

DATE: May 25, 2023

TO: Shane Witham / City of Keizer

FROM: Tegan Enloe, PE / Enloe Consulting, LLC

SUBJECT: Zone Change Request for 1141 Chemawa Rd N – Traffic Analysis

## **Background**

The applicant seeks to partition their property located at 1141 Chemawa Rd N in Keizer. The current tax lot is 4.4 acres in size. The partition would create a new one-acre parcel on the north side of the property. The property would be served via a single access point on Willow Lake Rd N. The applicant intends to position the driveway as the south leg of the existing intersection of Willow Lake Rd N and Bobbie Ct N.

The property is currently zoned as commercial general. The applicant would like for the new one-acre partition to be zoned as medium density residential. This is consistent with adjacent zoning located immediately to the east of the property. The applicant intends to build multi-family housing on the site.

**Table 1: Property Details** 

Characteristics	Information
Existing Conditions	
Property Address	1141 Chemawa Rd N, Keizer
Property Size	4.4 acres
Zoning	CG
Land Use	Sanitation and Recycling Center
Proposed Use	
Zoning	RM
Land Use	Multi-family housing



#### **Zone Change Analysis**

The applicant seeks to convert one acre of commercial general (CG) zoning to medium density residential (RM). Commercial general zoning allows for "warehousing, wholesale commercial sales and services with related outdoor storage or retail sales". A change to medium density residential would allow for multi-family housing. **Table 2** below provides a comparison of possible worst-case scenario developments under both zoning categories. For the purposes of comparison, a maximum lot coverage of 70% is used to estimate usable building SQFT. For multifamily, a density of 25 units per acre is assumed.

**Table 2: Trip Generation Estimates** 

Land Use (Code)	Size	Daily Trips	AM Peak Hour Trips	PM Peak Hour Trips
Commercial General Zoning				
Building Materials and Lumber Store (812)	22.422	520	48	69
Nursery Garden Center (817)	30,492 SQFT	2,077	244	255
Shopping Center (820)	3011	1,129	26	104
Medium Density Residential Zoning				
Multi-family Low-Rise (220)	25 units	169	10	13

Vehicle trip estimates are generated using the Institute of Transportation Engineers Trip Generation Manual, 11th Edition

Multiple uses under the existing commercial general zoning generate more trips than would be allowed under the proposed medium density residential zoning worst-case scenario. This means the zone change could be approved without creating and increase in allowed vehicle trips to the surrounding roadway network.

#### **Pedestrian Access**

The City requested consideration as to how a proposed multi-family development would connect pedestrians to the surrounding transportation network. The property in question is located on the south side of Willow Lake Rd N and would have a proposed driveway at the existing intersection of Willow Lake Rd N and Bobbie Ct N. Willow Lake Rd N lacks sidewalk connectivity on the south side of the roadway, but has a complete connection along the north side that would allow pedestrians to access the surrounding sidewalk network on Windsor Island Rd N to reach local destinations.

#### Sidewalk Extension

The applicant reviewed the option of building a sidewalk connection on the south side of Willow Lake Rd N from the project parcel to Windsor Island Rd N, but determined it was non-viable because of house placement at 1156 Willow Lake Rd N. This property has a covered garage area that extends to the edge of the right-of-way and would require the taking of the building to be able to complete sidewalk along its frontage. The most feasible option for pedestrian connectivity is for pedestrians to cross at the existing intersection of Willow Lake Rd N and Bobbie Ct N to access the north sidewalk.



#### **Existing Crossing Opportunities**

The north side of Willow Lake Rd N is fully developed with single family housing between Woodwind Ct N and Windsor Island Rd N. There are intersections located approximately every 230 feet along the corridor. The presence of an intersection creates a legal crossing opportunity for pedestrians, and none of the north/south crossings at these intersections have been marked as closed, which means pedestrians are currently free to use them all as crossing locations for Willow Lake Rd N. The introduction of the driveway at the intersection of Willow Lake Rd N and Bobbie Ct N would not create a new crossing location since one already legally exists.

### **Existing Traffic Volumes**

Traffic counts were collected for the project on April 4<sup>th</sup>, 2023. A 24-hour tube count was positioned on Willow Lake Rd N between Todd Ct N and Bobbie Ct N to measure speed, volume and vehicle breakdown. AM Peak Hour was measured as 7:30 AM – 8:30 AM with a volume of 120 vehicles/hour. The PM Peak Hour is identified as 5:00 PM to 6:00 PM with a volume of 121 vehicles/hour.

# **Crossing Needs**

**Figure 1** is taken from NCHRP 562 and ODOT's Unsignalized Intersection Pedestrian Crossing Calculator. The counts collected on April 4<sup>th</sup> show the peak hour vehicle volume on Willow Lake Rd N to be 121 vehicles/hour. The hourly volume would have to significantly increase before treatment beyond a crosswalk would be recommended.

The ITE Trip Generation Manual, 11<sup>th</sup> Ed, is used to forecast the number of pedestrian trips associated with the proposed development. With 25 units of multi-family, the expected walk/bike/transit trips in the AM and PM Peak hours are one trip per hour. The combination of low pedestrian trips and low vehicles per hour indicates no treatment is recommended as a result of the proposed zone change.

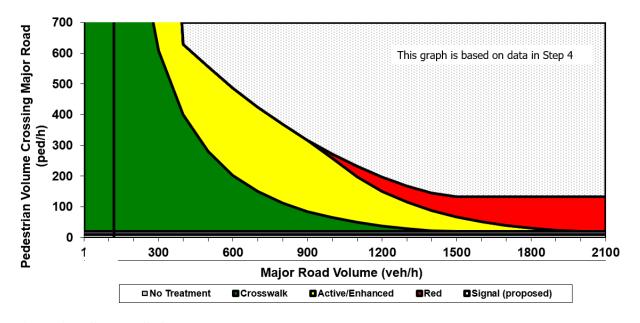


Figure 1: NCHRP 562 Chart



#### Speed

A speed study was also completed as part of the April 4<sup>th</sup> data collection. The average speed was recorded at 25 mph with an 85<sup>th</sup> percentile speed of 30 mph. These values are in line with expectations for a posted 25 mph roadway and do not indicate an issue with speeding.

#### Vehicle Class Distribution

The April 4<sup>th</sup> data collection also includes a vehicle classification breakdown. **Table 3** outlines the distribution. The roadway has a higher percentage of heavy vehicles. Quality Concrete and Knife River both have yards located on the western end of Willow Lake Rd N and send their trucks to and from their sites via Willow Lake Rd N.

**Table 3: Vehicle Classification Distribution** 

Vehicle Classification	Distribution
Bicycles	0.1%
Cars & Trailers	59.9%
2 Axle Long	19.6%
Buses	1.4%
2 Axle 6 Tire	10.8%
Misc.	8.2%
Total	100%

Higher percentages of heavy vehicles can increase safety concerns for pedestrian crossings. It will be important to make sure the final design provides adequate site distance for approaching vehicles to see crossing pedestrians, and for pedestrians to safely identify vehicle gaps in which to cross. Willow Lake Rd N is relatively straight near the proposed project site, which should lend itself to a functional design. There are also several existing pedestrian crossings along the stretch of Willow Lake Rd N and a review of the most recent five years of crash data (2017-2021) does not show any crash records involving pedestrians along the corridor.

#### Crash Data

Crash data records were retrieved for Willow Lake Rd N from 2017 to 2021. Only one crash is recorded during this timeframe. It occurred at the intersection of Willow Lake Rd N and Lacey St N in 2020. The crash involved a parked motor vehicle and is coded as a sideswipe overtaking collision. The crash was an Injury B collision and occurred late morning on a dry and foggy day.

#### Safe Routes to School

The project site is located within the Keizer Elementary School boundary. The Safe Routes to School (SRTS) program for Keizer Elementary directs students to walk on Winsor Island Rd N and then cross at Koala St N to head to campus. There is a marked, designated school crosswalk at the intersection of Windsor Island Rd N and Koala St N. Students from the proposed multi-family development would use the existing intersection crossing at Willow Lake Rd N and Bobbie Ct N, then travel east on the sidewalk



along the north side of Willow Lake Rd N to connect with Windsor Island Rd N. This would put them on the designated SRTS walk route and able to make their way to the school campus.

# **Conclusion**

Data provided in this memorandum indicates the zone change can be approved without a significant increase in vehicle trips. In addition, there is an existing pedestrian crossing at the intersection of Willow Lake Rd N and Bobbie Ct N that would allow for pedestrians to connect into the sidewalk network to complete their trips.



# **Attachments:**

Site Plan Traffic Counts Crash Data School Attendance Boundary Map SRTS Walk Route Map

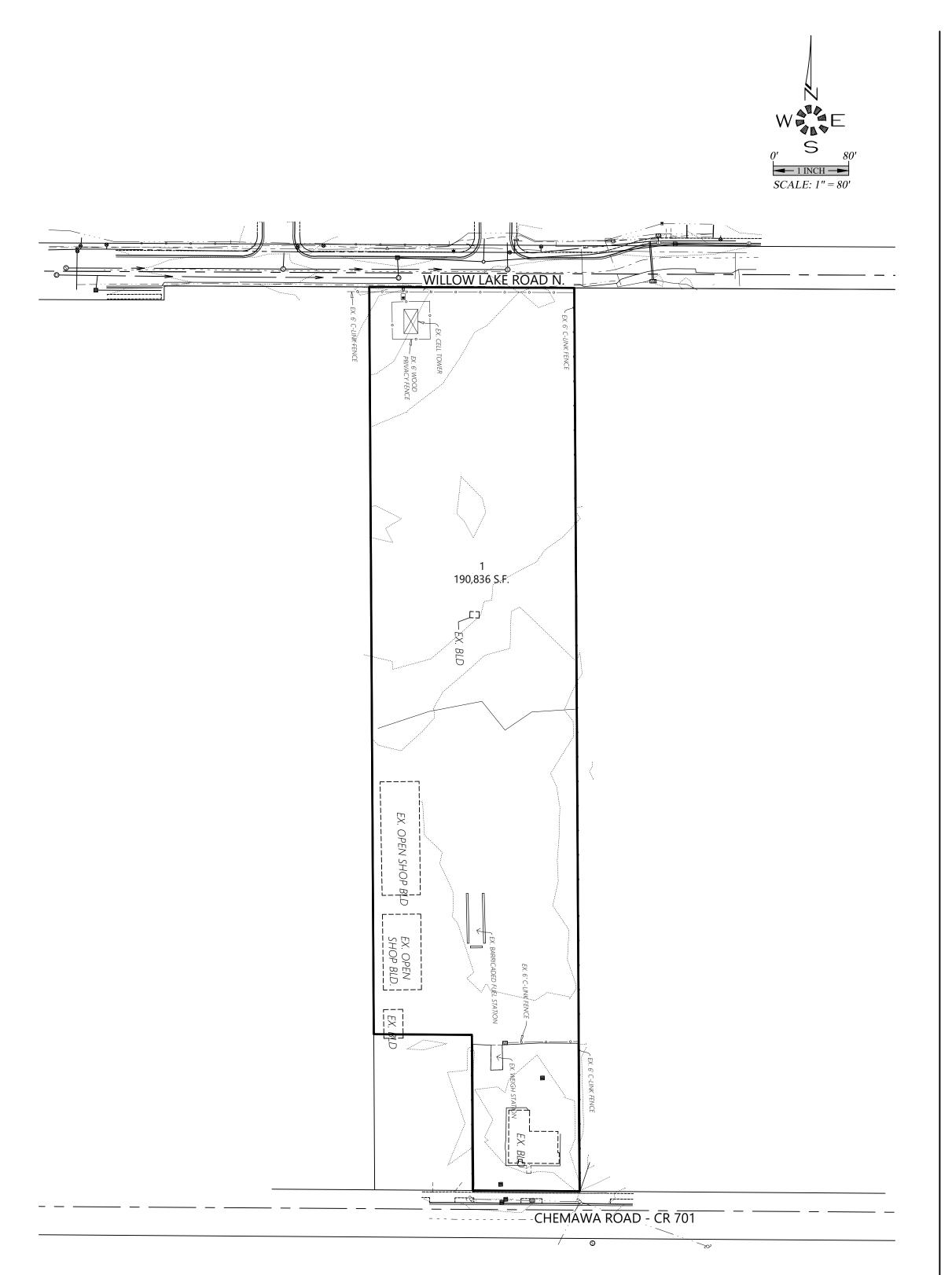
# CHEMAWA PARTITION

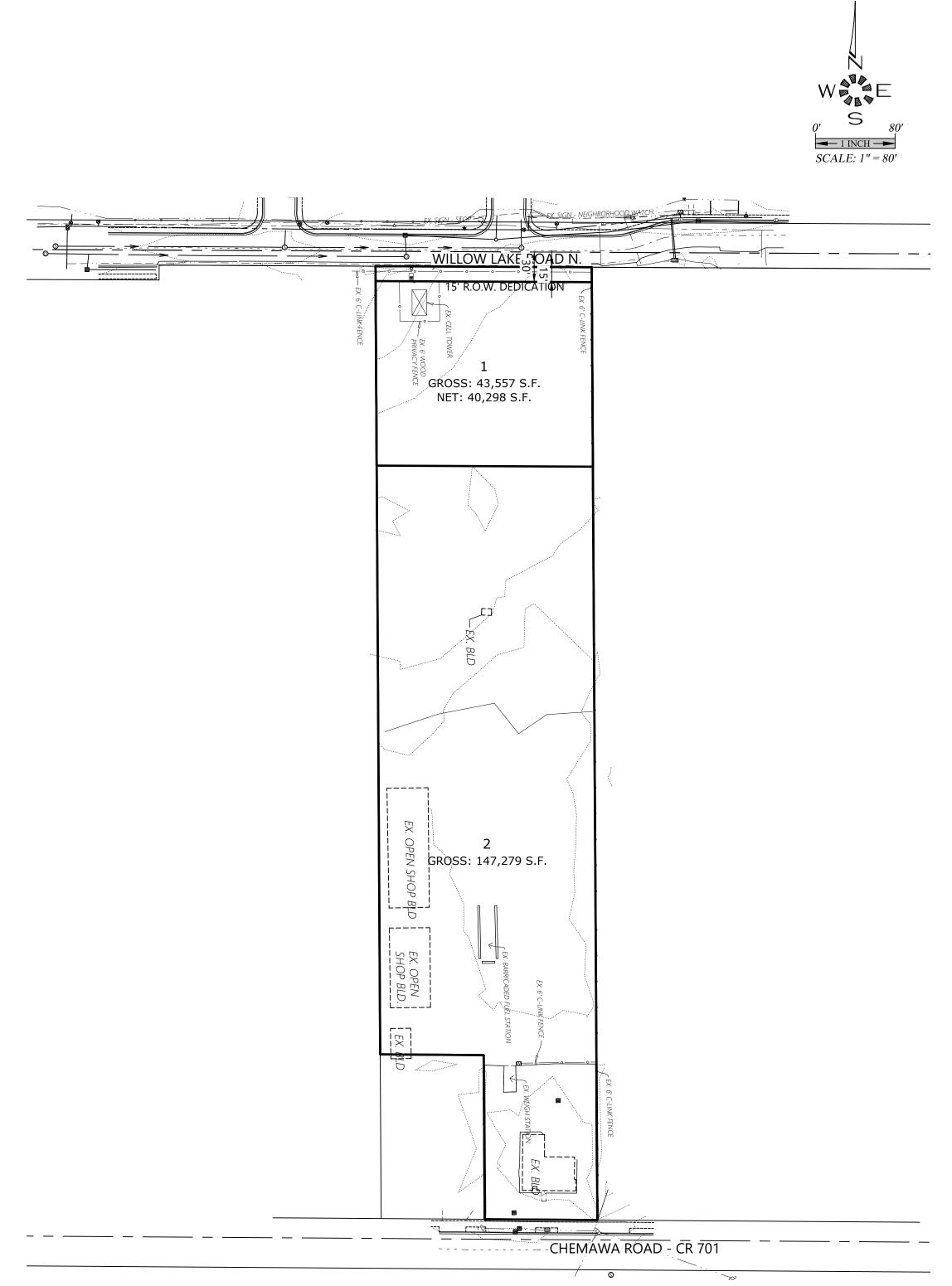
SEC. 3, T. 7 S., R. 3 W., & SEC. 34, T. 6 S., R. 3 W., W.M.
CITY OF KEIZER
MARION COUNTY, OREGON

Owner / Developer:

BACKUS INVESTMENTS LLC
2415 PERKINS STREET

2415 PERKINS STREET KEIZER, OREGON 97303







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EMAWA PARTITION

MADE TO THESE DRAWINGS
WITHOUT WRITTEN
AUTHORIZATION FROM THE
DESIGN ENGINEER.
IMENSIONS & NOTES TAKE
PRECEDENCE OVER

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EXPIRES:

JOB # 7511 **1 OF 2** 

CITY/STATE:	Keizer, C															DATE: Ap	or 4 2023
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
12:00 AM	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2	26-35	2
12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1-10	0
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1-10	0
12:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1-10	0
01:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1-10	0
01:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1-10	0
01:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1-10	0
01:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1-10	0
02:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1-10	0
02:15 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	21-30	1
02:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1-10	0
02:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	11-20	1
03:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	21-30	1
03:15 AM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	26-35	1
03:30 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	16-25	1
03:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1-10	0
04:00 AM	0	0	0	1	2	0	0	0	0	0	0	0	0	0	3	26-35	3
04:15 AM	0	0	1	2	0	0	0	0	0	0	0	0	0	0	3	21-30	3
04:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	31-40	1
04:45 AM	0	1	1	1	1	0	0	0	0	0	0	0	0	0	4	16-25	2
05:00 AM	0	0	1	1	1	0	0	0	0	0	0	0	0	0	3	21-30	2
05:00 AM	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3	16-25	3
05:30 AM	0	1	1	3	1	1	1	0	0	0	0	0	0	0	8	23-32	4
05:45 AM	0	0	1	5	4	0	0	0	0	0	0	0	0	0	10	26-35	9
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QC JOB #: 16120101 LOCATION: Willow Lake Rd N btwn Todd Ct N and Bobbie Ct N **SPECIFIC LOCATION: DIRECTION: EB, WB** CITY/STATE: Keizer, OR **DATE:** Apr 4 2023 Number **Start Time** Total Pace Speed in Pace 06:00 AM 26-35 21-30 06:15 AM 06:30 AM 21-30 06:45 AM 21-30 07:00 AM 21-30 07:15 AM 21-30 07:30 AM 21-30 07:45 AM 21-30 08:00 AM O 21-30 08:15 AM 21-30 08:30 AM 21-30 08:45 AM 21-30 09:00 AM 21-30 09:15 AM 21-30 09:30 AM 21-30 09:45 AM 21-30 10:00 AM 16-25 10:15 AM 21-30 10:30 AM 21-30 10:45 AM 21-30 11:00 AM 21-30 11:15 AM 26-35 11:30 AM 21-30 11:45 AM 21-30 **Day Total** Percent **AM Peak** 15-min Vol PM Peak 15-min Vol Comments:

LOCATION: Willow Lake Rd N btwn Todd Ct N and Bobbie Ct N QC JOB #: 16120101 **SPECIFIC LOCATION: DIRECTION: EB, WB** CITY/STATE: Keizer, OR **DATE:** Apr 4 2023 Number **Start Time** Total Pace Speed in Pace 12:00 PM 21-30 12:15 PM 21-30 21-30 12:30 PM 12:45 PM 21-30 01:00 PM 21-30 01:15 PM 21-30 01:30 PM 21-30 01:45 PM 21-30 02:00 PM O 21-30 02:15 PM 21-30 02:30 PM 21-30 02:45 PM 21-30 03:00 PM 21-30 03:15 PM 21-30 03:30 PM 21-30 03:45 PM 21-30 04:00 PM 21-30 04:15 PM 26-35 04:30 PM 21-30 04:45 PM 26-35 05:00 PM 21-30 05:15 PM 21-30 05:30 PM 21-30 05:45 PM 26-35 **Day Total** Percent **AM Peak** 15-min Vol PM Peak 15-min Vol Comments:

 LOCATION: Willow Lake Rd N btwn Todd Ct N and Bobbie Ct N
 QC JOB #: 16120101

 SPECIFIC LOCATION:
 DIRECTION: EB, WB

 CITY/STATE: Keizer, OR
 DATE: Apr 4 2023

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06:15 PM	0	0	2	12	10	0	0	0	0	0	0	0	0	0	24	26-35	22
06:30 PM	0	1	5	12	4	1	0	0	0	0	0	0	0	0	23	21-30	17
06:45 PM	1	0	8	8	0	0	0	0	0	0	0	0	0	0	17	21-30	16
07:00 PM	1	2	3	9	3	0	0	0	0	0	0	0	0	0	18	21-30	12
07:15 PM	0	1	5	7	2	0	0	0	0	0	0	0	0	0	15	21-30	12
07:30 PM	0	0	7	2	0	0	0	0	0	0	0	0	0	0	9	21-30	9
07:45 PM	0	0	4	5	1	0	0	0	0	0	0	0	0	0	10	21-30	9
08:00 PM	0	0	3	8	2	0	0	0	0	0	0	0	0	0	13	21-30	11
08:15 PM	0	1	0	5	0	0	0	0	0	0	0	0	0	0	6	21-30	5
08:30 PM	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4	16-25	4
08:45 PM	0	0	5	5	2	0	0	0	0	0	0	0	0	0	12	21-30	10
09:00 PM	0	1	2	0	1	0	0	0	0	0	0	0	0	0	4	16-25	3
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09:30 PM	0	2	2	1	3	0	0	0	0	0	0	0	0	0	8	26-35	4
09:45 PM	0	0	2	2	1	0	0	0	0	0	0	0	0	0	5	21-30	4
10:00 PM	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3	16-25	2
10:15 PM	0	0	0	4	1	0	0	0	0	0	0	0	0	0	5	26-35	5
10:30 PM	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5	21-30	5
10:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	16-25	1
11:00 PM	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3	16-25	2
11:15 PM	0	1	0	3	0	0	0	0	0	0	0	0	0	0	4	21-30	3
11:30 PM	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	16-25	2
11:45 PM	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2	26-35	2
Day Total Percent	20 1.5%	117 8.9%	427 32.4%	517 39.2%	207 15.7%	28 2.1%	2 0.2%	0 0%	1 0.1%	0 0%	0 0%	0 0%	0 0%	0 0%	1319	21-30	944
AM Peak 15-min Vol	7:30 AM 2	8:45 AM 5	8:15 AM 20	7:00 AM 12	7:45 AM 6	6:30 AM 2	5:30 AM 1	12:00 AM 0	8:15 AM 34								
PM Peak 15-min Vol	1:30 PM 2	6:00 PM 7	2:15 PM 15	2:30 PM 18	6:15 PM 10	12:15 PM 2	1:00 PM 1	12:00 PM 0	9:15 PM 1	12:00 PM 0	5:00 PM 42						

Report generated on 4/7/2023 12:21 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)

LOCATION: WI		e Rd N btv	wn Todd (	Ct N and E	Bobbie Ct	N											#: 16120101 I <b>ON</b> : EB, WB
CITY/STATE: K	eizer, OR															DATE	: Apr 4 2023
Speed Range	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
Grand Total Percent	20 1.5%	117 8.9%	427 32.4%	517 39.2%	207 15.7%	28 2.1%	2 0.2%	0 0%	1 0.1%	0 0%	0 0%	0 0%	0 0%	0 0%	1319	21-30	944
Cumulative Percent	1.5%	10.4%	42.8%	82%	97.6%	99.8%	99.9%	99.9%	100%	100%	100%	100%	100%	100%			
ADT 1319															Me	an Speed(Avera Med	ntile: 30 MPH age): 25 MPH dian: 25 MPH ode: 28 MPH
Comments:																	

Report generated on 4/7/2023 12:21 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)



SPECIFIC LOCATION: CITY/STATE: Keizer OR QC JOB #: 16120101 DIRECTION: EB, WB

CITY/STATE: Ke	eizer, OR														Apr 4 2023
Start Time	Bikes	Cars &	2 Axle	Buses	2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Total
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12:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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02:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
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03:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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04:30 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
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05:15 AM	0	2	0	0	1	0	0	0	0	0	0	0	0	0	3
05:30 AM	0	4	3	0	0	0	0	1	0	0	0	0	0	0	8
05:45 AM	0	3	4	0	3	0	0	0	0	0	0	0	0	0	10
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ADT 1319															
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PM Peak 15-min Vol															
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QC JOB #: 16120101 DIRECTION: EB, WB

CITY/STATE: Ke	eizer, OR														Apr 4 2023
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
06:00 AM	0	5	3	0	5	2	0	0	0	0	0	0	0	0	15
06:15 AM	0	9	8	0	2	0	0	2	0	0	0	0	0	1	22
06:30 AM	0	9	3	1	5	0	0	0	0	0	0	0	0	0	18
06:45 AM	0	7	1	1	2	0	0	1	0	0	0	0	1	0	13
07:00 AM	0	10	2	0	3	1	0	1	0	1	0	0	0	0	18
07:15 AM	0	9	0	1	3	1	0	0	0	0	0	0	0	0	14
07:30 AM	0	15	5	0	2	1	1	0	0	1	0	0	0	2	27
07:45 AM	0	23	8	1	1	0	0	0	0	0	0	0	0	0	33
08:00 AM	0	13	4	1	3	1	1	1	0	2	0	0	0	0	26
08:15 AM	0	14	12	1	5	0	1	0	0	1	0	0	0	0	34
08:30 AM	0	10	5	0	4	1	0	0	0	1	0	0	0	0	21
08:45 AM	0	9	7	1	2	1	0	0	0	0	0	0	0	0	20
09:00 AM	0	8	2	1	1	1	0	0	0	1	0	0	0	0	14
09:15 AM	0	11	8	3	1	1	1	0	0	1	0	0	0	0	26
09:30 AM	0	3	3	0	1	1	1	1	0	0	0	0	1	0	11
09:45 AM	0	11	2	0	1	2	1	0	0	0	0	0	0	0	17
10:00 AM	0	10	3	0	0	1	0	1	0	0	0	0	0	0	15
10:15 AM	0	11	3	0	2	3	1	0	0	1	0	0	0	0	21
10:30 AM	0	11	5	1	3	0	1	0	0	1	0	0	0	0	22
10:45 AM	0	9	4	1	3	2	1	0	0	1	0	0	0	0	21
11:00 AM	0	7	6	0	2 2	1 2	0	0	0	0	0	0	0	0	16
11:15 AM	0	9	4	1	2	2	0	0	0	0	0	0	0	0	18
11:30 AM	0	8	1	0	2	0	2	0	0	0	0	0	0	0	13
11:45 AM	0	12	0	0	1	1	1	0	0	0	0	0	0	0	15
Day Total							PS 13 7								
Percent				DAIZ	ALHA	$\Delta I D$	RIVE	5 ( (	MM	UMI	11-5				
ADT 1319															
AM Peak 15-min Vol															
PM Peak 15-min Vol															
omments:															
	1 - 4 /7 /202	22 42 24 014		·	· · · · · · · · · · · · · · · · · · ·		·			·	COLLBOT	1:4	/	//	4 4

SPECIFIC LOCATION: CITY/STATE: Keizer OR QC JOB #: 16120101 DIRECTION: EB, WB

CITY/STATE: Ke	eizer, OR													DATE:	Apr 4 2023
Start Time	Bikes	Cars &	2 Axle	Buses	2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Total
Start Time	bikes	Trailers	Long	buses	Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
12:00 PM	0	8	5	1	1	1	0	0	0	2	0	0	0	0	18
12:15 PM	0	11	4	0	5	3	0	0	0	0	0	0	0	1	24
12:30 PM	0	10	6	1	3	0	0	0	0	0	0	0	0	0	20
12:45 PM	0	7	3	0	6	1	1	0	0	0	0	0	0	0	18
01:00 PM	0	12	1	0	3	1	1	1	0	1	0	0	0	1	21
01:15 PM	0	7	12	1	3	3	0	0	0	0	0	0	0	0	26
01:30 PM	0	17	4	0	0	2	0	1	0	1	0	0	0	2	27
01:45 PM	0	12	4	0	3	3	0	0	0	0	0	0	0	0	22
02:00 PM	0	10	2	0	1	0	2	0	0	0	0	0	1	0	16
02:15 PM	0	13	10	0	5	3	0	2	0	0	0	0	0	0	33
02:30 PM	0	15	6	1	2	2	2	2	0	0	0	0	0	0	30
02:45 PM	0	9	6	0	2	2	0	0	0	0	0	0	0	0	19
03:00 PM	0	12	5	0	2	0	1	0	0	0	0	0	0	0	20
03:15 PM	0	17	3	0	4	0	0	0	0	0	0	0	0	0	24
03:30 PM	0	17	4	0	2	0	0	0	0	0	0	0	0	0	23
03:45 PM	0	20	2	0	1	0	0	0	0	0	0	0	0	0	23
04:00 PM	0	18	4	0	1	0	1	0	0	0	0	0	0	1	25
04:15 PM	0	10	6	0	3	1	0	0	0	0	0	0	0	0	20
04:30 PM	0	15	5	1	1	0	0	1	0	0	0	0	0	0	23
04:45 PM	0	20	3	0	1	0	0	1	0	0	0	0	0	0	25
05:00 PM	0	31	8	0	3	0	0	0	0	0	0	0	0	0	42
05:15 PM	0	17	5	0	8	0	0	0	0	0	0	0	0	0	30
05:30 PM	0	15	4	0	3	0	0	0	0	0	0	0	0	0	22
05:45 PM	0	16	9	0	2	0	0	0	0	0	0	0	0	0	27
Day Total															
Percent				DAIA	1 HH		RIVE	566	IVIVI	UNIT	11-5				
ADT															
1319															
AM Dools															
AM Peak 15-min Vol															
PM Peak															
15-min Vol															
Comments:															
Poport gonorator	lan 1/7/202	22 12.21 DN/									COLIDCE: O	iality Caunt	a IIC/b++n	//www.auali	tycounts not

SPECIFIC LOCATION: CITY/STATE: Keizer, OR QC JOB #: 16120101 DIRECTION: EB, WB

**DATE:** Apr 4 2023

CITY/STATE: K	eizer, UK														Apr 4 202.
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
06:00 PM	1	19	5	0	2	0	0	0	0	0	0	0	0	0	27
06:15 PM	0	12	6	0	6	0	0	0	0	0	0	0	0	0	24
06:30 PM	0	18	4	0	1	0	0	0	0	0	0	0	0	0	23
06:45 PM	0	15	2	0	0	0	0	0	0	0	0	0	0	0	17
07:00 PM	0	15	2	0	1	0	0	0	0	0	0	0	0	0	18
07:15 PM	0	11	4	0	0	0	0	0	0	0	0	0	0	0	15
07:30 PM	0	8	1	0	0	0	0	0	0	0	0	0	0	0	9
07:45 PM	0	9	0	0	1	0	0	0	0	0	0	0	0	0	10
08:00 PM	0	11	0	0	2	0	0	0	0	0	0	0	0	0	13
08:15 PM	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
08:30 PM	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
08:45 PM	0	10	2	0	0	0	0	0	0	0	0	0	0	0	12
09:00 PM	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
09:15 PM	0	7	1	0	1	0	0	0	0	0	0	0	0	0	9
09:30 PM	0	7	0	0	1	0	0	0	0	0	0	0	0	0	8
09:45 PM	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
10:00 PM	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
10:15 PM	0	4	0	0	1	0	0	0	0	0	0	0	0	0	5
10:30 PM	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
10:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
11:00 PM	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
11:15 PM	0	2	1	0	1	0	0	0	0	0	0	0	0	0	4
11:30 PM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
11:45 PM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Day Total	1	790	259	19	143	45	20	16	0	15	0	0	3	8	1319
Percent	0.1%	59.9%	19.6%	1.4%	10.8%	3.4%	1.5%	1.2%	0%	1.1%	0%	0%	0.2%	0.6%	1313
ADT 1319															
AM Peak	12:00 AM	7:45 AM	8:15 AM	9:15 AM	6:00 AM	10:15 AM	11:30 AM	6:15 AM	12:00 AM	8:00 AM	12:00 AM	12:00 AM	6:45 AM	7:30 AM	8:15 AN
15-min Vol	0	23	12	3	5	3	2	2	0	2	0	0	1	2	34
PM Peak 15-min Vol	6:00 PM 1	5:00 PM 31	1:15 PM 12	12:00 PM 1	5:15 PM 8	12:15 PM 3	2:00 PM 2	2:15 PM 2	12:00 PM 0	12:00 PM 2	12:00 PM 0	12:00 PM 0	2:00 PM 1	1:30 PM 2	5:00 PN 42
	1	31	12	1	0	3	2	2	U		U	U	1	2	42
mments:															

LOCATION: Will SPECIFIC LOCAT CITY/STATE: Ke	ION:	l N btwn To	dd Ct N and	Bobbie Ct	N									DIRECTI	#: 16120101 ON: EB, WB : Apr 4 2023
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
Grand Total Percent	1 0.1%	790 59.9%	259 19.6%	19 1.4%	143 10.8%	45 3.4%	20 1.5%	16 1.2%	0 0%	15 1.1%	0 0%	0 0%	3 0.2%	8 0.6%	1319
ADT 1319															

Report generated on 4/7/2023 12:21 PM

Comments:

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)



SPECIFIC LOCATION: CITY/STATE: Keizer, OR QC JOB #: 16120101 DIRECTION: EB, WB

DATE: Apr 4 2023 - Apr 4 2023

Start Time	Mon	<b>Tue</b> 4 Apr 23	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
12:00 AM		2				2			2	
12:15 AM		0				0			0	
12:30 AM		0				0			0	
12:45 AM		0				0			0	
01:00 AM		0				0			0	
01:15 AM		0				0			0	
01:30 AM		0				0			0	
01:45 AM		0				0			0	
02:00 AM		0				0			0	
02:15 AM		1				1			1	
02:30 AM		0				0			0	
02:45 AM		1			VIII.	1			1	
03:00 AM		1				1			1	
03:15 AM		1				1			1	
03:30 AM		1				1			1	
03:45 AM		0				0			0	
04:00 AM		3				3			3	
04:15 AM		3			. I °.	3			3	
04:30 AM		1			21111	1			1	
04:45 AM		4			461	4		$A \sqcup \Box$	4	
05:00 AM		3				3			3	
05:15 AM		3			LIATI	3 8	00/00/	H INTE	3	
05:30 AM		8			DALL		DIVIIV	UNII	8	
05:45 AM		10				10			10	
Day Total										
% Weekday										
Average										
% Week										
Average										
AM Peak										
15-min Vol										
PM Peak										
15-min Vol Comments:										

CITY/STATE: Keizer, OR

LOCATION: Willow Lake Rd N btwn Todd Ct N and Bobbie Ct N QC JOB #: 16120101 SPECIFIC LOCATION: **DIRECTION:** EB, WB **DATE**: Apr 4 2023 - Apr 4 2023

Start Time	Mon	Tue 4 Apr 23	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
06:00 AM		15				15			15	
06:15 AM		22				22			22	
06:30 AM		18				18			18	
06:45 AM		13				13			13	
07:00 AM		18				18			18	
07:15 AM		14				14			14	
07:30 AM		27				27			27	
07:45 AM		33				33			33	
08:00 AM		26				26			26	
08:15 AM		34				34			34	
08:30 AM		21				21			21	
08:45 AM		20				20			20	
09:00 AM		14				14			14	
09:15 AM		26				26			26	
09:30 AM		11				11			11	
09:45 AM		17				17			17	
10:00 AM		15				15			15	
10:15 AM		21				21			21	
10:30 AM		22				22			22	
10:45 AM		21				21			21	
11:00 AM		16				16			16	
11:15 AM		18				18	00.000		18	
11:30 AM		13				13	DIVIIVI		13	
11:45 AM		15				15			15	
Day Total										
% Weekday										
Average										
% Week										
Average										
AM Peak										
15-min Vol										
PM Peak										
15-min Vol										
Comments:										

SPECIFIC LOCATION:

CITY/STATE: Keizer, OR

QC JOB #: 16120101 DIRECTION: EB, WB

**DATE**: Apr 4 2023 - Apr 4 2023

Start Time	Mon	<b>Tue</b> 4 Apr 23	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
12:00 PM		18				18			18	
12:15 PM		24				24			24	
12:30 PM		20				20			20	
12:45 PM		18				18			18	
01:00 PM		21				21			21	
01:15 PM		26				26			26	
01:30 PM		27				27			27	
01:45 PM		22				22			22	
02:00 PM		16				16			16	
02:15 PM		33				33			33	
02:30 PM		30				30			30	
02:45 PM		19				19			19	
03:00 PM		20				20			20	
03:15 PM		24				24			24	
03:30 PM		23				23			23	
03:45 PM		23				23			23	
04:00 PM		25				25			25	
04:15 PM		20				20			20	
04:30 PM		23				23		ın.	23	
04:45 PM		25				25		411	25	
05:00 PM		42				42			42	
05:15 PM		30				30	00 40 4	1.18.117	30	
05:30 PM		22				22	JIVIIVI	UNII	22	
05:45 PM		27				27			27	
Day Total										
% Weekday										
Average										
% Week										
Average										
AM Peak										
15-min Vol										
PM Peak										
15-min Vol										
Comments:										

SPECIFIC LOCATION:

CITY/STATE: Keizer, OR

QC JOB #: 16120101 DIRECTION: EB, WB

**DATE**: Apr 4 2023 - Apr 4 2023

Start Time	Mon	Tue 4 Apr 23	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
06:00 PM		27				27			27	
06:15 PM		24				24			24	
06:30 PM		23				23			23	
06:45 PM		17				17			17	
07:00 PM		18				18			18	
07:15 PM		15				15			15	
07:30 PM		9				9			9	
07:45 PM		10				10			10	
08:00 PM		13				13			13	
08:15 PM		6				6			6	
08:30 PM		4				4			4	
08:45 PM		12				12			12	
09:00 PM		4				4			4	
09:15 PM		9				9			9	
09:30 PM		8				8			8	
09:45 PM		5				5			5	
10:00 PM		3				3			3	
10:15 PM		5				5			5	
10:30 PM		5				5			5	
10:45 PM		1				1 V 1	$\sim$ $\sim$ $\sim$		1	
11:00 PM		3				3			3	
11:15 PM		4				4			4	
11:30 PM		2				2	DMM	UNIT	2	
11:45 PM		2				2			2	
Day Total		1319				1319			1319	
% Weekday Average		100%								
% Week Average		100%				100%				
AM Peak		8:15 AM				8:15 AM			8:15 AM	
15-min Vol		34				34			34	
PM Peak		5:00 PM				5:00 PM			5:00 PM	
15-min Vol		42				42			42	

TRANSPORTATION DATA SECTION - CRASH ANAYLYSIS AND REPORTING UNIT

URBAN NON-SYSTEM CRASH LISTING

CITY OF KEIZER, MARION COUNTY WILLOW LAKE RD and Intersectional Crashes at WILLOW LAKE RD, City of Keizer, Marion County, 01/01/2017 to 12/31/2021

> 1 - 1 of 1 Crash records shown.

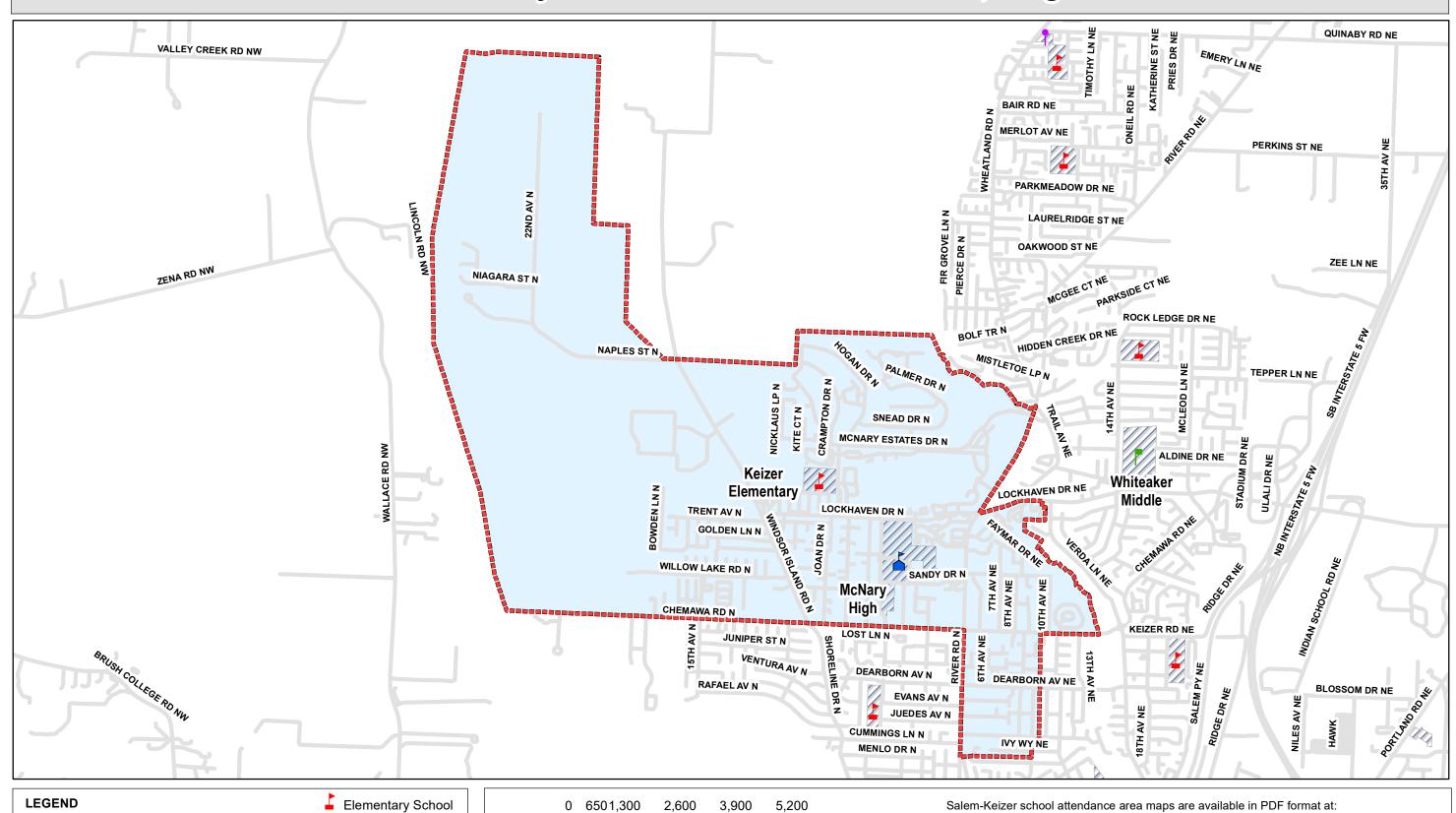
	S D M																		
SER#	P R J S W DATE	CLASS	CITY STREET		INT-TYPE					SPCL USE									
INVEST	E A U I C O DAY	DIST	FIRST STREET	RD CHAR	(MEDIAN)	INT-REL	OFFRD	WTHR	CRASH	TRLR QTY	MOVE			A i	S				
RD DPT	E L G N H R TIME	FROM	SECOND STREET	DIRECT	LEGS	TRAF-	RNDBT	SURF	COLL	OWNER	FROM	PRTC	INJ	G I	E LICNS	PED			
UNLOC?	D C S V L K LAT	LONG	LRS	LOCTN	(#LANES)	CONTL	DRVWY	LIGHT	SVRTY	V# TYPE	TO	P# TYPE	SVRTY	E	X RES	LOC	ERROR	ACT EVENT	CAUSE
02727	N N N N N N 09/08/2020	19	WILLOW LAKE RD N	STRGHT		N	N	FOG	PRKD MV	01 NONE 0	STRGHT								25
CITY	TU	54	LACEY ST N	E	(NONE)	UNKNOWN	N	DRY	SS-O	PRVTE	W -E							000	25
N	10A			07			N	DAY	INJ	PSNGR CAR		01 DRVR	INJB	82 F	OR-Y		026,017	000	00
N	44 59 59.5	-123 2 45.91			(02)										OR<25				
		10.71								02 NONE 0	PRKD-P								
										PRVTE	W -E							008	00
										PSNGR CAR									

TRANSPORTATION DATA SECTION - CRASH ANAYLYSIS AND REPORTING UNIT

URBAN NON-SYSTEM CRASH LISTING

CITY OF KEIZER, MARION COUNTY WILLOW LAKE RD and Intersectional Crashes at WILLOW LAKE RD, City of Keizer, Marion County, 01/01/2017 to 12/31/2021

# Salem-Keizer Public Schools Keizer Elementary School Attendance Area - Keizer, Oregon



Facilities and Planning Dept., 3630 State Street, Salem OR 97301

503-399-3335

Map Date: 8/4/2022

https://www.salkeiz.k12.or.us/school-boundary-maps

https://www.salkeiz.k12.or.us/?op=Find+Your+School

Tools to determine the school-of-assignment based on a students home address are here:

https://www.salkeiz.k12.or.us/elinkrp/Students/BasicTransBoundarySearch.aspx

Keizer Elementary Boundary Line

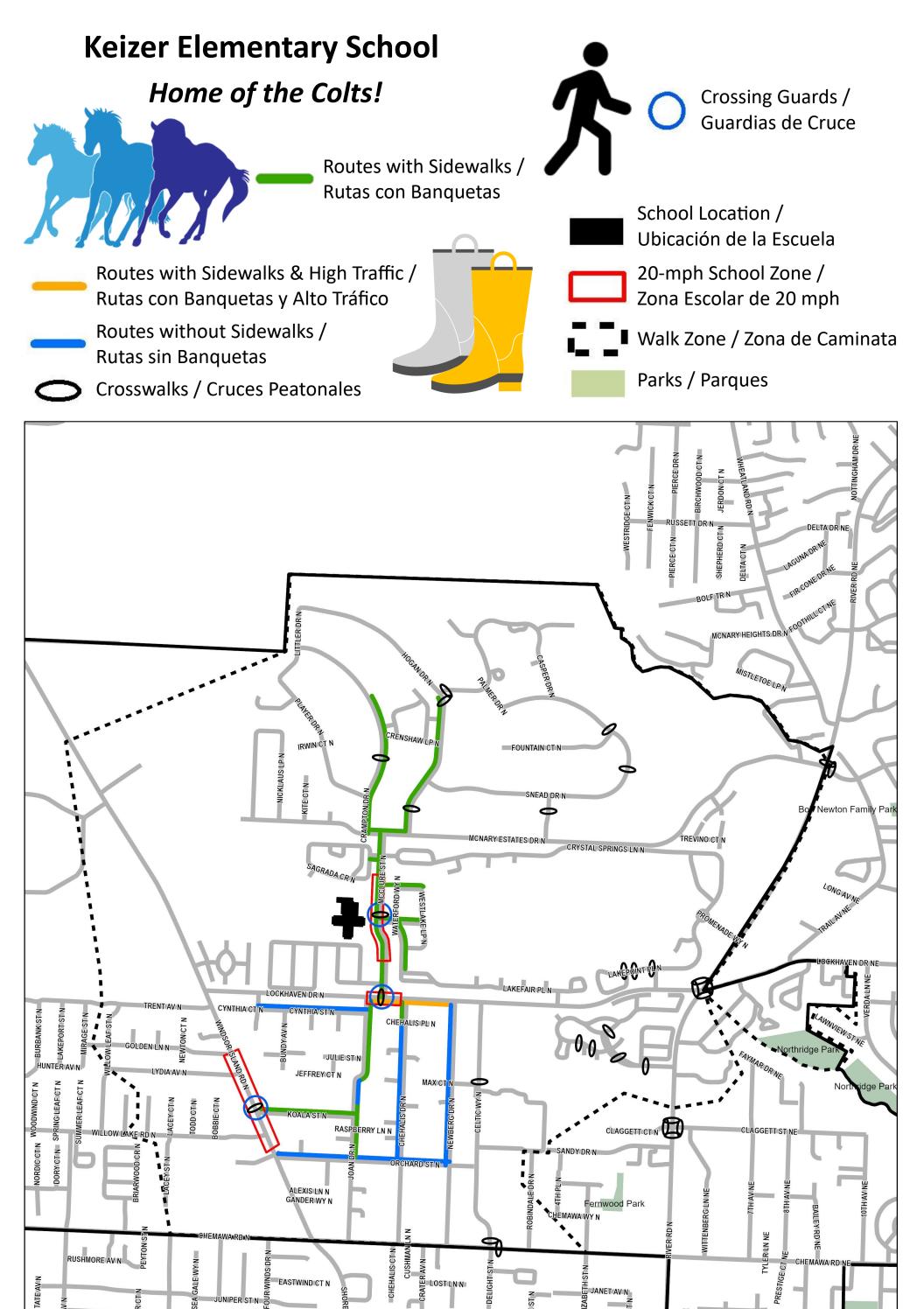
Streets

School District Site

Middle School

High School

Other School



SUMMER BREEZE DR N

VENTURA AV N

MONEDA AV N

RIVERWOOD DR N

Chalmers Jones Park & Carls

DEARBORN AV NE

JAMES ST NE

CHURCHDALE AV N

DEARBORN AV N