City of Coos Bay Front Street Blueprint MEMORANDUM 3

September 2021 Revision

Prepared For:
ODOT

Prepared By:
David Evans and Associates, Inc. 2100 SW River Parkway Portland, OR 97201


## Table of Contents

Introduction ..... 1
Study Area ..... 1
Vehicles and Freight ..... 2
Study Intersections ..... 2
Base Year (2020) Conditions ..... 3
Peak Hour Selection ..... 3
Adjustment Factors ..... 3
Base Year Volumes ..... 3
Adopted Performance Standards ..... 5
Base Year Intersection Operations ..... 6
Future Year (2042) Conditions ..... 7
Planned Projects and Improvements ..... 7
Future Year Volumes ..... 7
Future Year Intersection Operations ..... 9
Safety Analysis ..... 10
Crash History ..... 12
Network Screening ..... 12
Safety Priority Index System (SPIS) ..... 13
Pedestrian Conditions ..... 14
Facility Inventory ..... 14
Pedestrian Level of Traffic Stress ..... 16
Bicycle Conditions ..... 18
Transit Conditions ..... 18
Parking Conditions ..... 19
List of Figures
Figure 1. Study Area ..... 1
Figure 2: Existing (2020) PM Peak Hour Volumes ..... 4
Figure 3: Future (2042) No-Build PM Peak Hour Volumes ..... 8
Figure 4. Study Area Crashes ..... 11
Figure 5. Sidewalk, Crosswalk, Curb Ramp Inventory ..... 15
Figure 6. Pedestrian Level of Traffic Stress (PLTS) ..... 17
Figure 7. On-Street Parking Inventory ..... 20
List of Tables
Table 1. Study Intersections ..... 2
Table 2. Applicable Performance Measures ..... 5
Table 3. Summary of Existing (2020) Operations ..... 6
Table 4. Summary of Future Year 2042 PM Peak Hour Operations ..... 9
Table 5: Crash History at Study Area Intersections ..... 10
Table 6. On-Street Parking Summary. ..... 19

## Appendices

Appendix A - Existing Traffic Counts
Appendix B - Volume Development Worksheets
Appendix C - Synchro Worksheets: Existing Conditions
Appendix D-Crash Analysis Worksheets
Appendix E - Synchro Worksheets: Future Conditions
Appendix F - Coos Bay Village Center Traffic Impact Analysis

## Introduction

David Evans and Associates, Inc. ("Consultant") have been retained to conduct the City of Coos Bay Front Street Blueprint project. This memorandum, Draft Memo \#3, has been prepared to summarize the existing and future transportation conditions of the project study area. The assessment was conducted in accordance with the Methodology Memo (Revised) dated April 9, 2021.

## Study Area

The Front Street Project study area is an industrial and commercial area within the City of Coos Bay, bound on the west by US 101 and on the east by an active channel on the bay. The northern boundary is in line with Ivy Avenue and the southern boundary is Market Avenue. The street network within the project study area includes the length of N Front Street from Market Avenue to Hemlock Avenue. The Front Street Project study area is shown in Figure 1.


Figure 1. Study Area

## Vehicles and Freight

## Study Intersections

As indicated in the Methodology Memo, 12 intersections were included in the study. Table 1 below summarizes the locations of the study intersections as well as the count date, count duration, and whether the counts included pedestrian, bicycle, and heavy vehicle counts. Intersection count sheets are provided in Appendix A.

Table 1. Study Intersections

| ID | Count Location | Duration | Date | Ped | Bike | Trucks |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{1}$ | Koos Bay Blvd \& US 101 | 16 hr | Tue 7/11/17 | Y | Y | Y |
| $\mathbf{2}$ | Ivy Ave \& US 101 | 6 hr | Tue 4/10/18 | Y |  |  |
| $\mathbf{3}$ | Hemlock/Front \& US 101 | 16 hr | Tue 4/10/18 | Y |  |  |
| $\mathbf{4}$ | Fir St \& US 101 NB | 6 hr | Wed 4/11/18 | Y |  |  |
| $\mathbf{5}$ | Fir St \& US 101 SB | 6 hr | Wed 4/11/18 | Y |  |  |
| $\mathbf{6}$ | Fir St (south) \& US 101 NB | 6 hr | Wed 4/11/18 | Y |  |  |
| $\mathbf{7}$ | Front St \& Fir St (south) | 6 hr | Wed 4/11/18 | Y |  |  |
| $\mathbf{8}$ | Market Ave \& US 101 NB | 6 hr | Tue 4/10/18 | Y |  |  |
| $\mathbf{9}$ | US 101 \& Cedar Avenue | 4 hr | Tue 3/10/20 | Y | Y | Y |
| $\mathbf{1 0}$ | Front Street \& Alder Ave | 4 hr | Tue 3/10/20 | Y | Y | Y |
| $\mathbf{1 1}$ | Front Street \& Cedar Ave | 4 hr | Tue 3/10/20 | Y | Y | Y |
| $\mathbf{1 2}$ | US 101 NB \& Alder Ave | 4 hr | Tue 3/10/20 | Y | Y | Y |

## Base Year (2020) Conditions

## Peak Hour Selection

The intersection turning movement counts were first reviewed to determine a single common system peak hour. Traffic counts were reviewed and compared in 15-minute intervals to determine the common peak study hour. Subsequent turning movements, peak hour factors, vehicle classification, and future volumes describing demand in the study area were derived for this peak hour for all study intersections. Based on the traffic counts, the common peak hour occurred from 4:30 PM to 5:30 PM.

## Adjustment Factors

Annual growth factors and seasonal adjustment factors were developed based on the Methodology Memo. As stated in the Methodology Memo, the annual growth factor was determined to be 1.0\%. The seasonal adjustment factors were calculated based an average of the Commuter and the Coastal Destination methods and interpolated to the count dates based on the latest ODOT Seasonal Trend Table (updated 10/14/20). Based on the calculations, the seasonal trend factors to count dates of 3/10, $4 / 10,4 / 11$, and $7 / 11$ were $1.26,1.16,1.16$, and 1.03 respectively.

## Base Year Volumes

The annual growth factor was applied to the existing counts for the appropriate number of years based on the count year from year 2020. Next, the seasonal trend factors were applied according to the count dates. Finally, the volumes were balanced between intersections and rounded to the nearest five.

The final 2020 base year intersection turning movement volumes are illustrated in Figure 2. The detailed volume development spreadsheet is provided in Appendix B.


Figure 2: Existing (2020) PM Peak Hour Volumes

## Adopted Performance Standards

US 101 is a state facility and all other streets in the study area are City of Coos Bay streets. Nine of the 12 study intersections are along US 101 with a city cross street. The other three study intersections consist of two intersecting city streets.

For intersections along US 101, the Oregon Highway Plan (OHP) and the Highway Design Manual (HDM) will be used in the assessment of intersection operations. Both documents base their mobility performance on the calculation of volume-to-capacity ratios ( $\mathrm{v} / \mathrm{c}$ ). The mobility targets from the OHP will be applied to the existing and future baseline analysis summarized in this memorandum. The standards from the HDM will be applied in the event of any proposed design alternatives in subsequent memorandums. The City of Coos Bay Municipal Code states "City streets shall maintain a LOS of "D" during the p.m. peak hour of the day."

At signalized intersections, the critical intersection v/c was calculated according to ODOT APM methodologies and compared against the performance standards. At unsignalized intersections, the results were reported for movements that must stop or yield the right of travel to other traffic flows on major and minor roads and compared against the performance standards.

The adopted performance measures are summarized in Table 2.
Table 2. Applicable Performance Measures

| State Highways |  | Volume-to-Capacity Ratio |  |
| :---: | :---: | :---: | :---: |
|  |  | OHP ${ }^{1}$ | HDM ${ }^{2}$ |
| US 101 <br> (Freight Route on a Statewide Highway) | Non-MPO, Outside STAs, $\leq 35 \mathrm{mph}$ | 0.85 | 0.70 |
|  | Non-MPO, $\geq 45 \mathrm{mph}$ | 0.80 | 0.70 |
| Local Interest Roads | Non-MPO, Outside STAs, $\leq 35 \mathrm{mph}$ | 0.95 | 0.80 |
|  | Non-MPO, Outside STAs, $\geq 45 \mathrm{mph}$ | 0.90 | 0.75 |
| City Streets |  | Level of Service ${ }^{3}$ |  |
| City of Coos Bay |  | LOS D |  |

## Notes:

1. Table 6: Volume to Capacity Ratio Targets Outside Metro, Oregon Highway Plan, 1999.
2. Table 10-2: 20 Year Design-Mobility Standards (Volume-to-Capacity Ratio), Highway Design Manual, 2012
3. Coos Bay Municipal Code, Section 18.15.005.

## Base Year Intersection Operations

Intersection operating conditions were evaluated using Synchro software based on methodologies in the Highway Capacity Manual (HCM) $6^{\text {th }}$ Edition along with the procedures outlined in ODOT's Analysis Procedures Manual (APM). In the base study year of 2020, there is one signalized intersection and 11 stop-controlled intersections.

Based on the analysis, all study intersections and minor movements at Stop-controlled intersections are determined to meet the performance standards in the base year of 2020. Intersection analysis are summarized in Table 3. Analysis output worksheets are provided in Appendix C.

Table 3. Summary of Existing (2020) Operations

| No. | Intersection | Control | Critical Movement | v/c <br> Ratio | LOS | Mobility Target |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 |  <br> Koos Bay Blvd | Signal | Overall Intersection | 0.69 | - | 0.80 |
| 2 | US 101 \& Ivy Ave | Two-Way Stop | Major Leg - Northbound Left Minor Leg - Eastbound | $\begin{aligned} & 0.01 \\ & 0.13 \end{aligned}$ |  | $\begin{aligned} & 0.80 \\ & 0.95 \end{aligned}$ |
| 3 | US 101 \& Hemlock Ave | Two-Way Stop | Major Leg - Northbound Left <br> Minor Leg - Eastbound | $\begin{aligned} & 0.04 \\ & 0.43 \end{aligned}$ |  | $\begin{aligned} & 0.80 \\ & 0.95 \end{aligned}$ |
| 4 | US 101 NB \& Fir St | Two-Way Stop | Major Leg - Northbound Thru-Left Minor Leg - Eastbound | $\begin{aligned} & 0.35 \\ & 0.00 \end{aligned}$ |  | $\begin{aligned} & 0.85 \\ & 0.95 \end{aligned}$ |
| 5 | $\begin{aligned} & \text { US } 101 \text { SB \& } \\ & \text { Fir St } \end{aligned}$ | Two-Way Stop | Major Leg - Southbound Thru-Left <br> Minor Leg - Westbound | $\begin{aligned} & 0.38 \\ & 0.06 \end{aligned}$ |  | $\begin{aligned} & 0.85 \\ & 0.95 \end{aligned}$ |
| 6 |  <br> Fir St (south) | Two-Way Stop | Major Leg - Northbound Thru-Right <br> Minor Leg - Westbound Right | $\begin{aligned} & 0.36 \\ & 0.01 \end{aligned}$ |  | $\begin{aligned} & 0.85 \\ & 0.95 \end{aligned}$ |
| 7 | Fir St (south) \& Front St | Two-Way Stop | Major Leg - Northbound Thru-Left Minor Leg - Eastbound Left-Right |  | $\begin{aligned} & \text { A } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{D} \end{aligned}$ |
| 8 |  <br> Market Ave | Two-Way Stop | Major Leg - Northbound Thru-Left <br> Minor Leg - Eastbound Left | $\begin{aligned} & 0.35 \\ & 0.21 \end{aligned}$ |  | $\begin{aligned} & 0.85 \\ & 0.95 \end{aligned}$ |
| 9 | US 101 NB \& Cedar Ave/ driveway | Two-Way Stop | Major Leg - Northbound Thru-Right <br> Minor Leg - Eastbound Left | $\begin{aligned} & 0.36 \\ & 0.02 \end{aligned}$ |  | $\begin{aligned} & 0.85 \\ & 0.95 \end{aligned}$ |
| 10 |  <br> Alder Ave | Two-Way Stop | Major Leg - Northbound Left <br> Minor Leg - Eastbound Left |  | $\begin{aligned} & \mathrm{A} \\ & \mathrm{~A} \end{aligned}$ | $\begin{aligned} & D \\ & D \end{aligned}$ |
| 11 | Front St \& Cedar Ave | Two-Way Stop | Major Leg - Northbound Left <br> Minor Leg - Eastbound Left |  | $\begin{aligned} & \mathrm{A} \\ & \mathrm{~A} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{D} \end{aligned}$ |
| 12 | US 101 NB \& Alder Ave | Two-Way Stop | Major Leg - Northbound Thru-Left <br> Minor Leg - Westbound | $\begin{aligned} & 0.35 \\ & 0.13 \end{aligned}$ |  | $\begin{aligned} & 0.85 \\ & 0.95 \end{aligned}$ |

## Future Year (2042) Conditions

Future year, also known as no-build, conditions were evaluated for the year 2042. The assessment of future year traffic conditions included development of future traffic volumes and analysis of the 12 study intersections.

## Planned Projects and Improvements

A new traffic signal is included in the future year analysis at the intersection of US 101 \& Hemlock Avenue. This new traffic signal is expected to be operational sometime in 2021. As part of this new signal, a new pedestrian crosswalk is planned across US 101 on the north leg and one across Hemlock Avenue on the west leg.

The proposed Coos Bay Village Center east of US 101 between Ivy Avenue and Fir Street along the waterfront includes office, retail and mixed commercial uses. The main access point to this site is proposed at the eastern leg of the US 101 \& Hemlock Avenue intersection, the location of the planned new traffic signal mentioned above. Project trips associated with the new Coos Bay Village Center development were accounted for in the future traffic volume development described below. The traffic impact study for Coos Bay Village Center in provided in Appendix F.

Other future development along Front Street will be required to conduct traffic impact analyses to determine additional transportation-related improvements that may be necessary.

## Future Year Volumes

In order to calculate the future year volumes, the 1.0\% annual growth factor previously described and used in developing the base year volumes was applied to the base year 2020 volumes for a total of 22 years to the future year 2042, resulting in a $22 \%$ growth rate. This factor was applied to the previously calculated, seasonally adjusted base year 2020 volumes. Next, the newly calculated 2042 volumes were balanced between intersections and rounded to the nearest five.

The previously described Coos Bay Village Center development site-generated traffic were then added to the 2042 intersection volumes according to the Coos Bay Village Center traffic impact study provided in Appendix F. For those intersections that were not included in the Coos Bay Village Center traffic study, site generated traffic was added to the study intersections by balancing and interpolating between those intersections that were included in the traffic study. The final 2020 base year intersection turning movement volumes are illustrated in Figure 3. The detailed volume development spreadsheet is provided in Appendix $B$.


Figure 3: Future (2042) No-Build PM Peak Hour Volumes

## Future Year Intersection Operations

Intersection operating conditions were evaluated using Synchro software based on methodologies in the Highway Capacity Manual (HCM) $6^{\text {th }}$ Edition along with the procedures outlined in ODOT's Analysis Procedures Manual (APM). Future year PM peak hour traffic operations were evaluated for the same intersections and peak hours as in the existing conditions. The intersection of US 101 \& Hemlock Avenue was analyzed as a signalized intersection in anticipation of the upcoming new traffic signal.

Based on the analysis, the US 101 \& Koos Bay Boulevard intersection is projected to operate at a critical intersection $\mathrm{v} / \mathrm{c}$ ratio of 0.83 in the PM peak hour, while the ODOT standard for US 101 at this location has a mobility target of 0.80 . US 101 is a State Freight Route with a speed limit of 45 mph in the vicinity of this intersection. All other study intersections and minor movements at Stop-controlled intersections were determined to meet the performance standards during the PM peak hour in the future year of 2042. Intersection analysis results are summarized in Table 3. Future year analysis output worksheets are provided in Appendix E.

Table 4. Summary of Future Year 2042 PM Peak Hour Operations

| No | Intersection | Control | Critical Movement | v/c <br> Ratio | LOS | Mobility Target |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | US 101 \& Koos Bay Blvd | Signal | Overall Intersection | 0.83 | - | 0.80 |
| 2 | US 101 \& Ivy Ave | Two-Way Stop | Major Leg - Northbound Left Minor Leg - Eastbound | $\begin{aligned} & 0.02 \\ & 0.07 \end{aligned}$ |  | $\begin{aligned} & 0.80 \\ & 0.95 \end{aligned}$ |
| 3 | US 101 \& Hemlock Ave | Signal | Overall Intersection | 0.75 | - | 0.80 |
| 4 | US 101 NB \& Fir St | Two-Way Stop | Major Leg - Northbound Thru-Left <br> Minor Leg - Eastbound | $\begin{aligned} & 0.44 \\ & 0.00 \end{aligned}$ |  | $\begin{aligned} & 0.85 \\ & 0.95 \end{aligned}$ |
| 5 | $\begin{aligned} & \text { US } 101 \text { SB \& } \\ & \text { Fir St } \end{aligned}$ | Two-Way Stop | Major Leg - Southbound Thru-Left <br> Minor Leg - Westbound | $\begin{aligned} & 0.48 \\ & 0.07 \end{aligned}$ |  | $\begin{aligned} & 0.85 \\ & 0.95 \end{aligned}$ |
| 6 |  <br> Fir St (south) | Two-Way Stop | Major Leg - Northbound Thru-Right <br> Minor Leg - Westbound Right | $\begin{aligned} & 0.44 \\ & 0.05 \end{aligned}$ |  | $\begin{aligned} & 0.85 \\ & 0.95 \end{aligned}$ |
| 7 | Fir St (south) \& Front St | Two-Way Stop | Major Leg - Northbound Thru-Left Minor Leg - Eastbound Left-Right | - | $\begin{aligned} & \text { A } \\ & \text { B } \end{aligned}$ | $\begin{aligned} & D \\ & D \end{aligned}$ |
| 8 | US 101 NB \& Market Ave | Two-Way Stop | Major Leg - Northbound Thru-Left <br> Minor Leg - Eastbound | $\begin{aligned} & 0.43 \\ & 0.69 \end{aligned}$ |  | $\begin{aligned} & 0.85 \\ & 0.95 \end{aligned}$ |
| 9 | US 101 NB \& Cedar Ave/ driveway | Two-Way Stop | Major Leg - Northbound Thru-Right <br> Minor Leg - Eastbound | $\begin{aligned} & 0.45 \\ & 0.02 \end{aligned}$ |  | $\begin{aligned} & 0.85 \\ & 0.95 \end{aligned}$ |
| 10 |  <br> Alder Ave | Two-Way Stop | Major Leg - Northbound Left Minor Leg - Eastbound Left | - | $\begin{aligned} & \mathrm{A} \\ & \mathrm{~A} \end{aligned}$ | $\begin{aligned} & D \\ & D \end{aligned}$ |
| 11 | Front St \& Cedar Ave | Two-Way Stop | Major Leg - Northbound Left Minor Leg - Eastbound |  | $\begin{aligned} & \mathrm{A} \\ & \mathrm{~A} \end{aligned}$ | $\begin{aligned} & D \\ & D \end{aligned}$ |
| 12 | US 101 NB \& Alder Ave | Two-Way Stop | Major Leg - Northbound Thru-Left <br> Minor Leg - Westbound | $\begin{aligned} & 0.44 \\ & 0.21 \end{aligned}$ |  | $\begin{aligned} & 0.85 \\ & 0.95 \end{aligned}$ |

## Safety Analysis

This section discusses the safety analysis performed at study area intersections. The study intersection crash data is summarized in Table 5 and shown in Figure 4. The analysis is based on the most recent and available five years of crash data from ODOT's Data and Reporting Unit (January 1, 2014 through December 31, 2018). The analysis reviewed the following:

- Total crashes, severity and collision type
- Network screening through comparison of study intersection crash rates to $90^{\text {th }}$ percentile crash rates, critical crash rates, and excess proportions
- Top 10\% Safety Priority Index System (SPIS) sites

Table 5: Crash History at Study Area Intersections

| Intersection |  |  | Severity |  |  | Crash Type |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | $\begin{aligned} & \frac{0}{100} \\ & \frac{1}{4} \end{aligned}$ |  |  |  |  |  | $\begin{aligned} & 0 \\ & 0.0 \\ & 0.0 \\ & \hline 0 \end{aligned}$ | ¢ |  |  |  |
| 1. Koos Bay Blvd at US 101 | U3SG | 9 |  | 5 | 0 | 2 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0.509 | - | 0.20 |
| 2. Ivy Ave at US 101 | U3ST | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.293 | 0.14 | 0.02 |
| 3. Hemlock Ave at US 101 | U4ST | 6 | 3 | 3 | 0 | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0.408 | - | 0.13 |
| 4. Fir St at US 101 NB | U3ST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.293 | 0.19 | 0.00 |
| 5. Fir St at US 101 SB | U3ST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.293 | 0.18 | 0.00 |
| 6. Fir St (south) at US 101 NB | U3ST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.293 | 0.19 | 0.00 |
| 7. Front St at Fir St (south) | U4ST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.408 | - | 0.00 |
| 8. Market Ave at US 101 NB | U3ST | 3 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0.293 | 0.18 | 0.14 |
| 9. US 101 NB at Cedar Ave | U3ST | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.293 | 0.19 | 0.05 |
| 10. Front St at Alder Ave | U4ST | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.408 | - | 0.00 |
| 11. Front St at Cedar Ave | U4ST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.408 | - | 0.00 |
| 12. US 101 NB at Alder Ave | U3ST | 7 | 3 | 4 | 0 | 1 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0.293 | 0.19 | 0.35 |
|  | Totals | 27 |  | 16 | 0 | 8 | 2 | 3 | 0 | 13 | 0 | 0 | 0 | 1 | 0 |  |  |  |

Source: ODOT Crash Analysis and Reporting Unit 2014-2018
Acronyms: $\mathrm{R}=$ Rural; U = Urban; 3 = 3-leg intersection; 4 = 4-leg intersection; ST = STOP-controlled; SG = Signalized
Notes:

1. Highway Safety Manual Part B methodology was used to calculate critical crash rates for the study intersections with sufficient reference populations (i.e. at least five intersections with a similar configuration). Where the observed rate exceeds the critical crash rate, the observed rate is bold and shaded.
2. Where the observed rate exceeds the Statewide $90^{\text {th }}$ Percentile Crash Rate, the observed rate is italic and underlined


Figure 4. Study Area Crashes

## Crash History

A review of the available data at the study intersections identified 27 total crashes. The 27 crashes occurred at six of the 12 study intersections, with no documented crashes on Front Street. Of these, 59\% percent were injury crashes, while the rest were property damage only (PDO). There were no fatalities in the analysis period at study area intersections. Most of the study intersection crashes were turningrelated (52\%), followed by rear-end collisions (30\%). The intersection of Market Avenue at US 101 North had a documented turning collision which included a crash with a bicycle.

A review of the crash history for the entire study area (including crashes attributed to roadway segments, driveways and alleyways) documented 39 total crashes between 2014 and 2018. This includes the 27 crashes documented at the study area intersections. There was a documented crash with a pedestrian on US 101 near Ivy Avenue. This crash was not attributed to the intersection, but rather along US 101 when a driver became distracted due to an animal or insect in their vehicle. This distraction caused the driver to hit a pedestrian, which resulted in a suspected serious injury.

## Network Screening

Highway Safety Manual Part B
The Highway Safety Manual Part B describes the critical crash rate method as a means of identifying locations that warrant further investigation. The critical crash rate is based upon average crash rates at comparable sites, traffic volume, and a confidence interval. Critical crash rates were calculated for three-legged STOP-controlled intersections according to the HSM Part B Network Screening Critical Crash Rate method. As part of this method, each reference population, made up of locations with similar geometric and operational characteristics, must contain at least five sites for comparison. Within the study area, three-legged unsignalized intersections are the only reference population with sufficient size to utilize the network screening method.

Based on critical crash rates determined by the HSM Part B Network Screening methodology, the intersection of US 101 Northbound at Alder Avenue is found to exceed both the critical crash rate and the $90^{\text {th }}$ percentile crash rate for its reference population, suggesting further review. This intersection is STOP-controlled on the side street and had seven total crashes during the analysis period that included three turning, three angle and one fixed object collision. Most of the crashes were due to drivers failing to yield the right of way.

## Excess Proportion of Specific Crash Types

An Excess Proportion of Specific Crash Types analysis was also performed, but it did not yield any significant results. According to Chapter 4 of ODOT's Analysis Procedures Manual, this analysis may be of limited usefulness for small study areas with low crash frequencies. For the method to be statistically valid, there need to be at least five sites in each reference population, with a minimum of two of those sites having two or more crashes of the target crash type. This is not the case in the project study area.

Although the Excess Proportion of Specific Crash Type analysis was not applicable for the study area, the crash data clearly indicates turning movement collisions are the most prevalent and improvements aimed at curbing turning-related collision types would have the most impact in the study area.

Safety Priority Index System (SPIS)
The SPIS is a method used in Oregon to identify safety problem areas along state highways. Highways are evaluated in approximately one-tenth mile increments (often grouped into larger segments). Each year these segments are ranked by assigning a SPIS score based on the frequency and severity crashes observed, while taking traffic volume into account. When a segment is ranked in the top $10 \%$ of the index, a crash analysis is typically warranted, and corrective actions are considered.

There are no segments within the study area that are identified in the top $10 \%$ of the most recent (2019) SPIS rankings.

## Pedestrian Conditions

## Facility Inventory

There are existing curb-tight sidewalks on both sides of Front Street south of the intersection with Birch Avenue. North of Birch Avenue, sidewalks are mostly missing on both sides until the Coos History Museum which has complete sidewalk along its frontage on the east side of Front Street. On the cross streets-Cedar Avenue, Birch Avenue, and Alder Avenue—that intersect Front Street, there is generally complete sidewalk on one side. Conditions of the existing sidewalks vary; there are some areas with brand new sidewalk and others with older sidewalks and locations where sidewalks are impeded by fixed objects such as utility poles.

Along the east side of US 101 adjacent to the study area, sidewalk exists from Market Avenue to just south of Fir Street next to the Marshfield Sun Printing Museum. From that location north, there is no sidewalk on the east side of US 101; the Coos Bay TSP identifies this segment of US 101 as "ODOT Sidewalk Need" in the Pedestrian Action Plan.

There are currently no marked crosswalks within the study area. Legal crossing locations exist at each intersection. A new traffic signal is planned at the intersection of US 101 \& Hemlock Avenue. This new traffic signal is expected to be operational sometime in 2021. As part of this new signal, a new, marked pedestrian crosswalk is planned across US 101 on the northern leg and one across Hemlock Avenue on the western leg; the southern leg across US 101 will be closed to pedestrian crossing as part of this new signal.

According to ODOT data, there are ADA curb ramps near the intersections of US 101 with most of the cross streets-Alder, Birch, Cedar, Date, Fir, and Front St/Hemlock Ave—in the study area; although these ADA ramps are identified as in "Poor" condition. Based on a visual inspection of online street mapping program, there are two ADA curb ramps at the intersection of Front Street at Market Avenue.

The current sidewalk, crosswalk, and curb ramp inventory is illustrated in Figure 5.


Figure 5. Sidewalk, Crosswalk, Curb Ramp Inventory

## Pedestrian Level of Traffic Stress

The Pedestrian Level of Traffic Stress (PLTS) was evaluated for the study area according to the ODOT Analysis Procedures Manual (APM). The assessment considers factors such as presence of sidewalks and their conditions, presence of buffer, number of adjacent traffic lanes and posted speed, illumination, and general land use. There are four levels of PLTS with PLTS 1 being the lowest stress level and PLTS 4 the highest. Generally speaking, PLTS 2 is considered a reasonable minimum target for pedestrian routes, while PLTS 1 is most desired for areas near schools with high number of children and youths.

Based on the APM methodologies for PLTS, the following pedestrian stress levels were identified for facilities within the study area:

- Front Street: While there is low speed limit and low traffic volume, due to the light industrial nature of surrounding land use, Front Street has a PLTS score of 3 where there are sidewalks and PLTS 4 where there are no sidewalks. The segment adjacent to the Coos History Museum with continuous sidewalk, the score is PLTS 2.
- Side streets (Date, Cedar, Birch, Alder): Similar to assessment along Front Street, due to the light industrial nature of surrounding land use, the side streets that intersect with Front Street within the study area generally have PLTS 3 where there are sidewalks and PLTS 4 where there are no sidewalks.
- US 101 from Market Street to Fir Street: This segment of US 101 has a PLTS 3. While there are continuous and wide sidewalks on the east side; the adjacent two travel lanes on US 101 northbound with speed limit of 30 mph and the adjacent light industrial land use yield a PLTS of 3 .
- US 101 north of Fir Street: This segment of US 101 has PLTS 4 due to the lack of sidewalk on the east side and the two travel lanes at 45 mph speed limit on US 101.

The PLTS score for the study area is illustrated in Figure 6.


Figure 6. Pedestrian Level of Traffic Stress (PLTS)

## Bicycle Conditions

There are no dedicated bicycle facilities in the project study area. The current bicycling network in the study area is on-street, shared lanes with motor vehicles. As such, the condition and surface type of bike facilities is equivalent to pavement conditions for the streets on which they exist.

Bicycle Level of Traffic Stress (BLTS) was evaluated for the study area according to the ODOT Analysis Procedures Manual (APM). The assessment considers factors such as presence and types of bike lanes, number of adjacent traffic lanes and posted speed, illumination, and general land use. Similar to the PLTS, there are four levels of BLTS with BLTS 1 being the lowest stress level and BLTS 4 the highest. A BLTS 2 is often used as a reasonable target to appeal to the potential bike-riding population. A BLTS 1 is most desired for areas near schools with high number of children and parents of younger children.

Based on the APM methodologies for BLTS, the following BLTS scores were identified for facilities within the study area:

- Front Street: While bicycles are expected to travel in mixed traffic along Front Street, this road has a BLTS 1 based on the prevailing travel speed of 25 mph on a two-lane road with an unmarked center line and low traffic volumes.
- $\quad$ Side streets (Date Ave, Cedar Ave, Birch Ave, Alder Ave): Similar to the assessment along Front Street, based on the prevailing travel speed of 25 mph and low traffic volumes, side streets within the study area that intersect with Front Street have BLTS 1.
- US 101 from Market Street to Fir Street: This segment of US 101 has BLTS 4 due to the lack of dedicated bike lanes, and the adjacent two-lane arterial with 30 mph posted speed and greater than 8,000 ADT traffic volume.
- US 101 north of Fir Street: This segment of US 101 has BLTS 4 due to the lack of dedicated bike lanes, and the adjacent arterial with 45 mph posted speed.

The Coos Bay TSP identifies US 101 adjacent to the study area as having "Future Type II (Striped)" bicycle facilities in the Bicycle Route Plan.

## Transit Conditions

Within the study area, based on ODOT TransGIS data, Coos County Area Transit (CCAT) operates a "Weekend Express" route that connects downtown Coos Bay and downtown North Bend via the length of Front Street with one stop just north of Market Avenue and one stop at the Coos History Museum. At the time of writing, this service is suspended due to the Coronavirus pandemic.

The CCAT Myrtle Point Connector travels US 101 adjacent to the study area connecting Coquille, Myrtle Point, and Powers in the south to Lakeside and Hauser to the north.

Curry Public Transit offers a connecting service, Coastal Express, from Coos Bay to the communities of Bandon, Port Orford, Gold Beach, Brookings, Harbor and Smith River. The Coastal Express operates Monday through Saturday and provides service three times daily in the morning, mid-day, and early afternoon.

## Parking Conditions

On-street parking is available along Front Street on both sides with a few exceptions near business driveways and loading areas. Similarly, on-street parking is available along the side streets - Date Avenue, Cedar Avenue, Birch Avenue, Alder Avenue-within the study area. There is no on-street parking along US 101 adjacent to the study area. The on-street parking in the study area is unmarked.

The City of Coos Bay's on-street parking inventory indicates that there is approximately 1,557 feet of onstreet parking along the east side of Front Street between Fir Avenue and Market Avenue, 880 feet on the west side of Front Street between Fir Avenue and Market Avenue, and 772 feet along the side streets of Date Avenue, Cedar Avenue, Birch Avenue, and Alder Avenue. The city's engineering design standards in Chapter 18.15.010 of the Coos Bay Municipal Code stated that the minimum length of an on-street parking stall shall be 20 feet. Based on this information and taking into account the location of breaks due to driveways and intersections, it is estimated that there are approximately 75 on-street parking stalls on the east side of Front Street between Fir Avenue and Market Avenue, 39 on the west side of Front Street between Fir Avenue and Market Avenue, and 34 along the side streets of Date Avenue, Cedar Avenue, Birch Avenue, and Alder Avenue for a total of 148 on-street parking stalls in the study area between Fir Avenue and Market Avenue. This estimate is based on a parking stall length of 20 feet as stated in the Coos Bay engineering design standards. Larger vehicles such as RVs or large trucks may reduce the amount of on-street parking availability.

The available on-street parking inventory and approximate curb length are summarized in Table 6 and illustrated in Figure 7.

Table 6. On-Street Parking Summary

| Location | Length of <br> Available On- <br> Street Parking | Approximate <br> Number of Stalls <br> (at 20' per stall) |
| :--- | :---: | :---: |
| Front Street east side curb <br> (between Fir Avenue and Market Avenue) | $\mathbf{1 , 5 5 7 \text { feet }}$ | 75 |
| Front Street west side curb <br> (between Fir Avenue and Market Avenue) | 880 feet | 39 |
| Side Streets (Date Avenue, Cedar Avenue, Birch <br> Avenue, Alder Avenue) | $\mathbf{7 7 2}$ feet | 34 |
| Total (Between Fir Avenue and Market Avenue) | $\mathbf{3 , 2 0 9}$ feet | $\mathbf{1 4 8}$ |

A new public parking lot is planned by the City of Coos Bay to be constructed in 2021/2022 on the west side of Front Street between Date Avenue and Cedar Avenue. This new parking lot is proposed to have 47 parking spaces with additional amenities such as bike racks, trash and recycling bins, wayfinding, and lighting. Vehicle access for this parking lot is planned on Date Avenue and Cedar Avenue. As part of this planned parking lot, continuous sidewalk will be constructed along Front Street between Date Avenue and Cedar Avenue. This new public parking lot may affect the amount of on-street parking along its frontage on Date Avenue, Cedar Avenue, and Front Street.


Figure 7. On-Street Parking Inventory

## APPENDIX A

## Existing Traffic Counts

## US 101 \& Koos Bay Blvd

## Transportation Development Division Transportation System Monitoring Unit Vehicular Volume

Time settings
Date: 7/11/2017
Hours: 6:00 AM-10:00 PM
Weather:

Source
Site Number: 37226
Mile Point: 237.38
Street Number: 009
Vehicle Type: Vehicles
Crossing Flow: Pedestrians

Source Description
Location Description: OREGON COAST HIGHWAY NO. 9 i N.Bayshore Dr. (US101) at Koos Bay Boulevard

County: Coos
City: Coos Bay



| Date: | 7/11/2017 | N.Bayshore Dr. (US101) at Koos Bay |
| :--- | :--- | :--- |
| Hours: | 6:00 AM-10:00 PM | Highway \#009 |


| Time of Day | Summary By Movements |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NBL | NBT | EBR | EBL | SBT | SBR | TOTAL |
| 7:30 | 30 | 164 | 19 | 1 | 178 | 2 | 394 |
| 7:45 | 59 | 195 | 17 | 3 | 193 | 7 | 474 |
| 8:00 | 29 | 135 | 18 | 3 | 156 | 2 | 343 |
| 8:15 | 30 | 171 | 15 | 3 | 142 | 5 | 366 |
|  | 148 | 665 | 69 | 10 | 669 | 16 | 1577 |


| Date: | 7/11/2017 | N.Bayshore Dr. (US101) at Koos Bay |
| :--- | :--- | :--- |
| Hours: | 6:00 AM-10:00 PM | Highway \#009 |


| Time of Day | Summary By Movements |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NBL | NBT | EBR | EBL | SBT | SBR | TOTAL |
| 16:30 | 20 | 228 | 28 | 2 | 261 | 11 | 550 |
| 16:45 | 20 | 233 | 34 | 5 | 270 | 6 | 568 |
| 17:00 | 27 | 269 | 41 | 4 | 294 | 12 | 647 |
| 17:15 | 19 | 251 | 50 | 5 | 272 | 4 | 601 |
|  | 86 | 981 | 153 | 16 | 1097 | 33 | 2366 |


| Summary of Traffic Count <br> Transportation Development Division |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Site: 37226County: Coos |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| County CoosCity Coos bay |  |  |  |  |  |  |  |  |  |  |
| Milepoint: 237.38 Loction: |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Time of Day | Summar By Movements |  |  |  |  |  |  | Entering Volumes |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  | SE.Sw | se-nw | sw.-SE | sw-nw | Nw.SE | Nw.sw | тotal | $\begin{gathered} \text { South- } \\ \text { East } \end{gathered}$ | South- | Nert |
| 6:00 | 12 | 51 |  |  | 72 |  | 141 | 63 |  |  |
| 6:15 | 18 | 70 | 4 |  | 68 |  | 16 | ${ }_{88}$ |  |  |
|  | 24 | 88 |  |  | 7 | 0 | 198 | 112 |  |  |
| $6: 30$ <br> $6: 45$ | 32 | 126 | 13 | 3 | ${ }_{91}$ |  | 265 | 158 | ${ }^{16}$ | ${ }_{91}$ |
| 6:45 ${ }^{\text {7:00 }}$ | 24 | 95 | 11 | 1 | 106 |  | 238 | 119 | 12 | 107 |
| 7 $\begin{array}{r}\text { 7:00 } \\ \hline 7: 15 \\ \hline\end{array}$ | ${ }^{26}$ | ${ }^{143}$ | 8 | 6 | 115 |  | 300 | 169 | 14 | 117 |
| 7:30 | 30 | 164 | 19 | 1 | 178 |  | 394 | 194 | 20 | 180 |
| $7: 4.4$ <br> $8: 00$ | 59 | 195 | ${ }^{17}$ |  | 193 |  | 474 | 254 | 20 | 200 |
|  | 29 | 135 | 18 | 3 | 156 | 2 | ${ }^{34}$ | 164 | 21 | ${ }^{158}$ |
| $\begin{array}{\|c\|} \hline 8.00 \\ \hline 8: 15 \\ \hline \end{array}$ | 30 | 171 | 15 |  | 142 |  | 366 | 201 | 18 | 14 |
|  | ${ }^{28}$ | 17 | 18 |  | 150 |  | 37 | 205 | ${ }_{2}$ | ${ }^{151}$ |
| 88:30 | 36 | 189 | 23 |  | 16 |  | 425 | 225 | 26 |  |
| $\begin{array}{\|c\|} \hline 8.45 \\ \hline 9.000 \end{array}$ | 26 | ${ }^{158}$ | 23 |  | 162 | 3 | 374 | ${ }^{184}$ | 25 | 165 |
| $\frac{9.00}{9: 15}$ | 32 | ${ }^{186}$ | 19 |  | 171 |  | ${ }^{419}$ | 218 | . |  |
| 9:15 | 27 | 164 | 16 | 2 | 180 |  | 391 | 191 | 18 | 182 |
| $\begin{aligned} & 9: 30 \\ & 9: 45 \\ & \hline \end{aligned}$ | 28 | 214 | 20 |  | 188 |  | 463 | 242 |  | 19 |
| $\frac{995}{90000}$ | 26 | 185 | 24 | 3 | 194 | 3 | ${ }^{435}$ | 21 | 27 | 19 |
| 10:15 | 26 | 201 | 35 |  | 212 | , | ${ }^{487}$ | 227 | , | ${ }^{221}$ |
| 10:135 10 | 27 | 234 | 19 | 5 | 202 | 4 | ${ }^{49}$ | ${ }^{261}$ | ${ }^{24}$ | ${ }^{206}$ |
|  | 26 | 230 | 34 |  | ${ }^{224}$ | , | 527 | 256 |  | ${ }^{23}$ |
| 10:45 | 24 | 227 | 25 | 11 | 206 | 4 | 497 | 251 | ${ }^{36}$ | 210 |
| ${ }_{11115}^{1130}$ | 29 | 208 | 24 | 10 | 24 | ${ }^{14}$ | 52 | 237 | 34 | $2{ }^{258}$ |
|  | 16 | 258 | ${ }^{37}$ | 8 | 254 | 7 | 580 | 274 | ${ }^{45}$ | 26 |
| $\frac{11: 33}{11: 45}$ | 15 | 260 | 35 | 10 | 243 | 5 | 568 | 275 | ${ }^{45}$ | ${ }^{248}$ |
|  | ${ }_{21}$ | 272 | 38 | 3 | 262 | 11 | 607 | 23 | ${ }_{41}$ | 273 |
| $12: 00$ $12: 15$ | 30 | 219 | 32 | 11 | 233 | ${ }^{13}$ | 538 | 249 | ${ }^{43}$ |  |
| 12.15 <br> $12: 30$ <br> 12.5 | 27 | 286 | 27 |  | 243 | 9 | 59 | 313 | ${ }^{31}$ | 25 |
| $12: 45$ | 28 | 248 | 26 | 6 | 262 |  | 57 | 276 | 32 | 26 |
| ${ }_{13}^{13: 00}$ | 23 | 251 | 32 |  | 234 |  | 555 | 274 | ${ }_{41}$ |  |
|  | ${ }^{34}$ | 248 | ${ }^{23}$ | 5 | ${ }^{286}$ |  | 63 | 282 | ${ }^{28}$ | 293 |
| $\xrightarrow{13: 15} 1$ | 27 | 246 | ${ }^{38}$ |  | 189 |  | 508 | 273 | ${ }^{43}$ |  |
| ${ }^{13,30} 13$ | 25 | 24 | 45 |  | 190 |  | ${ }_{517}$ | 272 | 49 | 196 |
| 14401415 | ${ }^{34}$ | 242 | ${ }^{38}$ |  | 225 |  | ${ }_{548}$ | 276 | 42 |  |
|  | 27 | 242 | 42 | 8 | 190 |  | 516 | 269 | 50 | 197 |
| 14.15 1430 | ${ }^{21}$ | ${ }^{241}$ | 51 | 10 | ${ }^{251}$ |  | 579 | 262 | ${ }_{61}$ | ${ }^{256}$ |
| $14: 30$ $14: 45$ | 31 | 242 | 32 | 5 | ${ }^{24}$ |  | 564 | 273 | 37 | 25 |
|  | 20 | 263 | 33 | 11 | 272 | 12 | 611 | 283 | 44 |  |
| 15:000 | 21 | 227 | 30 | 10 | ${ }^{227}$ |  | 520 | ${ }^{248}$ | 40 | 232 |
| $\frac{1530}{1595}$ | ${ }^{17}$ | 253 | 44 | 11 | ${ }^{230}$ | $\bigcirc$ | ${ }_{564}$ | 270 | ${ }^{55}$ |  |
|  | ${ }^{17}$ | 233 | ${ }^{42}$ | 3 | 265 | ${ }^{6}$ | ${ }_{566}$ | 250 | ${ }^{45}$ | ${ }^{27}$ |
| $\begin{array}{\|l\|l\|:\|c\|c\|} \hline 1600 \end{array}$ | ${ }^{18}$ | 208 | ${ }^{36}$ | 9 | 267 | 6 | ${ }_{54}^{54}$ | ${ }^{226}$ | ${ }^{45}$ | ${ }^{273}$ |
| $16: 15$ | 28 | 254 | 28 | 3 | 262 | 4 | 579 | 282 | ${ }^{31}$ | ${ }^{266}$ |
| $16: 30$ | 20 | 228 | 28 | 2 | 261 | 11 | 550 | 248 | 30 | 272 |
| 16:45 | 20 | 233 | 34 |  | 270 |  | 56 | 253 | 39 |  |
|  | 27 | 269 | ${ }^{41}$ | 4 | 294 | 12 | ${ }_{64}$ | 296 | 45 | ${ }^{306}$ |
|  | 19 | 251 | 50 |  | 272 |  | 60 | 270 | 55 |  |
| 17:15 1730 | 22 | 208 | ${ }^{38}$ | 8 | 223 |  | ${ }_{5} 5$ | 230 | 46 | 228 |
| 17745 | 16 | 180 | 26 |  | 217 |  | 448 | 196 | 34 |  |
|  | 21 | 203 | 25 |  | 188 |  | 449 | 224 | 30 | 195 |
|  | 13 | 160 | ${ }^{24}$ |  | ${ }^{191}$ |  | ${ }^{39}$ | 173 | 29 | 195 |
| $\begin{array}{r}18.15 \\ 1830 \\ \hline\end{array}$ | 15 | ${ }^{137}$ | 20 | 6 | ${ }^{150}$ |  | ${ }^{33}$ | 152 | ${ }^{26}$ | ${ }^{155}$ |
| $18: 45$1900 | 19 | 161 | 21 |  | 146 |  | ${ }^{356}$ | 180 | 23 | 153 |
|  | 9 | 110 | 18 | 3 | 143 |  | ${ }^{28}$ | 119 | 21 | ${ }^{147}$ |
| 19:00 19 19 | 5 | 108 | 22 |  | ${ }^{126}$ |  | ${ }^{264}$ | ${ }^{113}$ | 22 | ${ }^{129}$ |
| $19: 15$ <br> 1930 | 4 | 104 | 20 | 2 | 105 |  | ${ }^{23}$ | 108 | 22 | 10 |
| $\frac{19: 45}{20: 00}$ |  | 91 | ${ }^{13}$ |  | 105 |  | 217 | 96 | , | 10 |
|  | 9 | 102 | 7 | 3 | ${ }^{78}$ |  | 19 | ${ }^{111}$ | 10 | 78 |
| $\frac{20.00}{20.15}$ | 4 | ${ }^{83}$ | 12 |  | 104 |  | ${ }^{208}$ | ${ }_{6}^{87}$ | 16 | $\begin{array}{r}105 \\ 8 \\ \hline\end{array}$ |
| 20:30 |  | 64 | 6 | 2 | 80 |  | 16 | 69 |  | 83 |
| $20.45$ | 8 | 6 | 7 | 2 | ${ }_{71}$ |  | ${ }^{157}$ | 75 |  | 73 |
|  | 5 | 62 | 15 | 0 | 94 | 0 | ${ }^{176}$ | 67 | 15 | 94 |
| ${ }_{2}^{21: 00}$ | 4 | 51 | 14 |  | 64 |  | 138 | 55 | 16 |  |
| ${ }_{\text {21:30 }}^{21: 45}$ | 2 | 99 | 9 | 2 | 89 | 1 | 202 | 101 | 11 | 9 |
|  | 4 | 6 | 5 |  | 58 | 0 | ${ }^{131}$ | 65 |  |  |
|  | 1355 | 11583 | 1560 | 298 | 1166 | 304 | 26763 | 12938 | 1858 | 1196 |
| Total Count |  |  |  |  | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| $2{ }^{24 r \text { r volume }}$ | ${ }^{1991}$ | ${ }^{12742}$ | ${ }^{1716}$ | ${ }^{328}$ | ${ }^{12830}$ | 335 | 2940 | ${ }^{14232}$ | 2044 | ${ }^{13164}$ |


| Vehicular Volume <br> Transportation Development Division |  |  |
| :---: | :---: | :---: |
| Site: 37226 | Date: $7 / 11 / 2017$ |  |
| County: Coos | Hours: $6: 00$ AM-10:00 PM |  |
| City: Coos Bay | Highway \#: 009 |  |
| Milepoint: 237.38 | OREGON COAST HIGHWAY No. |  |
| Count Number: 1.00 | Location: $9 /$ N.Bayshore Dr. (US101) at |  |


| From North | 0 | From South | 0 |
| :---: | :---: | :---: | :---: |
| North to N | 0 | South to N | 0 |
| North to NE | 0 | South to NE | 0 |
| North to E | 0 | South to E | 0 |
| North to SE | 0 | South to SE | 0 |
| North to S | 0 | South to S | 0 |
| North to SW | 0 | South to SW | 0 |
| North to W | 0 | South to W | 0 |
| North to NW | 0 | South to NW | 0 |
| To North | 0 | To South | 0 |
| From NE | 0 | From SW | 1858 |
| NE to N | 0 | SW to N | 0 |
| NE to NE | 0 | SW to NE | 0 |
| NE to E | 0 | SW to E | 0 |
| NE to SE | 0 | SW to SE | 1560 |
| NE to S | 0 | SW to S | 0 |
| NE to SW | 0 | SW to SW | 0 |
| NE to W | 0 | SW to W | 0 |
| NE to NW | 0 | SW to NW | 298 |
| To NE | 0 | To SW | 1659 |
| From East | 0 | From West | 0 |
| East to N | 0 | West to N | 0 |
| East to NE | 0 | West to NE | 0 |
| East to E | 0 | West to E | 0 |
| East to SE | 0 | West to SE | 0 |
| East to S | 0 | West to S | 0 |
| East to SW | 0 | West to SW | 0 |
| East to W | 0 | West to W | 0 |
| East to NW | 0 | West to NW | 0 |
| To East | 0 | To West | 0 |
| From SE | 12938 | From NW | 11967 |
| SE to N | 0 | NW to N | 0 |
| SE to NE | 0 | NW to NE | 0 |
| SE to E | 0 | NW to E | 0 |
| SE to SE | 0 | NW to SE | 11663 |
| SE to S | 0 | NW to S | 0 |
| SE to SW | 1355 | NW to SW | 304 |
| SE to W | 0 | NW to W | 0 |
| SE to NW | 11583 | NW to NW | 0 |
| To SE | 13223 | To NW | 11881 |






| Traffic Count Summary Sheet <br> Transportation Development Division（SW－NW） |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Site： 37226County CosCity：Coos BayMilepont： 23.38nit Number： 1.00 |  |  |  |  |  |  |  |  |  |  | $7 / 11 / 20$ 6：00 AM 009 OREGON N．Baysh |  |  |  |  |  |
| $\begin{array}{\|c\|} \hline \text { Time of } \\ \text { Day } \end{array}$ | car | Lt Truck | Sgl．Unit Truck |  |  | Sgl．Traile Truck |  |  | Multi Traier Truck |  |  | Bus | Motor－cycle | $\begin{aligned} & \text { Ped } \\ & \text { With } \\ & \text { Bicycle } \end{aligned}$ |  | Vehicles | Bicyle |
|  |  |  | 2 Axl | 3 AxI | $4+$ Ax | 4－Ax | 5 Ax | 6＋Ax｜ | 5－Ax｜ | 6 AxI | 7＋Ax｜ |  |  |  |  |  |  |
| 6：00 |  |  |  |  | 0 | 0 | 。 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |
| $6: 15$ |  |  |  |  |  |  |  |  | 0 | 0 | 0 |  |  |  |  |  |  |
| $6: 30$ | 。 | － 2 |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  | 2 |  |
| 6：45 |  |  |  |  | 0 | 0 | 。 | 0 | 0 | 0 | 0 |  | ， |  |  | 3 |  |
| 7：00 |  |  |  |  | 0 |  |  | 0 | 0 | 0 | 0 |  | － |  |  | 1 |  |
| $7: 15$ |  | 15 |  |  | 0 | 0 |  |  | 0 | 0 | 0 |  |  |  |  |  |  |
| $7: 30$ |  |  |  |  | 0 |  |  | 0 | 0 | 0 | 0 |  |  |  |  |  |  |
| 7：45 |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |
| 8：00 |  |  |  |  | 0 | 0 | 0 |  | 0 | 0 | 0 |  |  |  |  |  |  |
| $8: 15$ |  |  |  |  | 0 | 0 | $\bigcirc$ | 0 | 0 | 0 | 0 |  |  |  |  | 3 |  |
| $8: 30$ |  |  |  |  | 0 | 0 | $\bigcirc$ | 0 | 0 | 0 | 0 |  |  |  |  | 3 |  |
| 8：45 |  |  |  |  | 0 |  |  | 0 | 0 | 0 | 0 |  |  |  |  | 3 |  |
| $9: 00$ | 0 |  |  |  | 0 | 0 | 。 | 0 | 0 | 0 | 0 |  |  |  |  | 2 |  |
| $9: 15$ |  |  |  |  | 0 | 0 |  | 0 | 0 |  | 0 |  |  |  |  |  |  |
| 9：30 | 0 | － 1 |  |  | 0 | 0 | － | 0 | 0 | 0 | 0 |  |  |  |  | 2 |  |
| $9: 45$ |  | 5 |  |  | 0 | 0 | 。 | 0 | 0 | 0 | 0 |  |  |  |  | 7 |  |
| 10：00 |  |  |  |  | 0 |  |  |  | 0 | 0 | 0 |  |  |  |  | 3 |  |
| 10：15 |  | － 4 |  |  | 0 | 0 |  |  | 0 | 0 | 0 |  |  |  |  | 4 |  |
| 10.30 | 3 | 3 |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | － |  |  | 5 |  |
| 10：45 | 0 | 4 |  |  | 0 | 0 | 。 | 0 | 0 | 0 | 0 |  | － |  |  | 4 |  |
| 11：00 | 4 | 6 |  |  | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |  |  | 11 |  |
| $11: 15$ |  | ${ }^{6}$ |  |  | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |  |  | 10 |  |
| 11：30 |  | 4 |  |  | 0 | 0 | － | 0 | 0 | 0 | 0 |  |  |  |  | 8 |  |
| 11：45 |  |  |  |  | 0 |  |  |  | 0 |  | 0 |  |  |  |  | 10 |  |
| 12：00 |  | 12 |  |  | 0 | 0 | 。 | 0 | 0 | 0 | 0 |  |  |  |  | 3 |  |
| 12：15 |  | 7 |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  | 11 |  |
| 12：30 |  | 1 |  |  | 0 | 0 |  | － | 0 | 0 | 0 |  |  |  |  |  |  |
| 12：45 | 2 | 2 |  |  | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  | 6 |  |
| 13：00 |  | 5 |  |  | 0 | 0 | 0 | 0 | 0 |  | 0 |  | － |  |  | 9 |  |
| 13：15 |  | 2 |  |  | 0 | 0 | 0 | 。 | 0 |  | 0 |  |  |  |  | 5 |  |
| 13：30 |  |  |  |  | 0 |  |  | 0 | 0 |  | 。 |  |  |  |  | 5 |  |
| 13：45 |  |  |  |  | 0 | 0 |  | 0 | 0 |  | 0 |  |  |  |  | 4 |  |
| 14：00 |  |  |  |  | 0 |  |  |  | 0 |  | 0 |  |  |  |  | 4 |  |
| $14: 15$ |  | 4 |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | － |  |  | 8 |  |
| 14：30 |  | 5 |  |  | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  | 10 |  |
| 14：45 |  | 2 |  |  | 0 | 0 | 0 | 0 | 0 |  | 0 |  | － |  |  | 5 |  |
| 15：00 | 2 |  |  |  | 0 | 0 | 0 | 0 | 0 |  | 0 |  |  |  |  | 11 |  |
| 15.15 |  |  |  |  | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  | 10 |  |
| 15：30 | ， | 46 |  |  | 0 | 0 | － | 0 | 0 | 0 | 0 |  |  |  |  | 11 |  |
| 15：45 |  |  |  |  | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  |  |  |
| 16：00 | 3 | ${ }^{4}$ |  |  | 0 | 0 |  | 0 | 0 |  | 0 |  |  |  |  | 9 |  |
| 16：15 |  | 1 |  |  | 0 |  | 0 | 0 | 0 |  | 0 |  | － |  |  | 3 |  |
| 16：30 |  | 2 |  |  | 0 | 0 | 0 | 0 | 0 |  | 0 |  |  |  |  | 2 |  |
| 16：45 |  | 5 |  |  | 0 |  |  | － | 0 |  | 0 |  |  |  |  | 5 |  |
| 17：00 |  | 2 |  |  | 0 |  | 0 | 0 | 0 |  | 0 |  |  |  |  | 4 |  |
| 17：15 | 2 | 3 |  |  | 0 | 0 | 。 | 0 | 0 |  | 0 |  |  |  |  | 5 |  |
| 17：30 |  |  |  |  | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  | 8 |  |
| 17：45 | 2 | ${ }^{2} 6$ |  |  | 0 | 0 | 0 | 0 | 0 |  | 0 |  |  |  |  | 8 |  |
| 18：00 |  |  |  |  | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  | 5 |  |
| 18：15 |  | － 3 |  |  | 0 |  | $\bigcirc$ | 0 | 0 |  |  |  |  |  |  | 5 |  |
| 18：30 |  | 3 |  |  | 0 | 0 |  | 0 | 0 |  | 0 |  | － |  |  | 6 |  |
| 18：45 |  | 1 |  |  | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  | 2 |  |
| 19：00 |  |  |  |  | 0 | 0 |  | 。 | 0 |  | － |  |  |  |  | 3 |  |
| 19：15 |  | $\bigcirc$ |  |  | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  |  |  |
| 19：30 |  |  |  |  | 0 |  | 0 | 0 | 0 |  | 0 |  |  |  |  | 2 |  |
| 19：45 |  |  |  |  | 0 |  |  | 0 | 0 |  | 。 |  |  |  |  | 1 |  |
| 20：00 |  | 12 |  |  | 0 | 0 | － | 0 | 0 |  | 0 |  |  |  |  | 3 |  |
| 20：15 |  |  |  |  | 0 |  |  | 0 | 0 |  | 0 |  | － |  |  | 4 |  |
| 20：30 |  | 2 |  |  | 0 | 0 |  | 0 | 0 |  | 0 |  |  |  |  | 2 |  |
| 20：45 |  |  |  |  | 0 |  |  | ， |  |  | 。 |  |  |  |  | 2 |  |
| 21：00 |  |  |  |  | 0 |  |  | 0 | 0 |  | 0 |  |  |  |  |  |  |
| 21.15 |  |  |  |  | 0 |  | 。 | 0 | 0 |  | 0 |  |  |  |  | 2 |  |
| $21: 30$ |  |  |  |  | 0 |  |  | 0 | 0 | 0 | 0 |  |  |  |  | 2 |  |
| $21: 45$ |  |  |  |  | 0 |  |  |  |  |  | 0 |  | － |  |  | 3 |  |
|  |  |  |  |  | 0 |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 100 | 172 |  |  | － |  |  |  |  |  | 0 |  |  |  |  | 298 |  |




| Summary Of Bicycle Count <br> Transportation Development Division |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stie： 37226County：Coos |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| County：CoosCity Coos bay |  |  |  |  |  |  |  |  |  |  |
| Milepoint： 237.388 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {Time of Day }}$ | Summar By Movements |  |  |  |  |  |  | Entering Volumes |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  | SE－sw | SE－Nw | sw．SE | sw－nw | nw．SE | Nw．sw | тotal | ${ }_{\substack{\text { South－} \\ \text { East }}}^{\text {St }}$ | South－ West | North－ West |
| 6：00 |  |  |  | 0 |  | 0 |  |  |  |  |
| 6：15 | 0 | 0 | 0 | 0 |  | 0 |  | 0 |  |  |
|  | $\bigcirc$ | 。 | 0 |  |  | 0 |  | 0 | 0 |  |
| 6.30 <br> 6.45 | 1 | 1 | 。 | － | 0 | 0 |  | 2 | 。 |  |
| $\begin{array}{\|l\|l\|l\|} \hline 6: 55 \\ \hline \\ \hline \end{array}$ | 。 | 。 | 0 | 0 | 0 | 0 |  | 0 | 0 |  |
| $\begin{array}{\|l\|l\|} \hline 7: 00 \\ \hline 7: 15 \\ \hline \end{array}$ | 0 | 0 | 0 | ． | 0 | 0 |  | 0 | 。 |  |
|  | 0 | 。 | 。 | 0 | 0 | 0 |  | 0 |  |  |
| $7: 30$ <br> $7: 45$ | 0 | 0 | 0 | 0 | 0 | ． |  | 。 | 。 |  |
|  | 0 | 1 | － | － | 0 | 0 |  |  |  |  |
|  | 。 | 1 | 。 | ． |  | 0 |  | 1 | 。 |  |
|  | 0 | 0 | 。 | 0 | 0 | 0 |  | 0 |  |  |
| $8: 30$ <br> $8: 45$ | $\bigcirc$ | 。 | － |  |  | 0 |  | 0 | $\bigcirc$ |  |
|  | 0 | 1 | 。 | 0 | 0 | 0 |  | 1 |  |  |
| $9: 00$ <br> $9: 15$ | 0 | 0 | 。 | 0 |  | 。 |  | 。 | 。 |  |
|  | 0 | 1 | 0 | 。 | 1 | 0 |  | 1 |  |  |
|  | 0 | 0 | 。 | 。 | 0 | 0 |  | 0 | 。 |  |
| $9: 30$ <br> 9.45 <br> $10: 00$ | 0 | 0 | 0 | 0 | 0 | 1 |  | 0 |  |  |
|  | 0 | 1 | 。 | － |  | 。 |  |  | 。 |  |
|  | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 |  |  |
| $\begin{array}{l\|l} 10: 30 \\ \hline 10: 45 \\ \hline \end{array}$ | 0 | 0 | 0 |  |  | 0 |  | 0 | $\bigcirc$ |  |
|  | 0 | 0 | － | 0 | 0 | 0 |  | 0 |  |  |
|  | 0 | 。 | － |  | 0 | 0 |  | 0 | $\bigcirc$ |  |
| $11: 15$ <br> $11: 30$ | 0 | 0 | － | 0 | 0 | 0 |  | 0 | $\bigcirc$ |  |
| 11：30 <br> $11: 45$ | 0 | 0 | 0 | 0 | 2 | 0 |  | 0 | $\bigcirc$ |  |
| 12：45 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | $\bigcirc$ |  |
|  | 0 | 。 | 0 |  | 2 | 0 |  | 0 | $\bigcirc$ |  |
| 12：15 12：30 | 0 | 。 |  | 0 | 0 | 0 |  | 0 |  |  |
| 12：45 | 0 | 。 | － |  | 0 | 0 |  | 0 | $\bigcirc$ |  |
| 13：00 | 0 | 0 | 0 | 0 |  | $\bigcirc$ |  | 0 | $\bigcirc$ |  |
| $13: 00$ $13: 15$ | 。 |  | － |  |  | 0 |  |  |  |  |
| 13：30 | 0 | 。 | 0 | 0 | $\bigcirc$ | 0 |  | 0 | $\bigcirc$ |  |
| 13.45 | － | 0 | 0 | 0 | 0 | $\bigcirc$ |  | 0 |  |  |
| 14：00 | 0 | 0 | 0 | 0 | 1 | 0 |  | 0 | 0 |  |
| ${ }_{1}^{14.15}$ | 0 | 0 | 0 | 0 | 0 | 0 |  | － |  |  |
| 14：30 | － | 0 | － | $\bigcirc$ | 0 | 0 |  | 0 | $\bigcirc$ |  |
|  | － | 。 | － | 0 | 0 | 0 |  | 0 |  |  |
|  | 0 | 。 | $\bigcirc$ | $\bigcirc$ |  | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ |  |
| $\begin{aligned} & 15: 00 \\ & 15: 515 \\ & \hline 100 \end{aligned}$ | 0 | － | 0 | 0 | 0 | 0 |  | 0 |  |  |
|  | 0 | 1 | － |  |  | － |  |  |  |  |
| 15：30 | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ |  |  |  |  |  |  |
|  | $\bigcirc$ | 0 |  | 0 |  | 0 |  |  |  |  |
| ${ }^{16: 00} 1$ | 。 | 0 | － | 0 | $\bigcirc$ |  |  | 0 |  |  |
| $16: 30$ <br> 1605 <br> 1 | $\bigcirc$ | 0 | $\bigcirc$ | $\bigcirc$ |  | $\bigcirc$ |  | 0 |  |  |
| $\begin{aligned} & 16: 45 \\ & 17: 000 \end{aligned}$ | $\bigcirc$ | 0 | $\bigcirc$ | 0 | 1 | 0 |  |  |  |  |
|  | － | 0 | $\bigcirc$ | 0 | 3 | 0 |  |  |  |  |
| 17：00｜ | － | － | － | 0 | 1 | $\bigcirc$ |  | $\bigcirc$ |  |  |
| 17：30 | 1 | 0 | 0 | 0 | 3 | 0 |  |  |  |  |
| 17：45 | 。 | 0 | － | 0 | 0 | － |  | $\bigcirc$ |  |  |
| 18：00 |  |  | 0 | 0 | 0 |  |  |  |  |  |
| $18: 15$ |  | － | $\bigcirc$ | $\bigcirc$ | 0 | － |  |  |  |  |
| $18: 30$ <br> $18: 45$ |  | 0 | 0 | 0 | 1 | 0 |  |  |  |  |
|  |  | 0 | $\bigcirc$ | $\bigcirc$ |  | $\bigcirc$ |  | － | 0 |  |
| $18: 45$$19: 00$ |  |  |  |  |  | 0 |  |  |  |  |
| 19.15 |  | 0 |  | 0 |  | $\bigcirc$ |  | 0 |  |  |
| 1930 |  | － |  |  |  | 0 |  | － |  |  |
| 19：45 |  |  |  |  |  | － |  | 0 |  |  |
| 20.0020.15 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | － |  |  |
| 20：15 |  | － | 。 |  |  |  |  | － |  |  |
| $20: 45$－ |  | 0 | $\bigcirc$ |  | 0 | 0 |  | $\bigcirc$ |  |  |
| 21：00 |  | － | － |  | 1 | 0 |  | 。 |  |  |
| $21: 15$ |  |  |  |  | $\bigcirc$ | 0 |  |  |  |  |
|  |  |  |  |  |  |  |  | 0 |  |  |
| ${ }_{\text {21：30 }}$ |  |  |  |  |  | － |  | － |  |  |
| Total Count |  |  |  |  | 25 |  | 39 | 11 |  | ${ }^{26}$ |
| 24 hr Fator | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1. |
| 24 arrvolume | 3 | 10 | 3 | 0 | 28 | 2 | ${ }^{43}$ | ${ }^{13}$ |  | 2 |



| Traffic Count Axle Factor Sheet Transportation Development Division |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Site: 37226County: CoosCity: Coos BayMilepoint: 237.38Count Number: 1.00 |  |  |  |  |  |  |  | Date: 7/11/2017 <br> Hours: 6:00 AM-10:00 PM <br> Highway \#: 009 <br> OREGON COAST HIGHWAY NO. 9 / <br> Location: N.Bayshore Dr. (US101) at Koos Bay Weather: |  |  |  |  |  |  |  |
|  | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Ped With Bicycle | Other <br> Ped | Total All Vehicle |
| Direction FromTo |  |  | 2 AxI | 3 AxI | 4+ AxI | 4- AxI | 5 AxI | 6+AxI | 5- AxI | 6 AxI | 7+AxI |  |  |  |  |  |
| SE-SW | 493 | 815 | 24 | 5 |  | 2 | 5 |  |  |  |  | 5 | 6 |  |  | 1355 |
| SE-NW | 3586 | 6872 | 324 | 86 | 3 | 151 | 231 | 124 | 2 | 1 | 42 | 19 | 142 |  |  | 11583 |
| SW-SE | 545 | 912 | 61 | 12 |  | 10 | 4 | 4 |  |  |  | 4 | 8 |  |  | 1560 |
| NW-SE | 3678 | 6802 | 362 | 108 |  | 153 | 219 | 120 | 3 |  | 40 | 23 | 155 |  |  | 11663 |
| Total Volume | 8302 | 15401 | 771 | 211 | 3 | 316 | 459 | 248 | 5 | 1 | 82 | 51 | 311 |  |  | 26161 |
| Axle Factor | 1.1 | 1.1 | 1 | 1.5 | 2 | 2 | 2.5 | 3 | 2.5 | 3 | 3.5 | 1.1 | 1 |  |  | 0.862 SE Leg |
| Veh O/Count | 9132 | 16941 | 771 | 317 | 6 | 632 | 1148 | 744 | 13 | 3 | 287 | 56 | 311 |  |  | 30361 |
| SE-SW | 493 | 815 | 24 | 5 |  | 2 | 5 |  |  |  |  | 5 | 6 |  |  | 1355 |
| SW-SE | 545 | 912 | 61 | 12 |  | 10 | 4 | 4 |  |  |  | 4 | 8 |  |  | 1560 |
| SW-NW | 100 | 172 | 17 |  |  | 1 | 3 |  |  |  |  | 4 | 1 |  |  | 298 |
| NW-SW | 130 | 160 | 8 | 1 |  | 1 | 3 |  |  |  |  | 1 |  |  |  | 304 |
| Total Volume | 1268 | 2059 | 110 | 18 | 0 | 14 | 15 | 4 | 0 | 0 | 0 | 14 | 15 |  |  | 3517 |
| Axle Factor | 1.1 | 1.1 | 1 | 1.5 | 2 | 2 | 2.5 | 3 | 2.5 | 3 | 3.5 | 1.1 | 1 |  |  | 0.901 SW Leg |
| Veh O/Count | 1395 | 2265 | 110 | 27 | 0 | 28 | 38 | 12 | 0 | 0 | 0 | 15 | 15 |  |  | 3905 |
| SE-NW | 3586 | 6872 | 324 | 86 | 3 | 151 | 231 | 124 | 2 | 1 | 42 | 19 | 142 |  |  | 11583 |
| SW-NW | 100 | 172 | 17 |  |  | 1 | 3 |  |  |  |  | 4 | 1 |  |  | 298 |
| NW-SE | 3678 | 6802 | 362 | 108 |  | 153 | 219 | 120 | 3 |  | 40 | 23 | 155 |  |  | 11663 |
| NW-SW | 130 | 160 | 8 | 1 |  | 1 | 3 |  |  |  |  | 1 |  |  |  | 304 |
| Total Volume | 7494 | 14006 | 711 | 195 | 3 | 306 | 456 | 244 | 5 | 1 | 82 | 47 | 298 |  |  | 23848 |
| Axle Factor | 1.1 | 1.1 | 1 | 1.5 | 2 | 2 | 2.5 | 3 | 2.5 | 3 | 3.5 | 1.1 | 1 |  |  | 0.858 NW Leg |
| Veh O/Count | 8243 | 15407 | 711 | 293 | 6 | 612 | 1140 | 732 | 13 | 3 | 287 | 52 | 298 |  |  | 27797 |

## Percentage By Federal Vehicle Classification

Transportation Development Division


| Percentage Trucks By Federal Vehicle Classification |
| :---: | :---: |
| Transportation Development Division |

Count Number: 1.00 Weather:

| Peak Volume Hour 7/11/17 12:00 PM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Sgl. Unit Truck | Multi <br> Unit <br> Truck | Total All Vehicles |  |
| NW | 48 | 57 | 1131 |  |
| \% | 4.244 | 5.04 | 100 |  |
| SE | 57 | 51 | 1123 |  |
| \% | 5.076 | 4.541 | 100 |  |
| Total volume | 105 | 108 | 2254 |  |
| \% of Total | 4.658 | 4.791 | 100 | South-East Leg |
| NE | 8 | 1 | 147 |  |
| \% | 5.442 | 0.68 | 100 |  |
| SW | 3 | 1 | 146 |  |
| \% | 2.055 | 0.685 | 100 |  |
| Total volume | 11 | 2 | 293 |  |
| \% of Total | 3.754 | 0.683 | 100 | $\begin{aligned} & \text { South-West } \\ & \text { Leg } \end{aligned}$ |
| SE | 52 | 52 | 1040 |  |
| \% | 5 | 5 | 100 |  |
| NW | 48 | 58 | 1049 |  |
| \% | 4.576 | 5.529 | 100 |  |
| Total volume | 100 | 110 | 2089 |  |
| \% of Total | 4.787 | 5.266 | 100 | $\begin{aligned} & \text { North-West } \\ & \text { Leg } \end{aligned}$ |

## US 101 \& Hemlock/Front

# SOUTHERNOREGON <br> TRANSPORTATION ENGINEERING <br> Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell 

North-South: US 101
East-West: Hemlock Ave / Front St
Weather: Overcast / 60 deg
Veh Type: All Vehicles

File Name : Hemlock-101
Site Code : 00000001
Start Date : 4/10/2018 Page No :1

Groups Printed- Unshifted

|  | US 101 From North |  |  |  |  | Front St From East |  |  |  |  | US 101 <br> From South |  |  |  |  | Hemlock Ave From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Toal | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Toal | Left | Thru | Right | Peds | App. Toal | Int. Total |
| 06:00 AM | 1 | 61 | 1 | 1 | 64 | 0 | 0 | 0 | 0 | 0 | 1 | 63 | 0 | 0 | 64 | 0 | 1 | 0 | 0 | 1 | 129 |
| 06:15 AM | 1 | 75 | 1 | 0 | 77 | 0 | 0 | 0 | 0 | 0 | 2 | 96 | 0 | 0 | 98 | 0 | 1 | 4 | 0 | 5 | 180 |
| 06:30 AM | 1 | 112 | 2 | 3 | 118 | 0 | 0 | 2 | 0 | 2 | 5 | 115 | 0 | 0 | 120 | 2 | 0 | 4 | 0 | 6 | 246 |
| 06:45 AM | 2 | 117 | 2 | 1 | 122 | 0 | 0 | 0 | 0 | 0 | 2 | 177 | 0 | 0 | 179 | 0 | 0 | 3 | 0 | 3 | 304 |
| Total | 5 | 365 | 6 | 5 | 381 | 0 | 0 | 2 | 0 | 2 | 10 | 451 | 0 | 0 | 461 | 2 | 2 | 11 | 0 | 15 | 859 |
| 07:00 AM | 3 | 130 | 2 | 0 | 135 | 0 | 0 | 1 | 0 | 1 | 5 | 148 | 0 | 0 | 153 | 1 | 0 | 3 | 0 |  | 293 |
| 07:15 AM | 0 | 163 | 0 | 0 | 163 | 0 | 0 | 0 | 0 | 0 | 2 | 199 | 0 | 0 | 201 | 3 | 0 | 7 | 0 | 10 | 374 |
| 07:30 AM | 2 | 184 | 2 | 2 | 190 | 0 | 0 | 0 | 0 | 0 | 8 | 252 | 0 | 0 | 260 | 1 | 0 | 1 | 0 | 2 | 452 |
| 07:45 AM | 6 | 255 | 0 | 2 | 263 | 0 | 0 | 0 | 0 | 0 | 5 | 268 | 1 | 0 | 274 | 2 | 0 | 0 | 0 | 2 | 539 |
| Total | 11 | 732 | 4 |  | 751 | 0 | 0 | 1 | 0 | 1 | 20 | 867 | 1 | 0 | 888 | 7 | 0 | 11 | 0 | 18 | 1658 |
| 08:00 AM | 2 | 176 | 8 | 4 | 190 | 0 | 0 | 1 | 0 | 1 | 6 | 192 | 0 | 0 | 198 |  | 0 | 2 |  | 4 | 393 |
| 08:15 AM | 3 | 145 | 7 | 0 | 155 | 0 | 0 | 0 | 0 | 0 | 8 | 194 | 0 | 0 | 202 | 2 | 0 | 5 | 0 | 7 | 364 |
| 08:30 AM | 3 | 144 | 2 | 2 | 151 | 0 | 0 | 0 | 0 | 0 | 8 | 229 | 0 | 0 | 237 | 3 | 0 | 5 | 0 | 8 | 396 |
| 08:45 AM | 5 | 162 | 6 | 1 | 174 | 0 | 0 | 0 | 0 | 0 | 3 | 206 | 0 | 0 | 209 | 1 | 0 | 5 | 0 | 6 | 389 |
| Total | 13 | 627 | 23 | 7 | 670 | 0 | 0 | 1 | 0 | 1 | 25 | 821 | 0 | 0 | 846 | 7 | 0 | 17 | 1 | 25 | 1542 |


| 09:00 AM | 5 | 157 | 1 | 1 | 164 | 0 | 0 | 0 | 0 | 0 | 4 | 181 | 0 | 0 | 185 | 2 | 0 | 3 | 0 | 5 | 354 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 09:15 AM | 4 | 172 | 3 | 0 | 179 | 0 | 0 | 0 | 0 | 0 | 5 | 174 | 0 | 0 | 179 | 2 | 0 | 2 | 0 | 4 | 362 |
| $09: 30$ AM | 5 | 152 | 1 | 0 | 158 | 0 | 0 | 1 | 0 | 1 | 8 | 202 | 0 | 0 | 210 | 0 | 0 | 5 | 0 | 5 | 374 |
| $09: 45$ AM | 6 | 206 | 5 | 0 | 217 | 0 | 0 | 0 | 0 | 0 | 4 | 189 | 0 | 0 | 193 | 0 | 0 | 1 | 0 | 1 | 411 |
| Total | 20 | 687 | 10 | 1 | 718 | 0 | 0 | 1 | 0 | 1 | 21 | 746 | 0 | 0 | 767 | 4 | 0 | 11 | 0 | 15 | 1501 |


| $10: 00$ AM | 8 | 190 | 2 | 1 | 201 | 0 | 0 | 0 | 0 | 0 | 1 | 190 | 0 | 0 | 191 | 1 | 0 | 2 | 0 | 3 | 395 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 10:15 AM | 3 | 195 | 2 | 2 | 202 | 0 | 0 | 1 | 0 | 1 | 5 | 207 | 0 | 0 | 212 | 1 | 1 | 6 | 0 | 8 | 423 |
| $10: 30$ AM | 2 | 163 | 4 | 2 | 171 | 0 | 0 | 1 | 0 | 1 | 5 | 226 | 0 | 0 | 231 | 1 | 0 | 1 | 0 | 2 | 405 |
| $10: 45$ AM | 0 | 193 | 5 | 1 | 199 | 0 | 0 | 3 | 0 | 3 | 8 | 233 | 1 | 1 | 243 | 2 | 0 | 0 | 0 | 2 | 447 |
| Total | 13 | 741 | 13 | 6 | 773 | 0 | 0 | 5 | 0 | 5 | 19 | 856 | 1 | 1 | 877 | 5 | 1 | 9 | 0 | 15 | 1670 |


| $11: 00 \mathrm{AM}$ | 4 | 249 | 5 | 3 | 261 | 0 | 0 | 3 | 0 | 3 | 5 | 214 | 1 | 0 | 220 | 2 | 0 | 1 | 0 | 3 | 487 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $11: 15 \mathrm{AM}$ | 4 | 231 | 8 | 2 | 245 | 0 | 0 | 1 | 0 | 1 | 6 | 212 | 0 | 0 | 218 | 4 | 0 | 5 | 0 | 9 | 473 |
| $11: 30 \mathrm{AM}$ | 3 | 196 | 4 | 4 | 207 | 0 | 0 | 1 | 0 | 1 | 7 | 243 | 0 | 0 | 250 | 2 | 0 | 6 | 0 | 8 | 466 |
| $11: 45 \mathrm{AM}$ | 7 | 227 | 3 | 3 | 240 | 0 | 0 | 1 | 0 | 1 | 4 | 211 | 0 | 0 | 215 | 0 | 0 | 5 | 0 | 5 | 461 |
| Total | 18 | 903 | 20 | 12 | 953 | 0 | 0 | 6 | 0 | 6 | 22 | 880 | 1 | 0 | 903 | 8 | 0 | 17 | 0 | 25 | 1887 |


| 12:00 PM | 4 | 257 | 4 | 2 | 267 | 0 | 0 | 2 | 0 | 2 | 10 | 261 | 0 | 0 | 271 | 1 | 0 | 6 | 0 | 7 | 547 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $12: 15 ~ P M$ | 1 | 224 | 2 | 3 | 230 | 0 | 0 | 4 | 0 | 4 | 4 | 234 | 0 | 0 | 238 | 0 | 0 | 1 | 0 | 1 | 473 |
| $12: 30 ~ P M$ | 6 | 227 | 4 | 0 | 237 | 0 | 0 | 1 | 0 | 1 | 5 | 259 | 0 | 0 | 264 | 2 | 0 | 9 | 0 | 11 | 513 |
| $12: 45$ PM | 2 | 240 | 5 | 1 | 248 | 0 | 0 | 5 | 0 | 5 | 4 | 256 | 0 | 0 | 260 | 1 | 0 | 2 | 0 | 3 | 516 |
| Total | 13 | 948 | 15 | 6 | 982 | 0 | 0 | 12 | 0 | 12 | 23 | 1010 | 0 | 0 | 1033 | 4 | 0 | 18 | 0 | 22 | 2049 |


| 01:00 PM | 4 | 267 | 5 | 1 | 277 | 0 | 0 | 0 | 0 | 0 | 9 | 232 | 8 | 0 | 249 | 2 | 0 | 4 | 0 | 6 | 532 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 01:15 PM | 3 | 235 | 6 | 1 | 245 | 0 | 0 | 0 | 0 | 0 | 9 | 203 | 0 | 0 | 212 | 2 | 0 | 5 | 0 | 7 | 464 |
| 01:30 PM | 2 | 242 | 2 | 1 | 247 | 0 | 0 | 1 | 0 | 1 | 4 | 239 | 0 | 0 | 243 | 1 | 0 | 7 | 0 | 8 | 499 |
| 01:45 PM | 3 | 249 | 7 | 5 | 264 | 0 | 0 | 2 | 0 | 2 | 4 | 212 | 0 | 0 | 216 | 0 | 0 | 2 | 0 | 2 | 484 |
| Total | 12 | 993 | 20 | 8 | 1033 | 0 | 0 | 3 | 0 | 3 | 26 | 886 | 8 | 0 | 920 | 5 | 0 | 18 | 0 | 23 | 1979 |
| 02:00 PM | 3 | 253 | 2 | 1 | 259 | 0 | 0 | 0 | 0 | 0 | 8 | 242 | 0 | 0 | 250 | 2 | 0 | 1 | 0 | 3 | 512 |
| 02:15 PM | 2 | 287 | 2 | 0 | 291 | 0 | 0 | 4 | 0 | 4 | 2 | 211 | 0 | 0 | 213 | 0 | 0 | 6 | 0 | 6 | 514 |
| 02:30 PM | 1 | 253 | 1 | 3 | 258 | 0 | 0 | 0 | 0 | 0 | 10 | 256 | 0 | 0 | 266 | 1 | 0 | 2 | 0 | 3 | 527 |
| 02:45 PM | 4 | 252 | 4 | 1 | 261 | 0 | 0 | 1 | 0 | 1 | 7 | 229 | 0 | 0 | 236 | 3 | 0 | 3 | 0 | 6 | 504 |
| Total | 10 | 1045 | 9 | 5 | 1069 | 0 | 0 | 5 | 0 | 5 | 27 | 938 | 0 | 0 | 965 | 6 | 0 | 12 | 0 | 18 | 2057 |
| 03:00 PM | 3 | 227 | 4 | 0 | 234 | 0 | 0 | 1 | 0 | 1 | 1 | 256 | 0 | 0 | 257 | 1 | 0 | 7 | 0 | 8 | 500 |
| 03:15 PM | 0 | 268 | 3 | 0 | 271 | 0 | 0 | 2 | 0 | 2 | 8 | 229 | 0 | 0 | 237 | 2 | 0 | 4 | 1 | 7 | 517 |

# SOUTHERNOREGON <br> TRANSPORTATION ENGINEERING <br> Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell 

North-South: US 101
East-West: Hemlock Ave / Front St
Weather: Overcast / 60 deg
Veh Type: All Vehicles

File Name : Hemlock-101
Site Code : 00000001
Start Date : 4/10/2018
Page No :2

|  | US 101 <br> From North |  |  |  |  | Front St <br> From East |  |  |  |  | US 101 From South |  |  |  |  | Hemlock Ave From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| 03:30 PM | 3 | 281 | 1 | 1 | 286 | 1 | 0 | 1 | 0 | 2 | 0 | 243 | 0 | 0 | 243 | 2 | 0 | 5 | 0 | 7 | 538 |
| 03:45 PM | 5 | 245 | 5 | 0 | 255 | 0 | 0 | 3 | 0 | 3 | 6 | 253 | 0 | 0 | 259 | 3 | 0 | 3 | 0 | 6 | 523 |
| Total | 11 | 1021 | 13 | 1 | 1046 | 1 | 0 | 7 | 0 | 8 | 15 | 981 | 0 | 0 | 996 | 8 | 0 | 19 | 1 | 28 | 2078 |
| 04:00 PM | 3 | 297 | 2 | 1 | 303 | 0 | 0 | 2 | 0 | 2 | 6 | 243 | 0 | 0 | 249 | 0 | 0 | 5 | 0 | 5 | 559 |
| 04:15 PM | 1 | 275 | 4 | 4 | 284 | 0 | 0 | 1 | 0 | 1 | 4 | 246 | 0 | 0 | 250 | 1 | 0 | 2 | 0 | 3 | 538 |
| 04:30 PM | 2 | 244 | 0 | 0 | 246 | 0 | 0 | 1 | 0 | 1 | 3 | 236 | 0 | 0 | 239 | 6 | 0 | 5 | 0 | 11 | 497 |
| 04:45 PM | 2 | 298 | 3 | 3 | 306 | 0 | 0 | 1 | 0 | 1 | 5 | 264 | 0 | 0 | 269 | 1 | 0 | 4 | 0 | 5 | 581 |
| Total | 8 | 1114 | 9 | 8 | 1139 | 0 | 0 | 5 | 0 | 5 | 18 | 989 | 0 | 0 | 1007 | 8 | 0 | 16 | 0 | 24 | 2175 |
| 05:00 PM | 3 | 291 | 1 | 2 | 297 | 0 | 0 | 3 | 0 | 3 | 3 | 245 | 0 | 0 | 248 | 1 | 0 | 2 | 0 | 3 | 551 |
| 05:15 PM | 4 | 265 | 2 | 1 | 272 | 0 | 0 | 0 | 0 | 0 | 5 | 250 | 0 | 0 | 255 | 2 | 0 | 3 | 0 | 5 | 532 |
| 05:30 PM | 1 | 249 | 0 | 1 | 251 | 0 | 0 | 2 | 0 | 2 | 2 | 217 | 1 | 0 | 220 | 2 | 0 | 1 | 0 | 3 | 476 |
| 05:45 PM | 0 | 234 | 1 | 1 | 236 | 0 | 0 | 0 | 0 | 0 | 1 | 198 | 0 | 0 | 199 | 0 | 0 | 2 | 0 | 2 | 437 |
| Total | 8 | 1039 | 4 | 5 | 1056 | 0 | 0 | 5 | 0 | 5 | 11 | 910 | 1 | 0 | 922 | 5 | 0 | 8 | 0 | 13 | 1996 |
| 06:00 PM | 0 | 146 | 0 | 2 | 148 | 0 | 0 | 0 | 0 | 0 | 4 | 174 | 0 | 0 | 178 | 1 | 0 | 2 | 0 | 3 | 329 |
| 06:15 PM | 2 | 179 | 1 | 1 | 183 | 1 | 0 | 2 | 0 | 3 | 3 | 171 | 0 | 0 | 174 | 0 | 1 | 0 | 0 | 1 | 361 |
| 06:30 PM | 1 | 153 | 1 | 0 | 155 | 0 | 0 | 0 | 0 | 0 | 0 | 147 | 0 | 0 | 147 | 0 | 0 | 3 | 0 | 3 | 305 |
| 06:45 PM | 0 | 127 | 0 | 0 | 127 | 0 | 0 | 1 | 0 | 1 | 2 | 104 | 0 | 0 | 106 | 0 | 0 | 3 | 0 | 3 | 237 |
| Total | 3 | 605 | 2 | 3 | 613 | 1 | 0 | 3 | 0 | 4 | 9 | 596 | 0 | 0 | 605 | 1 | 1 | 8 | 0 | 10 | 1232 |


| $07: 00 ~ P M ~$ | 1 | 144 | 0 | 0 | 145 | 0 | 0 | 0 | 0 | 0 | 2 | 99 | 0 | 0 | 101 | 0 | 0 | 3 | 0 | 3 | 249 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $07: 15 ~ P M$ | 1 | 143 | 2 | 4 | 150 | 0 | 0 | 0 | 1 | 1 | 0 | 115 | 0 | 0 | 115 | 1 | 0 | 1 | 0 | 2 | 268 |
| 07:30 PM | 0 | 131 | 0 | 1 | 132 | 0 | 0 | 1 | 0 | 1 | 2 | 118 | 0 | 0 | 120 | 2 | 0 | 4 | 0 | 6 | 259 |
| $07: 45$ PM | 1 | 115 | 0 | 1 | 117 | 0 | 0 | 0 | 0 | 0 | 3 | 92 | 0 | 0 | 95 | 0 | 0 | 2 | 0 | 2 | 214 |
| Total | 3 | 533 | 2 | 6 | 544 | 0 | 0 | 1 | 1 | 2 | 7 | 424 | 0 | 0 | 431 | 3 | 0 | 10 | 0 | 13 | 990 |


| 08:00 PM | 1 | 97 | 1 | 5 | 104 | 0 | 0 | 0 | 0 | 0 | 1 | 80 | 0 | 0 | 81 | 0 | 0 | 4 | 0 | 4 | 189 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 08:15 PM | 0 | 95 | 2 | 1 | 98 | 0 | 0 | 0 | 0 | 0 | 2 | 70 | 0 | 1 | 73 | 1 | 0 | 1 | 0 | 2 | 173 |
| 08:30 PM | 0 | 83 | 0 | 1 | 84 | 0 | 0 | 0 | 0 | 0 | 1 | 71 | 0 | 0 | 72 | 0 | 0 | 2 | 0 | 2 | 158 |
| 08:45 PM | 1 | 95 | 2 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 1 | 70 | 0 | 0 | 71 | 1 | 0 | 1 | 0 | 2 | 171 |
| Total | 2 | 370 | 5 | 7 | 384 | 0 | 0 | 0 | 0 | 0 | 5 | 291 | 0 | 1 | 297 | 2 | 0 | 8 | 0 | 10 | 691 |


| 09:00 PM | 1 | 92 | 0 | 1 | 94 | 0 | 0 | 0 | 0 | 0 | 2 | 62 | 0 | 0 | 64 | 0 | 0 | 0 | 0 | 0 | 158 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 09:15 PM | 1 | 97 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 2 | 45 | 0 | 0 | 47 | 1 | 0 | 2 | 0 | 3 | 150 |
| 09:30 PM | 0 | 49 | 0 | 0 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 57 | 0 | 0 | 57 | 0 | 0 | 1 | 0 | 1 | 107 |
| 09:45 PM | 0 | 52 | 0 | 0 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 0 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 86 |
| Total | 2 | 290 | 0 | 3 | 295 | 0 | 0 | 0 | 0 | 0 | 4 | 198 | 0 | 0 | 202 | 1 | 0 | 3 | 0 | 4 | 501 |
| Grand Total | 152 | 12013 | 155 | 87 | 12407 | 2 | 0 | 57 | 1 | 60 | 262 | 11844 | 12 | 2 | 12120 | 76 | 4 | 196 | 2 | 278 | 24865 |
| Apprch \% | 1.2 | 96.8 | 1.2 | 0.7 |  | 3.3 | 0 | 95 | 1.7 |  | 2.2 | 97.7 | 0.1 | 0 |  | 27.3 | 1.4 | 70.5 | 0.7 |  |  |
| Total \% | 0.6 | 48.3 | 0.6 | 0.3 | 49.9 | 0 | 0 | 0.2 | 0 | 0.2 | 1.1 | 47.6 | 0 | 0 | 48.7 | 0.3 | 0 | 0.8 | 0 | 1.1 |  |

# SOUTHERNOREGON <br> TRANSPORTATION ENGINEERING 

Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: US 101
East-West: Hemlock Ave / Front St
Weather: Overcast / 60 deg
Veh Type: All Vehicles

File Name : Hemlock-101
Site Code : 00000001
Start Date : 4/10/2018
Page No : 3

|  | US 101 <br> From North |  |  |  |  | Front St From East |  |  |  |  | US 101 <br> From South |  |  |  |  | Hemlock Ave From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Left | Thru | Right | Peds | App. Toal | Left | $\begin{gathered} \mathrm{Thr} \\ \mathrm{u} \end{gathered}$ | $\begin{gathered} \mathrm{Rig} \\ \mathrm{ht} \end{gathered}$ | Ped | App. Total | Left | $\begin{gathered} \text { Thr } \\ \mathrm{u} \end{gathered}$ | $\begin{gathered} \text { Rig } \\ \mathrm{ht} \end{gathered}$ | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. Total | Left | $\begin{gathered} \text { Thr } \\ \mathrm{u} \end{gathered}$ | $\underset{\mathrm{ht}}{\mathrm{Rig}}$ | Ped s | App. Total | $\begin{array}{r} \text { Int. } \\ \text { Total } \end{array}$ |

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 163 | 0 | 0 | 163 | 0 | 0 | 0 | 0 | 0 | 2 | 199 | 0 | 0 | 201 | 3 | 0 | 7 | 0 | 10 |
| +15 mins. | 2 | 184 | 2 | 2 | 190 | 0 | 0 | 0 | 0 | 0 | 8 | 252 | 0 | 0 | 260 | 1 | 0 | 1 | 0 | 2 |
| +30 mins. | 6 | 255 | 0 | 2 | 263 | 0 | 0 | 0 | 0 | 0 | 5 | 268 | 1 | 0 | 274 | 2 | 0 | 0 | 0 | 2 |
| +45 mins. | 2 | 176 | 8 | 4 | 190 | 0 | 0 | 1 | 0 | 1 | 6 | 192 | 0 | 0 | 198 | 1 | 0 | 2 | 1 | 4 |
| Total Volume | 10 | 778 | 10 | 8 | 806 | 0 | 0 | 1 | 0 | 1 | 21 | 911 | 1 | 0 | 933 | 7 | 0 | 10 | 1 | 18 |
| \% App. Total | 1.2 | 96.5 | 1.2 | 1 |  | 0 | 0 | 100 | 0 |  | 2.3 | 97.6 | 0.1 | 0 |  | 38.9 | 0 | 55.6 | 5.6 |  |
| PHF | . 417 | . 763 | . 313 | . 500 | . 766 | . 000 | . 000 | . 250 | . 000 | . 250 | . 656 | . 850 | . 250 | . 000 | . 851 | . 583 | . 000 | . 357 | . 250 | . 450 |

# SOUTHERNOREGON <br> TRANSPORTATION ENGINEERING 

Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: US 101
East-West: Hemlock Ave / Front St
Weather: Overcast / 60 deg
Veh Type: All Vehicles

File Name : Hemlock-101
Site Code : 00000001
Start Date : 4/10/2018
Page No : 4

|  | US 101 <br> From North |  |  |  |  | Front St From East |  |  |  |  | US 101 From South |  |  |  |  | Hemlock Ave From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Left | Thru | Right | Peds | App. Total | Left | Thr <br> u | Rig ht | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Left | Thr u | Rig ht | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \end{array}$ | $\begin{array}{r} \text { Rig } \\ \text { ht } \end{array}$ | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Int. Total |

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 2 | 244 | 0 | 0 | 246 | 0 | 0 | 1 | 0 | 1 | 3 | 236 | 0 | 0 | 239 | 6 | 0 | 5 | 0 | 11 |
| +15 mins. | 2 | 298 | 3 | 3 | 306 | 0 | 0 | 1 | 0 | 1 | 5 | 264 | 0 | 0 | 269 | 1 | 0 | 4 | 0 | 5 |
| +30 mins. | 3 | 291 | 1 | 2 | 297 | 0 | 0 | 3 | 0 | 3 | 3 | 245 | 0 | 0 | 248 | 1 | 0 | 2 | 0 | 3 |
| +45 mins. | 4 | 265 | 2 | 1 | 272 | 0 | 0 | 0 | 0 | 0 | 5 | 250 | 0 | 0 | 255 | 2 | 0 | 3 | 0 | 5 |
| Total Volume | 11 | 1098 | 6 | 6 | 1121 | 0 | 0 | 5 | 0 | 5 | 16 | 995 | 0 | 0 | 1011 | 10 | 0 | 14 | 0 | 24 |
| \% App. Total | 1 | 97.9 | 0.5 | 0.5 |  | 0 | 0 | 100 | 0 |  | 1.6 | 98.4 | 0 | 0 |  | 41.7 | 0 | 58.3 | 0 |  |
| PHF | 688 | 921 | 500 | 500 | 916 | 000 | 000 | . 417 | . 000 | 417 | 800 | . 942 | 000 | 0 | . 940 | 417 | 000 | . 700 | 00 | 545 |



## US 101 \& Ivy St

North-South: US 101
File Name: Ivy-101
East-West: Ivy Street
Weather: Overcast / 60 deg
Site Code : 00000002
Start Date : 4/10/2018
Page No : 1
Veh Type: All Vehicles

| Groups Printed- Unshifted |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | US 101 <br> From North |  |  |  |  | DW <br> From East |  |  |  |  | US 101 From South |  |  |  |  | Ivy St From West |  |  |  |  |  |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| 06:30 AM | 0 | 114 | 1 | 4 | 119 | 0 | 0 | 0 | 0 | 0 | 1 | 120 | 0 | 0 | 121 | 0 | 0 | 1 | 0 | 1 | 241 |
| 06:45 AM | 0 | 117 | 2 | 2 | 121 | 0 | 0 | 0 | 0 | 0 | 0 | 171 | 0 | 0 | 171 | 1 | 0 | 0 | 0 | 1 | 293 |
| Total | 0 | 231 | 3 | 6 | 240 | 0 | 0 | 0 | 0 | 0 | 1 | 291 | 0 | 0 | 292 | 1 | 0 | 1 | 0 | 2 | 534 |
| 07:00 AM | 0 | 135 | 0 | 0 | 135 | 0 | 0 | 0 | 0 | 0 | 3 | 150 | 0 | 0 | 153 | 0 | 0 | 0 | 0 | 0 | 288 |
| 07:15 AM | 0 | 159 | 0 | 0 | 159 | 0 | 0 | 0 | 0 | 0 | 4 | 210 | 0 | 0 | 214 | 1 | 0 | 0 | 0 | 1 | 374 |
| 07:30 AM | 0 | 192 | 1 | 1 | 194 | 0 | 0 | 0 | 0 | 0 | 2 | 243 | 0 | 0 | 245 | 1 | 0 | 1 | 0 | 2 | 441 |
| 07:45 AM | 0 | 249 | 2 | 0 | 251 | 0 | 0 | 0 | 0 | 0 | 1 | 277 | 1 | 0 | 279 | 1 | 0 | 2 | 0 | 3 | 533 |
| Total | 0 | 735 | 3 | 1 | 739 | 0 | 0 | 0 | 0 | 0 | 10 | 880 | 1 | 0 | 891 | 3 | 0 | 3 | 0 | 6 | 1636 |
| 08:00 AM | 0 | 162 | 0 | 4 | 166 | 0 | 0 | 0 | 0 | 0 | 0 | 189 | 1 | 0 | 190 | 1 | 0 | 3 | 0 | 4 | 360 |
| 08:15 AM | 2 | 159 | 3 | 0 | 164 | 0 | 0 | 0 | 0 | 0 | 1 | 186 | 0 | 1 | 188 | 0 | 0 | 4 | 0 | 4 | 356 |
| 08:30 AM | 0 | 148 | 2 | 0 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 219 | 0 | 0 | 219 | 0 | 0 | 0 | 0 | 0 | 369 |
| 08:45 AM | 0 | 162 | 1 | 2 | 165 | 0 | 0 | 0 | 0 | 0 | 1 | 203 | 0 | 0 | 204 | 0 | 0 | 5 | 0 | 5 | 374 |
| Total | 2 | 631 | 6 | 6 | 645 | 0 | 0 | 0 | 0 | 0 | 2 | 797 | 1 | 1 | 801 | 1 | 0 | 12 | 0 | 13 | 1459 |
| 09:00 AM | 0 | 169 | 3 | 1 | 173 | 0 | 0 | 0 | 0 | 0 | 4 | 186 | 0 | 0 | 190 | 3 | 0 | 2 | 0 | 5 | 368 |
| 09:15 AM | 0 | 164 | 1 | 0 | 165 | 0 | 0 | 0 | 0 | 0 | 0 | 182 | 0 | 0 | 182 | 1 | 0 | 6 | 0 | 7 | 354 |
| *** BREAK * |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 0 | 333 | 4 | 1 | 338 | 0 | 0 | 0 | 0 | 0 | 4 | 368 | 0 | 0 | 372 | 4 | 0 | 8 | 0 | 12 | 722 |

*** BREAK ***

| 03:00 PM | 0 | 235 | 0 | 0 | 235 | 0 | 0 | 0 | 0 | 0 | 2 | 270 | 0 | 0 | 272 | 1 | 0 | 3 | 0 | 4 | 511 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 03:15 PM | 0 | 266 | 2 | 0 | 268 | 0 | 0 | 0 | 0 | 0 | 5 | 226 | 0 | 0 | 231 | 2 | 0 | 3 | 0 | 5 | 504 |
| 03:30 PM | 0 | 257 | 3 | 1 | 261 | 0 | 0 | 0 | 0 | 0 | 4 | 236 | 0 | 0 | 240 | 1 | 0 | 4 | 0 | 5 | 506 |
| 03:45 PM | 0 | 257 | 1 | 2 | 260 | 1 | 0 | 2 | 0 | 3 | 2 | 250 | 0 | 0 | 252 | 2 | 0 | 4 | 0 | 6 | 521 |
| Total | 0 | 1015 | 6 | 3 | 1024 | 1 | 0 | 2 | 0 | 3 | 13 | 982 | 0 | 0 | 995 | 6 | 0 | 14 | 0 | 20 | 2042 |


| 04:00 PM | 0 | 276 | 2 | 3 | 281 | 0 | 0 | 1 | 0 | 1 | 5 | 252 | 0 | 0 | 257 | 0 | 0 | 8 | 0 | 8 | 547 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04:15 PM | 0 | 280 | 2 | 0 | 282 | 0 | 0 | 0 | 0 | 0 | 4 | 238 | 0 | 0 | 242 | 0 | 0 | 6 | 0 | 6 | 530 |
| 04:30 PM | 0 | 240 | 1 | 3 | 244 | 0 | 0 | 0 | 0 | 0 | 2 | 231 | 0 | 0 | 233 | 1 | 0 | 3 | 0 | 4 | 481 |
| 04:45 PM | 0 | 300 | 0 | 3 | 303 | 0 | 0 | 0 | 0 | 0 | 2 | 267 | 0 | 0 | 269 | 2 | 0 | 5 | 0 | 7 | 579 |
| Total | 0 | 1096 | 5 | 9 | 1110 | 0 | 0 | 1 | 0 | 1 | 13 | 988 | 0 | 0 | 1001 | 3 | 0 | 22 | 0 | 25 | 2137 |


| 05:00 PM | 0 | 272 | 1 | 4 | 277 | 0 | 0 | 0 | 0 | 0 | 0 | 246 | 0 | 0 | 246 | 1 | 0 | 3 | 0 | 4 | 527 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 05:15 PM | 0 | 282 | 2 | 2 | 286 | 0 | 0 | 0 | 0 | 0 | 1 | 258 | 0 | 0 | 259 | 1 | 0 | 3 | 0 | 4 | 549 |
| 05:30 PM | 0 | 255 | 3 | 2 | 260 | 0 | 0 | 0 | 0 | 0 | 3 | 210 | 0 | 0 | 213 | 3 | 0 | 2 | 0 | 5 | 478 |
| 05:45 PM | 0 | 234 | 3 | 3 | 240 | 0 | 0 | 0 | 0 | 0 | 0 | 193 | 0 | 0 | 193 | 2 | 0 | 4 | 0 | 6 | 439 |
| Total | 0 | 1043 | 9 | 11 | 1063 | 0 | 0 | 0 | 0 | 0 | 4 | 907 | 0 | 0 | 911 | 7 | 0 | 12 | 0 | 19 | 1993 |
| Grand Total | 2 | 5084 | 36 | 37 | 5159 | 1 | 0 | 3 | 0 | 4 | 47 | 5213 | 2 | 1 | 5263 | 25 | 0 | 72 | 0 | 97 | 10523 |
| Apprch \% | 0 | 98.5 | 0.7 | 0.7 |  | 25 | 0 | 75 | 0 |  | 0.9 | 99 | 0 | 0 |  | 25.8 | 0 | 74.2 | 0 |  |  |
| Total \% | 0 | 48.3 | 0.3 | 0.4 | 49 | 0 | 0 | 0 | 0 | 0 | 0.4 | 49.5 | 0 | 0 | 50 | 0.2 | 0 | 0.7 | 0 | 0.9 |  |

# SOUTHERNOREGON <br> TRANSPORTATION ENGINEERING 

Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: US 101
East-West: Ivy Street
Weather: Overcast / 60 deg
Veh Type: All Vehicles

File Name : Ivy-101
Site Code : 00000002
Start Date : 4/10/2018
Page No : 2

|  | $\begin{aligned} & \text { US } 101 \\ & \text { From North } \end{aligned}$ |  |  |  |  | DW From East |  |  |  |  | US 101 From South |  |  |  |  | Ivy St From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Toal | Left | $\begin{gathered} \mathrm{Thr} \\ \mathrm{u} \end{gathered}$ | $\begin{gathered} \mathrm{Rig} \\ \mathrm{ht} \end{gathered}$ | Ped | App. Total | Left | Thr | $\begin{gathered} \text { Rig } \\ \mathrm{ht} \end{gathered}$ | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. Total | Left | Thr u | $\begin{gathered} \text { Rig } \\ \mathrm{ht} \end{gathered}$ | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | $\begin{gathered} \text { Int. } \\ \text { Total } \end{gathered}$ |

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 159 | 0 | 0 | 159 | 0 | 0 | 0 | 0 | 0 | 4 | 210 | 0 | 0 | 214 | 1 | 0 | 0 | 0 | 1 |
| +15 mins. | 0 | 192 | 1 | 1 | 194 | 0 | 0 | 0 | 0 | 0 | 2 | 243 | 0 | 0 | 245 | 1 | 0 | 1 | 0 | 2 |
| +30 mins. | 0 | 249 | 2 | 0 | 251 | 0 | 0 | 0 | 0 | 0 | 1 | 277 | 1 | 0 | 279 | 1 | 0 | 2 | 0 | 3 |
| +45 mins. | 0 | 162 | 0 | 4 | 166 | 0 | 0 | 0 | 0 | 0 | 0 | 189 | 1 | 0 | 190 | 1 | 0 | 3 | 0 | 4 |
| Total Volume | 0 | 762 | 3 | 5 | 770 | 0 | 0 | 0 | 0 | 0 | 7 | 919 | 2 | 0 | 928 | 4 | 0 | 6 | 0 | 10 |
| \% App. Total | 0 | 99 | 0.4 | 0.6 |  | 0 | 0 | 0 | 0 |  | 0.8 | 99 | 0.2 | 0 |  | 40 | 0 | 60 | 0 |  |
| PHF | . 000 | . 765 | . 375 | . 313 | . 767 | . 000 | . 000 | . 000 | . 000 | . 000 | . 438 | . 829 | . 500 | . 000 | . 832 | 1.000 | . 000 | . 500 | . 000 | . 625 |



# SOUTHERNOREGON <br> TRANSPORTATION ENGINEERING 

Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: US 101
East-West: Ivy Street
Weather: Overcast / 60 deg
Veh Type: All Vehicles

File Name : Ivy-101
Site Code : 00000002
Start Date : 4/10/2018
Page No : 3

|  | US 101 <br> From North |  |  |  |  | DW <br> From East |  |  |  |  | US 101 <br> From South |  |  |  |  | Ivy St From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Left | Thru | Right | Peds | App. Total | Left | Thr <br> u | Rig ht | Ped | App. <br> Total | Left | Thr u | Rig ht | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Left | Thr u | Rig ht | Ped S | App. <br> Total | $\begin{aligned} & \text { Int. } \\ & \text { Total } \end{aligned}$ |

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 240 | 1 | 3 | 244 | 0 | 0 | 0 | 0 | 0 | 2 | 231 | 0 | 0 | 233 | 1 | 0 | 3 | 0 | 4 |
| +15 mins. | 0 | 300 | 0 | 3 | 303 | 0 | 0 | 0 | 0 | 0 | 2 | 267 | 0 | 0 | 269 | 2 | 0 | 5 | 0 | 7 |
| +30 mins. | 0 | 272 | 1 | 4 | 277 | 0 | 0 | 0 | 0 | 0 | 0 | 246 | 0 | 0 | 246 | 1 | 0 | 3 | 0 | 4 |
| +45 mins. | 0 | 282 | 2 | 2 | 286 | 0 | 0 | 0 | 0 | 0 | 1 | 258 | 0 | 0 | 259 | 1 | 0 | 3 | 0 | 4 |
| Total Volume | 0 | 1094 | 4 | 12 | 1110 | 0 | 0 | 0 | 0 | 0 | 5 | 1002 | 0 | 0 | 1007 | 5 | 0 | 14 | 0 | 19 |
| \% App. Total | 0 | 98.6 | 0.4 | 1.1 |  | 0 | 0 | 0 | 0 |  | 0.5 | 99.5 | 0 | 0 |  | 26.3 | 0 | 73.7 | 0 |  |
| PHF | 000 | 912 | 500 | 750 | 916 | 000 | 000 | 000 | 000 | 000 | . 625 | 938 | 000 | 0 | . 936 | 625 | 000 | . 700 | 00 | 679 |



## US 101 (SB) \& Fir St

## SOUTHERNOREGON

TRANSPORTATION ENGINEERING

## Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: 101 Southbound
East-West: Fir Street
Weather: Overcast
Veh Type: All Vehicles

File Name : FirSt-101SB
Site Code : 00000004
Start Date : 4/11/2018
Page No :1

Groups Printed- Unshifted

|  | 101 SB <br> From North |  |  |  |  | Fir Street From East |  |  |  |  | From South |  |  |  |  | From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Toal | Left | Thru | Right | Peds | Ap. Toal | Left | Thru | Right | Peds | App. Toala | 1nt. Total |
| 06:00 AM | 0 | 76 | 0 | 0 | 76 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 77 |
| 06:15 AM | 0 | 61 | 0 | 0 | 61 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 61 |
| 06:30 AM | 0 | 108 | 0 | 0 | 108 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 111 |
| 06:45 AM | 0 | 121 | 0 | 0 | 121 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 122 |
| Total | 0 | 366 | 0 | 0 | 366 | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 371 |
| 07:00 AM | 0 | 150 | 0 | 0 | 150 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 152 |
| 07:15 AM | 0 | 156 | 0 | 0 | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 156 |
| 07:30 AM | 0 | 183 | 0 | 1 | 184 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 184 |
| 07:45 AM | 0 | 235 | 0 | 2 | 237 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 237 |
| Total | 0 | 724 | 0 | 3 | 727 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 729 |
| 08:00 AM | 0 | 167 | 0 | 3 | 170 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 172 |
| 08:15 AM | 0 | 146 | 0 | 1 | 147 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 149 |
| 08:30 AM | 0 | 152 | 0 | 1 | 153 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 157 |
| 08:45 AM | 0 | 167 | 0 | 0 | 167 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 168 |
| Total | 0 | 632 | 0 | 5 | 637 | 9 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 646 |

*** BREAK ***

| 03:00 PM | 0 | 233 | 0 | 2 | 235 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 239 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 03:15 PM | 0 | 236 | 0 | 0 | 236 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 240 |
| 03:30 PM | 0 | 219 | 0 | 1 | 220 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 224 |
| 03:45 PM | 0 | 238 | 0 | 1 | 239 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 240 |
| Total | 0 | 926 | 0 | 4 | 930 | 13 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 943 |
| 04:00 PM | 0 | 253 | 0 | 1 | 254 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 258 |
| 04:15 PM | 0 | 262 | 0 | 1 | 263 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 267 |
| 04:30 PM | 0 | 279 | 0 | 1 | 280 | 9 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 289 |
| 04:45 PM | 0 | 239 | 0 | 3 | 242 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 246 |
| Total | 0 | 1033 | 0 | 6 | 1039 | 21 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1060 |
| 05:00 PM | 0 | 276 | 0 | 1 | 277 | 8 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 285 |
| 05:15 PM | 0 | 277 | 0 | 1 | 278 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 281 |
| 05:30 PM | 0 | 236 | 0 | 3 | 239 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 239 |
| 05:45 PM | 0 | 204 | 0 | 2 | 206 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 210 |
| Total | 0 | 993 | 0 | 7 | 1000 | 15 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1015 |
| Grand Total | 0 | 4674 | 0 | 25 | 4699 | 65 | 0 | 0 | 0 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4764 |
| Apprch \% | 0 | 99.5 | 0 | 0.5 |  | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| Total \% | 0 | 98.1 | 0 | 0.5 | 98.6 | 1.4 | 0 | 0 | 0 | 1.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |

# SOUTHERNOREGON <br> TRANSPORTATION ENGINEERING 

## Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: 101 Southbound
East-West: Fir Street
Weather: Overcast
Veh Type: All Vehicles

File Name : FirSt-101SB
Site Code : 00000004
Start Date : 4/11/2018
Page No : 2

|  | 101 SB From North |  |  |  |  | Fir Street From East |  |  |  |  | From South |  |  |  |  | From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Left | Thru | Right | Peds | App. Total | Left | Thr u | Rig ht | Ped s | App. <br> Total | Left | Thr u | Rig ht | $\begin{array}{r} \text { Ped } \\ \mathrm{S} \end{array}$ | App. <br> Total | Left | Thr <br> u | Rig ht | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Int. <br> Total |

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 156 | 0 | 0 | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 183 | 0 | 1 | 184 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 235 | 0 | 2 | 237 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 167 | 0 | 3 | 170 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 741 | 0 | 6 | 747 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 0 | 99.2 | 0 | 0.8 |  | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |
| PHF | . 000 | . 788 | . 000 | . 500 | . 788 | . 250 | . 000 | . 000 | . 000 | . 250 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 |



# SOUTHERNOREGON <br> TRANSPORTATION ENGINEERING 

## Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: 101 Southbound
East-West: Fir Street
Weather: Overcast
Veh Type: All Vehicles

File Name : FirSt-101SB
Site Code : 00000004
Start Date : 4/11/2018
Page No : 3

|  | 101 SB <br> From North |  |  |  |  | Fir Street From East |  |  |  |  | From South |  |  |  |  | From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Left | Thru | Right | Peds | App. Total | Left | Thr u | Rig ht | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Left | Thr u | $\begin{array}{r} \text { Rig } \\ \mathrm{ht} \end{array}$ | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \end{array}$ | $\begin{array}{r} \text { Rig } \\ \text { ht } \end{array}$ | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Int. Total |

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 279 | 0 | 1 | 280 | 9 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 239 | 0 | 3 | 242 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 276 | 0 | 1 | 277 | 8 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 277 | 0 | 1 | 278 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 1071 | 0 | 6 | 1077 | 24 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 0 | 99.4 | 0 | 0.6 |  | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |
| PHF | 000 | . 960 | 000 | 500 | 962 | 667 | 000 | 000 | 000 | . 667 | . 000 | 000 | 000 | 000 | 000 | . 000 | 000 | 000 | 000 | 00 |



## US 101 (NB) \& Fir St

## SOUTHERNOREGON

TRANSPORTATION ENGINEERING

## Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: 101 Northbound
East-West: Fir Street
Weather: Overcast
Veh Type: All Vehicles

File Name : FirSt-101NB
Site Code : 00000006
Start Date : 4/11/2018
Page No : 1

Groups Printed- Unshifted

|  | From North |  |  |  |  | From East |  |  |  |  | 101 NB From South |  |  |  |  | Fir Street From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Toal | Left | Thru | Right | Peds | App. Toal | Left | Thru | Right | Peds | App. Toal | Left | Thru | Right | Peds | App. Toal | Int. Total |
| 06:00 AM | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 60 | 0 | 0 | 61 | 0 | 0 | 0 | 0 | 0 | 67 |
| 06:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 99 | 0 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 99 |
| 06:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 106 | 0 | 0 | 107 | 0 | 0 | 0 | 0 | 0 | 107 |
| 06:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 148 | 0 | 0 | 149 | 0 | 0 | 0 | 0 | 0 | 149 |
| Total | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 3 | 413 | 0 | 0 | 416 | 0 | 0 | 0 | 0 | 0 | 422 |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 146 | 0 | 0 | 147 | 0 | 0 | 0 | 0 | 0 | 147 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 211 | 0 | 0 | 211 | 0 | 0 | 0 | 0 | 0 | 211 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 214 | 0 | 0 | 214 | 0 | 0 | 0 | 0 | 0 | 214 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 265 | 0 | 0 | 265 | 0 | 0 | 0 | 0 | 0 | 265 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 836 | 0 | 0 | 837 | 0 | 0 | 0 | 0 | 0 | 837 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 216 | 0 | 0 | 217 | 0 | 0 | 0 | 0 | 0 | 217 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 199 | 0 | 0 | 202 | 0 | 0 | 0 | 0 | 0 | 202 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 245 | 0 | 0 | 248 | 0 | 0 | 0 | 0 | 0 | 248 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 212 | 0 | 0 | 213 | 0 | 0 | 0 | 1 | 1 | 214 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 872 | 0 | 0 | 880 | 0 | 0 | 0 | 1 | 1 | 881 |

*** BREAK ***

| 03:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 222 | 0 | 0 | 226 | 0 | 0 | 0 | 0 | 0 | 226 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 03:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 250 | 0 | 0 | 253 | 0 | 0 | 0 | 0 | 0 | 253 |
| 03:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 257 | 0 | 0 | 261 | 0 | 0 | 0 | 0 | 0 | 261 |
| 03:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 235 | 0 | 0 | 236 | 0 | 0 | 0 | 0 | 0 | 236 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 964 | 0 | 0 | 976 | 0 | 0 | 0 | 0 | 0 | 976 |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 232 | 0 | 0 | 236 | 0 | 0 | 0 | 0 | 0 | 236 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 209 | 0 | 0 | 212 | 0 | 0 | 0 | 0 | 0 | 212 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 238 | 0 | 0 | 246 | 0 | 0 | 0 | 0 | 0 | 246 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 257 | 0 | 0 | 261 | 0 | 0 | 0 | 0 | 0 | 261 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 936 | 0 | 0 | 955 | 0 | 0 | 0 | 0 | 0 | 955 |


| 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $05: 00 \mathrm{PM}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 269 | 0 | 0 | 273 | 0 | 0 | 0 | 0 | 0 | 273 |
| $05: 15 \mathrm{PM}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 248 | 0 | 0 | 251 | 0 | 0 | 0 | 0 | 0 | 251 |
| $05: 30 \mathrm{PM}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 240 | 0 | 0 | 240 | 0 | 0 | 0 | 0 | 0 | 240 |
| $05: 45 \mathrm{PM}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 194 | 0 | 0 | 196 | 0 | 0 | 0 | 0 | 0 | 196 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 951 | 0 | 0 | 960 | 0 | 0 | 0 | 0 | 0 | 960 |


| Grand Total | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 52 | 4972 | 0 | 0 | 5024 | 0 | 0 | 0 | 1 | 1 | 5031 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Apprch \% | 0 | 100 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 1 | 99 | 0 | 0 |  | 0 | 0 | 0 | 100 |  |  |

# SOUTHERNOREGON <br> TRANSPORTATION ENGINEERING 

## Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: 101 Northbound
East-West: Fir Street
Weather: Overcast
Veh Type: All Vehicles

File Name : FirSt-101NB
Site Code : 00000006
Start Date : 4/11/2018
Page No : 2

|  | From North |  |  |  |  | From East |  |  |  |  | 101 NB From South |  |  |  |  | Fir Street From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Toal | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \\ \hline \end{array}$ | $\begin{gathered} \text { Rig } \\ \text { ht } \\ \hline \end{gathered}$ | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. Total | Left | $\begin{array}{r} \mathrm{Thr} \\ \mathrm{u} \\ \hline \end{array}$ | $\begin{gathered} \text { Rig } \\ \text { ht } \end{gathered}$ | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. Total | Left | $\begin{array}{r} \mathrm{Thr} \\ \mathrm{u} \end{array}$ | $\begin{gathered} \text { Rig } \\ \mathrm{ht} \end{gathered}$ | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | $\begin{array}{r} \text { Int. } \\ \text { Total } \end{array}$ |

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 211 | 0 | 0 | 211 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 214 | 0 | 0 | 214 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 265 | 0 | 0 | 265 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 216 | 0 | 0 | 217 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 906 | 0 | 0 | 907 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0.1 | 99.9 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |
| PHF | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 250 | . 855 | . 000 | . 000 | . 856 | . 000 | . 000 | . 000 | . 000 | . 000 |



# SOUTHERNOREGON <br> TRANSPORTATION ENGINEERING 

## Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: 101 Northbound
East-West: Fir Street
Weather: Overcast
Veh Type: All Vehicles

File Name : FirSt-101NB
Site Code : 00000006
Start Date : 4/11/2018
Page No : 3

|  | From North |  |  |  |  | From East |  |  |  |  | 101 NB From South |  |  |  |  | Fir Street From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Left | Thru | Right | Peds | App. Total | Left | Thr u | Rig ht | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Left | Thr u | Rig ht | Ped $\mathrm{s}$ | App. <br> Total | Left | Thr u | Rig | Ped s | App. <br> Total | $\begin{aligned} & \text { Int. } \\ & \text { Total } \end{aligned}$ |

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 238 | 0 | 0 | 246 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 257 | 0 | 0 | 261 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 269 | 0 | 0 | 273 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 248 | 0 | 0 | 251 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 1012 | 0 | 0 | 1031 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 1.8 | 98.2 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |
| PHF | . 000 | 000 | 000 | 000 | . 000 | . 000 | 000 | 000 | 000 | . 000 | . 594 | . 941 | 000 | 000 | . 944 | . 000 | 000 | 000 | 000 | 000 |



## US 101 \& Fir (turn lane to <br> Front)

## SOUTHERNOREGON

TRANSPORTATION ENGINEERING

## Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: 101 Northbound
East-West: Front Street
Weather: Overcast
Veh Type: All Vehicles

File Name : 101NB-Front
Site Code : 00000005
Start Date : 4/11/2018
Page No : 1

|  | From North |  |  |  |  | Front St From East |  |  |  |  | 101 NB From South |  |  |  |  | From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| 06:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 0 | 0 | 58 | 0 | 0 | 0 | 0 | 0 | 58 |
| 06:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 101 | 0 | 0 | 101 | 0 | 0 | 0 | 0 | 0 | 101 |
| 06:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 105 | 0 | 0 | 105 | 0 | 0 | 0 | 0 | 0 | 106 |
| 06:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 151 | 1 | 0 | 152 | 0 | 0 | 0 | 0 | 0 | 152 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 415 | 1 | 0 | 416 | 0 | 0 | 0 | 0 | 0 | 417 |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 147 | 0 | 0 | 147 | 0 | 0 | 0 | 0 | 0 | 147 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 212 | 0 | 0 | 212 | 0 | 0 | 0 | 0 | 0 | 212 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 226 | 1 | 0 | 227 | 0 | 0 | 0 | 0 | 0 | 227 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 258 | 0 | 0 | 258 | 0 | 0 | 0 | 0 | 0 | 258 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 843 | 1 | 0 | 844 | 0 | 0 | 0 | 0 | 0 | 844 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 214 | 0 | 0 | 214 | 0 | 0 | 0 | 0 | 0 | 214 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 195 | 1 | 0 | 196 | 0 | 0 | 0 | 0 | 0 | 196 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 244 | 2 | 0 | 246 | 0 | 0 | 0 | 0 | 0 | 247 |
| 08:45 AM | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 219 | 4 | 0 | 223 | 0 | 0 | 0 | 0 | 0 | 224 |
| Total | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 872 | 7 | 0 | 879 | 0 | 0 | 0 | 0 | 0 | 881 |

*** BREAK ***

| 03:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 230 | 1 | 0 | 231 | 0 | 0 | 0 | 0 | 0 | 233 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 03:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 241 | 2 | 0 | 243 | 0 | 0 | 0 | 0 | 0 | 243 |
| 03:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 251 | 1 | 0 | 252 | 0 | 0 | 0 | 0 | 0 | 252 |
| 03:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 230 | 1 | 0 | 231 | 0 | 0 | 0 | 0 | 0 | 232 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 952 | 5 | 0 | 957 | 0 | 0 | 0 | 0 | 0 | 960 |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 237 | 0 | 0 | 237 | 0 | 0 | 0 | 0 | 0 | 237 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 214 | 1 | 0 | 215 | 0 | 0 | 0 | 0 | 0 | 215 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 243 | 0 | 0 | 243 | 0 | 0 | 0 | 0 | 0 | 244 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 257 | 1 | 0 | 258 | 0 | 0 | 0 | 0 | 0 | 261 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 951 | 2 | 0 | 953 | 0 | 0 | 0 | 0 | 0 | 957 |


| $05: 00 ~ P M$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 271 | 1 | 0 | 272 | 0 | 0 | 0 | 0 | 0 | 273 |
| ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $05: 15 ~ P M$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 249 | 1 | 0 | 250 | 0 | 0 | 0 | 0 | 0 | 250 |
| $05: 30 ~ P M ~$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 241 | 0 | 0 | 241 | 0 | 0 | 0 | 0 | 0 | 242 |
| $05: 45 ~ P M$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 1 | 0 | 201 | 0 | 0 | 0 | 0 | 0 | 201 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 961 | 3 | 0 | 964 | 0 | 0 | 0 | 0 | 0 | 966 |


| Grand Total | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 11 | 0 | 11 | 0 | 4994 | 19 | 0 | 5013 | 0 | 0 | 0 | 0 | 0 | 5025 |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Apprch \% | 0 | 0 | 0 | 100 |  | 0 | 0 | 100 | 0 |  | 0 | 99.6 | 0.4 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |

# SOUTHERNOREGON <br> TRANSPORTATION ENGINEERING 

## Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: 101 Northbound
East-West: Front Street
Weather: Overcast
Veh Type: All Vehicles

File Name : 101NB-Front
Site Code : 00000005
Start Date : 4/11/2018
Page No : 2

|  | From North |  |  |  |  | Front St <br> From East |  |  |  |  | 101 NB From South |  |  |  |  | From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thr <br> u | Rig ht | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Left | Thr u | Rig ht | Ped | App. <br> Total | Left | Thr u | Rig ht | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | $\begin{aligned} & \text { Int. } \\ & \text { Total } \end{aligned}$ |

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 212 | 0 | 0 | 212 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 226 | 1 | 0 | 227 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 258 | 0 | 0 | 258 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 214 | 0 | 0 | 214 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 910 | 1 | 0 | 911 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 99.9 | 0.1 | 0 |  | 0 | 0 | 0 | 0 |  |
| PHF | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 882 | . 250 | . 000 | . 883 | . 000 | . 000 | . 000 | . 000 | . 000 |



# SOUTHERNOREGON <br> TRANSPORTATION ENGINEERING 

## Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: 101 Northbound
East-West: Front Street
Weather: Overcast
Veh Type: All Vehicles

File Name : 101NB-Front
Site Code : 00000005
Start Date : 4/11/2018
Page No : 3

|  | From North |  |  |  |  | Front St From East |  |  |  |  | 101 NB From South |  |  |  |  | From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Left | Thru | Right | Peds | App. Total | Left | Thr u | $\begin{array}{r} \text { Rig } \\ \text { ht } \end{array}$ | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \\ \hline \end{array}$ | Rig ht | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \end{array}$ | Rig ht | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Int. <br> Total |

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 243 | 0 | 0 | 243 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 257 | 1 | 0 | 258 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 271 | 1 | 0 | 272 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 249 | 1 | 0 | 250 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 | 1020 | 3 | 0 | 1023 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 0 | 0 | 0 | 0 |  | 0 | 0 | 100 | 0 |  | 0 | 99.7 | 0.3 | 0 |  | 0 | 0 | 0 | 0 |  |
| PHF | . 000 | 000 | 000 | 00 | 00 | . 000 | 00 | 417 | 00 | 417 | . 000 | . 941 | 750 | 0 | 940 | . 000 | 00 | 00 |  | 00 |



## Front St \& Fir (turn lane to US 101)

## SOUTHERNOREGON

TRANSPORTATION ENGINEERING

## Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: Front Street
East-West: Front Street
Weather: Overcast / 55 deg
Veh Type: All Vehicles

File Name : FrontSt-Front
Site Code : 00000007
Start Date : 4/11/2018
Page No :1

Groups Printed- Unshifted

|  | Front St From North |  |  |  |  | From East |  |  |  |  | Front St From South |  |  |  |  | Front St From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | Apo. Toal | Left | Thru | Right | Peds | App. Toal | Left | Thru | Right | Peds | App. Toal | Left | Thru | Right | Peds | ${ }_{\text {App. Toalal }}$ | Int. Total |
| 06:00 AM | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 06:15 AM | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 06:30 AM | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 06:45 AM | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 4 |
| Total | 0 | 6 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 9 |


| 07:00 AM | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 AM | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 07:30 AM | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 7 |
| 07:45 AM | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Total | 0 | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 15 |


| 08:00 AM | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :--- | :--- | :--- | :--- | :--- |
| $08: 15 \mathrm{AM}$ | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 5 |
| $08: 30 \mathrm{AM}$ | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 2 | 9 |
| $08: 45 \mathrm{AM}$ | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 4 | 0 | 4 | 9 |
| Total | 0 | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 7 | 0 | 7 | 25 |

*** BREAK ***

| $03: 00 ~ P M$ | 0 | 4 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 7 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :--- | :--- | :--- | :--- | :--- |
| $03: 15 \mathrm{PM}$ | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 2 | 5 |
| $03: 30 \mathrm{PM}$ | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 |
| $03: 45 \mathrm{PM}$ | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 4 |
| Total | 0 | 9 | 1 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 4 | 2 | 0 | 3 | 0 | 5 | 19 |


| $04: 00 \mathrm{PM}$ | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :--- | :--- | :--- | :--- | :--- | :--- |
| $04: 15 \mathrm{PM}$ | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 6 |
| $04: 30 \mathrm{PM}$ | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| $04: 45 \mathrm{PM}$ | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 1 | 9 |
| Total | 0 | 9 | 1 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 0 | 0 | 8 | 1 | 0 | 1 | 0 | 2 | 20 |


| $05: 00 \mathrm{PM}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 2 |
| ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $05: 15 \mathrm{PM}$ | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 |
| $05: 30 \mathrm{PM}$ | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| $05: 45 \mathrm{PM}$ | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 |
| Total | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 0 | 3 | 9 |


| Grand Total | 0 | 56 | 3 | 0 | 59 | 0 | 0 | 0 | 0 | 0 | 9 | 10 | 0 | 0 | 19 | 5 | 0 | 14 | 0 | 19 | 97 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Apprch \% | 0 | 94.9 | 5.1 | 0 |  | 0 | 0 | 0 | 0 |  | 47.4 | 52.6 | 0 | 0 |  | 26.3 | 0 | 73.7 | 0 |  |  |
| Total $\%$ | 0 | 57.7 | 3.1 | 0 | 60.8 | 0 | 0 | 0 | 0 | 0 | 9.3 | 10.3 | 0 | 0 | 19.6 | 5.2 | 0 | 14.4 | 0 | 19.6 |  |

# SOUTHERNOREGON <br> TRANSPORTATION ENGINEERING 

## Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: Front Street
East-West: Front Street
Weather: Overcast / 55 deg
Veh Type: All Vehicles

File Name : FrontSt-Front
Site Code :00000007
Start Date : 4/11/2018
Page No :2

|  | Front St From North |  |  |  |  | From East |  |  |  |  | Front St From South |  |  |  |  | Front St From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Left | Thru | Right | Peds | App. Toala | Left | $\begin{array}{r} \mathrm{Thr} \\ \mathrm{u} \\ \hline \end{array}$ | $\begin{gathered} \text { Rig } \\ \text { ht } \\ \hline \end{gathered}$ | $\begin{array}{r} \hline \text { Ped } \\ \mathrm{s} \\ \hline \end{array}$ | App. <br> Total | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \\ \hline \end{array}$ | $\begin{array}{r} \mathrm{Rig} \\ \mathrm{ht} \\ \hline \end{array}$ | Ped | App. Total | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \\ \hline \end{array}$ | $\begin{array}{r} \mathrm{Rig} \\ \mathrm{ht} \end{array}$ | Ped | App. Total | Int. |

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| +30 mins. | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| \% App. Total | 0 | 100 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 100 | 0 |  |
| PHF | . 000 | . 542 | . 000 | . 000 | . 542 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 250 | . 000 | . 250 |



# SOUTHERNOREGON <br> TRANSPORTATION ENGINEERING 

## Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: Front Street
East-West: Front Street
Weather: Overcast / 55 deg
Veh Type: All Vehicles

File Name : FrontSt-Front
Site Code :00000007
Start Date : 4/11/2018
Page No : 3

|  | Front St From North |  |  |  |  | From East |  |  |  |  | Front St From South |  |  |  |  | Front St From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Left | Thru | Right | Peds | App. Total | Left | Thr <br> u | Rig ht | Ped | App. <br> Total | Left | Thr u | Rig ht | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \\ \hline \end{array}$ | Rig ht | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Int. <br> Total |

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 1 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| +45 mins. | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Total Volume | 0 | 6 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 0 | 0 | 7 | 2 | 0 | 1 | 0 | 3 |
| \% App. Total | 0 | 85.7 | 14.3 | 0 |  | 0 | 0 | 0 | 0 |  | 57.1 | 42.9 | 0 | 0 |  | 66.7 | 0 | 33.3 | 0 |  |



## US 101 (NB) \& Market

## SOUTHERNOREGON

TRANSPORTATION ENGINEERING

## Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: US 101 NB
East-West: Market Street / Front Street
Weather: Overcast / 60 deg
Veh Type: All Vehicles

File Name : Market-101NB_rec
Site Code : 00000003
Start Date : 4/10/2018
Page No : 1

|  | From North |  |  |  |  | Front St <br> From East |  |  |  |  | US 101 NB From South |  |  |  |  | Market St From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| 06:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 123 | 1 | 0 | 127 | 2 | 0 | 0 | 0 | 2 | 130 |
| 06:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 2 | 180 | 5 | 0 | 187 | 1 | 0 | 0 | 0 | 1 | 192 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 5 | 5 | 303 | 6 | 0 | 314 | 3 | 0 | 0 | 0 | 3 | 322 |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 5 | 151 | 3 | 0 | 159 | 4 | 1 | 0 | 0 | 5 | 167 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 202 | 5 | 0 | 214 | 4 | 2 | 0 | 0 | 6 | 220 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 264 | 10 | 0 | 277 | 7 | 1 | 0 | 0 | 8 | 286 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 16 | 270 | 9 | 0 | 295 | 10 | 1 | 0 | 0 | 11 | 309 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 31 | 887 | 27 | 0 | 945 | 25 | 5 | 0 | 0 | 30 | 982 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 9 | 198 | 3 | 1 | 211 | 6 | 0 | 0 | 0 | 6 | 219 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 203 | 7 | 0 | 213 | 12 | 1 | 0 | 0 | 13 | 227 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 9 | 237 | 3 | 0 | 249 | 10 | 0 | 0 | 0 | 10 | 261 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 4 | 207 | 4 | 0 | 215 | 8 | 2 | 0 | 0 | 10 | 229 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | 1 | 9 | 25 | 845 | 17 | 1 | 888 | 36 | 3 | 0 | 0 | 39 | 936 |
| 09:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 5 | 10 | 183 | 2 | 0 | 195 | 8 | 0 | 0 | 0 | 8 | 208 |
| 09:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 4 | 187 | 5 | 1 | 197 | 10 | 3 | 0 | 0 | 13 | 212 |
| *** BREAK * |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 7 | 14 | 370 | 7 | 1 | 392 | 18 | 3 | 0 | 0 | 21 | 420 |

*** BREAK ***

| $03: 00 ~ P M ~$ | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 2 | 0 | 21 | 6 | 258 | 6 | 1 | 271 | 7 | 1 | 0 | 2 | 10 | 302 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $03: 15 ~ P M$ | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 4 | 10 | 221 | 7 | 0 | 238 | 10 | 0 | 0 | 1 | 11 | 253 |
| $03: 30 ~ P M$ | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 12 | 234 | 4 | 0 | 250 | 15 | 0 | 0 | 0 | 15 | 268 |
| $03: 45 \mathrm{PM}$ | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 0 | 7 | 9 | 238 | 7 | 1 | 255 | 20 | 0 | 0 | 0 | 20 | 282 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 5 | 1 | 35 | 37 | 951 | 24 | 2 | 1014 | 52 | 1 | 0 | 3 | 56 | 1105 |


| $04: 00 ~ P M$ | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | 1 | 13 | 7 | 235 | 6 | 0 | 248 | 17 | 0 | 0 | 0 | 17 | 278 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $04: 15 \mathrm{PM}$ | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 10 | 234 | 9 | 0 | 253 | 12 | 1 | 0 | 0 | 13 | 273 |
| $04: 30$ PM | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 2 | 0 | 16 | 8 | 232 | 1 | 0 | 241 | 15 | 0 | 0 | 0 | 15 | 272 |
| $04: 45$ PM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 0 | 8 | 7 | 253 | 4 | 1 | 265 | 11 | 0 | 0 | 0 | 11 | 284 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 8 | 1 | 44 | 32 | 954 | 20 | 1 | 1007 | 55 | 1 | 0 | 0 | 56 | 1107 |


| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 2 | 1 | 13 | 7 | 240 | 2 | 0 | 249 | 15 | 0 | 0 | 3 | 18 | 280 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 2 | 8 | 9 | 256 | 5 | 1 | 271 | 4 | 0 | 0 | 2 | 6 | 285 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 5 | 5 | 197 | 0 | 2 | 204 | 11 | 0 | 0 | 1 | 12 | 221 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 6 | 6 | 194 | 1 | 2 | 203 | 5 | 1 | 0 | 1 | 7 | 216 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 4 | 4 | 32 | 27 | 887 | 8 | 5 | 927 | 35 | 1 | 0 | 7 | 43 | 1002 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 110 | 22 | 7 | 139 | 171 | 5197 | 109 | 10 | 5487 | 224 | 14 | 0 | 10 | 248 | 5874 |
| Apprch \% | 0 | 0 | 0 | 0 |  | 0 | 79.1 | 15.8 | 5 |  | 3.1 | 94.7 | 2 | 0.2 |  | 90.3 | 5.6 | 0 | 4 |  |  |
| Total \% | 0 | 0 | 0 | 0 | 0 | 0 | 1.9 | 0.4 | 0.1 | 2.4 | 2.9 | 88.5 | 1.9 | 0.2 | 93.4 | 3.8 | 0.2 | 0 | 0.2 | 4.2 |  |

# SOUTHERNOREGON <br> TRANSPORTATION ENGINEERING 

Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: US 101 NB
East-West: Market Street / Front Street
Weather: Overcast / 60 deg
Veh Type: All Vehicles

File Name : Market-101NB_rec
Site Code : 00000003
Start Date : 4/10/2018
Page No : 2

|  | From North |  |  |  |  | Front St From East |  |  |  |  | US 101 NB From South |  |  |  |  | Market St From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Left | Thru | Right | Peds | App. Toal | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \\ \hline \end{array}$ | $\begin{gathered} \text { Rig } \\ \text { ht } \\ \hline \end{gathered}$ | Ped | App. Total | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \\ \hline \end{array}$ | $\begin{gathered} \text { Rig } \\ \text { ht } \\ \hline \end{gathered}$ | $\begin{array}{r} \hline \text { Ped } \\ \mathrm{s} \\ \hline \end{array}$ | App. Total | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \\ \hline \end{array}$ | $\begin{gathered} \text { Rig } \\ \mathrm{ht} \\ \hline \end{gathered}$ | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. Total | Int. Total |

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  | 07:15 AM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 202 | 5 | 0 | 214 | 4 | 2 | 0 | 0 | 6 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 264 | 10 | 0 | 277 | 7 | 1 | 0 | 0 | 8 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 16 | 270 | 9 | 0 | 295 | 10 | 1 | 0 | 0 | 11 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 9 | 198 | 3 | 1 | 211 | 6 | 0 | 0 | 0 | 6 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 6 | 35 | 934 | 27 | 1 | 997 | 27 | 4 | 0 | 0 | 31 |
| \% App. Total | 0 | 0 | 0 | 0 |  | 0 | 83.3 | 16.7 | 0 |  | 3.5 | 93.7 | 2.7 | 0.1 |  | 87.1 | 12.9 | 0 | 0 |  |
| PHF | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 417 | . 250 | . 000 | . 500 | . 547 | . 865 | . 675 | . 250 | . 845 | . 675 | . 500 | . 000 | . 000 | . 705 |



# SOUTHERNOREGON <br> TRANSPORTATION ENGINEERING 

Medford, Oregon 97504 | Kim.parducci@gmail.com | (541) 941-4148 cell

North-South: US 101 NB
East-West: Market Street / Front Street
Weather: Overcast / 60 deg
Veh Type: All Vehicles

File Name : Market-101NB_rec
Site Code : 00000003
Start Date : 4/10/2018
Page No : 3

|  | From North |  |  |  |  | Front St From East |  |  |  |  | US 101 NB From South |  |  |  |  | Market St From West |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Left | Thru | Right | Peds | App. Toala | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \\ \hline \end{array}$ | $\begin{array}{r} \text { Rig } \\ \mathrm{ht} \end{array}$ | $\begin{array}{r} \hline \text { Ped } \\ \mathrm{s} \\ \hline \end{array}$ | App. Total | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \\ \hline \end{array}$ | $\begin{array}{r} \text { Rig } \\ \mathrm{ht} \end{array}$ | Ped | App. Total | Left | $\begin{array}{r} \mathrm{Thr} \\ \mathrm{u} \\ \hline \end{array}$ | $\begin{gathered} \text { Rig } \\ \mathrm{ht} \\ \hline \end{gathered}$ | $\begin{array}{r} \hline \text { Ped } \\ \mathrm{s} \\ \hline \end{array}$ | App. Total | $\begin{gathered} \text { Int. } \\ \text { Total } \end{gathered}$ |

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  | 04:30 PM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 2 | 0 | 16 | 8 | 232 | 1 | 0 | 241 | 15 | 0 | 0 | 0 | 15 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 0 | 8 | 7 | 253 | 4 | 1 | 265 | 11 | 0 | 0 | 0 | 11 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 2 | 1 | 13 | 7 | 240 | 2 | 0 | 249 | 15 | 0 | 0 | 3 | 18 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 2 | 8 | 9 | 256 | 5 | 1 | 271 | 4 | 0 | 0 | 2 | 6 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 7 | 3 | 45 | 31 | 981 | 12 | 2 | 1026 | 45 | 0 | 0 | 5 | 50 |
| \% App. Total | 0 | 0 | 0 | 0 |  | 0 | 77.8 | 15.6 | 6.7 |  | 3 | 95.6 | 1.2 | 0.2 |  | 90 | 0 | 0 | 10 |  |
| PHF | . 000 | 00 | 00 | 00 | 00 | . 000 | . 625 | . 583 | 375 | 703 | . 861 | . 958 | 600 | 500 | 946 | 750 | 00 | 00 | 417 | 694 |



## US 101 (NB) \& Cedar

## Transportation Development Division Transportation System Monitoring Unit Vehicular Volume

Time settings
Date: $3110 / 2020$
Hours: $\quad 2: 00 \mathrm{PM}-6: 00 \mathrm{PM}$ Weather:

## Source

Site Number: 49316
Mile Point: 237.93
Street Number: 009
Vehicle Type: Vehicles
Crossing Flow: Pedestrians

## Source Description

Location Description: OREGON COAST HIGHWAY NO. 9 (US101) at Cedar Ave

County
Coos
City:
Coos Bay



| Vehicular Volume <br> Transportation Development Division |  |  |
| :---: | :---: | :---: |
| Site: 49316 | Date: $3 / 10 / 2020$ |  |
| County: Coos | Hours: $2: 00$ PM-6:00 PM |  |
| City: Coos Bay | Highway \#: 009 |  |
| Milepoint: 237.93 | Location: OREGON COAST HIGHWAY NO. |  |
| Count Number: | Weather: |  |


| From North | 0 |
| :--- | ---: |
| North to $N$ | 0 |
| North to NE | 0 |
| North to E | 0 |
| North to SE | 0 |
| North to S | 0 |
| North to SW | 0 |
| North to W | 0 |
| North to NW | 0 |
| To North | 3992 |
|  |  |
| From NE | 0 |
| NE to N | 0 |
| NE to NE | 0 |
| NE to E | 0 |
| NE to SE | 0 |
| NE to S | 0 |
| NE to SW | 0 |
| NE to W | 0 |
| NE to NW | 0 |
| To NE | 0 |
|  |  |
| From East | 18 |
| East to N | 18 |
| East to NE | 0 |
| East to E | 0 |
| East to SE | 0 |
| East to S | 0 |
| East to SW | 0 |
| East to W | 0 |
| East to NW | 0 |
| To East |  |


| From SE | 0 |
| :--- | :--- |
| SE to $N$ | 0 |
| SE to NE | 0 |
| SE to E | 0 |
| SE to SE | 0 |
| SE to S | 0 |
| SE to SW | 0 |
| SE to W | 0 |
| SE to NW | 0 |
| To $S E$ | 0 |


| From South | 3978 |
| :--- | ---: |
| South to N | 3962 |
| South to NE | 0 |
| South to E | 13 |
| South to SE | 0 |
| South to S | 0 |
| South to SW | 0 |
| South to W | 3 |
| South to NW | 0 |
| To South | 0 |


| From SW | 0 |
| :--- | :--- |
| SW to N | 0 |
| SW to NE | 0 |
| SW to E | 0 |
| SW to SE | 0 |
| SW to S | 0 |
| SW to SW | 0 |
| SW to W | 0 |
| SW to NW | 0 |
| To SW | 0 |


| From West | 15 |
| :--- | ---: |
| West to N | 12 |
| West to NE | 0 |
| West to E | 3 |
| West to SE | 0 |
| West to S | 0 |
| West to SW | 0 |
| West to W | 0 |
| West to NW | 0 |
| To West | 3 |


| From NW | 0 |
| :--- | :--- |
| NW to N | 0 |
| NW to NE | 0 |
| NW to E | 0 |
| NW to SE | 0 |
| NW to S | 0 |
| NW to SW | 0 |
| NW to W | 0 |
| NW to NW | 0 |
| To NW | 0 |

## Summary Of Traffic Count

## Transportation Development Division

Site: 49316
County: Coos
City: Coos Bay

Milepoint: 237.93
Count Number:

> Date: 3/10/2020

Hours: 2:00 PM-6:00 PM
Highway \#: 009
OREGON COAST HIGHWAY
Location: NO. 9 (US101) at Cedar Ave
Weather:

| Time of Day | Total Volume | East and West | \% of <br> Total | South and North | \% of <br> Total |  | Entering Volumes |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | East | South | West |
| 14:00 | 249 | 2 | 0.8 | 247 | 99.2 |  | 2 | 247 | 0 |
| 14:15 | 235 | 0 | 0 | 235 | 100 |  | 0 | 235 | 0 |
| 14:30 | 227 | 1 | 0.4 | 226 | 99.6 |  | 0 | 226 | 1 |
| 14:45 | 268 | 5 | 1.9 | 263 | 98.1 |  | 1 | 263 | 4 |
| 15:00 | 235 | 1 | 0.4 | 234 | 99.6 |  | 1 | 234 | 0 |
| 15:15 | 260 | 2 | 0.8 | 258 | 99.2 |  | 1 | 258 | 1 |
| 15:30 | 260 | 4 | 1.5 | 256 | 98.5 |  | 0 | 256 | 4 |
| 15:45 | 273 | 3 | 1.1 | 270 | 98.9 |  | 3 | 270 | 0 |
| 16:00 | 261 | 2 | 0.8 | 259 | 99.2 |  | 1 | 259 | 1 |
| 16:15 | 263 | 4 | 1.5 | 259 | 98.5 |  | 3 | 259 | 1 |
| 16:30 | 258 | 3 | 1.2 | 255 | 98.8 |  | 1 | 255 | 2 |
| 16:45 | 248 | 1 | 0.4 | 247 | 99.6 |  | 1 | 247 | 0 |
| 17:00 | 273 | 1 | 0.4 | 272 | 99.6 |  | 1 | 272 | 0 |
| 17:15 | 258 | 2 | 0.8 | 256 | 99.2 |  | 1 | 256 | 1 |
| 17:30 | 239 | 1 | 0.4 | 238 | 99.6 |  | 1 | 238 | 0 |
| 17:45 | 204 | 1 | 0.5 | 203 | 99.5 |  | 1 | 203 | 0 |
|  |  |  |  |  |  |  |  |  |  |
| Total Count | 4011 | 33 | 1 | 3978 | 100 |  | 18 | 3978 | 15 |
| 24hr Factor | 1 | 1 |  | 1 |  |  | 1 | 1 | 1 |
| 24hr Volume | 4011 | 33 | 1 | 3978 | 100 |  | 18 | 3978 | 15 |

## Traffic Count Summary Sheet

Transportation Development Division (E-N)


## Traffic Count Summary Sheet

Transportation Development Division (E-W)


## Traffic Count Summary Sheet

Transportation Development Division (S-N)


## Traffic Count Summary Sheet

Transportation Development Division (S-E)


## Traffic Count Summary Sheet

Transportation Development Division (S-W)


## Traffic Count Summary Sheet

Transportation Development Division (W-N)

|  | Site: 49316 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: 00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | REGON | OAST HIG | HWAY NO |  |
| Milepoint: 237.93 Location: (US101) at Cedar Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: Weather: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+ AxI | 4- AxI | 5 AxI | 6+ AxI | 5-AxI | 6 AxI | 7+ AxI |  |  |  |  |
| 14:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 14:45 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| 15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:30 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 7 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 |

## Traffic Count Summary Sheet

Transportation Development Division (W-E)



| Summary Of Pedestrian Count <br> Transportation Development Division |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Site: 49316 <br> County: Coos <br> City: Coos Bay <br> Milepoint: 237.93 Count Number: |  |  |  |  | Date: 3/10/2020 <br> Hours: 2:00 PM-6:00 PM <br> Highway \#: 009 <br> OREGON COAST HIGHWAY <br> Location: NO. 9 (US101) at Cedar Ave Weather: |  |  |  |  |
| Time of Day | Pedestrian (Bike) |  |  |  | Pedestrian (Other) |  |  |  |  |
|  | North | East | South | West | North | East | South | West |  |
| $14: 00$ <br> $14: 15$ <br> $14: 30$ <br> $14: 45$ <br> $15: 00$ <br> $15: 15$ <br> $15: 30$ <br> $15: 45$ <br> $16: 00$ <br> $16: 15$ <br> $16: 30$ <br> $16: 45$ <br> $17: 00$ <br> $17: 15$ <br> $17: 30$ <br> $17: 45$ |  | 1 <br> 1 |  |  |  |  |  | 1 2 |  |
| Total | 0 | 2 | 0 | 0 | 0 | 6 | 0 | 10 |  |

Front St \& Alder

## Transportation Development Division Transportation System Monitoring Unit Vehicular Volume

Time settings
Date: 3/10/2020
Hours: $\quad 2: 00 \mathrm{PM}-6: 00 \mathrm{PM}$
Weather: Clear

## Source Description

Location Description: Front St at Alder Ave County: Coos
City:


## Summary of Traffic Count

Transportation Development Division

Site: 49317
County: Coos
City: Coos Bay

Date: 3/10/2020
Hours: 2:00 PM-6:00 PM
Highway \#: 000
Milepoint:
Location: Front St at Alder Ave
Weather: Clear


| Transportation Development Division |  |
| :---: | :---: |
| Site: 49317 | Date: 3/10/2020 |
| County: Coos | Hours: 2:00 PM-6:00 PM |
| City: Coos Bay | Highway \#: 000 |
| Milepoint: | Location: Front St at Alder Ave |
| Count Number: 1.00 | Weather: Clear |


| From North | 65 | From South | 50 |
| :---: | :---: | :---: | :---: |
| North to N | 0 | South to N | 30 |
| North to NE | 0 | South to NE | 0 |
| North to E | 0 | South to E | 1 |
| North to SE | 0 | South to SE | 0 |
| North to S | 39 | South to S | 0 |
| North to SW | 0 | South to SW | 0 |
| North to W | 26 | South to W | 19 |
| North to NW | 0 | South to NW | 0 |
| To North | 44 | To South | 45 |
| From NE | 0 | From SW | 0 |
| NE to N | 0 | SW to N | 0 |
| NE to NE | 0 | SW to NE | 0 |
| NE to E | 0 | SW to E | 0 |
| NE to SE | 0 | SW to SE | 0 |
| NE to S | 0 | SW to S | 0 |
| NE to SW | 0 | SW to SW | 0 |
| NE to W | 0 | SW to W | 0 |
| NE to NW | 0 | SW to NW | 0 |
| To NE | 0 | To SW | 0 |
| From East | 4 | From West | 21 |
| East to N | 0 | West to N | 14 |
| East to NE | 0 | West to NE | 0 |
| East to E | 0 | West to E | 1 |
| East to SE | 0 | West to SE | 0 |
| East to S | 0 | West to S | 6 |
| East to SW | 0 | West to SW | 0 |
| East to W | 4 | West to W | 0 |
| East to NW | 0 | West to NW | 0 |
| To East | 2 | To West | 49 |
| From SE | 0 | From NW | 0 |
| SE to N | 0 | NW to N | 0 |
| SE to NE | 0 | NW to NE | 0 |
| SE to E | 0 | NW to E | 0 |
| SE to SE | 0 | NW to SE | 0 |
| SE to S | 0 | NW to S | 0 |
| SE to SW | 0 | NW to SW | 0 |
| SE to W | 0 | NW to W | 0 |
| SE to NW | 0 | NW to NW | 0 |
| To SE | 0 | To NW | 0 |

# Summary Of Traffic Count 

## Transportation Development Division



# Traffic Count Summary Sheet 

Transportation Development Division (N-E)

| Site: 49317 Date: 3/10/2020 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: 00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: Location: Front St at Alder Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 |  |  |  |  |  |  |  |  | Weather: Clear |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+ AxI | 4- AxI | 5 AxI | 6+ AxI | 5-AxI | 6 AxI | 7+ AxI |  |  |  |  |
| 14:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Summary Sheet

Transportation Development Division (N-S)


## Traffic Count Summary Sheet

Transportation Development Division (N-W)

| Site: 49317 Date: 3/10/2020 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: 000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: Location: Front St at Alder Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 |  |  |  |  |  |  |  |  | Weather: Clear |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+AxI | 4- AxI | 5 Axl | 6+ AxI | 5-AxI | 6 AxI | 7+ AxI |  |  |  |  |
| 14:00 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 14:15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 14:30 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 |
| 14:45 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 15:00 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 15:15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 15:30 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 15:45 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 16:30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:45 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 17:00 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Total | 15 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 26 | 0 |

# Traffic Count Summary Sheet 

Transportation Development Division (E-N)

| Site: 49317 Date: 3/10/2020 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: 000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: Location: Front St at Alder Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 |  |  |  |  |  |  |  |  | Weather: Clear |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+ AxI | 4- AxI | 5 AxI | 6+ AxI | 5-AxI | 6 AxI | 7+ AxI |  |  |  |  |
| 14:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Summary Sheet

Transportation Development Division (E-S)


## Traffic Count Summary Sheet

Transportation Development Division (E-W)

| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: 00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: Location: Front St at Alder Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 Weather: Clear |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+AxI | 4- AxI | 5 AxI | $6+$ AxI | 5-AxI | 6 AxI | 7+AxI |  |  |  |  |
| 14:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 14:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |

## Traffic Count Summary Sheet

Transportation Development Division (S-N)

| Site: 49317 Date: 3/10/2020 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Site: | 917 |  |  |  |  |  |  | Date: | 0/2020 |  |  |  |
| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: Location: Front St at Alder Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 Weather: Clear |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+AxI | 4- AxI | 5 AxI | 6+ AxI | 5-AxI | 6 AxI | 7+ AxI |  |  |  |  |
| 14:00 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 |
| 14:15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 14:30 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |
| 14:45 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 15:00 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 15:15 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| 15:30 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:15 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 17:00 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 15 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 3 |

## Traffic Count Summary Sheet

Transportation Development Division (S-E)

| Site: 49317 Date: 3/10/2020 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: Location: Front St at Alder Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 |  |  |  |  |  |  |  |  | Weather: Clear |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+ AxI | 4- AxI | 5 AxI | 6+ AxI | 5-AxI | 6 AxI | 7+ AxI |  |  |  |  |
| 14:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |

## Traffic Count Summary Sheet

Transportation Development Division (S-W)


## Traffic Count Summary Sheet

Transportation Development Division (W-N)

| Site: 49317 Date: 3/10/2020 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: Location: Front St at Alder Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 Weather: Clear |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+ AxI | 4- AxI | 5 AxI | 6+ AxI | 5-AxI | 6 AxI | 7+ AxI |  |  |  |  |
| 14:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 14:30 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 14:45 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 15:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 15:15 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 15:30 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 15:45 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 16:00 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 17:15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 10 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 |

## Traffic Count Summary Sheet

Transportation Development Division (W-E)


## Traffic Count Summary Sheet

Transportation Development Division (W-S)

| Site: 49317 Date: 3/10/2020 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: 000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: Location: Front St at Alder Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 |  |  |  |  |  |  |  |  | Weather: Clear |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+AxI | 4- AxI | 5 Axl | 6+ AxI | 5-AxI | 6 AxI | 7+ AxI |  |  |  |  |
| 14:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 14:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 15:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |

## Summary Of Bicycle Count

Transportation Development Division


| Summary Of Pedestrian Count Transportation Development Division |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Site: 49317County: CoosCity: Coos BayMilepoint:Count Number: 1.00 |  |  |  |  | Date: 3/10/2020 <br> Hours: 2:00 PM-6:00 PM <br> Highway \#: 000 <br> Location: Front St at Alder Ave <br> Weather: Clear |  |  |  |  |  |
| Time of | Pedestrian (Bike) |  |  |  | Pedestrian (Other) |  |  |  |  |  |
| Day | North | East | South | West | North | East | South | West |  |  |
| $14: 00$ <br> $14: 15$ <br> $14: 30$ <br> $14: 45$ <br> $15: 00$ <br> $15: 15$ <br> $15: 30$ <br> $15: 45$ <br> $16: 00$ <br> $16: 15$ <br> $16: 30$ <br> $16: 45$ <br> $17: 00$ <br> $17: 15$ <br> $17: 30$ <br> $17: 45$ |  |  |  |  |  | 2 1 1 1 2 1 1 1 | 1 | 1 <br> 2 <br> 1 <br> 3 <br> 1 |  |  |
| Total | 0 | 0 | 0 |  | 6 | 9 | 1 | 8 |  |  |

Front St \& Cedar

## Transportation Development Division Transportation System Monitoring Unit Vehicular Volume

Time settings
Date: $\quad 3 / 10 / 2020$
Hours: $\quad$ 2:00 PM-6:00 PM
Weather: Clear

## Source Description

Location Description: Front St at Cedar Ave County: Coos
City:


## Summary of Traffic Count

Transportation Development Division

Site: 49318
County: Coos
City: Coos Bay

Date: 3/10/2020
Hours: 2:00 PM-6:00 PM
Highway \#: 000
Milepoint:
Location: Front St at Cedar Ave
Weather: Clear


| Transportation Development Division |  |
| :---: | :---: |
| Site: 49318 | Date: 3/10/2020 |
| County: Coos | Hours: 2:00 PM-6:00 PM |
| City: Coos Bay | Highway \#: 000 |
| Milepoint: | Location: Front St at Cedar Ave |
| Count Number: 1.00 | Weather: Clear |


| From North | 38 | From South | 43 |
| :---: | :---: | :---: | :---: |
| North to N | 0 | South to N | 31 |
| North to NE | 0 | South to NE | 0 |
| North to E | 4 | South to E | 1 |
| North to SE | 0 | South to SE | 0 |
| North to S | 33 | South to S | 0 |
| North to SW | 0 | South to SW | 0 |
| North to W | 1 | South to W | 11 |
| North to NW | 0 | South to NW | 0 |
| To North | 36 | To South | 46 |
| From NE | 0 | From SW | 0 |
| NE to N | 0 | SW to N | 0 |
| NE to NE | 0 | SW to NE | 0 |
| NE to E | 0 | SW to E | 0 |
| NE to SE | 0 | SW to SE | 0 |
| NE to S | 0 | SW to S | 0 |
| NE to SW | 0 | SW to SW | 0 |
| NE to W | 0 | SW to W | 0 |
| NE to NW | 0 | SW to NW | 0 |
| To NE | 0 | To SW | 0 |
| From East | 12 | From West | 15 |
| East to N | 3 | West to N | 2 |
| East to NE | 0 | West to NE | 0 |
| East to E | 0 | West to E | 5 |
| East to SE | 0 | West to SE | 0 |
| East to S | 5 | West to S | 8 |
| East to SW | 0 | West to SW | 0 |
| East to W | 4 | West to W | 0 |
| East to NW | 0 | West to NW | 0 |
| To East | 10 | To West | 16 |
| From SE | 0 | From NW | 0 |
| SE to N | 0 | NW to N | 0 |
| SE to NE | 0 | NW to NE | 0 |
| SE to E | 0 | NW to E | 0 |
| SE to SE | 0 | NW to SE | 0 |
| SE to S | 0 | NW to S | 0 |
| SE to SW | 0 | NW to SW | 0 |
| SE to W | 0 | NW to W | 0 |
| SE to NW | 0 | NW to NW | 0 |
| To SE | 0 | To NW | 0 |

# Summary Of Traffic Count 

## Transportation Development Division



# Traffic Count Summary Sheet 

Transportation Development Division (N-E)

| Site: 49318 Date: 3/10/2020 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: Location: Front St at Cedar Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 |  |  |  |  |  |  |  |  | Weather: Clear |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+ AxI | 4- AxI | 5 AxI | 6+ AxI | 5-AxI | 6 AxI | 7+ AxI |  |  |  |  |
| 14:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 15:15 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 15:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 17:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |

## Traffic Count Summary Sheet

Transportation Development Division (N-S)

| Site: 49318 Date: 3/10/2020 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: Location: Front St at Cedar Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 |  |  |  |  |  |  |  |  | Weather: Clear |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+ AxI | 4- AxI | 5 AxI | 6+ AxI | 5-AxI | 6 AxI | 7+ AxI |  |  |  |  |
| 14:00 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 14:15 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 |
| 14:30 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 14:45 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 |
| 15:00 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| 15:15 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 15:30 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 15:45 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 16:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:15 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 16:30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 |
| 16:45 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 19 | 9 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 4 |

## Traffic Count Summary Sheet

Transportation Development Division (N-W)

| Site: 49318 Date: 3/10/2020 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: 000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: Location: Front St at Cedar Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 Weather: Clear |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+AxI | 4- AxI | 5 AxI | 6+AxI | 5-AxI | 6 AxI | 7+AxI |  |  |  |  |
| 14:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |

# Traffic Count Summary Sheet 

Transportation Development Division (E-N)


## Traffic Count Summary Sheet

Transportation Development Division (E-S)

| Site: 49318 Date: 3/10/2020 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: 00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: Location: Front St at Cedar Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 Weather: Clear |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+AxI | 4- AxI | 5 AxI | 6+ AxI | 5-AxI | 6 AxI | 7+AxI |  |  |  |  |
| 14:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Total | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |

## Traffic Count Summary Sheet

Transportation Development Division (E-W)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: 000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: Location: Front St at Cedar Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 Weather: Clear |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+AxI | 4- AxI | 5 Axl | 6+ AxI | 5-AxI | 6 AxI | 7+ AxI |  |  |  |  |
| 14:00 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 14:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Total | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |

## Traffic Count Summary Sheet

Transportation Development Division (S-N)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Site: 49318 <br> Date: 3/10/2020 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: Location: Front St at Cedar Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 Weather: Clear |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+AxI | 4- AxI | 5 AxI | 6+ AxI | 5-AxI | 6 AxI | 7+ AxI |  |  |  |  |
| 14:00 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 |
| 14:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 15:00 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| 15:15 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| 15:30 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 |
| 15:45 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:15 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 16:30 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 17:45 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Total | 16 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 2 |

## Traffic Count Summary Sheet

Transportation Development Division (S-E)

| Site: 49318 Date: 3/10/2020 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| County: Coos <br> Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: Location: Front St at Cedar Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 |  |  |  |  |  |  |  |  | Weather: Clear |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+ AxI | 4- AxI | 5 AxI | 6+ AxI | 5-AxI | 6 AxI | 7+ AxI |  |  |  |  |
| 14:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 14:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |

## Traffic Count Summary Sheet

Transportation Development Division (S-W)


## Traffic Count Summary Sheet

Transportation Development Division (W-N)

| Site: 49318 Date: 3/10/2020 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: Location: Front St at Cedar Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 |  |  |  |  |  |  |  |  | Weather: Clear |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+ AxI | 4- AxI | 5 AxI | 6+ AxI | 5-AxI | 6 AxI | 7+ AxI |  |  |  |  |
| 14:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 14:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |

## Traffic Count Summary Sheet

Transportation Development Division (W-E)

| Site: 49318 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| County: Coos <br> Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: 000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: Location: Front St at Cedar Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 Weather: Clear |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+ AxI | 4-AxI | 5 AxI | 6+AxI | 5-AxI | 6 AxI | 7+AxI |  |  |  |  |
| 14:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 14:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| Total | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |

## Traffic Count Summary Sheet

Transportation Development Division (W-S)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: 000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: Location: Front St at Cedar Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 Weather: Clear |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+AxI | 4- AxI | 5 Axl | 6+ AxI | 5-AxI | 6 AxI | 7+ AxI |  |  |  |  |
| 14:00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 14:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 15:30 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 1 |

## Summary Of Bicycle Count

Transportation Development Division


| Summary Of Pedestrian Count Transportation Development Division |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Site: 49318County: CoosCity: Coos BayMilepoint:Count Number: 1.00 |  |  |  |  |  | Date: 3/10/2020 <br> Hours: 2:00 PM-6:00 PM <br> Highway \#: 000 <br> Location: Front St at Cedar Ave <br> Weather: Clear |  |  |  |
| Time of |  | Pedestria | ( Bike ) |  |  | edestria | (Other) |  |  |
| Day | North | East | South | West | North | East | South | West |  |
| $14: 00$ <br> $14: 15$ <br> $14: 30$ <br> $14: 45$ <br> $15: 00$ <br> $15: 15$ <br> $15: 30$ <br> $15: 45$ <br> $16: 00$ <br> $16: 15$ <br> $16: 30$ <br> $16: 45$ <br> $17: 00$ <br> $17: 15$ <br> $17: 30$ <br> $17: 45$ |  |  |  |  | 2 | 2 2 2 1 5 1 1 | 1 2 | 1 <br> 1 <br> 1 |  |
| Total | 0 | 0 | 0 | 0 | 2 | 13 | 3 | 3 |  |

## US 101 (NB) \& Alder

## Transportation Development Division Transportation System Monitoring Unit Vehicular Volume

Time settings
Date: $3110 / 2020$
Hours: $2: 00 \mathrm{PM}-6: 00 \mathrm{PM}$
Weather: Clear

## Source

Site Number: 49319
Mile Point: 238.03
Street Number: 009
Vehicle Type: Vehicles
Crossing Flow: Pedestrians

## Source Description

Location Description: OREGON COAST HIGHWAY NO. 9 (US101) at Alder Ave

County
Coos
City:
Coos Bay



| Vehicular Volume <br> Transportation Development Division |  |  |
| :---: | :---: | :---: |
| Site: 49319 | Date: $3 / 10 / 2020$ |  |
| County: Coos | Hours: $2: 00$ PM-6:00 PM |  |
| City: Coos Bay | Highway \#: 009 |  |
| Milepoint: 238.03 | Location: OREGON COAST HIGHWAY NO. |  |
| Count Number: 1.00 | Weather: Clear |  |


| From North | 0 | From South | 3949 |
| :---: | :---: | :---: | :---: |
| North to N | 0 | South to N | 3822 |
| North to NE | 0 | South to NE | 0 |
| North to E | 0 | South to E | 91 |
| North to SE | 0 | South to SE | 0 |
| North to S | 0 | South to S | 0 |
| North to SW | 0 | South to SW | 0 |
| North to W | 0 | South to W | 36 |
| North to NW | 0 | South to NW | 0 |
| To North | 3893 | To South | 0 |
| From NE | 0 | From SW | 0 |
| NE to N | 0 | SW to N | 0 |
| NE to NE | 0 | SW to NE | 0 |
| NE to E | 0 | SW to E | 0 |
| NE to SE | 0 | SW to SE | 0 |
| NE to S | 0 | SW to S | 0 |
| NE to SW | 0 | SW to SW | 0 |
| NE to W | 0 | SW to W | 0 |
| NE to NW | 0 | sW to NW | 0 |
| To NE | 0 | To SW | 0 |
| From East | 70 | From West | 71 |
| East to N | 34 | West to N | 37 |
| East to NE | 0 | West to NE | 0 |
| East to E | 0 | West to E | 34 |
| East to SE | 0 | West to SE | 0 |
| East to S | 0 | West to S | 0 |
| East to SW | 0 | West to SW | 0 |
| East to W | 36 | West to W | 0 |
| East to NW | 0 | West to NW | 0 |
| To East | 125 | To West | 72 |
| From SE | 0 | From NW | 0 |
| SE to N | 0 | NW to N | 0 |
| SE to NE | 0 | NW to NE | 0 |
| SE to E | 0 | NW to E | 0 |
| SE to SE | 0 | NW to SE | 0 |
| SE to S | 0 | NW to S | 0 |
| SE to SW | 0 | NW to SW | 0 |
| SE to W | 0 | NW to W | 0 |
| SE to NW | 0 | NW to NW | 0 |
| To SE | 0 | To NW | 0 |

## Summary Of Traffic Count

## Transportation Development Division

| Site: 49319 | Date: $3 / 10 / 2020$ |
| :---: | :---: |
| County: Coos | Hours: 2:00 PM-6:00 PM |
| City: Coos Bay | Highway \#: 009 |
|  | OREGON COAST HIGHWAY |
| Milepoint: 238.03 | Location: NO. 9 (US101) at Alder Ave |
| Number: 1.00 | Weather: Clear |



## Traffic Count Summary Sheet

Transportation Development Division (E-N)


## Traffic Count Summary Sheet

Transportation Development Division (E-W)

| Site: 49319 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| OREGON COAST HIGHWAY NO. 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint: 238.03 Location: (US101) at Alder Ave |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Count Number: 1.00 Weather: Clear |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+AxI | 4- AxI | 5 AxI | 6+AxI | 5-AxI | 6 AxI | 7+ AxI |  |  |  |  |
| 14:00 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 14:15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 14:30 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 0 |
| 14:45 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 |
| 15:00 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| 15:15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 15:30 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 15:45 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 16:00 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 16:15 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 16:30 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 16:45 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 17:00 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 17:15 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Total | 20 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 36 | 0 |

## Traffic Count Summary Sheet

Transportation Development Division (S-N)


## Traffic Count Summary Sheet

Transportation Development Division (S-E)


## Traffic Count Summary Sheet

Transportation Development Division (S-W)


## Traffic Count Summary Sheet

Transportation Development Division (W-N)


## Traffic Count Summary Sheet

Transportation Development Division (W-E)

| Site. 49319 Date. 3/10/2020 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Site: | 319 |  |  |  |  |  |  | Date: | 10/2020 |  |  |  |
| County: Coos Hours: 2:00 PM-6:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Coos Bay Highway \#: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Milepoint. 238.03 UREGON COAST HIGHWAY NO. 9 |  |  |  |  |  |  |  |  |  |  |  |  |  | HWAY NO |  |
|  |  |  |  |  |  |  |  |  |  |  | ocation: | S101) at | Alder Ave |  |  |
| Count Number: 1.00 Weather: Clear |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Time of Day | Car | Lt Truck | Sgl. Unit Truck |  |  | Sgl. Trailer Truck |  |  | Multi Trailer Truck |  |  | Bus | Motorcycle | Vehicles | Bicycle |
|  |  |  | 2 AxI | 3 AxI | 4+AxI | 4- AxI | 5 AxI | 6+AxI | 5-AxI | 6 AxI | 7+ AxI |  |  |  |  |
| 14:00 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 14:15 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| 14:30 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 |
| 14:45 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| 15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 15:30 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| 15:45 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 16:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 16:45 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 17:00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 17:15 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Total | 20 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 34 | 0 |


| Summary Of Bicycle Count <br> Transportation Development Division |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Site: 49319County: CoosCity: Coos BayMilepoint: 238.03Count Number: 1.00 |  |  |  | Date: 3/10/2020 <br> Hours: 2:00 PM-6:00 PM <br> Highway \#: 009 <br> OREGON COAST HIGHWAY <br> Location: NO. 9 (US101) at Alder Ave <br> Weather: Clear |  |  |  |  |  |  |  |  |
| Time of Day | Summary By Movements |  |  |  |  |  |  |  |  | Entering Volumes |  |  |
|  | E-N | E-W | S-N | S-E | s-w | W-N | W-E |  | TOTAL | East | South | West |
| 14:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 15:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Count | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 |
| 24hr Factor | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  | 1 | 1 | 1 | 1 |
| 24 hr Volume | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 |


| Summary Of Pedestrian Count <br> Transportation Development Division |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Site: 49319County: CoosCity: Coos BayMilepoint: 238.03Count Number: 1.00 |  |  |  |  | Date: 3/10/2020 <br> Hours: 2:00 PM-6:00 PM <br> Highway \#: 009 <br> OREGON COAST HIGHWAY <br> Location: NO. 9 (US101) at Alder Ave <br> Weather: Clear |  |  |  |  |
| Time of |  | Pedestria | (Bike) |  |  | edestria | (Other) |  |  |
| Day | North | East | South | West | North | East | South | West |  |
| $14: 00$ <br> $14: 15$ <br> $14: 30$ <br> $14: 45$ <br> $15: 00$ <br> $15: 15$ <br> $15: 30$ <br> $15: 45$ <br> $16: 00$ <br> $16: 15$ <br> $16: 30$ <br> $16: 45$ <br> $17: 00$ <br> $17: 15$ <br> $17: 30$ <br> $17: 45$ |  | 1 |  |  | 1 | 1 <br> 1 <br> 1 | 2 | 1 <br> 1 |  |
| Total | 0 | 1 |  | 0 | 1 | 3 | 2 | 3 |  |


| Summary Of Pedestrian Count <br> Transportation Development Division |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Site: 49319County: CoosCity: Coos BayMilepoint: 238.03Count Number: 1.00 |  |  |  |  | Date: 3/10/2020 <br> Hours: 2:00 PM-6:00 PM <br> Highway \#: 009 <br> OREGON COAST HIGHWAY <br> Location: NO. 9 (US101) at Alder Ave <br> Weather: Clear |  |  |  |  |
| Time of |  | Pedestria | (Bike) |  |  | edestria | (Other) |  |  |
| Day | North | East | South | West | North | East | South | West |  |
| $14: 00$ <br> $14: 15$ <br> $14: 30$ <br> $14: 45$ <br> $15: 00$ <br> $15: 15$ <br> $15: 30$ <br> $15: 45$ <br> $16: 00$ <br> $16: 15$ <br> $16: 30$ <br> $16: 45$ <br> $17: 00$ <br> $17: 15$ <br> $17: 30$ <br> $17: 45$ |  | 1 |  |  | 1 | 1 <br> 1 <br> 1 | 2 | 1 <br> 1 |  |
| Total | 0 | 1 |  | 0 | 1 | 3 | 2 | 3 |  |

## APPENDIX B

## Volume Development Worksheets



|  |  | , |  |  |  |  |  | 2020 |  | aAdt |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ynchro 10 | I Intersection | Movement | [lntio] | Existing Counts <br> 1-Hr Volume PM Peak | $\begin{array}{\|c\|} \hline \text { Existing } \\ \text { Hv } \\ \text { Hount } \end{array}$ | $\begin{gathered} \hline \text { Existing } \\ \\ \text { HV } \\ \% \\ \hline \end{gathered}$ | Base <br>  <br> Year <br> Adjustment <br> Factor | Seasonal Adjustment Factor | 30 DHV <br>  <br> Adjusted <br> 1-Hr Volume <br> PM Peak | Volume Balancing Adjustments | 2020 <br> Balanced Volumes PM Peak | $\begin{aligned} & \text { Growth factor } \\ & 2020-2042 \end{aligned}$ | 2042 NCHRP Unbalanced Future Baseline | $\begin{gathered} 2042 \\ \text { Rounded } \\ \text { Future Baseline } \end{gathered}$ | 2042 <br> Balanced Future Baseline | $\begin{aligned} & \text { Peak } \\ & \text { Ped } \\ & \text { Vol } \end{aligned}$ | $\begin{array}{\|c\|c\|c\|c\|} \hline \text { Peak } \\ \text { Bike } \\ \text { Vol } \\ \hline \end{array}$ | $\underset{\substack{\text { Volume Balancing } \\ \text { Adustm }}}{\text { Vents }}$ | Coos Bay Trip gen | Unbalanced Future volumes 2042 | Balanced future 2042 volumes |
| 5 | 50 | 0.95 | SBR | 50 | 0 | 0 | 0\% | 1.020 | 1.16 | 0 | 0 | 0 | 1.220 | 0 | 0 | 0 |  | NA | 0 | 0 | 0 | 0 |
| 5 | 50 |  | TEV | 50 | 1095 | 0 | \% |  |  | 1295 | 30 | 1325 |  | 1617 | 1615 | 1615 | 6 | 0 | 0 | 30 | 1645 | 1646 |
| 6 | 60 | Fir Street a US 101 northbound/ Front | EBL | 60 | 0 | 0 | 0\% | 1.020 | 1.16 | 0 | 0 | 0 | 1.220 | 0 | 0 | 0 |  | NA | 0 | 0 | 0 | 0 |
| ${ }_{6}^{6}$ | 60 60 | ${ }_{0}^{4 / 112018}$ | ${ }_{\text {EBT }}^{\text {EBT }}$ |  | 0 | 0 | \%\% | 1.020 1.020 | 1.16 1.16 | 0 | 0 | 0 | 1.220 1.220 | 0 | 0 | 0 | 0 | NA NA | 0 | 0 | 0 | 0 |
| 6 | 60 |  |  |  | 0 | 0 |  |  | ${ }^{1.16}$ | 0 | 0 | 0 |  | 0 | 0 | 0 |  |  | 0 | 0 | 0 | 0 |
| 6 | 60 |  | WBt | 60 | 0 | 0 | 0\% | 1.020 | 1.16 | 0 | 0 | 0 | 1.220 | 0 | 0 | 0 | 0 | NA | 0 | 0 | 0 | 0 |
| ${ }_{6}^{6}$ | ${ }_{60}^{60}$ | PM Peak Hor - 4:30 PM-5 |  |  | 0 | NA | \#Valuel | 1.020 | 1.16 | 5 |  | 0 | $\frac{1.220}{1200}$ | 6 | 0 | 5 |  |  | 0 | 10 | 15 |  |
|  | ${ }_{60}^{60}$ | PM Peak Hour Useed: 4.30 PM P.5:30 PM | NBL | 60 | 1020 | $\stackrel{0}{\text { NA }}$ | \#valuel | (1020 | +1.16 | 1205 | ${ }_{10}$ | 1215 | 1.220 <br> 1.220 | ${ }_{1,482}^{0}$ | ${ }_{1480}$ | 1480 | 0 | NA NA | 0 | ${ }_{27}$ | ${ }_{1507}$ | ${ }_{1507}$ |
| 6 | 60 | Volume Dififerenc: 0 | NBR | 60 | 3 | NA | \#VaLUE! | 1.020 | 1.16 | 12 | -5 | 0 | 1.220 | 1, 8 | 0 | , |  | NA | 0 | 15 | 15 | 15 |
| 6 | 60 |  | SBL | 60 | 0 | 0 | \% | 1.202 | 1.16 | 0 | 0 | 0 | 1.220 | 0 | 0 | 0 |  | NA | 0 | 0 | 0 |  |
| ${ }_{6}^{6}$ | ${ }_{60}^{60}$ | PHF: 0.94 | SBT | 60 60 | 0 | 0 | 0\% | 1.020 1.020 | 1.16 <br> 1.16 | 0 | 0 | 0 | 1.220 1.220 | 0 | 0 | 0 | 0 | NA NA | 0 | 0 | 0 | 0 |
| 6 | ${ }_{60}^{60}$ |  | TEV | 60 | 1028 | 0 | 0\% |  |  | 1215 | 0 | 1220 |  | 1488 | 1485 | 1485 | 0 | NA | 0 | 52 | 1537 | 1532 |
| 7 | 70 | Front Steet at Fir Street | EBL |  | 2 |  | \#\#Value! | 1.020 | ${ }^{1.16}$ |  | 0 | 0 | 1.220 |  |  | 0 |  |  | 0 | 15 | 15 | 15 |
| 7 | 70 | 41112018 | ${ }_{\text {EBT }}^{\text {eb }}$ | 70 | ${ }_{0}$ | 0 | 0\% | 1.020 | 1.16 | 0 | 0 | 0 | 1.220 | 0 | 0 | 0 | 0 | NA | 0 | 0 | 0 | 0 |
| 7 | 70 | 6 hr | EER | 70 | 0 | NA | 0\% | 1.020 | 1.16 | 0 | 0 | 0 | 1.220 | 0 | 0 | 0 |  | NA |  |  |  | 0 |
| 7 | 70 |  | WBT | 70 | 0 | 0 | 0\% | 1.020 <br> 1.020 | 1.116 1.16 1 | 0 | 0 | 0 | 1.220 1.220 | 0 | 0 | 0 | 0 | NA | 0 | 0 | 0 | 0 |
| 7 | 70 |  | WBR | 70 | 0 | 0 | 0\% | 1.020 | 1.16 | 0 | 0 |  | 1.220 | 0 | 0 | 0 |  | NA | 0 | 0 |  | 0 |
| 7 | 70 | PM Peak Hour: 12:45 AM-1:45 AM | ${ }^{\text {NBL }}$ | 70 | 4 | NA | \#Value: | 1.020 | 1.16 | 5 | 0 | 5 | 1.220 | 6 | 5 | 5 |  | NA | 0 | 0 | 5 | 5 |
| 7 | 70 | PM Peak Hor Used: : $3: 30 \mathrm{PM}$ P:30 PM | NBT | 70 | 3 | NA | \#VaLUE! | 1.020 | 1.16 | 5 | 0 | 5 | 1.220 | 6 | 5 | 5 | 0 | NA | 0 | 10 | 15 | 15 |
| 7 | 70 | Volume Difference: 3 | NBR | 70 | 0 | 0 | 0\% | 1.020 | 1.16 116 | 0 |  | , | 1.220 | 0 | 0 | 0 |  | NA | 0 | 0 | 0 | 0 |
| 7 | 70 |  | ${ }^{\text {SBL }}$ | 70 | 0 | 0 | 0\% | 1.020 | ${ }^{1.16}$ | 0 | 0 | 0 | 1.220 | 0 | 0 | 0 |  | NA | 0 | 0 | 0 |  |
| 7 | 70 70 | ${ }^{\text {PHFF: }}$ | SBR | 70 | ${ }^{6}$ | N | \#VatuE! | 1.020 1.020 | +1.16 | 5 | ${ }_{0}^{10}$ | ${ }^{15}$ | ${ }_{1.220}^{1.220}$ | 18 | ${ }_{0}^{20}$ | ${ }^{20}$ | 0 | NA NA | 0 | 20 10 | 40 10 | 40 10 |
| 7 | 70 |  | TEV | 70 | 16 | 0 | 0\% |  |  | 15 | 10 | 25 |  | 31 | 30 | 30 | 0 | 0 | 0 | 55 | 85 | 85 |
| ${ }^{8}$ | 80 | Market Ave at US 101 northbound | EBL |  | 45 | NA | \#\#VALUE! | 1.220 | 1.16 | 55 | 0 | 55 | 1.220 | 67 | 65 | 65 |  | NA | 0 | 10 | 75 | 75 |
| 8 | 80 | 41002018 | ${ }^{\text {EBT }}$ | ${ }^{80}$ |  | 0 | \%\% | 1.020 | 1.16 | 0 | 0 | 0 | ${ }^{1.220}$ | 0 |  | 0 | 5 | NA | 0 | 10 | 10 | 10 |
| ${ }_{8}$ | ${ }_{80}^{80}$ | 0 | WEL | 80 | 0 | 0 | $0 \%$ | ${ }_{1}^{1.020}$ | ${ }_{1}^{1.16}$ | 0 | 0 | 0 | ${ }_{1}^{1.220}$ | 0 | 0 | 0 |  | NA | 0 | 0 | 0 | 0 |
| 8 | 80 |  | wbt | ${ }_{80}$ | 35 | NA | \#Value! | 1.220 | 1.16 | 40 | -15 | 25 | 1.220 | 31 | 30 | 35 | 3 | NA | 5 | 20 | 55 | 55 |
| 8 | 80 |  | WBR | 80 | 7 | NA | \#VaLUE! | 1.020 | 1.116 | 10 | 0 | 10 | 1.220 | 12 | 10 | 10 |  | NA | 0 | 0 | 10 | 10 |
| 8 | 80 | PM Peak Hour: 4:30 PM.5:30 PM | NBL |  |  | NA | \#VaLUE: | 1.020 | ${ }^{1.16}$ | ${ }^{35}$ |  | ${ }^{35}$ | 1.220 | ${ }^{43}$ | 45 | 45 |  |  | 0 |  | 45 | 45 |
| 8 | 80 | PM Peak Hor Used: : 430 PM-5:30 PM | NBT | ${ }^{80}$ | ${ }^{981}$ | NA | \#VaLUE: | 1.020 | 1.16 | 1160 | 21 | 1181 | 1.220 | 1.441 | 1440 | 1445 | 2 | NA | 5 | 32 | 1477 | 1477 |
| ${ }_{8}^{8}$ | ${ }_{80}^{80}$ | Volume Difference:0 | NBR |  | 12 | NA | \#VALUE: | 1.020 1020 10 | 1.16 <br> 1.16 | 15 | 0 | 15 | 1.220 1220 | 18 | 20 | 15 |  |  |  |  | 15 | 15 |
| ${ }_{8}$ | ${ }_{80}^{80}$ | PHF: | ${ }_{\text {SBT }}$ | ${ }_{80}^{80}$ | 0 | - | 0\% | $\stackrel{1.020}{1.020}$ | ${ }_{1}^{1.16}$ | 0 | 0 | 0 | ${ }_{1}^{1.220}$ | 0 | 0 | 0 | 0 | NA | 0 | 0 | 0 | 0 |
| 8 | 80 | ${ }^{0.98}$ | SBR | ${ }_{80}$ | 0 | 0 | 0\% | 1.020 | 1.16 | 0 | 0 | 0 | ${ }_{1}^{1.220}$ | 0 | 0 | 0 |  | ${ }_{\text {NA }}$ | 0 | 0 | 0 | 0 |
| 8 | 80 |  | TEV | 80 | 1111 | 0 | 0\% |  |  | 1315 | 6 | 1321 |  | 1612 | 1610 | 1615 | 10 | 0 | 5 | 72 | 1687 | 1687 |
| 9 | 90 | US 101 at Cedar Avenue | EBL |  | ${ }^{2}$ | 0 | \% | 1.000 | 1.26 | 5 | 0 | 5 | 1.220 | 6 | 5 | 5 |  | 0 | 0 |  |  | 5 |
| 9 | 90 | 3/1012020 | EBT | 90 | 1 | 0 | 0\% | 1.000 | 1.26 | 0 | 0 | 0 | 1.220 | 0 | 0 | 0 | 0 | 0 | 0 |  |  | 0 |
| 9 | 90 | 0 | EBR | 90 | 0 | 0 | 0\% | 1.000 | 1.26 | 0 | 0 | 0 | 1.220 | 0 | 0 | 0 |  | 0 | 0 |  |  | 0 |
| 9 | 90 |  | WEL |  | 0 | 0 | 0\% | 1.000 | ${ }^{1.26}$ | 0 | 0 | 0 | ${ }^{12220}$ | 0 | 0 | 0 |  | 0 | 0 |  |  | 0 |
| 9 | ${ }_{90}^{90}$ |  | WBT | 90 90 | 4 | 0 | 0\% | 1.000 1.000 | 1.26 1.26 1 | 5 | 0 | 5 | 1.220 1.220 | ${ }_{6}$ | 5 | 5 | 2 | 0 | 0 |  |  | ${ }_{5}$ |
| ${ }_{9}^{9}$ | ${ }_{90}^{90}$ | PM Peak Hour : $3: 30$ PM-4:30 PM |  |  |  | 0 |  |  |  | 5 |  | 5 |  | 0 | 0 | 5 |  | 0 | 0 |  |  |  |
| 9 | 90 | PM Peak Hour Useed $4: 30 \mathrm{PM}$ P-5:30 PM | NBT | 90 | 1029 | 50 | 5\% | 1.000 | 1.26 | 1295 | -85 | 1210 | 1.220 | 1.476 | 1475 | 1475 | 0 | 0 | 0 |  |  | 1517 |
| 9 | ${ }^{90}$ | Volume Difiference: 23 | NSR | 90 | 1 | 0 | 0\% | 1.000 | 1.26 | 0 | 0 | 0 | 1.220 | 0 | 0 | 0 |  | 0 | 0 |  |  |  |
| 9 | 90 |  | ${ }_{\text {SBL }}^{\text {SBL }}$ |  | 0 | 0 |  | 1.000 | ${ }^{1.26}$ |  |  | 0 |  |  | 0 | 0 |  |  | 0 |  |  | 0 |
| 9 | 90 90 | PHF: 0.95 | SBT | $\begin{aligned} & 90 \\ & 90 \\ & 90 \end{aligned}$ | 0 | 0 | 0\% | 1.000 1.000 | 1.26 <br> 1.26 | 0 | 0 | 0 | 1.220 1.220 | 0 | 0 | 0 | 0 | - | 0 |  |  | 0 |
| 9 | 90 |  | TEV | 90 | 1038 | 50 | 5\% |  |  | 1305 | . 85 | 1220 |  | 1488 | 1485 | 1485 | 2 | 0 | 0 |  |  | 1527 |
| 10 | 100 | NFFont Streetat Alder Avenue |  |  |  |  |  | 1.000 | 1.26 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 100 | 3/1012020 | EBT | 100 | 1 | - | 0\% | 1.000 | 1.26 | 0 | 0 | 0 | 1.220 | 7 | 5 | , | 0 | 0 | 0 |  |  | 0 |
| 10 10 | 100 100 |  | EER | 100 | 1 | 0 | 0\% | 1.000 1.000 | 1.26 1.26 1.26 |  |  |  | 1.220 1.220 |  |  |  |  |  | 0 |  |  |  |
| 10 | 100 |  | WBt | 100 | 3 | - | 0\% | 1.000 | 1.26 |  | - |  | 1.220 | 2 | 0 |  | 5 | 0 | 0 |  |  | 0 |
| 10 | 100 | PM Peak Hour 3:15 PM-4:15 PM | ${ }_{\text {NBL }}$ | 100 | 6 | 0 | 0\% | ${ }_{1}^{1.000}$ | $\stackrel{1.26}{1.26}$ | 10 | 0 | 10 | ${ }_{1}^{1.220}$ | 12 | 10 | 10 |  | 0 | 0 |  |  | 10 |
| 10 | 100 | PM Peak Hour Used: : 3 :30 PM-5:30 PM | NBT | 100 | 5 | , | 0\% | 1.000 | 1.26 | 5 | - | 5 | 1.220 | 6 | 5 | 5 | 0 | 0 | 0 |  |  | 15 |

## Project: Coos Bay TSP

Job\#: $\quad$ ODOTOOOO1006
Subject:
PM Turning Movement Volumes

N-SID Synchro ID Intersection | NBR | 100 |
| :---: | :---: |
| SBL | 100 |
| SBT | 100 |
| SBR | 100 |

| 10 | 100 | Volume Difference: 13 |
| :---: | :---: | :---: |
| 10 | 100 |  |
| 10 | 100 | PHF: |
| ${ }^{10}$ | 100 | 0.65 |
| 10 | 100 |  |
| 11 | 110 | NFFont Street a C Cedar Avenue |
| 11 | 110 | 3/1012020 |
| 11 | 110 | 0 |
| 11 | 110 |  |
| 11 | 110 |  |
| 11 | 110 |  |
| 11 | 110 | PM Peak Hour 3:00 PM-4:00 PM |
| 11 | 110 | PM Peak Hour Used: 4:30 PM-5:30 PM |
| 11 | 110 | Volume Difference: 24 |
| 11 | 110 |  |
| 11 11 | 110 | PHF: |
| $\begin{array}{r}11 \\ 11 \\ \hline\end{array}$ | 110 110 | 0.64 |


| $\begin{aligned} & \text { EBL } \\ & \text { EEB } \\ & \text { EBR } \\ & \hline \end{aligned}$ | $\begin{array}{\|l\|} 1100 \\ 110 \\ 110 \\ \hline \end{array}$ | 1 1 1 | 0 0 0 | $\begin{aligned} & \text { O\% } \\ & 0 \% \\ & 0 \% \\ & \hline \end{aligned}$ | $\begin{aligned} & 1.000 \\ & 1.000 \\ & 1.000 \\ & \hline \end{aligned}$ | 1.26 1.26 1.26 | 0 | 0 0 0 | 0 0 0 | 1.220 1.220 1.220 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WBL | 110 | 1 | 0 | 0\% | 1.000 | 1.26 | 0 | 0 | 0 | 1.220 |
| WBT | 110 | 1 | 0 | 0\% | 1.000 | 1.26 | 0 | 0 | 0 | 1.220 |
| WBR | 110 | 1 | 0 | 0\% | 1.000 | 1.26 | 0 | 0 | 0 | 1.220 |
| NBL | 110 | ${ }^{3}$ | 0 | 0\% | 1.000 | ${ }^{1.26}$ | 5 | 0 | 5 | ${ }^{1.220}$ |
| NBT | 110 | 4 | 0 | 0\% | 1.000 | 1.26 | 5 | 0 | 5 | 1.220 |
| NBR | 110 | 0 | 0 | 0\% | 1.000 | 1.26 | 0 | 0 | 0 | 1.220 |
| SBL | 110 | ${ }^{2}$ | 0 | 0\% | 1.000 | ${ }^{1.26}$ | 5 | -5 | 0 | ${ }^{1.220}$ |
| SBT | 110 | 4 | - | 25\% | 1.000 | 1.26 | 5 | 10 | 15 | 1.220 |
| SBR | 110 | 0 | 0 | 0\% | 1.000 | 1.26 | 0 | 0 | 0 | 1.220 |
| TEV | 110 | 18 | 1 | 6\% |  |  | 20 | 5 | 25 |  | $\left.\begin{array}{|c|c|}2042 \\ \text { NCHRP } \\ \text { Untalaçed } \\ \text { Future Baseline }\end{array}\right)$ | 2042 |  |
| :---: | :---: |
| Eded |  |
| Ealine |  |
| Buture Based |  |
| Faseline |  |



| SOR |  |
| :---: | :---: |
| SBR | 120 |
| TEV | 120 |

## APPENDIX C

## Synchro Worksheets: Existing Operations



LEGEND
$\longrightarrow$ Lane configuration
5
Roundabout

TEV Total Entering Volume

- STOP-Controlled Appraoch

PM Peak Hour Volumes
Existing year (2020)

## EXISTING (2020) SYNCHRO OPERATIONS

Stop Controlled Intersections


| Major/Minor | Minor2 | Minor1 |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :--- |
| Conflicting Flow All | 2069 | 2715 | 708 | 2007 | 2717 | 647 | 1414 | 0 | 0 | 1293 | 0 |
| $\quad$ Stage 1 | 1412 | 1412 | - | 1303 | 1303 | - | - | - | - | - | - |




| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0 |  |  |  |  |  |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | 1 |  |  | - 个 |  |  |
| Traffic Vol, veh/h | 0 | 0 | 20 | 1200 | 0 | 0 |
| Future Vol, veh/h | 0 | 0 | 20 | 1200 | 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 | 16965 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, \% | 0 | 0 | 10 | 6 | 0 | 0 |
| Mvmt Flow | 0 | 0 | 21 | 1277 | 0 | 0 |







| Approach | WB | NB |
| :--- | ---: | ---: |
| HCM Control Delay, s | 13.7 | 0 |
| HCM LOS | B |  |


| Minor Lane/Major Mvmt | NBT | NBRWBLn1 |
| :--- | ---: | ---: |
| Capacity (veh/h) | - | -418 |
| HCM Lane V/C Ratio | - | -0.013 |
| HCM Control Delay (s) | - | -13.7 |
| HCM Lane LOS | - | - |
| HCM 95th \%tile Q(veh) | - | - |
| B | 0 |  |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |









| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |


| Major/Minor <br> Conflicting Flow All | Minor2 | Major1 |  |  | Major2 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 47 | 23 | 23 | 0 | - | 0 |  |
| Stage 1 | 23 | - | - | - | - | - |  |
| Stage 2 | 24 | - | - | - | - | - |  |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - | - |  |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |  |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |  |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - |  |
| Pot Cap-1 Maneuver | 963 | 1054 | 1592 | - | - | - |  |
| Stage 1 | 1000 | - | - | - | - | - |  |
| Stage 2 | 999 | - | - | - | - | - |  |
| Platoon blocked, \% |  |  |  | - | - | - |  |
| Mov Cap-1 Maneuver | 958 | 1054 | 1592 | - | - | - |  |
| Mov Cap-2 Maneuver | 958 | - | - | - | - | - |  |
| Stage 1 | 995 | - | - | - | - | - |  |
| Stage 2 | 999 | - | - | - | - | - |  |
|  |  |  |  |  |  |  |  |
| Approach | EB |  | NB |  | SB |  |  |
| HCM Control Delay, s | 0 |  | 3.6 |  | 0 |  |  |
| HCM LOS | A |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBL | NBT | n1 | SBT | SBR |  |
| Capacity (veh/h) |  | 1592 | - | - | - | - |  |
| HCM Lane V/C Ratio |  | 0.005 | - | - | - | - |  |
| HCM Control Delay (s) |  | 7.3 | 0 | 0 | - | - |  |
| HCM Lane LOS |  | A | A | A | - | - |  |
| HCM 95th \%tile Q(veh) |  | 0 | - | - | - | - |  |




## EXISTING (2020) SYNCHRO OPERATIONS

Signalized Intersections


| INTERSECTION 10 |  |  |  |
| :---: | :---: | :---: | :---: |
| Critical movement | Adjusted flow | Saturated flow | ratio |
| EBL | 17 | 123 | 0.138 |
| NBL | 102 | 1602 | 0.064 |
| SBT | 1290 | 3248 | 0.397 |
|  |  | SUM | 0.599 |


| Cycle length | 95 seconds |
| :--- | ---: |
| LOST TIME | 12 seconds |
| critical v/c ratio | 0.686 |

## APPENDIX D

## Crash Analysis Worksheets



| Aversection Population Type Crash Rate |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Intersection Pop. Type | Sum of <br> Crashes | Sum of 5- <br> year MEV | Avg Crash <br> Rate for Ref <br> Pop. | INT in Pop |
| Rural 3SG | 0 | 0 | 0.0000 | 0 |
| Rural 3ST | 0 | 0 | 0.0000 | 0 |
| Rural 4SG | 0 | 0 | 0.0000 | 0 |
| Rural 4ST | 0 | 0 | 0.0000 | 0 |
| Urban 3ST | 11 | 163 | 0.0673 | 7 |
| Urban 3SG | 8 | 45 | 0.1793 | 1 |
| Urban 4ST | 6 | 46 | 0.1292 | 4 |
| Urban 4SG | 0 | 0 | 0.0000 | 0 |


| Critical Rate Calculation |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Intersection | AADT Entering Intersection | 5-year MEV | Crash Total | Intersection Population Type | Intersection Crash Rate | Reference Population Crash Rate | Critical Rate | Over Critical | 90th \%tile rate |
| Koos Bay Blvd at US 101 | 24,450 | 44.6 | 8 | Urban 3SG | 0.18 | APM Exhibit 4-1 |  |  | 0.509 |
| Ivy St at US 101 | 24,150 | 44.1 | 1 | Urban 3ST | 0.02 | 0.0673 | 0.14 | Under | 0.293 |
| Hemlock/Front at US 101 | 24,425 | 44.6 | 6 | Urban 4ST | 0.13 | APM Exhibit 4-1 |  |  | 0.408 |
| Fir St at US 101 NB | 10,525 | 19.2 | 0 | Urban 3ST | 0.00 | 0.0673 | 0.19 | Under | 0.293 |
| Fir St at US 101 SB | 11,425 | 20.9 | 0 | Urban 3ST | 0.00 | 0.0673 | 0.18 | Under | 0.293 |
| ir St (south) at US 101 NB | 10,525 | 19.2 | 0 | Urban 3ST | 0.00 | 0.0673 | 0.19 | Under | 0.293 |
| Front St at Fir St (south) | 225 | 0.4 | 0 | Urban 4ST | 0.00 | APM Exhibit 4-1 |  |  | 0.408 |
| Market Ave at US 101 NB | 11,400 | 20.8 | 3 | Urban 3ST | 0.14 | 0.0673 | 0.18 | Under | 0.293 |
| US 101 at Cedar Avenue | 10,525 | 19.2 | 0 | Urban 3ST | 0.00 | 0.0673 | 0.19 | Under | 0.293 |
| Front Street at Alder Ave | 575 | 1.0 | 0 | Urban 4ST | 0.00 | APM Exhibit 4-1 |  |  | 0.408 |
| Front Street at Cedar Ave | 225 | 0.4 | 0 | Urban 4ST | 0.00 | APM Exhibit 4-1 |  |  | 0.408 |
| US 101 NB at Alder Ave | 11,000 | 20.1 | 7 | Urban 3ST | 0.35 | 0.0673 | 0.19 | Over | 0.293 |

## APPENDIX E

## Synchro Worksheets: Future Operations



## FUTURE (2042) SYNCHRO OPERATIONS

## Stop Controlled Intersections

| Intersection |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 0.2 |  |  |  |  |  |  |  |  |  |  |  |  |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |  |
| Lane Configurations |  | \$ |  |  | $\uparrow$ |  | 7 | 个 ${ }_{\text {¢ }}$ |  | 7 | 㻢 |  |  |
| Traffic Vol, veh/h | 0 | - | 20 | 0 | , | 0 |  | 1480 | 0 | 0 | 1610 | 5 |  |
| Future Vol, veh/h | 0 | 0 | 20 | 0 | 0 | 0 | 5 | 1480 | 0 | 0 | 1610 | 5 |  |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |  |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |  |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |  |
| Storage Length | - | - | - | - | - | - | 200 | - | - | 200 | - | - |  |
| 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, \% | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 4 | 0 |  |
| Mumt Flow | 0 | 0 | 22 | 0 | 0 | 0 | 5 | 1609 | 0 | 0 | 1750 | 5 |  |



| Intersection |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | :--- |


| Major/Minor $\quad$ N | Minor2 |  | Major1 |  |
| :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 841 | - | 0 | 0 |
| Stage 1 | 0 | - | - | - |
| Stage 2 | 841 | - | - | - |
| Critical Hdwy | 6.8 | - | 4.3 | - |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.8 | - | - | - |
| Follow-up Hdwy | 3.5 | - | 2.3 | - |
| Pot Cap-1 Maneuver | 308 | 0 | - | - |
| Stage 1 | - | 0 | - | - |
| Stage 2 | 388 | 0 | - | - |
| Platoon blocked, \% |  |  |  | - |
| Mov Cap-1 Maneuver | 308 | - | - | - |
| Mov Cap-2 Maneuver | 308 | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | 388 | - | - | - |
|  |  |  |  |  |
| Approach | EB |  | NB |  |
| HCM Control Delay, s | 0 |  |  |  |
| HCM LOS | A |  |  |  |
|  |  |  |  |  |
| Minor Lane/Major Mvmt | nt |  | NBT |  |
| Capacity (veh/h) |  | - | - | - |
| HCM Lane V/C Ratio |  | - | - | - |
| HCM Control Delay (s) |  | - | - | 0 |
| HCM Lane LOS |  | - | - | A |
| HCM 95th \%tile Q(veh) |  | - | - | - |




| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |


| Major/Minor | Minor1 | Major1 |  |  |
| :--- | ---: | ---: | ---: | :--- |
| Conflicting Flow All | - | 810 | 0 | 0 |
| $\quad$ Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | - | 6.9 | - | - |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | - | 3.3 | - | - |
| Pot Cap-1 Maneuver | 0 | 327 | - | - |
| $\quad$ Stage 1 | 0 | - | - | - |
| Stage 2 | 0 | - | - | - |
| Platoon locked, \% |  |  | - | - |
| Mov Cap-1 Maneuver | - | 327 | - | - |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
|  |  |  |  |  |


| Approach | WB | NB |
| :--- | ---: | ---: |
| HCM Control Delay, s | 16.6 | 0 |
| HCM LOS | C |  |


| Minor Lane/Major Mvmt | NBT | NBRWBLn1 |
| :--- | ---: | ---: |
| Capacity (veh/h) | - | -327 |
| HCM Lane V/C Ratio | - | -0.049 |
| HCM Control Delay (s) | - | -16.6 |
| HCM Lane LOS | - | - |
| HCM 95th \%tile Q(veh) | - | $-\quad 0.2$ |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |













## FUTURE (2042) SYNCHRO OPERATIONS

Signalized Intersections


|  | 4 |  | $\cdots$ | 4 | - |  | 4 | $\dagger$ | $\%$ | \% | $\frac{1}{\dagger}$ | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | \& |  |  | \& |  | \% | 中 ${ }^{\text {a }}$ |  | ${ }^{7}$ | 中\% |  |
| Traffic Volume (veh/h) | 10 | 11 | 20 | 56 | 15 | 60 | 34 | 1415 | 53 | 75 | 1550 | 5 |
| Future Volume (veh/h) | 10 | 11 | 20 | 56 | 15 | 60 | 34 | 1415 | 53 | 75 | 1550 | 5 |
| Initial Q $(Q b)$, veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 0.99 | 1.00 |  | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach |  | No |  |  | No |  |  | No |  |  | No |  |
| Adj Sat Flow, veh/h/ln | 1750 | 1750 | 1654 | 1750 | 1750 | 1750 | 1750 | 1682 | 1750 | 1627 | 1695 | 1750 |
| Adj Flow Rate, veh/h | 12 | 13 | 24 | 66 | 18 | 71 | 36 | 1489 | 56 | 79 | 1632 | 5 |
| Peak Hour Factor | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, \% | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 5 | 0 | 9 | 4 | 0 |
| Cap, veh/h | 18 | 19 | 36 | 85 | 23 | 91 | 75 | 1804 | 68 | 115 | 1989 | 6 |
| Arrive On Green | 0.04 | 0.05 | 0.04 | 0.12 | 0.13 | 0.12 | 0.05 | 0.57 | 0.56 | 0.07 | 0.60 | 0.59 |
| Sat Flow, veh/h | 389 | 422 | 779 | 675 | (184) | 726 | 1667 | 3140 | 118 | 1550 | 3294 | 10 |
| Grp Volume(v), veh/h | 49 | 0 | 0 | 155 | 0 | 0 | 36 | 756 | 789 | 79 | 798 | 839 |
| Grp Sat Flow(s),veh/h/ln | 1590 | 0 | 0 | 1586 | 0 | 0 | 1667 | 1598 | 1660 | 1550 | 1611 | 1693 |
| Q Serve(g_s), s | 2.6 | 0.0 | 0.0 | 8.2 | 0.0 | 0.0 | 1.8 | 33.0 | 33.3 | 4.3 | 33.5 | 33.6 |
| Cycle Q Clear(g_c), s | 2.6 | 0.0 | 0.0 | 8.2 | 0.0 | 0.0 | 1.8 | 33.0 | 33.3 | 4.3 | 33.5 | 33.6 |
| Prop In Lane | 0.24 |  | 0.49 | 0.43 |  | 0.46 | 1.00 |  | 0.07 | 1.00 |  | 0.01 |
| Lane Grp Cap(c), veh/h | 73 | 0 | 0 | 199 | 0 | 0 | 75 | 918 | 954 | 115 | 972 | 1022 |
| V/C Ratio(X) | 0.67 | 0.00 | 0.00 | 0.78 | 0.00 | 0.00 | 0.48 | 0.82 | 0.83 | 0.69 | 0.82 | 0.82 |
| Avail Cap(c_a), veh/h | 111 | 0 | 0 | 313 | 0 | 0 | 126 | 1297 | 1347 | 207 | 1401 | 1473 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 40.7 | 0.0 | 0.0 | 36.8 | 0.0 | 0.0 | 40.2 | 14.8 | 14.9 | 38.9 | 13.4 | 13.4 |
| Incr Delay (d2), s/veh | 10.2 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | 4.7 | 3.1 | 3.0 | 7.0 | 2.7 | 2.5 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| \%ile BackOfQ(50\%),veh/ln | 1.2 | 0.0 | 0.0 | 3.5 | 0.0 | 0.0 | 0.8 | 10.3 | 10.8 | 1.8 | 10.1 | 10.6 |
| Unsig. Movement Delay, s/veh |  |  |  |  |  |  |  |  |  |  |  |  |
| LnGrp Delay(d),s/veh | 50.9 | 0.0 | 0.0 | 43.2 | 0.0 | 0.0 | 44.8 | 17.9 | 18.0 | 46.0 | 16.1 | 16.0 |
| LnGrp LOS | D | A | A | D | A | A | D | B | B | D | B | B |
| Approach Vol, veh/h |  | 49 |  |  | 155 |  |  | 1581 |  |  | 1716 |  |
| Approach Delay, s/veh |  | 50.9 |  |  | 43.2 |  |  | 18.5 |  |  | 17.4 |  |
| Approach LOS |  | D |  |  | D |  |  | B |  |  | B |  |
| Timer - Assigned Phs | 1 | 2 |  | 4 | 5 | 6 |  | 8 |  |  |  |  |
| Phs Duration ( $\mathrm{G}+\mathrm{Y}+\mathrm{Rc}$ ), s | 9.9 | 53.6 |  | 8.0 | 7.4 | 56.1 |  | 14.8 |  |  |  |  |
| Change Period ( $\mathrm{Y}+\mathrm{Rc}$ ), s | 4.5 | 5.0 |  | 4.5 | 4.5 | 5.0 |  | 4.5 |  |  |  |  |
| Max Green Setting (Gmax), s | 10.5 | 69.0 |  | 5.5 | 5.5 | 74.0 |  | 16.5 |  |  |  |  |
| Max Q Clear Time (g_c+11), s | 6.3 | 35.3 |  | 4.6 | 3.8 | 35.6 |  | 10.2 |  |  |  |  |
| Green Ext Time (p_c), s | 0.1 | 13.3 |  | 0.0 | 0.0 | 15.3 |  | 0.4 |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| HCM 6th Ctrl Delay |  |  | 19.5 |  |  |  |  |  |  |  |  |  |
| HCM 6th LOS |  |  | B |  |  |  |  |  |  |  |  |  |

# SIGNALIZED INTERSECTION MANUAL CALCULATIONS 

| US 101 @ Koos Bay Blvd |  |  |  |
| :---: | :---: | :---: | :---: |
| Critical movement | Adjusted flow | Saturated flow | ratio |
| EBL | 24 | 129 | 0.186 |
| NBL | 132 | 1602 | 0.082 |
| SBT | 1474 | 3245 | 0.454 |
|  |  | SUM | 0.723 |

Cycle length LOST TIME
critical v/c ratio

90 seconds
12 seconds
0.834
US 101 @ Hemlock Ave

| Critical movement | Adjusted flow | Saturated flow | ratio |
| :---: | :---: | :---: | :---: |
| EBT | 13 | 422 | 0.031 |
| WBT | 18 | 184 | 0.098 |
| SBL | 79 | 1550 | 0.051 |
| NBT | 1489 | 3140 | 0.474 |
| 120 seconds |  |  |  |
| Cycle length <br> LOST TIME <br> critical v/c ratio | 16 seconds |  |  | | 0.754 |
| :--- |

## APPENDIX F

## Coos Bay Village Center Traffic Impact Analysis

# Coos Bay Village Center Commercial Development 

Traffic Impact Analysis

September 11, 2018

Prepared By:


Tbanspobtation Engineering. LLC

# Coos Bay Village Center Commercial Development 

## Traffic Impact Analysis

## September 11, 2018

Prepared By:
Southern Obegon Tbanspobtation Engineering, LL(


## TABLE OF CONTENTS

I. EXECUTIVE SUMMARY .....  .5
II. INTRODUCTION ..... 6
Background ..... 6
Project Location .....  6
Project Description ..... 6
III. EXISTING YEAR 2018 NO-BUILD CONDITIONS ..... 9
Site Condition. ..... 9
Roadway Characteristics ..... 9
Traffic Counts ..... 9
Intersection Capacity and Level of Service ..... 12
Year 2018 No-Build Intersection Operations ..... 13
Year 2018 No-Build $95^{\text {th }}$ Percentile Queuing ..... 13
Crash History ..... 14
Pedestrian and Bicycle Accessibility ..... 15
Transit Service ..... 16
IV. DESIGN YEAR 2021 NO-BUILD CONDITIONS ..... 17
Design Year 2021 No-Build Description ..... 17
Design Year 2021 No-Build Intersection Operations ..... 17
Design Year 2021 No-Build $95^{\text {th }}$ Percentile Queuing ..... 18
V. SITE TRAFFIC ..... 23
Trip Generation ..... 23
Trip Distribution and Assignment ..... 23
VI. DESIGN YEAR 2021 BUILD CONDITIONS ..... 26
Design Year 2021 Build Description ..... 26
Design Year 2021 Build Intersection Operations ..... 26
Signal Warrants ..... 26
Signal Spacing ..... 28
Conceptual Signal Layout Description ..... 28
Design Year 2021 Build $95{ }^{\text {th }}$ Percentile Queuing ..... 28
$85^{\text {th }}$ Percentile Speed ..... 30
Sight Distance ..... 30
VII. FUTURE YEAR 2026 NO-BUILD AND BUILD CONDITIONS ..... 34
Future Year 2026 No-Build Description ..... 34
Future Year 2026 Build Description ..... 34
Future Year 2026 No-Build and Build Intersection Operations ..... 34
Future Year 2026 No-Build and Build $95^{\text {th }}$ Percentile Queuing ..... 35
VIII. CONCLUSIONS ..... 38

## LIST OF TABLES

Table 1: Roadway Classifications and Descriptions ..... 9
Table 2: HCM Level of Service Designations for Stop-Controlled Intersections ..... 12
Table 3: HCM Level of Service Designations for Signalized Intersections ..... 12
Table 4: Year 2018 No-Build Intersection Operations, PM Peak Hour ..... 13
Table 5: Year 2018 No-Build $95^{\text {th }}$ Percentile Queue Lengths, PM Peak Hour. ..... 14
Table 6: Study Area Intersection Crash Rates, 2012-2016 ..... 14
Table 7: Crash History by Type, 2012-2016 ..... 14
Table 8: Design Year 2021No-Build Intersection Operations, PM Peak Hour ..... 17
Table 9: Design Year 2021 No-Build $95^{\text {th }}$ Percentile Queue Lengths, PM Peak Hour ..... 18
Table 10: Development Trip Generations ..... 23
Table 11: Design Year 2021Build Intersection Operations ..... 26
Table 12: Design Year 2021Build $95^{\text {th }}$ Percentile Queue Lengths ..... 28
Table 13: Future Year 2026 No-Build and Build Intersection Operations ..... 34
Table 14: Future Year 2026 No-Build and Build 95 ${ }^{\text {th }}$ Percentile Queue Lengths ..... 35
FIGURES
FIGURE 1: Vicinity Map ..... 7
FIGURE 2: Conceptual Site Plan ..... 8
FIGURE 3a: Year 2018 No-Build Traffic Volumes, AM Peak Hour ..... 10
FIGURE 3b: Year 2018 No-Build Traffic Volumes, PM Peak Hour ..... 11
FIGURE 4a: Background Growth Year 2018-2021, AM Peak Hour ..... 19
FIGURE 4b: Background Growth Year 2018-2021, PM Peak Hour ..... 20
FIGURE 5a: Design Year 2021 No-Build Traffic Volumes, AM Peak Hour ..... 21
FIGURE 5b: Design Year 2021 No-Build Traffic Volumes, PM Peak Hour ..... 22
FIGURE 6a: Development Trip Distributions, AM Peak Hour. ..... 24
FIGURE 6b: Development Trip Distributions, PM Peak Hour ..... 25
FIGURE 7a: Design Year 2021 Build Traffic Volumes, AM Peak Hour ..... 31
FIGURE 7b: Design Year 2021 Build Traffic Volumes, PM Peak Hour ..... 32
FIGURE 8: Conceptual Signal Layout ..... 33
FIGURE 9: Future Year 2026 No-Build Traffic Volumes, PM Peak Hour. ..... 36
FIGURE 10: Future Year 2026 Build Traffic Volumes, PM Peak Hour. ..... 37

## APPENDICES

APPENDIX A: TRAFFIC COUNT DATA, SEASONAL ADJUSTMENT, SIGNAL TIMING DATA
APPENDIX B: ITE TRIP GENERATION DATA, BACKGROUND GROWTH, CRASH DATA
APPENDIX C: YEAR 2018 NO-BUILD SYNCHRO AND SIMTRAFFIC OUTPUT
APPENDIX D: DESIGN YEAR 2021 NO-BUILD SYNCHRO AND SIMTRAFFIC OUTPUT

APPENDIX E: DESIGN YEAR 2021 BUILD SYNCHRO AND SIMTRAFFIC OUTPUT
APPENDIX F: FUTURE YEAR 2026 NO-BUILD SYNCHRO AND SIMTRAFFIC OUTPUT
APPENDIX G: FUTURE YEAR 2026 BUILD SYNCHRO AND SIMTRAFFIC OUTPUT
APPENDIX H: SIGNAL WARRANTS
APPENDIX I: AGENCY REQUIREMENTS

## I. EXECUTIVE SUMMARY

## Summary

Southern Oregon Transportation Engineering, LLC prepared a traffic analysis for the proposed Coos Bay Village Center mixed-use commercial development in Coos Bay, Oregon. The subject property is located east of US 101 between Ivy Street and Fir Street.

Proposed commercial development includes a mix of office, retail, and restaurant uses, and is estimated to generate 2,969 average daily trips (ADT) to the transportation system with 74 trips occurring during the a.m. peak hour and 198 trips during the p.m. peak hour. Study area intersections include:

- Koosbay Blvd. / US 101
- Ivy Street / US 101
- Hemlock Ave. / US 101
- Fir Street / US 101
- Market Ave. / Front Street / US 101
- Access points

Study area intersections were evaluated under existing year 2018, design year 2021 (no-build and build), and future year 2026 (no-build and build) conditions during the a.m. and p.m. peak hours.

## Conclusions

The findings of the traffic impact analysis conclude that the proposed Coos Bay Village Center can be approved on the transportation system with recommended improvements without creating adverse impacts. Results of the analysis are as follows:

1. One study area intersection is shown to exceed performance standards by the design year 2021 with proposed development. The intersection of Hemlock Avenue and US 101, as a two-way stop controlled intersection, will require a traffic signal as a result of proposed development. This improvement is shown to meet applicable warrants and, if implemented, will adequately mitigate the intersection through future year 2026 build conditions. A deviation will be required for spacing between signalized intersections.
2. There were no safety concerns as a result of crash history within the study area
3. A conceptual signal layout is provided which shows that a traffic signal can work within the existing right-of-way with some recommended striping changes and allowance of minimum setbacks. This will require further negotiations with ODOT Roads, ODOT Rail, and the Port of Coos Bay due to the close proximity of the railroad.

The proposed Coos Bay Village Center is shown to be in compliance with the Coos Bay Comprehensive Plan and Land Development Code. Streets that serve the subject property are shown to have adequate capacity to support proposed development.

## II. INTRODUCTION

## Background

Southern Oregon Transportation Engineering, LLC prepared a traffic impact analysis for the proposed Coos Bay Village Center mixed-use commercial development in Coos Bay, Oregon.

A traffic impact analysis is required by the City of Coos Bay, Oregon Department of Transportation (ODOT), ODOT Rail, and the Port of Coos Bay to address development impacts to the transportation system and nearby railroad. The scope of the analysis includes evaluating development impacts within an identified study area under existing, design year, and future (5-years) year conditions during the a.m. and p.m. peak hours. Study area intersections were identified by ODOT and the City of Coos Bay to include:

- Koosbay Blvd. / US 101
- Ivy Street / US 101
- Hemlock Ave. / US 101
- Fir Street / US 101
- Market Ave. / Front Street / US 101
- Access points

The main development entrance is proposed at the east approach of the Hemlock Avenue / US 101 stopcontrolled intersection. A second, shared access is proposed along the north boundary line of the Coos Bay Museum.

## Project Location

The subject property is located east of US 101 between Ivy Street and Fir Street at 25S13W26BB lot 400 \& 25S13W26BD lot 100 in Coos Bay, Oregon. Refer to Figures 1 and 2 for a vicinity map and site plan.

## Project Description

The subject property is currently vacant. Proposed development includes approximately 78,642 square feet of office, retail, and restaurant uses within a mixed-use commercial development. The estimated traffic generation is 2,969 average daily trips (ADT) to the transportation system with 74 primary trips occurring during the a.m. peak hour and 198 primary trips during the p.m. peak hour. Two access points are proposed to the site.



## III. EXISTING YEAR 2018 NO-BUILD CONDITIONS

## Site Conditions

The subject property is located east of US 101 between Ivy Street and Fir Street at 25S13W26BB lot $400 \& 25 S 13 W 26 B D$ lot 100 in Coos Bay, Oregon. The main development entrance is proposed at the east approach of the Hemlock Avenue / US 101 intersection. A second, shared access is proposed along the north boundary line of the Coos Bay Museum. US 101 is under ODOT jurisdiction and is classified as a Statewide Highway. Hemlock Avenue, Ivy Street, Fir Street, Market Avenue, and Koosbay Boulevard are all under City of Coos Bay jurisdiction.

## Roadway Characteristics

The project study area includes key intersections along US 101 and Front Street between Market Avenue and Koosbay Boulevard. Table 1 provides a summary of existing roadway classifications and descriptions in the study area.

Table 1 - Roadway Classifications and Descriptions

| Roadway | Jurisdiction | Functional <br> Classification | Lanes | Operational <br> Standard | Posted Speed <br> (MPH) |
| :--- | :--- | :--- | :--- | :--- | :--- |
| US 101 | ODOT | Statewide Highway <br> / Principal Arterial | $2-5$ | V/C 0.80-0.85 | $30-45$ |
| Market Avenue | City of Coos Bay | Local | 2 | LOS D | 25 |
| Fir Street | City of Coos Bay | Local | 2 | LOS D | 25 |
| Hemlock Avenue | City of Coos Bay | Local | 2 | LOS D | 25 |
| Ivy Street | City of Coos Bay | Local | 2 | LOS D | 25 |
| Koosbay Boulevard | City of Coos Bay | Arterial | 2 | LOS D | 35 |

Note:

1. Volume-to-capacity (V/C) ratio performance standard in Oregon Highway Plan (OHP) is 0.85 for 30 mph and 0.80 for 45 mph

## Traffic Counts

Manual traffic counts were collected in April of 2018 at study area intersections with the exception of Koosbay Boulevard / US 101, which was counted by ODOT in July of 2017. Six intersections were counted for 3-hour a.m. (6:00-9:00 a.m.) and p.m. (3:00-6:00 p.m.) peak periods, and two intersections for 16 hour (6:00 a.m. to 10:00 p.m.) durations. The global peak hour was determined to be 7:15-8:15 a.m. and 4:30-5:30 p.m. within the study area.

April counts were seasonally adjusted using ODOT's Automated Traffic Recorder (ATR) Characteristic Table and ATR station 06-009, located on US 101 at milepost 244.02. The seasonal adjustment factor (calculated to be 1.18) was applied to raw traffic counts and balanced to represent $30^{\text {th }}$ highest hourly volumes. Adjusted traffic volumes were compared to July counts from 2017 and shown to be approximately $4 \%$ higher southbound and $12 \%$ higher northbound so the adjustment is considered conservative. July traffic volumes were balanced to the seasonally adjusted study area counts before evaluating. Refer to Figures 3a and 3b for year 2018 design hour volumes during the a.m. and p.m. peak hours. Counts are provided in Appendix A.

Figure 3a : Year 2018 No-Build Traffic Volumes, AM Peak Hour


Figure 3b : Year 2018 No-Build Traffic Volumes, PM Peak Hour


## Intersection Capacity and Level of Service

Intersection capacity calculations were conducted utilizing the methodologies presented in the Year 2010 Highway Capacity Manual. Capacity and level of service calculations for unsignalized intersections were prepared using "SYNCHRO" timing software. Two performance measures were evaluated. They include level of service (LOS) and the volume-to-capacity ( $\mathrm{v} / \mathrm{c}$ ) ratio.

Level of service quantifies the degree of comfort afforded to drivers as they travel through an intersection or along a roadway section. The level of service methodology was developed to quantify the quality of service of transportation facilities. Level of service is based on total delay, defined as the total elapsed time from when a vehicle stops at the end of a queue until the vehicle departs from the stop line. Level of service ranges from " A " to " F ", with " A " indicating the most desirable condition and " $F$ " indicating an unsatisfactory condition. The HCM LOS designations for stop-controlled and signalized intersections are provided in Tables 2 and 3.

Table 2 - HCM Level of Service Designations for Stop-Controlled Intersections

| Level of Service | Delay Range |
| :---: | :---: |
| A | $<10$ |
| B | $>10-15$ |
| C | $>15-25$ |
| E | $>25-35$ |
| F | $>35-50$ |

Table 3 - HCM Level of Service Designations for Signalized Intersections

| Level of Service | Delay Range |
| :---: | :---: |
| A | $<10$ |
| B | $>10-20$ |
| C | $>20-35$ |
| D | $>35-55$ |
| E | $>55-80$ |

The $\mathrm{v} / \mathrm{c}$ ratio is a measure that describes the level of capacity being utilized by vehicles passing through an intersection or within a lane group as compared to the number of vehicles that could pass through at capacity (i.e. a v/c of 1.0 represent a roadway operating at $100 \%$ capacity).

Streets within the study area are under City of Coos Bay and ODOT jurisdiction. The City of Coos Bay uses a level of service "D" performance standard for intersections, while ODOT uses a volume-tocapacity ( $\mathrm{v} / \mathrm{c}$ ) ratio. Table 6 of the Oregon Highway Plan (OHP) identifies ODOT mobility standards for state highway and non-state highway approaches outside of the Metro area. Per the OHP, the mobility standard for statewide highway approaches on a freight route outside of a Metropolitan Planning Organization (MPO) is a v/c ratio of 0.80 within a 30 mph zone and 0.85 within a 45 mph zone. The mobility standard for non-state highway approaches is a $\mathrm{v} / \mathrm{c}$ ratio of 0.90/0.95 (District/Local Interest) depending on the roadway speed. Mitigation is required if proposed development causes a study area intersection to exceed an operational standard and operate worse than no-build conditions.

## Year 2018 No-Build Intersection Operations

Study area intersections were evaluated under year 2018 no-build conditions during the a.m. and p.m. peak hours. Results are summarized in Table 4.

Table 4 - Year 2018 No-Build Intersection Operations, (AM)PM Peak Hours

| Intersection | Performance <br> Standard | Traffic Control | AM Peak Hour | PM Peak Hour |
| :--- | :--- | :--- | :--- | :--- |
| Koosbay Boulevard / US 101 | V/C $0.80^{2}$ | Signal | 0.68 | 0.70 |
| Ivy Street / US 101 | V/C $0.90^{1}$ | TWSC | 0.21, EB | 0.28, EB |
| Hemlock Avenue / US 101 | V/C $0.90^{1}$ | TWSC | 0.44, EB | 0.64, EB |
| Fir Street / US 101 northbound | V/C $0.95^{1}$ | TWSC | 0.00, EB | 0.00, EB |
| Fir Street / US 101 southbound | V/C $0.95^{1}$ | TWSC | 0.01, WB | 0.08, WB |
| Fir Street / US 101 northbound / Front | V/C $0.95^{1}$ | TWSC | 0.00, WB | 0.03, WB |
| Front Street / Fir Street | LOS D | TWSC | A, EB | A, EB |
| Market Avenue / US 101 northbound | V/C $0.95^{1}$ | TWSC | 0.20, EB | 0.27, WB |

LOS $=$ Level of Service, V/C $=$ volume-to-capacity, $\mathrm{WB}=$ westbound, $\mathrm{EB}=$ eastbound

1. The v/c ratio is based on Action 1F. 1 of the OHP for non-state highway approaches at unsignalized intersections
2. The v/c ratio is based on Action 1F. 1 of the OHP for the more restrictive v/c ratio at a signalized intersection

Results of the analysis show study area intersections operate acceptably (within performance standards) under existing year 2018 no-build conditions during both the a.m. and p.m. peak hours. Refer to Appendix C for synchro output sheets.

## Year 2018 No-Build 95 ${ }^{\text {th }}$ Percentile Queuing

Queuing is the stacking up of vehicles for a given lane movement, and it can have a significant effect on roadway safety and the overall operation of a transportation system. Long queue lengths in through lanes can block access to turn lanes, driveways, and minor street approaches, as well as spill back into upstream intersections. As a result of this, the estimation of queue lengths is an important aspect of the analysis process for determining how a transportation corridor operates.

Queue lengths are reported as the average, maximum, or $95^{\text {th }}$ percentile queue length. The $95^{\text {th }}$ percentile queue length is used for design purposes and is the queue length reported in this analysis. Five simulations were run and averaged in SimTraffic to determine $95^{\text {th }}$ percentile queue lengths. Queues were rounded up to the nearest 25 feet (single vehicle length) and reported in Table 5 for the a.m. and p.m. peak hours if shown to exceed their available link distance or block a downstream intersection/driveway. Full queuing and blocking reports are provided in Appendix C.

Table 5 - Year 2018 No-Build $95{ }^{\text {th }}$ Percentile Queue Lengths, PM Peak Hour

| Intersection | Available Distance (feet) | $\mathbf{9 5}^{\text {th }}$ Percentile Queue (feet) | Exceeded Roadway |
| :--- | :--- | :--- | :--- |
| Koosbay Blvd / US 101 |  |  |  |
| Southbound Through/Right | 125 | $\mathbf{1 5 0}$ a.m., 175 p.m. | Car wash driveway |

Note: Exceeded performance standards are shown in bold, italic
Results of the queuing analysis show one $95^{\text {th }}$ percentile queue length on US 101 at Koosbay Boulevard in the southbound outside lane blocks the nearest driveway at the Hot Spot Car Wash. This occurs during both the a.m. and p.m. peak hours. No other queue lengths are shown to exceed their available link distance or block a downstream intersection/driveway during either peak hour.

## Crash History

Crash data for the most recent five-year period was gathered from ODOT's online crash database. Results were gathered for the period of January 1, 2012 through December $31^{\text {st }}, 2016$. Crash data is gathered to identify crash patterns that could be attributable to geometric or operational deficiencies, or crash trends of a specific type that would indicate the need for further investigation. The crash rate at each intersection is also compared to a critical crash rate provided in the Highway Safety Manual (HSM). Intersections that exceed their respective critical crash rate are flagged for further review. Tables 6 and 7 provide intersection crash rates and types of collisions at study area intersections that were shown to have reported crashes. Full crash reports are provided in Appendix B.

Table 6 - Study Area Intersection Crash Rates, 2012-2016

| Intersection | 2012 | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | Total <br> Crashes | ADT | Crash <br> Rate | Critical <br> Crash <br> Rate |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Koosbay Blvd / US 101 | 0 | 0 | 1 | 0 | 3 | 4 | 25,800 | 0.08 | 0.509 |
| Ivy St / US 101 | 0 | 0 | 1 | 0 | 0 | 1 | 25,200 | 0.02 | 0.408 |
| Hemlock Ave / US 101 | 0 | 1 | 2 | 1 | 0 | 4 | 25,500 | 0.09 | 0.408 |
| Market Ave / US 101 | 1 | 3 | 1 | 1 | 0 | 6 | 13,150 | 0.25 | 0.293 |

Table 7 - Crash History by Type, 2012-2016

| Intersection | Collision Type |  |  |  |  |  |  | Severity |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Rear- <br> End | Turning/ <br> Angle | Other | Pedestrian <br> /Bicyclist | Non- <br> Injury | Injury | Fatal |  |
| Koosbay Blvd / US 101 | 2 | 2 | 0 | 0 | 2 | 2 | 0 |  |
| Ivy St / US 101 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |  |
| Hemlock Ave / US 101 | 2 | 2 | 0 | 0 | 2 | 2 | 0 |  |
| Market Ave / US 101 | 0 | 5 | 0 | 1 | 3 | 3 | 0 |  |

Results of the crash analysis identified 15 reported crashes at study area intersections within a five-year period. Of the 15 reported crashes, none resulted in fatality or severe injury (injury A). Approximately half of crashes resulted in less severe injury or property damage only.

The intersection with the highest occurrence (6 reported collisions) was the unsignalized intersection of Market Avenue and US 101 northbound (Bayshore Drive), where 100\% of reported crashes were turning movement or angle collisions. One collision involved a cyclist and resulted in a low level injury. The cyclist was riding against traffic on the shoulder. An eastbound left turning vehicle failed to yield to the cyclist, and the cyclist was determined to be at fault for the crash. Four of the six crashes were caused from error by the eastbound left turning vehicle.

No study area intersection was shown to have a crash rate exceeding the ODOT critical crash rate. No intersections were listed as top 5\% SPIS (Safety Priority Index System) sites, which helps identify potential problem areas. The overall conclusion of the crash analysis is that crash data does not raise concerns regarding the number, type, or severity of collisions reported in the study area that would require further investigation.

## Pedestrian and Bicycle Accessibility

Pedestrian and bicyclist activity was observed to be low within the study area, but this would be expected to increase after development of the mixed-use commercial center. A bike lane is currently striped on the west side of US 101 between Myrtle Avenue and Hemlock Avenue. Sidewalks are provided on the west side of US 101 from north of Koos Bay Boulevard to the one-way couplet south of Hemlock Avenue. Sidewalk continues along the west side of US 101 southbound (N. Broadway) through the study area and begins on the east side of southbound US 101 from a location approximately 500 feet north of Alder Avenue. On US 101 northbound (Bayshore Drive), sidewalk is provided on both sides of the highway from Market Street to Fir Street, but stops where the railroad transitions over from the middle of Front Street to parallel US 101. Front Street has sidewalk on both sides for most of its length, with the exception of a small section north and south of the Coos Bay Museum.

Sidewalk will be provided along the proposed commercial development frontage and connect to existing sidewalk in front of the Coos Bay Museum for pedestrians traveling to the site from Front Street. A 14 -foot wide multi-use path is also proposed along the bay that will provide circulation across the site and to specific outdoor eating areas for pedestrians and cyclists. See site plan below.

Proposed Coos Bay Village Center


Pedestrians traveling to the site from US 101 will likely be coming from one or more of the hotels or businesses along the west side of 101 and will have a sidewalk to walk on to Hemlock Avenue. At the intersection of Hemlock Avenue and US 101, crosswalks will be provided through a proposed new
traffic signal, and pedestrian paths from the signal to the site for the final connections. Internally, pedestrian paths are provided between all buildings and across connecting parking areas for enhanced safety.

Cyclists will be able to use the striped bike lane on US 101 if coming from the north. If coming from the south, cyclists will have the option of riding along the shoulder of US 101 or diverting over to Front Street where traffic volumes are much lower.

## Transit Service

Public Transit is provided by Coos County Area Transit Service District (CCAT). CCAT provides a "Loop Bus" fixed route service as well as a demand-response (dial-a-ride) service to areas within $3 / 4$ mile of either side of an existing fixed route. The dial-a-ride service is for passengers who are unable to access the fixed-route stops. Service hours are from 7:00 a.m. to 5:30 p.m. Monday - Friday. Transit in the site vicinity is provided by the Bay Area Loop Route.

## IV. DESIGN YEAR 2021 NO-BUILD CONDITIONS

## Design Year 2021 No-Build Description

Design year 2021 no-build conditions represent development build year conditions for the study area without consideration of proposed development trips. This condition is evaluated to determine how a study area will be impacted by area background growth. Background growth in this report was derived using the Coos Bay/North Bend Transportation Model. Base year 2013 and future year 2035 model runs were provided by ODOT's Transportation Planning Analysis Unit (TPAU). Approach inflow and outflow volumes were post-processed in accordance with National Cooperative Research Project (NCHRP) Report 765 methodology. Growth rates were applied to study area traffic volumes to develop design year no-build traffic volumes. Refer to Figures 4a, 4b, 5a, and 5b for background growth and design year 2021 no-build traffic volumes during the a.m. and p.m. peak hours.

## Design Year 2021 No-Build Intersection Operations

Study area intersections were evaluated under design year 2021 no-build conditions during the a.m. and p.m. peak hours. Results are summarized in Table 8.

Table 8 - Design Year 2021 No-Build Intersection Operations, (AM)PM Peak Hours

| Intersection | Performance <br> Standard | Traffic Control | AM Peak Hour | PM Peak Hour |
| :--- | :--- | :--- | :--- | :--- |
| Koosbay Boulevard / US 101 | V/C $0.80^{2}$ | Signal | 0.69 | 0.71 |
| Ivy Street / US 101 | V/C $0.90^{1}$ | TWSC | 0.22, EB | 0.30, EB |
| Hemlock Avenue / US 101 | V/C $0.90^{1}$ | TWSC | 0.48, EB | 0.71, EB |
| Fir Street / US 101 northbound | V/C $0.95^{1}$ | TWSC | 0.00, EB | 0.00, EB |
| Fir Street / US 101 southbound | V/C $0.95^{1}$ | TWSC | 0.01, WB | 0.09, WB |
| Fir Street / US 101 northbound / Front | V/C 0.95 | TWSC | 0.00, WB | 0.03, WB |
| Front Street / Fir Street | LOS D | TWSC | A, EB | A, EB |
| Market Avenue / US 101 northbound | V/C $0.95^{1}$ | TWSC | 0.20, EB | 0.28, WB |

LOS $=$ Level of Service, V/C $=$ volume-to-capacity, $\mathrm{WB}=$ westbound, $\mathrm{EB}=$ eastbound

1. The $\mathrm{v} / \mathrm{c}$ ratio is based on Action 1F. 1 of the OHP for non-state highway approaches at unsignalized intersections
2. The v/c ratio is based on Action 1F. 1 of the OHP for the more restrictive v/c ratio at a signalized intersection

Results of the analysis show study area intersections continue to operate acceptably (within performance standards) under design year 2021 no-build conditions. Slight changes are observed at Koosbay Boulevard and Hemlock Avenue intersections with US 101 as a result of background growth. Refer to Appendix D for synchro output sheets.

## Design Year 2021 No-Build 95 ${ }^{\text {th }}$ Percentile Queuing

Five simulations were run and averaged in SimTraffic to determine $95^{\text {th }}$ percentile queue lengths under design year 2021 no-build conditions. Queues were rounded up to the nearest 25 feet (single vehicle length) and reported in Table 9 for the a.m. and p.m. peak hours if shown to exceed their available link distance or block a downstream intersection/driveway. Full queuing and blocking reports are provided in Appendix D.

| Table 9 - Design Year 2021 No-Build 95 |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  |  |  |  |
| th | Percentile Queue Lengths, PM Peak Hour |  |  |
| Intersection | Available Distance (feet) | $\mathbf{9 5}^{\text {th }}$ Percentile Queue (feet) | Exceeded Roadway |
| Koosbay Blvd / US 101 |  |  |  |
| Southbound Through/Right | 125 | $\mathbf{1 5 0}$ a.m., 200 p.m. | Car wash driveway |

Note: Exceeded performance standards are shown in bold, italic
Results of the queuing analysis show a slight increase in the southbound queue length on US 101 at Koosbay Boulevard as a result of background growth. This continues to be the only study area queue length shown to block a downstream intersection/driveway. Drivers on the mainline will often leave space at a driveway if stopped at a signalized intersection so this generally doesn't create a safety issue.

Figure 4 : Background Growth Year 2018-2021, AM Peak Hour


Figure 4b : Background Growth Year 2018-2021, PM Peak Hour


Figure 5a : Design Year 2021 No-Build Traffic Volumes, AM Peak Hour


Figure 5b : Design Year 2021 No-Build Traffic Volumes, PM Peak Hour


## V. SITE TRAFFIC

## Trip Generation

Trip generation calculations for the proposed mixed-use commercial development were prepared utilizing the Institute of Transportation Engineers (ITE) Trip Generation, $10^{\text {th }}$ Edition. Rates were used for land use code 820 - Shopping Center to cover a wide variety of commercial/office/retail uses. Refer to Table 10 for a summary of trip generations. ITE trip generation sheets are provided in Appendix B.

Table 10 - Development Trip Generations

| Land Use | Unit | Size | Daily Trips | AM <br> Rate | AM Peak Hour |  |  | $\begin{aligned} & \text { PM } \\ & \text { Rate } \end{aligned}$ | PM Peak Hour |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 820 |  |  |  |  | Total | In | Out |  | Total | In | Out |
| Shopping Center | 1000SF | 78.642 | 2,969 | 0.94 | 74 | 46 | 28 | 3.81 | 300 | 144 | 156 |
| Pass-by |  |  |  |  |  |  |  |  | (102) | (51) | (51) |
| Primary Trips |  |  | 2,969 |  | 74 | 46 | 28 |  | 198 | 93 | 105 |

## Trip Distribution and Assignment

Development trips were distributed to the transportation system in accordance with existing traffic patterns, splits from counts at surrounding intersections, and the nature of the one-way couplet. It was assumed that approximately $15-20 \%$ of development trips would use Front Street, but that the majority of trips would use US 101 and enter/exit through the main entrance at the Hemlock Avenue intersection on US 101. This produced the following distribution percentages:

## A.M. Peak Hour

20\% US 101 to/from the north
$15 \%$ to/from Koosbay Boulevard
9\% to/from Hemlock Avenue
$34 \%$ US 101 to/from the south
$22 \%$ to/from the downtown area

## P.M. Peak Hour

20\% US 101 to/from the north
18\% to/from Koosbay Boulevard
10\% to/from Hemlock Avenue
36\% US 101 to/from the south
$16 \%$ to/from the downtown area

Refer to Figures 6a and 6b for development trip distributions and assignments during the a.m. and p.m. peak hours.

Figure 6 a : Development Trip Distributions, AM Peak Hour


Figure 6b : Development Trip Distributions, PM Peak Hour


## VI. DESIGN YEAR 2021 BUILD CONDITIONS

## Design Year 2021 Build Description

Build conditions in this analysis represent no-build conditions for the study area with the addition of proposed development trips. Build conditions are compared to no-build conditions to determine what impacts and/or mitigation measures will result from proposed development. Refer to Figure 7a and 7b for design year 2021 build traffic volumes during the a.m. and p.m. peak hours.

## Design Year 2021 Build Intersection Operations

Study area intersections were evaluated under design year 2021 build conditions during the a.m. and p.m. peak hours. Results are summarized in Table 11.

Table 11 - Design Year 2021 Build Intersection Operations, (AM)PM Peak Hours

| Intersection | Performance <br> Standard | Traffic Control | AM Peak Hour | PM Peak Hour |
| :--- | :--- | :--- | :--- | :--- |
| Koosbay Boulevard / US 101 | V/C $0.80^{2}$ | Signal | 0.70 | 0.73 |
| Ivy Street / US 101 | V/C $0.90^{1}$ | TWSC | 0.23, EB | 0.30, EB |
| Hemlock Avenue / US 101 | V/C $0.90^{1}$ | TWSC | 0.69, EB | $>1.0$, WB |
| Fir Street / US 101 northbound | V/C $0.95^{1}$ | TWSC | 0.00, EB | 0.00, EB |
| Fir Street / US 101 southbound | V/C $0.95^{1}$ | TWSC | 0.01, WB | 0.12, WB |
| Fir Street / US 101 northbound / Front | V/C 0.95 ${ }^{1}$ | TWSC | 0.00, WB | 0.07, WB |
| Front Street / Fir Street | LOS D | TWSC | A, EB | A, EB |
| Market Avenue / US 101 northbound | V/C 0.95 ${ }^{1}$ | TWSC | 0.31, EB | 0.43, WB |
| Front Street / Site south driveway | LOS D | TWSC | A, WB | A, WB |

LOS $=$ Level of Service, V/C $=$ volume-to-capacity, $\mathrm{WB}=$ westbound, $\mathrm{EB}=$ eastbound

1. The $\mathrm{v} / \mathrm{c}$ ratio is based on Action 1F. 1 of the OHP for non-state highway approaches at unsignalized intersections
2. The v/c ratio is based on Action 1F. 1 of the OHP for the more restrictive v/c ratio at a signalized intersection

Results of the analysis show the intersection of Hemlock Avenue and US 101 exceeding its mobility standard under design year 2021 build conditions during the p.m. peak hour. All other intersections continue to operate acceptably (within performance standards) under design year 2021 build conditions during both the a.m. and p.m. peak hours. Proposed mitigation includes a traffic signal. With a traffic signal in place, the intersection is shown to operate at a v/c ratio of 0.67 . Refer to Appendix E for synchro output sheets.

## Signal Warrants

Two signal warrants were shown to be met at the intersection of Hemlock Avenue and US 101 under design year 2021 build conditions. These included Warrant 3 (Peak Hour) and Warrant 9 (Intersection Near Grade Crossing). Both were shown to be met in accordance with the Manual on Uniform Traffic Control Devices (MUTCD). Additionally, an ODOT Preliminary Traffic Signal Warrant was met for Case B : Interruption of Continuous Traffic. Refer to Appendix H for further details.


US 101 - TOTAL OF BOTH APPROACHES
VEHICLES PER HOUR (VPH)

Figure 4C-9. Warrant 9, Intersection Near a Grade Crossing (One Approach Lane at the Track Crossing)


* 25 vph applies as the lower threshold volume
** VPH after applying the adjustment factors in Tables 4C-2, 4C-3, and/or 4C-4, if appropriate

In Warrant 9 Figure 4C-9 of the MUTCD, distance D represents the stacking distance between the stop bar at an intersection and six feet from edge of track. On the east approach at the Hemlock Avenue intersection, the distance between the edge of track and face of curb is approximately six feet, which makes distance D zero. If US 101 is re-striped with reduced travel lanes, then distance D can be increased to approximately five feet, but this is still not enough stacking for a single vehicle to store. Based on this, the stop bar for the east approach is proposed east of the tracks.

## Signal Spacing

A signalized intersection must meet spacing standards for signalization relative to all planned future signalized public road intersections and the location on state highways must meet the criteria of OAR 734-020-0400 through 734-020-0500. The required spacing standard between signalized intersections on statewide and regional highways is $1 / 2$ mile or 2,640 feet. The distance between Hemlock Avenue and the nearest signalized intersection at Koosbay Boulevard is approximately 1,185 feet (approximately $1 / 4 \mathrm{mile}$ ), which does not meet the requirement. It does, however, provide the same spacing distance that's currently provided between the Newmark Street signal on US 101 and the next signal to the north at the Mill Casino, which could assist with possible coordination between signals in the future. A deviation from the spacing standard will be requested on the basis that there are limited access options along US 101 for Front Street properties due to the railroad and crossing restrictions, and a signal at the Hemlock Avenue intersection is not shown to create problems for the nearest signal to the north at Koosbay Boulevard or progression through the US 101 corridor.

## Conceptual Signal Layout Description

A conceptual layout is provided that shows the feasibility of a new traffic signal at Hemlock Avenue if US 101 is re-striped, and minimal setbacks are approved by ODOT Roads, ODOT Rail, and the Port of Coos Bay. To provide enough room for minimum clearances, re-striping would be proposed on US 101 to reduce travel lane widths. This provides the additional space needed for signal poles and crossing arms on the east side of US 101. The proposed re-striping of lanes from west to east would include a 5foot bike lane (4-foot existing), 12-foot outside travel lane, 11 -foot inside travel lane, 13 -foot left turn lane, 11 -foot inside travel lane, 12 -foot outside travel lane, and 4 -foot shoulder. This proposed restriping reduces the width of US 101 curb-to-curb to provide enough offset from the railroad tracks to maintain minimum setbacks to signal poles and crossing gates. On the south side of Hemlock Avenue, there is an existing median. The proposed re-striping includes the same general widths as on the north side, but has to address the median so the median is proposed to be reduced in width to one-foot with a 14 -foot center turn lane. The conceptual signal layout is provided in Figure 8.

## Design Year 2021 Build 95 ${ }^{\text {th }}$ Percentile Queuing

Five simulations were run and averaged in SimTraffic to determine $95^{\text {th }}$ percentile queue lengths under design year 2021 build conditions. Queues were rounded up to the nearest 25 feet (single vehicle length) and reported in Table 12 for the a.m. and p.m. peak hours if shown to exceed their available link distance or block a downstream intersection/driveway. Full queuing and blocking reports are provided in Appendix E.

Table 12 - Design Year 2021 Build 95 ${ }^{\text {th }}$ Percentile Queue Lengths, PM Peak Hour

| Intersection | Available Distance (feet) | $\mathbf{9 5}^{\text {th }}$ Percentile Queue (feet) | Exceeded Roadway |
| :--- | :--- | :--- | :--- |
| Koosbay Blvd / US 101 |  |  |  |
| Southbound Through/Right | 125 | $\mathbf{1 5 0}$ a.m., 200 p.m. | Car wash driveway |
| Hemlock Ave / US 101 |  |  |  |
| Eastbound Left/Through/Right | $25,100,550$ | $\mathbf{6 5 0}$ p.m. | ProBuild, Red Lion, 6 |
| Westbound Left/Through/Right | 25 | $\mathbf{7 5}$ p.m. | Frontage Road |

Note: Exceeded performance standards are shown in bold, italic
Results of the queuing analysis show increases in eastbound and westbound queue lengths at Hemlock Avenue and US 101 as a result of proposed development traffic. With a signal in place, the eastbound
queue reduces significantly, and the westbound queue remains the same. One change that occurs under the build condition is the frontage road becomes a one-lane, oneway southbound facility with six-foot shoulders on each side. This improvement provides additional storage for the east approach at the Hemlock Avenue intersection, and allows westbound vehicles to queue across the frontage road and into the proposed development, without blocking any traffic movements. Due to insufficient stacking distance between the tracks and US 101 on the east approach, the stop bar will have to be located east of the railroad tracks.

Queue lengths at the intersection of Hemlock Avenue and US 101
 as a signalized intersection during the occurrence of a train were estimated based upon a train on average taking 2-minutes to clear. Year 2021 build conditions were modeled in synchro so that the northbound through-shared-right movement and southbound left turn movement would have 60 seconds of red stopped time within a 90 second cycle. This allowed us to estimate a queue length for those movements and then double it to come up with a reasonable assumption during a train occurrence. A train is estimated to occur up to four times a day with one in each a.m. and p.m. 3 -hour peak period. During our 16 -hour counts, there were two trains each day.

We evaluated three options to determine what a reasonable queue might be during a train occurrence. The first option assumed lane configurations exactly as they were with the northbound movement on US 101 having a left turn lane, a through lane, and a through-shared-right turn lane. This option, when simulated, showed northbound $95^{\text {th }}$ percentile queue lengths equal to 200 feet for both through lanes, which would be doubled and assumed to be 400 feet during a 2-minute train occurrence. This, however, is skewed because during a train occurrence, the northbound through movement will continue to receive a green light, and only the right turn movement will stop. Because there are two travel lanes, it is expected that northbound through vehicles will shift over to the inside through lane to go around any vehicles stopped in the outside lane who want to make a right turn. This essentially creates a default single through lane and exclusive right turn lane during a train occurrence, but synchro/simtraffic doesn't model it that way so the reported queue lengths in the simulation output are higher than they actually would be. In an effort to isolate the right turn lane queue length during a train occurrence, two more options were modeled. Both evaluated an exclusive right turn lane, but one had a single through lane and the other two through lanes. The option with the larger cross-section was simulated for the full peak hour. The option with one through lane and one right turn lane was seeded for 5 minutes and simulated for fifteen minutes. Both showed $95^{\text {th }}$ percentile queue lengths for the northbound right turn movement to be 50 feet, which is the movement we were trying to isolate. Based on this, the estimated queue length for the outside northbound through-shared-right turn lane is estimated to be approximately 100 feet during a 2-minute train occurrence.

Estimated $95^{\text {th }}$ percentile queue lengths for stopped movements at the Hemlock Avenue and US 101 signalized intersection during a 2-minute train occurrence are concluded to be:

## Traffic Movement

Northbound Through/Right
Southbound Left
Eastbound Left/Through/Right
Westbound Left/Through/Right

## 95 ${ }^{\text {th }}$ Percentile Queues

100 feet
150 feet
100 feet
150 feet

## 85 ${ }^{\text {th }}$ Percentile Speed

Speeds were measured on US 101 south of Hemlock Avenue to determine the $85^{\text {th }}$ percentile speed for northbound and southbound traffic. The $85^{\text {th }}$ percentile speed represents the speed at which 85 percent of drivers drive at or below, and is used in speed studies. Speeds were measured from tubes laid across US 101 one-way sections on either side of the center median. In the northbound direction, the $85^{\text {th }}$ percentile speed was measured to be 37.9 miles per hour (mph). In the southbound direction, the $85^{\text {th }}$ percentile speed was measured to be 43.4 mph . The posted speed on US 101 is 30 mph south of Hemlock Avenue and 45 mph north of Hemlock Avenue. If a traffic signal is approved on US 101 at Hemlock Avenue, then it would be recommended that the posted speed change be re-located a short distance north of Hemlock Avenue to decrease the potential for rear-end collisions at the new signalized intersection.

## Sight Distance

US 101 is a straight, flat, five-lane facility at Hemlock Avenue. Sight distance was measured in the field and shown to be clear and unobstructed to the north and south from the east approach of the Hemlock Avenue / US 101 intersection. Intersection sight distance in Table 2 of Oregon Administrative Rules (OAR) 734-051-4020(8) requires a minimum of 650 feet of sight distance for a two-lane highway with a posted speed of 45 miles per hour.

| Posted Speed (mph) | Table 2: Intersection Sight Distance Standards (ISD) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Assumed Design Speed ${ }^{1}$ (mph) | Two-Way Highway -Number of Lanes Crossed by Vehicle Making Left Turn from Approach ${ }^{2}$ |  |  | One-Way Highway |
|  |  | 1 Lane | 2 Lanes | 3 Lanes |  |
|  |  | ISD (ft) |  |  |  |
| 20 | 25 | 280 | 295 | 315 | 240 |
| 25 | 30 | 335 | 355 | 375 | 290 |
| 30 | 35 | 390 | 415 | 440 | 335 |
| 35 | 40 | 445 | 475 | 500 | 385 |
| 40 | 45 | 500 | 530 | 565 | 430 |
| 45 | 55 | 610 | 650 | 690 | 530 |
| 50 | 65 | 720 | 765 | 815 | 625 |
| 55 | 70 | 775 | 825 | 875 | 720 |
| 60 | 70 | 775 | 825 | 875 | 720 |
| 65 | 70 | 775 | 825 | 875 | 720 |

Sight distance measurements in the field from the east approach were over 800 feet in each direction, which is shown to be adequate.

Figure 7a : Design Year 2021 Build Traffic Volumes, AM Peak Hour


Figure 7b : Design Year 2021 Build Traffic Volumes, PM Peak Hour



## VII. FUTURE YEAR 2026 NO-BUILD/BUILD CONDITIONS

## Future Year 2026 No-Build Description

The future year analysis for a proposed development estimated to generate less than 2,999 ADT is year of opening plus five years. The estimated year of opening for the proposed development is design year 2021. The future year is, therefore, year 2026. Future year no-build conditions represent future year conditions for a study area without consideration of proposed development trips. This condition is evaluated to determine how a study area will be impacted by area background growth. Background growth in this report, as stated previously in Section IV, was derived using the Coos Bay/North Bend Transportation Model. Growth rates were derived and applied to study area traffic volumes to develop future year 2026 no-build traffic volumes during the p.m. peak hour. The p.m. peak hour was shown to have higher v/c ratios and queue lengths at all study area intersections than the a.m. peak hour, so the a.m. peak hour was not evaluated in the future condition. Refer to Figure 9 for future year 2026 nobuild traffic volumes during the p.m. peak hour.

## Future Year 2026 Build Description

Future year 2026 build conditions represent future conditions for the study area with background growth and proposed development trips considered. Build conditions are compared to no-build conditions to determine what impacts and/or mitigation measures will result from proposed development. Refer to Figure 10 for future year 2026 build conditions during the p.m. peak hour.

## Future Year 2026 No-Build / Build Intersection Operations

Study area intersections were evaluated under future year 2026 no-build and build conditions during the p.m. peak hour. Results are summarized in Table 13.

| Intersection | Performance Standard | Traffic Control | PM Peak Hour |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | No-Build | Build |
| Koosbay Boulevard / US 101 | V/C $0.80^{2}$ | Signal | 0.73 | 0.75 |
| Ivy Street / US 101 | V/C $0.9{ }^{1}$ | TWSC | 0.33, EB | 0.36, EB |
| Hemlock Avenue / US 101 | V/C $0.80^{2}$ | TWSC, Signal | 0.80, EB (TWSC) | 0.69 (Signal) |
| Fir Street / US 101 northbound | V/C $0.95{ }^{1}$ | TWSC | 0.00, EB | 0.00, EB |
| Fir Street / US 101 southbound | V/C $0.95^{1}$ | TWSC | 0.09, WB | 0.12, WB |
| Fir Street / US 101 northbound / Front | V/C $0.95^{1}$ | TWSC | 0.03, WB | 0.07, WB |
| Front Street / Fir Street | LOS D | TWSC | A, EB | A, EB |
| Market Avenue / US 101 northbound | V/C $0.95{ }^{1}$ | TWSC | 0.30, WB | 0.47, WB |
| Front Street / Site south driveway | LOS D | TWSC | Not Applicable | A, WB |

LOS = Level of Service, V/C = volume-to-capacity, WB = westbound, EB = eastbound

1. The $\mathrm{v} / \mathrm{c}$ ratio is based on Action 1F. 1 of the OHP for non-state highway approaches at unsignalized intersections
2. The $v / c$ ratio is based on Action 1F. 1 of the OHP for the more restrictive v/c ratio at a signalized intersection

Results of the analysis show study area intersections operate acceptably under future year 2026 no-build and build condition with a signal included at the intersection of Hemlock Avenue and US 101. Refer to Appendix F for synchro output sheets.

## Future Year 2026 No-Build / Build 95 ${ }^{\text {th }}$ Percentile Queuing

Five simulations were run and averaged in SimTraffic to determine $95^{\text {th }}$ percentile queue lengths under future year 2026 no-build and build conditions. Queues were rounded up to the nearest 25 feet (single vehicle length) and reported in Table 14 for the p.m. peak hour if shown to exceed its available link distance or block a downstream intersection/driveway. Full queuing and blocking reports are provided in Appendix F.

| Intersection | Available Distance (feet) | 95 ${ }^{\text {th }}$ Percentile Queue (feet) | Exceeded Roadway |
| :---: | :---: | :---: | :---: |
| Koosbay Blvd / US 101 |  |  |  |
| Southbound Through/Right | 125 | 225 / 225 (no-build / build) | Car wash driveway |
| Hemlock Ave / US 101 |  |  |  |
| Eastbound Left/Through/Right Westbound Left/Through/Right | $\begin{aligned} & 25,100,550 \\ & 25 \end{aligned}$ | 100 / 50 (no-build / build) 25 / 75 (no-build / build) | ProBuild driveway Frontage Road |

Note: Exceeded performance standards are shown in bold, italic
Results of the queuing analysis show very few changes in queue lengths as a result of additional background traffic. Two of the three queues are blocking driveways. The westbound approach at the Hemlock Avenue and US 101 signalized intersection will have the stop bar east of the tracks so the 75foot queue will extend into the site at times.

Queue lengths at the signalized intersection of Hemlock Avenue and US 101, during a train occurrence, are estimated from model simulations to remain the same under future year 2026 build conditions as they were under design year 2021 build conditions. The two northbound through lanes on US 101 are expected to operate much like a default through and right turn lane during a train occurrence with through vehicles continuing to move and right turning vehicles stopping. None of the estimated queue lengths are considered to be excessive.

Figure 9 : Future Year 2026 No-Build Traffic Volumes, PM Peak Hour


Figure 10 : Future Year 2021 Build Traffic Volumes, PM Peak Hour


## VIII. CONCLUSIONS

## Conclusions

The findings of the traffic impact analysis conclude that the proposed Coos Bay Village Center can be approved on the transportation system with recommended improvements without creating adverse impacts. Results of the analysis are as follows:

1. One study area intersection is shown to exceed performance standards by the design year 2021 with proposed development. The intersection of Hemlock Avenue and US 101, as a two-way stop controlled intersection, will require a traffic signal as a result of proposed development. This improvement is shown to meet applicable warrants and, if implemented, will adequately mitigate the intersection through future year 2026 build conditions. A deviation will be required for spacing between signalized intersections.
2. There were no safety concerns as a result of crash history within the study area
3. A conceptual signal layout is provided which shows that a traffic signal can work within the existing right-of-way with some recommended striping changes and allowance of minimum setbacks. This will require further negotiations with ODOT Roads, ODOT Rail, and the Port of Coos Bay due to the close proximity of the railroad.

The proposed Coos Bay Village Center is shown to be in compliance with the Coos Bay Comprehensive Plan and Land Development Code. Streets that serve the subject property are shown to have adequate capacity to support proposed development.


