajor1	N	Major2	N	/linor2	
Conflicting Flow All	4	0	-	0	4	4
Stage 1	_	-	_	-	4	-
Stage 2	_	_	_	_	0	_
Critical Hdwy	4.1	_	_	_	6.4	6.2
Critical Hdwy Stg 1	-	_	_	_	5.4	- 0.2
Critical Hdwy Stg 2	_	_	_	_	5.4	_
Follow-up Hdwy	2.2	_	_	_	3.5	3.3
	1631	_		_	1023	1085
Stage 1	-	_	_	_	1023	1005
Stage 2	_		_		1024	_
Platoon blocked, %	-	_		-	-	-
	1631		-	-	1023	1085
		-		-	1023	1000
Mov Cap-2 Maneuver	-	-	-	-	1023	
Stage 1	-	-	-	-		-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS			•		A	
		EDI	EDT	MOT	MDD	2DI 4
NA: 1 /NA: NA 1		EBL	EBT	WBT	WBR S	SBLn1
Minor Lane/Major Mvmt						
Capacity (veh/h)		1631	-	-	-	-
Capacity (veh/h) HCM Lane V/C Ratio		1631 -	-	-	-	-
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		1631 - 0	- - -	- - -	-	0
Capacity (veh/h) HCM Lane V/C Ratio		1631 -				

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Intersection						
Int Delay, s/veh	2.2					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	WBL	וטא	Tell	אטוז	ODL	<u>उठा</u>
Traffic Vol, veh/h	- <b>'T'</b> 1	57	179	0	66	181
Future Vol, veh/h	1	57	179	0	66	181
· · · · · · · · · · · · · · · · · · ·	0	0	0	0	00	0
Conflicting Peds, #/hr Sign Control	Stop		Free	Free	Free	Free
RT Channelized	Slop -	Stop		None		None
			-	ivone	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	62	195	0	72	197
Major/Minor	Minor1	N	Major1	ı	Major2	
Conflicting Flow All	536	195	0	0	195	0
Stage 1	195	195	-	-	195	-
Stage 2	341	_	_	_	_	_
	6.42	6.22	_		4.12	_
Critical Hdwy Critical Hdwy Stg 1	5.42	0.22		-	4.12	
			-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	- 0.40	-
Follow-up Hdwy	3.518		-	-	2.218	-
Pot Cap-1 Maneuver	505	846	-	-	1378	-
Stage 1	838	-	-	-	-	-
Stage 2	720	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	475	846	-	-	1378	-
Mov Cap-2 Maneuver	475	-	-	-	-	-
Stage 1	838	-	-	-	-	-
Stage 2	678	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	9.7		0		2.1	
HCM LOS	9.7 A		U		۷.۱	
TIGIVI LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	835	1378	-
HCM Lane V/C Ratio		-	-	0.076	0.052	-
HCM Control Delay (s)		-	-	9.7	7.8	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh	)	-	-	0.2	0.2	-
TOW JOHN JOHN Q VEN	1			V.Z	0.2	

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# ▼ Site: 101 [Powell Butte-126 Existing PM (Site Folder: PM Peak)]

New Site

Site Category: (None)

Roundabout

Veh	icle Mo	vemen	t Perfori	nance										
Mov ID	Turn	VOLU	PUT JMES	DEM. FLO	WS	Deg. Satn		Level of Service	QUI	ACK OF EUE	Prop. Que	Effective Stop	Aver. No.	Aver. Speed
		[ Total veh/h	HV ] %	[ Total veh/h	HV ] %	v/c	sec		[ Veh. veh	Dist ] ft		Rate	Cycles	mph
Sout	h: Powe	ell Butte l	Hwy											
3	L2	70	15.0	76	15.0	0.588	18.0	LOS C	4.0	105.2	0.79	0.98	1.36	28.7
8	T1	1	0.0	1	0.0	0.588	17.1	LOS C	4.0	105.2	0.79	0.98	1.36	29.0
18	R2	245	5.0	266	5.0	0.588	17.4	LOS C	4.0	105.2	0.79	0.98	1.36	28.2
Appı	oach	316	7.2	343	7.2	0.588	17.5	LOS C	4.0	105.2	0.79	0.98	1.36	28.3
East	: OR126	6												
1	L2	276	5.0	300	5.0	0.835	20.2	LOS C	11.5	301.6	0.75	0.43	0.75	27.9
6	T1	632	6.0	687	6.0	0.835	20.3	LOS C	11.5	301.6	0.75	0.43	0.75	27.9
16	R2	2	50.0	2	50.0	0.835	21.5	LOS C	11.5	301.6	0.75	0.43	0.75	26.6
Аррі	oach	910	5.8	989	5.8	0.835	20.3	LOS C	11.5	301.6	0.75	0.43	0.75	27.9
Nort	h: Powe	II Butte I	Hwy											
7	L2	1	0.0	1	0.0	0.012	8.4	LOSA	0.0	1.1	0.69	0.61	0.69	33.0
4	T1	1	0.0	1	0.0	0.012	8.4	LOSA	0.0	1.1	0.69	0.61	0.69	32.9
14	R2	3	0.0	3	0.0	0.012	8.4	LOSA	0.0	1.1	0.69	0.61	0.69	32.0
Аррі	oach	5	0.0	5	0.0	0.012	8.4	LOSA	0.0	1.1	0.69	0.61	0.69	32.4
Wes	t: OR12	6												
5	L2	5	0.0	5	0.0	0.893	30.1	LOS D	26.9	711.7	1.00	1.63	2.60	25.4
2	T1	667	6.0	725	6.0	0.893	30.3	LOS D	26.9	711.7	1.00	1.63	2.60	25.2
12	R2	94	15.0	102	15.0	0.893	30.7	LOS D	26.9	711.7	1.00	1.63	2.60	24.6
Аррі	oach	766	7.1	833	7.1	0.893	30.4	LOS D	26.9	711.7	1.00	1.63	2.60	25.2
All V	ehicles	1997	6.5	2171	6.5	0.893	23.7	LOS C	26.9	711.7	0.85	0.97	1.56	26.9

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula.

Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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▼ Site: 101 [Powell Butte-126 Existing Sat (Site Folder: SAT)

Peak)]

New Site

Site Category: (None)

Roundabout

Vehi	cle Mo	vemen	t Perfori	mance										
Mov	Turn		PUT	DEM.		Deg.		Level of		ACK OF	Prop.	Effective	Aver.	Aver.
ID		VOLU Total	JMES HV 1	FLO [ Total	ws HV1	Satn	Delay	Service	Veh.	EUE Dist ]	Que	Stop Rate	No. Cycles	Speed
		veh/h	%	veh/h	%	v/c	sec		veh	ft			-,	mph
Sout	h: Powe	ell Butte l	Hwy											
3	L2	65	5.0	71	5.0	0.311	8.3	LOSA	1.4	36.0	0.61	0.59	0.61	32.6
8	T1	1	0.0	1	0.0	0.311	8.1	LOSA	1.4	36.0	0.61	0.59	0.61	32.7
18	R2	154	6.0	167	6.0	0.311	8.3	LOSA	1.4	36.0	0.61	0.59	0.61	31.6
Appr	oach	220	5.7	239	5.7	0.311	8.3	LOSA	1.4	36.0	0.61	0.59	0.61	31.9
East	OR126	6												
1	L2	155	9.0	168	9.0	0.566	10.0	LOS B	3.9	106.7	0.38	0.20	0.38	31.9
6	T1	430	13.0	467	13.0	0.566	10.1	LOS B	3.9	106.7	0.38	0.20	0.38	31.8
16	R2	2	0.0	2	0.0	0.566	9.8	LOSA	3.9	106.7	0.38	0.20	0.38	31.2
Appr	oach	587	11.9	638	11.9	0.566	10.1	LOS B	3.9	106.7	0.38	0.20	0.38	31.8
North	n: Powe	II Butte I	Hwy											
7	L2	1	0.0	1	0.0	0.005	5.9	LOSA	0.0	0.5	0.60	0.44	0.60	33.9
4	T1	1	0.0	1	0.0	0.005	5.9	LOSA	0.0	0.5	0.60	0.44	0.60	33.8
14	R2	1	0.0	1	0.0	0.005	5.9	LOSA	0.0	0.5	0.60	0.44	0.60	32.9
Appr	oach	3	0.0	3	0.0	0.005	5.9	LOSA	0.0	0.5	0.60	0.44	0.60	33.5
West	:: OR12	6												
5	L2	8	43.0	9	43.0	0.543	11.1	LOS B	3.7	95.3	0.54	0.38	0.54	31.6
2	T1	443	5.0	482	5.0	0.543	9.9	LOSA	3.7	95.3	0.54	0.38	0.54	32.7
12	R2	89	5.0	97	5.0	0.543	9.9	LOS A	3.7	95.3	0.54	0.38	0.54	31.8
Appr	oach	540	5.6	587	5.6	0.543	9.9	LOSA	3.7	95.3	0.54	0.38	0.54	32.5
All V	ehicles	1350	8.3	1467	8.3	0.566	9.7	LOSA	3.9	106.7	0.48	0.34	0.48	32.1

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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▼ Site: 101 [Alfalfa-Powell Butte Existing PM (Site Folder: PM)

Peak)]

Alfalfa-Powell Butte Existing PM

Site Category: (None)

Roundabout

Vehi	cle Mo	ovement	Perform	mance										
Mov ID	Turn	INP VOLU [ Total veh/h		DEM FLO [ Total veh/h		Deg. Satn v/c	Aver. Delay sec	Level of Service		ACK OF EUE Dist ] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South	nEast: /	Alfalfa Rd	l											
21 23 Appro	L2 R2	52 10 62	20.0 22.0 20.3	55 11 65	20.0 22.0 20.3	0.066 0.066 0.066	5.6 10.6 6.4	LOS A LOS B	0.3 0.3 0.3	2.7 2.7 2.7	0.44 0.44 0.44	0.57 0.57 0.57	0.44 0.44 0.44	53.0 54.0 53.2
North	East: F	Powell Bu	itte Hwy											
25	L2 T1	19 275	19.0 3.0	20 289	19.0 3.0	0.210	4.2	LOSA	1.2	8.3	0.15 0.15	0.40	0.15 0.15	54.2 56.1
Appro		294 Powell B	4.0 utte Hwy	309	4.0	0.210	4.3	LOSA	1.2	8.3	0.15	0.40	0.15	56.0
31 32	T1 R2	304 34	5.0 10.0	320 36	5.0 10.0	0.223 0.223	4.2 8.9	LOS A LOS A	1.4 1.4	10.4 10.4	0.09 0.09	0.42 0.42	0.09 0.09	56.0 55.7
Appro		338	5.5	356	5.5	0.223	4.7	LOSA	1.4	10.4	0.09	0.42	0.09	56.0
All Ve	hicles	694	6.2	731	6.2	0.223	4.7	LOSA	1.4	10.4	0.14	0.43	0.14	55.7

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

Delay Model: SIDRA Standard (Geometric Delay is included).

Queue Model: SIDRA Standard.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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**▼** Site: 101 [Alfalfa-Powell Butte Existing Sat (Site Folder: SAT

Peak)]

Alfalfa-Powell Butte Existing PM

Site Category: (None)

Roundabout

Vehi	cle Mo	ovement	Perfor	mance										
Mov ID	Turn	INP VOLU [ Total veh/h		DEM/ FLO [ Total veh/h		Deg. Satn v/c		Level of Service	95% BA QUE [ Veh. veh	ACK OF EUE Dist ] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South	nEast: /	Alfalfa Rd												
21 23	L2 R2	39 16	9.0 14.0	41 17	9.0	0.051 0.051	4.8 9.8	LOS A	0.2	1.9	0.34	0.54	0.34	53.3 54.2
Appro		55 Powell Bu	10.5 tte Hwy	58	10.5	0.051	6.3	LOSA	0.2	1.9	0.34	0.54	0.34	53.5
24 25	L2 T1	9 171	0.0 7.0	9 180	0.0 7.0	0.132 0.132	4.0 4.3	LOS A LOS A	0.7 0.7	5.0 5.0	0.13 0.13	0.40 0.40	0.13 0.13	54.9 56.1
Appro	oach	180	6.7	189	6.7	0.132	4.3	LOSA	0.7	5.0	0.13	0.40	0.13	56.1
South	nWest:	Powell B	utte Hwy	,										
31	T1	162	4.0	171	4.0	0.132	4.2	LOSA	0.7	5.3	0.10	0.44	0.10	55.8
32	R2	29	4.0	31	4.0	0.132	8.8	LOSA	0.7	5.3	0.10	0.44	0.10	55.7
Appro	oach	191	4.0	201	4.0	0.132	4.9	LOSA	0.7	5.3	0.10	0.44	0.10	55.8
All Ve	hicles	426	6.0	448	6.0	0.132	4.8	LOSA	0.7	5.3	0.14	0.43	0.14	55.6

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

Delay Model: SIDRA Standard (Geometric Delay is included).

Queue Model: SIDRA Standard.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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▼ Site: 101 [TM Existing PM (Site Folder: PM Peak)]

New Site

Site Category: (None)

Roundabout

Vehi	cle Mo	vement	Perfor	mance		_								
Mov ID	Turn	INP VOLU [ Total veh/h		DEM/ FLO [ Total veh/h		Deg. Satn v/c		Level of Service		ACK OF EUE Dist ] ft	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed mph
South	h: Tom I	McCall R	d											
3	L2	102	7.0	112	7.0	0.970	75.1	LOS F	11.9	324.6	0.95	1.78	3.87	16.5
8	T1	8	14.0	9	14.0	0.970	75.7	LOS F	11.9	324.6	0.95	1.78	3.87	16.5
18	R2	200	14.0	220	14.0	0.970	75.7	LOS F	11.9	324.6	0.95	1.78	3.87	16.2
Appro	oach	310	11.7	341	11.7	0.970	75.5	LOS F	11.9	324.6	0.95	1.78	3.87	16.3
East:	OR126	3												
1	L2	52	24.0	57	24.0	0.535	10.1	LOS B	3.5	94.6	0.45	0.28	0.45	32.1
6	T1	427	7.0	469	7.0	0.535	9.6	LOSA	3.5	94.6	0.45	0.28	0.45	32.6
16	R2	58	13.0	64	13.0	0.535	9.7	LOSA	3.5	94.6	0.45	0.28	0.45	31.6
Appro	oach	537	9.3	590	9.3	0.535	9.6	LOSA	3.5	94.6	0.45	0.28	0.45	32.4
North	n: Tom N	/lcCall Ro	d											
7	L2	409	4.0	449	4.0	1.114	94.2	LOS F	44.2	1129.6	1.00	2.81	6.41	14.5
4	T1	17	13.0	19	13.0	1.114	94.7	LOS F	44.2	1129.6	1.00	2.81	6.41	14.5
14	R2	246	0.0	270	0.0	1.114	94.0	LOS F	44.2	1129.6	1.00	2.81	6.41	14.4
Appro	oach	672	2.8	738	2.8	1.114	94.1	LOS F	44.2	1129.6	1.00	2.81	6.41	14.5
West	:: OR12	6												
5	L2	3	33.0	3	33.0	1.111	90.2	LOS F	53.5	1406.6	1.00	2.93	6.11	15.1
2	T1	771	6.0	847	6.0	1.111	89.0	LOS F	53.5	1406.6	1.00	2.93	6.11	15.3
12	R2	3	67.0	3	67.0	1.111	91.7	LOS F	53.5	1406.6	1.00	2.93	6.11	14.8
Appro	oach	777	6.3	854	6.3	1.111	89.0	LOS F	53.5	1406.6	1.00	2.93	6.11	15.3
All Ve	ehicles	2296	6.7	2523	6.7	1.114	70.1	LOSF	53.5	1406.6	0.86	2.12	4.57	17.3

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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▼ Site: 101 [TM Existing Sat (Site Folder: SAT Peak)]

New Site

Site Category: (None)

Roundabout

Vehi	cle Mo	vemen	t Perfori	mance										
Mov ID	Turn		PUT JMES HV 1	DEM. FLO [ Total		Deg. Satn		Level of Service		ACK OF EUE Dist ]	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		veh/h	%	veh/h	%	v/c	sec		veh	ft		rtato	O y oloo	mph
Sout	h: Tom I	McCall F	₹d											
3	L2	10	33.0	11	33.0	0.108	7.8	LOSA	0.4	10.4	0.58	0.53	0.58	32.7
8	T1	2	0.0	2	0.0	0.108	6.2	LOSA	0.4	10.4	0.58	0.53	0.58	33.7
18	R2	48	17.0	53	17.0	0.108	7.0	LOSA	0.4	10.4	0.58	0.53	0.58	32.3
Appr	oach	60	19.1	66	19.1	0.108	7.2	LOSA	0.4	10.4	0.58	0.53	0.58	32.4
East	OR126	<b>i</b>												
1	L2	41	20.0	45	20.0	0.554	9.7	LOSA	3.9	107.1	0.20	0.07	0.20	32.3
6	T1	469	13.0	515	13.0	0.554	9.5	LOSA	3.9	107.1	0.20	0.07	0.20	32.6
16	R2	84	15.0	92	15.0	0.554	9.6	LOSA	3.9	107.1	0.20	0.07	0.20	31.6
Appr	oach	594	13.8	653	13.8	0.554	9.5	LOSA	3.9	107.1	0.20	0.07	0.20	32.4
North	n: Tom N	/lcCall R	Rd .											
7	L2	80	26.0	88	26.0	0.186	8.8	LOSA	0.6	18.3	0.60	0.60	0.60	30.7
4	T1	3	33.0	3	33.0	0.186	9.1	LOSA	0.6	18.3	0.60	0.60	0.60	30.8
14	R2	13	18.0	14	18.0	0.186	8.4	LOS A	0.6	18.3	0.60	0.60	0.60	30.2
Appr	oach	96	25.1	105	25.1	0.186	8.7	LOSA	0.6	18.3	0.60	0.60	0.60	30.6
West	:: OR12	3												
5	L2	10	0.0	11	0.0	0.451	8.0	LOSA	2.7	71.3	0.46	0.31	0.46	33.7
2	T1	435	6.0	478	6.0	0.451	8.2	LOSA	2.7	71.3	0.46	0.31	0.46	33.5
12	R2	6	0.0	7	0.0	0.451	8.0	LOSA	2.7	71.3	0.46	0.31	0.46	32.6
Appr	oach	451	5.8	496	5.8	0.451	8.2	LOSA	2.7	71.3	0.46	0.31	0.46	33.5
All Ve	ehicles	1201	11.9	1320	11.9	0.554	8.9	LOSA	3.9	107.1	0.35	0.22	0.35	32.6

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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# APPENDIX F – 2016 OR126 AT TOM MCCALL ROAD TRAFFIC ANALYSIS TRAFFIC CONTROL ALTERNATIVES EVALUATION

354 SW Upper Terrace Drive, Suite 101, Bend, Oregon 97702 P 541.312.8300 F 541.312.4585



# TECHNICAL MEMORANDUM **OR 126 at Tom McCall Road Traffic Analysis**

Traffic Control Alternatives Evaluation



Project #: 13823 July 11, 2016 Date:

Mike Darling, ODOT To: Scott Beaird, PE From:

This memorandum summarizes a comparison of operational, safety, and right-of-way impacts associated with traffic control alternatives for the OR 126/Tom McCall Road intersection in Prineville, Oregon. The alternatives were developed to address safety and operational needs identified in the OR 126 Corridor Facility Plan and City of Prineville Transportation System Plan (TSP). Roundabout and traffic signal intersection forms were evaluated, in addition to the existing stop-controlled scenario.

This memo is organized into the following sections.

BackgroundBackground	
Intersection Operational Analysis	
Alternative Design Concepts	
Alternative Design Evaluations	
Evaluation Summary	
Conclusion	

## BACKGROUND

The OR 126 Corridor Facility Plan, adopted in 2012, identified the need for increased capacity at the OR 126/Tom McCall Road intersection to accommodate 2030 forecast traffic volumes. The Facility Plan identified a signal or roundabout as viable options, but did not include a comparison of the options.

The Prineville TSP, adopted in 2013, identified the need for improvements at the intersection to provide "safe and effective long-term access to industrial lands" and support economic growth. The TSP cited safety concerns at the OR 126/Tom McCall Road intersection due to recent expansion of data centers and industrial uses near the airport, coupled with a high-speed, rural environment along the highway. The TSP recommended the realignment of Millican Road-Airport Way to Tom McCall Road and the construction of a signal or roundabout at the OR 126/Tom McCall Road intersection.

To maintain consistency with the recommendations of the OR 126 Corridor Facility Plan and the Prineville TSP, this study evaluated a roundabout and signal alternative at the OR 126/Tom McCall Road intersection and assumed realignment of Airport Way and Millican Road to Tom McCall Road.

# INTERSECTION OPERATIONAL ANALYSIS

All unsignalized level-of-service analyses were performed in accordance with the procedures stated in the 2010 version of the *Highway Capacity Manual (HCM)* and signalized analyses were performed in accordance with the 2000 version. The analyses reflect the peak 15-minute flow rate during the p.m. peak hours. Using the peak 15-minute flow rate ensures that this analysis is based on a reasonable worst-case scenario.

#### PERFORMANCE THRESHOLDS

ODOT uses volume-to-capacity (V/C) ratio targets to assess intersection operations. Table 6 of the *Oregon Highway Plan* (OHP) provides the peak hour mobility targets for all signalized and unsignalized intersections outside the Portland Metro area. The OHP target for OR 126, which is designated as an *Expressway*, is a V/C of 0.80.

The City's performance targets were also considered when determining the appropriate number of lanes for each alternative. The City of Prineville operational standards are summarized in Table 1.

Table 1 City of Prineville Intersection Operations Performance Standards

Traffic Control	Volume-to-Capacity Ratio Standard	Delay Standard (seconds)	95th Percentile Queuing Standard	
Two-Way Stop Control (TWSC)	≤1.0	≤50¹	Storage Capacity	
Signal	≤0.90	≤80 <sup>2</sup>	Storage Capacity	
Roundabout	≤0.85¹	N/A	N/A	

<sup>&</sup>lt;sup>1</sup> evaluated by lane group

Based on discussion with ODOT and City staff, a modified V/C target of 0.90 was developed to determine the number of lanes required for the roundabout alternative. This target was selected based on guidance in NCHRP Report 672, Roundabouts: An Informational Guide, Second Edition, which identifies a V/C of 0.90 as the approximate upper threshold for satisfactory operation. In addition, a target V/C of 0.90 has been used when planning for other roundabout projects on the State system within the region. Finally, the use of an alternative mobility target reduces the potential for a mulitlane roundabout. A single-lane roundabout, with the potential for future expansion, is preferable for the following reasons:

- A single-lane roundabout results in fewer potential conflict points than a multilane roundabout, which empirical evidence shows results in better safety performance.
- Given this would be the first roundabout in the City of Prineville and Crook County, driver understanding is likely to be higher for a single-lane roundabout than a multilane roundabout.
- The freight industry has expressed a general preference for single-lane roundabouts over multilane roundabouts when possible to minimize conflicts with non-commercial vehicles.

<sup>&</sup>lt;sup>2</sup> average for intersection

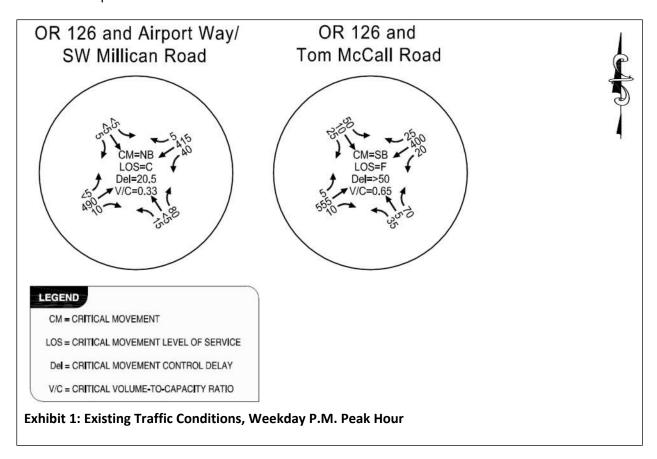
Based on these considerations, the following mobility targets were applied to each of the evaluated alternatives:

- Roundabout form: V/C = 0.90 (by approach)
- Signalized intersection form: V/C = 0.80 (overall intersection)

#### EXISTING TRAFFIC VOLUMES AND PEAK HOUR ANALYSIS RESULTS

The existing traffic conditions analysis is documented in Technical Memorandum #1 (3/16/15). Performance measures considered in the analysis include volume-to-capacity (V/C) ratio, delay, level of service, and 95<sup>th</sup>-percentile vehicle queue lengths.

Exhibit 1 summarizes the existing weekday p.m. peak hour volumes (4:15 to 5:15 p.m.) and existing conditions operations.

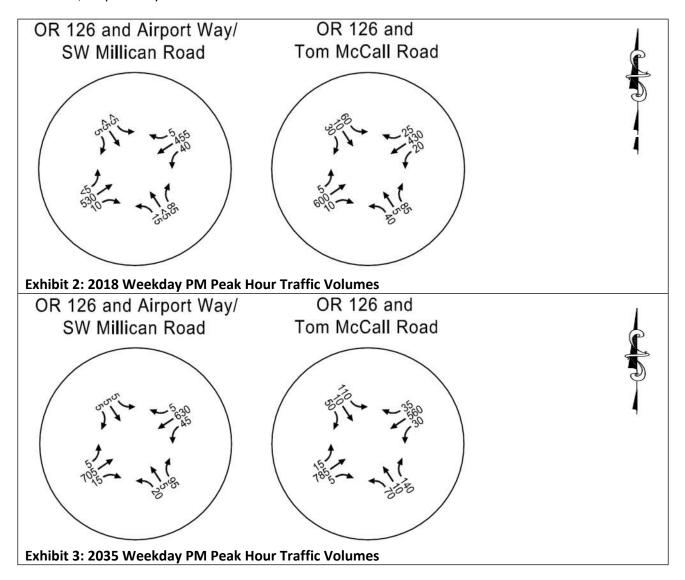


As shown in Exhibit 1, the OR 126/Tom McCall Road intersection is operating at LOS "F" during the weekday p.m. peak hour. Therefore, the intersection does not meet City of Prineville operational standards under existing weekday p.m. peak hour traffic conditions.

The Airport Way/SW Millican Road intersection operates acceptably under ODOT and City performance targets during the weekday p.m. peak hour.

#### FUTURE YEAR TRAFFIC VOLUMES AND PEAK HOUR ANALYSIS RESULTS

Forecast traffic volumes were developed for the study intersections based on the existing traffic counts and forecast volumes from the City of Prineville's travel demand model documented in the Prineville TSP. Opening year 2018 and design year 2035 traffic volumes are provided in Exhibit 2 and Exhibit 3, respectively.



Peak hour factors of 0.95 and 0.80 were applied to the 2035 forecasts on OR 126 and minor street approaches, respectively. These peak hour factors are based on guidance provided in the ODOT APM and take into account industrial employment characteristics reflected in existing peak hour factors.

The future conditions analysis identifies how the OR 126/Tom McCall Road intersection is forecast to operate in opening year 2018 and design year 2035. Two volume scenarios were evaluated for each build alternative:

- Scenario #1 (no Airport Way/Millican Road Reroute) assumes traffic from Airport Way and Millican Road access OR 126 directly at the existing stop-controlled intersection.
- Scenario #2 (Airport Way/Millican Road Reroute) assumes traffic from Airport Way and Millican Road reroute to a single intersection at Tom McCall Road. (Note: Under this scenario, the existing Airport Way/Millican Road connections to OR 126 may be retained in some form to facilitate specific turning movements and/or over-dimensional freight activity.)

Operational analysis of the OR 126/Tom McCall Road intersection was conducted for the following alternatives:

- No Build Stop-Controlled Alternative
- Signal Build Alternative
- Roundabout Build Alternative

The future year conditions analysis for each of the three alternatives is documented in Technical Memorandum #1 (3/16/15) and summarized below.

#### No-Build Alternative

The year 2018 and 2035 no-build traffic analysis identifies how the OR 126/Tom McCall Road intersection is forecast to operate if no improvements are made to the existing intersection. A summary of 2018 and 2035 no-build operations by approach is provided in Table 2.

Table 2 Future No-Build, Stop-Controlled Weekday PM Peak Hour Operations

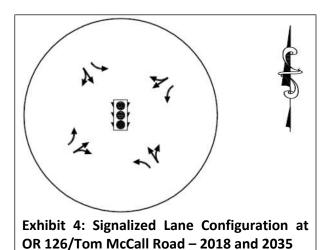
Tuble 2 Tutale No Build, Stop Controlled Weekday TWT Cak Hour Operations										
Evaluation Year	Stop-Controlled Approaches	LOS	V/C	Delay (sec)	95th Percentile Queue (ft)					
OR 126 and Tom McCall Road										
2010	Northbound	E	0.62	43.9	100					
2018	Southbound*	F	>1.0	>80	200					
2035	Northbound	F >1.0		>80	>500					
2035	Southbound*	F	>1.0	>80	>500					
	0	R 126 and Airport W	/ay/SW Millican Road							
2018	Northbound*	С	0.38	23.2	50					
2018	Southbound	С	0.04	21.5	25					
2025	Northbound*	E	0.65	46.5	100					
2035	Southbound	F	0.22	59.9	25					

<sup>\*</sup> Critical Approach

As shown in Table 2, the intersection at Tom McCall Road and OR 126 will continue to exceed the City of Prineville LOS standards and will exceed the ODOT volume-to-capacity (V/C) targets through 2035. The OR 126/Airport Way/SW Millican Road is forecast to operate acceptably in 2018, but is predicted to operate at LOS "F" in 2035.

## Signal Build Alternative

The signal was evaluated under year 2018 and 2035 p.m. peak hour conditions to identify the most efficient lane configurations that would provide capacity to accommodate the forecast traffic volumes. The recommended lane configuration is shown in Exhibit 4. Table 4 summarizes the forecast operations for the intersection under signalized control.



Roundabout Build Alternative

The roundabout build alternative was evaluated to identify the necessary number of lanes and lane configurations to accommodate opening year 2018 and design year 2035 forecast traffic volumes. Two roundabout analysis methodologies were applied to reflect a range of driver performance. The capacity models utilized include the Highway Capacity Manual (HCM) 2010 procedures and the HCM 2010 model with a calibration by the City of Bend. The HCM 2010 methodologies are specifically developed to allow for calibration to local driver characteristics. A few jurisdictions in the U.S. have taken the step to develop a locally calibrated model, including the City of Bend. The City of Bend found higher capacities than the HCM 2010 as part of their local calibration effort. There are a variety of potential reasons for the observed local capacity being higher than the national average including more aggressive driver characteristics, driver familiarity, and increased use of turn signals. KAI recommends consideration of the calibrated model when looking at future conditions to estimate potential increases in capacity that might be realized by increased driver familiarity.

#### 2018 Opening Year Roundabout Alternative

A single-lane roundabout with no turn lanes is forecast to provide sufficient capacity for the opening year 2018 volumes with a substantial reduction in delay and vehicle queuing relative to the existing unsignalized intersection configuration.

#### 2035 Design Year Roundabout Alternative

A variety of roundabout configurations were evaluated to identify the number of lanes on each approach and lane configurations needed to accommodate the forecast 2035 design traffic volumes. The analysis, summarized in Table 3, indicates the lane configurations necessary to satisfy the ODOT and City of Prineville mobility targets vary between volume scenarios #1 and #2.

Table 3 2035 Design Year Roundabout Analysi	Table	e 3	2035	Design	Year	Round	la	bout	Ana	ysi
---------------------------------------------	-------	-----	------	--------	------	-------	----	------	-----	-----

Table 3 2033 Design Teal Roundabout Analysis										
		2035 Design enario #1 - r		Nav/	2035 Design Year (Volume Scenario #2 - with Airport Way/					
	•	llican Road R	•	,,	•	lican Road R	•	,		
Approach	Lane Configurations	Volume to Capacity Ratio <sup>1</sup>	Delay (sec)¹	95th Percentile Queue (ft) <sup>1</sup>	Lane Configurations	Volume to Capacity Ratio <sup>1</sup>	Delay (sec) <sup>1</sup>	95th Percentile Queue (veh)¹		
HCM 2010										
Eastbound	LT, TR	0.50	10.5	75	LTR	0.90	33.7	325		
Westbound	LTR	0.70	15.5	150	LTR	0.84	26.8	275		
Northbound	LTR	0.55	20.0	100	LT,R	0.68	31.3	125		
Southbound	LTR	0.41	13.8	50	LTR	0.52	18.7	75		
		нсм	2010 (with	City of Bend (	Calibration)					
Eastbound	LTR	0.77	16.9	200	LTR	0.72	15.2	175		
Westbound	LTR	0.57	10.0	100	LTR	0.68	14.0	150		
Northbound	LTR	0.50	16.6	75	LTR	0.71	24.7	150		
Southbound	LTR	0.29	8.4	50	LTR	0.36	10.3	50		

<sup>&</sup>lt;sup>1</sup> Reported for the critical lane for multilane approaches

LTR = Single lane approach; LT,TR = Left/through and Through/right lanes; LT,R = Left/through and right lanes

As shown in Table 3, under the uncalibrated model and assuming volume scenario #2, the roundabout is forecast to need a northbound right-turn lane to meet the mobility targets. In addition, with the volumes modeled, the eastbound approach is to forecast to operate at the mobility target of a V/C of 0.90. Given the potential need for multilane approaches in the future, it is recommended that ODOT, the City, and the County reserve right-of-way for potential future expansion of the roundabout. In addition, future developments that generate new trips impacting the OR 126/Tom McCall Road intersection should be evaluated to determine whether the development should be responsible for expansion of the roundabout.

#### 2035 Weekday PM Peak Hour Operations Comparison

As described, the evaluated traffic control alternatives can meet the ODOT and City operational performance measures in 2018 and 2035. Table 4 provides a side-by-side comparison of 2035 weekday p.m. peak hour operations for the alternatives. This analysis assumes Scenario #2 volumes for the build condition.

Table 4 Weekday PM Peak Hour Operations Comparison at OR 126/Tom McCall Road (Scenario #2)

	2035 Weekday P.M. Peak Hour							
	No-Build	Signal	Roundabout (HCM 2010)	Roundabout (City of Bend Calibration)				
95th Percentile Queue (ft)								
Eastbound OR 126	25	650	325	175				
Westbound OR 126	25	500	275	150				
Northbound Tom McCall Rd	>500	100	125	150				
Southbound Tom McCall Rd	>500	125	75	50				
Approach Capacity (v/c)								
Eastbound OR 126	0.02	0.78	0.90	0.72				
Westbound OR 126	0.04	0.69	0.84	0.68				
Northbound Tom McCall Rd	>1.0	0.58	0.68 <sup>1</sup>	0.71				
Southbound Tom McCall Rd	>1.0	0.65	0.52	0.36				
Approach Delay (s)								
Overall Intersection	>80	25.9	28.3	16.0				
Eastbound OR 126	0.5	22.7	33.7	15.2				
Westbound OR 126	1.1	16.8	26.8	14.0				
Northbound Tom McCall Rd	>80	40.4	31.3	24.7				
Southbound Tom McCall Rd	>80	36.6	18.7	10.3				
Level of Service (LOS)								
Overall Intersection	F	С	D	С				
Eastbound OR 126	Α	С	D	С				
Westbound OR 126	Α	В	D	В				
Northbound Tom McCall Rd	F	D	D	С				
Southbound Tom McCall Rd	F	D	С	В				

<sup>&</sup>lt;sup>1</sup> Assumes the addition of a northbound right-turn lane.

As shown, constructing a signal or roundabout at the OR 126/Tom McCall Road intersection will allow the intersection to operate at or below City of Prineville and ODOT performance targets assuming traffic from Airport Way/Millican Road is rerouted through the Tom McCall Road intersection.

# **ALTERNATIVE DESIGN CONCEPTS**

Preliminary roundabout and traffic signal concepts were prepared to accommodate forecast demand and reduce crash potential at the unsignalized OR 126/Tom McCall Road intersection. Technical Memorandum #2: Initial Design Concept Options (5/21/15) and Technical Memorandum #3: Refined Scoping Concepts (9/1/15) document the concept development and the design parameters reflected in the concepts.

Speed-reduction treatments are proposed for any traffic control alternative that requires major-street vehicles to stop or yield, given the intersection is in a rural, high-speed environment. Reducing speed in advance of the intersection and providing advanced warning of the need to stop or yield is critical to minimizing crash potential at the intersection. Horizontal curvature and extended medians are two methods proposed for both traffic control alternatives to reduce speeds on the OR 126 approaches to Tom McCall Road. Additional treatments vary by traffic control, as described below.

The design concepts were focused at the intersection. The intersection footprints for the roundabout and signalized intersections tie into the existing roadway alignment prior to the connection points for Airport Way and Millican Road. Therefore, the potential rerouting of Airport Way and Millican Road are not depicted in the concepts.

#### ROUNDABOUT INTERSECTION

Concept 1, shown in *Appendix A*, shows a single-lane roundabout. Reducing vehicle speeds entering the intersection is one of the fundamental design criteria for roundabouts. The roundabout design was developed based upon the fastest path criteria from *NCHRP Report 672* to maintain fastest path speeds entering the roundabout of less than 25 mph for all single-lane approaches.

#### Key design features include:

- A single-lane roundabout, which results in simplified operations and fewer potential conflict points in the near term. Consideration should be made for potential future expansion (e.g., right-of-way reservation).
- Inscribed circle diameter (ICD) of 175 feet, which exceeds the minimum of 165 feet established in Table 8-4 of the 2012 ODOT Highway Design Manual (HDM).
- Speed-reduction treatments, including splitter islands and a series of successive horizontal curves with progressively smaller radii on the OR 126 approaches, to transition from the posted speed to the design circulating speed.
- Curb radii that accommodate the design vehicle, WB-67.
- The center of the roundabout is offset approximately 15 feet to the north of the OR 126 centerline to avoid impact to the private property in the southeast quadrant of the intersection.
- Approach and circulatory lane widths range from 15 to 20 feet, consistent with guidance in the ODOT HDM and NCHRP Report 672.
- Bicycle ramps are provided on each approach, leading to 10-foot multi-use paths within all four quadrants.

#### SIGNALIZED INTERSECTION

Concept 2, shown in *Appendix A*, illustrates the signalized intersection concept. This concept is centered on the existing intersection and includes left-turn lanes on all approaches. The initial design concept was developed based on design fundamentals in the ODOT Traffic Signal Design Manual and Chapter 7 (Rural Highway Design) and Chapter 8 (Intersections) of the Highway Design Manual (HDM). The concept reflects key design features, including:

- Figure 8-9 of the HDM was used as guidance for development of the left-turn lane channelization.
- On the Tom McCall Road approaches, the left-turn lanes were designed with 100 feet of storage, which is the minimum length identified in the HDM.
- The OR 126 approaches were developed to accommodate the forecast 95<sup>th</sup>-percentile left-turn gueues and allow for adequate deceleration before vehicles reach the back of gueue.
- Eastbound and westbound splitter islands extend from the intersection to introduce horizontal geometry to reduce speeds upstream of the signal.
- All right-of-way impacts are constrained to right of way currently owned by Crook County.

# **ALTERNATIVE DESIGN EVALUATIONS**

#### SAFETY EVALUATION

Crash reports for a five-year period from January 1, 2009 through December 31, 2013 at the study intersections were obtained from the ODOT crash database. Table 5 summarizes the crashes at each intersection by crash type and severity.

Table 5 Intersection Crash Summary (2009-2013)

140.00													
	Crash Type									Crash Severity			
OR 126 Intersection	Angle	Turning	Rear End	Over -turn	Head On	Side Swipe	Bike/ Ped	Fixed Object/ Other	PDO *	Injury **	Fatal	5-Year Total	
Tom McCall Road	1	1	4	0	0	2	0	2	5	5	0	10	
Airport Way-SW Millican Road	1	0	1	1	0	1	0	1	2	3	0	5	
Total	2	1	5	1	0	3	0	3	7	8	0	15	

<sup>\*</sup> PDO = Property Damage Only

Table 5 shows a total of 15 crashes were reported over the five-year period. Eight crashes resulted in injury and seven crashes resulted in property damage only. As documented in Technical Memorandum #1, the crash rate at the OR 126/Tom McCall Road intersection exceeds the statewide 90<sup>th</sup>-percentile crash rate for similar intersection types.

<sup>\*\*</sup> Includes all levels of injury severity

Based on observed crash history and crash prediction methods from the *Highway Safety Manual* (HSM), 3.4 fatal or injury (FI) crashes and a total of 6.5 crashes are forecast to occur every five years at the OR 126/Tom McCall Road intersection. The HSM prediction models were calibrated to Oregon conditions using factors developed for rural, four-leg, stop-controlled intersections in Oregon by ODOT.

The estimated change in crashes associated with converting a stop-controlled intersection to a single or multilane roundabout on a high-speed, rural road is summarized in Table 6, based on quantitative research conducted nationally. As shown in Table 6, the conversion to a roundabout is expected to reduce the number of crashes at the OR 126/Tom McCall Road intersection by approximately 2.9 fatal and injury crashes and a total of 4.6 crashes over a 5-year period, assuming daily volumes remain relatively similar to 2014 levels.

Table 6 Crash Prediction Results for Converting to a Roundabout

	<u>-</u>								
	No-Build		Roundabout		Crashes	Reduced	Percent Reduction		
Intersection	Fatal and Injury Crashes	All Crashes							
Annual	0.7	1.3	0.1	0.4	0.6	0.9	87%	71%	
5-year Total	3.4	6.5	0.4	1.9	2.9	4.6	0770	/ 1/0	

Note: 5-year crash reduction totals are calculated as the percent reduction applied to no-build crash frequency.

The estimated change in crashes associated with converting a stop-controlled intersection to a signal is summarized in Table 7. As shown in Table 7, the conversion to a signal is expected to reduce the number of crashes at the intersection by approximately 0.1 fatal and injury crashes and a total of 2.9 crashes over a 5-year period, assuming daily volumes remain relatively similar to 2014 levels. While overall crashes are forecast to be reduced with the installation of a signal, experience shows that rear-end crashes will likely increase due to the installation of a traffic signal.

Table 7 Crash Prediction Results for Converting to a Signal

	No-Build		Signal		Crashes	Reduced	Percent Reduction		
Intersection	Fatal and Injury Crashes	All Crashes							
Annual	0.7	1.3	0.7	0.7	<0.1	0.6	3%	44% <sup>1</sup>	
5-year Total	3.4	6.5	3.3	3.6	0.1	2.9	370	4470 -	

<sup>&</sup>lt;sup>1</sup> The Highway Safety Manual (citing Harkey et al., 2008) indicates that the installation of a traffic signal will result in an *increase* of approximately 58% in rear-end crashes.

Crash prediction worksheets and a summary of crash modification factors used are provided in *Appendix B*.

If Airport Way/Millican Road is rerouted to Tom McCall Road, the no-build crash frequency is expected to increase by 30 percent, relative to the volume increase, but the percent reduction associated with each alternative will not change.

# FREIGHT MOBILITY

OR 126 and Millican Road serve a critical function carrying freight, including many oversize, overweight loads. KAI obtained single-use permit information for overdimensional freight on OR 126, for the years 2007 through 2012, and Millican Road, for the years 2013 and 2014. The longest combination truck length permitted was 267 feet; there were three permits (two on OR 126 and one on Millican Road) issued for this length. The widest load permitted was 23 feet and 6 inches.

Trucks over 18 feet tall may require removal of signal heads. On Millican Road a total of 12 permitted loads had a height of 18 feet or more. On OR 126, a total of 4 permitted loads had a height of 18 feet or more. Continuous Trip (Annual) Permits issued by ODOT Motor Carrier Division do not exceed these dimensions.

# Roundabout Design and Accommodation Vehicle

The roundabout geometry has been designed for circulation of a WB-67 Interstate Truck design vehicle on all movements. Specific design elements, including a traversable truck apron within the central island, provide the additional width required by the design vehicle while maintaining speed control for passenger cars. Illustrations of the design vehicle paths for the roundabout concept are provided in Technical Memorandum #3: Refined Scoping Concepts (9/1/15).

As described in Technical Memorandum #2, if a roundabout is selected as the preferred alternative, a truck bypass to accommodate overdimensional loads will be considered during the design phase of this project. With the concept shown, which centers the roundabout within 15 feet of the existing intersection, the overdimensional bypass would likely be constructed to the north of the intersection. An alternate strategy would be to shift the roundabout to the north and use the existing OR 126 alignment as the overdimensional bypass. Either strategy could use the overdimensional bypass as part of the construction staging strategy to allow the roundabout to be built not under traffic.

# Signalized Intersection Design and Accommodation Vehicle

The curb radii have been designed to allow for right-turns by the design vehicle (WB-67) under the signalized intersection concept. In addition to the horizontal geometry, accommodation of overdimensional loads under the signalized intersection concept must also consider vertical constraints (i.e., overhead signal mast arms). Signal mast arms are typically located at approximately 18 feet in height to maintain the signal heads within the driver's field of vision. As noted above, loads over 18 feet in height have been permitted on both OR 126 and Millican Road. Accommodation of overdimensional vehicles at the signalized intersection could occur similar to either of the bypass options presented for the roundabout concept. Alternatively, signal mast arms could be removed or traffic signal heads rotated as required to accommodate overdimensional loads. This process could incur significant costs and potentially introduce maintenance issues each time an overheight load passes through the intersection.

# PEDESTRIAN AND BICYCLE ACCOMMODATIONS

The estimated theoretical speed for the roundabout at the exit leg crosswalk is 32-34 mph. This estimate is based on an assumed acceleration rate of 6.9 ft/s² over a distance measured from the middle of the circulating path radius (R2) to the crosswalk. These speeds reflect the roundabout's geometric design elements (Inscribed Circle Diameter and exit radii) that were established to accommodate large vehicles at the intersection.

Two factors indicate less crossing risk at the roundabout relative to crossings that would occur under the existing stop-controlled condition. First, crossings at the roundabout are anticipated to occur with speeds of less than 34 mph compared to 55 mph or higher under the existing condition. Second, crossings at the roundabout can be conducted in two stages, crossing one lane at a time with a refuge in the splitter island.

# **COST ESTIMATES**

Conceptual cost estimates were prepared using planning-level unit prices. The cost estimates include an itemized breakdown of major earthwork, pavement structure, and other identifiable major components, (e.g., signing and pavement marking, street lighting). Groups of items (such as traffic control) are presented as lump sum items and the estimates provided are based on similar work for other projects. Assumed unit costs and estimated quantities are provided in *Appendix C*.

The following factors have the greatest influence on the roundabout costs:

- Assume all new pavement starting at splitter island nose (includes base plus 11-inch pavement)
- Splitter islands are 8 to 10 feet wide
- No sidewalk and no curb on outside of roadway
- Construction cost includes 15% engineering

The following factors have the greatest influence on the signal costs:

- Assume all new pavement from beginning of widening for turn lanes (includes base plus 11inch pavement)
- Signal equipment estimated at \$275,000
- Construction cost includes 15% engineering

Based on these assumptions, the preliminary construction cost and project cost estimates are summarized in Table 8.

**Table 8 Preliminary Construction Cost Estimates for Alternatives** 

Performance Measure	Signal	Roundabout
Construction Cost	\$2,200,000	\$2,104,000
Professional Fees (15%)	\$330,000	\$316,000
Contingency (30%)	\$759,000	\$726,000
Project Cost (including contingency)	\$3,289,000	\$3,146,000

The costs shown in Table 8 do not include rerouting of Millican Road or Airport Way to Tom McCall Road, as those connections are not reflected in the concept designs.

# **EVALUATION SUMMARY**

The evaluations of each alternative, as described in the previous sections, were related to one another in terms of the relative level of improvement provided. The summary is provided in Table 9. The alternatives with the best possible outcome are indicated by a solid circle and those with the least favorable outcome are indicated by an open circle. The alternatives with neutral outcomes are indicated by a half-filled circle.

**Table 9 Relative Comparison of Alternatives** 

Alternative	Operations	Safety	Cost	Freight	Access	Pedestrian/ Bicycle	Overall
No Build	0	0			0	0	0
Signal		•				•	
Roundabout			-	-		•	

**Operations** - The signal and roundabout alternatives provide additional capacity needed to accommodate 2035 forecast volumes.

**Safety** – The roundabout alternative provides the greatest potential for crash reduction. A signal is expected to reduce crashes, relative to a no-build scenario.

**Cost** – Both alternatives are estimated to cost approximately \$3 million, including 30% contingency. The signal is estimated to cost slightly more than the roundabout since the length of the splitter islands on each of the OR 126 approaches at a signal include storage length for the left-turn lanes.

**Freight** — The no-build scenario does not require freight to stop on OR 126, but a signal and roundabout will. Both a signal and roundabout can accommodate all freight movements.

**Access** – Access to OR 126 from the side streets at Millican Road-Airport Way and Tom McCall is difficult during peak periods under the existing, no-build scenario. Given the longer start-up times from a stop for commercial vehicles, freight movements are particularly impacted by the current

condition. Installation of either a roundabout or a traffic signal will improve access to and from the industrial area.

**Pedestrian/Bicycle** – The no-build option does not provide any crossing enhancements, but the signal and roundabout will provide speed reduction and marked crossings.

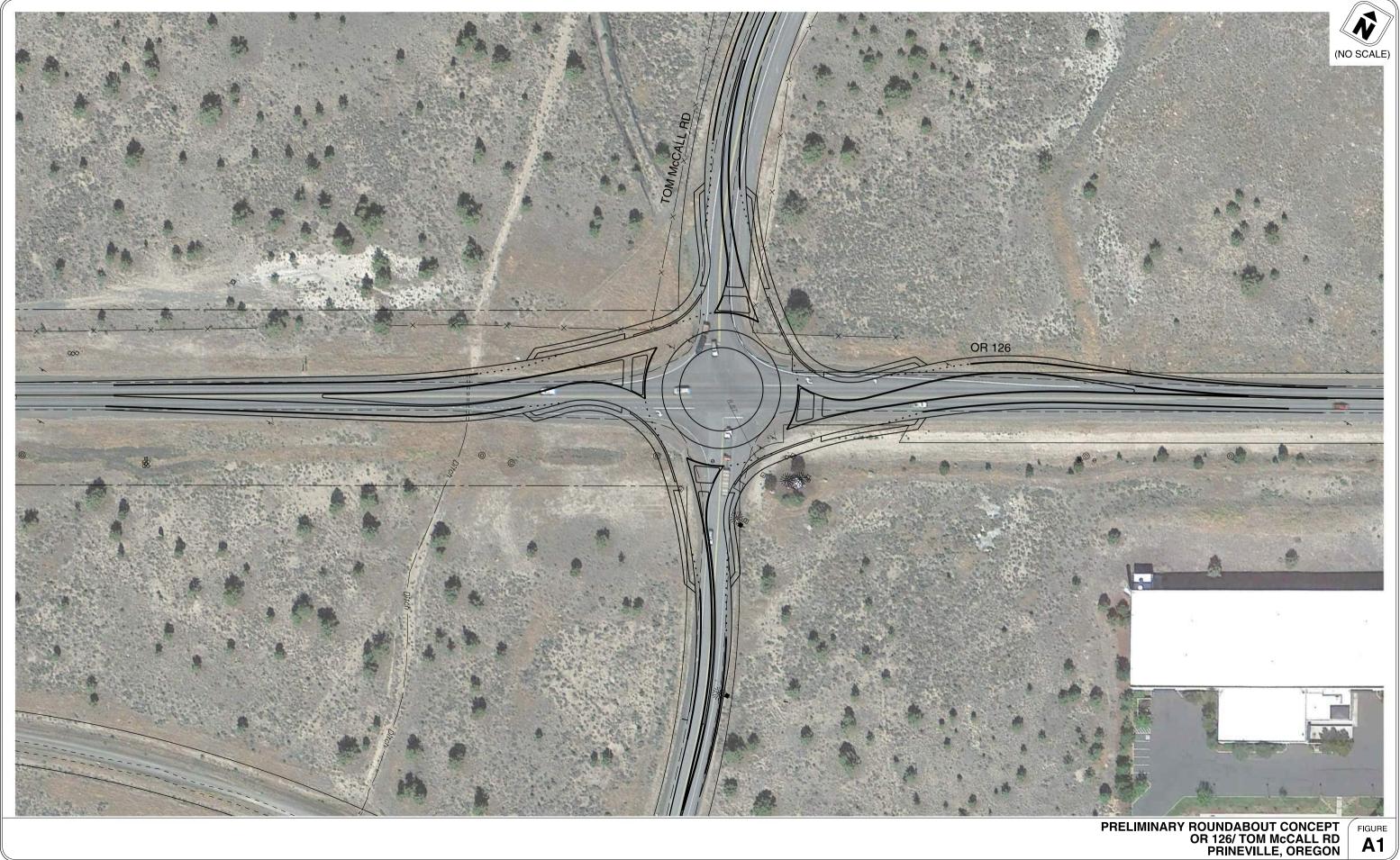
**Overall** – The safety benefits of a roundabout exceed that of a signal and all other categories are relatively similar to a signal. Therefore, a roundabout is the recommended alternative for design.

# CONCLUSION

The evaluation indicates that either a signal or roundabout could: provide adequate capacity and minimize delay under 2035 traffic conditions, accommodate freight movements, and accommodate bicycle and pedestrian users. However, the roundabout is expected to provide the greatest potential for crash reduction and is, therefore, the recommended alternative.

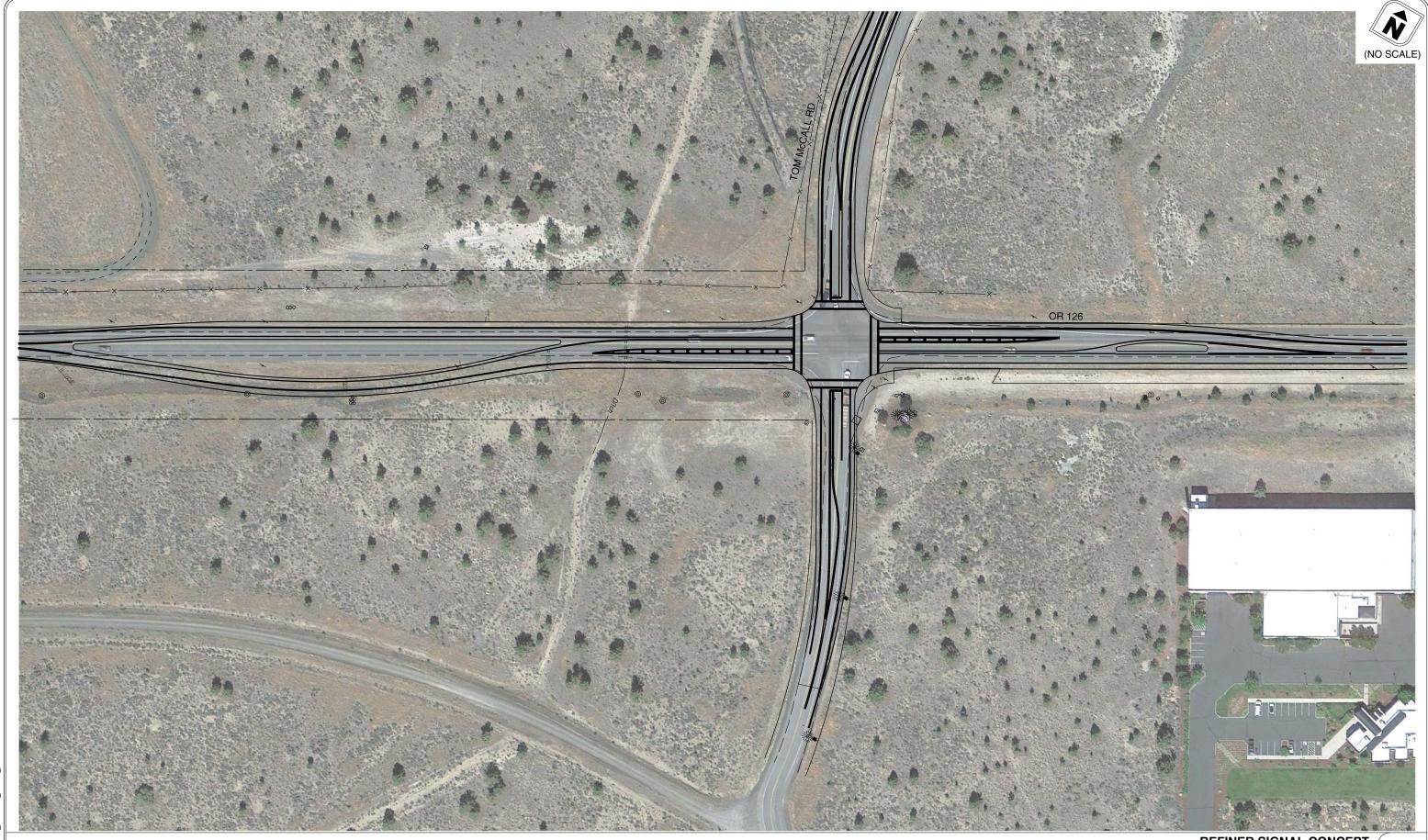


OR126/ Tom McCall Rd Intersection





OR126/ Tom McCall Rd Intersection



REFINED SIGNAL CONCEPT OR 126/ TOM McCALL RD PRINEVILLE, OREGON

**Appendix B** Crash Prediction Worksheets

	Wor	sheet 2A Ge	neral Information a	and Input Data for Rural Two-	Lane Two-Way Roadw	ay Intersections		
General Information					Location Information			
Analyst		CRB		Roadway			Tom McCall	
Agency or Company		KAI		Intersection			OR 126 at Tom McCall Road	
Date Performed		06/06/	15	Jurisdiction			Prineville, OR	
				Analysis Year			2014	
	Input Data			Base Conditions			Site Conditions	
Intersection type (3ST, 4ST, 4SG)							4ST	
AADT <sub>major</sub> (veh/day)	AADT	$A_{X} = 14,700$	(veh/day)				11,645	
AADT <sub>minor</sub> (veh/day)	AADT <sub>N</sub>	$_{AX} = 3,500$	(veh/day)				1,635	
Intersection skew angle (degrees)	[If 4ST, does skew differ for	minor legs?]	No	0	Skew for Leg 1 (All):	0	Skew for Leg 2 (4ST only):	0
Number of signalized or uncontrolle	d approaches with a left-turn la	ne (0, 1, 2, 3, 4)		0			0	
Number of signalized or uncontrolle	gnalized or uncontrolled approaches with a right-turn lane (0, 1, 2, 3, 4)		2					
Intersection lighting (present/not pre	esent)			Not Present			Not Present	
Calibration Factor, C <sub>i</sub>				1.00			0.31	

	Worksheet 2B Crash Modification Factors for Rural Two-Lane Two-Way Roadway Intersections					
(1)	(2)	(3)	(4)	(5)		
CMF for Intersection Skew Angle	CMF for Left-Turn Lanes	CMF for Right-Turn Lanes	CMF for Lighting	Combined CMF		
CMF <sub>1i</sub>	CMF <sub>2i</sub>	CMF <sub>3i</sub>	CMF <sub>4i</sub>	CMF <sub>COMB</sub>		
from Equations 10-22 or 10-23	from Table 10-13	from Table 10-14	from Equation 10-24	(1)*(2)*(3)*(4)		
1.00	1.00	0.74	1.00	0.74		

Worksheet 2C Intersection Crashes for Rural Two-Lane Two-Way Roadway Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Crash Severity Level	N <sub>spf 3ST, 4ST or 4SG</sub>	Overdispersion	Crash Severity	N spf 3ST, 4ST or 4SG by Severity		Calibration Factor, C <sub>i</sub>	Predicted average crash frequency, N
	spf 351, 451 or 45G	Parameter, k	Distribution	Distribution	Combined CMFs		predicted int
	from Equations 10-8, 10-9, or	from Section	from Table 10-	(2) <sub>TOTAL</sub> * (4)	from (5) of Worksheet		(5)*(6)*(7)
	10-10	10.6.2	5	(Z)TOTAL (T)	2B		(3) (6) (7)
Total	4.812	0.24	1.000	4.812	0.74	0.31	1.104
Fatal and Injury (FI)		-	0.518	2.493	0.74	0.31	0.572
Property Damage Only (PDO)			0.482	2.320	0.74	0.31	0.532

		Worksheet 2D Crashes by	Severity Level and Collision	Type for Rural Two-Lane Two-Way	y Road Intersections	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Collision Type	Proportion of	N predicted int (TOTAL)	Proportion of Collision	N predicted int (FI) (crashes/year)	Proportion of Collision Type(PDO)	N predicted int (PDO) (crashes/year)
	Collision	(crashes/year)	Type <sub>(FI)</sub>			
	Type(total)					
	from Table 10- 6	(8)TOTAL from Worksheet 2C	from Table 10-6	(8)FI from Worksheet 2C	from Table 10-6	(8)PDO from Worksheet 2C
Total	0.999	1.104	1.002	0.572	1.000	0.532
		(2)x(3)total		(4)x(5)fi		(6)x(7)pdo
			SINGLE-	/EHICLE		
Collision with animal	0.001	0.001	0.000	0.000	0.003	0.002
Collision with bicycle	0.011	0.012	0.020	0.011	0.000	0.000
Collision with pedestrian	0.009	0.010	0.018	0.010	0.000	0.000
Overturned	0.009	0.010	0.013	0.007	0.006	0.003
Ran off road	0.044	0.049	0.030	0.017	0.059	0.031
Other single-vehicle collision	0.004	0.004	0.008	0.005	0.000	0.000
Total single-vehicle crashes	0.078	0.086	0.089	0.051	0.068	0.036

MULTIPLE-VEHICLE						
Angle collision	0.359	0.396	0.422	0.241	0.288	0.153
Head-on collision	0.005	0.006	0.008	0.005	0.003	0.002
Rear-end collision	0.189	0.209	0.177	0.101	0.203	0.108
Sideswipe collision	0.003	0.003	0.005	0.003	0.000	0.000
Other multiple-vehicle collision	0.365	0.403	0.301	0.172	0.438	0.233
Total multiple-vehicle crashes	0.921	1.017	0.913	0.522	0.932	0.496

Worksheet 2E Summary Results for Rural Two-Lane Two-Way Road Intersections							
(1)    (2)							
Crash severity level	Crash Severity Distribution (proportion)	Predicted average crash frequency (crashes / year)					
	(4) from Worksheet 2C	(8) from Worksheet 2C					
Total	1.000	1.1					
Fatal and Injury (FI)	0.518	0.6					
Property Damage Only (PDO)	0.482	0.5					

# Worksheet 3A -- Predicted and Observed Crashes by Severity and Site Type Using the Site-Specific EB Method

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Site type			Observed crashes,	Overdispersion Parameter, k	Weighted adjustment, w	Expected average crash frequency,	
	N predicted (TOTAL)	N predicted (FI)	N <sub>predicted</sub> (PDO)	(crashes/year)		Equation A-5 from Part C Appendix	Equation A-4 from Part C Appendix
	•	RO	DADWAY SEG	MENTS	•		
Segment 1						1.000	0.0
Segment 2						1.000	0.0
Segment 3						1.000	0.0
Segment 4						1.000	0.0
Segment 5						1.000	0.0
Segment 6						1.000	0.0
Segment 7						1.000	0.0
Segment 8						1.000	0.0
			INTERSECTION	ONS			
Intersection 1	1.104	0.572	0.532	2	0.240	0.791	1.3
Intersection 2						1.000	0.0
Intersection 3						1.000	0.0
Intersection 4						1.000	0.0
Intersection 5						1.000	0.0
Intersection 6						1.000	0.0
Intersection 7						1.000	0.0
Intersection 8			•			1.000	0.0
COMBINED (sum of column)	1.104	0.572	0.532	2			1.3

# Worksheet 3B -- Site-Specific EB Method Summary Results

(1)	(2)	(3)
Crash severity level	N predicted	N <sub>expected</sub>
Total	(2) <sub>COMB</sub> from Worksheet 3A	(8) <sub>COMB</sub> from Worksheet 3A
	1.104	1.3
Fatal and Injury (FI)	(3) <sub>COMB</sub> from Worksheet 3A	(3) <sub>TOTAL</sub> * (2) <sub>FI</sub> / (2) <sub>TOTAL</sub>
	0.572	0.7
Property Damage Only (PDO)	(4) <sub>COMB</sub> from Worksheet 3A	(3) <sub>TOTAL</sub> * (2) <sub>PDO</sub> / (2) <sub>TOTAL</sub>
	0.532	0.6



# **CMF Comparison**

Below you will find comparisons for the CMFs you chose.

Please note that the rows highlighted in  $\pmb{\mathsf{light blue}}$  contain the differences in the selected CMFs.

Countermeasure Name	Convert intersection with minor-road stop control to modern roundabout	Convert intersection with minor-road stop control to modern roundabout
CMF ID	229	230
CMF	0.29	0.13
Study Reference	Rodegerdts et al., 2007	Rodegerdts et al., 2007
Unadjusted Standard Error CMF	0.04	0.03
CMFunction		
Star Rating	按按按按	ŔŔŔŔŔ
Crash Type	All	All
Crash Severity	All	Serious Injury,Minor Injury
Crash Time of Day		
Area Type	Rural	Rural
Road Division Type		
Road Type	Not Specified	Not Specified
Number of Lanes	1	1
Intersection Type	Roadway/roadway (not interchange related)	Roadway/roadway (not interchange related)
Intersection Geometry	4-leg	4-leg
Traffic Control	Stop-controlled	Stop-controlled
Speed Limit		
Study Type	Before/after using empirical Bayes or full Bayes	Before/after using empirical Bayes or full Bayes
Years From		
Years To		
Traffic Volume Unit	Unit Unknown	Unit Unknown
Min Traffic Volume		
Max Traffic Volume		
Min Major Rd Volume		
Max Major Rd Volume		
Min Minor Rd Volume		
Max Minor Rd Volume		
Avg Traffic Volume		
Avg Major Rd Volume		
Avg Minor Rd Volume		
State of Origin		
Municipality		

Country		
Comments	Countermeasure name changed from "convert two-way stop-controlled inter- section to roundabout" to match HSM	Countermeasure name changed from "convert two-way stop-controlled inter- section to roundabout" to match HSM

This site is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the University of North Carolina Highway Safety Research Center

For more information, contact Karen Scurry, FHWA Office of Safety Programs 609-637-4207

The information contained in the Crash Modification Factors (CMF) Clearinghouse is disseminated under the sponsorship of the U.S. Department of Transportation in the interest of information exchange. The U.S. Government assumes no liability for the use of the information contained in the CMF Clearinghouse. The information contained in the CMF Clearinghouse does not constitute a standard, specification, or regulation, nor is it a substitute for sound engineering judgment.

Table 3. Crash modification factors for conversion from stop control to signal control.

Area Type	Number of Legs	Crash Type	Crash Severity	CMF Value	Std. Error	N <sup>2</sup>	Issues <sup>3</sup>	Comment (Source <sup>1</sup> )
Mix	Any	Total	All	1.00		518	A, C, E	Based on crash rate. (b)
			FI	0.97		518	A, C, E	Based on crash rate. (b)
			PDO	1.06		518	A, C, E	Based on crash rate. (b)
		Right	All	0.69		518	A, C, E	Based on crash rate. (b)
		angle	FI					
			PDO					
		Rear end	All	1.82		518	A, C, E	Based on crash rate. (b)
			FI					
			PDO					
		Left turn	All	0.77		518	A, C, E	Based on crash rate. (b)
			FI					
			PDO					
Rural	Any	Total	All	0.63		283	A, C	Based on crash rate. (b)
				0.56	0.03	45	A, D	(d)
			FI					
			PDO					
		Right	All	0.23	0.02	45	A, D	(d)
		angle	FI					
			PDO					
		Rear end	All	1.58	0.14	45	A, D	(d)
			FI					
			PDO					
		Left turn	All	0.40	0.05	45	A, D	(d)
			FI					
			PDO					

# Notes:

<sup>1 -</sup> Sources:

a – McGee et al. (2003). b – Pernia et al. (2002). c – Davis and Aul (2007). d – Harkey et al. (2008).

<sup>2 –</sup> N: number of intersections evaluated.

<sup>3</sup> – Issues: A – number of legs not addressed. C- regression-to-the-mean artifacts not addressed. D – change in geometric design elements or traffic control features not addressed. E – influence of urban versus rural area type not addressed.

<sup>&</sup>quot;--" - not available.

**Appendix C** Cost Estimation Worksheets

# CONSTRUCTION COST ESTIMATE - 2015 BID ITEMS

# OR126 at Tom McCall Rd intersection - Roundabout Option

GRADING, DRAINAGE, PAVING, ILLUMINATION, SIGNING, AND STRIPING
PREPARED BY: KITTELSON & ASSOCIATES

BID ITEM NO.	ITEM DESCRIPTION	BID UNIT	QUANTITY	UNIT COST	TOTAL COST
<b>TEMPORARY FEATURE</b>	S AND APPURTENANCES	TOTAL FO	R GROUP	\$353,237	\$353,237
0210-0100000A	MOBILIZATION	LS	All	10.0% Biddable	\$163,446
0225-0100000A	TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC	LS	All	10.0% Biddable	\$163,446
0280-0114030E	INLET PROTECTION, TYPE 3	EACH		\$200	\$0
0280-0115030F	SEDIMENT BARRIER, TYPE 3	FOOT	5,000	\$2	\$10,000
0280-0100000A	EROSION CONTROL	LS	All	1.0% Biddable	\$16,345
ROADWORK		TOTAL FO	R GROUP	\$172,172	\$172,172
0305-0100000A	CONSTRUCTION SURVEY WORK	LS	All	1.5% Biddable	\$24,517
0310-0106000A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	All	1.0% Biddable	\$16,345
0320-0100000A	CLEARING AND GRUBBING	LS	1	\$5,000	\$5,000
0330-0105000K	GENERAL EXCAVATION	CUYD	9,750	\$12	\$117,000
0350-0105000J	SUBGRADE GEOTEXTILE	SQYD	7,310	\$1	\$7,310
0390-0105000K	LOOSE RIPRAP, CLASS 50	CUYD	40	\$50	\$2,000
DRAINAGE AND SEWE	,		R GROUP	\$52,600	\$52,600
0445-030012BF	12 INCH SANITARY SEWER PIPE, 10 FT DEPTH	FOOT	400	\$80	<del>40</del> =,000
0430-0100120F	12 INCH DRAIN PIPE	FOOT	200	\$50	\$10,000
0430-0100180F	18 INCH DRAIN PIPE	FOOT	200	\$75	\$15,000
0470-0101000E	CONCRETE STORM SEWER MANHOLES	EACH	4	\$3,500	\$14,000
0470-0307000E	CONCRETE INLETS, TYPE CG-2	EACH	8	\$1,700	\$13,600
BASES	00.10.11.11.11.10, 1.11.1.00 L	TOTAL FO		\$280,000	\$280.000
0640-0100000M	AGGREGATE BASE	TON	14,000	\$20,000	\$280,000
WEARING SURFACES	AGGNEGATE BAGE		R GROUP	\$1,032,790	\$1,032,790
0745-0402000M	LEVEL 4, 1/2 INCH ACP	TON	10,000	\$1,032,730	\$650,000
0759-0103000F	CONCRETE CURBS, CURB AND GUTTER	FOOT	3,090	\$15	\$46,350
0759-0110000F	CONCRETE CURBS, STANDARD CURB	FOOT	4,275	\$14	\$59,850
0759-0106000F	CONCRETE CURBS, LOW PROFILE MOUNTABLE CURB	FOOT	4,273	\$18	\$55,830
0759-0112000F	CONCRETE CURBS, STANDARD CURB, MODIFIED	FOOT		\$30	\$0
0759-0122000J	CONCRETE ISLANDS	SQFT	20,000	\$8	\$160,000
0759-0128000J	CONCRETE WALKS	SQFT	10,268	\$5	\$51,340
0759-0147000J	PATTERNED CONCRETE SURFACING	SQFT	7,250	\$9	\$65,250
	SAFETY AND GUIDANCE DEVICES	TOTAL FO	· ·	\$40,000	\$40,000
	PAVEMENT MARKINGS	LS	1	\$40,000	\$40,000
	CONTROL AND ILLUMINATION SYSTEMS	TOTAL FO		\$40,000	\$40,000
	Signs & Posts. Removal & Relocation.	LS	1	\$30,000	\$30,000
970	Street Illumination	LS	1	\$10,000	\$10,000
	DPMENT AND CONTROL	TOTAL FO		\$133,161	\$133,161
1030, 1040	Landscaping	LS	All	5.0% Biddable	\$85,401
1030-0108000R	Permanent Seeding	ACRE	2	\$3,000	\$6,000
1040-0101000K	Biofilter Mix, Topsoil	CUYD	928	\$45	\$41,760
SUBTOTAL, BIDDABLE		60.5	320	ا در د	\$2,103,959
SOBIOTAL, DIDDADLL	TEMS				32,103,333
CONSTRUCTION ENGIN	IFERING	TOTAL FO	P CPOLID	\$315,594	
CONSTRUCTION LINGIN	Engineering	IOIALFO	K GROUP	15.0% of Subtotal	\$315,594
	Engineering			13.070 OI JUDIOIGI	7313,334
ESTIMATED COST					\$2,419,552
LOTHINATED COST					7E,413,33E
CONTINGENCIES				30% of Estimate	\$725,866
CONTINUENCIES				JU/O OF ESCITIALE	7123,000
ESTIMATED TOTAL	· · · · · · · · · · · · · · · · · · ·				\$3,145,418
LSTIMATED TOTAL					33,143,418

# **CONSTRUCTION COST ESTIMATE - 2015 BID ITEMS**

OR126 at Tom McCall Rd intersection - Signalized Option grading, drainage, paving, signal, illumination, signing, and striping prepared by: kittelson & associates

BID ITEM NO.	ITEM DESCRIPTION	BID UNIT	QUANTITY	UNIT COST	TOTAL COST
TEMPORARY FEATURES	S AND APPURTENANCES	TOTAL FO	R GROUP	\$368,892	\$368,892
0210-0100000A	MOBILIZATION	LS	All	10.0% Biddable	\$170,901
0225-0100000A	TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC	LS	All	10.0% Biddable	\$170,901
0280-0114030E	INLET PROTECTION, TYPE 3	EACH		\$200	\$0
0280-0115030F	SEDIMENT BARRIER, TYPE 3	FOOT	5,000	\$2	\$10,000
0280-0100000A	EROSION CONTROL	LS	All	1.0% Biddable	\$17,090
ROADWORK		TOTAL FO	R GROUP	\$184,825	\$184,825
0305-0100000A	CONSTRUCTION SURVEY WORK	LS	All	1.5% Biddable	\$25,635
0310-0106000A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	All	1.0% Biddable	\$17,090
0320-0100000A	CLEARING AND GRUBBING	LS	1	\$5,000	\$5,000
0330-0105000K	GENERAL EXCAVATION	CUYD	9,750	\$12	\$117,000
0350-0105000J	SUBGRADE GEOTEXTILE	SQYD	18,100	\$1	\$18,100
0390-0105000K	LOOSE RIPRAP, CLASS 50	CUYD	40	\$50	\$2,000
DRAINAGE AND SEWE			R GROUP	\$52,600	\$52,600
0445-030012BF	12 INCH SANITARY SEWER PIPE, 10 FT DEPTH	FOOT	400	\$80	<del>70</del> 2,000
0430-0100120F	12 INCH DRAIN PIPE	FOOT	200	\$50	\$10,000
0430-0100180F	18 INCH DRAIN PIPE	FOOT	200	\$75	\$15,000
0470-0101000E	CONCRETE STORM SEWER MANHOLES	EACH	4	\$3,500	\$14,000
0470-0307000E	CONCRETE INLETS, TYPE CG-2	EACH	8	\$1,700	\$13,600
BASES			R GROUP	\$347,000	\$347,000
0640-0100000M	AGGREGATE BASE	TON	17,350	\$20	\$347,000
WEARING SURFACES	- 100 112 5 102	_	R GROUP	\$994,550	\$994,550
0745-0402000M	LEVEL 4, 1/2 INCH ACP	TON	10,760	\$65	\$699,400
0759-0103000F	CONCRETE CURBS, CURB AND GUTTER	FOOT	1,235	\$15	\$18,525
0759-0110000F	CONCRETE CURBS, STANDARD CURB	FOOT	1,200	\$14	\$16,800
0759-0106000F	CONCRETE CURBS, LOW PROFILE MOUNTABLE CURB	FOOT		\$18	\$0
0759-0112000F	CONCRETE CURBS, STANDARD CURB, MODIFIED	FOOT		\$30	\$0
0759-0122000J	CONCRETE ISLANDS	SQFT	24,600	\$8	\$196,800
0759-0128000J	CONCRETE WALKS	SQFT	12,605	\$5	\$63,025
0759-0147000J	PATTERNED CONCRETE SURFACING	SQFT		\$9	\$0
PERMANENT TRAFFIC S	SAFETY AND GUIDANCE DEVICES	TOTAL FO	R GROUP	\$75,000	\$75,000
851, 855, 860, 865, 867	PAVEMENT MARKINGS	LS	1	\$75,000	\$75,000
PERMANENT TRAFFIC	CONTROL AND ILLUMINATION SYSTEMS	TOTAL FO	R GROUP	\$40,000	\$40,000
905, 910, 920, 930, 940	Signs & Posts. Removal & Relocation.	LS	1	\$30,000	\$30,000
970	Street Illumination	LS	1	\$10,000	\$10,000
0990-0101000A	TRAFFIC SIGNAL INSTALLATION	LS	1	\$275,000	\$275,000
RIGHT OF WAY DEVELO	PMENT AND CONTROL	TOTAL FO	R GROUP	\$137,056	\$137,056
1030, 1040	Landscaping	LS	All	5.0% Biddable	\$89,296
1030-0108000R	Permanent Seeding	ACRE	2	\$3,000	\$6,000
1040-0101000K	Biofilter Mix, Topsoil	CUYD	928	\$45	\$41,760
SUBTOTAL, BIDDABLE	TEMS				\$2,199,923
CONSTRUCTION ENGIN		TOTAL FO	R GROUP	\$329,988	
	Engineering			15.0% of Subtotal	\$329,988
ESTIMATED COST					\$2,529,912
					, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
CONTINGENCIES				30% of Estimate	\$758,973
ESTIMATED TOTAL					\$3,288,885
LOTHINATED TOTAL					JJ,200,083

# APPENDIX G – EXISTING CONDITIONS SENSITIVITY ANALYSIS AT OR126/TOM MCCALL ROAD

# **MOVEMENT SUMMARY**

▼ Site: 101 [TM Existing PM - Sens (Site Folder: Sensitivity)]

New Site

Site Category: (None)

Roundabout

Veh	icle Mo	vement	Perfor	mance										
Mov ID	Turn	INP VOLU [ Total veh/h		DEM, FLO [ Total veh/h		Deg. Satn v/c		Level of Service	95% BA QUE [ Veh. veh	ACK OF EUE Dist ] ft	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed mph
Sout	h: Tom	McCall R		VO11/11	70	<b>V/</b> O			VO11	- 10				ШРП
3	L2	102	7.0	112	7.0	0.769	33.9	LOS D	6.0	164.9	0.85	1.23	2.10	23.6
8	T1	8	14.0	9	14.0	0.769	34.4	LOS D	6.0	164.9	0.85	1.23	2.10	23.6
18	R2	200	14.0	220	14.0	0.769	34.4	LOS D	6.0	164.9	0.85	1.23	2.10	23.1
Appr	oach	310	11.7	341	11.7	0.769	34.2	LOS D	6.0	164.9	0.85	1.23	2.10	23.3
East	: OR126	6												
1	L2	52	24.0	57	24.0	0.536	10.1	LOS B	3.5	94.7	0.45	0.28	0.45	32.1
6	T1	427	7.0	469	7.0	0.536	9.6	LOSA	3.5	94.7	0.45	0.28	0.45	32.6
16	R2	58	13.0	64	13.0	0.536	9.8	LOSA	3.5	94.7	0.45	0.28	0.45	31.5
Appr	oach	537	9.3	590	9.3	0.536	9.7	LOSA	3.5	94.7	0.45	0.28	0.45	32.4
Nort	h: Tom N	∕IcCall R	d											
7	L2	90	4.0	99	4.0	0.247	8.5	LOSA	1.0	26.3	0.65	0.65	0.65	31.9
4	T1	4	13.0	4	13.0	0.247	9.0	LOSA	1.0	26.3	0.65	0.65	0.65	31.7
14	R2	55	0.0	60	0.0	0.247	8.3	LOSA	1.0	26.3	0.65	0.65	0.65	31.1
Appr	oach	149	2.8	164	2.8	0.247	8.4	LOSA	1.0	26.3	0.65	0.65	0.65	31.6
Wes	t: OR12	6												
5	L2	3	33.0	3	33.0	0.789	19.3	LOS C	17.9	470.1	0.79	0.84	1.28	28.5
2	T1	771	6.0	847	6.0	0.789	18.4	LOS C	17.9	470.1	0.79	0.84	1.28	29.1
12	R2	3	67.0	3	67.0	0.789	20.3	LOS C	17.9	470.1	0.79	0.84	1.28	27.4
Appr	oach	777	6.3	854	6.3	0.789	18.4	LOS C	17.9	470.1	0.79	0.84	1.28	29.1
All V	ehicles	1773	7.9	1948	7.9	0.789	17.7	LOS C	17.9	470.1	0.69	0.73	1.12	28.9

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Organisation: KITTELSON AND ASSOCIATES INC | Licence: NETWORK / Enterprise | Processed: Thursday, December 16, 2021 4:47:02 PM Project: H:\26\2648 - Crossing Trails Destination Resort\SIDRA\26648 - Roundabouts.sip9

# APPENDIX H – 2026 BACKGROUND CONDITIONS OPERATIONAL ANALYSIS WORKSHEETS

Intersection								
Int Delay, s/veh	34.7							
Movement	WBL	WBR	NBT	NBR	SBL	SBT		
Lane Configurations	VVDL	VVDIX	NDT	TION T	JDL	<u>361</u>		
Traffic Vol, veh/h	146	190	340	155	239	311		
Future Vol, veh/h	146	190	340	155	239	311		
Conflicting Peds, #/hr	0	0	0	0	0	0		
Sign Control	Stop	Stop	Free	Free	Free	Free		
RT Channelized	- -		-		-	None		
Storage Length	0	0	_	150	170	-		
Veh in Median Storage	-	-	0	-	-	0		
Grade, %	0	_	0	_	_	0		
Peak Hour Factor	88	88	88	88	88	88		
Heavy Vehicles, %	20	22	5	10	19	3		
Mymt Flow	166	216	386	176	272	353		
Major/Minor	Minor1		Major1		Major			
					Major2	0		
Conflicting Flow All	1283	386	0	0	562	0		
Stage 1	386 897	-	-	-	-	-		
Stage 2 Critical Hdwy	6.6	6.42	-	-	4.29	-		
•	5.6	0.42	-	-	4.29	-		
Critical Hdwy Stg 1 Critical Hdwy Stg 2	5.6	-	-	-	-	-		
	3.68	3.498	- -	-	2.371	-		
Follow-up Hdwy Pot Cap-1 Maneuver	167	620	-	-	930	-		
Stage 1	649	020	-	-	930	-		
Stage 2	370	-		_	-			
Platoon blocked, %	310	_	-	-	_	_		
Mov Cap-1 Maneuver	~ 112	620		-	930			
Mov Cap-1 Maneuver		020	_		330	_		
Stage 1	649		_		_			
Stage 2	262			_	_	_		
Olugo Z	202							
Annragah	MD		ND		CD			
Approach	WB		NB		SB			
HCM Control Delay, s			0		4.5			
HCM LOS	F							
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1V		SBL	SBT	
Capacity (veh/h)		-	-	118	620	930	-	
HCM Lane V/C Ratio		-		1.406			-	
HCM Control Delay (s)		-	-	293.1	13.9	10.5	-	
HCM Lane LOS		-	-	F	В	В	-	
HCM 95th %tile Q(veh	)	-	-	11.4	1.6	1.2	-	
Notes								
~: Volume exceeds cap	pacity	\$: De	lav exc	eeds 30	00s	+: Comr	outation Not Defined	*: All major volume in platoon
. Totalilo okooddo da	Lacity	ψ. Δ0	.ay one	3545 00		. 55111	J. J	. 7 iii major voidino in pidtoon

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Intersection							
Int Delay, s/veh	2.3						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	ኘ	7	<b>↑</b>	7	ሻ	<u>□ □ □ □</u>	
Traffic Vol, veh/h	5	118	505	29	134	555	
Future Vol, veh/h	5	118	505	29	134	555	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	- Olop	None	-	None	-	None	
Storage Length	0	100	_	100	100	-	
Veh in Median Storage,		-	0	-	-	0	
Grade, %	, # 0	_	0	_	_	0	
Peak Hour Factor	88	88	88	88	88	88	
Heavy Vehicles, %	0	0	5	00	00	6	
	6	134	574	33	152	631	
Mvmt Flow	O	134	5/4	33	152	031	
Major/Minor N	Minor1	N	Major1		Major2		
Conflicting Flow All	1509	574	0	0	607	0	
Stage 1	574	-	-	-	-	-	
Stage 2	935	-	-	-	-	-	
Critical Hdwy	6.4	6.2	-	-	4.1	-	
Critical Hdwy Stg 1	5.4	-	-	-	-	-	
Critical Hdwy Stg 2	5.4	-	-	_	-	-	
Follow-up Hdwy	3.5	3.3	_	_	2.2	_	
Pot Cap-1 Maneuver	134	522	-	-	981	-	
Stage 1	567	-	_	_	-	_	
Stage 2	385	_	_	_	_	_	
Platoon blocked, %	000		_	_		_	
Mov Cap-1 Maneuver	113	522	_	_	981	_	
Mov Cap-1 Maneuver	113	-	_	_	-	_	
Stage 1	567	_	_		_	_	
Stage 2	325	_	_	_	_	_	
Staye 2	323	_	-	-	-	_	
Approach	WB		NB		SB		
HCM Control Delay, s	15.3		0		1.8		
HCM LOS	С						
Minor Lane/Major Mum		NBT	NDDV	VBLn1V	MDI 50	SBL	
Minor Lane/Major Mymt							J
Capacity (veh/h)		-	-		522	981	
HCM Control Dolov (a)		-	-		0.257		
HCM Control Delay (s)		-	-		14.3	9.3	
		-	-	Ε	В	Α	
HCM Lane LOS HCM 95th %tile Q(veh)			_	0.2	1	0.5	

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Intersection												
Int Delay, s/veh	0.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	0	1	0	15	0	2	0	582	34	8	679	1
Future Vol, veh/h	0	1	0	15	0	2	0	582	34	8	679	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	8	0	0	0	8	15	17	8	0
Mvmt Flow	0	1	0	17	0	2	0	661	39	9	772	1
Major/Minor N	Minor2			Minor1			Major1		N	Major2		
Conflicting Flow All	1473	1491	773	1472	1472	681	773	0	0	700	0	0
Stage 1	791	791	-	681	681	-	-	-	-	-	-	-
Stage 2	682	700	-	791	791	-	-	-	_	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.18	6.5	6.2	4.1	_	_	4.27	_	_
Critical Hdwy Stg 1	6.1	5.5	-	6.18	5.5	-	-	-	_	-	-	-
Critical Hdwy Stg 2	6.1	5.5	_	6.18	5.5	-	_	_	_	_	_	_
Follow-up Hdwy	3.5	4	3.3	3.572	4	3.3	2.2	-	_	2.353	-	-
Pot Cap-1 Maneuver	106	125	402	102	128	454	851	-	_	831	_	-
Stage 1	386	404	-	431	453	-	-	-	-		-	-
Stage 2	443	444	_	374	404	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	104	123	402	100	126	454	851	-	-	831	-	-
Mov Cap-2 Maneuver	104	123	-	100	126	-	-	-	-	-	-	-
Stage 1	386	396	-	431	453	-	-	-	-	-	-	-
Stage 2	441	444	-	366	396	-	-	-	-	-	-	-
ŭ												
Approach	EB			WB			NB			SB		
HCM Control Delay, s	34.5			44.6			0			0.1		
HCM LOS	D			E								
Minor Lane/Major Mvm	t	NBL	NBT	NBR I	EBLn1V	WBLn1	SBL	SBT	SBR			
Capacity (veh/h)		851	-	-	123	110	831	-	-			
HCM Lane V/C Ratio		-	-	-		0.176		-	-			
HCM Control Delay (s)		0	-	-	34.5	44.6	9.4	0	-			
HCM Lane LOS		Α	-	-	D	Е	Α	Α	-			
HCM 95th %tile Q(veh)		0	-	-	0	0.6	0	-	-			

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Intersection													
Int Delay, s/veh 12	250.9												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		र्स	7	ሻ	ĵ.			ર્ન	7		4		
Traffic Vol, veh/h	5	729	349	339	692	2	285	Ö	296	0	0	3	
Future Vol, veh/h	5	729	349	339	692	2	285	0	296	0	0	3	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	90	170	-	-	-	-	125	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92	
Heavy Vehicles, %	0	6	15	5	6	50	15	0	5	0	0	0	
Mvmt Flow	5	792	379	368	752	2	310	0	322	0	0	3	
Major/Minor M	lajor1		ı	Major2		ı	Minor1		ı	Minor2			
Conflicting Flow All	754	0	0	1171	0	0	2293	2292	792	2642	2670	753	
Stage 1	_	_	_		_	_	802	802	-	1489	1489	-	
Stage 2	_	_	_	_	_	_	1491	1490	_	1153	1181	_	
Critical Hdwy	4.1	_	_	4.15	_	_	7.25	6.5	6.25	7.1	6.5	6.2	
Critical Hdwy Stg 1	_	_	_	-	_	_	6.25	5.5	-	6.1	5.5	-	
Critical Hdwy Stg 2	-	-	-	_	-	-	6.25	5.5	-	6.1	5.5	_	
Follow-up Hdwy	2.2	_	_	2.245	_	_	3.635		3.345	3.5	4	3.3	
Pot Cap-1 Maneuver	865	-	-	586	-	-	~ 25	40	384	16	23	413	
Stage 1	-	-	_	-	_	-	359	399	_	156	189	-	
Stage 2	_	_	_	_	_	_	~ 144	189	_	242	266	_	
Platoon blocked, %		-	_		_	-							
Mov Cap-1 Maneuver	865	-	-	586	-	-	~ 12	15	384	1	8	413	
Mov Cap-2 Maneuver	-	-	-	-	-	-	~ 12	15	-	1	8	-	
Stage 1	-	-	-	-	-	-	352	391	-	153	70	-	
Stage 2	_	-	-	-	_	-	~ 53	70	-	38	261	-	
Ŭ													
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0			6.9		\$ !	5800.6			13.8			
HCM LOS				0.0		Ψ,	F			В			
							•						
Minor Lane/Major Mvmt	N	NBLn11	VBI n2	EBL	EBT	EBR	WBL	WBT	WBR :	SBI n1			
Capacity (veh/h)		12	384	865	-	LUIN	586	1101	- 1001	413			
HCM Lane V/C Ratio	9	25.815		0.006	_	_	0.629	_		0.008			
HCM Control Delay (s)		775.7	47.6	9.2	0	-	21		-				
HCM Lane LOS	וויף	F	47.0 E	9.2 A	A	-	C	_	-	13.0 B			
HCM 95th %tile Q(veh)		40.1	7.8	0	-	_	4.4	_	_	0			
		70.1	7.0	U			7.7			U			
Votes													
<ul> <li>Yolume exceeds capa</li> </ul>	acity	\$: De	lay exc	eeds 30	00s -	+: Comp	outation	Not De	fined	*: All r	major v	olume ir	n platoon

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Intersection												
Int Delay, s/veh	2.1											
-		EDT		14/51	MET	W/DD	ND	NET	NDD	05:	057	000
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		_	4		_	4	
Traffic Vol, veh/h	45	960	18	6	992	6	5	0	6	5	1	34
Future Vol, veh/h	45	960	18	6	992	6	5	0	6	5	1	34
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	85	85	85	85	85	85
Heavy Vehicles, %	3	5	0	0	4	0	0	0	0	0	0	15
Mvmt Flow	47	1011	19	6	1044	6	6	0	7	6	1	40
Major/Minor I	Major1		_	Major2			Minor1		_	Minor2		
Conflicting Flow All	1050	0	0	1030	0	0	2195	2177	1021	2177	2183	1047
Stage 1	-	-	-	-	-	-	1115	1115	-	1059	1059	-
Stage 2	_	_	_	_	_	_	1080	1062	_	1118	1124	_
Critical Hdwy	4.13	_	_	4.1	_	_	7.1	6.5	6.2	7.1	6.5	6.35
Critical Hdwy Stg 1	-	_	_	-	_	_	6.1	5.5	- 0.2	6.1	5.5	-
Critical Hdwy Stg 2	_	_	_	_	_	_	6.1	5.5	-	6.1	5.5	_
Follow-up Hdwy	2.227	_	_	2.2	_	_	3.5	4	3.3	3.5	4	3.435
Pot Cap-1 Maneuver	659	_	_	682	_	_	33	47	289	34	47	261
Stage 1	-	<u>-</u>	<u>-</u>	-	<u>-</u>	_	255	286	203	274	304	
Stage 2		_	_	_		_	267	303	_	254	283	_
Platoon blocked, %		_	_		_	_	201	000		207	200	
Mov Cap-1 Maneuver	659		_	682	_	-	23	38	289	28	38	261
Mov Cap-1 Maneuver	- 059		_	-	_	_	23	38	209	28	38	201
Stage 1	_				_	_	212	238	_	228	298	
Stage 2	_	_	_		_	_	220	297		206	236	_
Olaye 2	_	_	_	_	_	_	220	231	_	200	200	_
Annanah	ED			WD			ND			OD		
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.5			0.1			111.4			53.8		
HCM LOS							F			F		
Minor Lane/Major Mvm	ıt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBL <sub>n1</sub>			
Capacity (veh/h)		46	659	-	-	682	-	-	119			
HCM Lane V/C Ratio		0.281	0.072	-	_	0.009	-	_	0.395			
HCM Control Delay (s)		111.4	10.9	0	_	10.3	0	_				
HCM Lane LOS		F	В	A	_	В	A	_	F			
HCM 95th %tile Q(veh)	)	1	0.2	-	_	0	-	-	1.7			
3111 3341 704110 Q(VOII)			J.L			9						

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Intersection												
Int Delay, s/veh	3.4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			सी	1		4	
Traffic Vol, veh/h	49	916	8	3	928	18	1	0	2	8	1	89
Future Vol, veh/h	49	916	8	3	928	18	1	0	2	8	1	89
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	_	None
Storage Length	-	-	-	-	-	-	-	-	90	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	85	85	85	85	85	85
Heavy Vehicles, %	5	5	0	0	6	13	0	0	0	0	0	4
Mvmt Flow	52	964	8	3	977	19	1	0	2	9	1	105
Major/Minor N	Major1			Major2			Minor1		ľ	Minor2		
Conflicting Flow All	996	0	0	972	0	0	2118	2074	968	2066	2069	987
Stage 1	-	_	_	_	-	_	1072	1072	-	993	993	-
Stage 2	-	-	-	-	-	-	1046	1002	_	1073	1076	-
Critical Hdwy	4.15	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.24
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.245	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.336
Pot Cap-1 Maneuver	683	-	-	717	-	-	37	54	311	41	55	298
Stage 1	-	-	-	-	-	-	269	299	-	298	326	-
Stage 2	-	_	-	-	-	-	278	323	-	269	298	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	683	-	-	717	-	-	20	45	311	35	45	298
Mov Cap-2 Maneuver	-	-	-	-	-	-	20	45	-	35	45	-
Stage 1	-	-	-	-	-	-	224	249	-	249	323	-
Stage 2	-	-	-	-	-	-	178	320	-	223	249	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.5			0			76.5			56.3		
HCM LOS							F			F		
Minor Lane/Major Mvm	t t	NBLn11	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1		
Capacity (veh/h)		20	311	683	-	-	717	-	-			
HCM Lane V/C Ratio			0.008		_	_	0.004	_		0.648		
HCM Control Delay (s)		196	16.7	10.7	0	_	10	0	-			
HCM Lane LOS		F	C	В	A	_	В	A	_	F		
HCM 95th %tile Q(veh)		0.2	0	0.2	-	_	0	-	_	3.7		

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Intersection						
Int Delay, s/veh	0.8					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>1</b>			सी	¥	
Traffic Vol, veh/h	897	38	3	938	15	8
Future Vol, veh/h	897	38	3	938	15	8
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storag	e,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	85	85
Heavy Vehicles, %	5	0	0	6	0	0
Mvmt Flow	944	40	3	987	18	9
	• • • • • • • • • • • • • • • • • • • •					· ·
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	984	0	1957	964
Stage 1	-	-	-	-	964	-
Stage 2	-	-	-	-	993	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	710	-	71	312
Stage 1	-	-	-	-	373	-
Stage 2	-	-	-	-	362	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	710	-	70	312
Mov Cap-2 Maneuver		-	-	-	70	-
Stage 1	-	-	-	-	373	-
Stage 2	-	-	-	-	359	-
, and the second						
	- FD		NA/D		ND	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		56.6	
HCM LOS					F	
Minor Lane/Major Mvr	nt 1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		96	-	-	710	-
HCM Lane V/C Ratio		0.282	_		0.004	_
HCM Control Delay (s	3)	56.6	_	-		0
HCM Lane LOS	,	F	_	-	В	A
HCM 95th %tile Q(veh	າ)	1.1	-	-	0	-
	,					

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Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	ĵ.		¥	
Traffic Vol, veh/h	6	888	938	2	2	13
Future Vol. veh/h	6	888	938	2	2	13
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	_	-	-	-	0	-
Veh in Median Storage	e.# -	0	0	_	0	_
Grade, %	-	0	0	_	0	_
Peak Hour Factor	95	95	95	95	85	85
Heavy Vehicles, %	20	6	6	50	50	20
Mymt Flow	6	935	987	2	2	15
IVIVIIIL FIOW	U	300	301		2	10
Major/Minor	Major1	N	Major2	N	Minor2	
Conflicting Flow All	989	0	-	0	1935	988
Stage 1	-	-	-	-	988	-
Stage 2	-	-	-	-	947	-
Critical Hdwy	4.3	_	-	_	6.9	6.4
Critical Hdwy Stg 1	-	_	_	_	5.9	-
Critical Hdwy Stg 2	_	_	-	_	5.9	_
Follow-up Hdwy	2.38	_	_	_	3.95	3.48
Pot Cap-1 Maneuver	632	_	_	_	54	277
Stage 1	-	_	_	_	296	-
Stage 2	_		_	_	310	_
Platoon blocked, %	_	_	_	<u>-</u>	310	_
	632	-	_		53	277
Mov Cap-1 Maneuver		-	-	-		
Mov Cap-2 Maneuver	-	-	-	-	53	-
Stage 1	-	-	-	-	290	-
Stage 2	-	-	-	-	310	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		27.6	
HCM LOS	0.1		U		D	
TOW LOG					U	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		632	-	-	-	177
HCM Lane V/C Ratio		0.01	-	-	-	0.1
HCM Control Delay (s)	)	10.8	0	-	-	27.6
HCM Lane LOS		В	Α	-	-	D
HCM 95th %tile Q(veh	)	0	-	-	-	0.3

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Intersection						
Int Delay, s/veh	1.5					
		ГРТ	WDT	WDD	CDI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		र्स	ĵ.		Y	
Traffic Vol, veh/h	14	869	865	1	6	80
Future Vol, veh/h	14	869	865	1	6	80
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	85	85
Heavy Vehicles, %	0	6	6	0	0	5
Mvmt Flow	15	915	911	1	7	94
manic i ion	10	010	UII	ľ	1	U-7
Major/Minor N	1ajor1	<u> </u>	/lajor2	<u> </u>	Minor2	
Conflicting Flow All	912	0	-	0	1857	912
Stage 1	-	-	-	-	912	-
Stage 2	-	-	-	-	945	-
Critical Hdwy	4.1	_	_	-	6.4	6.25
Critical Hdwy Stg 1	-	_	_	_	5.4	-
Critical Hdwy Stg 2	_	_	_	_	5.4	_
Follow-up Hdwy	2.2	_	<u>-</u>	<u>-</u>	3.5	3.345
Pot Cap-1 Maneuver	755	_	_	_	82	328
Stage 1	-		_	_	395	J20 -
Stage 1	-	-			381	
	-		-	-	301	-
Platoon blocked, %	755	-	-	-	70	200
Mov Cap-1 Maneuver	755	-	-	-	79	328
Mov Cap-2 Maneuver	-	-	-	-	79	-
Stage 1	-	-	-	-	379	-
Stage 2	-	-	-	-	381	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.2		0		26.2	
HCM LOS					D	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		755	-	-	-	269
HCM Lane V/C Ratio		0.02	_	<u>-</u>		0.376
HCM Control Delay (s)		9.9	0		-	
HCM Lane LOS						
		A	Α	-	-	D
HCM 95th %tile Q(veh)		0.1	-	-	-	1.7

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Intersection						
Int Delay, s/veh	1.1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		<b>1</b>			4
Traffic Vol, veh/h	6	3	13	2	3	70
Future Vol, veh/h	6	3	13	2	3	70
Conflicting Peds, #/hr	0	0	0	0	0	0
			Free	Free	Free	Free
Sign Control RT Channelized	Stop	Stop				
	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage,		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	60	0	0	50	0	5
Mvmt Flow	7	4	15	2	4	82
Majau/Minau	lin a 4		1-1-1		Asia nO	
	linor1		Major1		Major2	
Conflicting Flow All	106	16	0	0	17	0
Stage 1	16	-	-	-	-	-
Stage 2	90	-	-	-	-	-
Critical Hdwy	7	6.2	-	-	4.1	-
Critical Hdwy Stg 1	6	-	-	-	-	-
Critical Hdwy Stg 2	6	-	-	-	-	-
Follow-up Hdwy	4.04	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	769	1069	_	-	1613	-
Stage 1	875	-	_	_	_	_
Stage 2	806	_	_	_	_	_
Platoon blocked, %	000		_	_		_
Mov Cap-1 Maneuver	767	1069	_		1613	_
	767			-		
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	875	-	-	-	-	-
Stage 2	804	-	-	-	-	-
Approach	WB		NB		SB	
	9.3		0		0.3	
HCM Control Delay, s			U		0.5	
HCM LOS	Α					
Minor Lane/Major Mvmt		NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	_		1613	-
HCM Lane V/C Ratio		_		0.013		_
HCM Control Delay (s)		_		9.3	7.2	0
HCM Lane LOS		-		9.5 A	Α.Δ	A
HCM 95th %tile Q(veh)		_	_	0	0	- A
HOW SOUL WILLE CLASSING		-		U	U	-

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Intersection						
Int Delay, s/veh	3.5					
		EDD	WDI	WDT	NDI	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>}</b>		74	<del>વ</del>	Y	.1.1
Traffic Vol, veh/h	22	2	71	74	1	11
Future Vol, veh/h	22	2	71	74	1	11
Conflicting Peds, #/hr	_ 0	0	_ 0	_ 0	2	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	12	50	2	12	0	11
Mvmt Flow	26	2	84	87	1	13
M - ' - / M ' N /	1.1.4				r	
	lajor1		Major2		/linor1	_
Conflicting Flow All	0	0	28	0	284	27
Stage 1	-	-	-	-	27	-
Stage 2	-	-	-	-	257	-
Critical Hdwy	-	-	4.12	-	6.4	6.31
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	_	-	5.4	-
Follow-up Hdwy	-	-	2.218	-	3.5	3.399
Pot Cap-1 Maneuver	-	-	1585	-	710	1023
Stage 1	-	-	-	-	1001	-
Stage 2	-	-	_	-	791	-
Platoon blocked, %	-	_		_		
Mov Cap-1 Maneuver	_	_	1585	_	669	1023
Mov Cap-2 Maneuver	_	_		_	669	
Stage 1	_				1001	_
Stage 2	_	_			745	-
Slaye 2	-	-	-	-	740	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		3.6		8.7	
HCM LOS					Α	
		IDI 4	EST	ED5	14/51	MACT
Minor Lane/Major Mvmt	1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		980	-		1585	-
HCM Lane V/C Ratio		0.014	-	-	0.053	-
HCM Control Delay (s)		8.7	-	-		0
HCM Lane LOS		Α	-	-	Α	Α
HCM 95th %tile Q(veh)		0	-	-	0.2	-

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Intersection						
Int Delay, s/veh	0					
	EDI	EDT	WDT	WDD	CDI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		ની	ĵ,		¥	
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	, # -	0	0	-	0	-
Grade, %	- -	0	0	_	0	_
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	0	0	0	0	0
INIVITIL FIOW	U	U	U	U	U	U
Major/Minor	Major1	N	//ajor2	N	Minor2	
Conflicting Flow All	1	0	-	0	1	1
Stage 1	<u> </u>	-		-	1	<u>'</u>
			-		•	
Stage 2	-	-	-	-	0	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1635	-	-	-	1027	1090
Stage 1	-	-	-	-	1028	-
Stage 2	-	-	-	-	-	-
Platoon blocked, %		_	_	_		
Mov Cap-1 Maneuver	1635	_	_	_	1027	1090
Mov Cap-1 Maneuver	-	<u>-</u>	_	<u>-</u>	1027	-
		-			1027	
Stage 1	-		-	-	1020	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	U		U		A	
HOW LOS					А	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1635		-	_	_
HCM Lane V/C Ratio		-	_	<u>-</u>	_	_
HCM Control Delay (s)		0				0
HOW CONTROL DEIAY (S)			-	-		
		Λ				Λ.
HCM Lane LOS HCM 95th %tile Q(veh		A 0	-	-	-	A -

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Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	**	אוטוג	<b>1</b>	אופא	ODL	<u>લ</u>
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	_	-
Veh in Median Storage,		_	0	_	-	0
Grade, %	0	-	0	-	_	0
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	0	0	0	0	0
WWW.CT IOW	J	J		J		
		_		_		
	/linor1		Major1		Major2	
Conflicting Flow All	1	0	0	0	0	0
Stage 1	0	-	-	-	-	-
Stage 2	1	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	1027	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1028	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	1027	-	-	-	-	-
Mov Cap-2 Maneuver	1027	-	-	-	-	-
Stage 1	_	-	-	-	-	-
Stage 2	1028	-	-	_	-	-
3 U =						
A	WD		ND		O.D.	
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	Α					
Minor Lane/Major Mvm	l	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		_	_	_	_	_
HCM Lane V/C Ratio		_	_	_	_	_
HCM Control Delay (s)		_	_	0	0	_
HCM Lane LOS		_	_	A	A	_
HCM 95th %tile Q(veh)		_	_	-	-	_
704 704 4(7011)						

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Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	EDL			WDK		SBR
Lane Configurations	0	<u>ન</u> ્	<b>₽</b>	0	¥	0
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0
Mymt Flow	0	0	0	0	0	0
IVIVIII( I IOW	U	U	U	U	U	U
Major/Minor I	Major1	N	Major2	N	/linor2	
Conflicting Flow All	1	0	_	0	1	1
Stage 1	_	_	_	_	1	_
Stage 2	_	_	_	_	0	_
Critical Hdwy	4.1	_	_	_	6.4	6.2
Critical Hdwy Stg 1	4.1	_		_	5.4	0.2
			-			
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1635	-	-	-	1027	1090
Stage 1	-	-	-	-	1028	-
Stage 2	-	-	-	-	-	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1635	-	-	-	1027	1090
Mov Cap-2 Maneuver	-	-	-	_	1027	-
Stage 1	_	_	_	_	1028	_
Stage 2	_	_	_	_	-	_
Olago Z						
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS					Α	
Minor Lane/Major Mvm	t	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1635	-	-	-	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		0	-	-	-	0
HCM Lane LOS		A	-	-	_	A
HCM 95th %tile Q(veh)		0	_	_	_	-

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Intersection									
Int Delay, s/veh	36								
Movement	WBL	WBR	NBT	NBR	SBL	SBT			
Lane Configurations	ሻ	7	<b>↑</b>	7	ሻ	<b>†</b>			
Traffic Vol, veh/h	167	267	190	196	315	204			
Future Vol, veh/h	167	267	190	196	315	204			
Conflicting Peds, #/hr	0	0	0	0	0	0			
Sign Control	Stop	Stop	Free	Free	Free	Free			
RT Channelized	-	None	-	None	-	None			
Storage Length	0	0	_	150	170	-			
Veh in Median Storage		-	0	-	-	0			
Grade, %	, # 0 0	-	0			0			
Peak Hour Factor	88	88	88	88	88	88			
Heavy Vehicles, %	9	14	4	4	0	7			
Mvmt Flow	190	303	216	223	358	232			
Major/Minor	Minor1	ľ	Major1	ľ	Major2				
Conflicting Flow All	1164	216	0	0	439	0			
Stage 1	216	-	-	-	-	_			
Stage 2	948	-	-	-	_	-			
Critical Hdwy	6.49	6.34	-	-	4.1	_			
Critical Hdwy Stg 1	5.49	-	_	_	_	_			
Critical Hdwy Stg 2	5.49	_	_	_	_	_			
Follow-up Hdwy	3.581	3.426	_	_	2.2	_			
Pot Cap-1 Maneuver	208	795	_	-	1132	_			
Stage 1	804	-	_	_	- 1102	_			
Stage 2	366	_	_	_	_	_			
Platoon blocked, %	300	_	_	_	_	_			
Mov Cap-1 Maneuver	~ 1/1	795		_	1132				
		195		_	1132	-			
Mov Cap-2 Maneuver	804		-	-					
Stage 1	250	-	-	-	-	-			
Stage 2	250	-	-	-	-	-			
Approach	WB		NB		SB				
HCM Control Delay, s	104.1		0		5.9				
HCM LOS	F								
Minar Lana/Maiar Musa		NDT	NDDV	VDI 4V	VDI0	CDI	CDT		
Minor Lane/Major Mvm	IL	NBT	NDKV	VBLn1V		SBL	SBT		
Capacity (veh/h)		-	-	142 1.336	795	1132	-		
HCM Control Doloy (a)		-	-				-		
HCM Control Delay (s)		-	-	250.9	12.3	9.6	-		
HCM Lane LOS		-	-	F	В	A	-		
HCM 95th %tile Q(veh)	)	-	-	11.9	1.8	1.4	-		
Notes									
~: Volume exceeds cap	oacity	\$: De	lav exc	eeds 30	00s	+: Comr	outation Not Defined	*: All major volume in platoon	
2.2		-, _ v	,					a	

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Intersection						
Int Delay, s/veh	2.7					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	ኘ	7	<b>↑</b>	7	ሻ	<u>□ □ □ □</u>
Traffic Vol, veh/h	9	132	459	11	149	520
Future Vol, veh/h	9	132	459	11	149	520
Conflicting Peds, #/hr	0	0	0	0	0	0_0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	100	-	100	100	-
Veh in Median Storage,		-	0	-	-	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	0	0	0
Mymt Flow	10	150	522	13	169	591
WWIICTIOW	10	100	ULL	10	100	001
Major/Minor N	/linor1		//ajor1	N	Major2	
Conflicting Flow All	1451	522	0	0	535	0
Stage 1	522	-	-	-	-	-
Stage 2	929	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	145	559	-	-	1043	-
Stage 1	599	-	-	-	-	-
Stage 2	388	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	122	559	-	-	1043	-
Mov Cap-2 Maneuver	122	-	-	-	-	-
Stage 1	599	-	_	-	_	-
Stage 2	325	_	_	_	-	_
olago 2	020					
Approach	WB		NB		SB	
HCM Control Delay, s	15.3		0		2	
HCM LOS	С					
Minor Lane/Major Mvmt	1	NBT	NBRV	VBLn1V	VBI n2	SBL
Capacity (veh/h)		-	-	122	559	1043
HCM Lane V/C Ratio		<u>-</u>		0.084		
HCM Control Delay (s)				37.2	13.8	9.1
HCM Lane LOS		_		57.Z	13.0 B	9.1 A
HCM 95th %tile Q(veh)				0.3	1.1	0.6
Holvi Jour Joule Q(Veri)		_	_	0.0	1.1	0.0

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Intersection												
Int Delay, s/veh	0.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	0	2	0	14	1	2	0	574	15	2	653	1
Future Vol, veh/h	0	2	0	14	1	2	0	574	15	2	653	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	_	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	_	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	0	50	0	9	100	0	0	6	8	0	8	0
Mvmt Flow	0	2	0	16	1	2	0	652	17	2	742	1
Major/Minor	Minor2			Minor1			Major1		N	//ajor2		
Conflicting Flow All	1409	1416	743	1409	1408	661	743	0	0	669	0	0
Stage 1	747	747	-	661	661	-	170			-	-	J
Stage 2	662	669	<u> </u>	748	747	_	_	_	_		_	
Critical Hdwy	7.1	7	6.2	7.19	7.5	6.2	4.1	-	_	4.1	_	-
Critical Hdwy Stg 1	6.1	6	0.2	6.19	6.5	0.2	7.1	_	_	4.1	_	
Critical Hdwy Stg 2	6.1	6	-	6.19	6.5	-		-	-	-	-	-
Follow-up Hdwy	3.5	4.45	3.3	3.581	4.9	3.3	2.2	_	-	2.2	-	
Pot Cap-1 Maneuver	117	109	418	112	88	466	873	-		931	_	-
•	408	357		440	338	400	013	-	-	301	-	-
Stage 1	454	390	-	394	304		-	_	-	-	-	-
Stage 2	454	390	-	J94	304	-	-	-	-	-	-	-
Platoon blocked, %	115	109	418	110	00	466	873	-	-	931	-	-
Mov Cap-1 Maneuver					88 88		0/3	-	-		-	-
Mov Cap-2 Maneuver	115	109	-	110		-	-	-	-	-	-	-
Stage 1	408	356	-	440	338	-	-	-	-	-	-	-
Stage 2	450	390	-	390	303	-	<del>-</del>	-	-	-	-	-
				,								
Approach	EB			WB			NB			SB		
HCM Control Delay, s	38.7			41			0			0		
HCM LOS	E			E								
Minor Lane/Major Mvm	ıt	NBL	NBT		EBLn1V		SBL	SBT	SBR			
Capacity (veh/h)		873	-	-	109	119	931	-	-			
HCM Lane V/C Ratio		-	-	-		0.162		-	-			
HCM Control Delay (s)		0	-	-	38.7	41	8.9	0	-			
HCM Lane LOS		Α	-	-	Е	Е	Α	Α	-			
HCM 95th %tile Q(veh)		0	-	-	0.1	0.6	0	-	-			

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Intersection													
Int Delay, s/veh	417.1												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4	7	ኘ	\$	11511	1100	4	7	UDL	4	OBIT	
Traffic Vol, veh/h	9		441	225	478	2	361	1	210	0	0	0	
Future Vol, veh/h	9	490	441	225	478	2	361	1	210	0	0	0	
Conflicting Peds, #/hr	0		0	0	0	0	0	0	0	0	0	0	
Sign Control	Free		Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-		None	-	-	None	-	-	None	- -	-	None	
Storage Length	_		90	170	_	-	_	_	125	_	_	-	
eh in Median Storage/		_	-	-	0	_	_	0	-	_	0	_	
Grade, %	-, π		_	<u>-</u>	0	<u>-</u>	_	0	_	<u>-</u>	0	<u>-</u>	
Peak Hour Factor	92		92	92	92	92	92	92	92	92	92	92	
leavy Vehicles, %	43		5	9	13	0	5	0	6	0	0	0	
Ivmt Flow	10		479	245	520	2	392	1	228	0	0	0	
AMILL LIOM	10	555	4/9	243	320		392	ı	220	U	U	U	
Major/Minor	Major1			Major2		N	/linor1			Minor2			
	522	0	0	1012	0	0	1564	1565	533	1918	2043	521	
Conflicting Flow All													
Stage 1	-	-	-	-	-	-	553	553	-	1011	1011	-	
Stage 2	4.50	-	-	- 4.40	-	-	1011	1012	-	907	1032	-	
ritical Hdwy	4.53	-	-	4.19	-	-	7.15	6.5	6.26	7.1	6.5	6.2	
ritical Hdwy Stg 1	-	-	-	-	-	-	6.15	5.5	-	6.1	5.5	-	
ritical Hdwy Stg 2	-	-	-		-	-	6.15	5.5	-	6.1	5.5	-	
ollow-up Hdwy	2.587	-	-	2.281	-	-	3.545		3.354	3.5	4	3.3	
ot Cap-1 Maneuver	865	-	-	658	-	-	~ 89	113	539	52	57	559	
Stage 1	-	-	-	-	-	-	512	518	-	291	320	-	
Stage 2	-	-	-	-	-	-	~ 285	319	-	333	313	-	
latoon blocked, %		-	-		-	-							
lov Cap-1 Maneuver	865	-	-	658	-	-	~ 62	69	539	21	35	559	
lov Cap-2 Maneuver	-	-	-	-	-	-	~ 62	69	-	21	35	-	
Stage 1	-	-	-	-	-	-	497	502	-	282	201	-	
Stage 2	-	-	-	-	-	-	~ 179	200	-	186	304	-	
Approach	EB			WB			NB			SB			
ICM Control Delay, s	0.1			4.4		\$	1611			0			
HCM LOS							F			Α			
linor Lane/Major Mvm	nt	NBLn11	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1			
Capacity (veh/h)		62	539	865	-	-	658	-	-	-			
ICM Lane V/C Ratio		6.346	0.423	0.011	-	-	0.372	-	-	-			
ICM Control Delay (s)		\$ 2536	16.5	9.2	0	-	13.7	-	-	0			
ICM Lane LOS		F	С	Α	A	-	В	-	-	A			
ICM 95th %tile Q(veh)	)	44.7	2.1	0	-	-	1.7	-	-	-			
lotes													
: Volume exceeds cap	nacity	\$· De	lav exc	eeds 30	)Os -	+: Comp	utation	Not De	fined	*· All ı	maior v	olume ir	n platoon
. Volumo oxoceus ca	paoity	ψ. De	nay GAU	ccus sc	700	· . Comp	JululiUII	יייי דיייי	micu	. 🗥 🗆	najor v	Ciuiiie II	ριαισση

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Intersection												
Int Delay, s/veh	1.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	23	650	26	17	643	10	16	0	14	6	5	24
Future Vol, veh/h	23	650	26	17	643	10	16	0	14	6	5	24
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	_	-	None	-	_	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	_	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	5	5	0	0	6	13	0	0	0	0	0	4
Mvmt Flow	24	684	27	18	677	11	17	0	15	6	5	25
Major/Minor I	Major1		ľ	Major2			Minor1		N	/linor2		
Conflicting Flow All	688	0	0	711	0	0	1480	1470	698	1472	1478	683
Stage 1	-	-	_	_	_	-	746	746	-	719	719	-
Stage 2	_	-	_	_	_	-	734	724	-	753	759	-
Critical Hdwy	4.15	_	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.24
Critical Hdwy Stg 1		-	_	-	_	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	_	_	-	_	_	-	6.1	5.5	_	6.1	5.5	-
Follow-up Hdwy	2.245	-	_	2.2	_	-	3.5	4	3.3	3.5	4	3.336
Pot Cap-1 Maneuver	892	_	-	898	-	-	105	129	444	106	127	446
Stage 1	-	-	_	-	_	-	409	424	-	423	436	-
Stage 2	-	-	-	-	-	-	415	433	-	405	418	-
Platoon blocked, %		-	_		_	-						
Mov Cap-1 Maneuver	892	-	_	898	_	_	90	119	444	97	117	446
Mov Cap-2 Maneuver	-	-	-	-	-	-	90	119	-	97	117	-
Stage 1	_	-	_	-	_	_	391	405	-	404	422	-
Stage 2	-	-	-	_	_	-	374	419	-	374	399	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.3			0.2			37.2			24.5		
HCM LOS							E			C		
							_					
Minor Lane/Major Mvm	nt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBLn1			
Capacity (veh/h)		143	892	-	-	898	_	_	221			
HCM Lane V/C Ratio			0.027	-	-	0.02	-	-	0.167			
HCM Control Delay (s)		37.2	9.1	0	-	9.1	0	-	24.5			
HCM Lane LOS		E	A	A	-	A	A	-	С			
HCM 95th %tile Q(veh)	)	0.8	0.1	-	-	0.1	-	-	0.6			
77												

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Intersection												
Int Delay, s/veh	1.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			र्स	7		4	
Traffic Vol, veh/h	39	585	52	29	620	15	3	0	<u>.</u> 1	6	0	47
Future Vol, veh/h	39	585	52	29	620	15	3	0	1	6	0	47
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	_	-	90	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	_	0	-	-	0	-
Grade, %	_	0	-	-	0	-	_	0	_	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	10	7	2	4	13	17	33	0	0	20	0	11
Mvmt Flow	41	616	55	31	653	16	3	0	1	6	0	49
Major/Minor M	ajor1		1	Major2			Minor1		N	/linor2		
Conflicting Flow All	669	0	0	671	0	0	1474	1457	644	1449	1476	661
Stage 1	-	-	-	-	_	-	726	726	-	723	723	-
Stage 2	_	-	_	-	_	-	748	731	-	726	753	_
Critical Hdwy	4.2	-	_	4.14	_	_	7.43	6.5	6.2	7.3	6.5	6.31
Critical Hdwy Stg 1	-	-	_	-	_	-	6.43	5.5	-	6.3	5.5	-
Critical Hdwy Stg 2	_	_	_	_	_	-	6.43	5.5	-	6.3	5.5	-
Follow-up Hdwy	2.29	-	-	2.236	_	-	3.797	4	3.3	3.68	4	3.399
Pot Cap-1 Maneuver	884	_	_	910	_	_	89	131	476	99	127	447
Stage 1	-	_	_	-	_	_	371	433	-	390	434	
Stage 2	-	_	_	_	_	_	360	430	-	389	420	-
Platoon blocked, %		_	_		_	_				- 000	,	
Mov Cap-1 Maneuver	884	_	_	910	_	_	72	115	476	89	111	447
Mov Cap-2 Maneuver	-	_	_	-	_	_	72	115	-	89	111	-
Stage 1	_	_	_	_	_	_	343	401	_	361	411	_
Stage 2	_	_	-	-	_	_	303	407	_	359	389	_
5.kg5 2							300	.0,		500	300	
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.5			0.4			46.1			19.3		
HCM LOS	0.0			J. 1			E			C		
Minor Lane/Major Mvmt		NBLn1 I	VBLn2	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1		
Capacity (veh/h)		72	476	884			910			307		
HCM Lane V/C Ratio			0.002		_	_	0.034	_	_	0.182		
HCM Control Delay (s)		57.3	12.6	9.3	0	_	9.1	0	-	19.3		
HCM Lane LOS		57.5	12.0 B	3.5 A	A	_	Α	A	_	C		
HCM 95th %tile Q(veh)		0.1	0	0.1	-	_	0.1	-		0.7		
HOM JOHN JUHO Q(VOII)		0.1		U. 1			U. 1			0.1		

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Intersection						
Int Delay, s/veh	0.7					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
		EDK	WDL			NDK
Lane Configurations	<b>-</b>	10	1	<b>€</b>	<b>\</b>	0
Traffic Vol, veh/h	574	18	1	640	28	2
Future Vol, veh/h	574	18	1	640	28	2
Conflicting Peds, #/hr	0	_ 0	0	_ 0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	8	0	0	13	9	0
Mvmt Flow	604	19	1	674	29	2
Major/Minor M	laiar1		/aiar0	N	Minor1	
	1ajor1		Major2		Minor1	C4.4
Conflicting Flow All	0	0	623	0	1290	614
Stage 1	-	-	-	-	614	-
Stage 2	-	-	-	-	676	-
Critical Hdwy	-	-	4.1	-	6.49	6.2
Critical Hdwy Stg 1	-	-	-	-	5.49	-
Critical Hdwy Stg 2	-	-	-	-	5.49	-
Follow-up Hdwy	-	-	2.2	-	3.581	3.3
Pot Cap-1 Maneuver	-	-	968	-	174	496
Stage 1	-	-	-	-	527	-
Stage 2	_	-	_	-	493	-
Platoon blocked, %	_	_		_		
Mov Cap-1 Maneuver	_	_	968	_	174	496
Mov Cap-2 Maneuver	_	<u>-</u>	500	<u>-</u>	174	-
Stage 1			_	_	527	_
	-	-	-	-	492	
Stage 2	-	-	-	-	492	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		28.9	
HCM LOS	-				D	
110111 200						
N.		UDI 4	EDT	<b>EDD</b>	MAIDI	MOT
Minor Lane/Major Mvmt		NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		182	-	-	000	-
HCM Lane V/C Ratio		0.174	-	-	0.001	-
HCM Control Delay (s)		28.9	-	-	8.7	0
HCM Lane LOS		D	-	-	Α	Α
HCM 95th %tile Q(veh)		0.6	-	-	0	-

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Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	<b>1</b>		<b>Y</b>	
Traffic Vol, veh/h	8	559	629	1	0	10
Future Vol, veh/h	8	559	629	1	0	10
Conflicting Peds, #/hr	0	0	023	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	
Storage Length	-	-	_	-	0	-
Veh in Median Storage	e.# -	0	0	_	0	_
Grade, %	-	0	0	_	0	_
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	17	8	13	0	0	12
Mvmt Flow	8	588	662	1	0	11
IVIVIIIL FIOW	Ŏ	OÕÕ	002		U	П
Major/Minor	Major1	N	Major2	N	Minor2	
Conflicting Flow All	663	0	-	0	1267	663
Stage 1	-	-	-	-	663	-
Stage 2	-	_	-	-	604	-
Critical Hdwy	4.27	_	_	_	6.4	6.32
Critical Hdwy Stg 1	-	_	_	_	5.4	-
Critical Hdwy Stg 2	_	_	-	_	5.4	_
Follow-up Hdwy	2.353	_	_	_		3.408
Pot Cap-1 Maneuver	859	_	_	_	188	444
Stage 1	- 555	_		_	516	-
Stage 2	_			_	550	_
Platoon blocked, %	_	-		<u>-</u>	550	-
	859	-	-		10F	444
Mov Cap-1 Maneuver		-	-	-	185	
Mov Cap-2 Maneuver	-	-	-	-	185	-
Stage 1	-	-	-	-	509	-
Stage 2	-	-	-	-	550	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		13.3	
•	0.1		U			
HCM LOS					В	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		859	_	_	-	444
HCM Lane V/C Ratio		0.01	-	-	_	0.024
HCM Control Delay (s)		9.2	0	_		13.3
HCM Lane LOS		A	A	_	_	В
HCM 95th %tile Q(veh	)	0		_	_	0.1
TOM Jour Julio Q(Von	1					0.1

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Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	<b>1</b>		¥	
Traffic Vol, veh/h	17	549	608	2	1	9
Future Vol, veh/h	17	549	608	2	1	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	
Storage Length	_	-	_	-	0	-
Veh in Median Storage	e.# -	0	0	_	0	_
Grade, %	-	0	0	_	0	_
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	29	6	12	50	0	14
Mymt Flow	18	578	640	2	1	9
IVIVIIIL I IUW	10	310	040			3
Major/Minor	Major1	<u> </u>	Major2	1	Minor2	
Conflicting Flow All	642	0	-	0	1255	641
Stage 1	-	-	-	-	641	-
Stage 2	-	-	-	-	614	-
Critical Hdwy	4.39	-	-	-	6.4	6.34
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	_	5.4	_
Follow-up Hdwy	2.461	-	_	-		3.426
Pot Cap-1 Maneuver	826	-	_	_	191	454
Stage 1	- 323	_	_	_	528	
Stage 2	_	_	_	_	544	_
Platoon blocked, %				_	077	
Mov Cap-1 Maneuver	826	-	-		185	454
Mov Cap-1 Maneuver	020	-	-	-	185	404
Stage 1		-	-		511	
	-	-		-		-
Stage 2	-	-	-	-	544	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.3		0		14.3	
HCM LOS	- 0.0				В	
				14/5-	14/5-	001
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR :	
Capacity (veh/h)		826	-	-	-	
HCM Lane V/C Ratio		0.022	-	-		0.027
HCM Control Delay (s	)	9.5	0	-	-	14.3
HCM Lane LOS		Α	Α	-	-	В
HCM 95th %tile Q(veh	1)	0.1	-	-	-	0.1

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Intersection						
Int Delay, s/veh	1					
	WDL	WDD	NDT	NDD	CDI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥	0	<b>^</b>	2	0	र्च
Traffic Vol, veh/h	0	2	16	3	2	8
Future Vol, veh/h	0	2	16	3	2	8
Conflicting Peds, #/hr	0	0	0	_ 0	0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage,		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	23	33	0	0
Mvmt Flow	0	2	19	4	2	9
Major/Minor N	/linor1	1	/lajor1	1	Major2	
		21			23	0
Conflicting Flow All	34		0	0		0
Stage 1	21	-	-	-	-	-
Stage 2	13	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	984	1062	-	-	1605	-
Stage 1	1007	-	-	-	-	-
Stage 2	1015	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	983	1062	-	-	1605	-
Mov Cap-2 Maneuver	983	-	-	-	-	-
Stage 1	1007	-	-	-	-	-
Stage 2	1014	-	-	-	-	-
Annroach	MD		ND		CD	
Approach	WB		NB		SB	
HCM Control Delay, s	8.4		0		1.4	
HCM LOS	Α					
Minor Lane/Major Mvmt		NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-		1062	1605	
HCM Lane V/C Ratio		_		0.002		_
HCM Control Delay (s)		_	_		7.2	0
HCM Lane LOS		_	_	A	A	A
HCM 95th %tile Q(veh)		_	_	0	0	-

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Intersection						
Int Delay, s/veh	2.3					
		EDD	WDI	WDT	ND	NDD
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	4			ની	¥	
Traffic Vol, veh/h	29	1	3	23	1	15
Future Vol, veh/h	29	1	3	23	1	15
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	22	0	33	11	0	33
Mvmt Flow	34	1	4	27	1	18
Major/Minor Ma	oior1		Majara		linar1	
	ajor1		Major2		Minor1	25
Conflicting Flow All	0	0	35	0	70	35
Stage 1	-	-	-	-	35	-
Stage 2	-	-	-	-	35	-
Critical Hdwy	-	-	4.43	-	6.4	6.53
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.497	-		3.597
Pot Cap-1 Maneuver	-	-	1398	-	939	956
Stage 1	-	-	-	-	993	-
Stage 2	-	-	-	-	993	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1398	-	936	956
Mov Cap-2 Maneuver	-	-	-	-	936	-
Stage 1	-	-	_	-	993	_
Stage 2	-	_	_	-	990	-
Ammanah	ED		\A/D		ND	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.9		8.8	
HCM LOS					Α	
Minor Lane/Major Mvmt	N	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		955			1398	_
HCM Lane V/C Ratio		0.02	_		0.003	_
HCM Control Delay (s)		8.8	_	_	7.6	0
HCM Lane LOS		Α	_	_	Α.	A
HCM 95th %tile Q(veh)		0.1	_		0	-
HOW JOHN JOHN Q(VEII)		0.1			U	

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Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	EDL			WDK		SBR
Lane Configurations	0	<u>ન</u> ્	<b>₽</b>	0	¥	0
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	, # -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0
Mymt Flow	0	0	0	0	0	0
IVIVIII( I IOVV	U	U	U	U	U	U
Major/Minor I	Major1	N	Major2	N	/linor2	
Conflicting Flow All	1	0	_	0	1	1
Stage 1	_	_	_	_	1	_
Stage 2	_	_	_	_	0	_
Critical Hdwy	4.1	_	_	_	6.4	6.2
Critical Hdwy Stg 1	4.1	_		_	5.4	0.2
			-			
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1635	-	-	-	1027	1090
Stage 1	-	-	-	-	1028	-
Stage 2	-	-	-	-	-	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1635	-	-	-	1027	1090
Mov Cap-2 Maneuver	-	-	-	_	1027	-
Stage 1	_	_	_	_	1028	_
Stage 2	_	_	_	_	-	_
Olage 2						
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS					Α	
Minor Lane/Major Mvm	ıt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1635	-	-	-	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		0	-	-	-	0
HCM Lane LOS		A	-	-	_	A
HCM 95th %tile Q(veh)	١	0	_	_	_	-
TOWN COURT FOUND CONTO						

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Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	₩.	וטייי	1\D1	אטוו	ODL	<u>- 351</u>
Traffic Vol, veh/h	<b>T</b>	0	0	0	0	<b>~ 6</b>
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop -	None	-	None	-	None
Storage Length	0	None -	_	NOHE -	-	NONE -
Veh in Median Storage			0	-	-	0
		-				
Grade, %	0	- 05	0	-	-	0
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	0	0	0	0	0
Major/Minor I	Minor1	N	/lajor1	٨	/lajor2	
Conflicting Flow All	1	0	0	0	0	0
Stage 1	0	-	-	-	-	-
•	1	-	-		_	-
Stage 2		6.0		-		
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	1027	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1028	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	1027	-	-	-	-	-
Mov Cap-2 Maneuver	1027	_	_	_	_	-
Stage 1	-	_	_	_	_	_
Stage 2	1028		_	_		
Glaye Z	1020	_	_	_	_	-
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	A					
Minor Lane/Major Mvm	t	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	-	-	-
HCM Lane V/C Ratio		-	-	-	_	-
HCM Control Delay (s)		-	-	0	0	-
HCM Lane LOS		-	_	A	A	-
HCM 95th %tile Q(veh)		-	-	-	-	-

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Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL			WDIX	₩.	JUIN
Traffic Vol, veh/h	0	<b>€</b> 1 0	<b>1</b>	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	_ 0	0	0	_ 0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	0	0	0	0	0
		-				
		_				
	Major1		Major2		Minor2	
Conflicting Flow All	1	0	-	0	1	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	0	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	_	-	-	-	5.4	-
Critical Hdwy Stg 2	_	_	_	_	5.4	_
Follow-up Hdwy	2.2	_	_	_	3.5	3.3
Pot Cap-1 Maneuver	1635	_	_	-	1027	1090
Stage 1	1000		_	_	1027	1030
		-				
Stage 2	-	-	-	-	-	-
Platoon blocked, %	1005	_	-	_	4007	1000
Mov Cap-1 Maneuver	1635	-	-	-	1027	1090
Mov Cap-2 Maneuver	-	-	-	-	1027	-
Stage 1	-	-	-	-	1028	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
					0	
HCM Control Delay, s	0		0			
HCM LOS					Α	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1635	_	_	_	_
HCM Lane V/C Ratio		-	_	_	_	_
HCM Control Delay (s)		0		_	_	0
HCM Lane LOS			_	_	-	A
HCM 95th %tile Q(veh)	\	A 0	-	-	-	
						_

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▼ Site: 101 [Powell Butte-126 Background Transight PM (Site)

Folder: PM Peak)]

New Site

Site Category: (None)

Roundabout

Vehi	cle Mo	vemen	Perfori	mance										
Mov ID	Turn	INF VOLU [ Total veh/h	PUT JMES HV] %	DEM/ FLO [ Total veh/h		Deg. Satn v/c		Level of Service		ACK OF EUE Dist ] ft	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed mph
South	n: Powe	ell Butte l		ven/m	70	V/C	Sec		ven	IL				Шрп
3	L2	285	15.0	310	15.0	0.544	16.3	LOS C	3.0	84.2	0.73	0.90	1.26	27.8
8	T1	1	0.0	1	0.0	0.544	15.4	LOS C	3.0	84.2	0.73	0.90	1.26	28.1
18	R2	296	5.0	322	5.0	0.511	14.1	LOS B	2.9	76.5	0.74	0.87	1.16	29.9
Appr	oach	582	9.9	633	9.9	0.544	15.2	LOS C	3.0	84.2	0.74	0.89	1.21	28.8
East:	OR126	3												
1	L2	339	5.0	368	5.0	1.246	137.1	LOS F	102.4	2677.5	1.00	3.80	7.62	11.5
6	T1	692	6.0	752	6.0	1.246	137.1	LOS F	102.4	2677.5	1.00	3.80	7.62	11.5
16	R2	2	50.0	2	50.0	1.246	138.8	LOS F	102.4	2677.5	1.00	3.80	7.62	11.3
Appr	oach	1033	5.8	1123	5.8	1.246	137.1	LOS F	102.4	2677.5	1.00	3.80	7.62	11.5
North	n: Powe	II Butte F	łwy											
7	L2	1	0.0	1	0.0	0.015	10.1	LOS B	0.1	1.3	0.74	0.70	0.74	32.2
4	T1	1	0.0	1	0.0	0.015	10.1	LOS B	0.1	1.3	0.74	0.70	0.74	32.1
14	R2	3	0.0	3	0.0	0.015	10.1	LOS B	0.1	1.3	0.74	0.70	0.74	31.2
Appr	oach	5	0.0	5	0.0	0.015	10.1	LOS B	0.1	1.3	0.74	0.70	0.74	31.6
West	:: OR12	6												
5	L2	5	0.0	5	0.0	0.793	19.5	LOS C	16.4	430.2	0.84	1.16	1.77	28.8
2	T1	729	6.0	792	6.0	0.793	19.7	LOS C	16.4	430.2	0.84	1.16	1.77	28.7
12	R2	349	15.0	379	15.0	0.409	8.6	LOSA	1.8	50.5	0.50	0.41	0.50	32.1
Appr	oach	1083	8.9	1177	8.9	0.793	16.1	LOS C	16.4	430.2	0.73	0.92	1.36	29.7
All Ve	ehicles	2703	7.9	2938	7.9	1.246	62.1	LOS F	102.4	2677.5	0.84	2.02	3.72	18.4

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Organisation: KITTELSON AND ASSOCIATES INC | Licence: NETWORK / Enterprise | Processed: Thursday, December 16, 2021 4:43:50 PM Project: H:\26\2648 - Crossing Trails Destination Resort\SIDRA\26648 - Roundabouts.sip9

▼ Site: 101 [Powell Butte-126 Background Transight Sat (Site)

Folder: SAT Peak)]

New Site

Site Category: (None)

Roundabout

Vehi	cle Mo	vemen	t Perfor	mance										
Mov ID	Turn	INF VOLL [ Total		DEM. FLO [ Total		Deg. Satn		Level of Service		ACK OF EUE Dist ]	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		veh/h	%	veh/h	%	v/c	sec		veh	ft		Nate	Cycles	mph
South	n: Powe	ll Butte I	Hwy											
3	L2	361	5.0	392	5.0	0.491	11.2	LOS B	3.1	80.7	0.68	0.78	0.96	29.9
8	T1	1	0.0	1	0.0	0.491	11.0	LOS B	3.1	80.7	0.68	0.78	0.96	29.9
18	R2	210	6.0	228	6.0	0.284	7.7	LOSA	1.2	30.2	0.58	0.56	0.58	32.7
Appro	oach	572	5.4	622	5.4	0.491	9.9	LOSA	3.1	80.7	0.64	0.70	0.82	30.8
East:	OR126	3												
1	L2	225	9.0	245	9.0	0.959	45.0	LOS E	29.3	800.5	1.00	2.05	3.58	21.4
6	T1	478	13.0	520	13.0	0.959	45.1	LOS E	29.3	800.5	1.00	2.05	3.58	21.4
16	R2	2	0.0	2	0.0	0.959	44.6	LOS E	29.3	800.5	1.00	2.05	3.58	21.1
Appro	oach	705	11.7	766	11.7	0.959	45.1	LOS E	29.3	800.5	1.00	2.05	3.58	21.4
North	: Powe	II Butte F	lwy											
7	L2	1	0.0	1	0.0	0.009	9.6	LOSA	0.0	0.7	0.73	0.65	0.73	32.1
4	T1	1	0.0	1	0.0	0.009	9.6	LOSA	0.0	0.7	0.73	0.65	0.73	32.0
14	R2	1	0.0	1	0.0	0.009	9.6	LOSA	0.0	0.7	0.73	0.65	0.73	31.2
Appro	oach	3	0.0	3	0.0	0.009	9.6	LOSA	0.0	0.7	0.73	0.65	0.73	31.8
West	: OR120	6												
5	L2	9	43.0	10	43.0	0.516	10.8	LOS B	3.0	77.2	0.55	0.44	0.55	31.7
2	T1	490	5.0	533	5.0	0.516	9.6	LOSA	3.0	77.2	0.55	0.44	0.55	32.9
12	R2	441	5.0	479	5.0	0.452	8.4	LOSA	2.4	63.3	0.51	0.40	0.51	32.4
Appro	oach	940	5.4	1022	5.4	0.516	9.0	LOSA	3.0	77.2	0.53	0.42	0.53	32.6
All Ve	ehicles	2220	7.4	2413	7.4	0.959	20.7	LOS C	29.3	800.5	0.71	1.01	1.58	27.6

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Organisation: KITTELSON AND ASSOCIATES INC | Licence: NETWORK / Enterprise | Processed: Thursday, December 16, 2021 2:40:09 PM Project: H:\26\2648 - Crossing Trails Destination Resort\SIDRA\26648 - Roundabouts.sip9

▼ Site: 101 [TM Background PM (Site Folder: PM Peak)]

New Site

Site Category: (None)

Roundabout

Veh	icle Mo	vemen	t Perfori	mance										
Mov ID	Turn	VOLU	PUT JMES	DEM. FLO	WS	Deg. Satn		Level of Service	QUI	ACK OF EUE	Prop. Que	Effective Stop	Aver. No.	Aver. Speed
		[ Total veh/h	HV ] %	[ Total veh/h	HV ] %	v/c	sec		[ Veh. veh	Dist ] ft		Rate	Cycles	mph
Sout	h: Tom	McCall F	₹d											
3	L2	110	7.0	120	7.0	1.092	106.8	LOS F	22.5	615.1	1.00	2.40	5.81	13.4
8	T1	47	14.0	51	14.0	1.092	107.4	LOS F	22.5	615.1	1.00	2.40	5.81	13.4
18	R2	217	14.0	236	14.0	1.092	107.4	LOS F	22.5	615.1	1.00	2.40	5.81	13.2
Аррі	roach	374	11.9	407	11.9	1.092	107.3	LOS F	22.5	615.1	1.00	2.40	5.81	13.3
East	: OR126	3												
1	L2	63	24.0	68	24.0	0.639	12.9	LOS B	4.7	126.0	0.58	0.41	0.58	30.8
6	T1	462	7.0	502	7.0	0.639	12.4	LOS B	4.7	126.0	0.58	0.41	0.58	31.3
16	R2	96	13.0	104	13.0	0.639	12.6	LOS B	4.7	126.0	0.58	0.41	0.58	30.4
Аррі	roach	621	9.7	675	9.7	0.639	12.4	LOS B	4.7	126.0	0.58	0.41	0.58	31.1
Nort	h: Tom N	ИсCall R	ld.											
7	L2	488	4.0	530	4.0	1.418	216.8	LOS F	98.2	2523.1	1.00	4.59	11.93	8.2
4	T1	66	13.0	72	13.0	1.418	217.3	LOS F	98.2	2523.1	1.00	4.59	11.93	8.2
14	R2	266	0.0	289	0.0	1.418	216.5	LOS F	98.2	2523.1	1.00	4.59	11.93	8.1
Аррі	roach	820	3.4	891	3.4	1.418	216.7	LOS F	98.2	2523.1	1.00	4.59	11.93	8.2
Wes	t: OR12	6												
5	L2	3	33.0	3	33.0	1.219	131.4	LOS F	74.4	1954.3	1.00	3.66	8.15	11.9
2	T1	835	6.0	908	6.0	1.219	130.2	LOS F	74.4	1954.3	1.00	3.66	8.15	12.0
12	R2	3	67.0	3	67.0	1.219	132.9	LOS F	74.4	1954.3	1.00	3.66	8.15	11.7
Аррі	roach	841	6.3	914	6.3	1.219	130.2	LOS F	74.4	1954.3	1.00	3.66	8.15	12.0
All V	ehicles	2656	7.0	2887	7.0	1.418	126.2	LOS F	98.2	2523.1	0.90	3.01	7.22	12.1

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula.

Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Organisation: KITTELSON AND ASSOCIATES INC | Licence: NETWORK / Enterprise | Processed: Thursday, December 16, 2021 4:40:25 PM Project: H:\26\2648 - Crossing Trails Destination Resort\SIDRA\26648 - Roundabouts.sip9

₩ Site: 101 [TM Background Sat (Site Folder: SAT Peak)]

New Site

Site Category: (None)

Roundabout

Vehi	cle Mo	vemen	t Perfori	mance										
Mov ID	Turn		PUT JMES HV]	DEM. FLO [ Total		Deg. Satn		Level of Service		ACK OF EUE Dist ]	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		veh/h	% -	veh/h	% -	v/c	sec		veh	ft				mph
Sout	h: Tom	McCall F	Rd											
3	L2	11	33.0	12	33.0	0.223	10.4	LOS B	8.0	22.5	0.65	0.65	0.65	32.0
8	T1	55	0.0	60	0.0	0.223	8.6	LOS A	8.0	22.5	0.65	0.65	0.65	32.9
18	R2	52	17.0	57	17.0	0.223	9.5	LOS A	8.0	22.5	0.65	0.65	0.65	31.7
Appr	oach	118	10.6	128	10.6	0.223	9.2	LOSA	8.0	22.5	0.65	0.65	0.65	32.3
East	OR126	3												
1	L2	44	20.0	48	20.0	0.686	13.6	LOS B	5.6	154.1	0.45	0.25	0.45	30.6
6	T1	508	13.0	552	13.0	0.686	13.4	LOS B	5.6	154.1	0.45	0.25	0.45	30.9
16	R2	147	15.0	160	15.0	0.686	13.5	LOS B	5.6	154.1	0.45	0.25	0.45	30.0
Appr	oach	699	13.9	760	13.9	0.686	13.4	LOS B	5.6	154.1	0.45	0.25	0.45	30.7
North	n: Tom I	McCall R	ld											
7	L2	150	26.0	163	26.0	0.483	15.3	LOS C	2.4	71.8	0.70	0.85	1.10	28.5
4	T1	72	33.0	78	33.0	0.483	15.7	LOS C	2.4	71.8	0.70	0.85	1.10	28.7
14	R2	14	18.0	15	18.0	0.483	14.9	LOS B	2.4	71.8	0.70	0.85	1.10	28.1
Appr	oach	236	27.7	257	27.7	0.483	15.4	LOS C	2.4	71.8	0.70	0.85	1.10	28.5
West	:: OR12	6												
5	L2	11	0.0	12	0.0	0.591	12.4	LOS B	5.6	146.7	0.71	0.79	1.05	31.6
2	T1	471	6.0	512	6.0	0.591	12.6	LOS B	5.6	146.7	0.71	0.79	1.05	31.4
12	R2	6	0.0	7	0.0	0.591	12.4	LOS B	5.6	146.7	0.71	0.79	1.05	30.7
Appr	oach	488	5.8	530	5.8	0.591	12.6	LOS B	5.6	146.7	0.71	0.79	1.05	31.4
All Ve	ehicles	1541	13.2	1675	13.2	0.686	13.1	LOS B	5.6	154.1	0.59	0.54	0.76	30.7

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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APPENDIX I – 2026
BACKGROUND
CONDITIONS SENSITIVITY
ANALYSIS AT
OR126/POWELL BUTTE
HIGHWAY

₩ Site: 101 [Powell Butte-126 Background Mitigation PM (Site

Folder: PM Peak)]

New Site

Site Category: (None)

Roundabout

			Perfori											
Mov ID	Turn	INP VOLL		DEM/ FLO		Deg. Satn		Level of Service		ACK OF EUE	Prop. Que	Effective Stop	Aver. No.	Aver
טו		[ Total	HV]	[ Total	W3 HV1	Salli	Delay	Service	[ Veh.	Dist ]	Que	Rate	Cycles	Speed
		veh/h	%	veh/h	%	v/c	sec		veh	ft				mpł
South	n: Powe	II Butte I	Hwy											
3	L2	285	15.0	310	15.0	0.517	14.8	LOS B	2.7	74.9	0.70	0.85	1.17	28.3
8	T1	1	0.0	1	0.0	0.517	14.0	LOS B	2.7	74.9	0.70	0.85	1.17	28.
18	R2	296	5.0	322	5.0	0.486	12.9	LOS B	2.6	68.3	0.70	0.82	1.08	30.
Appro	oach	582	9.9	633	9.9	0.517	13.8	LOS B	2.7	74.9	0.70	0.84	1.12	29.3
East:	OR126	6												
1	L2	339	5.0	368	5.0	0.582	11.6	LOS B	5.2	136.6	0.66	0.72	0.96	30.
6	T1	692	6.0	752	6.0	0.582	11.7	LOS B	5.2	136.6	0.66	0.72	0.96	31.
16	R2	2	50.0	2	50.0	0.582	13.3	LOS B	5.2	136.1	0.66	0.72	0.96	30.
Appro	oach	1033	5.8	1123	5.8	0.582	11.7	LOS B	5.2	136.6	0.66	0.72	0.96	31.
North	: Powe	II Butte F	łwy											
7	L2	1	0.0	1	0.0	0.014	9.6	LOSA	0.0	1.1	0.73	0.72	0.73	32.
4	T1	1	0.0	1	0.0	0.014	9.6	LOS A	0.0	1.1	0.73	0.72	0.73	32.
14	R2	3	0.0	3	0.0	0.014	9.6	LOSA	0.0	1.1	0.73	0.72	0.73	31.
Appro	oach	5	0.0	5	0.0	0.014	9.6	LOSA	0.0	1.1	0.73	0.72	0.73	31.
West	: OR12	6												
5	L2	5	0.0	5	0.0	0.643	13.4	LOS B	7.0	183.2	0.72	0.87	1.20	31.
2	T1	729	6.0	792	6.0	0.643	13.7	LOS B	7.0	183.2	0.71	0.87	1.20	30.
12	R2	349	15.0	379	15.0	0.643	14.3	LOS B	6.6	180.3	0.69	0.86	1.20	29.
Appro	oach	1083	8.9	1177	8.9	0.643	13.9	LOS B	7.0	183.2	0.70	0.87	1.20	30.
All Ve	ehicles	2703	7.9	2938	7.9	0.643	13.0	LOS B	7.0	183.2	0.69	0.81	1.09	30

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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# APPENDIX J – 2026 BACKGROUND CONDITIONS SENSITIVITY ANALYSIS AT OR126/TOM MCCALL ROAD

▼ Site: 101 [TM Background - Mitigation PM (Site Folder: PM)

Peak)]

New Site

Site Category: (None)

Roundabout

Vehi	cle Mo	vemen	t Perfori	mance										
Mov ID	Turn		PUT JMES HV]	DEM FLO [ Total	WS HV]	Deg. Satn		Level of Service	95% B <i>A</i> QUE [ Veh.	ACK OF EUE Dist ]	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		veh/h	%	veh/h	%	v/c	sec		veh	ft				mph
Sout	n: Tom	McCall R	Rd											
3	L2	110	7.0	120	7.0	0.476	21.1	LOS C	1.9	50.4	0.82	0.95	1.29	26.9
8	T1	47	14.0	51	14.0	0.476	21.7	LOS C	1.9	50.4	0.82	0.95	1.29	26.8
18	R2	217	14.0	236	14.0	0.686	33.9	LOS D	3.4	94.1	0.87	1.13	1.84	23.5
Appr	oach	374	11.9	407	11.9	0.686	28.6	LOS D	3.4	94.1	0.85	1.06	1.61	24.8
East	OR126	6												
1	L2	63	24.0	68	24.0	0.651	13.4	LOS B	6.1	164.5	0.61	0.50	0.71	30.6
6	T1	462	7.0	502	7.0	0.651	12.9	LOS B	6.1	164.5	0.61	0.50	0.71	31.1
16	R2	96	13.0	104	13.0	0.651	13.1	LOS B	6.1	164.5	0.61	0.50	0.71	30.1
Appr	oach	621	9.7	675	9.7	0.651	13.0	LOS B	6.1	164.5	0.61	0.50	0.71	30.9
North	n: Tom M	์ ∕ไcCall R	d											
7	L2	488	4.0	530	4.0	0.882	35.9	LOS E	13.8	360.0	0.95	1.59	2.87	22.8
4	T1	66	13.0	72	13.0	0.882	36.4	LOS E	13.8	360.0	0.95	1.59	2.87	22.7
14	R2	266	0.0	289	0.0	0.373	9.2	LOSA	1.8	45.9	0.66	0.69	0.76	32.1
Appr	oach	820	3.4	891	3.4	0.882	27.3	LOS D	13.8	360.0	0.85	1.30	2.19	25.1
West	:: OR12	6												
5	L2	3	33.0	3	33.0	0.657	19.1	LOS C	5.5	143.1	0.79	1.04	1.52	28.7
2	T1	835	6.0	908	6.0	0.657	17.8	LOS C	5.5	143.1	0.79	1.04	1.52	29.4
12	R2	3	67.0	3	67.0	0.657	20.8	LOS C	5.4	143.1	0.79	1.04	1.52	27.5
Appr	oach	841	6.3	914	6.3	0.657	17.8	LOS C	5.5	143.1	0.79	1.04	1.52	29.4
All Ve	ehicles	2656	7.0	2887	7.0	0.882	21.1	LOS C	13.8	360.0	0.78	0.99	1.55	27.5

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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▼ Site: 101 [TM Background PM - Sens (Site Folder: Sensitivity)]

New Site

Site Category: (None)

Roundabout

Verille	Te Mo	vemen	t Perfori	mance										
Mov ID	Turn	INF VOLU		DEM. FLO		Deg. Satn		Level of Service		ACK OF EUE	Prop. Que	Effective Stop	Aver. No.	Aver. Speed
		[ Total veh/h	HV]	[ Total veh/h	HV ] %	V/c		- OCI VICE	[ Veh.	Dist ]	Que	Rate	Cycles	
South	: Tom I	ven/n McCall R		ven/n	70		sec		veh	ft				mph
3	L2	110	7.0	120	7.0	1.089	105.8	LOS F	22.2	609.4	1.00	2.39	5.78	13.5
8	T1	47	14.0	51	14.0	1.089	106.4	LOS F	22.2	609.4	1.00	2.39	5.78	13.5
18	R2	217	14.0	236	14.0	1.089	106.4	LOS F	22.2	609.4	1.00	2.39	5.78	13.3
Appro	ach	374	11.9	407	11.9	1.089	106.2	LOS F	22.2	609.4	1.00	2.39	5.78	13.4
East: 0	OR126	6												
1	L2	63	24.0	68	24.0	0.646	13.2	LOS B	4.8	128.6	0.58	0.41	0.59	30.7
6	T1	462	7.0	502	7.0	0.646	12.7	LOS B	4.8	128.6	0.58	0.41	0.59	31.2
16	R2	96	13.0	104	13.0	0.646	12.9	LOS B	4.8	128.6	0.58	0.41	0.59	30.2
Appro	ach	621	9.7	675	9.7	0.646	12.8	LOS B	4.8	128.6	0.58	0.41	0.59	31.0
North:	Tom N	/IcCall R	d											
7	L2	181	4.0	197	4.0	0.516	14.4	LOS B	3.3	83.2	0.76	0.89	1.16	29.5
4	T1	8	13.0	9	13.0	0.516	14.9	LOS B	3.3	83.2	0.76	0.89	1.16	29.3
14	R2	109	0.0	118	0.0	0.516	14.1	LOS B	3.3	83.2	0.76	0.89	1.16	28.8
Appro	ach	298	2.8	324	2.8	0.516	14.3	LOS B	3.3	83.2	0.76	0.89	1.16	29.2
West:	OR12	6												
5	L2	3	33.0	3	33.0	0.956	41.0	LOS E	39.0	1023.2	1.00	1.88	3.14	22.4
2	T1	835	6.0	908	6.0	0.956	40.0	LOS E	39.0	1023.2	1.00	1.88	3.14	22.8
12	R2	3	67.0	3	67.0	0.956	42.2	LOS E	39.0	1023.2	1.00	1.88	3.14	21.8
Appro	ach	841	6.3	914	6.3	0.956	40.0	LOS E	39.0	1023.2	1.00	1.88	3.14	22.8
All Vel	hicles	2134	7.8	2320	7.8	1.089	40.1	LOS E	39.0	1023.2	0.85	1.40	2.58	22.5

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula.

Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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# APPENDIX K – 2026 BACKGROUND CONDITIONS SENSITIVITY ANALYSIS AT POWELL BUTTE HIGHWAY/ALFALFA MARKET ROAD

₩ Site: 101 [Alfalfa-Powell Butte Background Mitigation PM (Site

Folder: PM Peak)]

Alfalfa-Powell Butte Existing PM

Site Category: (None)

Roundabout

Vehi	cle Mo	ovement	Perfor	mance										
Mov ID	Turn	INP VOLU [ Total veh/h		DEM FLO [ Total veh/h		Deg. Satn v/c		Level of Service	95% BA QUE [ Veh. veh		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South	nEast: /	Alfalfa Rd												
21 23	L2 R2	146 190	20.0 22.0	154 200	20.0 22.0	0.384 0.384	6.5 11.5	LOS A LOS B	2.6 2.6	21.3 21.3	0.63 0.63	0.72 0.72	0.63 0.63	51.1 52.0
Appro		336	21.1	354	21.1	0.384	9.3	LOSA	2.6	21.3	0.63	0.72	0.63	51.6
North	East: F	Powell Bu	tte Hwy											
24	L2	239	19.0	252	19.0	0.485	5.4	LOSA	3.9	29.8	0.53	0.54	0.53	52.8
25	T1	311	3.0	327	3.0	0.485	5.3	LOSA	3.9	29.8	0.53	0.54	0.53	54.6
Appro	oach	550	10.0	579	10.0	0.485	5.4	LOSA	3.9	29.8	0.53	0.54	0.53	53.8
South	nWest:	Powell B	utte Hwy	,										
31	T1	340	5.0	358	5.0	0.458	5.7	LOSA	3.6	26.3	0.57	0.61	0.57	53.4
32	R2	155	10.0	163	10.0	0.458	10.4	LOS B	3.6	26.3	0.57	0.61	0.57	53.0
Appro	oach	495	6.6	521	6.6	0.458	7.2	LOSA	3.6	26.3	0.57	0.61	0.57	53.3
All Ve	hicles	1381	11.5	1454	11.5	0.485	7.0	LOSA	3.9	29.8	0.57	0.61	0.57	53.1

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

Delay Model: SIDRA Standard (Geometric Delay is included).

Queue Model: SIDRA Standard.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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# APPENDIX L – 2006 CENTRAL OREGON DESTINATION RESORT TRIP GENERATION STUDY

NAME	CALCULATIONS	RATIO
Recreational home (ITE Land Use code 260) Ratio	PM Peak Hour trip rate = 0.26 Saturday Peak Hour trip rate = 0.36	0.36/0.26 = 1.384
Hwy 20 Total Traffic Ratio	Average PM Peak Hour Weekday August Traffic compared to Average Saturday Peak Hour traffic on Hwy 20 in 2006 (peak month)	1009/843 = 1.1969
BBR Kittelson counts Ratio		
BBR Ferguson Counts Ratio	Compare Memorial Day weekend trip generation counts conducted 2007 with ATR data for Hwy 20 for Memorial Day weekend year 2006	263/170 = 1.547
Average of Ratios		$ \frac{(1.384+1.197+1.547)}{3} \\ = 1.3759 $



DATE	PROJECT#
PROJECT NAME	

SUBJECT

BY SHEET# OF

Summarize huy 126% counts

figure out Saturday trapgeneration forecast

. Figure out traffic from on they 20

for count days.

· Calculate pean Horr tops of parcentage of ADI.

· Calculate P.H ADT

· cal cular afactor.

0.44 trips/vnit. Sattrip gen well be

1.28 higher

pm peah

1) get ATP-data - all thes

Wed Hurs

in a august

Freday

Saturday

Compare average for each day to EBR

counted impgendation.

Pat 103

PATIO 1.

Conyar average weekday to saturday pean hour

2) get ATA duta for managemental Memorial Day lost year. Compare to our Memorial Day lost year. September 12, 2006 Project #: 7905.0

Jim Bryant, ODOT Region 4 David Boyd, ODOT Region 4 63085 N Hwy 97, Suite 107 Bend, Oregon 97701

RE: Central Oregon Resort Trip Generation Study

Dear Jim:

In August, we conducted trip generation studies at two Central Oregon Resort sites in Deschutes County, Oregon to better understand the trip generation characteristics of resorts and to verify previous data collection efforts at the Eagle Crest Resort. This letter presents the results of daily and peak hour counts at the Black Butte Ranch and Eagle Crest Resort during the summertime peak in August 2006. This information can be used to verify the trip generation rates used in recent transportation impact studies for resorts proposed in Crook County. This information will also be useful as part of upcoming discussions regarding needed mitigation measures and potential proportionate share costs.

#### INTRODUCTION

Traffic engineers and local and state review agencies commonly rely upon information contained in the Institute of Traffic Engineers (ITE) *Trip Generation* manual (Reference 1) for estimating trip generation rates of proposed land uses. Although the ITE data is typically used as a standard reference for traffic impacts, it is based on national studies that may not represent specific developments or local conditions. In some instances, it is preferable to collect field data to better measure and represent the local environment. Site-specific data is most reliable when it is collected from developments that closely match the development for which it would be applied.

Within the ITE manual, the data related to resorts is fairly limited and dated. The most similar land use category, *Recreational Homes*, contains data from two studies, one in Oregon conducted in 1977 and another in New York conducted in 1985. In several prior studies for resorts in Central Oregon, data from the Recreational Home category was combined with data associated with Golf Courses and Single Family Homes to forecast the traffic impacts associated with a resort. Until 2003, local resort data was not collected due to the limited number of fully built resorts in the area.

In 2003, Crook County recognized that the resort experience is sufficient to establish a database of local trip generation characteristics. As part of the Brasada land use case, the County requested that trip generation data be collected at the Eagle Crest Resort in Deschutes County. This local data was used as the basis for conditioning Brasada's proportionate share of transportation

improvement costs for the resort (as outlined in the Memorandum of Understanding between ODOT, the County, and Brasada).

As documented in the Brasada land use case, ingress and egress at Eagle Crest Resort in Deschutes County was measured in August 2003 from 3:00-6:00 p.m. The results of the p.m. peak hour (4:30-5:30 p.m.) counts are shown in Table 1. The p.m. peak hour represented the highest traffic volume on the roadway system when combining both the existing roadway volumes with the resort traffic.

Driveway Location	Total Trips	Inbound	Outbound
North Driveway/ Cline Falls Highway	55	20	35
Main Driveway/ Cline Falls Highway	308	161	147
North Driveway/ Oregon 126	4	3	1
Total	367	184	183

Table 1 Eagle Crest Trip Generation (August Weekday PM Peak Hour)

According to data provided by Eagle Crest representatives, there were 1,103 constructed units (single family homes, condominiums, and hotel rooms) in addition to golf courses, recreational amenities, and limited retail at the resort at the time of the counts. Based on the data contained in Table 1, this equates to an overall resort trip rate of 0.33 weekday summertime p.m. peak hour trips per unit (367 trips/1,103 units), with half of the trips inbound and half outbound. This local data was used in the analysis of subsequent Central Oregon resort projects to date.

#### 2006 Central Oregon Resort Trip Generation Study

In recent land use applications, staff from the Oregon Department of Transportation (ODOT) and Crook County requested that additional data be collected at local resorts to verify the data collected in 2003. A summary of studies conducted in August 2006 is presented below.

#### **Data Collection Efforts**

Two pieces of data were collected to capture the trip generating characteristics at existing Central Oregon resorts. These include:

- 24-hour tube counts were conducted on three consecutive weekdays at each of the ingress/egress routes. The purpose of the tube counts was to measure daily resort trip rates and to compare the relative change in resort trip generation over the course of a weekday.
- Peak period turning movement counts were conducted on three consecutive days at each of the ingress/egress routes. These counts were conducted between 3:00 p.m. and 7:00 p.m. to capture the summertime weekday p.m. peak commute hour.

Traffic counts were conducted in mid- to late August to capture the peak resort trips and to coincide with the peak travel season on the adjacent roadways.

#### **Study Sites**

Selection of study sites for the trip generation study was based on three primary criteria:

- 1. The resorts should be located within Central Oregon and include typical resort amenities (golf, swimming, tennis, bicycle and hiking trails).
- 2. The resorts should include a mix of primary and secondary residences.
- 3. The resorts should have been in operation for at least ten years.

Based on these criteria, two resorts were identified for inclusion in a trip generation study: the Black Butte Ranch, which is located along US 20 west of Sisters, and the Eagle Crest Resort, which is located along the Cline Falls Highway immediately south of Oregon 126 and west of Redmond. These resorts contain typical recreational amenities and activities for the region, as further discussed below.

#### **Black Butte Ranch**

The Black Butte Ranch has been in operation for over 30 years. The resort includes approximately 1,800 acres, and is located eight miles west of Sisters, Oregon and immediately south of US 20. The resort contains 33 miles of roads, 18 miles of bicycle trails, two 18-hole championship golf courses, 19 tennis courts, four swimming pools, three restaurants, shops, and a general store. The resort includes 1,251 homesites of which only 34 are undeveloped. The 1,217 constructed residential units are comprised of 1,141 single-family residences and 76 condominiums.

Based on discussions with Black Butte Ranch staff, the peak resort season extends from Memorial Day through Labor Day.

# Daily Resort Trip Generation

The 24-hour trip generation results of the Black Butte Ranch are shown in Illustration 1 and Table 2. The daily trip profiles were collected using the tube counts at each of the resort access locations.

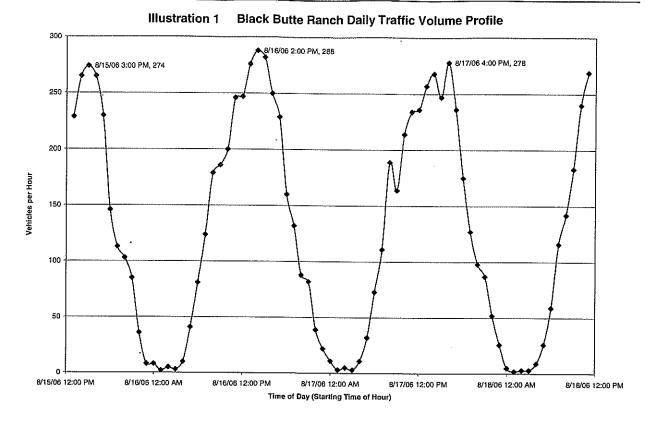


Table 2 Black Butte Ranch Daily Traffic Volumes

Weekday	24-Hour Traffic Volume (Vehicles per day)	24-Hour Trip Generation Rate (Trips/Residential Unit)
Tuesday August 15, 2006	-	-
Wednesday August 16, 2006	3,180	2.61
Thursday August 17, 2006	3,137	2.58
Average	3,159	2.60

As shown in Table 2, the average daily trip rate for Black Butte Ranch is 2.6 trips per residential unit.

# Peak Hour Trip Generation

As shown in Table 3, the peak of the resort occurs between 2:00 and 3:00 p.m. although between the hours of 1:00 p.m. and 5:00 p.m. the hourly trip generation rate is fairly consistent at the resort.

Table 3	Black Butte Ranch Average Hourly Trip Rates
---------	---------------------------------------------

Time of Day	Hourly Traffic Volumes	% of Daily Trips	Hourly Trip Generation Rate
7:00 to 8:00 AM	111	3.5%	0.09
8:00 to 9:00 AM	189	6.0%	0.15
9:00 to 10:00 AM	164	5.2%	0.13
10:00 to 11:00 AM	214	6.8%	0.18
11:00 to 12:00 PM	234	7.4%	0.19
12:00 to 1:00 PM	236	7.5%	0.19
1:00 to 2:00 PM	254	8.0%	0.21
2:00 to 3:00 PM	274	8.7%	0.23
3:00 to 4:00 PM	268	8.5%	0.22
4:00 to 5:00 PM	264	8.4%	0.22
5:00 to 6:00 PM	232	7.3%	0.19
6:00 to 7:00 PM	160	5.1%	0.13
7:00 to 8:00 PM	124	3.9%	0.10
8:00 to 9:00 PM	96	3.0%	0.08

#### **Eagle Crest Resort**

Eagle Crest Resort is located on more than 1,700 acres. The resort is located approximately six miles west of Redmond, Oregon and eight miles from the Redmond Airport along both sides of the Cline Falls Highway. Construction at the Eagle Crest resort started in 1984 and is still ongoing.

The Eagle Crest Resort includes a mix of single family homes, condominiums, hotel rooms, and cluster cabins. Available amenities include three 18-hole championship golf courses, an 18-hole putting course, four outdoor tennis courts, two indoor tennis courts, three outdoor and two indoor swimming pools, an art gallery, four restaurants, 11 miles of bicycle trails, and 1.5 miles of hiking trails. At the time of the data collection efforts, significant construction activity was ongoing at the resort with 1,527 completed residential units and 215 units under construction. Accordingly, it is expected that traffic data from the Eagle Crest Resort will be higher than a typical resort due to the inclusion of significant construction activities.

#### Daily Resort Trip Generation

The 24-hour trip generation results of the Eagle Crest Resort are shown in Illustration 2 and Table 4. The daily trip profiles were collected using the tube counts at each of the resort access locations. At the Cline Falls/Falcons Crest-Coopers Hawk intersection through trips were proportioned out of the tube counts based on data from the turning movement counts collected during the evening commute period.

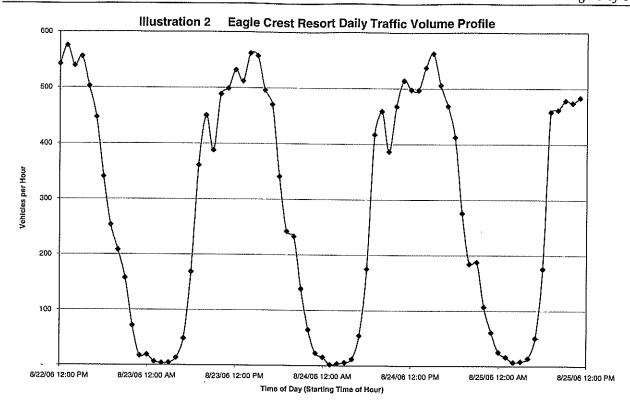


Table 4 Eagle Crest Resort Daily Traffic Volumes

Weekday	24-Hour Traffic Volume (Vehicles per day)	24-Hour Trip Generation Rate (Trips/Residential Unit)		
Tuesday August 22, 2006	-	-		
Wednesday August 23, 2006	6,621	4.34		
Thursday August 24, 2006	6,811	4.46		
Average	6,716	4.40		

As shown in Table 4, the average daily trip rate for the Eagle Crest Resort range is 4.40 trips per unit.

# Peak Hour Trip Generation

Table 5 shows a profile of the hourly trip rate at the Eagle Crest Resort.

	Table 5	Eagle Crest Resort Hourly Trip Rates
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Time of Day	Hourly Traffic Volumes	% of Daily Trips	Hourly Trip Generation Rate
7:00 to 8:00 AM	409	6.1%	0.27
8:00 to 9:00 AM	456	6.8%	0.30
9:00 to 10:00 AM	433	6.5%	0.28
10:00 to 11:00 AM	481	7.2%	0.32
11:00 to 12:00 PM	491	7.3%	0.32
12:00 to 1:00 PM	524	7.8%	0.34
1:00 to 2:00 PM	528	7.9%	0.35
2:00 to 3:00 PM	546	8.1%	0.36
3:00 to 4:00 PM	559	. 8.3%	0.37
4:00 to 5:00 PM	501	7.5%	0.33
5:00 to 6:00 PM	462	6.9%	0.30
6:00 to 7:00 PM	365	5.4%	0.24
7:00 to 8:00 PM	257	3.8%	0.17
8:00 to 9:00 PM	209	3.1%	0.14

As shown in Table 5, the peak of the resort occurs between the hours of 3:00 and 4:00 p.m., and the resort trip rate remains high between the hours of 10:00 a.m. and 6:00 p.m. It is expected that a portion of the traffic is attributable to the on-going construction activity.

#### Calculation of Weekday PM Peak Hour Rates

As discussed above, both resorts have the highest hourly trip generation prior to the highest hourly weekday traffic volume on the adjacent roadway. Table 6 provides a comparison of the peaking characteristics of the resort to the peaking of the surrounding roadway system. This analysis was performed using the turning movement counts collected at the Powell Butte Highway/Oregon 126 intersection in 2003 and 2006.

Table 6 Trip Generation Comparison

Time of Day	Black Butte Ranch	Eagle Crest Resort	Powell Butte Hwy/ Oregon 126 TEV	Intersection Plus Black Butte Volumes	Intersection Plus Eagle Crest Volumes	
3:00 to 4:00 PM	266	538	910	1,176	1,448	
3:30 to 3:45 PM	283	559	935	1,218	1,494	
4:00 to 5:00 PM	270	510	1,054	1,324	1,564	
4:30 to 5:30 PM	246	483	1,129	1,375	1,612	
5:00 to 6:00 PM	232	468	1,077	1,309	1,545	

TEV: Total Entering Vehicles

As shown in Table 6, although the resort traffic has an earlier peak than the adjacent street, the combination of the roadway plus the resort volumes is higher during the roadway peak hour than during the resort peak hour. Therefore, it is most appropriate to use the peak hour rate of the adjacent street. From 4:30 - 5:30 p.m., the 2006 rates are 0.20 trips per unit per hour at Black Butte Ranch and 0.32 trips per unit per hour at Eagle Crest. The 2003 data collected for Eagle Crest indicated a 0.33 trip generation rate for this same period.

#### **Recommendations for Future Central Oregon Resorts**

As discussed above, the rates collected at Eagle Crest are higher than those collected at Black Butte Ranch. This could be attributable to the significant construction activity that is still ongoing at Eagle Crest as well as other potential differences such as the percentage of permanent versus secondary residences at the two locations.

To ensure conservative analyses of future Central Oregon Resorts, we recommend the continued use of the Eagle Crest data rather than an average of the two resort experiences. These rates are:

- 4.40 daily trips per residential unit
- 0.32 summertime weekday p.m. peak hour trips per residential unit

These represent total trip generation rates and are inclusive of the golf courses, restaurants, retail and other amenities present at the resort.

As more resorts mature in Central Oregon, additional traffic studies should be collected to supplement the trip generation information.

Please contact us if you have any questions.

Sincerely, KITTELSON & ASSOCIATES, INC.

Julia Kuhn, P.E. Principal Engineer

Joe Bessman Engineering Associate

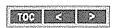
Cc: Marc Butorac, Kittelson & Associates
Tom Walker, W&H Pacific
Kristin Udvari, Ball Janik
Bill Zelenka, Crook County
Dennis Pahlisch, Pahlisch Homes
John Shaw, Remington Ranch LLC

# References

1. Institute of Transportation Engineers. Trip Generation, Seventh Edition. 2003.

# APPENDIX H

CROOK COUNTY DEVELOPMENT CODE - CHAPTER 18.24: EXCLUSIVE FARM USE - 3 (POWELL BUTTE AREA)



#### Chapter 18.24 **EXCLUSIVE FARM USE ZONE, EFU-3 (POWELL BUTTE AREA)**

#### Sections:

- 18.24.005 Regulations designated.
- 18.24.010 Uses permitted outright.
- 18.24.020 Conditional uses permitted.
- 18.24.030 Goal 5 conditional uses subject to planning commission review.
- 18.24.040 Limitations of specific conditional uses.
- 18.24.050 Use limitation.
- 18.24.060 Farm dwelling.
- 18.24.070 Land divisions.
- 18.24.080 Limitations on nonfarm residential uses.
- 18.24.090 Dimensional standards.
- 18.24.100 Yards.
- 18.24.110 Signs.
- 18.24.120 Special nonfarm parcel criteria.
- 18.24.130 Parcel size exception.

#### 18.24.005 Regulations designated.

In an EFU-3 zone, the following regulations shall apply. (Ord. 18 § 3.030, 2003)

#### 18.24.010 Uses permitted outright.

In an EFU-3 zone, the following uses and accessory uses thereof are permitted outright:

- (1) Farm use, as defined in ORS 215.203(2), except a use specified in CCC 18.24.020.
- (2) Propagation or harvesting of a forest product.
- (3) Utility facilities necessary for public service, except commercial facilities for the purpose of generating power for public use by sale and transmission towers less than 200 feet in height or siting on a colocation facility shall be by site plan review based upon the standards contained within CCC 18.124.110.
  - (4) A dwelling on real property used for farm use if the dwelling is:
    - (a) Located on the same lot or parcel as the dwelling of the farm operator; and
- (b) Occupied by a relative, which means grandparents, parent, child, brother or sister of the farm operator or the farm operator's spouse, whose assistance in the management of the farm use is or will be required by the farm operator subject to CCC 18.24.060.
- (5) The dwellings and other buildings customarily provided in conjunction with farm use, except a use specified in CCC 18.24.020. In order to be in conjunction with farm use, the property must:
  - (a) Meet the minimum lot size standard for a farm unit under CCC 18.24.070 and 18.24.090; and
- (b) Be currently cultivated or in active farm use as defined in ORS 215.203. Land is not in farm use unless the day-to-day activities on the subject land are principally directed to the farm use of the land consistent with accepted farming practices.
  - (6) Climbing and passing lanes within the right-of-way existing as of July 1, 1987.
- (7) Reconstruction or modification of public roads and highways, not including the addition of travel lanes, where no removal or displacement of buildings would occur, or no new land parcels result.
- (8) Temporary public road and highway detours that will be abandoned and restored to original condition or use at such time as no longer needed.
- (9) A replacement dwelling to be used in conjunction with farm use if the existing dwelling has been listed in a county inventory as historic property as defined in ORS 358,480.
  - (10) Creation of, restoration of or enhancement of wetlands.
- (11) Minor betterment of existing public roads and highway-related facilities such as maintenance yards, weight stations and rest areas, within right-of-way existing as of July 1, 1987, and contiguous public-owned property utilized to support the operation and maintenance of public roads and highways.
- (12) Excavation of sand, gravel, clay, rock or other similar materials conducted by the landowner or tenant on the landowner's or tenant's property for the primary purpose of reconstruction or maintenance of access roads and excavation or grading operations conducted in the process of farming or cemetery operations, on-site road construction or on-site construction.
- (13) Transmission towers less than 200 feet in height or siting on a colocation facility shall be by site plan review based upon the standards contained within CCC 18.124.110.
- (14) Land application of reclaimed water, agricultural or industrial process water or biosolids for agricultural, or silviculture production, or for new facilities or uses involving the land application of reclaimed

water, agricultural or industrial process of water, or biosolids permitted by the Department of Environmental Quality. This chapter also applies to renewal or modification of licenses, permits, and other approvals by DEQ, where a land use compatibility statement is required under Chapter 340 OAR.

- (a) The planning director is to determine whether the proposed application satisfies the requirements that substance being applied to the land is for agricultural, horticultural or silvicultural production, or for irrigation in connection with another use allowed in the zone, such as a golf course or park.
- (b) The applicant shall provide sufficient information to the county describing the operation, legal description, size of operation, expansion areas, if any, type of crops or land to be irrigated. This includes facilities, including buildings and equipment, aerated and nonaerated water impoundments, pumps and other irrigation equipment that are necessary to and reasonably necessary for the land application to occur on the subject site, or off the subject site if with a public right-of-way; or other land with written landowner consent and the owner of the facility complies with ORS 215.275.4. The site is required to have a determination by the Department of Environmental Quality, that the application rates and site management practices of the applied substance ensure continued agricultural, horticultural or silvicultural production and does not reduce the productivity of the tract.
- (i) The DEQ determination may be provided at time of application, or if not, is required as part of the local approval for the signing of the land use compatibility (LUCS).
- (c) Upon receipt of an application, the planning director shall cause to have a property owner notice and public hearing notice of the proposal as provided for under Chapter 18.172 CCC.
  - (i) The notice shall be mailed and published after the director has deemed the application complete.
- (ii) The notice shall provide opportunity for a pubic hearing. The public hearing shall be conducted to obtain comments as to other alternative solutions and/or locations to the proposed use.
- (iii) The notice shall also state that Chapter 18.160 CCC, Conditional Uses, does not apply, nor do standards from ORS 215.296.
- (d) If a public hearing has been asked for, and possible alternatives have been raised at the hearing, the applicant will be required to consider such comments and explain in writing how it considered them. These comments shall be provided to the county and available to the general public prior to the final county determination on the application. Failure to provide these written comments is cause for appeal to the Crook County court and land use board of appeals.
- (e) The determination by the planning director, or commission, shall contain the following conditions and limitations:
  - (i) DEQ provide site suitability determination, if not provided for in the initial application.
- (ii) Buildings and equipment for the treatment of reclaimed water, agricultural or industrial process water of biosolids shall be prohibited. The establishment and use of facility service lines allowed under ORS 215.283(v) are also prohibited.
- (iii) The use of the tract of land for land application may not be changed unless: the tract of land is included within the Prineville UGB; the tract is rezoned to other than EFU zone; the tract is used for farm use as defined in ORS 215.213.
- (iv) The tract of land for land application may not be divided below minimum lot size established for farm use. (Ord. 18 § 3.030(1), 2003)

### 18.24.020 Conditional uses permitted.

In an EFU-3 zone, the following use and their accessory uses are permitted when authorized in accordance with the requirements of Chapter 18.160 CCC and this chapter.

- (1) Manufactured dwelling for workers customarily provided in conjunction with farm use when located on the same lot or parcel as the farm operator and located within one-half mile of a dwelling not owned by applicant subject to CCC 18.24.060. In order to be in conjunction with farm use the property must:
  - (a) Meet the minimum lot size standards for a farm unit under CCC 18.24.070 and 18.24.090; and
- (b) Be currently cultivated or in active farm use as defined in ORS 215.203. Land is not in farm use unless the day-to-day activities on the subject land are principally directed to the farm use of the land consistent with accepted farming practices.
  - (2) Public or private schools, including all buildings essential to the operation of a school.
  - (3) Churches.
  - (4) The breeding, boarding and training of horses for profit.
  - (5) Seasonal farm-worker housing as defined in ORS 197.675.
  - (6) Commercial activities that are in conjunction with farm use.
- (7) Public and private parks, playgrounds, hunting and fishing preserves and campgrounds, and community centers owned and operated by a governmental agency or a nonprofit community organization.
  - (8) Golf courses.
  - (9) Commercial utility facilities for the purpose of generating power for public use by sale.
- (10) Personal-use airports for airplanes and helicopter pads, including associated hangar, maintenance and service facilities. A "personal-use airport" as used in this chapter means an airstrip restricted, except for aircraft emergencies, to use by the owner, and, on an infrequent and occasional basis, by invited guests, and

by agricultural operations. No aircraft may be based on a personal-use airport other than those owned or controlled by the owner of the airstrip.

- (11) A facility for the primary processing of forest products; provided, that such facility is found to not seriously interfere with accepted farming practices and is compatible with farm uses described in ORS 215.203(2). Such a facility may be approved for a one-year period, which is renewable. These facilities are intended to be only portable or temporary in nature. The "primary processing of a forest product," as used in this chapter, means the use of a portable chipper or stud mill or other similar methods of initial treatment of a forest product in order to enable its shipment to market. "Forest products," as used in this chapter, means timber grown upon a parcel of land or contiguous land where the primary processing facility is located.
  - (12) Home occupations subject to the criteria within CCC 18.160.050(7).
- (13) One manufactured dwelling in conjunction with an existing dwelling as a temporary use for the term of a hardship suffered by the existing resident or a relative of the resident.
  - (14) Single-family residential dwelling not in conjunction with farm use subject to CCC 18.24.080.
- (15) New transmission towers over 200 feet in height are subject to the criteria within CCC 18.124.110 and 18.160.050(17).
  - (16) Residential homes as defined in ORS 197.660, in existing dwellings.
- (17) Reconstruction or modification of public roads and highways involving the removal or displacement of buildings but not resulting in the creation of new land parcels.
  - (18) Room and board arrangements for a maximum of five unrelated persons in existing residences.
- (19) Improvements of public roads and highway-related facilities, such as maintenance yards, weight stations and rest areas, where additional property or right-of-way is required but not resulting in the creation of new land parcels.
- (20) Construction of additional passing and travel lanes requiring the acquisition of right-of-way but not resulting in the creation of new land parcels.
- (21) Operations conducted for the exploration of geothermal resources as defined by ORS 522.005 and oil and gas as defined by ORS 520.005.
- (22) A site for the disposal of solid waste for which a permit has been granted under ORS 459.245 by the Department of Environmental Quality together with equipment, facilities or buildings necessary for its
- (23) Destination resorts may be allowed as a conditional use, subject to all applicable standards of the DRO zone, Chapter 18.116 CCC. (Ord. 18 § 3.030(2), 2003)

#### 18.24.030 Goal 5 conditional uses subject to planning commission review.

See uses and procedures described in Chapter 18.144 CCC. (Ord. 18 § 3.030(3), 2003)

#### 18.24.040 Limitations of specific conditional uses.

In addition to the general standards and conditions that may be attached to the approval of a conditional use as provided by Chapter 18.160 CCC, the following limitations shall apply to a conditional use permitted in CCC 18.24.020. A use allowed under CCC 18.24.020 may be approved where the county finds that the use will not:

- (1) Force a significant change in accepted farm or forest practices on surrounding lands devoted to farm or forest use: or
- (2) Significantly increase the cost of accepted farm or forest practices on surrounding lands devoted to farm or forest use.

An applicant for a use allowed under CCC 18.24.020 may demonstrate that the standards under subsections (1) and (2) of this section will be satisfied through the imposition of conditions. Any conditions so imposed shall be clear and objective. (Ord. 18 § 3.030(4), 2003)

#### 18.24.050 Use limitation.

No conflicting use shall be allowed in any Goal 5 mining impact area designated in the comprehensive plan without first obtaining approval under the standards and criteria set forth in this section.

- (1) Review and Approval Criteria. An application for review shall be required for a conflicting use in an impact area prior to commencement of construction of the use. The approving authority shall review and approve the application provided:
  - (a) The proposed use is consistent with the ESEE analysis in the comprehensive plan; and
- (b) The proposed use will not prevent the adjacent aggregate operator from meeting the standards and conditions set forth in Chapter 18.144 CCC.
- (2) Waiver of Remonstrance. The applicant for site plan approval of a conflicting use in the Goal 5 mining impact area shall sign and record in the Crook County book of records, a statement declaring that the applicant and his or her successors will not now or in the future complain about the allowed surface mining activities on the adjacent surface mining site.
- (3) Development Agreement and Performance Bond. As a condition of approval, the applicant may be required to execute a development agreement with the county and performance bond or other form of

security approved by the county to ensure full and faithful performance of any required improvements. Any bond shall be for 100 percent of the dollar amount of the improvement cost. (Ord. 18 § 3.030(5), 2003)

#### 18.24.060 Farm dwelling.

The resource dwellings identified in CCC 18.24.010 and 18.24.020 may be approved for a commercial farm or ranch based upon the following:

- (1) The size of the entire resource unit including all contiguous land in the same ownership; the types of farm crops and acreage for each type; operational requirements for the particular farm activity; the number of other permanent or temporary dwellings on or serving the entire farm or ranch unit (permanent or seasonal); the extent and nature of the work to be performed by occupants of the proposed dwelling.
- (2) The dwelling will be situated on a parcel currently employed for farm use as defined in ORS 215.203. Land is not in farm use unless the day-to-day activities on the subject land are principally directed to the farm use of the land consistent with accepted farming practices.
- (3) Notice of the proposed administrative approval of a dwelling in conjunction with farm use as provided for in CCC 18.24.010 shall be mailed to adjoining property owners. Within 10 days following notice to adjoining property owners, the application shall be considered for approval by the planning director. An objection by an adjoining property owner shall result in a review of the application by the planning commission as a conditional use permit.
- (4) Farm Hand or Secondary Resource Dwelling. When determining whether a proposed farm hand or secondary dwelling may be provided, the farm owner or operator shall demonstrate that an occupant of the proposed dwelling is required to assist in the commercial farm or ranch operation.
- (5) Commercial Resource Determination. When determining whether an existing or proposed parcel is a commercial farm or ranch unit, the standards of this section shall be met and the following factors shall be considered:
- (a) Soil productivity; drainage; terrain, special soil and land conditions; availability of water; type and acreage of crops grown; crop yields; number and type of livestock; processing and marketing practices; and the amount of land needed to constitute a commercial agricultural enterprise as defined in CCC 18.08.030. (Ord. 18 § 3.030(6), 2003)

#### 18.24.070 Land divisions.

Divisions of land shall be only allowed when consistent with the requirements of CCC 18.24.090, the land development ordinance and the following:

- (1) Farm Parcels. Division of land for farm parcels shall be appropriate for the continuation of the existing commercial agricultural operations in the area, but shall not be less than the minimum parcel size established in ORS 215.780 and CCC 18.24.090.
- (2) Nonfarm Parcels. Division of land for nonfarm parcels shall comply with the following requirements including CCC 18.24.080:
  - (a) Nonfarm dwellings have been approved for the proposed parcels pursuant to CCC 18.24.020(14);
- (b) The parcels for the nonfarm dwellings are divided from a lot or parcel that was lawfully created prior to July 1, 2001;
- (c) Two nonfarm parcels may be created as long as the remainder of the original parcel meets or exceeds the minimum standards established by CCC 18.24.090;
- (d) For those existing parcels that are below the minimum size established by CCC 18.24.090, but are greater than 40 acres, compliance with CCC 18.24.120 is required.
- (3) Minimum lot size shall be 320 acres within the elk wintering range as designated in the county's comprehensive plan, Goal 5 element. Minimum lot size for critical deer winter range shall be 40 acres, as designated by the county's comprehensive plan, Goal 5 element. Minimum lot size for general winter range shall be 40 acres.
- (4) A land division for a nonfarm dwelling may be approved only if the nonfarm dwelling has first been approved under CCC 18.24.020. (Ord. 18 § 3.030(7), 2003)

#### 18.24.080 Limitations on nonfarm residential uses.

The county may approve a nonfarm residential dwelling upon a finding that the proposed dwelling:

- (1) Accepted Farm or Forest Practices. Will not seriously interfere with or force a significant change in accepted farm or forest practices, as defined in ORS 215.203(2)(C), on nearby or adjacent lands devoted to farm or forest use, including but not limited to increasing the costs of accepted farm or forest practices on nearby lands devoted to farm use.
- (2) Land Use Pattern. The dwelling will not materially alter the stability of the overall land use pattern of the area. In determining whether a proposed nonfarm dwelling will alter the stability of the land use pattern in the area, the county shall consider the cumulative impacts of new nonfarm dwellings on other lots or parcels in the area. If the application involves the creation of a new parcel for the nonfarm dwelling, the county shall consider whether creation of the parcel will lead to the creation of other nonfarm parcels, to the detriment of agriculture in the nonfarm parcels, to the detriment of agriculture in the area. To address this standard, the

applicant shall:

- (a) Identify a study area representative of the surrounding agricultural area including adjacent and nearby land zoned for exclusive farm use. Nearby lands zoned for rural residential or other urban or nonresource uses shall not be included;
- (b) Identify the types and sizes of all farm and nonfarm uses and the stability of the existing land use pattern within the identified study area; and
- (c) Explain how the introduction of the proposed nonfarm dwelling will not materially alter the stability of the land use pattern in the identified study area.

The applicant's evidence shall be sufficient to enable the county to make findings on these as well as other applicable requirements.

- (3) Unsuitability for Agriculture.
- (a) The dwelling is situated upon a lot or parcel, or a portion of a lot or parcel, that is generally unsuitable land for the production of farm crops and livestock, considering the terrain, adverse soil or land conditions, drainage and flooding, vegetation, location and size of the tract. A lot or parcel shall not be considered unsuitable solely because of size or location if it can reasonably be put to farm use in conjunction with other land. A lot or parcel is not "generally unsuitable" simply because it is too small to be farmed profitably by itself. If a lot or parcel can be sold, leased, rented or otherwise managed as a part of a commercial farm or ranch, it is not "generally unsuitable." A lot or parcel is presumed to be suitable if it is composed predominantly of Class I - VI soils. Just because a lot or parcel is unsuitable for one farm use does not mean it is not suitable for another farm use.
- (b) If the parcel is under forest assessment, the dwelling shall be situated upon generally unsuitable land for the production of merchantable tree species recognized by the forest practices rules, considering the terrain, adverse soil or land conditions, drainage and flooding, vegetation, location and size of the parcel. If a lot or parcel is under forest assessment, the area is not "generally unsuitable" simply because it is too small to be managed for forest production profitably by itself. If a lot or parcel is under forest assessment, it is presumed suitable if it is composed predominantly of soils capable of producing 20 cubic feet of wood fiber per acre per year. If a lot or parcel is under forest assessment, to be found compatible and not seriously interfere with forest uses or surrounding land it must not force a significant change in forest practices or significantly increase the cost of those practices on the surrounding land.
- (4) Other Conditions Deemed Necessary. Complies with such other conditions as the county considers
- (5) Creation of Lot. The dwelling will be sited on a lot or parcel created before January 1, 1983, or on a lot or parcel created after January 1, 1993, pursuant to CCC 18.24.070(4) or 18.20.070(4).
- (6) Disqualification from Farm Deferral. Prior to final approval of a building permit for a use governed by this section, the entire lot or parcel upon which the nonfarm dwelling will be located must be disqualified for farm assessments pursuant to ORS 215.236. (Ord. 18 § 3.030(8), 2003)

#### 18.24.090 Dimensional standards.

In an EFU-3 zone, the following dimensional standards shall apply:

- (1) The lot or parcel of 160 acres or more shall be considered a farm unit.
- (2) A lot or parcel of less than 160 acres, but equal to or greater than the minimum lot size established by ORS 215.780 may be approved as a farm unit pursuant to the administrative review procedures under Chapter 18.172 CCC, when found to comply with the following.
- (a) Any proposed parcel below 160 acres shall have usable water right and water availability of adequate quantity to ensure the operation of irrigated farming techniques of commercial levels;
- (b) The proposed parcels must be of a size and shape that is efficient for the use of farm machinery including: cultivating, harvesting, and spraying equipment. The proposed division shall not materially alter the stability of the overall land use pattern of the area.
- (3) The minimum lot area for all nonfarm uses listed under CCC 18.24.020 (except dwellings) shall not be larger than the minimum necessary for the use.
- (4) A land division for a nonfarm dwelling may be approved only if the nonfarm dwelling has first been approved under CCC 18.24.040. (Ord. 18 § 3.030(9), 2003)

#### 18.24.100 Yards.

In an EFU-3 zone, the minimum yard setback requirements shall be as follows:

- (1) In the exclusive farm use zone (EFU) the minimum setback of a residence or habitable structure from a property line shall be 100 feet.
- (a) If a parcel in the EFU zone is nonbuildable as a result of the habitable structure setback requirements, the commission may consider a conditional use application from the landowner to adjust the setback requirements to make the parcel buildable.
  - (2) The minimum setbacks for all accessory structures are:
- (a) Front yard setbacks shall be 20 feet for property fronting on a local minor collector or marginal access street, 30 feet from a property line fronting on a major collector ROW, and 80 feet from an arterial ROW

unless other provisions for combining accesses are provided and approved by the county.

- (b) Each side yard shall be a minimum of 20 feet, except on corner lots or parcels where the side yard on the street side shall be a minimum of 30 feet.
  - (c) Rear yards shall be a minimum of 25 feet. (Ord. 18 § 3.030(10), 2003)

#### 18.24.110 Signs.

Whereas signs have been a problem in this community, and it is not the intent of this title to restrict creativity, no specific standards shall be imposed. However, the commission may order the removal of any sign when petitioned to do so by a majority of property owners of lands immediately adjacent to the property on which a sign is located, or a majority of property owners living within one-quarter mile of said sign. (Ord. 18 § 3.030(11), 2003)

### 18.24.120 Special nonfarm parcel criteria.

Standards for land divisions for parcels equal to or below minimum size as established by ORS 215.780.

- (1) A parcel may be divided into two nonfarm parcels each to contain one dwelling not in conjunction with farm use upon a finding that:
  - (a) Nonfarm dwellings have been approved pursuant to CCC 18.24.080;
  - (b) Parcel was lawfully created prior to July 1, 2001;
  - (c) The original parcel size is larger than 40 acres;
  - (d) Parcels are not capable of producing at least 20 cubic feet per acre of wood fiber;
  - (e) There are not any established water rights for irrigation;
  - (f) Composed of 90 percent Class VII and VIII soils;
  - (g) Composed of 90 percent Class VI through VIII soils and complying with subsection (2) of this section.
- (2) Parcels identified in subsection (1)(g) of this section must demonstrate that the sites are not capable of producing adequate herbaceous forage for grazing livestock. These findings shall include the following:
  - (a) Whether the parcel is in open range or a livestock district;
  - (b) Whether the parcel is currently fenced;
  - (c) Whether livestock water is available;
  - (d) Size of the parcel;
- (e) AUM's availability determined by on-site study by qualified independent party such as a Crook County soil and water conservation representative or USDA Natural Resources Conservation Representative, or in the private sector, a range consultant or professional in rangeland management certified by the Society of Range Management. The study shall use accepted practices in the identification of herbaceous forage, using best management practices in determining the parcel's capability for herbaceous forage production. The study shall include the total pounds for current year dry matter herbaceous forage on site.
  - (f) Each site shall have not more than 13,000 pounds current year dry matter herbaceous forage on site.
- (3) Parcels approved pursuant to subsections (1) and (2) of this section shall have the following conditions imposed to minimize any impacts to adjacent farming practices.
- (a) A conservation plan to be submitted prior to the issuance of building permit for a nonfarm dwelling addressing animal management, weed control, juniper/fire issues, and erosion control measure if located on sloped land.
- (b) Nonfarm parcels are to be removed from farm deferral, if on program, prior to final plat approval and recording.
- (c) Letter of nonremonstrance agreeing not to object to accepted farm practices in the area. (Ord. 18 § 3.030(12), 2003)

#### 18.24.130 Parcel size exception.

Whereas land sections in the area of the county subject to this section are commonly affected by survey adjustments, requirements relative to farm or lot sizes shall be considered as standard metes and bounds land section divisions, i.e., 160, 80, 40, 20, etc. Therefore, lot sizes may be reduced by five percent due to a survey adjustment or other manmade barriers such as roads or major canals over which the applicant has had no control. (Ord. 18 § 3.030(13), 2003)



# APPENDIX I

LEVEL OF SERVICE CONCEPTS

# LEVEL OF SERVICE CONCEPTS

#### **HIGHWAY CAPACITY MANUAL 2000**

The Transportation Research Board's *Highway Capacity Manual* (HCM) provides transportation practitioners and researchers with a consistent system of techniques for the evaluation of the quality of service on highway and street facilities. The HCM does not set policies regarding a desirable or appropriate quality of service for various facilities, systems, regions, or circumstances. The HCM is intended to provide a systematic and consistent basis for assessing the capacity and level of service for elements of the surface transportation system and also for systems that involve a series or combination of individual facilities. The manual is the primary source document embodying research findings on capacity and quality of service and presenting methods for analyzing the operations of streets and highways and pedestrian and bicycle facilities.

The following discussions in this appendix are from the HCM 2000.

#### LEVEL OF SERVICE

Level of service (LOS) is a concept that uses qualitative measures that characterize operational conditions within a traffic stream and their perception by motorists and passengers. The following factors are considered when determining the level of service: speed and travel time, freedom to maneuver, traffic interruptions, and comfort and convenience.

**Signalized Intersections** - Level of service for signalized intersections is defined in terms of control delay, which is a measure of driver discomfort, frustration, fuel consumption, and increased travel time. The delay experienced by a motorist is made up of a number of factors that relate to control, geometrics, traffic, and incidents. Total delay is the difference between the travel time actually experienced and the reference travel time that would result during base conditions: in the absence of traffic control, geometric delay, any incidents, and any other vehicles. Specifically, LOS criteria for traffic signals are stated in terms of the average control delay per vehicle, typically for a 15-minute analysis period. Delay is a complex measure and depends on a number of variables, including the quality of progression, the cycle length, the green ratio, and the v/c ratio for the lane group. Table A illustrates the operational characteristics as well as correlates control delay to LOS for a signalized intersection.

The critical v/c ratio is an approximate indicator of the overall sufficiency of an intersection. The critical v/c ratio depends on the conflicting critical lane flow rates and the signal phasing.

The average back of queue is another performance measure that is used to analyze a signalized intersection. The back of queue is the number of vehicles that are queued depending on arrival patterns of vehicles and vehicles that do not clear the intersection during a given green phase.

TABLE A - LEVEL OF SERVICE CRITERIA FOR SIGNALIZED INTERSECTIONS

LEVEL OF SERVICE	OPERATIONAL CHARACTERISTICS
Α	Operations with low control delay, up to 10 s/veh. This LOS occurs when progression is extremely favorable and most vehicles arrive during the green phase. Many vehicles do not stop at all. Short cycle lengths may tend to contribute to low delay values.
В	Operations with control delay greater than 10 and up to 20 s/veh. This level generally occurs with good progression, short cycle lengths, or both. More vehicles stop than with LOS A, causing higher levels of delay.
C	Operations with control delay greater 20 and up to 35 s/veh. These higher delays may result from only fair progression, longer cycle lengths, or both. Individual cycle failures may begin to appear at this level. Cycle failure occurs when a given green phase does not serve queued vehicles, and overflows occur. The number of vehicles stopping is significant at this level, though many still pass through the intersection without stopping.
D	Operations with control delay greater than 35 and up to 55 s/veh. At LOS D, the influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle lengths, and high v/c ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.
E	Operations with control delay greater than 55 and up to 80 s/veh. These high delay values generally indicate poor progression, long cycle lengths, and high v/c ratios. Individual cycle failures are noticeable.
F	Operations with control delay in excess of 80 s/veh. This level, considered unacceptable to most drivers, often occurs with over saturation, that is, when arrival flow rates exceed the capacity of lane groups. It may also occur at high v/c ratios with many individual cycle failures. Poor progression and long cycle lengths may also contribute significantly to high delay levels.

Delays in the range of LOS F (unacceptable) can occur while the v/c ratio is below 1.0. Very high delays can occur at such v/c ratios when some combination of the following conditions exists: the cycle length is long, the lane group in question is disadvantaged by the signal timing (has a long red time), and the signal progression for the subject movements is poor. The reverse is also possible (for a limited duration): a saturated lane group (i.e., v/c ratio greater than 1.0) may have low delays if the cycle length is short or the signal progression is favorable, or both.

Thus, the designation LOS F does not automatically imply that intersection, approach, or lane group is over capacity, nor does an LOS better than E automatically imply that unused capacity is available.

**Two-Way Stop Control Intersections** - LOS for a two-way stop control (TWSC) intersection is determined by the computed or measured control delay and is defined for each minor movement. LOS is not defined for the intersection as a whole. The LOS criteria for TWSC intersections are somewhat different from the criteria for signalized intersections primarily because different transportation facilities create different driver perceptions. The expectation is that a signalized intersection is designed to carry higher traffic volumes and experience greater delay than an unsignalized intersection. Table B shows the correlation between control delay and LOS at a two-way stop control intersection.

**All-Way Stop Control Intersections** - The criteria for all-way stop control (AWSC) intersections have different threshold values than do those for signalized intersections primarily because drivers expect different levels of performance from distinct types of transportation facilities. The expectation is that a signalized intersection is designed to carry higher traffic volumes than an AWSC intersection. Thus a higher level of control delay is acceptable at a signalized intersection for the same LOS. Table B shows the correlation between control delay and LOS at an all-way stop control intersection.

TABLE B - LEVEL OF SERVICE CRITERIA FOR TWSC AND AWSC INTERSECTIONS

LEVEL OF SERVICE	AVERAGE CONTROL DELAY (SECONDS/VEHICLE)
Α	0-10
В	>10-15
С	>15-25
D	>25-35
E	>35-50
F	>50

**Roundabout Control Intersections** - Roundabouts have been used successfully in cities throughout the world and are being used increasingly in the United States.

Although extensive literature on roundabout modeling has evolved worldwide, there is limited experience with their application in North America. Accordingly, a comprehensive methodology for all situations is not offered by the HCM. The procedure described by the HCM makes the best use of the limited field data collected at roundabouts in the United States to modify the operating parameters of established performance analysis techniques. Whereas it should be used with care until additional research is conducted, the procedure does provide the U.S. practitioner with basic guidelines concerning the capacity of a roundabout.

# APPENDIX M – TRIP GENERATION RATE COMPARISON

# Appendix A

#### ITE Tri Generation Rates

Name	Land Use	ITE Code	Units	Size	Daily Rate	Weekday Daily	AM Peak Rate	Week	day AM Peak I	Hour	PM Peak	Weekd	ay PM Pe	ak Hour	SAT Peak	Satru	day Peak	Hour
		Code					Raie	Total	In	Out	Rate	Total	In	Out	Rate	Total	In	Out
Workforce Housing	Single Family Detached Housing	210	welling Un	100	9.43	943	0.70	70	18	52	0.94	94	59	35	0.41	41	21	20
Park Models/Cabins/ Overnight Rentals	Resort Hotel	330	Rooms	250	4.1	1,025	0.32	80	58	22	0.41	103	44	59	0.39	98	47	51
Vacation Villas	Recreation Homes	260	welling Un	400	3.55	1,420	0.22	88	48	40	0.29	116	53	63	0.39	156	75	81
1	Workforce Housing Inte	ernalization	(25%)					18	5	13	-	24	15	9	-	10	5	5
	Net Propose	d Trips				3,388		220	119	101		289	141	148		285	138	147

#### Destination Resort Trip Rate

Land Use	ITE Code	Units	Size	Daily Rate	Daily	SAT Peak Rate	Sati	urday Peak	( Hour	PM Peak	Weekd	ay PM Ped	ak Hour	Weekdo	ıy AM Pe	ak Hour
							Total	ln	Out	Rate	Total	In	Out	Total	ln	Out
Workforce Housing	210	Dwelling Units	100	9.43	943	0.41	41	21	20	0.94	94	59	35	70	18	52
Destination Resort	N/A	welling Un	650	4.4	2860	0.44	286	143	143	0.32	208	104	104	156	78	78
Workf	orce Housing Internali	zation (25%	5)		236		10	5	5		24	15	9	18	5	13
	Net Proposed Tri	os			3567		317	159	158		278	148	130	208	91	117

# APPENDIX N – 2026 BUILD-OUT CONDITIONS OPERATIONAL ANALYSIS WORKSHEETS

₩ Site: 101 [Powell Butte-126 Build Transight PM (Site Folder: PM

Peak)]

New Site

Site Category: (None)

Roundabout

Vehi	cle Mo	vemen	t Perfori	mance										
Mov ID	Turn	INF VOLU [Total	JMES HV]	DEM/ FLO' [ Total	WS HV]	Deg. Satn	Delay	Level of Service	QU [ Veh.	ACK OF EUE Dist ]	Prop. Que	Effective Stop Rate	Aver. No. Cycles	
South	o. Powe	veh/h II Butte I	% -Jww	veh/h	%	v/c	sec		veh	ft				mph
	L2	285	,	310	15.0	0.574	10.1	LOS C	3.2	90.5	0.75	0.94	1.36	27.3
3 8	T1	285 1	15.0 0.0		0.0	0.574	18.1 17.2	LOS C	3.2 3.2	90.5 90.5	0.75 0.75		1.36	27.5 27.5
8 18	R2	338	5.0	1 367	5.0	0.574	18.3	LOS C	3.2 4.1	90.5 107.4	0.75	0.94 0.99	1.30	28.3
Appro		624	9.6	678	9.6	0.616	18.2	LOS C	4.1	107.4	0.79	0.99	1.44	27.8
			0.0	010	0.0	0.010	10.2	2000	7.1	107.4	0.77	0.07	1.40	27.0
East:	OR126	5												
1	L2	360	5.0	391	5.0	1.304	161.0	LOS F	118.0	3085.9	1.00	4.16	8.45	10.3
6	T1	719	6.0	782	6.0	1.304	161.0	LOS F	118.0	3085.9	1.00	4.16	8.45	10.3
16	R2	2	50.0	2	50.0	1.304	162.7	LOS F	118.0	3085.9	1.00	4.16	8.45	10.1
Appro	oach	1081	5.7	1175	5.7	1.304	161.0	LOS F	118.0	3085.9	1.00	4.16	8.45	10.3
North	: Powe	II Butte H	Hwy											
7	L2	1	0.0	1	0.0	0.015	10.1	LOS B	0.1	1.3	0.74	0.70	0.74	32.2
4	T1	1	0.0	1	0.0	0.015	10.1	LOS B	0.1	1.3	0.74	0.70	0.74	32.1
14	R2	3	0.0	3	0.0	0.015	10.1	LOS B	0.1	1.3	0.74	0.70	0.74	31.2
Appro	oach	5	0.0	5	0.0	0.015	10.1	LOS B	0.1	1.3	0.74	0.70	0.74	31.6
West	: OR12	6												
5	L2	5	0.0	5	0.0	0.852	24.2	LOS C	22.4	585.4	0.93	1.41	2.21	27.2
2	T1	780	6.0	848	6.0	0.852	24.4	LOS C	22.4	585.4	0.93	1.41	2.21	27.0
12	R2	349	15.0	379	15.0	0.411	8.6	LOSA	1.8	50.7	0.51	0.42	0.51	32.1
Appro	oach	1134	8.7	1233	8.7	0.852	19.6	LOS C	22.4	585.4	0.80	1.10	1.68	28.4
All Ve	ehicles	2844	7.8	3091	7.8	1.304	73.0	LOS F	118.0	3085.9	0.87	2.24	4.19	16.9

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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₩ Site: 101 [Powell Butte-126 Build Transight Sat (Site Folder:

SAT Peak)]

New Site

Site Category: (None)

Roundabout

Vehi	cle Mo	vement	Perfor	mance										
Mov ID	Turn	INP VOLU [Total		DEM. FLO [ Total		Deg. Satn		Level of Service		ACK OF EUE Dist ]	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		veh/h	пv ј %	veh/h	пv ј %	v/c	sec		veh.	ft		Nate	Cycles	mph
South	n: Powe	ll Butte l	Hwy											
3	L2	361	5.0	392	5.0	0.515	12.2	LOS B	3.4	87.3	0.70	0.83	1.06	29.5
8	T1	1	0.0	1	0.0	0.515	11.9	LOS B	3.4	87.3	0.70	0.83	1.06	29.6
18	R2	249	6.0	271	6.0	0.353	9.0	LOSA	1.5	40.3	0.62	0.64	0.66	32.1
Appro	oach	611	5.4	664	5.4	0.515	10.9	LOS B	3.4	87.3	0.67	0.75	0.90	30.5
East:	OR126	6												
1	L2	262	9.0	285	9.0	1.073	75.1	LOS F	50.6	1382.1	1.00	2.75	5.26	16.7
6	T1	525	13.0	571	13.0	1.073	75.3	LOS F	50.6	1382.1	1.00	2.75	5.26	16.7
16	R2	2	0.0	2	0.0	1.073	74.7	LOS F	50.6	1382.1	1.00	2.75	5.26	16.5
Appro	oach	789	11.6	858	11.6	1.073	75.2	LOS F	50.6	1382.1	1.00	2.75	5.26	16.7
North	n: Powe	II Butte F	łwy											
7	L2	1	0.0	1	0.0	0.009	10.0	LOSA	0.0	8.0	0.74	0.66	0.74	32.0
4	T1	1	0.0	1	0.0	0.009	10.0	LOSA	0.0	8.0	0.74	0.66	0.74	31.9
14	R2	1	0.0	1	0.0	0.009	10.0	LOSA	0.0	0.8	0.74	0.66	0.74	31.0
Appro	oach	3	0.0	3	0.0	0.009	10.0	LOSA	0.0	0.8	0.74	0.66	0.74	31.6
West	: OR12	6												
5	L2	9	43.0	10	43.0	0.576	12.2	LOS B	4.9	128.0	0.61	0.59	0.79	31.1
2	T1	536	5.0	583	5.0	0.576	11.0	LOS B	4.9	128.0	0.61	0.59	0.79	32.2
12	R2	441	5.0	479	5.0	0.463	8.7	LOSA	2.5	64.4	0.54	0.44	0.54	32.2
Appro	oach	986	5.3	1072	5.3	0.576	10.0	LOSA	4.9	128.0	0.58	0.52	0.68	32.2
All Ve	ehicles	2389	7.4	2597	7.4	1.073	31.8	LOS D	50.6	1382.1	0.74	1.32	2.25	24.3

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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# ▼ Site: 101 [TM Build PM (Site Folder: PM Peak)]

New Site

Site Category: (None)

Roundabout

Vehi	cle Mo	vement	Perfor	mance										
Mov ID	Turn	INP VOLU [ Total veh/h		DEM/ FLO [ Total veh/h		Deg. Satn v/c		Level of Service		ACK OF EUE Dist ] ft	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed mph
South	n: Tom I	McCall R	d											
3	L2	114	7.0	124	7.0	1.097	108.3	LOS F	23.1	632.2	1.00	2.43	5.90	13.3
8	T1	47	14.0	51	14.0	1.097	108.9	LOS F	23.1	632.2	1.00	2.43	5.90	13.3
18	R2	217	14.0	236	14.0	1.097	108.9	LOS F	23.1	632.2	1.00	2.43	5.90	13.1
Appro	oach	378	11.9	411	11.9	1.097	108.7	LOS F	23.1	632.2	1.00	2.43	5.90	13.2
East:	OR126	3												
1	L2	63	24.0	68	24.0	0.710	15.3	LOS C	9.4	251.9	0.66	0.59	0.86	29.9
6	T1	495	7.0	538	7.0	0.710	14.8	LOS B	9.4	251.9	0.66	0.59	0.86	30.3
16	R2	129	13.0	140	13.0	0.710	15.0	LOS B	9.4	251.9	0.66	0.59	0.86	29.4
Appro	oach	687	9.7	747	9.7	0.710	14.9	LOS B	9.4	251.9	0.66	0.59	0.86	30.1
North	: Tom N	∕IcCall R	d											
7	L2	505	4.0	549	4.0	1.511	257.7	LOS F	111.5	2863.2	1.00	4.96	13.30	7.1
4	T1	66	13.0	72	13.0	1.511	258.2	LOS F	111.5	2863.2	1.00	4.96	13.30	7.1
14	R2	266	0.0	289	0.0	1.511	257.4	LOS F	111.5	2863.2	1.00	4.96	13.30	7.1
Appro	oach	837	3.4	910	3.4	1.511	257.6	LOS F	111.5	2863.2	1.00	4.96	13.30	7.1
West	: OR12	6												
5	L2	3	33.0	3	33.0	1.231	135.8	LOS F	78.3	2057.7	1.00	3.74	8.31	11.6
2	T1	852	6.0	926	6.0	1.231	134.6	LOS F	78.3	2057.7	1.00	3.74	8.31	11.7
12	R2	5	67.0	5	67.0	1.231	137.3	LOS F	78.3	2057.7	1.00	3.74	8.31	11.4
Appro	oach	860	6.4	935	6.4	1.231	134.6	LOS F	78.3	2057.7	1.00	3.74	8.31	11.7
All Ve	hicles	2762	7.1	3002	7.1	1.511	138.6	LOS F	111.5	2863.2	0.91	3.15	7.64	11.4

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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▼ Site: 101 [TM Build Sat (Site Folder: SAT Peak)]

New Site

Site Category: (None)

Roundabout

Veh	icle Mo	vemen	t Perfori	nance										
Mov ID	Turn		PUT JMES HV] %	DEM, FLO [ Total veh/h		Deg. Satn v/c		Level of Service	95% BA QUE [ Veh. veh		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed mph
Sout	h: Tom I	McCall F	Rd											
3	L2	15	33.0	16	33.0	0.242	11.2	LOS B	0.9	24.3	0.66	0.66	0.66	31.6
8	T1	55	0.0	60	0.0	0.242	9.2	LOSA	0.9	24.3	0.66	0.66	0.66	32.5
18	R2	52	17.0	57	17.0	0.242	10.2	LOS B	0.9	24.3	0.66	0.66	0.66	31.3
Appr	oach	122	11.3	133	11.3	0.242	9.9	LOSA	0.9	24.3	0.66	0.66	0.66	31.9
East	: OR126	3												
1	L2	44	20.0	48	20.0	0.745	16.1	LOS C	6.7	185.7	0.52	0.29	0.52	29.6
6	T1	508	13.0	552	13.0	0.745	15.9	LOS C	6.7	185.7	0.52	0.29	0.52	29.9
16	R2	203	15.0	221	15.0	0.745	15.9	LOS C	6.7	185.7	0.52	0.29	0.52	29.0
Appr	oach	755	13.9	821	13.9	0.745	15.9	LOS C	6.7	185.7	0.52	0.29	0.52	29.6
Nortl	h: Tom N	/lcCall R	d											
7	L2	180	26.0	196	26.0	0.547	17.4	LOS C	3.0	92.0	0.72	0.92	1.27	27.7
4	T1	72	33.0	78	33.0	0.547	17.8	LOS C	3.0	92.0	0.72	0.92	1.27	27.9
14	R2	14	18.0	15	18.0	0.547	17.0	LOS C	3.0	92.0	0.72	0.92	1.27	27.3
Appr	oach	266	27.5	289	27.5	0.547	17.5	LOS C	3.0	92.0	0.72	0.92	1.27	27.7
Wes	t: OR12	6												
5	L2	11	0.0	12	0.0	0.617	13.5	LOS B	6.2	161.1	0.74	0.89	1.19	31.1
2	T1	471	6.0	512	6.0	0.617	13.8	LOS B	6.2	161.1	0.74	0.89	1.19	30.9
12	R2	6	0.0	7	0.0	0.617	13.5	LOS B	6.2	161.1	0.74	0.89	1.19	30.2
Appr	oach	488	5.8	530	5.8	0.617	13.7	LOS B	6.2	161.1	0.74	0.89	1.19	30.9
All V	ehicles	1631	13.5	1773	13.5	0.745	15.1	LOS C	6.7	185.7	0.63	0.60	0.86	29.8

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Intersection									
Int Delay, s/veh	41.5								
Movement	WBL	WBR	NBT	NBR	SBL	SBT			
Lane Configurations	ሻ	7	<b></b>	7	ሻ	<b></b>			
Traffic Vol, veh/h	146	190	382	155	239	332			
Future Vol, veh/h	146	190	382	155	239	332			
Conflicting Peds, #/hr	0	0	0	0	0	0			
Sign Control	Stop	Stop	Free	Free	Free	Free			
RT Channelized	-	None	-	None	-	None			
Storage Length	0	0	_	150	170	-			
Veh in Median Storage		-	0	-	-	0			
Grade, %	0	_	0	_	_	0			
Peak Hour Factor	88	88	88	88	88	88			
Heavy Vehicles, %	20	22	5	10	19	3			
Mymt Flow	166	216	434	176	272	377			
viiic i iov	100	210	707	110	LIL	011			
Major/Mina-	Mine-1		Mais 1		Mais 2				
	Minor1		Major1		Major2	^			
Conflicting Flow All	1355	434	0	0	610	0			
Stage 1	434	-	-	-	-	-			
Stage 2	921	- 0.40	-	-	4.00	-			
Critical Hdwy	6.6	6.42	-	-	4.29	-			
Critical Hdwy Stg 1	5.6	-	-	-	-	-			
Critical Hdwy Stg 2	5.6	-	-	-	-	-			
Follow-up Hdwy		3.498	-		2.371	-			
Pot Cap-1 Maneuver	~ 151	582	-	-	891	-			
Stage 1	617	-	-	-	-	-			
Stage 2	360	-	-	-	-	-			
Platoon blocked, %	40=		-	-	221	-			
Mov Cap-1 Maneuver		582	-	-	891	-			
Mov Cap-2 Maneuver		-	-	-	-	-			
Stage 1	617	-	-	-	-	-			
Stage 2	250	-	-	-	-	-			
Approach	WB		NB		SB				
HCM Control Delay, s	170.6		0		4.5				
HCM LOS	F								
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1V	VBLn2	SBL	SBT		
Capacity (veh/h)		-	-	105	582	891	-		
HCM Lane V/C Ratio		_	_			0.305	<u>-</u>		
HCM Control Delay (s)		-	-\$	373.3	14.8	10.8	-		
HCM Lane LOS		_	-	F	В	В	-		
HCM 95th %tile Q(veh	)	-	-	12.6	1.7	1.3	-		
`									
Notes	! !	Φ. D.	1		20-		Add Not D. C I	*- All	
~: Volume exceeds cap	pacity	\$: De	lay exc	eeds 30	JUS	+: Comp	outation Not Defined	*: All major volume in platoon	

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Intersection						
Int Delay, s/veh	2.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	ሻ	7	<u> </u>	7	ሻ	<u> </u>
Traffic Vol, veh/h	5	118	547	29	134	576
Future Vol, veh/h	5	118	547	29	134	576
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	100	_	100	100	-
Veh in Median Storage,		-	0	-	-	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	0	0	0
Mymt Flow	6	134	622	33	152	655
IVIVIIILIIOVV	U	104	022	00	102	000
Major/Minor M	/linor1	N	Major1	ا	Major2	
Conflicting Flow All	1581	622	0	0	655	0
Stage 1	622	-	-	-	-	-
Stage 2	959	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	_	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	121	490	-	-	942	-
Stage 1	539	-	-	-	-	-
Stage 2	375	-	_	-	_	-
Platoon blocked, %			-	_		_
Mov Cap-1 Maneuver	102	490	_	_	942	_
Mov Cap-2 Maneuver	102	-	_	_		_
Stage 1	539	_	_	_	_	_
Stage 2	315	<u>-</u>	_	_	_	_
Stage 2	313	_	_		_	
Approach	WB		NB		SB	
HCM Control Delay, s	16.2		0		1.8	
HCM LOS	С					
Minor Lane/Major Mvmt		NBT	NIDDV	VBLn1V	MDI 50	SBL
IVIII IOI I ALIE/IVIAIOI IVIVIIII		INDI			490	942
					441)	947
Capacity (veh/h)		-	-	102		
Capacity (veh/h) HCM Lane V/C Ratio		-		0.056	0.274	0.162
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		-	-	0.056 42.4	0.274 15.1	0.162 9.6
Capacity (veh/h) HCM Lane V/C Ratio		- - -		0.056	0.274	0.162

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Intersection												
Int Delay, s/veh	0.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	0	1	0	15	0	2	0	624	34	8	700	1
Future Vol, veh/h	0	1	0	15	0	2	0	624	34	8	700	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	_	-	-	-	_	-	-	-	-	-	-	-
Veh in Median Storage	.,# -	0	_	_	0	-	_	0	-	_	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	8	0	0	0	8	15	17	8	0
Mymt Flow	0	1	0	17	0	2	0	709	39	9	795	1
Major/Minor I	Minor2			Minor1			Major1		N	//ajor2		
Conflicting Flow All	1544	1562	796	1543	1543	729	796	0	0	748	0	0
Stage 1	814	814	190	729	729	129	790	-	-	740	-	U
<u> </u>	730	748		814	814				-			
Stage 2	7.1	6.5	6.2	7.18	6.5	6.2	4.1	-	-	4.27	-	-
Critical Hdwy	6.1	5.5		6.18	5.5			-	-		-	
Critical Hdwy Stg 1	6.1	5.5	-	6.18	5.5	-	-	_	-	-	-	-
Critical Hdwy Stg 2	3.5		2 2	3.572		3.3	2.2	-	-	2.353		
Follow-up Hdwy		113	390	3.572	116	426	835	-		797	-	-
Pot Cap-1 Maneuver	95 375	394		405	431		033	-	-		-	-
Stage 1	417	423	-			-	<del>-</del>	-	<del>-</del>	-	-	-
Stage 2	417	423	-	363	394	-	-	-	-	-	-	-
Platoon blocked, %	02	111	200	.00	111	400	025	-	-	707	-	-
Mov Cap-1 Maneuver	93	111	390	89	114	426	835	-	-	797	-	-
Mov Cap-2 Maneuver	93	111	-	89	114	-	-	-	-	-	-	-
Stage 1	375	386	-	405	431	-	-	-	-	-	-	-
Stage 2	415	423	-	355	386	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	37.8			50.5			0			0.1		
HCM LOS	Е			F								
Minor Lane/Major Mvm	ıt	NBL	NBT	NBR I	EBLn1V	VBLn1	SBL	SBT	SBR			
Capacity (veh/h)		835	-	-	111	98	797	-	-			
HCM Lane V/C Ratio		-	-	-	0.01	0.197	0.011	-	-			
HCM Control Delay (s)		0	-	-	37.8	50.5	9.6	0	-			
HCM Lane LOS		Α	-	-	Е	F	Α	Α	-			
HCM 95th %tile Q(veh)		0	-	-	0	0.7	0	-	-			

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Intersection													
	307.6												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4	7	ሻ	<b>1</b>	115.1	1102	4	7	052	4	OBIT	
Traffic Vol, veh/h	5	780	349	360	719	2	285	0	338	0	0	3	
Future Vol, veh/h	5	780	349	360	719	2	285	0	338	0	0	3	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	- -	-	None	
Storage Length	_	_	90	170	_	-	_	_	125	_	_	-	
Veh in Median Storage,		0	-	-	0	_	_	0	-	_	0	_	
Grade, %	π - -	0	_	<u>-</u>	0	<u>-</u>	<u>-</u>	0	_	<u>-</u>	0	<u>-</u>	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92	
Heavy Vehicles, %	0	6	15	5	6	50	15	0	5	0	0	0	
Mymt Flow	5	848	379	391	782	2	310	0	367	0	0	3	
VIVIIIL FIOW	ິວ	040	319	391	102	2	310	U	301	U	U	3	
Major/Minor Major1 Major2 Minor1 Minor2													
		^			^			2424	848		2802	783	
Conflicting Flow All	784	0	0	1227	0	0	2425	2424		2796			
Stage 1	-	-	-	-	-	-	858	858	-	1565	1565	-	
Stage 2	-	-	-	-	-	-	1567	1566	-	1231	1237	-	
Critical Hdwy	4.1	-	-	4.15	-	-	7.25	6.5	6.25	7.1	6.5	6.2	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.25	5.5	-	6.1	5.5	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.25	5.5	-	6.1	5.5	-	
ollow-up Hdwy	2.2	-	-	2.245	-	-	3.635	4	3.345	3.5	4	3.3	
ot Cap-1 Maneuver	843	-	-	558	-	-	~ 20		~ 357	12	19	397	
Stage 1	-	-	-	-	-	-	334	376	-	141	174	-	
Stage 2	-	-	-	-	-	-	~ 130	174	-	219	250	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	843	-	-	558	-	-	~ 8	10	~ 357	-	6	397	
Mov Cap-2 Maneuver	-	-	-	-	-	-	~ 8	10	-	-	6	-	
Stage 1	-	-	-	-	-	-	327	368	-	138	52	-	
Stage 2	-	-	-	-	-	-	~ 39	52	-	-	245	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0			8.4		\$ 8	3228.6						
HCM LOS							F			-			
Minor Lane/Major Mvmt	N	NBLn11	VBLn2	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1			
Capacity (veh/h)		8	357	843	-	_	558	_	_	_			
HCM Lane V/C Ratio	3			0.006	_	-	0.701	_	_	-			
HCM Control Delay (s)		880.3	90.3	9.3	0	-	25.2	-	_	-			
HCM Lane LOS	Ψ , ι	F	F	A	A	_	D	_	_	_			
HCM 95th %tile Q(veh)		40.6	12.4	0	-	-	5.6	-	_	-			
Votes													
	oity	¢. D-	lov ove	0040 30	ıΩc	L. Com-	vutation	Not D	finad	*. AII .	maiary	olumo !	nlotoon
: Volume exceeds capa	acity	φ; D6	ay exc	eeds 30	ius -	+: Comp	outation	NOT DE	eimea	: All l	najor v	olume ir	n platoon

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Intersection												
Int Delay, s/veh	2.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	45	1053	18	6	1040	6	5	0	6	5	1	34
Future Vol, veh/h	45	1053	18	6	1040	6	5	0	6	5	1	34
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	3	5	0	0	4	0	0	0	0	0	0	15
Mvmt Flow	47	1108	19	6	1095	6	5	0	6	5	1	36
Major/Minor I	Major1		ľ	Major2		ľ	Minor1		N	Minor2		
Conflicting Flow All	1101	0	0	1127	0	0	2341	2325	1118	2325	2331	1098
Stage 1	-	-	-	-	-	-	1212	1212	-	1110	1110	-
Stage 2	-	-	-	-	-	-	1129	1113	-	1215	1221	-
Critical Hdwy	4.13	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.35
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	_	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.227	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.435
Pot Cap-1 Maneuver	630	_	-	627	-	-	26	38	254	26	37	244
Stage 1	-	-	-	-	-	-	225	257	-	256	287	-
Stage 2	-	-	-	-	-	-	250	286	-	224	255	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	630	-	-	627	-	-	18	30	254	21	29	244
Mov Cap-2 Maneuver	-	-	-	-	-	-	18	30	-	21	29	-
Stage 1	-	-	-	-	-	-	180	205	-	205	280	-
Stage 2	-	-	-	-	-	-	207	279	-	175	204	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.5			0.1			146.7			68		
HCM LOS							F			F		
Minor Lane/Major Mvm	nt 1	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBLn1			
Capacity (veh/h)		36	630	-	-	627	-	-	97			
HCM Lane V/C Ratio		0.322		_	_	0.01	_		0.434			
HCM Control Delay (s)		146.7	11.2	0	_	10.8	0	_	68			
HCM Lane LOS		F	В	A	_	В	A	_	F			
HCM 95th %tile Q(veh)	)	1.1	0.2	-	_	0		_	1.8			
Siti ootii /otiio Q(Voii)		1.1	J.L						1.0			

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Intersection												
Int Delay, s/veh	3.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			र्स	7		4	
Traffic Vol, veh/h	49	1009	8	3	976	18	1	0	2	8	1	89
Future Vol, veh/h	49	1009	8	3	976	18	1	0	2	8	1	89
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	90	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	_	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	5	5	0	0	6	13	0	0	0	0	0	4
Mvmt Flow	52	1062	8	3	1027	19	1	0	2	8	1	94
Major/Minor I	Major1			Major2		1	Minor1		N	Minor2		
Conflicting Flow All	1046	0	0	1070	0	0	2260	2222	1066	2214	2217	1037
Stage 1	-	-		-	-	_	1170	1170	-	1043	1043	
Stage 2	_	_	_	_	_	_	1090	1052	_	1171	1174	_
Critical Hdwy	4.15	_	_	4.1	_	_	7.1	6.5	6.2	7.1	6.5	6.24
Critical Hdwy Stg 1	5	-	_	-	_	_	6.1	5.5	-	6.1	5.5	- 0.2
Critical Hdwy Stg 2	_	_	_	_	_	_	6.1	5.5	_	6.1	5.5	_
Follow-up Hdwy	2.245	_	_	2.2	_	_	3.5	4	3.3	3.5	4	3.336
Pot Cap-1 Maneuver	654	_	_	659	_	-	29	44	273	32	44	278
Stage 1	-	_	_	-	_	_	237	269	-	280	309	-
Stage 2	_	-	-	-	-	-	263	306	-	237	268	-
Platoon blocked, %		-	-		_	_						
Mov Cap-1 Maneuver	654	-	_	659	_	_	16	35	273	27	35	278
Mov Cap-2 Maneuver	-	-	-	-	_	_	16	35	-	27	35	-
Stage 1	_	-	-	-	_	_	190	216	-	225	306	-
Stage 2	_	-	_	_	_	-	172	303	-	189	215	-
<b>y</b> =												
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.5			0			94			68		
HCM LOS							F			F		
							•			•		
Minor Lane/Major Mvm	ıt	NBLn11	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1		
Capacity (veh/h)		16	273	654	-	-	659	-	-	152		
HCM Lane V/C Ratio			0.008		-	-	0.005	-	-	0.679		
HCM Control Delay (s)		245.3	18.3	11	0	-	10.5	0	-	68		
HCM Lane LOS		F	С	В	A	-	В	A	-	F		
HCM 95th %tile Q(veh)		0.2	0	0.3	-	_	0	_	-	3.9		

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Intersection						
Int Delay, s/veh	0.8					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>1</b>			4	¥	
Traffic Vol, veh/h	990	38	3	986	15	8
Future Vol, veh/h	990	38	3	986	15	8
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage,	# 0	_	_	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	5	0	0	6	0	0
	1042	40	3	1038	16	8
IVIVIIIL I IUW	1042	40	J	1000	10	U
Major/Minor Major/Minor	ajor1	N	Major2	N	Minor1	
Conflicting Flow All	0	0	1082	0	2106	1062
Stage 1	-	_	-	-	1062	-
Stage 2	-	-	-	-	1044	-
Critical Hdwy	-	-	4.1	_	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	_	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	652	-	57	274
Stage 1	_	-	-	-	335	-
Stage 2	_	-	-	-	342	_
Platoon blocked, %	_	-		-		
Mov Cap-1 Maneuver	_	_	652	_	56	274
Mov Cap-2 Maneuver	_	_	-	_	56	
Stage 1	_	_	_	_	335	_
Stage 2	_	_	_	_	338	_
Olaye Z	_	_	_	_	550	_
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		71.9	
HCM LOS					F	
Minor Lane/Major Mvmt	N	NBLn1	EBT	EBR	WBL	WBT
iviii Oi Lane/iviajoi iviviili	I					
Composite / / valle /le \		77	-	-	652	-
Capacity (veh/h)					$\Lambda$	
HCM Lane V/C Ratio		0.314	-		0.005	-
HCM Lane V/C Ratio HCM Control Delay (s)		0.314 71.9	-	-	10.5	0
HCM Lane V/C Ratio		0.314				

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Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LUL	4	₩ <u>₽</u>	ופייי	₩.	אופט
Traffic Vol, veh/h	6	<b>981</b>	986	2	<b>T</b>	13
Future Vol, veh/h	6	981	986	2	2	13
	0	981	986	0	0	0
Conflicting Peds, #/hr						
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	•	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	20	6	6	50	50	20
Mvmt Flow	6	1033	1038	2	2	14
Major/Minor	Major1	N	Major2	N	/linor2	
Conflicting Flow All	1040	0	<u>viajui 2</u> -	0	2084	1039
Stage 1	1040	-	-		1039	1039
	-	-		-	1039	-
Stage 2	4.0	-	-	-		
Critical Hdwy	4.3	-	-	-	6.9	6.4
Critical Hdwy Stg 1	-	-	-	-	5.9	-
Critical Hdwy Stg 2	-	-	-	-	5.9	-
Follow-up Hdwy	2.38	-	-	-	3.95	3.48
Pot Cap-1 Maneuver	604	-	-	-	43	259
Stage 1	-	-	-	-	278	-
Stage 2	-	-	-	-	276	-
Platoon blocked, %			-	-		
Mov Cap-1 Maneuver	604	-	-	-	42	259
Mov Cap-2 Maneuver	-	-	-	-	42	-
Stage 1	-	_	-	-	272	-
Stage 2	-	_	-	-	276	-
g • <del>-</del>					5	
	-					
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		31.2	
HCM LOS					D	
Minor Long/Maior M	ot.	EDI	EDT	MDT	WDD	CDI n4
Minor Lane/Major Mvn	IL	EBL	EBT	WBT	WBR	
Capacity (veh/h)		604	-	-		153
HCM Lane V/C Ratio		0.01	-	-		0.103
HCM Control Delay (s)		11	0	-	-	31.2
HCM Lane LOS		В	Α	-	-	D
HCM 95th %tile Q(veh	)	0	-	-	-	0.3

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Intersection						
Int Delay, s/veh	12					
		EDT	WDT	WDD	CDI	CDD
Movement Configurations	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	107	<del>વ</del>	965	20	<b>\</b>	400
Traffic Vol, veh/h	107	869	865	38	25	128
Future Vol, veh/h	107	869	865	38	25	128
Conflicting Peds, #/hr	0	0	0	0	O Cton	O Cton
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	
Storage Length	- #	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	- 05	0	0	- 05	0	- 05
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	112	6	6	0	0	5 125
Mvmt Flow	113	915	911	40	26	135
Major/Minor M	lajor1	N	Major2	N	Minor2	
Conflicting Flow All	951	0	-	0	2072	931
Stage 1	-	_	-		931	-
Stage 2	-	-	-	-	1141	-
Critical Hdwy	4.1	_	_	-	6.4	6.25
Critical Hdwy Stg 1	7.1	-	-	<u>-</u>	5.4	0.25
Critical Hdwy Stg 1		_	_	_	5.4	
Follow-up Hdwy	2.2	-	-	<u> </u>		3.345
Pot Cap-1 Maneuver	730	-	_		60	319
Stage 1	730	_	_	-	387	319
Stage 2	-	-	-	-	307	
Platoon blocked, %		-	-		307	-
Mov Cap-1 Maneuver	730	-	-	-	41	319
			-		41	
Mov Cap-2 Maneuver	-	-	-	-		-
Stage 1	-	-	-	-	265	-
Stage 2	-	-	-	-	307	-
Approach	EB		WB		SB	
HCM Control Delay, s	1.2		0		151.8	
HCM LOS			•		F	
Minor Laws (NA : NA :		EDI	EDT	\A/DT	WPD	י ומכ
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR S	
Capacity (veh/h)		730	-	-	-	151
HCM Lane V/C Ratio		0.154	-	-		1.067
HCM Control Delay (s)		10.8	0	-		151.8
HCM Lane LOS		В	Α	-	-	F
HCM 95th %tile Q(veh)		0.5	-	-	-	8.4
HUIVI 95th %tile Q(veh)		0.5	-	-	-	8.4

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Intersection						
Int Delay, s/veh	2.4					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
	WDL	NOK		אסוו	ODL	
Lane Configurations	<b>4</b> 3		<b>1</b>	81	26	<b>र्व</b> 100
Traffic Vol., veh/h	43	5	64 64	81	26	100
Future Vol, veh/h	43	5 0	04	0	0	0
Conflicting Peds, #/hr						
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage,		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	60	0	0	50	0	5
Mvmt Flow	51	6	75	95	31	118
Major/Minor N	1inor1	N	Major1	N	Major2	
Conflicting Flow All	303	123	0	0	170	0
Stage 1	123	125	-	-	-	-
Stage 2	180	_	_	_		_
Critical Hdwy	7	6.2		_	4.1	
•	6	0.2	-	_	4.1	-
Critical Hdwy Stg 1	6		-	-	_	
Critical Hdwy Stg 2		-	-	-	-	-
Follow-up Hdwy	4.04	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	583	933	-	-	1420	-
Stage 1	777	-	-	-	-	-
Stage 2	729	-	-	-	-	-
Platoon blocked, %			-	-	1.105	-
Mov Cap-1 Maneuver	570	933	-	-	1420	-
Mov Cap-2 Maneuver	570	-	-	-	-	-
Stage 1	777	-	-	-	-	-
Stage 2	712	-	-	-	-	-
Approach	WB		NB		SB	
	11.7		0		1.6	
HCM Control Delay, s HCM LOS			U		1.0	
HOW LOS	В					
Minor Lane/Major Mvmt		NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	594	1420	-
HCM Lane V/C Ratio		-	_	0.095		-
HCM Control Delay (s)		-	-		7.6	0
HCM Lane LOS		-	-	В	Α	Α
HCM 95th %tile Q(veh)		-	-	0.3	0.1	-
( )						

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Intersection						
Int Delay, s/veh	4.5					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	₽	LUIX	VVDL	₩ <u>₩</u>	₩.	TIDIX
Traffic Vol, veh/h	22	2	108	74	<u>т</u> 1	30
Future Vol, veh/h	22	2	108	74	1	30
Conflicting Peds, #/hr	0	0	0	0	2	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	Stop -	
Storage Length	_	-	_	-	0	-
Veh in Median Storage			_	0	0	-
Grade, %	, # 0 0			0	0	-
Peak Hour Factor	85	85	95		85	85
			85	85		
Heavy Vehicles, %	12	50	127	12	0	11
Mvmt Flow	26	2	127	87	1	35
Major/Minor I	Major1	N	Major2	N	Minor1	
Conflicting Flow All	0	0	28	0	370	27
Stage 1	_	-		_	27	
Stage 2	_	_	_	_	343	_
Critical Hdwy	_	_	4.12	-	6.4	6.31
Critical Hdwy Stg 1	<u>-</u>	_	- 1.12	<u>-</u>	5.4	- 0.01
Critical Hdwy Stg 2	_			_	5.4	_
Follow-up Hdwy	_		2.218	-	3.5	
Pot Cap-1 Maneuver		<u>-</u>	1585		634	1023
•	-	-	1303	-	1001	1023
Stage 1	-	-	-	-		
Stage 2	-	-	-	-	723	-
Platoon blocked, %	-	-	4505	-		4000
Mov Cap-1 Maneuver	-	-	1585	-	579	1023
Mov Cap-2 Maneuver	-	-	-	-	579	-
Stage 1	-	-	-	-	1001	-
Stage 2	-	-	-	-	661	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		4.4		8.7	
HCM LOS					Α	
Minor Lane/Major Mvm	it N	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		998	-		1585	-
HCM Lane V/C Ratio		0.037	_	_	0.08	_
HCM Control Delay (s)		8.7	_	_	7.5	0
HCM Lane LOS		Α	_	_	7.5 A	A
JIN LUND LUU		, ,			, ,	, ,
HCM 95th %tile Q(veh)	\	0.1	_	_	0.3	_

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Intersection						
Int Delay, s/veh	5.4					
		EDT	WDT	WED	ODI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	22	4	ĵ.	•	¥	00
Traffic Vol, veh/h	66	36	9	9	15	30
Future Vol, veh/h	66	36	9	9	15	30
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	78	42	11	11	18	35
		_		_		
	Major1		//ajor2	N	/linor2	
Conflicting Flow All	22	0	-	0	215	17
Stage 1	-	-	-	-	17	-
Stage 2	-	-	-	-	198	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	_	_	5.4	_
Follow-up Hdwy	2.2	-	-	_	3.5	3.3
Pot Cap-1 Maneuver	1607	_	_	_	778	1068
Stage 1	-	_	_	_	1011	-
Stage 2	_	_	_	_	840	_
Platoon blocked, %		_	_	_	0+0	
Mov Cap-1 Maneuver	1607		-	-	739	1068
•			-	_	739	1000
Mov Cap-2 Maneuver	-	-	-	-		-
Stage 1	-	-	-	-	960	-
Stage 2	-	-	-	-	840	-
Approach	EB		WB		SB	
HCM Control Delay, s	4.8		0		9.1	
HCM LOS	4.0		U		Α.	
I IOW LOS						
Minor Lane/Major Mvm	t	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		1607	_	-	_	930
HCM Lane V/C Ratio		0.048	-	-	_	0.057
HCM Control Delay (s)		7.4	0	-	-	9.1
HCM Lane LOS		A	A	_	_	A
HCM 95th %tile Q(veh)		0.2		_	_	0.2
Holvi Jour 70the Q(Ven)		0.2	_	_	_	U.Z

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Intersection						
Int Delay, s/veh	3.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	WDL W	אטא		אטוז	ODL	<u>361</u>
Traffic Vol, veh/h	30	17	<b>♣</b>	51	14	23
Future Vol, veh/h	30	17	2	51	14	23
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Siop -	None	riee -	None	riee -	
Storage Length	0	-		-	_	INOHE -
Veh in Median Storage	-	-	0	-	-	0
Grade, %	s, # 0 0	-	0			0
Peak Hour Factor	85	85	85	85	85	85
	85 0					
Heavy Vehicles, %		0	0	0	0	0
Mvmt Flow	35	20	2	60	16	27
Major/Minor	Minor1	N	Major1	N	Major2	
Conflicting Flow All	91	32	0	0	62	0
Stage 1	32	-	-	-	-	-
Stage 2	59	_	_	_	_	_
Critical Hdwy	6.4	6.2	_	_	4.1	_
Critical Hdwy Stg 1	5.4	J.L	_	_	T. I	_
Critical Hdwy Stg 2	5.4	_	_	_	_	_
Follow-up Hdwy	3.5	3.3	_	_	2.2	_
Pot Cap-1 Maneuver	914	1048	_	-	1554	
Stage 1	996	1040		_	1004	-
	969	-	-	-	-	
Stage 2	909	-	-	-	-	-
Platoon blocked, %	005	1040	-	-	1551	-
Mov Cap-1 Maneuver	905	1048	-	-	1554	-
Mov Cap-2 Maneuver	905	-	-	-	-	-
Stage 1	996	-	-	-	-	-
Stage 2	959	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	9		0		2.8	
HCM LOS			U		2.0	
I IOIVI LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	952	1554	-
HCM Lane V/C Ratio		-	-	0.058		-
HCM Control Delay (s)		-	_	9	7.3	0
HCM Lane LOS		-	-	A	Α	A
HCM 95th %tile Q(veh	)	-	-	0.2	0	-
· ·						

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Intersection						
Int Delay, s/veh	7.5					
	EBL	EBT	WPT	\\/DD	CDI	SBR
	ERF		WBT	WBR	SBL	SRK
Lane Configurations	<b>- - 4</b>	4	<b>₽</b>	0	¥	40
Traffic Vol, veh/h	51	0	0	0	0	18
Future Vol, veh/h	51	0	0	0	0	18
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	60	0	0	0	0	21
Major/Minor Ma	ajor1	N	//ajor2	N	/linor2	
Conflicting Flow All	<u> 1</u>	0	-	0	121	1
Stage 1		-	_	-	1	_
Stage 2	_	_	_	<u>-</u>	120	<u>-</u>
Critical Hdwy	4.1	_	-	_	6.4	6.2
Critical Hdwy Stg 1	4.1	_	_		5.4	0.2
Critical Hdwy Stg 2	<u>-</u>		-		5.4	_
Follow-up Hdwy	2.2	_	_	_	3.5	3.3
	1635		-	-	879	1090
Stage 1	-	_	-	_	1028	1030
Stage 2		-	-	-	910	-
	-	-	-		910	-
Platoon blocked, %	1605	-	-	-	0.46	1000
·	1635	-	-	-	846	1090
Mov Cap-2 Maneuver	-	-	-		846	-
Stage 1	-	-	-	-	990	-
Stage 2	-	-	-	-	910	-
Approach	EB		WB		SB	
HCM Control Delay, s	7.3		0		8.4	
HCM LOS	1.0		•		A	
110111 200					,,	
		===		MOT	14/00	0DI 4
		EBL	EBT	WBT	WBR :	
Minor Lane/Major Mvmt						
Capacity (veh/h)		1635	-	-		1090
Capacity (veh/h) HCM Lane V/C Ratio		1635 0.037	-	-	-	0.019
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		1635 0.037 7.3	0	- - -		0.019 8.4
Capacity (veh/h) HCM Lane V/C Ratio		1635 0.037			-	0.019

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Intersection						
Int Delay, s/veh	44.6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	ኘ	7	<b>↑</b>	7	ሻ	<u>□ □ □ □</u>
Traffic Vol, veh/h	167	267	229	196	315	241
Future Vol, veh/h	167	267	229	196	315	241
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	150	170	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	9	14	4	4	0	7
Mvmt Flow	190	303	260	223	358	274
Major/Minor	Minor1	N	Major1		Major2	
	1250	260	0		483	0
Conflicting Flow All	260	200		0	403	
Stage 1 Stage 2	990	-	-	-	-	-
Critical Hdwy	6.49	6.34	-	-	4.1	-
Critical Hdwy Stg 1	5.49	0.34	-	-	4.1	-
Critical Hdwy Stg 1 Critical Hdwy Stg 2	5.49	-	-		-	-
Follow-up Hdwy	3.581	3.426	-	-	2.2	-
Pot Cap-1 Maneuver	~ 185	750	-	-	1090	-
Stage 1	767	130	_	<u>-</u>	1030	-
Stage 2	349		_	_	_	_
Platoon blocked, %	J+3		_	<u>-</u>	_	<u>-</u>
Mov Cap-1 Maneuver	~ 12/	750	_	<u>-</u>	1090	_
Mov Cap-1 Maneuver		750	_	_	1090	_
Stage 1	767	_	_	-	-	
Stage 2	235	-	-	_	_	-
Slaye Z	200	_	_	<u>-</u>	_	-
Approach	WB		NB		SB	
HCM Control Delay, s			0		5.6	
HCM LOS	F					
Minor Lane/Major Mvm	nt	NBT	NRDV	VBLn1V	VRI n2	SBL
	IL		NDKV	124	750	1090
Capacity (veh/h) HCM Lane V/C Ratio		-	-		0.405	
HCM Control Delay (s)		-		338.4	13	9.9
HCM Lane LOS		_	-Þ	330.4 F		9.9 A
HCM 95th %tile Q(veh	\	-	-	13.5	B 2	1.4
`	1		_	10.0		1.4
Notes						
~: Volume exceeds ca	pacity	\$: De	lay exc	eeds 30	)0s	+: Comp

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Intersection							
Int Delay, s/veh	2.7						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	ሻ	7	<b>↑</b>	7	ሻ	<u>□</u>	
Traffic Vol, veh/h	9	132	498	11	149	557	
Future Vol, veh/h	9	132	498	11	149	557	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	- Clop	None	-	None	-	None	
Storage Length	0	100	_	100	100	-	
Veh in Median Storage		-	0	-	-	0	
Grade, %	0	_	0	_	_	0	
Peak Hour Factor	88	88	88	88	88	88	
	00	00	00		00		
Heavy Vehicles, %				0		0	
Mvmt Flow	10	150	566	13	169	633	
Major/Minor I	Minor1	N	Major1	ı	Major2		ĺ
Conflicting Flow All	1537	566	0	0	579	0	
Stage 1	566	_	_	_	_	_	
Stage 2	971	_	_	_	_	_	
Critical Hdwy	6.4	6.2	_	_	4.1	_	
Critical Hdwy Stg 1	5.4	-	_	_		_	
Critical Hdwy Stg 2	5.4	_	_	_	_	_	
Follow-up Hdwy	3.5	3.3	_	_	2.2	_	
Pot Cap-1 Maneuver	129	528	_	_	1005	_	
Stage 1	572	J20 -	_	_	1005	_	
	370		-	_	-	-	
Stage 2	3/0	-	-	-	-	-	
Platoon blocked, %	407	F00	-	-	4005	-	
Mov Cap-1 Maneuver	107	528	-	-	1005	-	
Mov Cap-2 Maneuver	107	-	-	-	-	-	
Stage 1	572	-	-	-	-	-	
Stage 2	308	-	-	-	-	-	
Approach	WB		NB		SB		
HCM Control Delay, s	16.3		0		2		
HCM LOS	C				_		
TIOW EOO							
Minor Lane/Major Mvm	<u>it</u>	NBT	NBRV	VBLn1V		SBL	
Capacity (veh/h)		-	-	107	528	1005	
HCM Lane V/C Ratio		-	-	0.096	0.284	0.168	
HCM Control Delay (s)		-	-	42.2	14.5	9.3	
HCM Lane LOS		-	-	Е	В	Α	
HCM 95th %tile Q(veh)		-	-	0.3	1.2	0.6	

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Intersection												
Int Delay, s/veh	0.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	0	2	0	14	1	2	0	613	15	2	690	1
Future Vol, veh/h	0	2	0	14	1	2	0	613	15	2	690	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	_	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	_	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	0	50	0	9	100	0	0	6	8	0	8	0
Mvmt Flow	0	2	0	16	1	2	0	697	17	2	784	1
Major/Minor N	Minor2			Minor1			Major1		N	/lajor2		
Conflicting Flow All	1496	1503	785	1496	1495	706	785	0	0	714	0	0
Stage 1	789	789	-	706	706	-	-	-	-	-	-	-
Stage 2	707	714	-	790	789	-	-	-	-	-	-	-
Critical Hdwy	7.1	7	6.2	7.19	7.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	6	-	6.19	6.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	6	-	6.19	6.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4.45	3.3	3.581	4.9	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	102	96	396	97	76	439	843	-	-	895	-	-
Stage 1	387	340	-	416	320	-	-	-	-	-	-	-
Stage 2	429	370	-	373	288	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	100	96	396	95	76	439	843	-	-	895	-	-
Mov Cap-2 Maneuver	100	96	-	95	76	-	-	-	-	-	-	-
Stage 1	387	339	-	416	320	-	-	-	-	-	-	-
Stage 2	425	370	-	369	287	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	43.4			47.8			0			0		
HCM LOS	Е			Е								
Minor Lane/Major Mvm	t	NBL	NBT	NBR	EBLn1V	WBLn1	SBL	SBT	SBR			
Capacity (veh/h)		843	-	-	96	103	895	-	-			
HCM Lane V/C Ratio		-	-	-		0.188	0.003	-	-			
HCM Control Delay (s)		0	-	-	43.4		9	0	-			
HCM Lane LOS		Α	-	-	Е	Е	Α	Α	-			
HCM 95th %tile Q(veh)		0	-	-	0.1	0.7	0	-	-			

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Intersection																		
Int Delay, s/veh	603.2																	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR						
Lane Configurations		र्स	7	Ĭ	f)			र्स	7		4							
Traffic Vol, veh/h	9	536	441	262	525	2	361	1	249	0	0	0						
uture Vol, veh/h	9	536	441	262	525	2	361	1	249	0	0	0						
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0							
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop						
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None						
Storage Length	-	-	90	170	-	-	-	-	125	-	-	-						
√eh in Median Storage	e, # -	0	-	-	0	-	-	0	-	-	0	-						
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-						
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92							
leavy Vehicles, %	43	5	5	9	13	0	5	0	6	0	0							
//vmt Flow	10	583	479	285	571	2	392	1	271	0	0	0						
	Major1		١	Major2		ľ	Minor1			Minor2								
Conflicting Flow All	573	0	0	1062	0	0	1745	1746	583	2121	2224	572						
Stage 1	-	-	-	-	-	-	603	603	-	1142		-						
Stage 2	-	-	-	-	-	-	1142	1143	-	979		-						
ritical Hdwy	4.53	-	-	4.19	-	-	7.15	6.5	6.26	7.1		6.2						
ritical Hdwy Stg 1	-	-	-	-	-	-	6.15	5.5	-	6.1		-						
ritical Hdwy Stg 2	-	-	-	-	-	-	6.15	5.5	-	6.1	5.5	-						
ollow-up Hdwy	2.587	-	-	2.281	-	-	3.545		3.354	3.5	4							
ot Cap-1 Maneuver	826	-	-	630	-	-	~ 66	87	505			523						
Stage 1	-	-	-	-	-	-	481	492	-	246		-						
Stage 2	-	-	-	-	-	-	~ 240	277	-	304	296	-						
Platoon blocked, %		-	-		-	-												
Nov Cap-1 Maneuver	826	-	-	630	-	-	~ 42	46	505			523						
Nov Cap-2 Maneuver	-	-	-	-	-	-	~ 42	46	-			-						
Stage 1	-	-	-	-	-	-	465	475	-	238		-						
Stage 2	-	-	-	-	-	-	~ 131	152	-	136	286	-						
Approach	EB			WB			NB			SB								
ICM Control Delay, s	0.1			5.1		\$ 2	2348.6			0								
HCM LOS							F			Α								
//Iinor Lane/Major Mvm	nt N	NBLn11	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1								
Capacity (veh/h)		42	505	826	-	-	630	-	-	-								
ICM Lane V/C Ratio		9.369	0.536	0.012	-	-	0.452	-	-	-								
ICM Control Delay (s)	\$ 3	3950.2	20.1	9.4	0	-	15.3	-	-	0								
ICM Lane LOS		F	С	Α	Α	-	С	-	-	Α								
HCM 95th %tile Q(veh)		47.1	3.1	0	-	-	2.3	-	-	-								
lotes																		
: Volume exceeds cap	pacity	\$: De	lay exc	eeds 30	00s -	+: Comr	outation	Not De	fined	*: All r	maior v	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
		Ţ, <b>_</b> Q	,			- <del>-</del> - · · · · · · · · · · · · · · · · · ·					92 92 92 0 0 0 0 0 0 0 0							

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Intersection												
Int Delay, s/veh	1.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	23	735	26	17	727	10	16	0	14	6	5	24
Future Vol, veh/h	23	735	26	17	727	10	16	0	14	6	5	24
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	5	5	0	0	6	13	0	0	0	0	0	4
Mvmt Flow	24	774	27	18	765	11	17	0	15	6	5	25
Major/Minor	Major1		ı	Major2			Minor1		N	/linor2		
Conflicting Flow All	776	0	0	801	0	0	1658	1648	788	1650	1656	771
Stage 1	-	-	-	-	-	-	836	836	-	807	807	-
Stage 2	_	-	-	-	_	_	822	812	_	843	849	-
Critical Hdwy	4.15	-	_	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.24
Critical Hdwy Stg 1	-	-	-		-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	_	-	_	_	_	_	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.245	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.336
Pot Cap-1 Maneuver	827	-	_	831	_	_	79	100	394	80	99	397
Stage 1	_	-	-	-	-	-	364	385	-	378	397	-
Stage 2	_	-	-	_	_	_	371	395	-	361	380	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	827	-	-	831	-	-	66	91	394	72	90	397
Mov Cap-2 Maneuver	-	-	-	_	-	-	66	91	-	72	90	-
Stage 1	-	_	-	-	-	-	345	365	-	358	382	-
Stage 2	-	-	-	-	-	-	330	380	-	329	360	-
Ü												
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.3			0.2			51.6			30.8		
HCM LOS							F			D		
Minor Lane/Major Mvm	ıt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBLn1			
Capacity (veh/h)		108	827	-		831	-	-	176			
HCM Lane V/C Ratio		0.292		_		0.022	_		0.209			
HCM Control Delay (s)		51.6	9.5	0	_	9.4	0	_	30.8			
HCM Lane LOS		51.0 F	3.5 A	A	_	J.4	A	_	D			
HCM 95th %tile Q(veh)		1.1	0.1	-	_	0.1	-	_	0.8			
110111 00til 70tilo Q(VOII)		111	0.1			0.1			0.0			

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Intersection												
Int Delay, s/veh	1.4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			सी	7		4	
Traffic Vol, veh/h	39	670	52	29	704	15	3	0	1	6	0	47
Future Vol, veh/h	39	670	52	29	704	15	3	0	1	6	0	47
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	<u> </u>	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	90	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	10	7	2	4	13	17	33	0	0	20	0	11
Mvmt Flow	41	705	55	31	741	16	3	0	1	6	0	49
Major/Minor M	1ajor1		ľ	Major2			Minor1		ľ	Minor2		
Conflicting Flow All	757	0	0	760	0	0	1651	1634	733	1626	1653	749
Stage 1	-	-	-	-	-	-	815	815	-	811	811	-
Stage 2	-	-	-	-	-	-	836	819	-	815	842	-
Critical Hdwy	4.2	-	-	4.14	-	-	7.43	6.5	6.2	7.3	6.5	6.31
Critical Hdwy Stg 1	-	-	-	-	-	-	6.43	5.5	-	6.3	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.43	5.5	-	6.3	5.5	-
Follow-up Hdwy	2.29	-	-	2.236	-	-	3.797	4	3.3	3.68	4	3.399
Pot Cap-1 Maneuver	819	-	-	843	-	-	66	102	424	74	99	398
Stage 1	-	-	-	-	-	-	330	394	-	348	396	-
Stage 2	-	-	-	-	-	-	321	392	-	346	383	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	819	-	-	843	-	-	51	87	424	65	85	398
Mov Cap-2 Maneuver	-	-	-	-	-	-	51	87	-	65	85	-
Stage 1	-	-	-	-	-	-	301	359	-	317	371	-
Stage 2	-	-	-	-	-	-	263	367	-	315	349	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.5			0.4			63.5			23.3		
HCM LOS							F			С		
Minor Lane/Major Mvmt	<u> </u>	NBLn11	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1		
Capacity (veh/h)		51	424	819	-	-	843	_	-	252		
HCM Lane V/C Ratio		0.062		0.05	-	-	0.036	-	-	0.221		
HCM Control Delay (s)		80.2	13.5	9.6	0	-	9.4	0	-			
HCM Lane LOS		F	В	Α	Α	-	Α	Α	-	С		
HCM 95th %tile Q(veh)		0.2	0	0.2	-	-	0.1	-	-	0.8		

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Intersection						
Int Delay, s/veh	0.8					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>1</b> >		1100	4	¥	H.DIK
Traffic Vol, veh/h	659	18	1	724	28	2
Future Vol, veh/h	659	18	1	724	28	2
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		Stop -	None
Storage Length	_	-	_	-	0	-
Veh in Median Storag		_	_	0	0	_
Grade, %	0, # 0	_	_	0	0	<u>-</u>
Peak Hour Factor	95	95	95	95	95	95
	8	95	95	13	95	95
Heavy Vehicles, %						
Mvmt Flow	694	19	1	762	29	2
Major/Minor	Major1	N	Major2	N	Minor1	
Conflicting Flow All	0	0	713	0	1468	704
Stage 1	_	_		_	704	-
Stage 2	_	_	_	_	764	_
Critical Hdwy	_	_	4.1	_	6.49	6.2
Critical Hdwy Stg 1	_	_		_	5.49	-
Critical Hdwy Stg 2	_	_	_	_	5.49	_
Follow-up Hdwy	_	_	2.2		3.581	3.3
Pot Cap-1 Maneuver	_	_	896	_	136	440
Stage 1	_		030		478	440
Stage 2			-	_	448	
Platoon blocked, %	-		-		440	-
	-	-	000	-	100	440
Mov Cap-1 Maneuver		-	896	-	136	440
Mov Cap-2 Maneuver		-	-	-	136	-
Stage 1	-	-	-	-	478	-
Stage 2	-	-	-	-	447	-
Approach	EB		WB		NB	
HCM Control Delay, s			0		37.2	
HCM LOS	0		U		E	
HOW LOO					<u> </u>	
Minor Lane/Major Mvr	nt I	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		143	-	-	896	-
HCM Lane V/C Ratio		0.221	-	-	0.001	-
HCM Control Delay (s	i)	37.2	-	-	9	0
HCM Lane LOS		Е	-	-	Α	Α
HCM 95th %tile Q(veh	۱)	0.8	-	-	0	-

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Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	LDL			אטוז	SBL ₩	ומט
Lane Configurations	0	<b>4</b>	<b>7</b> 13	1		10
Traffic Vol, veh/h Future Vol, veh/h	8	644		1	0	
	8	644	713	1	0	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	•	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	17	8	13	0	0	12
Mvmt Flow	8	678	751	1	0	11
Major/Minor	Majort	N	Majora	N	/lines?	
	Major1		Major2		Minor2	7-0
Conflicting Flow All	752	0	-	0	1446	752
Stage 1	-	-	-	-	752	-
Stage 2	-	-	-	-	694	-
Critical Hdwy	4.27	-	-	-	6.4	6.32
Critical Hdwy Stg 1			-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.353	-	-	-	3.5	3.408
Pot Cap-1 Maneuver	794	-	-	-	147	394
Stage 1	-	-	-	-	469	-
Stage 2	-	-	-	-	499	-
Platoon blocked, %		-	_	_		
Mov Cap-1 Maneuver	794	_	_	_	145	394
Mov Cap-2 Maneuver	-	_	_	_	145	-
Stage 1	_	_	_	_	461	_
Stage 2		_			499	_
Slaye Z	_	<u>-</u>	_	<u>-</u>	433	<u>-</u>
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		14.4	
HCM LOS	J. 1				В	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		794	-	-	-	394
HCM Lane V/C Ratio		0.011	-	-	-	0.027
HCM Control Delay (s)	)	9.6	0	-		14.4
						В
HCM Lane LOS		Α	А	-	-	ט
HCM Lane LOS HCM 95th %tile Q(veh	)	A 0	A -	-	_	0.1

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Intersection						
Int Delay, s/veh	4					
			==			
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		र्स	f)		¥	
Traffic Vol, veh/h	102	549	608	36	36	93
Future Vol, veh/h	102	549	608	36	36	93
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	29	6	12	50	0	14
Mvmt Flow	107	578	640	38	38	98
NA = : = :/NA::= =	A-!. A		4-1-0		Aller of Co.	
	Major1		Major2		/linor2	
Conflicting Flow All	678	0	-		1451	659
Stage 1	-	-	-	-	659	-
Stage 2	-	-	-	-	792	-
Critical Hdwy	4.39	-	-	-	6.4	6.34
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.461	-	-	-	3.5	3.426
Pot Cap-1 Maneuver	800	-	-	-	145	443
Stage 1	-	-	-	-	518	-
Stage 2	-	-	-	-	450	-
Platoon blocked, %		-	-	_		
Mov Cap-1 Maneuver	800	-	_	-	116	443
Mov Cap-2 Maneuver	-	_	-	-	116	-
Stage 1	_	_	_	-	416	-
Stage 2	_	_	_	_	450	_
Olago Z					100	
Approach	EB		WB		SB	
HCM Control Delay, s	1.6		0		35.8	
HCM LOS					Е	
Minor Lane/Major Mvm	t	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		800	LDI	1101	יייוטויי	248
HCM Lane V/C Ratio		0.134	-	•	-	0.548
HCM Control Delay (s)		10.2	0	-		35.8
HCM Lane LOS				-	-	
		В	Α	-	-	E
HCM 95th %tile Q(veh)		0.5	-	-	-	3

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Intersection						
Int Delay, s/veh	3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	**	WDIX	<b>1</b>	NDIX	ODL	<u>⊕</u>
Traffic Vol, veh/h	63	4	71	67	21	64
Future Vol, veh/h	63	4	71	67	21	64
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	_	None	-	None
Storage Length	0	-	-	-	_	-
Veh in Median Storage,		-	0	_	_	0
Grade, %	0	_	0	_	-	0
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	23	33	0	0
Mymt Flow	74	5	84	79	25	75
WWIICTIOW	17	U	04	10	20	70
	/linor1		Major1		Major2	
Conflicting Flow All	249	124	0	0	163	0
Stage 1	124	-	-	-	-	-
Stage 2	125	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	744	932	-	-	1428	-
Stage 1	907	-	-	-	-	-
Stage 2	906	-	-	-	-	-
Platoon blocked, %			-	_		_
Mov Cap-1 Maneuver	731	932	-	-	1428	-
Mov Cap-2 Maneuver	731	-	_	_	-	_
Stage 1	907	_	-	_	_	_
Stage 2	890	<u>-</u>	_	_	_	_
Olugo Z	000					
Approach	WB		NB		SB	
HCM Control Delay, s	10.4		0		1.9	
HCM LOS	В					
Minor Lane/Major Mvmt	·	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		- 1401	-		1428	-
HCM Lane V/C Ratio		_		0.106		-
HCM Control Delay (s)		-	-	10.4	7.6	0
HCM Lane LOS		-	-	10.4 B	7.0 A	A
HCM 95th %tile Q(veh)		-	-	0.4	0.1	- A
HOW SOUT MUTE Q(VEII)				0.4	U. I	-

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Intersection						
Int Delay, s/veh	5.3					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u> </u>	LDIX	VVDL	₩ <u>₩</u>	NDL NDL	TIDIX
Traffic Vol, veh/h	29	1	38	23		49
Future Vol, veh/h	29	1	38	23	1	49
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	- Olop	None
Storage Length	<u>-</u>	-	_	-	0	-
Veh in Median Storage		-	_	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	22	0	33	11	0	33
Mymt Flow	34	1	45	27	1	58
	01		- 10		1	- 00
		_				
	Major1		Major2		Minor1	
Conflicting Flow All	0	0	35	0	152	35
Stage 1	-	-	-	-	35	-
Stage 2	-	-	-	-	117	-
Critical Hdwy	-	-	4.43	-	6.4	6.53
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.497	-		3.597
Pot Cap-1 Maneuver	-	-	1398	-	844	956
Stage 1	-	-	-	-	993	-
Stage 2	-	-	-	-	913	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1398	-	816	956
Mov Cap-2 Maneuver	-	-	-	-	816	-
Stage 1	-	-	-	-	993	-
Stage 2	-	-	-	-	883	-
<b>J</b>						
A			\A/D		ND	
Approach	EB		WB		NB	
HCM Control Delay, s	0		4.8		9	
HCM LOS					Α	
Minor Lane/Major Mvn	nt I	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		953			1398	-
HCM Lane V/C Ratio		0.062	-		0.032	_
HCM Control Delay (s	)	9	_	_	7.7	0
HCM Lane LOS	1	A	_	_	Α.	A
HCM 95th %tile Q(veh	1)	0.2	_	_	0.1	-
Jili ootii 70tiio Q(Voi	7	J.L			J. 1	

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Saturday Peak Hour

HCM 95th %tile Q(veh)

0.2

Intersection						
Int Delay, s/veh	6.7					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		सी	₽		Y	
Traffic Vol, veh/h	72	11	10	5	5	55
Future Vol, veh/h	72	11	10	5	5	55
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	85	13	12	6	6	65
Major/Minor	Najor1	٨	/laior2	N	/linor2	
	Major1		Major2			4 =
Conflicting Flow All	18	0	-	0	198	15
Stage 1	-	-	-	-	15	-
Stage 2	-	-	-	-	183	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1612	-	-	-	795	1070
Stage 1	-	-	-	-	1013	-
Stage 2	-	-	-	-	853	_
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1612	-	_	-	753	1070
Mov Cap-2 Maneuver	_	_	_	_	753	-
Stage 1	_	_	_	_	959	_
Stage 2	_	_	_	_	853	_
Olage 2					000	
Approach	EB		WB		SB	
HCM Control Delay, s	6.4		0		8.7	
HCM LOS					Α	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	QRI n1
			LDI	VVDI		
Capacity (veh/h)		1612	-	-	-	1034
HCM Carter Dalay (a)		0.053	-	-		0.068
HCM Control Delay (s)		7.4	0	-	-	8.7
HCM Lane LOS		A	Α	-	-	A

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0.2

Intersection						
Int Delay, s/veh	5.2					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥	11511	<b>^</b>	11511	UDL	<u>⊕</u>
Traffic Vol, veh/h	56	32	2	55	16	19
Future Vol, veh/h	56	32	2	55	16	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-		-	None
Storage Length	0	-	_	-	_	-
Veh in Median Storage		_	0	_	_	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0
Mymt Flow	66	38	2	65	19	22
IVIVIIIL I IUW	00	50		03	13	ZZ
Major/Minor N	Minor1		Major1		Major2	
Conflicting Flow All	95	35	0	0	67	0
Stage 1	35	-	-	-	-	-
Stage 2	60	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	_	_	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	909	1044	-	_	1547	-
Stage 1	993	-	-	-	-	-
Stage 2	968	_	-	_	_	_
Platoon blocked, %			_	_		_
Mov Cap-1 Maneuver	898	1044	_	_	1547	_
Mov Cap-2 Maneuver	898	-	_	_	-	_
Stage 1	993	_	_	_	_	_
Stage 2	956	<u>-</u>	_	_	_	_
Olage 2	330					
Approach	WB		NB		SB	
HCM Control Delay, s	9.3		0		3.4	
HCM LOS	Α					
Minor Lane/Major Mvm	t	NBT	NRRV	WBLn1	SBL	SBT
Capacity (veh/h)		NDT	- INDIX	946	1547	-
HCM Lane V/C Ratio		-		0.109		-
HCM Control Delay (s)			-	9.3	7.4	0
HCM Lane LOS		-	-	9.3 A	7.4 A	A
HCM 95th %tile Q(veh)		-	-	0.4	0	- A
HOW SOUL WILLE CLIVEN)		-	-	0.4	U	-

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Intersection						
Int Delay, s/veh	7.5					
	EBL	EBT	WPT	W/PD	CDI	SBR
Movement Configurations	CDL		WBT	WBR	SBL	SBK
Lane Configurations	40	<del>વ</del>	<b>₽</b>	0	<b>Y</b>	4.5
Traffic Vol, veh/h	16	0	0	0	0	15
Future Vol, veh/h	16	0	0	0	0	15
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #		0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	19	0	0	0	0	18
Major/Minor Ma	ajor1	N	//ajor2	N	/linor2	
Conflicting Flow All	1	0	-	0	39	1
Stage 1	_	-	_	-	1	_
Stage 2	_	_	_	_	38	<u>-</u>
Critical Hdwy	4.1	_	_	_	6.4	6.2
Critical Hdwy Stg 1	4.1	_	_		5.4	0.2
Critical Hdwy Stg 2			-	_	5.4	_
Follow-up Hdwy	2.2	_	_	_	3.5	3.3
	1635		-	-	978	1090
Stage 1	-	_	-	_	1028	1030
Stage 2		-	-	-	990	-
	-	-	-		990	-
Platoon blocked, %	1605	-	-	-	000	1000
•	1635	-	-	-	966	1090
Mov Cap-2 Maneuver	-	-	-		966	-
Stage 1	-	-	-	-	1016	-
Stage 2	-	-	-	-	990	-
Approach	EB		WB		SB	
HCM Control Delay, s	7.2		0		8.4	
HCM LOS			•		A	
110111 200					, ,	
				\4/D.T	14/00	0DI 4
				WBT	WBR :	SBLn1
Minor Lane/Major Mvmt		EBL	EBT	וטוו		
Capacity (veh/h)		1635	- EBI	-	-	1090
Capacity (veh/h) HCM Lane V/C Ratio		1635 0.012	-	-	-	0.016
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		1635 0.012 7.2	- - 0	-	-	0.016 8.4
Capacity (veh/h) HCM Lane V/C Ratio		1635 0.012	-	-	-	0.016

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## APPENDIX O – 2026 MITIGATION OPERATIONAL ANALYSIS WORKSHEETS

Intersection						_	
Int Delay, s/veh	44.6						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	ሻ	7	<b>↑</b>	7	ሻ	<u>□ □ □ □</u>	
Traffic Vol, veh/h	167	267	229	196	315	241	
Future Vol, veh/h	167	267	229	196	315	241	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	- Olop	None				None	
Storage Length	0	0	_	150	170	-	
Veh in Median Storage		-	0	-	-	0	
Grade, %	e, # 0	-	0	-	-	0	
Peak Hour Factor	88	88	88	88	88	88	
Heavy Vehicles, %	9	14	4	4	0	7	
Mvmt Flow	190	303	260	223	358	274	
Major/Minor	Minor1	N	Major1	N	Major2		
Conflicting Flow All	1250	260	0	0	483	0	
Stage 1	260				400		
Stage 1 Stage 2	990	-	-	-	-	-	
		-	-	-		-	
Critical Hdwy	6.49	6.34	-	-	4.1	-	
Critical Hdwy Stg 1	5.49	-	-	-	-	-	
Critical Hdwy Stg 2	5.49	-	-	-	-	-	
Follow-up Hdwy		3.426	-	-	2.2	-	
Pot Cap-1 Maneuver	~ 185	750	-	-	1090	-	
Stage 1	767	-	-	-	-	-	
Stage 2	349	-	-	-	-	-	
Platoon blocked, %			-	-		-	
Mov Cap-1 Maneuver	~ 124	750	-	-	1090	-	
Mov Cap-2 Maneuver		-	-	-	-	-	
Stage 1	767	_	-	-	-	_	
Stage 2	235	-	_	-	_	-	
	_00						
Approach	WB		NB		SB		
HCM Control Delay, s	138.2		0		5.6		
HCM LOS	F						
N. 1 (0.4.1. 5.4.		NET	NID D	MDI 411	VDI C	051	0.77
Minor Lane/Major Mvn	nt	NBT	NRKA	VBLn1V		SBL	SBT
Capacity (veh/h)		-	-	124	750	1090	-
HCM Lane V/C Ratio		-	-		0.405		-
HCM Control Delay (s)			-\$	338.4	13	9.9	-
	)	-	Τ.				-
HCM Lane LOS		-	-	F	В	Α	-
		- -		F 13.5	B 2	1.4	-
HCM Lane LOS HCM 95th %tile Q(veh		-	-				
HCM Lane LOS	)	- -	-		2	1.4	

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Intersection						
Int Delay, s/veh	2.7					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	VVDL	WBK		NDK ř	ODL 1	
Traffic Vol, veh/h	<b>1</b>	132	<b>↑</b> 498		<b>1</b> 49	<b>↑</b> 557
Future Vol, veh/h	9	132	498	11	149	557
Conflicting Peds, #/hr	0	0	490	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop -	None	-	None	-	None
Storage Length	0	100	_	100	100	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	10	150	566	13	169	633
WWW.CT IOW	10	100	000	10	100	000
M - ' - / M '	N4"		1.1.4		4.1.0	
	Minor1		//ajor1		Major2	^
Conflicting Flow All	1537	566	0	0	579	0
Stage 1	566	-	-	-	-	-
Stage 2	971	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	129	528	-	-	1005	-
Stage 1	572	-	-	-	-	-
Stage 2	370	-	-	-	-	-
Platoon blocked, %	107	E00	-	-	1005	-
Mov Cap-1 Maneuver	107	528	-	-	1005	-
Mov Cap-2 Maneuver	107	-	-	-	-	-
Stage 1	572	-	-	-	-	-
Stage 2	308	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	16.3		0		2	
HCM LOS	С					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1V	VBLn2	SBL
Capacity (veh/h)		- 1101	-		528	1005
HCM Lane V/C Ratio		_		0.096		
HCM Control Delay (s)				42.2	14.5	9.3
HCM Lane LOS		_	_	E	В	Α
HCM 95th %tile Q(veh	)	_	-	0.3	1.2	0.6
	1			3.0	1.2	3.0

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Intersection												
Int Delay, s/veh	0.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	0	2	0	14	1	2	0	613	15	2	690	1
Future Vol, veh/h	0	2	0	14	1	2	0	613	15	2	690	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	_	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	_	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	0	50	0	9	100	0	0	6	8	0	8	0
Mvmt Flow	0	2	0	16	1	2	0	697	17	2	784	1
Major/Minor	Minor2			Minor1			Major1		ı	/lajor2		
		1502	785	1496	1/05	706	785	0		714	0	^
Conflicting Flow All	1496	1503 789			1495		7 00	0	0	/ 14	0	0
Stage 1	789		-	706	706	-	-	-	-	-	-	-
Stage 2	707	714	-	790	789	-	-	-	-	-	-	-
Critical Hdwy	7.1	7	6.2	7.19	7.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	6	-	6.19	6.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	6	-	6.19	6.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4.45	3.3	3.581	4.9	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	102	96	396	97	76	439	843	-	-	895	-	-
Stage 1	387	340	-	416	320	-	-	-	-	-	-	-
Stage 2	429	370	-	373	288	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	100	96	396	95	76	439	843	-	-	895	-	-
Mov Cap-2 Maneuver	100	96	-	95	76	-	-	-	-	-	-	-
Stage 1	387	339	-	416	320	-	-	-	-	-	-	-
Stage 2	425	370	-	369	287	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	43.4			47.8			0			0		
HCM LOS	E			E								
Minor Lane/Major Mvm	nt	NBL	NBT	NRR I	EBLn1V	VRI n1	SBL	SBT	SBR			
Capacity (veh/h)	TC .	843	-	-	96	103	895	-	יומט			
HCM Lane V/C Ratio		040				0.188		-	_			
HCM Control Delay (s)		0	-	-	43.4	47.8	0.003	0	-			
HCM Lane LOS		A	-	_	43.4 E	47.0 E	A	A				
HCM 95th %tile Q(veh	١	0	-	_	0.1	0.7	0 0	- A	-			
HOW JOHN JOHN WINE WINE		U	_	_	0.1	0.7	U	-	_			

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Intersection												
Int Delay, s/veh	1.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	23	735	26	17	727	10	16	0	14	6	5	24
Future Vol, veh/h	23	735	26	17	727	10	16	0	14	6	5	24
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	5	5	0	0	6	13	0	0	0	0	0	4
Mvmt Flow	24	774	27	18	765	11	17	0	15	6	5	25
Major/Minor N	/lajor1			Major2		N	Minor1		N	/linor2		
Conflicting Flow All	776	0	0	801	0	0	1658	1648	788	1650	1656	771
Stage 1	-	-	-	-	-	-	836	836	-	807	807	-
Stage 2	-	-	-	-	-	-	822	812	-	843	849	-
Critical Hdwy	4.15	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.24
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
. ,	2.245	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.336
Pot Cap-1 Maneuver	827	-	-	831	-	-	79	100	394	80	99	397
Stage 1	-	-	-	-	-	-	364	385	-	378	397	-
Stage 2	-	-	-	-	-	-	371	395	-	361	380	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	827	-	-	831	-	-	66	91	394	72	90	397
Mov Cap-2 Maneuver	-	-	-	-	-	-	66	91	-	72	90	-
Stage 1	-	-	-	-	-	-	345	365	-	358	382	-
Stage 2	-	-	-	-	-	-	330	380	-	329	360	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.3			0.2			51.6			30.8		
HCM LOS							F			D		
Minor Lane/Major Mvmt	t 1	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBLn1			
Capacity (veh/h)		108	827	-	-	831	-		176			
HCM Lane V/C Ratio		0.292		-	-	0.022	-		0.209			
HCM Control Delay (s)		51.6	9.5	0	-	9.4	0	-	30.8			
HCM Lane LOS		F	Α	A	-	Α	A	-	D			
HCM 95th %tile Q(veh)		1.1	0.1	-	-	0.1	-	-	0.8			

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Intersection												
Int Delay, s/veh	1.4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4	7		4	
Traffic Vol, veh/h	39	670	52	29	704	15	3	0	1	6	0	47
Future Vol, veh/h	39	670	52	29	704	15	3	0	1	6	0	47
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	90	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	10	7	2	4	13	17	33	0	0	20	0	11
Mvmt Flow	41	705	55	31	741	16	3	0	1	6	0	49
Major/Minor M	lajor1		ı	Major2			Minor1		N	Minor2		
Conflicting Flow All	757	0	0	760	0	0	1651	1634	733	1626	1653	749
Stage 1	-	_	_	-	_	_	815	815	-	811	811	-
Stage 2	_	_	_	-	_	_	836	819	_	815	842	-
Critical Hdwy	4.2	-	-	4.14	-	-	7.43	6.5	6.2	7.3	6.5	6.31
Critical Hdwy Stg 1	-	-	_	-	-	-	6.43	5.5	-	6.3	5.5	-
Critical Hdwy Stg 2	_	-	_	_	_	_	6.43	5.5	-	6.3	5.5	-
Follow-up Hdwy	2.29	-	_	2.236	-	-	3.797	4	3.3	3.68	4	3.399
Pot Cap-1 Maneuver	819	-	-	843	_	_	66	102	424	74	99	398
Stage 1	_	-	-	-	-	-	330	394	-	348	396	-
Stage 2	_	-	-	_	_	_	321	392	_	346	383	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	819	-	-	843	-	-	51	87	424	65	85	398
Mov Cap-2 Maneuver	-	-	-	-	-	-	51	87	-	65	85	-
Stage 1	-	-	-	-	-	-	301	359	-	317	371	-
Stage 2	-	-	-	-	-	-	263	367	-	315	349	-
<u> </u>												
Annroach	EB			WB			NB			SB		
Approach												
HCM Control Delay, s	0.5			0.4			63.5			23.3		
HCM LOS							F			С		
Minor Lane/Major Mvmt		NBLn1 I	VBLn2	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1		
Capacity (veh/h)		51	424	819	-	-	843	-	-	252		
HCM Lane V/C Ratio		0.062	0.002	0.05	-	-	0.036	-	-	0.221		
HCM Control Delay (s)		80.2	13.5	9.6	0	-	9.4	0	-	23.3		
HCM Lane LOS		F	В	Α	Α	-	Α	Α	-	С		
HCM 95th %tile Q(veh)		0.2	0	0.2	-	-	0.1	-	-	8.0		

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Intersection						
Int Delay, s/veh	0.8					
			14/5	14/5-		
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	Þ			र्स	¥	
Traffic Vol, veh/h	659	18	1	724	28	2
Future Vol, veh/h	659	18	1	724	28	2
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	8	0	0	13	9	0
Mvmt Flow	694	19	1	762	29	2
		_				
_ <del>-</del>	ajor1		/lajor2		Minor1	
Conflicting Flow All	0	0	713	0	1468	704
Stage 1	-	-	-	-	704	-
Stage 2	-	-	-	-	764	-
Critical Hdwy	-	-	4.1	-	6.49	6.2
Critical Hdwy Stg 1	-	-	-	-	5.49	-
Critical Hdwy Stg 2	-	-	-	-	5.49	-
Follow-up Hdwy	-	-	2.2	-	3.581	3.3
Pot Cap-1 Maneuver	-	-	896	-	136	440
Stage 1	-	-	-	-	478	-
Stage 2	-	-	-	_	448	-
Platoon blocked, %	_	_		_		
Mov Cap-1 Maneuver	_	-	896	_	136	440
Mov Cap-2 Maneuver	_	_	-	_	136	-
Stage 1		-	_	_	478	
•	-	_		_	447	
Stage 2	-	-	-	-	447	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		37.2	
HCM LOS	J				E	
TOW LOO						
Minor Lane/Major Mvmt	1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		143	-	-	896	-
HCM Lane V/C Ratio		0.221	-	-	0.001	-
HCM Control Delay (s)		37.2	-	-	9	0
HCM Lane LOS		Е	-	-	Α	Α
HCM 95th %tile Q(veh)		0.8	-	-	0	-

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Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	ĵ.		W	
Traffic Vol, veh/h	8	644	713	1	0	10
Future Vol, veh/h	8	644	713	1	0	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage	. # -	0	0	_	0	-
Grade, %	-	0	0	_	0	_
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	17	8	13	0	0	12
Mymt Flow	8	678	751	1	0	11
IVIVIIIL FIUW	0	0/0	731	I	U	
Major/Minor	Major1	<u> </u>	Major2	<u> </u>	/linor2	
Conflicting Flow All	752	0	-	0	1446	752
Stage 1	-	-	-	-	752	-
Stage 2	-	-	-	-	694	-
Critical Hdwy	4.27	_	_	_	6.4	6.32
Critical Hdwy Stg 1		-	-	_	5.4	-
Critical Hdwy Stg 2	_	_	_	_	5.4	-
Follow-up Hdwy	2.353	_	_	_		3.408
Pot Cap-1 Maneuver	794	_	-	_	147	394
Stage 1	-	_	_	_	469	-
Stage 2	_			_	499	_
Platoon blocked, %		_	_	-	T00	
Mov Cap-1 Maneuver	794	_	_	<u>-</u>	145	394
Mov Cap-1 Maneuver	134	_		<u>-</u>	145	334
		-			461	
Stage 1	-	-	-	-		-
Stage 2	-	-	-	-	499	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		14.4	
HCM LOS					В	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR :	
Capacity (veh/h)		794	-	-	-	394
HCM Lane V/C Ratio		0.011	-	-	-	0.027
HCM Control Delay (s)		9.6	0	-	-	14.4
HCM Lane LOS		Α	Α	-	-	В
HCM 95th %tile Q(veh	)	0	-	-	-	0.1

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Intersection							
Int Delay, s/veh	2.9						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	T T	<u></u>	₩ <u></u>	וטייי	JDL Š	7	
Traffic Vol, veh/h	102	549	608	36	36	93	
Future Vol, veh/h	102	549	608	36	36	93	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	100	-	-	-	0	100	
Veh in Median Storage	e,# -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	95	95	95	95	95	95	
Heavy Vehicles, %	29	6	12	50	0	14	
Mvmt Flow	107	578	640	38	38	98	
Major/Minor	Major1	N	Major2	N	/linor2		
Conflicting Flow All	678	0	-	0	1451	659	
Stage 1	-	-	-	-	659	-	
Stage 2	-	-	-	-	792	-	
Critical Hdwy	4.39	-	-	-	6.4	6.34	
Critical Hdwy Stg 1	-	-	-	-	5.4	-	
Critical Hdwy Stg 2	-	-	-	-	5.4	-	
Follow-up Hdwy	2.461	-	-	-		3.426	
Pot Cap-1 Maneuver	800	-	-	-	145	443	
Stage 1	-	-	-	-	518	-	
Stage 2	-	-	-	-	450	-	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver	800	-	-	-	126	443	
Mov Cap-2 Maneuver	-	-	-	-	126	-	
Stage 1	-	-	-	-	449	-	
Stage 2	-	-	-	-	450	-	
Approach	EB		WB		SB		
HCM Control Delay, s	1.6		0		23.8		
HCM LOS					С		
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WRR	SBLn1 S	SRI n2
Capacity (veh/h)	IC.	800	LDI	1101	- 1001	126	443
HCM Lane V/C Ratio		0.134		-		0.301	
HCM Control Delay (s)		10.2	-	_	_	45.4	15.4
HCM Lane LOS		10.2 B	_	_	_	43.4 E	C
HCM 95th %tile Q(veh	)	0.5	_	_		1.2	0.8
HOM Jour Joure Q(Veri	1	0.0				1.2	0.0

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Intersection						
Int Delay, s/veh	3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	**		<b>f</b>			4
Traffic Vol, veh/h	63	4	71	67	21	64
Future Vol, veh/h	63	4	71	67	21	64
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	_	0
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	23	33	0	0
Mvmt Flow	74	5	84	79	25	75
		-				
NA ' (NA'					4 : 0	
	Minor1		Major1		Major2	
Conflicting Flow All	249	124	0	0	163	0
Stage 1	124	-	-	-	-	-
Stage 2	125	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	744	932	-	-	1428	-
Stage 1	907	-	-	-	-	-
Stage 2	906	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	731	932	-	-	1428	-
Mov Cap-2 Maneuver	731	-	-	-	-	-
Stage 1	907	-	-	-	-	-
Stage 2	890	-	-	-	-	-
, and the second						
Annroach	MD		ND		CD	
Approach	WB		NB		SB	
HCM Control Delay, s	10.4		0		1.9	
HCM LOS	В					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	741	1428	-
HCM Lane V/C Ratio		-	-	0.106		-
HCM Control Delay (s)		-	-	10.4	7.6	0
HCM Lane LOS		-	-	В	A	A
HCM 95th %tile Q(veh	)	-	-	0.4	0.1	-
	,					

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Intersection						
Int Delay, s/veh	5.3					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u> </u>			4	¥	
Traffic Vol, veh/h	29	1	38	23	1	49
Future Vol, veh/h	29	1	38	23	1	49
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	_	-	_	-	0	-
Veh in Median Storag	ie,# 0	_	_	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	22	0	33	11	0	33
Mymt Flow	34	1	45	27	1	58
IVIVIIIL FIOW	34		45	21	ı	50
Major/Minor	Major1	ľ	Major2	ı	Minor1	
Conflicting Flow All	0	0	35	0	152	35
Stage 1	-	-	_	_	35	-
Stage 2	-	-	_	_	117	-
Critical Hdwy	_	_	4.43	_	6.4	6.53
Critical Hdwy Stg 1	_	_	-	_	5.4	-
Critical Hdwy Stg 2	_	_	_	_	5.4	_
Follow-up Hdwy	_	_	2.497	_		3.597
Pot Cap-1 Maneuver	_	_	1398	_	844	956
Stage 1	_	_	-	_	993	-
Stage 2	_	_	_	_	913	_
Platoon blocked, %	_	_	_	_	313	_
Mov Cap-1 Maneuver			1398	_	816	956
		-			816	
Mov Cap-2 Maneuver		-	-	-		-
Stage 1	-	-	-	-	993	-
Stage 2	-	-	-	-	883	-
Approach	EB		WB		NB	
HCM Control Delay, s			4.8		9	
HCM LOS	, ,		4.0		A	
TICIVI LOS						
Minor Lane/Major Mvi	mt l	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		953	-	-	1398	-
HCM Lane V/C Ratio		0.062	-	-	0.032	-
HCM Control Delay (s		9	-	-	7.7	0
HCM Lane LOS		Α	-	-	Α	Α
HCM 95th %tile Q(vel	h)	0.2	-	-	0.1	-

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Intersection						
Int Delay, s/veh	6.7					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	EDL			WDK		SDK
Lane Configurations	70	<u>ર્</u> ન	<b>}</b>	_	Y	EE
Traffic Vol, veh/h	72	11	10	5	5	55
Future Vol, veh/h	72	11	10	5	5	55
Conflicting Peds, #/hr	0	0	0	0	0	0
•	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length		-	-	-	0	-
Veh in Median Storage, #		0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	85	13	12	6	6	65
Major/Minor Ma	ajor1	N	Major2	N	Minor2	
	18			0	198	15
Conflicting Flow All		0	-			
Stage 1	-	-	-	-	15	-
Stage 2	-	-	-	-	183	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1612	-	-	-	795	1070
Stage 1	-	-	-	-	1013	-
Stage 2	-	-	-	-	853	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1612	-	-	-	753	1070
Mov Cap-2 Maneuver	-	-	-	-	753	-
Stage 1	_	-	_	_	959	_
Stage 2	_	-	_	_	853	_
omge =						
Approach	EB		WB		SB	
HCM Control Delay, s	6.4		0		8.7	
HCM LOS					Α	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR :	SRI n1
		1612	LDI	-		1034
Capacity (veh/h)			-			
HCM Lana V/C Datio		0.053	-	-		0.068
HCM Cantrol Dalay (a)		7 /	Λ			
HCM Control Delay (s)		7.4	0	-	-	8.7
		7.4 A 0.2	0 A	-	-	0.7 A 0.2

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Intersection						
Int Delay, s/veh	5.2					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		4			4
Traffic Vol, veh/h	56	32	2	55	16	19
Future Vol, veh/h	56	32	2	55	16	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	66	38	2	65	19	22
			=			
N.A. '. (N.A.	N 4:				4 : 0	
	Minor1		Major1		Major2	
Conflicting Flow All	95	35	0	0	67	0
Stage 1	35	-	-	-	-	-
Stage 2	60	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	909	1044	-	-	1547	-
Stage 1	993	-	-	-	-	-
Stage 2	968	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	898	1044	-	-	1547	-
Mov Cap-2 Maneuver	898	-	-	-	-	-
Stage 1	993	-	-	-	-	-
Stage 2	956	-	-	_	-	-
J. II. G						
Δ	14/0		, LE		0.5	
Approach	WB		NB		SB	
HCM Control Delay, s	9.3		0		3.4	
HCM LOS	Α					
Minor Lane/Major Mvr	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	946	1547	-
HCM Lane V/C Ratio		-	_	0.109		-
HCM Control Delay (s	)	-	-	9.3	7.4	0
HCM Lane LOS		-	-	A	Α	A
HCM 95th %tile Q(veh	1)	-	_	0.4	0	-
	,					

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Intersection						
Int Delay, s/veh	7.5					
	EBL	EBT	WPT	W/PD	CDI	SBR
Movement Configurations	CDL		WBT	WBR	SBL	SBK
Lane Configurations	40	<del>વ</del>	<b>₽</b>	0	<b>Y</b>	4.5
Traffic Vol, veh/h	16	0	0	0	0	15
Future Vol, veh/h	16	0	0	0	0	15
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #		0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	19	0	0	0	0	18
Major/Minor Ma	ajor1	N	//ajor2	N	/linor2	
Conflicting Flow All	1	0	-	0	39	1
Stage 1	_	-	_	-	1	_
Stage 2	_	_	_	_	38	<u>-</u>
Critical Hdwy	4.1	_	_	_	6.4	6.2
Critical Hdwy Stg 1	4.1	_	_		5.4	0.2
Critical Hdwy Stg 2			-	_	5.4	_
Follow-up Hdwy	2.2	_	_	_	3.5	3.3
	1635		-	-	978	1090
Stage 1	-	_	-	_	1028	1030
Stage 2		-	-	-	990	-
	-	-	-		990	-
Platoon blocked, %	1605	-	-	-	000	1000
•	1635	-	-	-	966	1090
Mov Cap-2 Maneuver	-	-	-		966	-
Stage 1	-	-	-	-	1016	-
Stage 2	-	-	-	-	990	-
Approach	EB		WB		SB	
HCM Control Delay, s	7.2		0		8.4	
HCM LOS			•		A	
110111 200					, ,	
				\4/D.T	14/00	0DI 4
				WBT	WBR :	SBLn1
Minor Lane/Major Mvmt		EBL	EBT	וטוו		
Capacity (veh/h)		1635	- EBI	-	-	1090
Capacity (veh/h) HCM Lane V/C Ratio		1635 0.012	-	-	-	0.016
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		1635 0.012 7.2	- - 0	-	-	0.016 8.4
Capacity (veh/h) HCM Lane V/C Ratio		1635 0.012	-	-	-	0.016

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Intersection									
Int Delay, s/veh	41.5								
Movement	WBL	WBR	NBT	NBR	SBL	SBT			
Lane Configurations	ሻ	7	<b></b>	7	ሻ	<b></b>			
Traffic Vol, veh/h	146	190	382	155	239	332			
Future Vol, veh/h	146	190	382	155	239	332			
Conflicting Peds, #/hr	0	0	0	0	0	0			
Sign Control	Stop	Stop	Free	Free	Free	Free			
RT Channelized	-	None	-	None	-	None			
Storage Length	0	0	_	150	170	-			
Veh in Median Storage		-	0	-	-	0			
Grade, %	0	_	0	_	_	0			
Peak Hour Factor	88	88	88	88	88	88			
Heavy Vehicles, %	20	22	5	10	19	3			
Mymt Flow	166	216	434	176	272	377			
viiic i iov	100	210	707	110	LIL	011			
Major/Mina-	Mine-1		Mais 1		Mais 2				
	Minor1		Major1		Major2	^			
Conflicting Flow All	1355	434	0	0	610	0			
Stage 1	434	-	-	-	-	-			
Stage 2	921	- 0.40	-	-	4.00	-			
Critical Hdwy	6.6	6.42	-	-	4.29	-			
Critical Hdwy Stg 1	5.6	-	-	-	-	-			
Critical Hdwy Stg 2	5.6	-	-	-	-	-			
Follow-up Hdwy		3.498	-		2.371	-			
Pot Cap-1 Maneuver	~ 151	582	-	-	891	-			
Stage 1	617	-	-	-	-	-			
Stage 2	360	-	-	-	-	-			
Platoon blocked, %	40=		-	-	221	-			
Mov Cap-1 Maneuver		582	-	-	891	-			
Mov Cap-2 Maneuver		-	-	-	-	-			
Stage 1	617	-	-	-	-	-			
Stage 2	250	-	-	-	-	-			
Approach	WB		NB		SB				
HCM Control Delay, s	170.6		0		4.5				
HCM LOS	F								
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1V	VBLn2	SBL	SBT		
Capacity (veh/h)		-	-	105	582	891	-		
HCM Lane V/C Ratio		_	_			0.305	<u>-</u>		
HCM Control Delay (s)		-	-\$	373.3	14.8	10.8	-		
HCM Lane LOS		_	-	F	В	В	-		
HCM 95th %tile Q(veh	)	-	-	12.6	1.7	1.3	-		
`									
Notes	! !	Φ. D.	1		20-		Add Not D. C I	*- All as also as also as a later	
~: Volume exceeds cap	pacity	\$: De	lay exc	eeds 30	JUS	+: Comp	outation Not Defined	*: All major volume in platoon	

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Intersection						
Int Delay, s/veh	2.3					
•		MDD	NET	NDD	05:	ODT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	<u> </u>	7		7	<b>\</b>	<b>↑</b>
Traffic Vol, veh/h	5	118	547	29	134	576
Future Vol, veh/h	5	118	547	29	134	576
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	100	-	100	100	-
Veh in Median Storage	, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	6	134	622	33	152	655
Maiow/Mina	Min c 4		1-1-1-1		Mais =0	
	Minor1		//ajor1		Major2	
Conflicting Flow All	1581	622	0	0	655	0
Stage 1	622	-	-	-	-	-
Stage 2	959	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	121	490	-	-	942	-
Stage 1	539	-	-	-	-	-
Stage 2	375	-	-	_	_	_
Platoon blocked, %			_	_		-
Mov Cap-1 Maneuver	102	490	_	_	942	-
Mov Cap-2 Maneuver	102	-	_	_	- ,-	_
Stage 1	539	_	_	_	_	_
Stage 2	315	<u>-</u>	_	_	_	_
Olaye Z	010					
Approach	WB		NB		SB	
HCM Control Delay, s	16.2		0		1.8	
HCM LOS	С					
Minor Lane/Major Mvm	t	NBT	NRDV	VBLn1V	VRI n2	SBL
	·	INDI				
Capacity (veh/h)		-	-	102	490	942
HCM Lane V/C Ratio		-	-	0.056		
HCM Control Delay (s)		-	-	42.4	15.1	9.6
HCM Lane LOS		-	-	Е	С	Α
HCM 95th %tile Q(veh)		-	-	0.2	1.1	0.6

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Intersection												
Int Delay, s/veh	0.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	0	1	0	15	0	2	0	624	34	8	700	1
Future Vol, veh/h	0	1	0	15	0	2	0	624	34	8	700	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	_	-	None	-	_	None	-	-	None	-	-	None
Storage Length	-	-	-	-	_	-	-	-	-	-	-	-
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	8	0	0	0	8	15	17	8	0
Mvmt Flow	0	1	0	17	0	2	0	709	39	9	795	1
Major/Minor N	Minor2			Minor1			Major1		ľ	Major2		
Conflicting Flow All	1544	1562	796	1543	1543	729	796	0	0	748	0	0
Stage 1	814	814	-	729	729	-	-	-	-	-	-	-
Stage 2	730	748	-	814	814	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.18	6.5	6.2	4.1	-	-	4.27	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.18	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.18	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.572	4	3.3	2.2	-	-	2.353	-	-
Pot Cap-1 Maneuver	95	113	390	91	116	426	835	-	-	797	-	-
Stage 1	375	394	-	405	431	-	-	-	-	-	-	-
Stage 2	417	423	-	363	394	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	93	111	390	89	114	426	835	-	-	797	-	-
Mov Cap-2 Maneuver	93	111	-	89	114	-	-	-	-	-	-	-
Stage 1	375	386	-	405	431	-	-	-	-	-	-	-
Stage 2	415	423	-	355	386	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	37.8			50.5			0			0.1		
HCM LOS	Е			F								
Minor Lane/Major Mvm	t	NBL	NBT	NBR I	EBLn1V	WBLn1	SBL	SBT	SBR			
Capacity (veh/h)		835	-	-	111	98	797	-	-			
HCM Lane V/C Ratio		-	-	-		0.197		-	-			
HCM Control Delay (s)		0	-	-	37.8	50.5	9.6	0	-			
HCM Lane LOS		Α	-	-	Е	F	Α	Α	-			
HCM 95th %tile Q(veh)		0	-	-	0	0.7	0	-	-			

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Intersection												
Int Delay, s/veh	2.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	45	1053	18	6	1040	6	5	0	6	5	1	34
Future Vol, veh/h	45	1053	18	6	1040	6	5	0	6	5	1	34
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	3	5	0	0	4	0	0	0	0	0	0	15
Mvmt Flow	47	1108	19	6	1095	6	5	0	6	5	1	36
Major/Minor I	Major1		1	Major2			Minor1		N	Minor2		
Conflicting Flow All	1101	0	0	1127	0	0	2341	2325	1118	2325	2331	1098
Stage 1	-	-	-	-	-	-	1212	1212	-	1110	1110	-
Stage 2	-	_	-	-	-	-	1129	1113	_	1215	1221	-
Critical Hdwy	4.13	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.35
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.227	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.435
Pot Cap-1 Maneuver	630	-	-	627	-	-	26	38	254	26	37	244
Stage 1	-	-	-	-	-	-	225	257	-	256	287	-
Stage 2	-	-	-	-	-	-	250	286	-	224	255	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	630	-	-	627	-	-	18	30	254	21	29	244
Mov Cap-2 Maneuver	-	-	-	-	-	-	18	30	-	21	29	-
Stage 1	-	-	-	-	-	-	180	205	-	205	280	-
Stage 2	-	-	-	-	-	-	207	279	-	175	204	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.5			0.1			146.7			68		
HCM LOS							F			F		
Minor Lane/Major Mvm	nt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1			
Capacity (veh/h)		36	630	-		627	-	-	97			
HCM Lane V/C Ratio		0.322		_	_	0.01	_	_	0.434			
HCM Control Delay (s)		146.7	11.2	0	_	10.8	0	-	68			
HCM Lane LOS		F	В	A	_	В	A	_	F			
HCM 95th %tile Q(veh)	)	1.1	0.2	-	_	0	-	-	1.8			
/ (1011)												

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Int Delay, s/veh  3.5  Movement  EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT SBR Lane Configurations  4 7 4
Lane Configurations 💠 🚓 🐧 🏌
Traffic Vol, veh/h 49 1009 8 3 976 18 1 0 2 8 1 89
Future Vol, veh/h 49 1009 8 3 976 18 1 0 2 8 1 89
Conflicting Peds, #/hr 0 0 0 0 0 0 0 0 0 0 0
Sign Control Free Free Free Free Free Free Stop Stop Stop Stop Stop
RT Channelized None None None
Storage Length 90
Veh in Median Storage, # - 0 0 0 0 0 0 0 0 0 0 0
Grade, % - 0 0 0 -
Peak Hour Factor 95 95 95 95 95 95 95 95 95 95 95
Heavy Vehicles, % 5 5 0 0 6 13 0 0 0 0 4
Mvmt Flow 52 1062 8 3 1027 19 1 0 2 8 1 94
Major/Minor Major1 Major2 Minor1 Minor2
Conflicting Flow All 1046 0 0 1070 0 0 2260 2222 1066 2214 2217 1037
Stage 1 1170 1170 - 1043 1043 -
Stage 2 1090 1052 - 1171 1174 -
Critical Hdwy 4.15 4.1 7.1 6.5 6.2 7.1 6.5 6.24
Critical Hdwy Stg 1 6.1 5.5 - 6.1 5.5 -
Critical Hdwy Stg 2 6.1 5.5 - 6.1 5.5 -
Follow-up Hdwy 2.245 2.2 3.5 4 3.3 3.5 4 3.336
Pot Cap-1 Maneuver 654 659 29 44 273 32 44 278
Stage 1 237 269 - 280 309 -
Stage 2 263 306 - 237 268 -
Platoon blocked, %
Mov Cap-1 Maneuver 654 659 16 35 273 27 35 278
Mov Cap-2 Maneuver 16 35 - 27 35 -
Stage 1 190 216 - 225 306 -
Stage 2 172 303 - 189 215 -
Approach EB WB NB SB
HCM Control Delay, s 0.5 0 94 68
HCM LOS F F
TIOWI LOO F F
Minor Long (Maior Muret NIDL ad NIDL a) EDI EDT EDD MIDL MIDT MIDD CDI d
Minor Lane/Major Mvmt NBLn1 NBLn2 EBL EBT EBR WBL WBT WBR SBLn1
Capacity (veh/h) 16 273 654 659 152
HCM Lane V/C Ratio 0.066 0.008 0.079 0.005 0.679
HCM Control Delay (s) 245.3 18.3 11 0 - 10.5 0 - 68
HCM Lane LOS F C B A - B A - F
HCM 95th %tile Q(veh) 0.2 0 0.3 0 3.9

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Intersection						
Int Delay, s/veh	0.8					
		EDD	WDL	WDT	NDI	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>\$</b>	20		4	¥	_
Traffic Vol, veh/h	990	38	3	986	15	8
Future Vol, veh/h	990	38	3	986	15	8
Conflicting Peds, #/hr	_ 0	_ 0	_ 0	_ 0	0	0
3	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	5	0	0	6	0	0
Mvmt Flow	1042	40	3	1038	16	8
Major/Minor Ma	ajor1	N	Major2	N	/linor1	
Conflicting Flow All	0	0	1082	0	2106	1062
Stage 1	-	-	1002	-	1062	1002
Stage 2	_	_	-	-	1002	_
Critical Hdwy			4.1		6.4	6.2
•	-	-	4.1	-		
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	652	-	57	274
Stage 1	-	-	-	-	335	-
Stage 2	-	-	-	-	342	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	652	-	56	274
Mov Cap-2 Maneuver	-	-	-	-	56	-
Stage 1	-	-	-	-	335	-
Stage 2	-	-	-	-	338	-
Approach	EB		WB		NB	
	0		0		71.9	
HCM Control Delay, s	U		U		71.9 F	
HCM LOS					Г	
Minor Lane/Major Mvmt	1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		77	-	-	652	-
HCM Lane V/C Ratio		0.314	-	-	0.005	-
HCM Control Delay (s)		71.9	-	-		0
HCM Lane LOS		F	-	-	В	A
HCM 95th %tile Q(veh)		1.2	_	-	0	-

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Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	<b>1</b>		<b>Y</b>	
Traffic Vol, veh/h	6	981	986	2	2	13
Future Vol, veh/h	6	981	986	2	2	13
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-	None	-	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage,	# -	0	0	_	0	_
Grade, %	-	0	0	_	0	_
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	20	6	6	50	50	20
Mymt Flow	6	1033	1038	2	2	14
IVIVIIIL FIOW	Ü	1033	1030	2	2	14
Major/Minor N	1ajor1	ľ	Major2	N	Minor2	
Conflicting Flow All	1040	0	-	0	2084	1039
Stage 1	_	-	-	-	1039	-
Stage 2	_	-	_	-	1045	-
Critical Hdwy	4.3	_	_	_	6.9	6.4
Critical Hdwy Stg 1	-	_	_	_	5.9	-
Critical Hdwy Stg 2	_	_	_	-	5.9	_
Follow-up Hdwy	2.38	_	_	_	3.95	3.48
Pot Cap-1 Maneuver	604	_	_	_	43	259
Stage 1	-	_	_	<u>-</u>	278	200
Stage 2	_			_	276	_
Platoon blocked, %	_	_	_		210	-
-	604	-	_	-	42	259
Mov Cap-1 Maneuver		-	-	-		
Mov Cap-2 Maneuver	-	-	-	-	42	-
Stage 1	-	-	-	-	272	-
Stage 2	-	-	-	-	276	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		31.2	
HCM LOS	0.1				D	
TIOWI LOO						
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		604	-	-	-	153
HCM Lane V/C Ratio		0.01	-	-	-	0.103
HCM Control Delay (s)		11	0	-	-	31.2
HCM Lane LOS		В	Α	-	-	D
HCM 95th %tile Q(veh)		0	-	-	-	0.3

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3.8						
EBL	EBT	WBT	WBR	SBL	SBR	
107	869	865	38	25	128	
107	869	865	38	25	128	
0	0	0	0	0	0	
Free	Free	Free	Free	Stop	Stop	
-	None	-	None	-		
100	-	-	-	0	100	
,# -	0	0	-	0	-	
_	0	0	-	0	-	
95	95	95	95	95	95	
0	6	6	0	0	5	
113	915	911	40	26	135	
A-:- A		4-1- 0		Alian C		
	0	-				
-	-	-	-		-	
-	-	-	-		-	
	-	-	-		6.25	
-	-	-	-		-	
-	-	-	-		-	
	-	-	-			
730	-	-	-		319	
-	-	-	-		-	
-	-	-	-	307	-	
	-	-	-			
730	-	-	-		319	
-	-	-	-		-	
-	-	-	-		-	
-	-	-	-	307	-	
EB		WB		SB		
1.4		- 0				
t		EBT	WBT	WBR :		
	730	-	-	-	51	319
	0.154	-	-			
		-	-	-		24.3
	В	-	-	-	F	С
	0.5	_	_	_	2	2
	EBL 107 107 0 Free - 100 ,# - 95 0 113  Major1 951 - 4.1 - 2.2 730 - 730 TBB 1.2	EBL EBT  107 869 107 869 0 0 Free Free - None 100 - ,# - 0 95 95 0 6 113 915  Major1 N 951 0 4.1 2.2 - 730 730  730  EB 1.2  t EBL  730 0.154 10.8 B	EBL EBT WBT  107 869 865 107 869 865 0 0 0 0 Free Free Free - None - 100 0 0 95 95 95 0 6 6 113 915 911  Major1 Major2  951 0 2.2 730	EBL EBT WBT WBR  107 869 865 38 107 869 865 38 0 0 0 0 0 Free Free Free Free - None 100 None 100 ,# - 0 0 95 95 95 95 0 6 6 0 113 915 911 40  Major1 Major2 N  Major1 Major2 N  951 0 - 0 2.2 730	EBL         EBT         WBT         WBR         SBL           107         869         865         38         25           107         869         865         38         25           0         0         0         0         0           Free         Free         Free         Free         Stop           None         -         None         -           100         -         -         0           -         0         0         -         0           95         95         95         95         95           0         6         6         0         0         0           113         915         911         40         26           Major1         Major2         Minor2         Minor2         Minor2           951         0         -         0         2072         -         -         931         -         -         -         931         -         -         -         -         931         -         -         -         -         -         -         -         -         -         -         -         -         -         -	BBL   BBT   WBT   WBR   SBL   SBR     107   869   865   38   25   128     107   869   865   38   25   128     0

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Intersection						
Int Delay, s/veh	2.4					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	₩.	וטייי	1\D1	TOIL	ODL	- <del>6</del> 1
Traffic Vol, veh/h	<b>4</b> 3	5	64	81	26	100
Future Vol, veh/h	43	5	64	81	26	100
Conflicting Peds, #/hr	43	0	04	0	0	0
						Free
Sign Control RT Channelized	Stop	Stop None	Free	Free None	Free	None
	-		-		-	None
Storage Length	0 # 0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	60	0	0	50	0	5
Mvmt Flow	51	6	75	95	31	118
Major/Minor I	Minor1	N	Major1	N	Major2	
Conflicting Flow All	303	123	0	0	170	0
Stage 1	123	123	-	U	170	-
Stage 2	180	-	_	-	_	-
	7	6.2	-	-	4.1	-
Critical Hdwy	6		-	-	4.1	-
Critical Hdwy Stg 1		-	-	-	-	-
Critical Hdwy Stg 2	6	-	-	-	-	-
Follow-up Hdwy	4.04	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	583	933	-	-	1420	-
Stage 1	777	-	-	-	-	-
Stage 2	729	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	570	933	-	-	1420	-
Mov Cap-2 Maneuver	570	-	-	-	-	-
Stage 1	777	-	-	-	-	-
Stage 2	712	-	-	-	-	-
Annroach	WB		NB		SB	
Approach						
HCM Control Delay, s	11.7		0		1.6	
HCM LOS	В					
Minor Lane/Major Mvm	ıt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		_	_		1420	
HCM Lane V/C Ratio		_		0.095		_
HCM Control Delay (s)		_	_		7.6	0
HCM Lane LOS		_	_	В	Α.	A
HCM 95th %tile Q(veh)		_	_	0.3	0.1	-
				3.0	J. 1	

Synchro 10 Report Page 10 11/26/2021

Intersection						
Int Delay, s/veh	4.5					
		ED.5	MA	MET	ND	NDD
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	₽			4	Y	
Traffic Vol, veh/h	22	2	108	74	1	30
Future Vol, veh/h	22	2	108	74	1	30
Conflicting Peds, #/hr	0	0	0	0	2	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	<del>+</del> 0	-	-	0	0	-
Grade, %	0	_	_	0	0	_
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	12	50	2	12	0	11
Mvmt Flow	26	2	127	87	1	35
IVIVIIIL FIUW	20		121	01		33
Major/Minor Ma	ajor1	ı	Major2	N	/linor1	
Conflicting Flow All	0	0	28	0	370	27
Stage 1	-		-	-	27	-
		-				
Stage 2	-	-	4.40	-	343	-
Critical Hdwy	-	-	4.12	-	6.4	6.31
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-		2.218	-		3.399
Pot Cap-1 Maneuver	-	-	1585	-	634	1023
Stage 1	-	-	-	-	1001	-
Stage 2	-	-	-	-	723	-
Platoon blocked, %	_	_		-		
Mov Cap-1 Maneuver	-	-	1585	-	579	1023
Mov Cap-2 Maneuver	_	_	-	_	579	-
Stage 1	_		_	_	1001	
		-			661	
Stage 2	-	-	-	-	100	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		4.4		8.7	
HCM LOS	U		7.4			
HOW LOS					Α	
Minor Lane/Major Mvmt	1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		998	_	_	1585	_
HCM Lane V/C Ratio		0.037	_	_	0.08	_
HCM Control Delay (s)		8.7	_	_	7.5	0
HCM Lane LOS		Α			7.5 A	A
			-	-		- A
HCM 95th %tile Q(veh)		0.1	-	-	0.3	_

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Intersection						
Int Delay, s/veh	5.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL			WDR	SDL W	אפט
Traffic Vol, veh/h	66	<b>र्स</b> 36	<b>♣</b> 9	9	<b>'T'</b> 15	30
Future Vol, veh/h	66	36	9		15	30
	00	0	0	9	0	0
Conflicting Peds, #/hr						
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage		0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	78	42	11	11	18	35
Major/Minor	Major1	I	Major2	N	/linor2	
Conflicting Flow All	22	0	-	0	215	17
Stage 1	-	-	_	-	17	- ''
Stage 2	_	_	_	_	198	_
Critical Hdwy	4.1	_	_	_	6.4	6.2
Critical Hdwy Stg 1	7.1	_		_	5.4	0.2
Critical Hdwy Stg 2				_	5.4	_
Follow-up Hdwy	2.2	-	_	-	3.5	3.3
Pot Cap-1 Maneuver	1607		-		778	1068
•		-	-	-		
Stage 1	-		-	-	1011	-
Stage 2	-	-	-	-	840	-
Platoon blocked, %	4007	-	-	-	700	4000
Mov Cap-1 Maneuver	1607	-	-	-	739	1068
Mov Cap-2 Maneuver	-	-	-	-	739	-
Stage 1	-	-	-	-	960	-
Stage 2	_	-	-	-	840	-
Approach	EB		WB		SB	
HCM Control Delay, s	4.8		0		9.1	
HCM LOS	4.0		U		9.1 A	
I IOW LOS					٨	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		1607	-	_	-	930
HCM Lane V/C Ratio		0.048	-	-	-	0.057
HCM Control Delay (s)		7.4	0	-	_	9.1
HCM Lane LOS		Α	A	-	-	Α
HCM 95th %tile Q(veh)	)	0.2	_	-	_	0.2

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Intersection						
Int Delay, s/veh	3.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		ĵ.			स
Traffic Vol, veh/h	30	17	2	51	14	23
Future Vol, veh/h	30	17	2	51	14	23
Conflicting Peds, #/hr	0	0	0	0	0	0
	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	_	-	_	-
Veh in Median Storage,		_	0	_	_	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	00	0	0	0	0	0
Mymt Flow	35	20	2	60	16	27
WWIT FIOW	აა	20	2	60	10	21
Major/Minor Mi	inor1	N	//ajor1	ľ	Major2	
Conflicting Flow All	91	32	0	0	62	0
Stage 1	32	-	_	-	-	-
Stage 2	59	_	_	_	_	_
Critical Hdwy	6.4	6.2	_	_	4.1	_
Critical Hdwy Stg 1	5.4	- 0.2	_	_	7.1	<u>-</u>
Critical Hdwy Stg 2	5.4	_	_	_	_	_
Follow-up Hdwy	3.5	3.3		_	2.2	_
Pot Cap-1 Maneuver	914	1048			1554	
Stage 1	996	-		_	1334	_
	969	_			-	_
Stage 2	909	-	-		-	
Platoon blocked, %	005	4040	-	-	4554	-
Mov Cap-1 Maneuver	905	1048	-	-	1554	-
Mov Cap-2 Maneuver	905	-	-	-	-	-
Stage 1	996	-	-	-	-	-
Stage 2	959	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	9		0		2.8	
			U		2.0	
HCM LOS	Α					
Minor Lane/Major Mvmt		NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		_	_	952	1554	_
HCM Lane V/C Ratio		-	_	0.058		-
HCM Control Delay (s)		_	_	9	7.3	0
HCM Lane LOS		_	_	A	A	A
HCM 95th %tile Q(veh)		_	_	0.2	0	-
				J.L		

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Intersection						
Int Delay, s/veh	7.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	_ ĵ∍		¥	
Traffic Vol, veh/h	51	0	0	0	0	18
Future Vol, veh/h	51	0	0	0	0	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	60	0	0	0	0	21
Major/Minor M	lajor1	N	Major2	N	/linor2	
						1
Conflicting Flow All	1	0	-	0	121	1
Stage 1	-	-	-	-	120	-
Stage 2	-	-	-	-	120	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1635	-	-	-	879	1090
Stage 1	-	-	-	-	1028	-
Stage 2	-	-	-	-	910	-
Platoon blocked, %		-	-	-		
	1635	-	-	-	846	1090
Mov Cap-2 Maneuver	-	-	-	-	846	-
Stage 1	-	-	-	-	990	-
Stage 2	-	-	-	-	910	-
Approach	EB		WB		SB	
	7.3		0		8.4	
HCM LOS	1.3		U			
HCM LOS					Α	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1635	_	-		1090
HCM Lane V/C Ratio		0.037	-	_		0.019
HCM Control Delay (s)		7.3	0	-	-	8.4
HCM Lane LOS		Α.	A	_	_	A
HCM 95th %tile Q(veh)		0.1	-	-	_	0.1
2000 2000						

Synchro 10 Report Page 14 11/26/2021

▼ Site: 101 [TM Build - Mitigation Sat (Site Folder: SAT Peak)]

New Site

Site Category: (None)

Roundabout

Vehi	icle Mo	vement	Perfor	mance										
Mov ID	Turn	INP VOLU [ Total veh/h		DEM, FLO [ Total veh/h		Deg. Satn v/c		Level of Service		ACK OF EUE Dist ] ft	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed mph
Sout	h: Tom I	McCall R	d											
3	L2	15	33.0	16	33.0	0.113	7.9	LOSA	0.4	9.9	0.57	0.56	0.57	33.0
8	T1	55	0.0	60	0.0	0.113	6.3	LOSA	0.4	9.9	0.57	0.56	0.57	34.0
18	R2	52	17.0	57	17.0	0.091	6.8	LOS A	0.3	7.7	0.55	0.54	0.55	32.9
Appr	oach	122	11.3	133	11.3	0.113	6.7	LOSA	0.4	9.9	0.56	0.55	0.56	33.4
East	: OR126	6												
1	L2	44	20.0	48	20.0	0.745	16.1	LOS C	6.7	185.7	0.52	0.29	0.52	29.6
6	T1	508	13.0	552	13.0	0.745	15.9	LOS C	6.7	185.7	0.52	0.29	0.52	29.9
16	R2	203	15.0	221	15.0	0.745	15.9	LOS C	6.7	185.7	0.52	0.29	0.52	29.0
Appr	oach	755	13.9	821	13.9	0.745	15.9	LOS C	6.7	185.7	0.52	0.29	0.52	29.6
North	n: Tom N	∕IcCall R	d											
7	L2	180	26.0	196	26.0	0.468	13.7	LOS B	2.2	65.9	0.66	0.79	1.02	28.9
4	T1	72	33.0	78	33.0	0.468	14.0	LOS B	2.2	65.9	0.66	0.79	1.02	29.1
14	R2	14	18.0	15	18.0	0.023	5.6	LOSA	0.1	2.0	0.52	0.41	0.52	33.4
Appr	oach	266	27.5	289	27.5	0.468	13.4	LOS B	2.2	65.9	0.65	0.77	1.00	29.2
Wes	t: OR12	6												
5	L2	11	0.0	12	0.0	0.286	6.7	LOSA	1.2	32.1	0.52	0.45	0.52	34.3
2	T1	471	6.0	512	6.0	0.286	6.9	LOSA	1.2	32.1	0.52	0.45	0.52	34.1
12	R2	6	0.0	7	0.0	0.286	6.7	LOSA	1.2	32.1	0.52	0.45	0.52	33.3
Appr	oach	488	5.8	530	5.8	0.286	6.9	LOSA	1.2	32.1	0.52	0.45	0.52	34.1
All V	ehicles	1631	13.5	1773	13.5	0.745	12.1	LOS B	6.7	185.7	0.54	0.44	0.60	31.0

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Organisation: KITTELSON AND ASSOCIATES INC | Licence: NETWORK / Enterprise | Processed: Monday, December 20, 2021 2:18:02 PM Project: H:\26\26648 - Crossing Trails Destination Resort\SIDRA\26648 - Roundabouts.sip9

▼ Site: 101 [TM Build PM - Sens (Site Folder: Sensitivity)]

New Site

Site Category: (None)

Roundabout

Vehi	cle Mo	vemen	t Perfori	mance										
Mov ID	Turn		PUT JMES HV] %	DEM, FLO [ Total veh/h		Deg. Satn v/c		Level of Service		ACK OF EUE Dist ] ft	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed mph
Sout	h: Tom	McCall R	Rd											
3	L2	114	7.0	124	7.0	1.135	122.4	LOS F	26.0	713.2	1.00	2.59	6.52	12.3
8	T1	47	14.0	51	14.0	1.135	123.0	LOS F	26.0	713.2	1.00	2.59	6.52	12.3
18	R2	217	14.0	236	14.0	1.135	123.0	LOS F	26.0	713.2	1.00	2.59	6.52	12.1
Appr	oach	378	11.9	411	11.9	1.135	122.8	LOS F	26.0	713.2	1.00	2.59	6.52	12.2
East	OR126	3												
1	L2	63	24.0	68	24.0	0.712	15.4	LOS C	9.0	241.1	0.65	0.56	0.82	29.8
6	T1	495	7.0	538	7.0	0.712	14.9	LOS B	9.0	241.1	0.65	0.56	0.82	30.3
16	R2	129	13.0	140	13.0	0.712	15.1	LOS C	9.0	241.1	0.65	0.56	0.82	29.4
Appr	oach	687	9.7	747	9.7	0.712	15.0	LOS B	9.0	241.1	0.65	0.56	0.82	30.1
North	n: Tom M	์ ∕ไcCall R	d											
7	L2	191	4.0	208	4.0	0.564	16.2	LOS C	3.8	96.8	0.79	0.95	1.29	28.8
4	T1	8	13.0	9	13.0	0.564	16.7	LOS C	3.8	96.8	0.79	0.95	1.29	28.6
14	R2	115	0.0	125	0.0	0.564	16.0	LOS C	3.8	96.8	0.79	0.95	1.29	28.1
Appr	oach	314	2.8	341	2.8	0.564	16.2	LOS C	3.8	96.8	0.79	0.95	1.29	28.5
West	t: OR12	6												
5	L2	3	33.0	3	33.0	0.990	48.7	LOS E	45.0	1182.0	1.00	2.07	3.58	20.8
2	T1	852	6.0	926	6.0	0.990	47.7	LOS E	45.0	1182.0	1.00	2.07	3.58	21.2
12	R2	5	67.0	5	67.0	0.990	49.9	LOS E	45.0	1182.0	1.00	2.07	3.58	20.3
Appr	oach	860	6.4	935	6.4	0.990	47.8	LOS E	45.0	1182.0	1.00	2.07	3.58	21.2
All V	ehicles	2239	7.8	2434	7.8	1.135	45.9	LOS E	45.0	1182.0	0.86	1.54	2.91	21.2

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Organisation: KITTELSON AND ASSOCIATES INC | Licence: NETWORK / Enterprise | Processed: Monday, December 20, 2021 2:20:54 PM Project: H:\26\26648 - Crossing Trails Destination Resort\SIDRA\26648 - Roundabouts.sip9

### ▼ Site: 101 [TM Build PM - Sen Mitigation (Site Folder:

Sensitivity)]
New Site

Site Category: (None)

Roundabout

Vel	nicle Mo	vement	Perfor	mance										
Mov ID	v Turn	INP VOLU [ Total veh/h		DEM, FLO [ Total veh/h		Deg. Satn v/c		Level of Service		ACK OF EUE Dist ] ft	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed mph
Sou	ıth: Tom I		d											
3	L2	114	7.0	124	7.0	0.401	15.5	LOS C	1.6	43.7	0.76	0.85	1.06	28.7
8	T1	47	14.0	51	14.0	0.401	16.1	LOS C	1.6	43.7	0.76	0.85	1.06	28.6
18	R2	217	14.0	236	14.0	0.563	21.9	LOS C	2.7	75.0	0.80	0.98	1.42	26.9
App	roach	378	11.9	411	11.9	0.563	19.3	LOS C	2.7	75.0	0.78	0.92	1.27	27.7
Eas	t: OR126	5												
1	L2	63	24.0	68	24.0	0.724	16.1	LOS C	11.2	301.6	0.69	0.69	1.02	29.5
6	T1	495	7.0	538	7.0	0.724	15.6	LOS C	11.2	301.6	0.69	0.69	1.02	30.0
16	R2	129	13.0	140	13.0	0.724	15.8	LOS C	11.2	301.6	0.69	0.69	1.02	29.1
App	roach	687	9.7	747	9.7	0.724	15.7	LOS C	11.2	301.6	0.69	0.69	1.02	29.8
Nor	th: Tom N	/lcCall Ro	d											
7	L2	191	4.0	208	4.0	0.571	16.6	LOS C	3.9	98.6	0.79	0.96	1.31	28.6
4	T1	8	13.0	9	13.0	0.571	17.2	LOS C	3.9	98.6	0.79	0.96	1.31	28.5
14	R2	115	0.0	125	0.0	0.571	16.4	LOS C	3.9	98.6	0.79	0.96	1.31	28.0
App	roach	314	2.8	341	2.8	0.571	16.6	LOS C	3.9	98.6	0.79	0.96	1.31	28.4
We	st: OR12	6												
5	L2	3	33.0	3	33.0	0.990	48.7	LOS E	45.0	1182.0	1.00	2.07	3.58	20.8
2	T1	852	6.0	926	6.0	0.990	47.7	LOS E	45.0	1182.0	1.00	2.07	3.58	21.2
12	R2	5	67.0	5	67.0	0.990	49.9	LOS E	45.0	1182.0	1.00	2.07	3.58	20.3
App	roach	860	6.4	935	6.4	0.990	47.8	LOS E	45.0	1182.0	1.00	2.07	3.58	21.2
All '	Vehicles	2239	7.8	2434	7.8	0.990	28.7	LOS D	45.0	1182.0	0.84	1.30	2.09	25.3

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Organisation: KITTELSON AND ASSOCIATES INC | Licence: NETWORK / Enterprise | Processed: Monday, December 20, 2021 2:22:47 PM Project: H:\26\26648 - Crossing Trails Destination Resort\SIDRA\26648 - Roundabouts.sip9

▼ Site: 101 [TM Build - Mitigation PM (Site Folder: PM Peak)]

New Site

Site Category: (None)

Roundabout

Mov 7				mance										
ID .	Turn	INP VOLL		DEM. FLO		Deg. Satn		Level of Service		ACK OF EUE	Prop. Que	Effective Stop	Aver. No.	Aver. Speed
10		[ Total veh/h	HV]	[ Total veh/h	HV ] %	v/c	sec	OCIVICO	[ Veh. veh	Dist ] ft	Que	Rate	Cycles	mph
South:	Tom N	McCall R			- , ,	.,,								,5
3	L2	114	7.0	124	7.0	0.505	22.8	LOS C	2.0	54.4	0.84	0.97	1.35	26.3
8	T1	47	14.0	51	14.0	0.505	23.5	LOS C	2.0	54.4	0.84	0.97	1.35	26.3
18	R2	217	14.0	236	14.0	0.709	36.8	LOS E	3.6	99.2	0.88	1.16	1.93	22.8
Approa	ach	378	11.9	411	11.9	0.709	30.9	LOS D	3.6	99.2	0.86	1.08	1.68	24.2
East: C	DR126	i												
1	L2	63	24.0	68	24.0	0.724	16.1	LOS C	11.2	301.6	0.69	0.69	1.02	29.5
6	T1	495	7.0	538	7.0	0.724	15.6	LOS C	11.2	301.6	0.69	0.69	1.02	30.0
16	R2	129	13.0	140	13.0	0.724	15.8	LOS C	11.2	301.6	0.69	0.69	1.02	29.1
Approa	ach	687	9.7	747	9.7	0.724	15.7	LOS C	11.2	301.6	0.69	0.69	1.02	29.8
North:	Tom N	/lcCall R	d											
7	L2	505	4.0	549	4.0	0.827	30.1	LOS D	10.3	265.8	0.91	1.39	2.39	24.1
4	T1	66	13.0	72	13.0	0.537	14.6	LOS B	3.4	86.9	0.75	0.89	1.19	30.6
14	R2	266	0.0	289	0.0	0.537	13.9	LOS B	3.4	86.9	0.75	0.89	1.19	29.9
Approa	ach	837	3.4	910	3.4	0.827	23.8	LOS C	10.3	265.8	0.85	1.19	1.91	26.1
West: 0	OR126	3												
5	L2	3	33.0	3	33.0	0.689	21.9	LOS C	5.8	152.9	0.80	1.08	1.64	27.8
2	T1	852	6.0	926	6.0	0.689	19.6	LOS C	6.0	157.6	0.80	1.07	1.63	28.7
12	R2	5	67.0	5	67.0	0.689	21.8	LOS C	6.0	157.6	0.79	1.07	1.62	27.1
Approa	ach	860	6.4	935	6.4	0.689	19.7	LOS C	6.0	157.6	0.80	1.07	1.63	28.7
All Veh	nicles	2762	7.1	3002	7.1	0.827	21.5	LOS C	11.2	301.6	0.79	1.02	1.57	27.4

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula.

Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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**▼** Site: 101 [TM Background - Mitigation Sat (Site Folder: SAT

Peak)]

New Site

Site Category: (None)

Roundabout

Veh	icle Mo	vemen	t Perfori	mance										
Mov ID	Turn	VOLI [Total	PUT JMES HV]	DEM. FLO [ Total	WS HV]	Deg. Satn	Delay	Level of Service	QUI [ Veh.	ACK OF EUE Dist ]	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
Sout	h: Tom I	veh/h McCall F	% Pd	veh/h	%	v/c	sec		veh	ft				mph
3	L2	11	33.0	12	33.0	0.102	7.5	LOSA	0.3	8.9	0.55	0.54	0.55	33.3
8	T1	55	0.0	60	0.0	0.102	5.9	LOSA	0.3	8.9	0.55	0.54	0.55	34.3
18	R2	52	17.0	57	17.0	0.088	6.6	LOSA	0.3	7.5	0.54	0.52	0.54	33.0
Appr	oach	118	10.6	128	10.6	0.102	6.4	LOS A	0.3	8.9	0.55	0.53	0.55	33.6
East	: OR126	6												
1	L2	44	20.0	48	20.0	0.686	13.6	LOS B	5.6	154.1	0.45	0.25	0.45	30.6
6	T1	508	13.0	552	13.0	0.686	13.4	LOS B	5.6	154.1	0.45	0.25	0.45	30.9
16	R2	147	15.0	160	15.0	0.686	13.5	LOS B	5.6	154.1	0.45	0.25	0.45	30.0
Appr	oach	699	13.9	760	13.9	0.686	13.4	LOS B	5.6	154.1	0.45	0.25	0.45	30.7
Nortl	h: Tom N	/lcCall R	Rd											
7	L2	150	26.0	163	26.0	0.411	12.3	LOS B	1.7	51.1	0.64	0.73	0.87	29.5
4	T1	72	33.0	78	33.0	0.411	12.6	LOS B	1.7	51.1	0.64	0.73	0.87	29.7
14	R2	14	18.0	15	18.0	0.023	5.6	LOS A	0.1	2.0	0.52	0.41	0.52	33.5
Appr	oach	236	27.7	257	27.7	0.411	12.0	LOS B	1.7	51.1	0.63	0.71	0.85	29.8
Wes	t: OR12	6												
5	L2	11	0.0	12	0.0	0.276	6.3	LOSA	1.2	31.0	0.49	0.41	0.49	34.5
2	T1	471	6.0	512	6.0	0.276	6.6	LOSA	1.2	31.0	0.49	0.41	0.49	34.3
12	R2	6	0.0	7	0.0	0.276	6.3	LOSA	1.2	31.0	0.49	0.41	0.49	33.4
Appr	oach	488	5.8	530	5.8	0.276	6.5	LOSA	1.2	31.0	0.49	0.41	0.49	34.3
All V	ehicles	1541	13.2	1675	13.2	0.686	10.5	LOS B	5.6	154.1	0.50	0.39	0.53	31.8

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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# **♥** Site: 101 [TM Bkgd PM - Sen Mitigation (Site Folder: Sensitivity)]

New Site

Site Category: (None)

Roundabout

Veh	icle Mo	vemen	t Perfori	mance										
Mov	Turn		PUT	DEM.		Deg.		Level of		ACK OF		Effective	Aver.	Aver.
ID		Total	JMES HV 1	FLO [ Total	ws HV1	Satn	Delay	Service	Veh.	EUE Dist ]	Que	Stop Rate	No. Cycles	Speed
		veh/h	%	veh/h	%	v/c	sec		veh	ft				mph
Sout	th: Tom I	McCall F	Rd											
3	L2	110	7.0	120	7.0	0.381	14.6	LOS B	1.5	40.8	0.75	0.82	1.01	29.1
8	T1	47	14.0	51	14.0	0.381	15.1	LOS C	1.5	40.8	0.75	0.82	1.01	29.0
18	R2	217	14.0	236	14.0	0.547	20.7	LOS C	2.6	72.4	0.78	0.96	1.37	27.3
Appı	roach	374	11.9	407	11.9	0.547	18.2	LOS C	2.6	72.4	0.77	0.90	1.22	28.0
East	:: OR126	3												
1	L2	63	24.0	68	24.0	0.651	13.4	LOS B	6.1	164.5	0.61	0.50	0.71	30.6
6	T1	462	7.0	502	7.0	0.651	12.9	LOS B	6.1	164.5	0.61	0.50	0.71	31.1
16	R2	96	13.0	104	13.0	0.651	13.1	LOS B	6.1	164.5	0.61	0.50	0.71	30.1
Аррі	roach	621	9.7	675	9.7	0.651	13.0	LOS B	6.1	164.5	0.61	0.50	0.71	30.9
Nort	h: Tom N	∕IcCall R	d											
7	L2	181	4.0	197	4.0	0.519	14.5	LOS B	3.3	83.9	0.77	0.90	1.17	29.4
4	T1	8	13.0	9	13.0	0.519	15.0	LOS B	3.3	83.9	0.77	0.90	1.17	29.3
14	R2	109	0.0	118	0.0	0.519	14.2	LOS B	3.3	83.9	0.77	0.90	1.17	28.7
Аррі	roach	298	2.8	324	2.8	0.519	14.4	LOS B	3.3	83.9	0.77	0.90	1.17	29.2
Wes	t: OR12	6												
5	L2	3	33.0	3	33.0	0.956	41.0	LOS E	39.0	1023.2	1.00	1.88	3.14	22.4
2	T1	835	6.0	908	6.0	0.956	40.0	LOS E	39.0	1023.2	1.00	1.88	3.14	22.8
12	R2	3	67.0	3	67.0	0.956	42.2	LOS E	39.0	1023.2	1.00	1.88	3.14	21.8
Аррі	roach	841	6.3	914	6.3	0.956	40.0	LOS E	39.0	1023.2	1.00	1.88	3.14	22.8
All V	ehicles	2134	7.8	2320	7.8	0.956	24.8	LOSC	39.0	1023.2	0.81	1.17	1.82	26.5

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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**▼** Site: 101 [Alfalfa-Powell Butte Build Mitigation Sat (Site Folder:

SAT Peak)]

Alfalfa-Powell Butte Existing PM

Site Category: (None)

Roundabout

Vehi	cle Mo	vement	Perfori	mance										
Mov ID	Turn	INP VOLU [ Total veh/h		DEM FLO [ Total veh/h		Deg. Satn v/c	Aver. Delay sec	Level of Service		ACK OF EUE Dist ] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South	nEast: A	Alfalfa Rd												
21 23	L2 R2	167 267	9.0 14.0	176 281	9.0 14.0	0.435 0.435	5.8 10.8	LOS A LOS B	3.2 3.2	24.6 24.6	0.60 0.60	0.68 0.68	0.60 0.60	51.4 52.3
Appro		434 Powell Bu	12.1 tte Hwy	457	12.1	0.435	8.9	LOSA	3.2	24.6	0.60	0.68	0.60	52.0
24 25	L2 T1	315 241	0.0 7.0	332 254	0.0 7.0	0.495 0.495	5.3 5.7	LOS A LOS A	4.0 4.0	29.0 29.0	0.58 0.58	0.58 0.58	0.58 0.58	53.3 54.5
Appro		556 Powell B	3.0	585	3.0	0.495	5.5	LOSA	4.0	29.0	0.58	0.58	0.58	53.8
31	T1	229	4.0	241	4.0	0.424	6.2	LOSA	3.1	22.4	0.62	0.67	0.62	52.8
32	R2	196	4.0	206	4.0	0.424	10.8	LOS B	3.1	22.4	0.62	0.67	0.62	52.7
Appro	oach	425	4.0	447	4.0	0.424	8.3	LOSA	3.1	22.4	0.62	0.67	0.62	52.8
All Ve	hicles	1415	6.1	1489	6.1	0.495	7.4	LOSA	4.0	29.0	0.60	0.64	0.60	52.9

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

Delay Model: SIDRA Standard (Geometric Delay is included).

Queue Model: SIDRA Standard.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Project: H:\26\26648 - Crossing Trails Destination Resort\SIDRA\26648 - Roundabouts.sip9

**₩** Site: 101 [Alfalfa-Powell Butte Build Mitigation PM (Site Folder:

PM Peak)]

Alfalfa-Powell Butte Existing PM

Site Category: (None)

Roundabout

Vehi	cle Mo	ovement	Perfor	mance										
Mov ID	Turn	INP VOLU [ Total veh/h		DEM FLO [ Total veh/h		Deg. Satn v/c		Level of Service		ACK OF EUE Dist ] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South	nEast: /	Alfalfa Rd												
21 23	L2 R2	146 190	20.0 22.0	154 200	20.0 22.0	0.393 0.393	6.7 11.7	LOS A LOS B	2.6 2.6	21.9 21.9	0.65 0.65	0.74 0.74	0.65 0.65	51.0 51.9
Appro		336 Powell Bu	21.1 tte Hwy	354	21.1	0.393	9.5	LOSA	2.6	21.9	0.65	0.74	0.65	51.5
24 25	L2 T1	239 332	19.0 3.0	252 349	19.0 3.0	0.502 0.502	5.5 5.4	LOS A LOS A	4.2 4.2	31.7 31.7	0.54 0.54	0.55 0.55	0.54 0.54	52.7 54.5
Appro		571	9.7	601	9.7	0.502	5.4	LOSA	4.2	31.7	0.54	0.55	0.54	53.8
South	nWest:	Powell B	utte Hwy	'										
31	T1	382	5.0	402	5.0	0.495	5.8	LOSA	4.0	29.7	0.60	0.61	0.60	53.3
32	R2	155	10.0	163	10.0	0.495	10.5	LOS B	4.0	29.7	0.60	0.61	0.60	53.0
Appro	oach	537	6.4	565	6.4	0.495	7.1	LOSA	4.0	29.7	0.60	0.61	0.60	53.2
All Ve	ehicles	1444	11.1	1520	11.1	0.502	7.0	LOSA	4.2	31.7	0.59	0.62	0.59	53.0

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

Delay Model: SIDRA Standard (Geometric Delay is included).

Queue Model: SIDRA Standard.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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₩ Site: 101 [Alfalfa-Powell Butte Background Mitigation Sat (Site

Folder: SAT Peak)]

Alfalfa-Powell Butte Existing PM

Site Category: (None)

Roundabout

Vehi	cle Mo	vement	Perfori	mance										
Mov ID	Turn	INP VOLU [ Total veh/h		DEM, FLO [ Total veh/h		Deg. Satn v/c	Aver. Delay sec	Level of Service		ACK OF EUE Dist ] m	Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South	nEast: A	Alfalfa Rd												
21 23 Appro	L2 R2	167 267 434	9.0 14.0 12.1	176 281 457	9.0 14.0 12.1	0.415 0.415 0.415	5.5 10.5 8.6	LOS A LOS B	3.0 3.0 3.0	23.3 23.3 23.3	0.55 0.55 0.55	0.65 0.65 0.65	0.55 0.55 0.55	51.6 52.5 52.1
	East: F	Powell Bu		437	12.1	0.415	0.0			23.3	0.55	0.03	0.55	32.1
24 25	L2 T1	315 204	7.0	332 215	7.0	0.462	5.3 5.7	LOSA	3.6	25.9 25.9	0.56	0.57	0.56 0.56	53.4 54.6
Appro		519 Powell B	2.8 utte Hwy	546	2.8	0.462	5.4	LOSA	3.6	25.9	0.56	0.57	0.56	53.9
31 32	T1 R2	190 196	4.0 4.0	200 206	4.0 4.0	0.386 0.386	6.1 10.7	LOS A LOS B	2.7 2.7	19.5 19.5	0.60 0.60	0.67 0.67	0.60 0.60	52.8 52.7
Appro		386	4.0	406	4.0	0.386	8.4	LOSA	2.7	19.5	0.60	0.67	0.60	52.7
All Ve	hicles	1339	6.1	1409	6.1	0.462	7.3	LOSA	3.6	25.9	0.56	0.63	0.56	53.0

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

Delay Model: SIDRA Standard (Geometric Delay is included).

Queue Model: SIDRA Standard.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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₩ Site: 101 [Powell Butte-126 Build Mitigation Sat (Site Folder:

SAT Peak)]

New Site

Site Category: (None)

Roundabout

Vehi	icle Mo	vemen	t Perfor	mance										
Mov ID	Turn	INF VOLU [Total	JMES HV]	DEM. FLO [ Total	WS HV]	Deg. Satn	Delay	Level of Service	95% BA QUE [ Veh.	EUE Dist ]	Prop. Que	Effective Stop Rate	Aver. No. Cycles	
Sout	h· Powe	veh/h II Butte I	% 	veh/h	%	v/c	sec		veh	ft				mph
3	L2	361	5.0	392	5.0	0.496	11.4	LOS B	3.0	78.6	0.67	0.78	0.99	29.8
8	T1	1	0.0	392 1	0.0	0.496	11.4	LOS B	3.0	78.6	0.67	0.78	0.99	29.0
18	R2	249	6.0	271	6.0	0.490	8.5	LOS B	1.4	35.9	0.57	0.60	0.60	32.3
Appr		611	5.4	664	5.4	0.496	10.2	LOS B	3.0	78.6	0.64	0.00	0.83	30.7
East	: OR126	5												
1	L2	262	9.0	285	9.0	0.497	10.6	LOS B	3.1	85.0	0.62	0.66	0.82	30.7
6	T1	525	13.0	571	13.0	0.497	10.8	LOS B	3.1	85.0	0.61	0.66	0.82	31.8
16	R2	2	0.0	2	0.0	0.497	10.3	LOS B	3.1	84.3	0.61	0.66	0.82	31.5
Appr	oach	789	11.6	858	11.6	0.497	10.7	LOS B	3.1	85.0	0.62	0.66	0.82	31.4
North	n: Powe	II Butte F	lwy											
7	L2	1	0.0	1	0.0	0.007	8.2	LOSA	0.0	0.6	0.69	0.61	0.69	32.8
4	T1	1	0.0	1	0.0	0.007	8.2	LOSA	0.0	0.6	0.69	0.61	0.69	32.7
14	R2	1	0.0	1	0.0	0.007	8.2	LOS A	0.0	0.6	0.69	0.61	0.69	31.8
Appr	oach	3	0.0	3	0.0	0.007	8.2	LOSA	0.0	0.6	0.69	0.61	0.69	32.4
West	t: OR12	6												
5	L2	9	43.0	10	43.0	0.528	11.4	LOS B	3.7	97.0	0.59	0.55	0.71	31.5
2	T1	536	5.0	583	5.0	0.528	10.1	LOS B	3.7	97.3	0.59	0.55	0.71	32.6
12	R2	441	5.0	479	5.0	0.528	10.1	LOS B	3.7	97.3	0.59	0.55	0.71	31.4
Appr	oach	986	5.3	1072	5.3	0.528	10.1	LOS B	3.7	97.3	0.59	0.55	0.71	32.1
All V	ehicles	2389	7.4	2597	7.4	0.528	10.3	LOS B	3.7	97.3	0.61	0.63	0.78	31.5

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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₩ Site: 101 [Powell Butte-126 Build Mitigation PM (Site Folder:

PM Peak)]

New Site

Site Category: (None)

Roundabout

Veh	icle Mo	vemen	t Perforr	nance										
Mov	Turn		PUT	DEM		Deg.		Level of		ACK OF		Effective	Aver.	Aver.
ID		VOLU Total	JMES HV 1	FLO	WS HV1	Satn	Delay	Service	QUE [Veh.	=UE Dist ]	Que	Stop Rate	No. Cycles	Speed
		veh/h	%	veh/h	%	v/c	sec		veh	ft				mph
Sout	th: Powe	II Butte	Hwy											
3	L2	285	15.0	310	15.0	0.543	16.2	LOS C	2.9	80.1	0.72	0.89	1.26	27.9
8	T1	1	0.0	1	0.0	0.543	15.4	LOS C	2.9	80.1	0.72	0.89	1.26	28.1
18	R2	338	5.0	367	5.0	0.584	16.3	LOS C	3.6	94.8	0.75	0.93	1.33	29.0
App	roach	624	9.6	678	9.6	0.584	16.3	LOS C	3.6	94.8	0.74	0.91	1.30	28.5
East	:: OR126	6												
1	L2	360	5.0	391	5.0	0.609	12.3	LOS B	6.0	157.4	0.68	0.77	1.05	30.1
6	T1	719	6.0	782	6.0	0.609	12.4	LOS B	6.0	157.4	0.68	0.77	1.05	31.2
16	R2	2	50.0	2	50.0	0.609	14.0	LOS B	6.0	156.9	0.68	0.77	1.05	29.8
App	roach	1081	5.7	1175	5.7	0.609	12.4	LOS B	6.0	157.4	0.68	0.77	1.05	30.8
Nort	h: Powe	II Butte I	Hwy											
7	L2	1	0.0	1	0.0	0.015	10.1	LOS B	0.0	1.1	0.75	0.74	0.75	32.2
4	T1	1	0.0	1	0.0	0.015	10.1	LOS B	0.0	1.1	0.75	0.74	0.75	32.1
14	R2	3	0.0	3	0.0	0.015	10.1	LOS B	0.0	1.1	0.75	0.74	0.75	31.3
App	roach	5	0.0	5	0.0	0.015	10.1	LOS B	0.0	1.1	0.75	0.74	0.75	31.6
Wes	t: OR12	6												
5	L2	5	0.0	5	0.0	0.687	15.2	LOS C	8.5	221.4	0.76	0.99	1.40	30.4
2	T1	780	6.0	848	6.0	0.687	15.6	LOS C	8.5	221.4	0.75	0.99	1.41	30.2
12	R2	349	15.0	379	15.0	0.687	16.2	LOS C	8.0	218.3	0.73	0.98	1.41	28.9
App	roach	1134	8.7	1233	8.7	0.687	15.8	LOS C	8.5	221.4	0.75	0.99	1.41	29.8
All V	ehicles	2844	7.8	3091	7.8	0.687	14.6	LOS B	8.5	221.4	0.72	0.89	1.24	29.9

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula.

Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Organisation: KITTELSON AND ASSOCIATES INC | Licence: NETWORK / Enterprise | Processed: Monday, December 20, 2021 2:25:33 PM Project: H:\26\26648 - Crossing Trails Destination Resort\SIDRA\26648 - Roundabouts.sip9

▼ Site: 101 [Powell Butte-126 Background Mitigation Sat (Site)

Folder: SAT Peak)]

New Site

Site Category: (None)

Roundabout

Vehi	cle Mo	vement	Perfor	mance						_			_	
Mov ID	Turn	INP VOLU		DEM. FLO		Deg. Satn		Level of Service	95% BA QUE	ACK OF EUE	Prop. Que	Effective Stop	Aver. No.	Aver. Speed
		[ Total veh/h	HV ] %	[ Total veh/h	HV ] %	v/c	sec		[ Veh. veh	Dist ] ft		Rate	Cycles	, mph
South	n: Powe	II Butte I	Hwy											
3	L2	361	5.0	392	5.0	0.474	10.6	LOS B	2.8	72.8	0.64	0.74	0.90	30.1
8	T1	1	0.0	1	0.0	0.474	10.3	LOS B	2.8	72.8	0.64	0.74	0.90	30.2
18	R2	210	6.0	228	6.0	0.274	7.3	LOSA	1.1	27.7	0.55	0.53	0.55	32.9
Appro	oach	572	5.4	622	5.4	0.474	9.4	LOSA	2.8	72.8	0.61	0.66	0.77	31.1
East:	OR126	5												
1	L2	225	9.0	245	9.0	0.444	9.6	LOSA	2.3	63.0	0.59	0.59	0.68	31.2
6	T1	478	13.0	520	13.0	0.444	9.8	LOSA	2.3	63.0	0.59	0.58	0.68	32.2
16	R2	2	0.0	2	0.0	0.444	9.3	LOSA	2.3	62.4	0.59	0.58	0.68	31.9
Appro	oach	705	11.7	766	11.7	0.444	9.7	LOSA	2.3	63.0	0.59	0.58	0.68	31.9
North	n: Powe	II Butte F	łwy											
7	L2	1	0.0	1	0.0	0.007	7.5	LOSA	0.0	0.5	0.66	0.57	0.66	33.1
4	T1	1	0.0	1	0.0	0.007	7.5	LOSA	0.0	0.5	0.66	0.57	0.66	33.0
14	R2	1	0.0	1	0.0	0.007	7.5	LOSA	0.0	0.5	0.66	0.57	0.66	32.1
Appro	oach	3	0.0	3	0.0	0.007	7.5	LOSA	0.0	0.5	0.66	0.57	0.66	32.7
West	: OR120	6												
5	L2	9	43.0	10	43.0	0.484	10.2	LOS B	2.7	69.8	0.53	0.42	0.53	32.0
2	T1	490	5.0	533	5.0	0.484	9.0	LOSA	2.7	70.2	0.53	0.42	0.53	33.1
12	R2	441	5.0	479	5.0	0.484	9.0	LOSA	2.7	70.2	0.53	0.42	0.53	31.9
Appro	oach	940	5.4	1022	5.4	0.484	9.0	LOSA	2.7	70.2	0.53	0.42	0.53	32.5
All Ve	ehicles	2220	7.4	2413	7.4	0.484	9.3	LOSA	2.8	72.8	0.57	0.54	0.64	31.9

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Organisation: KITTELSON AND ASSOCIATES INC | Licence: NETWORK / Enterprise | Processed: Thursday, December 16, 2021 2:41:09 PM Project: H:\26\2648 - Crossing Trails Destination Resort\SIDRA\26648 - Roundabouts.sip9



Wendie L. Kellington P.O. Box 159 Lake Oswego, OR 97034

Fax: (503) 636-0102 Email: <u>wk@klgpc.com</u>

Phone: (503) 636-0069

December 8, 2021

Via Electronic Mail njeffries@sunriseland.com

Nikki Jeffries Sun Communities, Inc. 27777 Franklin Rd., Suite 200 Southfield, MI 48034

RE: Analysis of Definition of "Overnight Lodgings" in Destination Resort Statutes

Dear Nikki:

You indicate that the county has raised a concern whether Park Model Recreational Vehicles ("PMRVs" or "Park Models"), are overnight lodgings at the proposed destination resort. We have analyzed the applicable statutory definitions and relevant legislative history and conclude that there is no reason that the so-called Park Models would not qualify as "overnight lodgings."

#### 1. Introduction

Under the state destination resort statutes, ORS 197.445(4)(b)(A) provides that for destination resorts in Eastern Oregon a "total of 150 units of overnight lodging must be provided." ORS 197.435(5)(b) defines "overnight lodgings" as:

"With respect to lands in eastern Oregon, as defined in ORS 321.805, permanent, separately rentable accommodations that are not available for residential use, including hotel or motel rooms, cabins and time-share units. Individually owned units may be considered overnight lodgings if they are available for overnight rental use by the general public for at least 38 weeks per calendar year through a central reservation system operated by the destination resort or by a real estate property manager, as defined in ORS 696.010. Tent sites, recreational vehicle parks, manufactured dwellings, dormitory rooms and similar accommodations do not qualify as overnight lodgings for the purpose of this definition." (Emphasis supplied).

The Crook County Code (CCC) provisions for destination resorts similarly define "overnight lodgings" as:

"[P]ermanent, separately rentable accommodations, which are not available for residential use. Overnight lodgings include hotel rooms, lodges, cabins and time-share units. Individually owned units may be considered overnight lodgings if they are available for overnight rental use by the general public for at least 45 weeks per calendar year through a central reservation and check-in service. Tent sites, recreational vehicle parks, manufactured dwellings, dormitory rooms and similar accommodations do not qualify as overnight lodgings for the purpose of this definition." CCC 18.116.030(5) (Emphasis supplied).

The import of these definitions is that in order to qualify as "overnight lodgings", the accommodations must be "permanent" and "separately rentable". Further, the accommodations cannot be, among other things, "recreational vehicle parks", "manufactured dwellings" or "similar accommodations".

For the reasons that follow, the Park Models qualify as "overnight lodgings".

#### 2. The Park Models are "permanent" and "separately rentable".

Neither state statute nor the County's code define the term "permanent", therefore, dictionary definitions should guide the County's interpretation of the term. Merriam-Webster's Online Dictionary defines "permanent" as "continuing or enduring without fundamental or marked change: STABLE". <sup>1</sup> Dictionary.com defines "permanent" as "existing perpetually; everlasting, especially without significant change" and "intended to exist or function for a long, indefinite period without regard to unforeseeable conditions". <sup>2</sup>

As an initial matter, it is important to understand what a "Park Model" is in order to determine whether it would be considered "permanent" accommodation. "Park Models" are commonly described as "tiny homes":

<sup>&</sup>lt;sup>1</sup> https://www.merriam-webster.com/dictionary/permanent (last accessed October 25, 2021).

<sup>&</sup>lt;sup>2</sup> https://www.dictionary.com/browse/permanent (last accessed October 25, 2021).



Although they have the ability to be towed by vehicle to different destinations and used as temporary dwellings or for seasonal or recreational use, Park Models here would be permanently sited in a single location and secured to foundations of cinder block piers.



The Recreational Vehicle Industry Association (RVIA) defines "Park Models" as "unique towable RV[s] designed to provide temporary living quarters for recreational, seasonal, camping or travel use", that are "built on a single trailer chassis, mounted on wheels and have a gross trailer area not exceeding 400 square feet", and "are certified by their manufacturers to comply with the American National Standards Institute (ANSI) A119.5 Park Model Recreational Vehicle Standard."

<sup>&</sup>lt;sup>3</sup> https://www.rvia.org/advocacy/policies/park-model-rvs (last accessed October 29, 2021).

Oregon has also recently adopted a definition for Park Model RVs that is similar to RVIA's definition, at ORS 803.036(1)(b):<sup>4</sup>

"(b) 'Park model recreational vehicle' means a recreational vehicle, as defined in ORS 174.101, that:

- "(A) Is designed for use as temporary living quarters;
- "(B) Is built on a single chassis mounted on wheels;
- "(C) Has a gross trailer area that does not exceed 400 square feet;
- "(D) Is more than eight and one-half feet wide;
- "(E) Complies with any manufacturing standards that the Director of Transportation recognizes as being in widespread use and applicable to park model recreational vehicles; and
- "(F) Meets any other requirements imposed by the director by rule."

"Recreational vehicle" is defined by ORS 174.101(3) as "a vehicle with or without motive power that is designed for use as temporary living quarters and as further defined by rule by the Director of Transportation." The Oregon Department of Transportation (ODOT) has defined Park Model to be a recreational vehicle that has all of the above characteristics and that "[i]s certified by the manufacturer or builder \* \* \* as complying with the version of the ANSI A119.5 standard for the construction of park model recreational vehicles that was in effect at the time of manufacture." OAR 735-022-0140(5). Accordingly, if Sun Communities' Park Models meet the above definition and are certified as complying with ANSI standards, they are considered "Park model recreational vehicles" under the statute.

Notwithstanding that the RVIA and statutory definitions describe Park Models as "temporary" living quarters, they are "permanent" accommodations for the temporary use of destination resort visitors under the relevant statutes. In this regard, just as hotel and motel rooms, cabins and other visitor-oriented accommodations are not intended for full-time residency, Park Models are permanent structures that serve as temporary living quarters too. The destination resort statute's use of the term "permanent" cannot reasonably be interpreted to refer to the *use* of a structure, but rather to the nature of the structure itself. This is plain by the nature of the inquiry - what are "overnight lodgings?" which is inherently a transitory use of a permanent structure, as here. Park Models are "permanent" structures because Sun Communities intends to secure them on foundations with cinder block piers to remain indefinitely at the destination resort and will not be moved. The Park Models are not, by contrast, "temporary" shelters, such as tents and the like, that are designed to be set up for each use and then taken down when unoccupied or easily moved to another location. Under the

<sup>&</sup>lt;sup>4</sup> This statute deals with the optional titling of park model RVs by the Oregon Department of Motor Vehicles, but is the only definition of "park model recreational vehicle" in state statute and will likely be considered a relevant definition of the term "Park Model" for determining whether Park Models are excluded from the definition of "overnight lodgings".

dictionary definitions the County should support a determination that the Park Models are "permanent" accommodations.

The Park Models are also "separately rentable" accommodations. Each Park Model constitutes a separate unit of accommodation complete with living, sleeping, cooking and toilet facilities, that is separately available for rent by the destination resort's visitors. The County should support a determination that the Park Models are "separately rentable".

#### 3. The Park Models are "cabins".

There is no principled reason why the Park Models should not be considered "cabins", which are an expressly allowed form of overnight lodging under the statute. There is no definition of "cabin" in state statutes or the County code, so again, dictionary definitions guide the interpretation of the term. "Cabin" is defined, in relevant part, in Merriam-Webster's Online Dictionary as "a small one-story dwelling usually of simple construction". Similarly, Dictionary.com defines "cabin", in relevant part, as "a small house or cottage, usually of simple design and construction." Park Models are small - typically 400 sq. ft. or smaller in size -- and composed of relatively simple design and construction - typically an open living and cooking area, bathroom, and bedroom and/or sleeping loft. There is no reason why Park Models are not "cabins" within the dictionary definitions of that term. Nothing in the definitions suggest that a cabin cannot be constructed elsewhere, be transported to the destination resort site, and be placed on and secured to a foundation. The County should support a determination that the Park Models are "cabins".

#### 4. The Park Models should not be considered a "recreational vehicle park".

Although the Park Models would be considered "recreational vehicles" under RVIA and the state's definitions, they alone or with others are not a "recreational vehicle *park*" (which is specifically excluded from the definition of "overnight lodgings") for the purposes of the destination resort statutes. ORS 197.492(3)<sup>7</sup> provides that the term "recreational vehicle park" has the following meaning:

- "(a) [A] *place* where two or more recreational vehicles are located within 500 feet of one another on a lot, tract or parcel of land under common ownership and having as its primary purpose:
  - "(A) The renting of *space* and related facilities for a charge or fee; or

<sup>7</sup> Although ORS 197.492 states that the definitions are "[a]s used in this section and ORS 197.493" and do not specifically refer to the destination resort statutes, there are no other definitions of "recreational vehicle park" in statutes or regulations or in the County code. Therefore, the definition at ORS 197.492(3) is likely to be viewed as informing the meaning of "recreational vehicle park".

<sup>&</sup>lt;sup>5</sup> https://www.merriam-webster.com/dictionary/cabin (last accessed December 6, 2021).

<sup>&</sup>lt;sup>6</sup> https://www.dictionary.com/browse/cabin (last accessed December 6, 2021).

- "(B) The *provision of space* for free in connection with securing the patronage of a person.
- "(b) Does not mean:
  - "(A) An area designated only for picnicking or overnight camping; or
  - "(B) A manufactured dwelling park or mobile home park." (Emphasis supplied.)

Key to this definition is that a "recreational vehicle *park*" has as its "primary purpose" the renting or provision of "*space*". Sun Communities overnight lodgings would not be renting or providing "space" for visitors to park their own RVs. Rather, Sun Communities would own the Park Model units themselves and rent them out to destination resort visitors. Because the primary purpose of the Park Model units is not renting or provision of space for visitors to park their own RVs, rather they are the permanent overnight lodgings; they are not properly considered a "recreational vehicle park".

This interpretation is supported by the adoption history of the amendments to Goal 8 authorizing destination resorts and ORS 197.435(5)(b). In a 1984 memo, the director of DLCD explained that overnight lodgings should mean "separately rentable units with complete toilet facilities, in permanent structures" and that "recreational vehicle *pads*" should not qualify. The Park Models will be separately rentable permanent structures with not only complete toilet facilities, but complete sleeping and cooking facilities as well. Sun Communities would not count bare "recreational vehicle pads" as "overnight lodgings". Accordingly, the County should support a determination that the Park Models are not a "recreational vehicle park".

#### 5. The Park Models are not "manufactured dwellings".

Oregon statutes provide two similar definitions of "manufactured dwelling", one of which expressly excludes "recreational vehicles" from the definition and another which expressly excludes structures constructed under the state's "Small Home Specialty Code". Both definitions should be relevant to the County's interpretation of the term. ORS 446.003 states that it provides definitions for, among others, ORS Chapter 197, which includes the destination resort statutes, "except as provided in ORS 446.007", and provides the following definition of "manufactured dwelling":

- "(21)(a) 'Manufactured dwelling' means a residential trailer, mobile home or manufactured home.
- "(b) 'Manufactured dwelling' does not include any building or structure constructed to conform to the State of Oregon Structural Specialty Code, the Low-Rise Residential Dwelling Code adopted pursuant to ORS 455.100 to 455.450 and 455.610 to 455.630 or the Small Home Specialty Code adopted under

section 2, chapter 401, Oregon Laws 2019." (Emphasis supplied).

ORS 446.007 states that "[n]otwithstanding ORS 446.003", it also provides definitions for ORS Chapter 197, and provides the following definition of "manufactured dwelling":

#### "(3) 'Manufactured dwelling':

- "(a) Means a residential trailer, mobile home or manufactured home.
- "(b) Does not include any building or structure constructed to conform to the State of Oregon Structural Specialty Code or the Low-Rise Residential Dwelling Code adopted pursuant to ORS 455.100 to 455.450 and 455.610 to 455.630 or any unit identified as a recreational vehicle by the manufacturer." (Emphasis supplied).

The Crook County Code defines "manufactured dwelling" in the same manner as the latter statute, expressly excluding "recreational vehicles" identified as such by the manufacturer:

"Manufactured dwelling' means a residential trailer, mobile home or manufactured home. It does not include any building or structure constructed to conform to the State of Oregon Structural Specialty Code or the Low-Rise Residential Dwelling Code adopted pursuant to Oregon Revised Statutes, or any unit identified as a recreational vehicle by the manufacturer." CCC 18.08.130.

Accordingly, under the statutes and the County code, "manufactured dwelling" is an umbrella term that encompasses "residential trailers", "mobile homes" and "manufactured homes", but excludes "recreational vehicles" and structures constructed under the state's Small Home Specialty Code. There should be no concern that Park Models would fall under the definition of "manufactured dwellings".

The three categories of "manufactured dwellings" all have essentially the same meaning, distinguished only by when they were built. "Residential trailers" are built before 1962, 8 "mobile homes" are built between 1962 and 1976, 9 and "manufactured homes" are built after 1976. 10

<sup>9</sup> ORS 446.003(27).

<sup>&</sup>lt;sup>8</sup> ORS 446.003(30).

<sup>&</sup>lt;sup>10</sup> ORS 446.003(23).

Because the Park Models will be newly constructed, the only possible question is whether they could be considered "manufactured homes". ORS 446.003(23) defines "manufactured home", in relevant part, as:

"[A] structure constructed for movement on the public highways that has sleeping, cooking and plumbing facilities, that is intended for human occupancy, that is being used for residential purposes and that was constructed in accordance with federal manufactured housing construction and safety standards and regulations in effect at the time of construction." (Emphasis supplied).

Based on the above definition, whether the Park Models are considered "manufactured homes" will turn on whether they are constructed under "federal manufactured housing construction standards and regulations" that are in effect at the time of construction.

# a. "Constructed in accordance with federal manufactured housing construction and safety standards and regulations"

The federal Department of Housing and Urban Development (HUD) regulates the construction of manufactured homes through its Manufactured Home Construction and Safety Standards. Park Models are specifically exempt from regulation by HUD as they are considered "recreational vehicles" and not "manufactured homes". HUD defines "recreational vehicle" as "[a] vehicle or vehicular structure not certified as a manufactured home" that is "[d]esigned only for recreational use and not as a primary residence or for permanent occupancy" and that is "[b]uilt and certified in accordance with either NFPA 1192 or ANSI A119.5". 24 CFR § 3282.15. Accordingly, where the Park Models are designed only for recreational use and are build to ANSI A119.5 standards, then they are exempt from federal HUD manufactured housing construction and safety standards. Thus, if the Park Models qualify as "recreational vehicles" under the HUD regulations they are exempt from HUD regulation, and are not considered "manufactured dwellings" under Oregon's statutory definition.

# b. Park Models are not "manufactured homes" if they are constructed under Oregon's Small Home Specialty Code.

Park Models are also not considered "manufactured dwellings" if they are constructed under the state's "Small Home Specialty Code". ORS 446.003(21)(b).

ORS 446.003(21)(b) specifically excludes from the definition of "manufactured dwelling", structures constructed under the state's "Small Home Specialty Code". A "small home" is defined as "a dwelling that is not more than 400 square feet in size." ORS 455.616. The Small Home Specialty Code requires that the 2018 International Residential Code, including but not limited to Appendix Q (Tiny Houses), be used for the design and construction of small homes. <sup>11</sup> Sec. 2(2), chapter 401, Oregon Laws 2019. This exclusion is a result of a 2019

<sup>&</sup>lt;sup>11</sup> https://codes.iccsafe.org/content/IRC2018/appendix-q-tiny-houses (last accessed October 29, 2021).

Oregon law (HB 2423) that was adopted to address the state's housing crisis and the need for alternative types of housing. Accordingly, if the Park Models are 400 sq. ft. or less and are built to the Small Home Specialty Code, they are not considered "manufactured dwellings" under ORS 446.003.

#### 6. The Park Models should not be considered "similar accommodations".

The statute and County code definition of "overnight lodgings" excludes "[t]ent sites, recreational vehicle parks, manufactured dwellings, dormitory rooms and *similar accommodations*". (Emphasis supplied). We understand that the county expressed concern that even if the Park Models are not "recreational vehicle parks" and are statutorily excluded from the definition of "manufactured dwellings", they could nevertheless be considered accommodations that are "similar" to such and thus not qualify as "overnight lodgings". However, this position is not supported by the purpose policy or context of the standard or in particular the legislative history of the adoption of the definition of "overnight lodgings".

To explain, during the proceedings that led up to the adoption of the destination resort criteria in the 1980s, one commenter suggested that the then-undefined term "overnight lodgings" was too broad. That commenter suggested that: "An enterprising schemer trying to meet the 150-unit criteria might try to say that a unit is also a tent, a cubicle in a dormitory or barracks, or possibly a small single-wide trailer specially designed to meet this criteria." DLCD took this comment to heart and recommended that the definition of "overnight lodgings" should be revised to indicate that the term means "separately rentable units with complete toilet facilities, in permanent structures" and that "tent sites, recreational vehicle pads, mobile homes, dormitory rooms and similar accommodations" should not qualify as "overnight lodgings".

DLCD's reasoning for the exclusions was "to ensure that resorts sited under [Goal 8] are at the same high level of quality the Oregonian's [sic] associate with existing destination resorts." DLCD recognized that legislating "quality development" through clear and objective standards would be difficult and so, instead, adopted the list of excluded accommodation types it deemed would not meet the high level of quality that was expected of destination resorts. The disconnect with the legislative intent is that at the time of the adoption of the destination resort criteria in the 1980s, "single-wide trailers" and "mobile homes" were not constructed to the highquality level of craftsmanship that they are today, (in fact, there was very little regulation from the government over their construction), and there was a public perception of these types of accommodations being dingy or low-quality. Today, nearly 40 years later, these types of accommodations, and Park Models especially, are constructed to high-quality levels of craftsmanship, their construction is regulated by the government, and they are extremely popular and highly sought-after forms of accommodation. It's no surprise that Airbnb has an entire category of "unique stays" that feature tiny homes, container homes, treehouses and yurts, among others. For these reasons, the County should support a determination that Sun Communities' proposed high-quality Park Models are not "similar" to tent sites, RV parks, manufactured dwellings, and dorm rooms, in light of the legislative intent of the destination resort criteria to ensure "high quality" accommodations.

#### Conclusion

For the foregoing reasons, the County should support a determination that Sun Communities' proposed destination resort Park Models are "cabins" and are not "tent sites, recreational vehicle parks, manufactured dwellings, dormitory rooms" or "similar accommodations" that are excluded from the definition of "overnight lodgings". The Park Models are not a "recreational vehicle park". The Park Models are not "manufactured dwellings" if they are "recreational vehicles" constructed to ANSI standards or if they are constructed to the state's Small Home Specialty Code. The Park Models are also not "similar" to manufactured dwellings, or any of the other excluded types of accommodations, in light of the legislative history of the adoption of the destination resort criteria that establishes the intent of the adopting body was to ensure a "high quality" level of accommodations. Accordingly, the County should support a determination that the Park Models qualify as "overnight lodgings".

It is certainly possible that an opponent to the project could complain about the demographic of Sun Communities' high quality product that markets, and is affordable to, all Oregonians like teachers, grocery clerks and emergency first responders. But the destination resort statutes are not designed to ensure destination resorts are accessible only to the rich. They are simply designed to ensure that destination resorts are high quality facilities with specific elements. As demonstrated by its history elsewhere Sun will certainly deliver a high quality product with all of the required elements. I would expect Crook County to enthusiastically welcome Sun and its product.

Please let us know if you have any questions.

Very truly yours,

Wendie L. Kellington

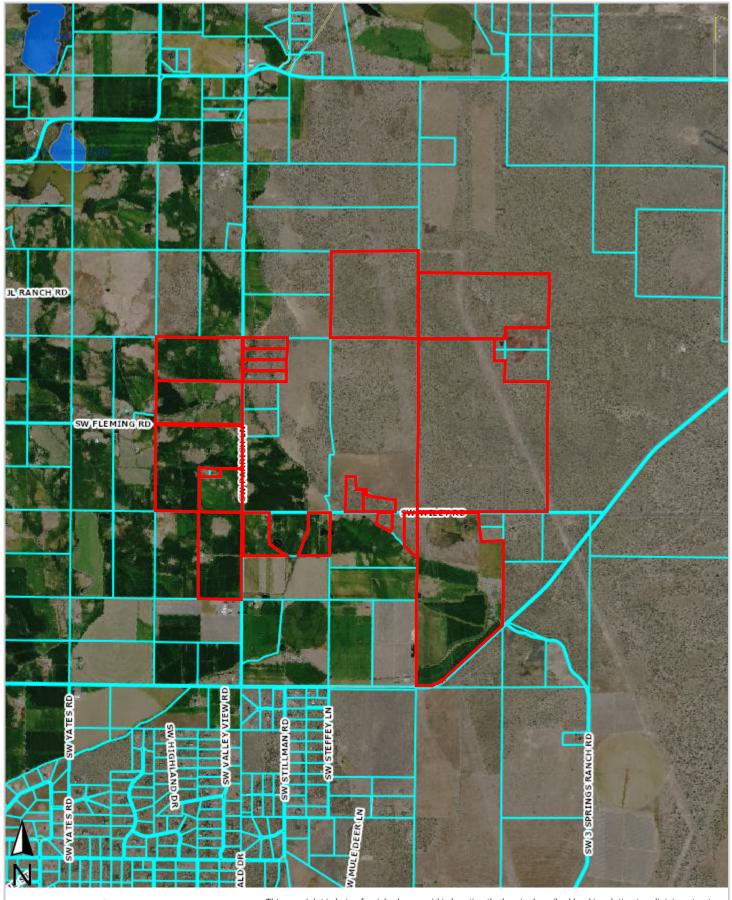
ulidie f. Keelings

WLK:wlk CC: Client

## **Rough Order of Magnitude Costs:**

The estimate of construction costs for the site amenities have been based on the Applicant past construction costs. The estimated costs are as follows:

Description	Units	Unit Cost	Total
Commercial/Overnight Accommodations		4	4
Micro Retail Buildings	1 Lump Sum	\$4,000,000	\$4,000,000
Eating Facilities for 100 Persons	100 People	Located in	
Minimum		Clubhouse	
Meeting Space for 100 Persons	100 People	Located in	
		Clubhouse	
Main Street Plaza	12,500 SF	\$ 7.50	\$93,750
Overnight Rentals/Cabins	200 Each	\$150,000	\$30,000,000
Subtotal			\$34,093,750
Recreation Areas			
Clubhouse with Outdoor Covered Area	9,900 SF	\$ 450	\$4,455,000
Open-Air Shade Structures (Grill &	1 Lump Sum	\$300,000	\$300,000
Seating)	·		
Pool with Cabanas	1 Lump Sum	\$850,000	\$850,000
Spas	2 Each	\$75,000	\$150,000
Event Lawn	1 Lump Sum	\$200,000	\$200,000
Outdoor Grill Kitchen with Seating	1 Lump Sum	\$225,000	\$225,000
Trail (8' wide)	10,000 SF	\$7.50	\$75,000
Pickleball Courts	6 Each	\$65,000	\$390,000
Basketball Court	1 Each	\$110,000	\$110,000
Playground	1 Lump Sum	\$185,000	\$185,000
Retaining Walls	16,000 SF	\$30	\$480,000
Parking Area	17,000 SF	\$45	\$765,000
Landscaping and Irrigation (clubhouse area)	1 Lump Sum	\$900,000	\$900,000
Signage/Monument Signs/Pavement Marking	1 Lump Sum	\$100,0000	\$100,000
Subtotal			\$9,185,000
Total			\$43,278,750
Contingency	15%		\$6,491,810
Contractor Overhead & Profit	12%		\$5,193,450
Construction Management	6.5%		\$2,813,120
Total Estimated Development Costs:			\$57,777,131





This map/plat is being furnished as an aid in locating the herein described land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

Parcell	Parcelld OwnerNameLabelFormat	OwnerAddr	OwnerCityNm Own	OwnerState	nerState OwnerZIP OwnerOccupiedInd		SiteAddr	SiteCity	SiteState SiteZIP	P SaleAmt DocRcrdgDt MktTtlVal	MktTtlVal LegalDsc	TaxAcctNum
1151	James Crawford	3008 SE Tolman St	Portland	OR	97202	FALSE		•	IR 97753	\$24,500.00 01/01/1987	\$800.00 Township: 15S, Range: 15E, Section: 08	1515080000200
1158	Mike Brock	60749 River Bend Dr	Bend	OR	97702	FALSE		•	IR 97753	\$170,000.00 01/01/1995	\$785,120.00 Township: 15S, Range: 15E, Section: 16	151500002400
1194	Carole Hancock	2924 SW Parrish Ln	Powell Butte	OR	97753	TRUE 2	2924 SW Parrish Ln	Powell Butte (	IR 97753	\$90,000.00 01/01/1993	\$358,090.00 Township: 15S, Range: 15E, Section: 17	1515170000101
1195	Whispering Winds Enterprises LLC	PO Box 1687	Prineville	OR	97754	FALSE		•	IR 97753	\$136,000.00 07/10/2017	\$200,410.00 Township: 15S, Range: 15E, Section: 17	1515170000102
1196	Alisha Bennett	915 SW Rimrock Way Suite 201-149	Redmond	OR	97756	FALSE 3	3174 SW Parrish Ln	Powell Butte (	R 97753	\$397,000.00 06/21/2017	\$537,240.00 Township: 15S, Range: 15E, Section: 17	1515170000103
1197	Steven & Dianna Brauchler	3092 SW Parrish Ln	Powell Butte	OR	97753	TRUE	3092 SW Parrish Ln	Powell Butte (	IR 97753	\$142,000.00 01/01/1995	\$526,180.00 Township: 15S, Range: 15E, Section: 17	1515170000104
1199	David Fisher Jr	3093 SW Parrish Ln	Powell Butte	OR	97753	TRUE	3093 SW Parrish Ln	Powell Butte (	IR 97753	\$775,000.00 08/19/2014	\$619,690.00 Prineville Ranch Lot: 11, Township: 15S, Range: 15E, Section: 18	1515180000100
1200	Benny Allen	8011 NE Meadow Ridge Rd	Prineville	OR	97754	FALSE 1	.0091 SW Fleming Rd	Powell Butte (	R 97753	\$0.00 01/07/2021	\$211,980.00 Township: 15S, Range: 15E, Section: 18	1515180000200
1204	Danielle Paul	4893 NE Ochoco Hwy	Prineville	OR	97754	FALSE 1	.0402 SW Fleming Rd	Powell Butte (	IR 97753	1 \$1,395,000.00 05/28/2021	\$828,770.00 Township: 155, Range: 15E, Section: 18	1515180000500
1214	Brian & Neva Allen	90225W Wiley Road	Powell Butte	OR	97753	TRUE	9022 SW Wiley Rd	Powell Butte (	IR 97753	\$50,000.00 01/01/1989	\$337,620.00 Township: 15S, Range: 15E, Section: 20	1515 200000200
1216	Penelope Allen	90225W Wiley Rd	Powell Butte	OR	97753	FALSE		•	R 97753		\$20,660.00 Township: 15S, Range: 15E, Section: 20	1515 200000 300
13249	Crook County	300 NE Third St	Prineville	OR	97754	FALSE			IR 97753		\$125,100.00 Township: 15S, Range: 15E, Section: 09	151500001206
13517	Mt Grizzly	PO Box 4	Prineville	OR	97754	FALSE		•	IR 97753		\$221,180.00 Township: 15S, Range: 15E, Section: 09	151500001206
14400	Samuel Stafford	8600 SW Wiley Rd	Powell Butte	OR	97753	FALSE 8	300 SW Wiley Rd	Powell Butte (	IR 97753	\$0.00 08/07/2014	\$1,169,310.00 Lot: 36, Block: 95, Township: 155, Range: 15E, Section: 20	1515 200000 103
16701	Michael & Sue Dunn	8565 SW Wiley Rd	Powell Butte	OR	97753	TRUE 8	3565 SW Wiley Rd	Powell Butte (	IR 97753	\$176,000.00 04/03/2015	\$758,150.00 Lot: 18, Block: 4, Township: 15S, Range: 15E, Section: 17	1515170000107
16702	Jason & Denise Wilkins	8351SW Wiley Rd	Powell Butte	OR	97753	TRUE 8	8351 SW Wiley Rd	Powell Butte (	IR 97753	\$437,000.00 01/01/2009	\$1,025,610.00 Lot: 18, Block: 4, Township: 15S, Range: 15E, Section: 17	1515170000108
19136	Waibel Joseph & Thelma Rev Living Trust	7305 SW Hwy 126	Powell Butte	OR	97753	TRUE 7	7305 SW Hwy 126	Powell Butte (	IR 97753		\$896,670.00 Township: 15S, Range: 15E, Section: 21	1515210000100
19613	Robinson, Dorothy M Trust	4271 SW Parrish Ln	Powell Butte	OR	97753	TRUE 4	4271 SW Parrish Ln	Powell Butte (	R 97753		\$357,740.00 Township: 15S, Range: 15E, Section: 18	1515180000600
19959	Kori Urell	7111SW Highland Dr	Powell Butte	OR	97753	FALSE 8	3004 SW Wiley Rd	Powell Butte (	IR 97753	\$159,000.00 06/04/2019	\$197,780.00 Township: 15S, Range: 15E, Section: 20	1515 200000 105
19989	Malott Mark And Ann LLC	PO Box 127	Powell Butte	OR	97753	FALSE 4	1781 SW Parrish Ln	Powell Butte (	OR 97753	\$0.00 01/01/2010	\$412,230.00 Township: 155, Range: 15E, Section: 19	1515190000101

James Crawford 3008 SE Tolman St Portland OR 97202 Mike Brock 60749 River Bend Dr Bend OR 97702 Carole Hancock 2924 SW Parrish Ln Powell Butte OR 97753

Whispering Winds Enterprises LLC PO Box 1687 Prineville OR 97754 Alisha Bennett 915 SW Rimrock Way Suite 201-149 Redmond OR 97756 Steven & Dianna Brauchler 3092 SW Parrish Ln Powell Butte OR 97753

David Fisher Jr 3093 SW Parrish Ln Powell Butte OR 97753 Benny Allen 8011 NE Meadow Ridge Rd Prineville OR 97754 Danielle Paul 4893 NE Ochoco Hwy Prineville OR 97754

Brian & Neva Allen 9022 SW Wiley Road Powell Butte OR 97753 Penelope Allen 9022 SW Wiley Rd Powell Butte OR 97753 Crook County 300 NE Third St Prineville OR 97754

Mt Grizzly PO Box 4 Prineville OR 97754 Samuel Stafford 8600 SW Wiley Rd Powell Butte OR 97753 Michael & Sue Dunn 8565 SW Wiley Rd Powell Butte OR 97753

Jason & Denise Wilkins 8351 SW Wiley Rd Powell Butte OR 97753 Waibel Family 7305 SW Hwy 126 Powell Butte OR 97753 Robinson Family 4271 SW Parrish Ln Powell Butte OR 97753

Kori Urell 7111 SW Highland Dr Powell Butte OR 97753

Malott Mark And Ann LLC PO Box 127 Powell Butte OR 97753