TRAFFIC IMPACT ANALYSIS

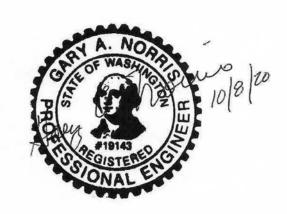
FOR

GRIP ROAD MINE

Prepared By

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Client

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TABLE OF CONTENTS

INTRODUCTION	
PROJECT DESCRIPTION	
EXISTING CONDITIONS (YEAR 2020)	
ROADWAYS	
Interstate 5	
Old Highway 99 N	
Bow Hill Road	
Prairie Road	
F&S Grade Road	
Grip Road	
TRANSIT/NON-MOTORIZED FACILITIES	
Transit	
Non-Motorized Facilities	
TRAFFIC VOLUMES	
LEVEL OF SERVICE	
CRASH HISTORY	
PLANNED AND PROGRAMMED IMPROVEMENTS	
SIGHT DISTANCE	11
TRAFFIC CONDITIONS WITH PROJECT (YEAR 2020)	
PROJECT TRIP GENERATION	
TRIP DISTRIBUTION/TRAFFIC ASSIGNMENT	
Option 1 – Old Highway 99N	
Option 2 – I-5 Southbound	
Trip Assignment	
Level of Service	
OTHER ISSUES	
CONCLUSIONS/RECOMMENDATIONS	21
SAFETY IMPACTS	2
LEVEL OF SERVICE STANDARDS	
OTHER ISSUES	21
MITIGATION MEASURES	22
TECHNICAL APPENDIX	23

INTRODUCTION

The following traffic impact analysis (TIA) was prepared to address the traffic related impacts of the proposed Grip Road Mine located in northern Skagit County. Skagit County Road Standards has identified two levels of traffic impact analyses: Level I and Level II. The Level I analysis is required for developments which generate 25 or more PM peak hour trips. A Level II analysis is required for developments which generate more than 50 PM peak hour trips.

It is expected the Grip Road Mine will generate approximately 4.6 trucks per hour under normal operation which is significantly less than the 25 PM peak hour trip threshold, established by Skagit County, which require a traffic impact analysis under Skagit County Road Standards.²

The Applicant has suggested that under abnormal circumstances, when extended hours are required, a reasonable upper limit of truck traffic would be 29.4 trips per hour. Although under the typical operation condition, a Level I analysis would not be required, under the "worst case" scenario, the extreme condition requiring extra hours of work, (29.4 trips per hour), a Level I analysis would be required.

According to the Skagit County Road Standards³; the purpose of a traffic impact analysis (TIA) is to:

- A. Determine the safety impacts a particular development will have on the regional road network.
- B. Establish whether the development will meet the County's level of service standards as adopted within the County's Comprehensive Plan.
- C. Determine mitigating measures necessary to alleviate safety issues and to meet the adopted level of service standards.

PROJECT DESCRIPTION

The Grip Road Mine project proposal will consist of dry mining sand and gravel limited to excavation and removal from the site. The mine contains approximately 68 acres. The mining operation is anticipated to yield approximately 4,280,000 cubic yards of sand and gravel over an approximate 25-year period; or approximately 200,000 cubic yards per year.

The property is located approximately 3.7 miles east of the I-5/Bow Hill Road Interchange, Exit 236. The *Grip Road Mine* development is located on the north side of Grip Road approximately 4,000 feet east of the Prairie Road/Grip Road intersection. The city of Bellingham is approximately 14 miles to the north and the city of Burlington is approximately 5 miles to the south. A vicinity map is provided in Figure 1.

Concrete Nor 'West has proposed normal operating hours of the Mine as Monday – Saturday, 7AM to 5PM contrasted to the normal hauling hours of Monday – Friday, 7AM to 5PM. For purposes of this traffic analysis, we have calculated the highest potential daily truck trips, assuming a Monday – Friday, 7AM to 5PM hauling schedule. Overall, weekly trucking volumes are not expected to increase with the addition of Saturday hauling. Please refer to the Traffic Conditions with Project section of this report for additional discussion of truck volumes.

Parking for employees, trucks, and operations vehicles will be available on-site. The applicant has indicated that one (1) to two (2) employees would be working on the site at maximum operation.

¹ Skagit County Road Standards; Version 5.2; Section 4.0 Traffic Analysis; May 26, 2000.

² Ibid

³ Ibid; Section 4.01 Traffic Impact Analysis; May 26, 2000

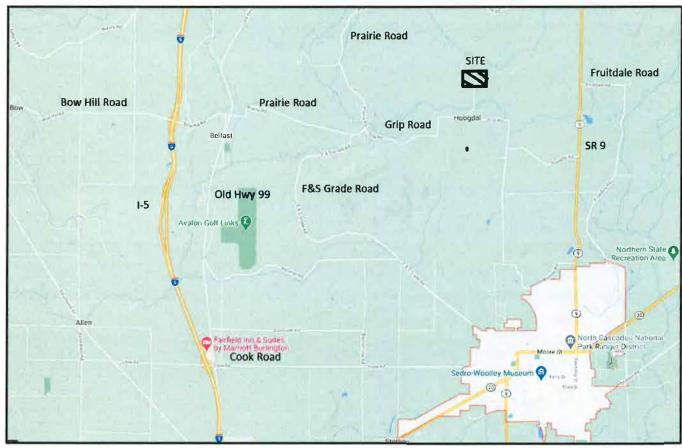


Figure 1 - Vicinity Map

Current zoning on the project site is Rural Reserve (RRv). According to the Skagit County Zoning Code⁴; "The purpose of the Rural Reserve district is to allow low-density development and to preserve the open space character of those areas not designated as resource lands or as urban growth areas. Lands in this zoning district are transitional areas between resource lands and non-resource lands for those uses that require moderate acreage and provide residential and limited employment and service opportunities for rural residents. They establish long-term open spaces and critical area protection using CaRDs as the preferred residential development pattern".

The parcels located adjacent and to the north, south and west of the subject site are zoned as Rural Resource Natural Resource Lands (RRc-NRL) and are utilized as low-density residential developments and forestry. RRc-NRL lands allow residential development of one (1) residential unit per 40 acres or four (4) residential units per 40 acres under the provisions of the Conservation and Reserve Development subdivision criteria, SCC 14.18.300. Properties adjacent to the east of the subject site are zoned as Agricultural-Natural resource Lands (AG-NRL) and are utilized for agriculture, low density residential developments and forest lands. Other Rural Reserve (RRv) zoned areas are located approximately ¼ of a mile to the east and west of the site and 1 mile to the south of the subject site.

⁴ Skagit County Zoning Code; Section 14.16.320; Rural Reserve;

Access to the proposed mining area is from the existing private gravel road extending north from Grip Road. The Grip Road Mine is expected to be operational by 2020. A preliminary site plan is provided in Figure 2.

EXISTING CONDITIONS (YEAR 2020)

The Existing Conditions analysis provides a statement of the traffic-related conditions within the study area at the time of the writing of this report. The statement includes discussion of the existing roadway conditions; pedestrian and bicycle facilities; identification of existing traffic volumes at the analysis intersections; and identification of proposed transportation improvements in the area.

Roadways

The major roadways serving the site include Interstate 5 (I-5), Bow Hill Road, Old Highway 99 N, Prairie Road, and Grip Road. The details for these roadways are as follows:

Interstate 5

Interstate 5 is a north-south interstate highway running from the Mexican border to the Canadian Border. I-5 is functionally classified as a "Rural Interstate" in the project area vicinity. It is a "Highway of Statewide Significance" (HSS) for the entire length of the highway through the state of Washington. In the vicinity of the project site, I-5 includes four lanes, two in each direction. The posted speed limit is 70 mph for general traffic and 60 mph for trucks. The roadway meets interstate standards for shoulder and lane widths. The interchange serving the site is Bow Hill Road, Exit 236.

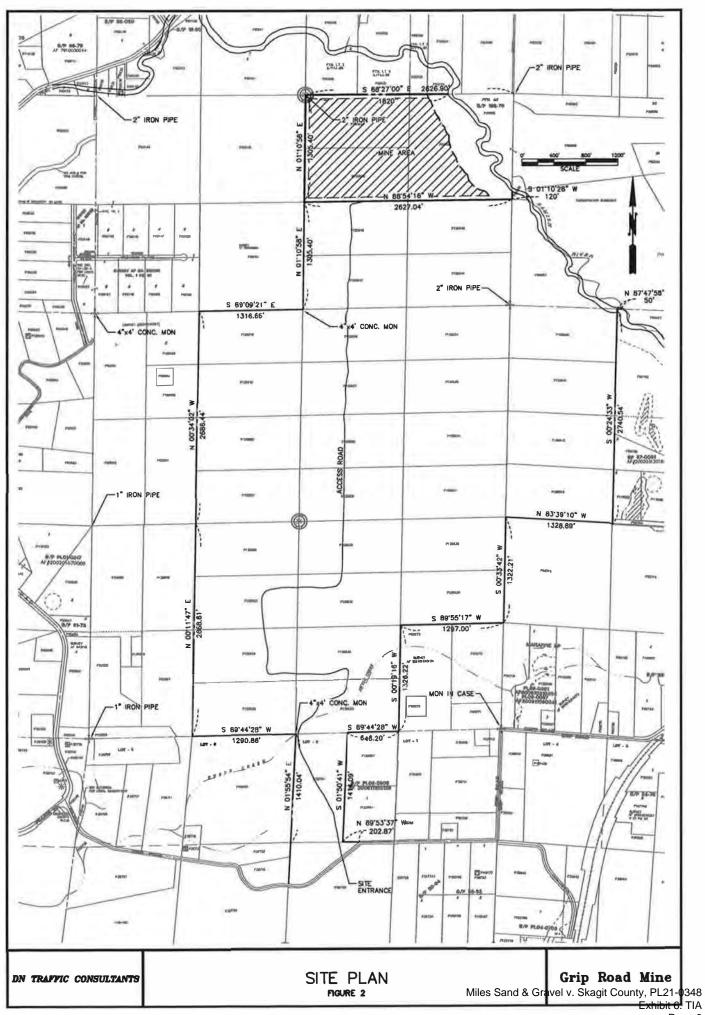
Old Highway 99 N

Old Highway 99 N is a north-south highway running parallel to I-5 from Nulle Road, Exit 242, on the north to Cedardale Road at I-5 Exit 224 south of Mount Vernon. Old Highway 99 is classified as a "Rural Major Collector" in the WSDOT Functional Classification System⁵. According to RCW 47.05.021⁶, the "collector system" shall consist of routes which primarily serve the more important inter county, intra county, and intraurban travel corridors, collect traffic from the system of local access roads and convey it to the arterial system, and on which, regardless of traffic volume, the predominant travel distances are shorter than on arterial routes."

In the project study area, Old Highway 99 N is approximately 22 feet wide and is channelized for one lane each direction with four (4) feet to six (6) feet paved shoulders generally augmented with

⁵ Ibid, WSDOT.

⁶ Ibid, RCW 47.



approximately six (6) feet of gravel shoulder. Traffic control consists of stop signs on all side street approaches. The posted speed limit is 50 mph. There are no designated bicycle or pedestrian facilities.

Bow Hill Road

Bow Hill Road generally runs east-west through northern Skagit County between Smith Road in the vicinity of Edison, Washington on the west and Old Highway 99 N on the east. It is classified as a "Rural Major Collector" in the WSDOT Functional Classification System.

In the project vicinity and study area, Bow Hill Road is approximately 22 feet wide with one lane in each direction with generally four (4) feet to six (6) feet paved shoulders and guardrail in selected locations. Bow Hill Road provides connection from the project area to I-5 and Chuckanut Drive (SR11), a major north south state highway west of I-5.

Traffic control includes a traffic signal at the Bow Hill Road/Darrk Lane/Bow Ridge Drive (Skagit Valley Casino) and "Stop Signs" on the minor intersecting side streets. Two way stop control is provided on Bow Hill Road at Old Highway 99 N. The posted speed limit is 35 mph. There are no designated bicycle or pedestrian facilities along this section of road.

Prairie Road

Prairie Road generally runs east-west between Old Highway 99 N on the west and SR 9 on the east in a curvi-linear route. It is classified as a "Rural Major Collector" in the WSDOT Functional Classification System between Old Highway 99 N and F&S Grade Road and a "Rural Minor Collector" between F&S Grade Road and SR 9.

In the project vicinity and study area, Prairie Road is approximately 22 feet wide with one lane in each direction along with generally narrow two (2) feet to four (4) feet paved or gravel shoulders. Traffic control typically includes "Stop Signs" on the minor intersecting side streets.

The posted speed limit is 35 mph for approximately 2250 feet beginning at Old Highway 99 N; then 50 mph to F & S Grade Road; then 40 mph from F & S Grade Road to Anderson Lane (approx); then 50 mph to Blank Road (approx); and then 40/35 mph in the section from Blank Road to SR 9. There are Warning Signs with advisory speeds along the entire route to address significant curves in the roadway.

There are no designated bicycle or pedestrian facilities along this section of road.

F&S Grade Road

F&S Grade Road generally runs north-south between and connects Prairie Road on the north and Borseth Street/Bingham Street in Sedro-Woolley to the south, in a curvi-linear route. It is classified as a "Rural Major Collector" in the WSDOT Functional Classification System for the majority of the section.

In the project vicinity and study area, F&S Grade Road is approximately 22 feet wide with one lane in each direction with a two (2) foot to four (4) foot paved or gravel shoulders. Traffic control includes a stop sign on F&S Grade Road at Prairie Road and Borseth Street and minor intersecting side streets along the corridor. The posted speed limit is 40 mph. There are no designated bicycle or pedestrian facilities along this section of road.

Grip Road

Grip Road generally runs east-west from Prairie Road on the west to Bassett Road on the east. Bassett Road continues to the east intersecting with SR 9 approximately 1.5 miles east of the Grip Road

Page 7

intersections. Grip Road is classified as a "Rural Minor Collector" in the WSDOT Functional Classification System.

In the project vicinity and study area, Grip Road is approximately 20 to 22 feet wide with one lane in each direction. There are virtually no shoulders along the roadway. Traffic control includes a stop sign on Grip Road at Prairie Road and Bassett Road as well as the minor intersecting side streets. The posted speed limit is 40 mph. The roadway channelization includes a solid double yellow centerline with passing striping opportunities, however there are no fog lines. There are no designated bicycle or pedestrian facilities along this section of road.

Transit/Non-Motorized Facilities

Transit

Transit service in Skagit County is provided by Skagit Transit. There is no transit service in the vicinity of the Grip Road Mine. The closest service is Route 80X. Route 80X provides weekday service between Bellingham Station and Skagit Station in Mount Vernon with one-hour headways during the AM and PM peak hours. Skagit Transit provides park & ride lots at Alger to the north and Chuckanut Drive in Burlington to the south.

By virtue of the traffic operational characteristics of mining activity proposed for the site, transit service would be of no benefit. It is not expected there would be any demand for transit service.

Non-Motorized Facilities

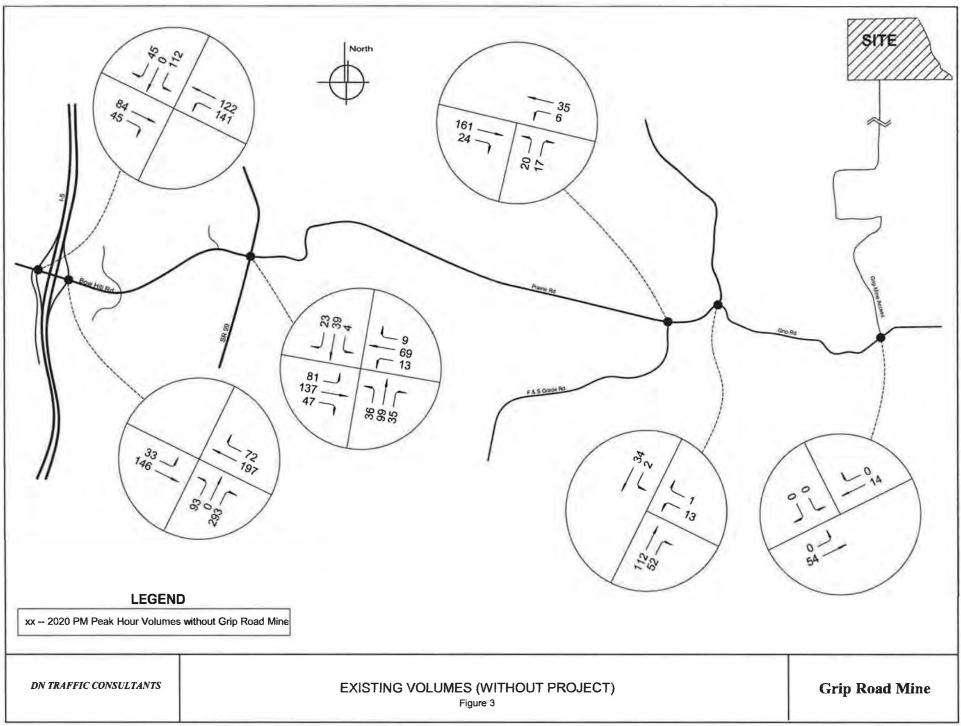
There are no known bike routes identified in the subject area. There are no pedestrian sidewalks or large shoulders on most of the subject roadways.

Traffic Volumes

2020 PM peak hour traffic volumes were determined from PM peak period turning movement counts collected at the following intersections in December 2019:

- I-5 SB Ramps/Bow Hill Road
- I-5 NB Ramps/Bow Hill Road
- Old Highway 99 N/Bow Hill Road/Prairie Road
- Prairie Road/F&S Grade Road
- Prairie Road/Grip Road

A summary of the existing PM peak hour turning volumes (without project traffic) is presented in Figure 3. The 2019 traffic volumes were increased by one percent to represent 2020 traffic conditions.



Level of Service

Level of service (LOS) is used to describe the degree of traffic congestion and driver comfort on streets or at intersections. The Highway Capacity Manual (HCM) describes the methodologies for calculating LOS on street segments and at signalized and unsignalized intersections.

According to the HCM (TRB Special Report #209), there are six levels of service by which the operational performance of the roadway system may be described. The levels of service range from LOS A, which indicates a relatively free-flowing condition, to LOS F, which indicates operational breakdown.

The level of service for a two-way stop controlled (TWSC) intersection is determined by the computed or measured control delay and is defined for each minor movement. Level of service is not defined for the intersection as a whole. Average control delay less than or equal to 10 seconds per vehicle is defined as LOS A. For LOS F, the average control delay is greater than 50 seconds per vehicle.

The level of service for an all-way stop controlled (AWSC) intersection is defined in terms of average control delay per vehicle. Level of service is defined for the intersection as a whole. Average control delay less than or equal to 10 seconds per vehicle is defined as LOS A. For LOS F, the average control delay is greater than 50 seconds per vehicle.

Level of service for this report was calculated using SynchroTM 9.0, the software of the HCM 2010. Old Highway 99 N is a Highway of Statewide Significance (HSS)⁷ and is subject to the relevant level of service (LOS) standards. The LOS for HSS highways in "Rural" Skagit County is LOS C⁸. According to the Skagit County Road Standards⁹, the level of service for county roadways is LOS C. The results of the level of service analysis for the existing condition at the analysis intersections are shown in Table 1.

Table 1. 2020 PM Peak Hour Level of Service

Intersection	Traffic Control	Existing PM Peak	LOS Standard
Bow Hill Road / I-5 SB Ramps	WB Left Turn (yield) SB Off Ramp (stop)	A (7.8) C (16.1)	С
Bow Hill Road / I-5 NB Ramps	EB Left Turn (yield) NB Off-Ramp (stop)	A (7.9) C (15.2)	С
Old Highway 99 N / Prairie Road	NB Left Turn (yield) SB Left Turn (yield) EB Approach (stop) WB Approach (stop)	A (7.5) A (7.5) C (15.2) B (12.4)	С
Prairie Road / F&S Road	WB Left Turn (yield) NB Approach (stop)	A (7.7) B (10.2)	С
Prairie Road / Grip Road	SB Left Turn (yield) WB Approach (stop)	A (7.7) A (9.6)	С

(xx) - Seconds of delay per vehicle

As shown in Table 1, all impacted intersections are estimated to operate at LOS C or above during the PM peak hour in the 2019 existing condition. This LOS is acceptable under the Skagit County standard of LOS C.

⁷ http://wsdot.maps.arcgis.com/home/webmap/viewer.html?useExisting=1&layers=9fcb9e36ab67438dafe7b0fb0764481f

⁸ http://www.wsdot.wa.gov/NR/rdonlyres/6AF72388-2455-47B9-B72D-2BE9A89A0E19/0/LOSStandardsforWAHwys.pdf

Skagit County Road Standards; Section 4.05 A.2; Level of Service; Version 5.2; May 26, 2000.

Crash History

Crash data for the study area intersections was obtained from WSDOT for the five-year plus period from January 1, 2015 through April 6, 2020, which was the most recent available at the time of this analysis. Crashes for each intersection were summarized by the milepost vicinity of each intersection identified in the records. These crashes were assumed as intersection related unless the description clearly identified as otherwise. A summary of available crash data is presented in Table 2.

Table 2: Five Year Crash History Summary by Intersection ^a

		Crash	Crash					
Intersection	2015	2016	2017	2018	2019	2020a	Total	Rate b
I-5 SB Ramps/Bow Hill Road	3	2	0	2	0	0	7	0.60
I-5 NB Ramps/Bow Hill Road	0	1	2	1	0	1	5	0.28
Old Highway 99 N/Bow Hill Road/Prairi	e Road 2	4	3	1	2	0	12	0.96
Prairie Road/F&S Grade Road	1	0	0	0	0	0	1	0.18
Prairie Road/Grip Road	0	0	2	0	1	0	3	0.67

a Source: WSDOT, data period is 1/1/15 through 4/6/20. Note: Under 23 US Code 409 and 23 US Code 148, safety data, reports, surveys, schedules, lists compiled or collected for the purpose of identifying, evaluating, or planning the safety enhancement of potential crash sites, hazardous roadway conditions, or railway-highway crossings are not subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location mentioned or addressed in such reports, surveys, schedules, lists, or data.

As shown in Table 2, the crash rate ranges between 0.18 cra/mev and 0.96 cra/mev for the five analysis intersections, for the 5-year plus period. The Institute of Transportation Engineers (ITE) recommends that any intersection with more than one (1) crash per million entering vehicles may be worthy of additional analysis.¹⁰

The most common type of crash, within the study area, is "enter-at-angle". Table 3 identifies the number of occurrences by crash type at each of the five intersections. As shown in Table 3, the "enter-at-angle" ("angle") type crash is the most prevalent type of crash at each of the five intersections. It should be noted that Table 3 shows all the crashes occurring in the vicinity of each intersection (i.e.., intersection related), as noted in the WSDOT crash data records. Any crash identified as non-intersection related was not included in this analysis.

b Crashes per million entering vehicles per period (cra/mev). Entering vehicles based on 2017 PM peak hour data * 11. Period is total number of days.

¹⁰ Traffic Impact Analyses for Site Development, An ITE Recommended Practice; Institute of Transportation Engineers; 2010.

Table 3. Five-Year Crash Type History by Intersection ^a

Intersection Related	Rear End	Angle	Left Turn	Fixed Object	Other
				- cy	
4	0	2	2	0	0
	0%	50%	50%	0%	0%
5	2	2	0	1	0
	40%	40%	0%	20%	0%
12	1	9	1	0	1
	8%	75%	8%	0%	8%
1	0	0	0	1	0
	0%	0%	0%	100%	0%
3	0	2	0	1	0
	0%	67%	0%	33%	0%
	Related 4 5 12	Related End 4 0 0% 5 2 40% 12 1 8% 1 0 0% 3 0	Related End Angle 4 0 2 0% 50% 5 2 2 40% 40% 12 1 9 8% 75% 1 0 0 0% 0% 3 0 2	Related End Angle Turn 4 0 2 2 0% 50% 50% 5 2 2 0 40% 40% 0% 12 1 9 1 8% 75% 8% 1 0 0 0 0% 0% 0% 3 0 2 0	Related End Angle Turn Object 4 0 2 2 0 5 2 2 0 1 40% 40% 0% 20% 12 1 9 1 0 8% 75% 8% 0% 1 0 0 0 1 0% 0% 0% 100% 3 0 2 0 1

a Source WSDOT. For the period between 1/1/15 and 4/6/20.

Table 4 identifies the crash severity for the five-year plus crash history at each of the analysis intersections.

Table 4. Five-Year Plus Crash Severity History by Intersection ^a

11	Total Crashes	Property Only	Injury Related	Fatality	Total Vehicles	Total Pedestrians	Total Bicycles
I-5 SB Ramps/Bow Hill Road	7	5	1	1	13	0	1
I-5 NB Ramps/Bow Hill Road	5	4	1	0	9	0	0
Old Highway 99 N/Bow Hill Road/Prairie Road	10	5	5	0	19	0	0
Prairie Road/F&S Grade Road	1	0	1	0	1	0	0
Prairie Road/Grip Road	3	2	1	0	4	0	0

a Source WSDOT. For the period between 1/1/15 and 4/6/20.

In terms of crash severity, of the total 26 crashes noted during the five year plus crash history, there were 46 vehicles involved, one bicycle crash: and no pedestrian crashes. Of all the crashes, 61% were "property damage only" (PDO), 39% resulted in injury (reported as possible or evident), with one of those being identified as a fatal crash. The fatality occurred at the I-5 SB Ramps/Bow Hill Road intersection on May 20, 2015 at 7:12 PM. The fatal crash included a single vehicle (pickup) making a west bound left turn from Bow Hill Road to the southbound on-ramp colliding with a bicycle east bound across the I-5 interchange on Bow Hill Road.

Planned and Programmed Improvements

A review of the WSDOT Statewide Transportation Improvement (STIP)¹¹ and the Skagit County indicated there are no proposed transportation improvement projects to the roadways in the vicinity of the proposed Grip Road Mine.

¹¹ https://www.wsdot.wa.gov/LocalPrograms/ProgramMgmt/STIP.htm

Sight Distance

The proposed Grip Road Mine development will use the existing access from the property to Grip Road. The sight distance analysis looks at Stopping Sight Distance (SSD) and Intersection Sight Distance (ISD) at the Grip Road/Site access, at the Prairie Road/Grip Road intersection, and at the Prairie Road/F&S Grade Road intersection. The Applicant is responsible for providing acceptable SSD and ISD at the Grip Road/Site Access intersection. Existing sight distance at the Prairie Road/Grip Road and Prairie Road/F&S Grade Road intersection is the responsibility of Skagit County. If sight distance deficiencies exist at these intersections, it is the responsibility of the County to make necessary improvement to provide acceptable sight distance.

A summary of the available and minimum required stopping sight distance is all presented in Table 5.

Table 5. Stopping Sight Distance^a

Intersection	Minimum Required ^b	Design Speed ^c		ight Distance servations
Prairie Road/F&S Grade Road	305' / 425'	40 / 50 ^d	380' from the east 115' from the north 345' from the east	2000+' from the west
Prairie Road/Grip Road	305'	40		625' from the west
Grip Road/ Site Access	305'	40		500' from the west

- Stopping Sight Distance All intersection locations were assumed to be at less than 3% grade with no vertical curves. The limiting element observed in the sight distance measurements was the horizontal curvature of the primary road.
- b Minimum distance required for an approaching vehicle, based on design speed.
- c Design speed is assumed as the posted speed (mph).
- d The posted speed on Prairie Road east of F&S Grade Road is 40 mph, and the posted speed west of F&S Grade Road is 50 mph. The corresponding minimum P Vehicle SSD is shown as xxx'/yyy'.

As shown in Table 5, the stopping sight distance is met for all the cases, except for one, i.e. Prairie Road/Grip Road looking to the north. For a vehicle on Prairie Road approaching Grip Road from the north, there is a sharp horizontal curve that limits the available stopping sight distance to approximately 115 feet which is less than the minimum required distance of 305 feet based on a 40 mph Design Speed. There are posted warning signs on approach from both directions that recommend a 20-mph speed through the curve. The required minimum SSD for a 20-mph case is 115 feet.

A summary of the available Intersection Sight Distance (ISD) conditions for a standard passenger vehicle as well as a combination truck are presented in Table 6.

Table 6. Intersection Sight Distance

Intersection	Minimum Required ^a P Veh (Truck)	Design Speed ^b	Field Obse	rvations ^c
Prairie Road/F&S Grade Road Prairie Road/Grip Road Grip Road/ Site Access	445'/555' (n/a) 445' (680') 445' (680')	40/50 ^d 40 40	480' to the east 185' to the north 375' to the east	2000+' to the west 625' to the west 500' to the west

a Intersection Sight Distance – Based on the AASHTO Green Book, Case B1 Left Turn from Stop for a two-lane roadway. The typical time gap is 7.5 seconds for a passenger vehicle, and 11.5 seconds for a combination truck.

As shown in Table 6, the available intersection sight distance (ISD) exceeds the required distance at the Prairie Road/F&S Grade Road intersection for the "P" vehicle. The ISD for trucks does not meet the standard, however, the ISD standard is not applicable to this analysis as truck traffic from the Grip Road Mine is not expected to use F&S Grade Road.

At the Prairie Road/Grip Road intersection, the available ISD (185') is less than the minimum required for both a passenger vehicle (445') and a combination truck (680') looking right (north) and turning left (west) from Grip Road. The ISD (625') looking to the left exceeds the required value (445') for a passenger vehicle but is less than what is required (680') for a combination truck.

At the Grip Road Mine access intersection, the ISD (375') is less than the minimum for both a passenger vehicle and a combination truck looking left (east) and turning right (west) from the Mine access. The ISD (500') looking to the right (west), for turning left out, exceeds the standard for a passenger vehicle (445') but is less than that required for a combination truck (680'). In this case, it is estimated there would be no more than one (1) left turning truck during the PM peak hour from the Mine access road. The WSDOT Design Manual¹², however, indicates that ISD is not required for low volume roadways such as Grip Road.

b Design speed is assumed as the posted speed (mph).

c Measurements are from an eye location 14.5 feet back from edge of traveled way viewing an approaching vehicle 3.5 feet in height.

d The posted speed on Prairie Road east of F&S Grade Road is 40 mph, and the posted speed west of F&S Grade Road is 50 mph. The corresponding minimum P Vehicle ISD is shown as xxx'/yyy'.

¹² WSDOT Design Manual; Section 1310.05 Intersection Sight Distance.

TRAFFIC CONDITIONS WITH PROJECT (YEAR 2020)

The traffic conditions "with Project" provides a discussion of the traffic-related conditions for the current year (2020) with the project in operation. Due to the fact the "with project" analysis is for the existing year, there are no discussions of historical growth rates or pipeline development. There are no known developmental proposals in this area, currently under consideration by Skagit County.

Project Trip Generation

Trip generation for the proposed Grip Mine project has been discussed in previous technical memoranda.¹³ The current proposal anticipates a trip generation of 46 truck trips per day under normal 7AM to 5PM Monday through Friday hauling operation. The proposal assumes the mining operation would generate 200,000 tons per year with hauling operations occurring over 260 days. Assuming each truck & trailer combination will average 34-ton loads, this results in 769 tons per day. Assuming hauling would occur Monday through Friday between 7 AM and 5 PM for, a total of 10 hours, average truck trips per hour is 4.6 (46/10 = 4.6).

If the Mine were operated over a six-day week, Monday through Saturday, mining operations would be conducted for 312 (52 * 6 = 312) days per year. This would result in an average of 38 (200,000 tons/312 days = 641 tons per day/34 tons per truck = 18.9 trucks * 2 trips per truck = 38 trips per day) truck trips per day under the six day scenario as compared to 46 truck trips per day under the five day operational scenario.

Under extended hours conditions, it is anticipated the Mine could generate up to 5000 tons per day. To serve this demand, 294 (5000/34 = 147 * 2 = 294) truck trips would be generated per day. Assuming the Mine would operate for the standard ten-hour (7AM to 5PM) period, the hourly truck volume would be 29.4 (294/10 = 29.4) trucks per hour. This volume is still considered to be significantly less than the capacity of Grip Road which is approximately 110 trucks per hour. This TIA analysis is based on the "worst case" trip generation for the Mine of 30 truck trips during the PM peak hour.

In summary, truck trips generated by the proposal are anticipated to average 46 daily trips during mining operations not to exceed 30 trucks per hour under extended hours operations. To address the extended hours conditions, the Applicant will seek permission from Skagit County prior to generating the higher truck volume.

Trip Distribution/Traffic Assignment

Truck traffic generated by the Grip Road Mine will be distributed and assigned to the following public roads as haul routes for the mined material:

- Grip Road
- Prairie Road
- Old Highway 99N
- Bow Hill Rd
- Interstate 5

It is estimated that 95 percent of the trips will be assigned to and from the west on Prairie Road; with 80 percent south to the existing Belleville Pit Operation using either Old Highway 99N or I-5 south; ten (10) percent of the trips to end users via I-5 south, five (5) percent to end users west of I-5 on Bow Hill Road; and five (5) percent to end users east of the Mine access via Grip Road. Overall, it is estimated, based on market demand, that 80 percent of the mined material will be sent to the Belleville Pit Operation located at 8198 Old Highway

13

¹³ Technical Memorandum; To Dan Cox, Miles Sand and Gravel; From Gary Norris, DN Traffic Consultants, Inc.; June 6, 2019.

99N south of the Prairie Road intersection for processing. The remaining twenty (20) percent will be sent from the Mine directly to end users.

At the writing of this TIA, the Old Highway 99N bridge over the Samish River has a temporary weight restriction of 80,000 pounds to 96,000 pounds. The weight of the proposed fully loaded truck/pup trailer combination, serving the Mine is 105,500 pounds, which is significantly higher than the maximum load restrictions. As such, at maximum load these trucks would not be able to use Old Highway 99N to the Belleville pit and would be forced to used I-5 south to the Cook Road interchange (Exit 232) due to the weight restrictions on the Samish River Bridge However, unloaded trucks returning from the Belleville pit to the Mine would use Old Highway 99N. No matter what the load restriction, Concrete Nor 'West agrees to comply with Skagit County restrictions on the bridge. If unable to use the Samish River Bridge on Highway 99N, Concrete Nor 'West will use I-5 to access the Belleville site rather than Old Highway 99N.

Given the potential temporary weight restrictions on the bridge, the traffic assignment as well as the subsequent level of service analysis is evaluated under two Options. Option 1 assumes trucks use Old Highway 99N over the bridge with either reduced weight trucks or the load restrictions being removed. Option 2 assumes trucks circumvent the Samish River bridge and use I-5 to Cook Road for trips bound for the Belleville Pit, and Old Highway 99N for return trips.

Option 1 – Old Highway 99N

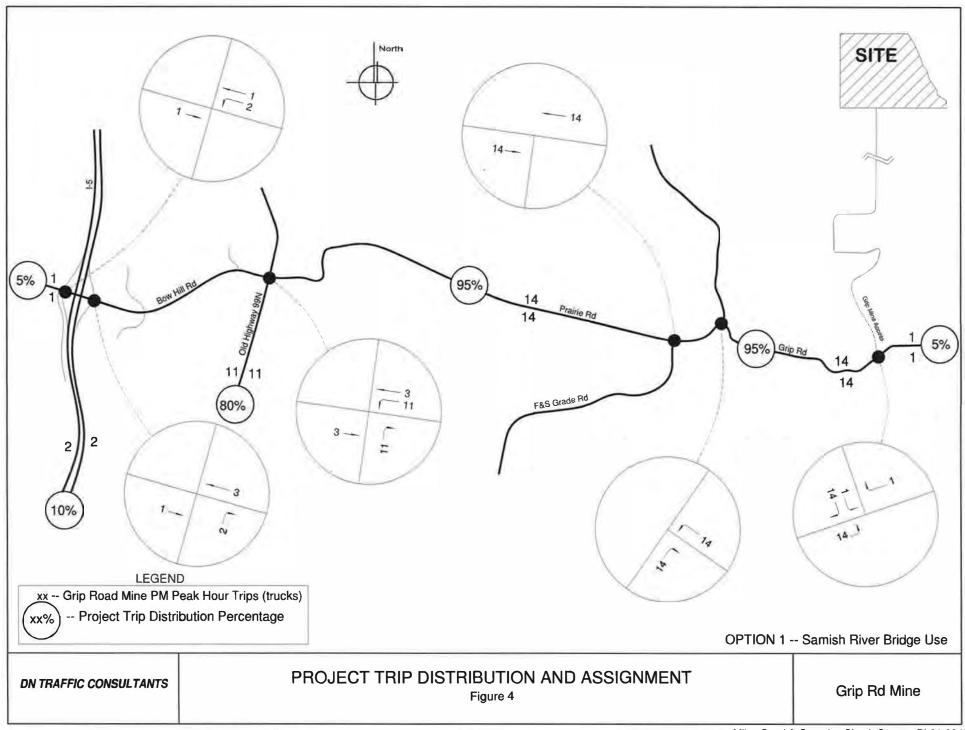
Project Trip Assignment

For Option 1, it is estimated 95 percent of the hauling trips, will be to and from the west on Prairie Road; 80 percent south on Highway 99 N to the existing Belleville Pit Operation; approximately ten percent of the truck trips will be sent to end users via I-5 south, five (5) percent to end users west of I-5 on Bow Hill Road; and five (5) percent to end users east of the Mine access via Grip Road.

The Option 1 project trip assignment for the PM peak hour is shown in Figure 4. A summary of the 2020 PM peak hour turning volumes (with project traffic) is presented in Figure 5.

Level of Service

The 2020, with and without project, PM peak hour level of service at the analysis intersections are provided in Table 8. The level of service condition for existing conditions without the project is shown for comparison purposes.



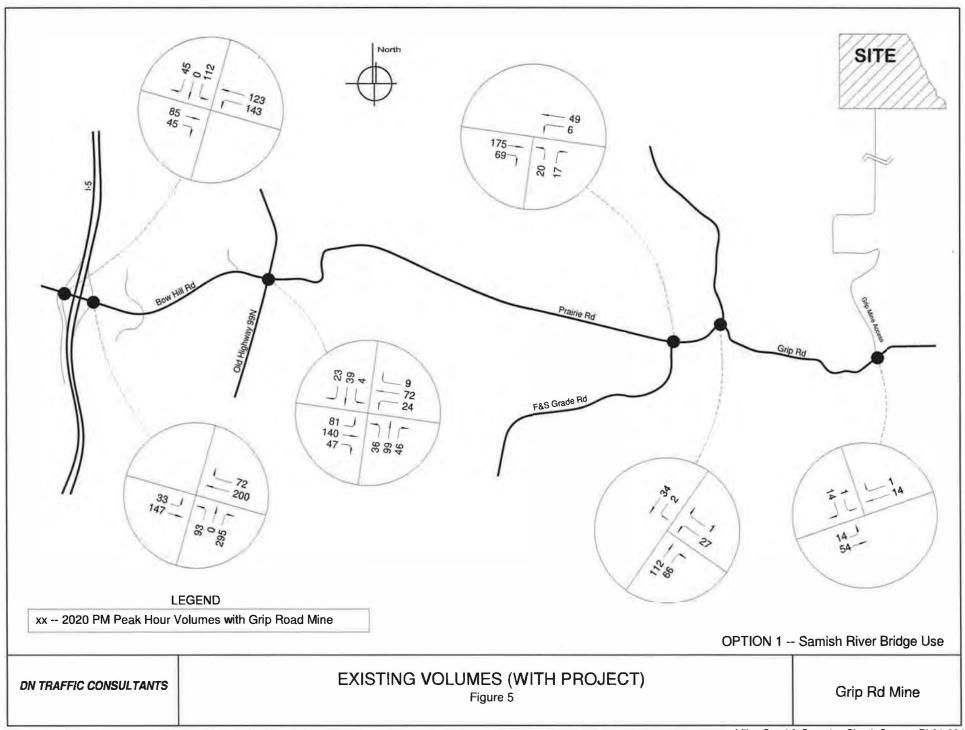


Table 8. Option 1 - 2020 with and without Project -- PM Peak Hour Level of Service

Intersection	Traffic Control	Without Project LOS (Delay)	With Project LOS (Delay)	LOS Standard
Bow Hill Road / I-5 SB Ramps	WB Left Turn (yield) SB Off Ramp (stop)	A (7.8) C (16.1)	A (7.8) C (16.4)	С
Bow Hill Road / I-5 NB Ramps	EB Left Turn (yield) NB Off-Ramp (stop)	A (7.9) C (15.2)	A (7.9) C (15.3)	С
Old Highway 99 N / Prairie Road	NB Left Turn (yield) SB Left Turn (yield) EB Approach (stop) WB Approach (stop)	A (7.5) A (7.5) C (15.2) B (12.4)	A (7.5) A (7.5) C (15.9) B (13.4)	С
Prairie Road / F&S Road	WB Left Turn (yield) NB Approach (stop)	A (7.7) B (10.2)	A (8.1) B (10.4)	С
Prairie Road / Grip Road	SB Left Turn (yield) WB Approach (stop)	A (7.7) A (9.6)	A (7.7) A (10.5)	С
Grip Road / Project Access	EB Left Turn (yield) SB Approach (stop)	n/a	A (7.5) A (9.4)	С

(xx) - Seconds of delay per vehicle

As shown in Table 8, all the intersections are estimated to operate at an acceptable level of service (LOS C or better) in the 2020 PM peak with or without project traffic.

Option 2 – I-5 Southbound

Trip Assignment

For Option 2, it is estimated 95 percent of the hauling trips, will be to and from the west on Prairie Road; 90 percent south on I-5 with 80% exiting at Cook Rd and traveling north on Old Highway 99 N to the existing Belleville Pit Operation; approximately ten percent of the truck trips are sent to end users via I-5 south, five (5) percent to end users west of I-5 on Bow Hill Road; and five (5) percent to end users east of the Mine access via Grip Road. Trips returning from the Belleville Pit to the Mine (80%) are presumed to use Old Highway 99N.

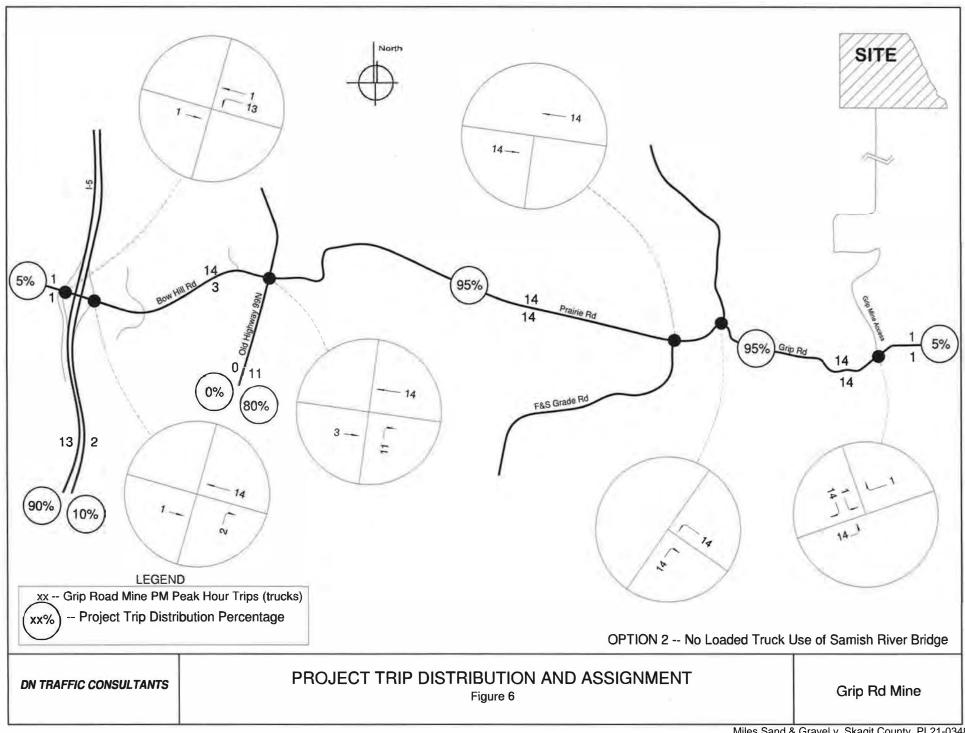
The Option 2 project trip assignment for the PM peak hour is shown in Figure 6. A summary of the 2020 PM peak hour turning volumes (with project traffic) is presented in Figure 7.

Level of Service

The 2020 with and without project PM peak hour level of service at the analysis intersections are provided in Table 9. The level of service condition for 2020 conditions without the project is shown for comparison purposes.

As shown in Table 9, all the intersections are estimated to operate at an acceptable level of service (LOS C or better) in the 2020 PM peak with or without project traffic.

Page 19



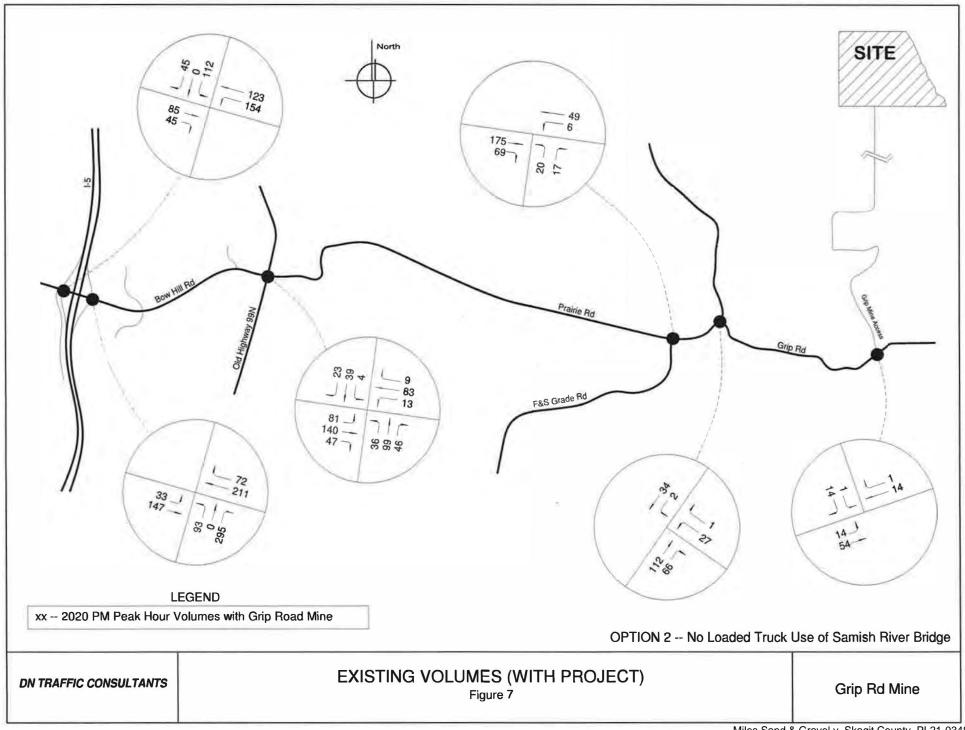


Table 9. Option 2 - 2020 with and without Project -- PM Peak Hour Level of Service

Intersection	Traffic Control	Without Project LOS (Delay)	With Project LOS (Delay)	LOS Standard
	WB Left Turn (yield)	A (7.8)	A (7.8)	
Bow Hill Rd / I-5 SB Ramps	SB Off Ramp (stop)	C (16.1)	C (17.0)	С
	EB Left Turn (yield)	A (7.9)	A (7.9)	С
Bow Hill Rd / I-5 NB Ramps	NB Off-Ramp (stop)	C (15.2)	C (15.5)	
	NB Left Turn (yield)	A (7.5)	A (7.5)	
	SB Left Turn (yield)	A (7.5)	A (7.5)	С
Old Highway 99 N / Prairie Road	y 99 N / Prairie Road EB Approach (stop)		C (15.9)	C
	WB Approach (stop)	B (12.4)	B (13.0)	
	WB Left Turn (yield)	A (7.7)	A (8.1)	С
Prairie Rd / F&S Road	NB Approach (stop)	B (10.2)	B (10.4)	C
	SB Left Turn (yield)	A (7.7)	A (7.7)	С
Prairie Rd / Grip Road	WB Approach (stop)	A (9.6)	A (10.5)	C
	EB Left Turn (yield)	2/0	A (7.5)	С
Grip Rd / Project Access	SB Approach (stop)	n/a	A (9.4)	C

(xx) - Seconds of delay per vehicle

As shown in Table 9, similar to Table 8, all the intersections are estimated to operate at an acceptable level of service (LOS C or better) in the 2020 PM peak with or without project traffic.

Other Issues

Other concerns expressed regarding the proposed mining operation include the impact of the truck traffic on the anticipated haul routes serving the Mine. Based on the traffic assignment prepared for this analysis, it is assumed the following roadways will be impacted by project generated truck traffic:

- Grip Road
- Prairie Road
- Old Highway 99N
- Bow Hill Road

The existing Prairie Road and Grip Road pavement cross sections are not consistent with current Skagit County Road Standards. County Road Standards require a shoulder width on Grip Road of six (6) feet on both sides of the roadway¹⁴ whereas the standard shoulder width on Prairie Road should be eight (8) feet. Currently there is virtually no paved shoulders along Grip Road and between two (2) feet and four (4) feet on Prairie Road. Prairie Road has a number of curves which would force the dump truck/pup rigs to encroach on the centerline or the shoulder.

¹⁴ Skagit County Road Standards; Figure B-6

Skagit County expressed concern regarding the potential for the gravel trucks to encroach over the shoulder and center line of these roadways. To address this concern, Skagit County staff requested the Applicant evaluate the potential for the trucks to travel outside their lane of travel and encroach on the shoulder or the opposite lane of travel through the 90 degree turns east of Old Highway 99. The Consultant prepared an AutoTurn® analysis of these turns on Prairie Road approximately 1200 lineal feet and 1800 lineal feet east of the Prairie Road/Old Highway 99 intersection. Based on this analysis, it was estimated the dump truck/pup trailer combination is expected to encroach approximate two (2) to three (3) feet onto the shoulder or over the centerline.

The findings of the AutoTurn® analysis is presented in the appendix.

CONCLUSIONS/RECOMMENDATIONS

According to the Skagit County Road Standards¹⁵ the purpose of a traffic Impact Analysis (TIA) is to:

- A Determine the safety impacts a particular development will have on the regional road network.
- B Establish whether the development will meet the County's level of service standards as adopted within the County's Comprehensive Plan.
- C. Determine mitigating measures necessary to alleviate safety issues and to meet the adopted level of service standards.

Safety Impacts

The foregoing TIA identified current crash history at the intersections anticipated to be impacted by the proposed Grip Road Mine traffic. The most significant safety issue is the Bow Hill Road/Old Highway 99 N intersection where twelve (12) intersection related crashes occurred over the five year plus crash history identified in the report. The majority of these crashes were "enter at angle". Traffic control at this intersection includes stop signs on Bow Hill Road and Prairie Road. To improve the safety of this intersection, it is recommended the existing channelization be revised to eliminate the high-speed radii that exist for north and south bound right turn movement. The pavement stripe delineating the radii line should be enhanced with raised reflectorized pavement markings to provide better lane delineation. Also, additional stop signs should be installed on the opposite shoulder. All stop signs should be supplemented with LED flashers.

The analysis identified substandard Intersection Sight Distance (ISD) at the Mine Access/Grip Road intersection and the Prairie Road/Grip Road intersection. As stated previously, the provision of adequate sight distance at the Prairie Road/Grip Road intersection is the responsibility of Skagit County. However, to address these substandard conditions, the Applicant has proposed the installation of a flashing beacon warning system to advise traffic the presence of turning truck traffic. In addition, the signal will also inform the Mine traffic of the presence of conflicting traffic approaching the intersection.

Level of Service Standards

The traffic analysis documented that the Skagit County Road Standard level of service requirements are met at each intersection impacted by the traffic generated by Grip Road Mine. These findings are true for both alternative traffic assignment Options. Therefore, no mitigation is required.

Other Issues

Potential encroachment of the dump trucks/pup combination on the shoulder and center line is a safety concern. It should be noted the roadways are not consistent with current Skagit County Road Standards for shoulder width.

¹⁵ Ibid; Section 4.01 Traffic Impact Analysis; May 26, 2000

This is a current issue for County roads which needs to be addressed by the County. Based on a recent count, Grip Road currently has three (3) percent of the total traffic volume or 23 vehicles which have axle combinations which would encroach on the shoulder or into the opposing lane.

Mitigation Measures

The following mitigation measures are offered to address the traffic related issues of the proposed Grip Road Mine:

- The Applicant shall purchase and install, at their expense, a traffic loop activated flashing beacon system in the area of the Grip Road and Prairie Road intersection to address the sight distance deficiencies. The Applicant will submit a proposed plan for Skagit County review and approval. All equipment and signage to be installed shall meet the standards and specifications of the Skagit County Public Works. After installation, equipment will be turned over to Skagit County for ongoing operation and maintenance.
- The Applicant shall purchase and install at their expense, a traffic loop activated flashing beacon system in the area of the Grip Road and Mine Access Road intersection to address the sight distance deficiencies. The Applicant will submit a proposed plan for Skagit County review and approval. All equipment and signage that is to be installed shall meet the standards and specifications of the Skagit County Public Works. After installation, equipment will be turned over to Skagit County for ongoing operation and maintenance.
- The Applicant agrees comply with all Skagit County load restrictions on the Samish River bridge on Old Highway 99. If the dump truck/pup trailer combinations exceed the load restrictions, the Applicant will use Interstate 5 for south bound access to the Belleville pit located on Old Highway 99 south of the Samish River bridge.

TECHNICAL APPENDIX

FOR

GRIP ROAD MINE

GRIP ROAD MINE

Bow Hill Rd / I-5 SB Ramps

PM Peak Hour: 4:45 PM - 5:45 PM Date Collected: 12/18/2019

EBLT 0 Existing PM Peak Hour 45	2020 PM Peak Hour	99 Peak Hour Factor	1 Percent Trucks	0 L O Grip Road Mine	2020 PM Pk Hr w/Project	1 Bercent Trucks
WBLT 140 WBT 121 WBRT 0	141 122 0	0.92	4 1.5%	2 1 0	143 123 0	3 2.6%
NBLT 0 NBT 0 NBRT 0	0 0 0	0.00	0 0.0%	0 0 0	0 0 0	0 0.0%
SBLT 111 SBT 0 SBRT 45	112 0 45	0.68	5 3.2%	0 0 0	112 0 45	0 3.2%
545	549	0.89		4	553	

GRIP ROAD MINE Bow Hill Rd / I-5 NB Ramps

PM Peak Hour: 4:30 PM - 5:30 PM

Date Collected: 12/20/2019

EBLT EBT EBRT	O 95 Existing PM Peak Hour	0 9 1 8 2020 PM Peak Hour	9 Peak Hour Factor	3 1.7%	O L O Grip Road Mine	0 2020 PM Pk Hr w/Project	1 2.2%
WBLT WBT WBRT	0 195 71	0 197 72	0.90	2 0.8%	0 3 0	0 200 72	3 1.8%
NBLT NBT NBRT	92 0 290	93 0 293	0.89	9 2.4%	0 0 2	93 0 295	2 2.8%
SBLT SBT SBRT	0 0	0 0	0.00	0 0.0%	0 0 0	0 0 0	0 0.0%
	826	834	0.93		6	840	

GRIP ROAD MINE SR 99 / Prairie Rd

PM Peak Hour: 4:00 PM - 5:00 PM

Date Collected: 12/18/2019

EBLT EBT EBRT	08 Existing PM Peak Hour	81 137 47	Peak Hour Factor	Percent Trucks	ο ω ο Grip Road Mine	2020 PM Pk Hr w/Project	Bercent Trucks
WBLT WBT WBRT	13 68 9	13 69 9	0.90	11 12.2%	11 3 0	24 72 9	14 23.8%
NBLT NBT NBRT	36 98 35	36 99 35	0.90	14 8.3%	0 0 11	36 99 46	11 13.8%
SBLT SBT SBRT	4 39 23	4 39 23	0.53	2 3.0%	0 0 0	4 39 23	0 3.0%
	588	592	0.94		28	620	

GRIP ROAD MINE Prairie Rd / F&S Rd

PM Peak Hour: 5:00 PM - 6:00 PM

Date	Collected:	12/17/2019
------	------------	------------

EBLT EBT EBRT	5 O Existing PM Peak Hour	0 2020 PM Peak Hour	Peak Hour Factor	Percent Trucks	O 5 O Grip Road Mine	2020 PM Pk Hr 0 w/Project	Percent Trucks
WBLT WBT WBRT	6 35 0	6 35 0	0.75	1 2.4%	0 14 0	6 49 0	14 27.3%
NBLT NBT NBRT	20 0 17	20 0 17	0.80	3 8.1%	0 0 0	20 0 17	0 8.1%
SBLT SBT SBRT	0 0 0	0 0 0	0.00	0 0.0%	0 0	0 0 0	0 0.0%
	261	263	0.78		28	291	

GRIP ROAD MINE Prairie Rd / Grip Rd

PM Peak Hour: 5:00 PM - 6:00 PM

Date Collected: 12/16/2019

EBLT EBT EBRT	O O Existing PM Peak Hour	O O O 2020 PM Peak Hour	O Peak Hour Factor	o Percent Trucks	o o o Grip Road Mine	O O W/Project	o Solution Percent Trucks
WBLT WBT WBRT	13 0 1	13 0 1	0.46	0 0.0%	14 0 0	27 0 1	14 50.0%
	0 111 51	0 112 52	0.93	9 5.6%	0 0 14	0 112 66	14 12.9%
SBLT SBT SBRT	2 34 0	2 34 0	0.65	3 8.3%	0 0 0	2 34 0	0 8.3%
2	212	214	0.9		28	242	

GRIP ROAD MINE Grip Rd / Site Access

PM Peak Hour: n/a
Date Collected: n/a

EBLT EBT EBRT	O S O Existing PM Peak Hour	O 99 O 2020 PM Peak Hour	x Peak Hour Factor	× Percent Trucks	0 O FI Grip Road Mine	0 9 4 w/Project	Dercent Trucks
WBLT WBT WBRT	0 14 0	0 14 0	x	х	0 0 1	0 14 1	1 6.7%
NBLT NBT NBRT	0 0 0	0 0 0	x	х	0 0 0	0 0	0 0.0%
SBLT SBT SBRT	0 0 0	0 0	x	х	1 0 14	1 0 14	15 100.0%
	67	68	0.9		30	98	

GRIP ROAD MINE

Bow Hill Rd / I-5 SB Ramps

PM Peak Hour: 4:45 PM - 5:45 PM

Date Collected: 12/18/2019

EBLT EBT EBRT	5 8 0 Existing PM Peak Hour	9 0 2020 PM Peak Hour	99 Peak Hour Factor	Percent Trucks	Grip Road Mine (Option 2 assignment)	2020 PM Pk Hr w/Project	1 Bercent Trucks
WBLT WBT WBRT	140 121 0	141 122 0	0.92	4 1.5%	13 1 0	154 123 0	14 6.5%
NBLT NBT NBRT	0 0 0	0 0	0.00	0 0.0%	0 0	0 0 0	0 0.0%
SBLT SBT SBRT	111 0 45	112 0 45	0.68	5 3.2%	0 0 0	112 0 45	0 3.2%
	545	549	0.89		15	564	

GRIP ROAD MINE Bow Hill Rd / I-5 NB Ramps

PM Peak Hour: 4:30 PM - 5:30 PM

Date Collected: 12/20/2019

EBLT THE THE THE THE THE THE THE THE THE TH	0 8 2020 PM Peak Hour	Peak Hour Factor	Bercent Trucks	O - O 2 assignment)	0 2020 PM Pk Hr w/Project	Percent Trucks
WBLT 0 WBT 195 WBRT 71	0 197 72	0.90	2 0.8%	0 14 0	0 211 72	14 5.7%
NBLT 92 NBT 0 NBRT 290	93 0 293	0.89	9 2.4%	0 0 2	93 0 295	2 2.8%
SBLT 0 SBT 0 SBRT 0	0 0 0	0.00	0 0.0%	0 0 0	0 0	0 0.0%
826	834	0.93		17	851	

GRIP ROAD MINE SR 99 / Prairie Rd

PM Peak Hour: 4:00 PM - 5:00 PM

Date Collected: 12/18/2019

EBLT EBT EBRT	13 B Existing PM Peak Hour	137 137 47	Peak Hour Factor	Percent Trucks	O ω O 2 assignment)	2020 PM Pk Hr 041 w/Project	Percent Trucks
WBLT WBT WBRT	13 68 9	13 69 9	0.90	11 12.2%	0 14 0	13 83 9	14 23.8%
NBLT NBT NBRT	36 98 35	36 99 35	0.90	14 8.3%	0 0 11	36 99 46	11 13.8%
SBLT SBT SBRT	4 39 23	4 39 23	0.53	2 3.0%	0 0 0	4 39 23	0 3.0%
	588	592	0.94		28	620	

GRIP ROAD MINE Prairie Rd / F&S Rd

PM Peak Hour: 5:00 PM - 6:00 PM

Date Collected: 12/17/2019

EBLT EBT EBRT	55 o Existing PM Peak Hour	0 2020 PM Peak Hour	Peak Hour Factor	Percent Trucks	O 라 O 2 assignment)	2020 PM PK Hr w/Project	Percent Trucks
WBLT WBT WBRT	6 35 0	6 35 0	0.75	1 2.4%	0 14 0	6 49 0	14 27.3%
NBLT NBT NBRT	20 0 17	20 0 17	0.80	3 8.1%	0 0	20 0 17	0 8.1%
SBLT SBT SBRT	0 0 0	0 0 0	0.00	0 0.0%	0 0 0	0 0	0 0.0%
	261	263	0.78		28	291	

GRIP ROAD MINE Prairie Rd / Grip Rd

PM Peak Hour: 5:00 PM - 6:00 PM

Date Collected: 12/16/2019

EBLT EBT EBRT	o o o Existing PM Peak Hour	O O 2020 PM Peak Hour	9 Peak Hour Factor	0.0 Percent Trucks	O O 2 assignment)	OOOWProject	0.0% Percent Trucks
WBLT WBT WBRT	13 0 1	13 0 1	0.46	0 0.0%	14 0 0	27 0 1	14 50.0%
NBLT NBT NBRT	0 111 51	0 112 52	0.93	9 5.6%	0 0 14	0 112 66	14 12.9%
SBLT SBT SBRT	2 34 0	2 34 0	0.65	3 8.3%	0 0 0	2 34 0	0 8.3%
	212	214	0.9		28	242	

GRIP ROAD MINE PM PEAK HOUR VOLUMES OPTION 2 Project Trip Assignment

GRIP ROAD MINE Grip Rd / Site Access

PM Peak Hour: n/a Date Collected: n/a

EBLT OF EBRT O	0 3 54	× Peak Hour Factor	x x x Percent Trucks	Grip Road Mine (Option 2 assignment)	0 5 4 WProject	Dercent Trucks
WBLT 0 WBT 14 WBRT 0	1 14	х	x x	0 0 1	0 14 1	1 6.7%
NBLT 0 NBT 0 NBRT 0	0	x	x x	0 0	0 0 0	0 0.0%
SBLT 0 SBT 0 SBRT 0	0	х	x x	1 0 14	1 0 14	15 100.0%
67	7 68	0.9		30	98	

Intersection							Li-					
Int Delay, s/veh	6.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ß			ર્ન						4	
Traffic Vol, veh/h	0	84	45	141	122	0	0	0	0	112		45
Future Vol, veh/h	0	84	45	141	122	0	0	0	0	112	0	45
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized			None			None			None			None
Storage Length		-	*							-	7	-
Veh in Median Storage,	# -	0		:=0	0					-		\$.
Grade, %	9€ 8	0		*	0	(=)		0	-		0	
Peak Hour Factor	89	89	89	89	89	89	100	100	100	89	89	89
Heavy Vehicles, %	1	1	1	2	2	2	0	0	0	3	3	3
Mvmt Flow	0	94	51	158	137	0	0	0	0	126	0	51
	Value of											
	lajor1			Major2				m .		Minor2		
Conflicting Flow All		0	0	145	0	0				574	599	137
Stage 1	•			7.		7				454	454	
Stage 2			180		7					120	145	
Critical Hdwy			•	4.12						6.43	6.53	6.23
Critical Hdwy Stg 1	(#3		*	-	*					5.43	5.53	-
Critical Hdwy Stg 2		-				-				5.43	5.53	-
Follow-up Hdwy	141	-	-	2.218	<u>~</u>	-				3.527	4.027	
Pot Cap-1 Maneuver	0	*		1437	9	0				479	414	909
Stage 1	0		9	ž	-	0				638	568	(*
Stage 2	0	**			•	0				903	775	
Platoon blocked, %		1#7	*	4 40=	- 7					100		000
Mov Cap-1 Maneuver	190	.#0		1437		#				422	0	909
Mov Cap-2 Maneuver	-	•:	-			-				422	0	(*)
Stage 1	***	-		-						562	0	
Stage 2	-		- 1	-		-				903	0	-
Approach	EB			WB						SB		
HCM Control Delay, s	0			4.2						16.1		
HCM LOS	U			4.2						C		
TIOW EOU										C		
Minor Lane/Major Mymt		EBT	EBR	WBL	WBT :	SBLn1						
Capacity (veh/h)				1437	-	499						
HCM Lane V/C Ratio		- ú		0.11		0.354						
HCM Control Delay (s)				7.8	0	16.1						
HCM Lane LOS		2		Α.	A	C						
HCM 95th %tile Q(veh)		- 4		0.4		1.6						
TOTAL COULT MULIC CALLACITY		- 5		U.T		1.0						

Int Delay, siveh 7.4 Movement EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBR SBR Lane Configurations 4	Intersection		-	n E									
Lane Configurations		7.4											
Lane Configurations	Movement	FBI	FRT	FRR	WBI	WRT	WRR	NRI	NRT	NBR	SRI	SBT	SBR
Traffic Vol, veh/h		_00		to bill	1100		TIMIN	1106		1,011	454		UDIT
Future Vol, veh/h Conflicting Peds, #hr O O O O O O O O O O O O O O O O O O O		33		0	O		72	93		293	0	0	0
Conflicting Peds, #/hr Free Stop Sto													
Sign Control Free Stop Stop Stop Stop Stop Stop Storaty Channelized Storage Length Stor	· · · · · · · · · · · · · · · · · · ·												
RT Channelized - None - None -													
Storage Length													
Veh in Median Storage, # 0 - 0 - 0 - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 0 - - 0 0 - - 0 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <th< td=""><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>			-										
Grade, %		,# -	0		*	0			0				7.
Heavy Vehicles, % 2 2 2 1 1 1 1 2 2 2 2 0 0 0 0 Mvmt Flow 35 157 0 0 0 212 77 100 0 315 0 0 0 0 Mwmt Flow 35 157 0 0 0 212 77 100 0 315 0 0 0 0 Major/Minor Major Major Minor Major Major Minor Major Major Minor Minor Major Minor Minor Major Minor Minor Major Minor Minor Minor Major Minor Mino			0	-		0	-		0	-	-	0	:(*:
Mymt Flow 35 157 0 0 212 77 100 0 315 0 0 0 Major/Minor Major1 Major2 Minor1 Minor1 Major2 Minor1 Conflicting Flow All 289 0 - - 0 479 517 157 Stage 1 - - - - 228 228 - Critical Hdwy 4.12 - - 6.42 6.52 6.22 Critical Hdwy Stg 1 - - - 5.42 5.52 - Critical Hdwy Stg 2 - - - 5.42 5.52 - Critical Hdwy Stg 1 - - - 5.42 5.52 - Critical Hdwy Stg 2 - - - 5.42 5.52 - Critical Hdwy Stg 2 - - - 5.42 5.52 - Critical Hdwy Stg 2 - - - <td< td=""><td></td><td>93</td><td>93</td><td>93</td><td>93</td><td>93</td><td>93</td><td>93</td><td>93</td><td>93</td><td>100</td><td>100</td><td>100</td></td<>		93	93	93	93	93	93	93	93	93	100	100	100
Major/Minor Major1 Major2 Minor1	Heavy Vehicles, %	2	2	2	1	1	1	2	2	2	0	0	0
Conflicting Flow All 289 0		35	157	0	0	212	77	100	0	315	0	0	0
Conflicting Flow All 289 0													
Conflicting Flow All 289 0	Major/Minor	Major1			Major2			Minor1					17.8
Stage 1 - - - 228 228 - Stage 2 - - - 251 289 - Critical Hdwy 4.12 - - - 6.42 6.52 6.22 Critical Hdwy Stg 1 - - - 5.42 5.52 - Critical Hdwy Stg 2 - - - 5.42 5.52 - Follow-up Hdwy 2.218 - - - 3.518 4.018 3.318 Pot Cap-1 Maneuver 1273 - 0 0 - 545 462 889 Stage 1 - - 0 0 - 810 715 - - 191 673 - <td></td> <td></td> <td>0</td> <td></td> <td></td> <td>-</td> <td></td> <td>_</td> <td>517</td> <td>157</td> <td></td> <td></td> <td></td>			0			-		_	517	157			
Stage 2 - - - - 251 289 - Critical Hdwy 4.12 - - - 6.42 6.52 6.22 Critical Hdwy Stg 1 - - - 5.42 5.52 - Critical Hdwy Stg 2 - - - 5.42 5.52 - Follow-up Hdwy 2.218 - - - 5.42 5.52 - Follow-up Hdwy 2.218 - - - 3.518 4.018 3.318 Pot Cap-1 Maneuver 1273 - 0 0 - 545 462 889 Stage 2 - 0 0 - 791 673 - Platoon blocked, % - - - - 529 0 889 Mov Cap-1 Maneuver 1273 - - 529 0 889 Mov Cap-2 Maneuver - - - 786 0 - Stage 1 - - - - 791 0 <td></td>													
Critical Howy 4.12 6.42 6.52 6.22 Critical Howy Stg 1 5.42 5.52 - Critical Howy Stg 2													
Critical Hdwy Stg 1 5.42 5.52 - Critical Hdwy Stg 2 5.42 5.52 - Follow-up Hdwy 2.218 3.518 4.018 3.318 Pot Cap-1 Maneuver 1273 - 0 0 - 545 462 889 Stage 1 0 0 0 - 810 715 - Stage 2 - 0 0 0 - 791 673 - Platoon blocked, % 529 0 889 Mov Cap-1 Maneuver 1273 529 0 889 Mov Cap-2 Maneuver 1273 529 0 - Stage 1 786 0 - Stage 2 791 0 - Stage 2 791 0 - Stage 1 786 0 - Stage 2 791 0 - Minor Lane/Major Mvmt NBLn1 EBL EBT WBT WBR Capacity (veh/h) 764 1273 HCM Lane V/C Ratio 0.543 0.028 HCM Control Delay (s) 15.2 7.9 0 HCM Control Delay (s) 15.2 7.9 0 HCM Control Delay (s) 15.2 7.9 0 HCM Lane LOS C A A		4.12								6.22			
Critical Hdwy Stg 2 5.42 5.52 - Follow-up Hdwy 2.218 3.518 4.018 3.318 Pot Cap-1 Maneuver 1273 - 0 0 - 545 462 889 Stage 1 0 0 - 810 715 - Stage 2 0 0 - 791 673 - Platoon blocked, % 529 0 889 Mov Cap-1 Maneuver 1273 529 0 889 Mov Cap-2 Maneuver 529 0 - 52			-	-		_							
Follow-up Hdwy 2.218 3.518 4.018 3.318 Pot Cap-1 Maneuver 1273 - 0 0 - 545 462 889 Stage 1 0 0 0 - 810 715 - Stage 2 - 0 0 0 - 791 673 - Platoon blocked, % 529 0 889 Mov Cap-1 Maneuver 1273 529 0 - Stage 1 529 0 - Stage 1 786 0 - Stage 2 791 0 - Approach EB WB NB HCM Control Delay, s 1.5 0 15.2 HCM LOS C Minor Lane/Major Mvmt NBLn1 EBL EBT WBT WBR Capacity (veh/h) 764 1273 HCM Lane V/C Ratio 0.543 0.028 HCM Control Delay (s) 15.2 7.9 0 HCM Cantrol Delay (s) 15.2 7.9 0 HCM Lane LOS C A A		1		-		-	-						
Pot Cap-1 Maneuver 1273		2.218			100	*				3.318			
Stage 1					0								
Stage 2	· · · · · · · · · · · · · · · · · · ·		-		0	-	-						
Platoon blocked, %				0	0	-				-			
Mov Cap-2 Maneuver - - - 529 0 - Stage 1 - - - - 786 0 - Stage 2 - - - - 791 0 - Approach EB WB NB HCM Control Delay, s 1.5 0 15.2 HCM LOS C C Approach But MB NB NB Control Delay, s Control Delay (s) Indicate WBT Capacity (veh/h) For the property of						×							
Mov Cap-2 Maneuver - - - 529 0 - Stage 1 - - - - 786 0 - Stage 2 - - - - 791 0 - Approach EB WB NB HCM Control Delay, s 1.5 0 15.2 HCM LOS C C Approach But MB NB NB NB Control Delay, s Control Delay (s) The Major Mvmt NBLn1 EBL EBT WBT WBR Capacity (veh/h) Total 1273 The MBR Capacity (veh/h) The MBR Capac		1273				-	-	529	0	889			
Stage 2		(4)		-	¥	4	-	529	0	-			
Approach EB WB NB HCM Control Delay, s 1.5 0 15.2 HCM LOS C C Minor Lane/Major Mvmt NBLn1 EBL EBT WBT WBR Capacity (veh/h) 764 1273 - - - HCM Lane V/C Ratio 0.543 0.028 - - - HCM Control Delay (s) 15.2 7.9 0 - - HCM Lane LOS C A A - -	Stage 1	-					-	786	0				
HCM Control Delay, s 1.5 0 15.2 HCM LOS C Minor Lane/Major Mvmt NBLn1 EBL EBT WBT WBR Capacity (veh/h) 764 1273 HCM Lane V/C Ratio 0.543 0.028 HCM Control Delay (s) 15.2 7.9 0 HCM Lane LOS C A A	Stage 2	*			*	9	-	791	0	•			
HCM Control Delay, s 1.5 0 15.2 HCM LOS C Minor Lane/Major Mvmt NBLn1 EBL EBT WBT WBR Capacity (veh/h) 764 1273 HCM Lane V/C Ratio 0.543 0.028 HCM Control Delay (s) 15.2 7.9 0 HCM Lane LOS C A A													
HCM Control Delay, s 1.5 0 15.2 HCM LOS C Minor Lane/Major Mvmt NBLn1 EBL EBT WBT WBR Capacity (veh/h) 764 1273 HCM Lane V/C Ratio 0.543 0.028 HCM Control Delay (s) 15.2 7.9 0 HCM Lane LOS C A A	Approach	EB			WB			NB					
Minor Lane/Major Mvmt NBLn1 EBL EBT WBT WBR Capacity (veh/h) 764 1273 - - - HCM Lane V/C Ratio 0.543 0.028 - - - HCM Control Delay (s) 15.2 7.9 0 - - HCM Lane LOS C A A - -					0			15.2					
Minor Lane/Major Mvmt NBLn1 EBL EBT WBT WBR Capacity (veh/h) 764 1273 - - - HCM Lane V/C Ratio 0.543 0.028 - - - HCM Control Delay (s) 15.2 7.9 0 - - HCM Lane LOS C A A - -													
Capacity (veh/h) 764 1273													
Capacity (veh/h) 764 1273	Minor Lane/Major Mym	it 1	NBLn1	EBL	EBT	WBT	WBR						
HCM Lane V/C Ratio 0.543 0.028 HCM Control Delay (s) 15.2 7.9 0 HCM Lane LOS C A A													
HCM Control Delay (s) 15.2 7.9 0 HCM Lane LOS C A A						-							
HCM Lane LOS C A A													
	HCM 95th %tile Q(veh)		3.3	0.1									

Intersection												
Int Delay, s/veh	9.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	81	137	47	13		9	36	99	35	4	39	23
Future Vol, veh/h	81	137	47	13	69	9	36	99	35	4	39	23
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized			None			None			None	-		None
Storage Length	*		+			ä	-	-		-		ě
Veh in Median Storage	e, # -	0		-	0		-	0			0	9.71
Grade, %		0			0	-		0	7	-	0	1-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	7	7	7	12	12	12	8	8	8	3	3	3
Mvmt Flow	86	146	50	14	73	10	38	105	37	4	41	24
Major/Minor	Minor2			Minor1			Major1		- "	Major2		
Conflicting Flow All	304	281	54	361	275	124	66	0	0	143	0	0
Stage 1	62	62		201	201		-				- 16	(6)
Stage 2	242	219		160	74		-			-		
Critical Hdwy	7.17	6.57	6.27	7.22	6.62	6.32	4.18		-	4.13		
Critical Hdwy Stg 1	6.17	5.57		6.22	5.62	-	-	-	100	3.5		
Critical Hdwy Stg 2	6.17	5.57		6.22	5.62							
Follow-up Hdwy	3.563	4.063	3.363	3.608	4.108	3.408	2.272	-		2.227	3045	
Pot Cap-1 Maneuver	639	619	999	577	616	901	1498	- 2		1434		- 2
Stage 1	937	833	-	778	717		8	2		94		
Stage 2	750	713		819	814							*
Platoon blocked, %												
Mov Cap-1 Maneuver	559	600	999	435	597	901	1498			1434		(*)
Mov Cap-2 Maneuver	559	600	-	435	597		-		· (m)			·*:
Stage 1	911	831		756	697	-						
Stage 2	645	693	-	640	812	-	-			7 2 0	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	15.2			12.4			1.6			0.5		
HCM LOS	C			В						0.0		
Minor Lane/Major Mym	nt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR			
Capacity (veh/h)		1498	-			585	1434		part .			
HCM Lane V/C Ratio		0.026			0.447			-				
HCM Control Delay (s)		7.5	0		15.2	12.4	7.5	0	-			
HCM Lane LOS		A	A	-	C	В	A	A	-			
HCM 95th %tile Q(veh))	0.1	-	2	2.3	0.6	0	-	24			
TOTAL GOOD TOURS OF ACLASED	,	0.1	- 6	- 5	2.0	0.0	U	35				

Intersection	-					
Int Delay, s/veh	1.6					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	f.			र्स	M	
Traffic Vol, veh/h	161	24	6	35	20	17
Future Vol, veh/h	161	24	6	35	20	17
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length	(#)		-	-	0	-
Veh in Median Storage,		-		0	0	
Grade, %	0	: + 1		0	0	(*)
Peak Hour Factor	78	78	78	78	78	78
Heavy Vehicles, %	5	5	2	2	8	8
Mymt Flow	206	31	8	45	26	22
WWITE FIOW	200	31	0	40	20	22
Major/Minor M	ajor1_		Major2		Minor1	
Conflicting Flow All	0	0	237	0	282	222
Stage 1	253		180		222	
Stage 2	300	(₩)			60	-
Critical Hdwy	(#6	-	4.12	-	6.48	6.28
Critical Hdwy Stg 1		-	:=:	-	5.48	
Critical Hdwy Stg 2	-	-		-	5.48	-
Follow-up Hdwy			2.218		3.572	3.372
Pot Cap-1 Maneuver			1330	-	695	803
Stage 1					801	-
Stage 2		-			948	
Platoon blocked, %	(*)				5.5	
Mov Cap-1 Maneuver		-	1330		691	803
Mov Cap-1 Maneuver	***	140	1000		691	-
Stage 1					801	-
		51				
Stage 2	•	•	*	-	942	
			WB		NB	
Approach	EB		110			
	0		1.1		10.2	
HCM Control Delay, s					10.2	
		Ī			_	
HCM Control Delay, s HCM LOS	0		1.1		10.2 B	
HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt	0	NBLn1		EBR	10.2 B	WBT
HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt Capacity (veh/h)	0	738	1.1		10.2 B WBL 1330	WBT -
HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio	0	738 0.064	1.1 EBT		10.2 B WBL 1330 0.006	-
HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	0	738 0.064 10.2	1.1 EBT		10.2 B WBL 1330 0.006 7.7	- 0
HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio	0	738 0.064	1.1		10.2 B WBL 1330 0.006	-

Intersection	= =					
Int Delay, s/veh	0.7					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	A		Þ			र्स
Traffic Vol, veh/h	13	1	112	52	2	34
Future Vol, veh/h	13	1	112	52	2	34
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	177	None		None		None
Storage Length	0	π.			-	-
Veh in Median Storage	,# 0		0			0
Grade, %	0	(w)	0		- *	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	0	0	6	6	8	8
Mvmt Flow	14	1	124	58	2	38
					_	
	Minor1		Major1		Major2	
Conflicting Flow All	195	153	0	0	182	0
Stage 1	153					•
Stage 2	42		(*)	-		*
Critical Hdwy	6.4	6.2	*	-	4.18	
Critical Hdwy Stg 1	5.4	-	-(-	-	-
Critical Hdwy Stg 2	5.4	-	-			
Follow-up Hdwy	3.5	3.3	-	-	2.272	4
Pot Cap-1 Maneuver	798	898	•		1358	
Stage 1	880	*	*		-	-
Stage 2	986			-	-	
Platoon blocked, %			-			-
Mov Cap-1 Maneuver	796	898		-	1358	-
Mov Cap-2 Maneuver	796	-			-	-
Stage 1	880					
Stage 2	984	¥	120		2	
Stage 2	304					
Approach	WB		NB		SB	
HCM Control Delay, s	9.6		0		0.4	
HCM LOS	Α					
Minor Long Males Mar		MOT	MOON	VD1 -4	CDI	COT
	C.	NBT	MRKA	VBLn1	SBL	SBT
Minor Lane/Major Mvm						
Capacity (veh/h)		*	-	803	1358	
Capacity (veh/h) HCM Lane V/C Ratio				0.019	0.002	-
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)				0.019 9.6	0.002 7.7	0
Capacity (veh/h) HCM Lane V/C Ratio		-		0.019	0.002	-

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		र्भ	1		W	
Traffic Vol, veh/h	0	54	14	0	0	1
Future Vol, veh/h	0	54	14	0	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None			0.00	None
Storage Length		110110		110110	0	110110
Veh in Median Storage		0	0		0	
Grade, %) = ·	0	0		0	
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	0	59	15	0	0	1
IVIVIIIL I IOW	U	39	10	U	U	-
	Major1		Major2		Minor2	
Conflicting Flow All	15	0		0	74	15
Stage 1	. 	597	-		15	π
Stage 2					59	
Critical Hdwy	4.12		~		6.42	6.22
Critical Hdwy Stg 1	-	(40)	-	-	5.42	
Critical Hdwy Stg 2		-		-	5.42	-
Follow-up Hdwy	2.218				3.518	3.318
Pot Cap-1 Maneuver	1603				930	1065
Stage 1	-				1008	1000
Stage 2	.77.1	1977) 1990 i	*		964	
Platoon blocked, %	250	-	-	-	JU4	
Mov Cap-1 Maneuver	1603	-			930	1065
		-			930	1000
Mov Cap-2 Maneuver	₩ .					
Stage 1	-	***	-		1008	•
Stage 2	•	-		-	964	
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		8.4	
HCM LOS					A	
Minor Lane/Major Mym	it	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1603				1065
HCM Lane V/C Ratio			-			0.001
HCM Control Delay (s)		0	-		-	8.4
HCM Lane LOS		A			-	A
HCM 95th %tile Q(veh)		0			3	0
7000 0000						v

Intersection													
Int Delay, s/veh	6.7												
lovement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
ane Configurations		f)		IL.	र्भ						4		
raffic Vol, veh/h	0	85	45	143	123	0	0	0	0	112	0	45	
uture Vol, veh/h	0	85	45	143	123	0	0	0	0	112	0	45	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
ign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	1100		None	*	-	None	olop *	- Otop	None	Otop	O.Op	None	
Storage Length			-		-	-	-		-			-	
eh in Median Storage,	# -	0			0	***					0		
Grade, %		0	3+5		0	*		0			0	-	
Peak Hour Factor	89	89	89	89	89	89	100	100	100	89	89	89	
Heavy Vehicles, %	2	2	2	3	3	3	0	0	0	3	3	3	
Mymt Flow	0	96	51	161	138	0	0	0	0	126	0	51	
WINE T IOW	U	50	01	101	100	U	U	U	U	120	U	V.	
lajor/Minor M	lajor1			Major2		-			N	/linor2			
Conflicting Flow All		0	0	146	0	0				581	606	138	_
Stage 1	(-	-	-	170	-	-				460	460	100	
Stage 2			170	-		-				121	146	ATT.	
ritical Hdwy			180	4.13						6.43	6.53	6.23	
Critical Hdwy Stg 1				1.10		-				5.43	5.53	0.20	
ritical Hdwy Stg 2		*			141					5.43	5.53	100	
ollow-up Hdwy	-	-		2.227	-					3.527	4.027		
ot Cap-1 Maneuver	0			1430	2	0				474	410	908	
Stage 1	0		-	1400		0				634	564	000	
Stage 2	0	(#)	150	75-0		0				902	774		
Platoon blocked, %	U	***			*1	U					11-7		
lov Cap-1 Maneuver	(4)		-	1430						416	0	908	
lov Cap-2 Maneuver	**	*		98						416	0	-	
Stage 1	-					_				557	0		
Stage 2	41	4		121	42	2				902	0	140	
											e i		
pproach	EB			WB						SB			
CM Control Delay, s	0			4.2						16.4			
ICM LOS										C			
linor Lane/Major Mvmt		EBT	EBR	WBL	WBT S	SBLn1							
apacity (veh/h)		*		1430		492							
ICM Lane V/C Ratio				0.112		0.359							
ICM Control Delay (s)			-	7.8	0	16.4							
ICM Lane LOS				Α	Α	С							
ICM 95th %tile Q(veh)				0.4		1.6							
				3.,									

Intersection			- 15									
Int Delay, s/veh	7.4											
-		COT	COD	WIDI	MOT	MOD	NIDI	NOT	NOD	CDI	CDT	CDD
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	00	र्ब	0	0	1	70	00	4	005	0	^	0
Traffic Vol, veh/h	33	147	0	0	200	72	93	0	295	0	0	0
Future Vol, veh/h	33	147	0	0	200	72	93	0	295	0	0	0
Conflicting Peds, #/hr	_ 0	_ 0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized		•	None	-	•	None			None		-	None
Storage Length			•	(3)			7.	-	-		•	•
Veh in Median Storage		0			0			0		-	-	
Grade, %	-	0	-		0		-	0	-	400	0	400
Peak Hour Factor	93	93	93	93	93	93	93	93	93	100	100	100
Heavy Vehicles, %	2	2	2	2	2	2	3	3	3	0	0	0
Mvmt Flow	35	158	0	0	215	77	100	0	317	0	0	0
Major/Minor	Major1			Major2			Minor1			4 7		
Conflicting Flow All	292	0		-		0	483	521	158			
Stage 1	202	-	17/2	- 1		-	229	229	100			
Stage 2	-	-	-	-	-	_	254	292	-			
Critical Hdwy	4.12			-		_	6.43	6.53	6.23			
Critical Hdwy Stg 1	4.12	-		-		į.	5.43	5.53	0.20			
Critical Hdwy Stg 2			-				5.43	5.53				
Follow-up Hdwy	2.218		-	-			3.527	4.027	3.327			
Pot Cap-1 Maneuver	1270		0	0	-	-	541	458	885			
Stage 1	1210	-	0	0	- 1		807	713	005			
Stage 2	(\$) (\$)		0	0	- 0	9	786	669	7.5			
Platoon blocked, %			U	U			700	009	JĄ.			
Mov Cap-1 Maneuver	1270	(7)					525	0	885			
				.#)			525					
Mov Cap-2 Maneuver) = 0	*	-		-	783	0	*			
Stage 1	-	-	-			-	783 786	0				
Stage 2			-	-	-		780	0	-			
Approach	EB			WB			NB					
HCM Control Delay, s	1.5			0			15.3					
HCM LOS							C					
Minor Long/Major M.		MDI n4	COL	COT	MOT	MADD						
Minor Lane/Major Mvm	TC .	NBLn1	EBL	EBT	VVDI	WBR						
Capacity (veh/h)		760	1270	-								
HCM Lane V/C Ratio		0.549	0.028			*						
HCM Control Delay (s)		15.3	7.9	0								
HCM Lane LOS		С	Α	Α	2	7 -						
HCM 95th %tile Q(veh))	3.4	0.1									

Intersection												
Int Delay, s/veh	9.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	81	140	47	24	72	9	36	99	46	4	39	23
Future Vol., veh/h	81	140	47	24	72	9	36	99	46	4	39	23
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	34		None		-	None			None			None
Storage Length			-	-		-	-	-		-		- 2
Veh in Median Storag	e.# -	0		-	0			0			0	-
Grade, %	-	0	28	-	0	-	-	0		-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	12	12	12	25	25	25	8	8	8	3	3	3
Mvmt Flow	86	149	50	26	77	10	38	105	49	4	41	24
Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	311	293	54	368	280	130	66	0	0	154	0	0
Stage 1	62	62		206	206	- 3		-				
Stage 2	249	231	-	162	74	-	-	-	-	-	-	
Critical Hdwy	7.22	6.62	6.32	7.35	6.75	6.45	4.18			4.13		-
Critical Hdwy Stg 1	6.22	5.62		6.35	5.75		-			-	-	-
Critical Hdwy Stg 2	6.22	5.62		6.35	5.75	-	-				1.4	-
Follow-up Hdwy	3.608	4.108	3.408	3.725	4.225	3.525	2.272	- 2	-	2.227	-	-
Pot Cap-1 Maneuver	622	602	986	548	591	862	1498			1420	-	100
Stage 1	925	824		746	690	ij.	-	8	- 2	4		-
Stage 2	733	695		789	790		-			-		361
Platoon blocked, %								-				
Mov Cap-1 Maneuver	539	583	986	408	573	862	1498	-		1420	D ™	1.00
Mov Cap-2 Maneuver		583		408	573							
Stage 1	899	822	-	725	671	- 4		2	-	- 14	160	
Stage 2	624	676	-	611	788	-		2	- 2		74	
Approach	EB			WB			NB			SB		
HCM Control Delay, s	15.9			13.4			1.5			0.5		
HCM LOS	С			В								
		A I = 1				1004						
Minor Lane/Major Mvr	nt	NBL	NBT	NBR	EBLn1V		SBL	SBT	SBR			
Capacity (veh/h)		1498			612	539	1420					
HCM Lane V/C Ratio		0.026	*	•	0.466			-				
HCM Control Delay (s)	7.5	0	-	15.9	13.4	7.5	0				
HCM Lane LOS		Α	Α	2	C	В	Α	Α	-			
HCM 95th %tile Q(veh	1)	0.1			2.5	0.8	0					

Intersection			HW.			
Int Delay, s/veh	1.5					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	4	FUIT	TYDL	र्भ	W	IADIA
Traffic Vol, veh/h	175	24	6	49	20	17
Future Vol, veh/h	175	24	6	49	20	17
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	1100		Olop	None
Storage Length	-	TVUILE			0	NOILE
			-	-		
Veh in Median Storage,		170	170	0	0	
Grade, %	0	70	70	0	0	70
Peak Hour Factor	78	78	78	78	78	78
Heavy Vehicles, %	12	12	29	29	8	8
Mvmt Flow	224	31	8	63	26	22
Major/Minor M	ajor1		Major2		Minor1	4 -
Conflicting Flow All	0	0	255	0	318	240
Stage 1		0	200		240	240
-		190	-7.0	-	78	
Stage 2	1753	5.70	4.00			C 00
Critical Hdwy		-	4.39	æ	6.48	6.28
Critical Hdwy Stg 1		±€0	*	-	5.48	*
Critical Hdwy Stg 2	7147	-		-	5.48	
Follow-up Hdwy	140		2.461	-	3.572	
Pot Cap-1 Maneuver	*		1168		663	784
Stage 1	*	•	*	÷	786	ž
Stage 2		•		7	930	
Platoon blocked, %	*	•				
Mov Cap-1 Maneuver			1168	-	658	784
Mov Cap-2 Maneuver	-				658	-
Stage 1		(*)		-0	786	
Stage 2		4	-	-	923	-
Assessed	-		1445		6.100	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.9		10.4	
HCM LOS					В	
Minor Lane/Major Mvmt	N	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		710	-		1168	1101
HCM Lane V/C Ratio		0.067			0.007	
			-			0
HCM Long LOS		10.4	-		8.1	0
HCM Lane LOS HCM 95th %tile Q(veh)		0.2	2	-	A 0	Α -
		11/		-	- 11	-

Intersection						
Int Delay, s/veh	1.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W	77.071	1	1 (10)	308	स
Traffic Vol, veh/h	27	1	112	66	2	34
Future Vol, veh/h	27	1	112	66	2	34
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Otop	None	1100	None	-	None
Storage Length	0	140110		140116		140116
Veh in Median Storage			0			0
Grade, %	0		0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
	50	50	13	13	8	8
Heavy Vehicles, %				73	2	38
Mvmt Flow	30	1	124	73	2	38
Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	203	161	0	0	198	0
Stage 1	161					-
Stage 2	42					
Critical Hdwy	6.9	6.7			4.18	
Critical Hdwy Stg 1	5.9	-				
Critical Hdwy Stg 2	5.9					-
Follow-up Hdwy	3.95	3.75	2	-	2.272	- 2
Pot Cap-1 Maneuver	689	773	¥		1339	12
Stage 1	764				.000	
Stage 2	871	-	-	-		
Platoon blocked, %	011			-	- 1	
Mov Cap-1 Maneuver	688	773	- 1		1339	-
	688					
Mov Cap-2 Maneuver			-	-		
Stage 1	764		-	-	-	
Stage 2	869	•		*		
Approach	WB		NB		SB	
HCM Control Delay, s	10.5		0		0.4	
HCM LOS	В				2.7	
Minnell and Males M.		AIDT	NOON	VDI -4	001	OD#
Minor Lane/Major Mvm	I	NBT	NBRV		SBL	SBT
Capacity (veh/h)			•	691	1339	₹₩.
HCM Lane V/C Ratio		¥		0.045		(S) (4)
HCM Control Delay (s)		-		10.5	7.7	0
HCM Lane LOS		•	-	В	Α	Α
HCM 95th %tile Q(veh)			-	0.1	0	(•

Intersection				115		4 45
Int Delay, s/veh	2.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		र्स	ĵ»		Y	
Traffic Vol, veh/h	14	54	14	1	1	14
Future Vol, veh/h	14	54	14	1	1	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length		140110		140116	0	140116
Veh in Median Storage		0	0		0	:
Grade, %		0	0	1994	0	-
Peak Hour Factor	90	90	90	90	90	90
			7			
Heavy Vehicles, %	21	21		7	100	100
Mvmt Flow	16	60	16	1	1	16
Major/Minor	Major1	N	Major2	ħ	Minor2	
Conflicting Flow All	17	0	-	0	107	16
Stage 1		-	-	-	16	10
Stage 2	(F)				91	
Critical Hdwy	4.31				7.4	7.2
Critical Hdwy Stg 1		-		#M	6.4	1.2
	? = 0	*	(*)	3#67		
Critical Hdwy Stg 2	0.000	-	-	-	6.4	4.0
Follow-up Hdwy	2.389	-	140	-	4.4	4.2
Pot Cap-1 Maneuver	1485	-	*	-	701	838
Stage 1	-		•)	-	803	
Stage 2	(+)	*	*		735	
Platoon blocked, %			_ #			
Mov Cap-1 Maneuver	1485			-	693	838
Mov Cap-2 Maneuver	*	(*):	•	-	693	-
Stage 1	-	(8)	*	[+]	803	~
Stage 2	4 0				727	¥
Approach	EB		WB		SB	
HCM Control Delay, s	1.5		0		9.4	
HCM LOS	1.0		U			
TIGIVI EUS					Α	
When						
Minor Lane/Major Mym	t	E8L	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1485				826
HCM Lane V/C Ratio		0.01		1 m	-	0.02
HCM Control Delay (s)		7.5	0			9.4
HCM Lane LOS		A	Α	-	12	Α
HCM 95th %tile Q(veh)		0		-		0.1
						011

Intersection							=					
Int Delay, s/veh	6.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		Þ			र्स						4	
Traffic Vol, veh/h	0	85	45	154	123	0	0	0	0	112	0	45
Future Vol, veh/h	0	85	45	154	123	0	0	0	0	112	0	45
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized			None	•		None		•	None	ř		None
Storage Length			17.	. 		-		-	*		7.	-
Veh in Median Storage,	,# -	0		-	0	: -		-	-	-	0	
Grade, %	-	0	*		. 0		-	0		-	0	35
Peak Hour Factor	89	89	89	89	89	89	100	100	100	89	89	89
Heavy Vehicles, %	2	2	2	7	7	7	0	0	0	3	3	3
Mvmt Flow	0	96	51	173	138	0	0	0	0	126	0	51
Major/Minor N	Najor1			Major2			E T		1	Minor2		- 15-51
Conflicting Flow All		0	0	146	0	0				605	630	138
Stage 1		-	-	140	-	-				484	484	-
Stage 2	(=)	(*)		-						121	146	176
Critical Hdwy	-		-	4.17						6.43	6.53	6.23
Critical Hdwy Stg 1	-	-	-	9		_				5.43	5.53	-
Critical Hdwy Stg 2	-	-			-	-				5.43	5.53	
Follow-up Hdwy			-	2.263	-	- 4				3.527	4.027	3.327
Pot Cap-1 Maneuver	0		-	1406	- 2	0				459	397	908
Stage 1	0					0				618	550	
Stage 2	0		-	-	-	0				902	774	
Platoon blocked, %					*	-						
Mov Cap-1 Maneuver		(*)		1406						398	0	908
Mov Cap-2 Maneuver	-	-	-							398	0	-
Stage 1	-	-	-			2				536	0	2.86
Stage 2				-						902	0	12
Approach	EB			WB	-					SB		
	0			4.4						17		
HCM Control Delay, s HCM LOS	U			4.4						C		
HOW LOS										U		
S/A												
Minor Lane/Major Mymi		EBT	EBR	WBL	WBT !	SBLn1						
Capacity (veh/h)		-		1406								
HCM Lane V/C Ratio		90	-	0.123	-	0.372						
HCM Control Delay (s)			-	7.9	0	17						
HCM Lane LOS		-	3	Α	Α	C						
HCM 95th %tile Q(veh)				0.4		1.7						

Intersection		-				4.5					U P	7
Int Delay, s/veh	7.4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		र्भ			f a			4				
Traffic Vol, veh/h	33	147	0	0	211	72	93	0	295	0	0	0
Future Vol, veh/h	33	147	0	0	211	72	93	0	295	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	- 1100	1100	None	1100		None	Clop	o.op	None	Ctop	-	None
Storage Length			-	-	2	-		2	110110	-		
Veh in Median Storage	.# -	0			0			0			-	
Grade, %	., "	0			0			0		-	0	
Peak Hour Factor	93	93	93	93	93	93	93	93	93	100	100	100
Heavy Vehicles, %	2	2	2	6	6	6	3	3	3	0	0	0
Mymt Flow	35	158	0	0	227	77	100	0	317	0	0	0
WATER TOWN	00	100	J	J	221	- ' '	100	J	017	J	J	J
Major/Minor	Major1	337		Major2			Minor1					
Conflicting Flow All	304	0				0	495	533	158			
Stage 1			-			-	229	229				
Stage 2				-			266	304				
Critical Hdwy	4.12					-	6.43	6.53	6.23			
Critical Hdwy Stg 1	-		-	-		-	5.43	5.53	() €(
Critical Hdwy Stg 2		-				-	5.43	5.53	0.00			
Follow-up Hdwy	2.218	2	4	*	*	-	3.527	4.027	3.327			
Pot Cap-1 Maneuver	1257		0	0	- 2	=	532	451	885			
Stage 1	<u>¥</u>		0	0	*		807	713	12			
Stage 2			0	0	- 2	-	776	661	(€			
Platoon blocked, %												
Mov Cap-1 Maneuver	1257						516	0	885			
Mov Cap-2 Maneuver	-		-	*			516	0	: ·			
Stage 1							782	0) = :			
Stage 2	2	-		w	w	-	776	0	-			
Approach	EB			WB			NB					
HCM Control Delay, s	1.5			0			15.5					
HCM LOS							С					
Minor Lane/Major Mvm	it i	NBLn1	EBL	EBT	WBT	WBR						
Capacity (veh/h)		756	1257		AAAHAA.							
HCM Lane V/C Ratio						85						
			0.028	-	-							
HCM Long LOS		15.5	7.9	0	-							
HCM OF th Willia O(vah)		C	Α 0.1	Α	-	· ·						
HCM 95th %tile Q(veh)		3.4	0.1	*								

Intersection		1		36.	-14							
Int Delay, s/veh	9.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol., veh/h	81	140	47	13	83	9	36	99	46	4	39	23
Future Vol, veh/h	81	140	47	13	83	9	36	99	46	4	39	23
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	0.05	-	None	-	-	None			None			None
Storage Length			-	-			-			-		-
Veh in Median Storag	e.# -	0	10	-	0			0			0	
Grade, %	-	0			0		-	0			0	187
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	8	8	8	24	24	24	14	14	14	3	3	3
Mymt Flow	86	149	50	14	88	10	38	105	49	4	41	24
		110			00					•		
Major/Minor	Minor2			Minor1			Major1		5-4	Major2		
Conflicting Flow All	317	293	54	368	280	130	66	0	0	154	0	0
Stage 1	62	62		206	206		-			-		
Stage 2	255	231	-	162	74		-			-		
Critical Hdwy	7.18	6.58	6.28	7.34	6.74	6.44	4.24			4.13	()	
Critical Hdwy Stg 1	6.18	5.58	-	6.34	5.74		:::		-	3.00	2 5 (₩.
Critical Hdwy Stg 2	6.18	5.58	-	6.34	5.74							
Follow-up Hdwy	3.572	4.072	3.372	3.716	4.216	3.516	2.326	140	-	2.227	-	
Pot Cap-1 Maneuver	624	608	996	550	593	864	1463	14		1420	1	-
Stage 1	934	832	-	748	692	-	-	14	-	(-)		**
Stage 2	736	702	-	791	792							*
Platoon blocked, %											-	
Mov Cap-1 Maneuver	531	589	996	411	574	864	1463		-	1420		
Mov Cap-2 Maneuver	531	589	-	411	574			::•:				
Stage 1	907	830		726	672			-	(4)			
Stage 2	614	682	-	615	790	-	-	940	986			*
Approach	EB			WB			NB			SB		
HCM Control Delay, s	15.9			13			1.5			0.5		
HCM LOS	С			В								
A All your 1 was a late of the A A		D. C. C.		Man	mot 4	Man	0.51	0.57	055			
Minor Lane/Major Mvn	nt	NBL	NBT	NBR	EBLn1V		SBL	SBT	SBR			
Capacity (veh/h)		1463		*	613	563	1420	_186				
HCM Lane V/C Ratio		0.026	*	-	0.465) # (
HCM Control Delay (s))	7.5	0	- 4	15.9	13	7.5	0				
HCM Lane LOS		Α	Α	-	С	В	Α	Α				
HCM 95th %tile Q(veh)	0.1		-	2.5	0.7	0					

Intersection						
Int Delay, s/veh	1.5					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	f)			स	Y	
Traffic Vol, veh/h	175	24	6	49	20	17
Future Vol, veh/h	175	24	6	49	20	17
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	
Storage Length	-	NONE		NONE	0	140110
Veh in Median Storage		-		0	0	-
Grade, %	0		-	0	0	-
Peak Hour Factor	78	78	78	78	78	78
	12	12	27			8
Heavy Vehicles, %				27	8	22
Mvmt Flow	224	31	8	63	26	22
Major/Minor N	/tajor1		Major2		Minor1	
Conflicting Flow All	0	0	255	0	318	240
Stage 1		*			240	
Stage 2			-		78	
Critical Hdwy	-	-	4.37		6.48	6.28
Critical Hdwy Stg 1	-			-	5.48	-
Critical Hdwy Stg 2	-			-	5.48	
Follow-up Hdwy	(e)	_	2.443		3.572	
Pot Cap-1 Maneuver	-		1178		663	784
Stage 1		-	, , , ,		786	704
Stage 2		-	-	_	930	9
Platoon blocked, %		131		-	000	- 5
Mov Cap-1 Maneuver		7	1178		658	784
Mov Cap-2 Maneuver	-	Ī	1170		658	704
			-		786	
Stage 1					923	
Stage 2			-	-	923	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.9		10.4	
HCM LOS					В	
					<u> </u>	
		1000				
Minor Lane/Major Mym		IBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		710			1178	
HCM Lane V/C Ratio		0.067			0.007	-
HCM Control Delay (s)		10.4			8.1	0
HCM Lane LOS		В	ž.	-	Α	Α
HCM 95th %tile Q(veh)		0.2		•	0	-

Intersection						
Int Delay, s/veh	1.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	M		f)			ન
Traffic Vol, veh/h	27	1	112	66	2	34
Future Vol, veh/h	27	1	112	66	2	34
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	(8)		-		
Veh in Median Storage	,# 0	•	0			0
Grade, %	0		0	×	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	50	50	13	13	8	8
Mvmt Flow	30	1	124	73	2	38
		•		. 3	_	-
And the first terms of the first						
	Minor1		Major1		Major2	
Conflicting Flow All	203	161	0	0	198	0
Stage 1	161					
Stage 2	42		-	-		
Critical Hdwy	6.9	6.7	-		4.18	-
Critical Hdwy Stg 1	5.9				-	4
Critical Hdwy Stg 2	5.9			2	- 2	- 2
Follow-up Hdwy	3.95	3.75			2.272	- 2
Pot Cap-1 Maneuver	689	773		-	1339	-
Stage 1	764	÷			-	+
Stage 2	871	-	-	-	-	
Platoon blocked, %						
Mov Cap-1 Maneuver	688	773	-		1339	-
Mov Cap-2 Maneuver	688	- 110		w	1000	
Stage 1	764					
Stage 2	869		-	-		
Olage Z	003					•
Approach	WB		NB		SB	
HCM Control Delay, s	10.5		0		0.4	
HCM LOS	В					
Minor Lancillator Maria		MPT	NEDV	IDI nd	CDI	СРТ
Minor Lane/Major Mym	l .	NBT	NBRV	_	SBL	SBT
Capacity (veh/h)		*	•	691	1339	
HCM Lane V/C Ratio		-		0.045		-
HCM Control Delay (s)			-	10.5	7.7	0
HCM Lane LOS			1	В	A	Α
HCM 95th %tile Q(veh)				0.1	0	17

Intersection						
Int Delay, s/veh	2.5					
		COT	MOT	MPO	COL	enn
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	4.1	4	f	4	Y	4.4
Traffic Vol, veh/h	14	54	14	1	1	14
Future Vol, veh/h	14	54	14	1	1	14
Conflicting Peds, #/hr	0	0	0	0	0	O Ctop
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	110110	•	None		None
Storage Length	-	-	*		0	
Veh in Median Storage		0	0		0	٠
Grade, %	-	0	0	-	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	21	21	7	7	100	100
Mvmt Flow	16	60	16	1	1	16
Major/Minor	Major1	1	Major2		Minor2	-
						40
Conflicting Flow All	17	0	-	0	107	16
Stage 1				*	16	
Stage 2	4.04	*		*	91	7.0
Critical Hdwy	4.31	-			7.4	7.2
Critical Hdwy Stg 1	~		2	-	6.4	-
Critical Hdwy Stg 2	2	-		*	6.4	
Follow-up Hdwy	2.389	-	ž	- 1	4.4	4.2
Pot Cap-1 Maneuver	1485	8	*	•	701	838
Stage 1	-	源	7.		803	-
Stage 2					735	
Platoon blocked, %						
Mov Cap-1 Maneuver	1485	-			693	838
Mov Cap-2 Maneuver		2	¥	-	693	(A)
Stage 1	-	-		2	803	121
Stage 2	9	-	2	-	727	
	202		NAME OF THE OWNER,			
Approach	EB		WB		SB	
HCM Control Delay, s	1.5		0		9.4	
HCM LOS					Α	
Minor Lane/Major Myn	nt	EBL	EBT	WBT	WBR	SBLot
	IL .			44121	_	
Capacity (veh/h)		1485	-		•	826
HCM Lane V/C Ratio		0.01	-	12	-	0.02
HCM Control Delay (s) HCM Lane LOS		7.5	0			9.4
HUM Lane LUS		Α	Α		-	Α
HCM 95th %tile Q(veh)		0	/-	-		0.1

TRAFFIC DATA GATHERING LAKE STEVENS, WA 98258 (425) 334-3348

EMAIL: Carlan@Trafficdatagathering.com

Location

Grip Road 1,500 feet e/o Prairie Road

City, State

: Bow, Skajit County

Counter # : NT-2808

Seven Day Volume

Interval	Mc 8/17/		TL 8/18/		We 8/19/2		Th 8/20/		Fr 8/21/		Sat 8/22/2		Sui 8/23/2		Mon Aver	
Start	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB
12:00 AM	0	4	1	3	2	4	2	4	0	3	-	-	-	-	1.0	3.6
1:00 AM	0	1	0	4	2	1	1	2	1	0		1		-	0.8	1.6
2:00 AM	1	1	2	2	1	2	3	3	1	1	-	-	-	-	1.6	1.8
3:00 AM	4	0	2	0	4	1	4	0	4	0		-	-	1	3.6	0.2
4:00 AM	7	0	5	0	6	0	5	0	4	2		-		-	5.4	0.4
5:00 AM	18	3	15	5	22	1	18	1	17	2		-		-	18.0	2.4
6:00 AM	34	4	39	4	44	7	35	3	39	2	-	-	-	-	38.2	4.0
7:00 AM	36	9	29	7	37	9	31	4	31	9	12	-		1032	32.8	7.6
8:00 AM	21	6	23	10	18	19	23	11	21	12	-	-		-	21.2	11.6
9:00 AM	13	15	15	4	3	6	12	6	17	2	*		-	- 3	12.0	6.6
10:00 AM	15	16	20	8	0	0	17	17	20	12	-	-	- 4	-	14.4	10.6
11:00 AM	23	16	25	19	0	0	17	19	20	18		- 1	-	-	17.0	14.4
12:00 PM	20	18	14	14	15	9	18	18	19	19		-	-	-	17.2	15.6
1:00 PM	16	22	16	17	25	16	14	23	24	24	*	-			19.0	20.4
2:00 PM	17	20	24	26	24	14	21	21	18	30	-			-	20.8	22.2
3:00 PM	17	36	24	40	23	19	21	30	16	26	-	-	-	E0-2	20.2	30.2
4:00 PM	36	39	23	44	23	34	18	37	17	31		-	-	-	23.4	37.0
5:00 PM	13	46	18	49	12	45	17	50	18	28	L 5		- 2	-	15.6	43.6
6:00 PM	13	21	20	39	7	25	20	37	20	26	-	-	-	-	16.0	29.6
7:00 PM	10	18	15	23	8	22	10	24	8	23	100	-		-	10.2	22.0
8:00 PM	8	12	13	17	10	15	14	16	4	12	10	-	-	-	9.8	14.4
9:00 PM	6	8	4	16	8	7	6	8	7	15		-		1 - 3	6.2	10.8
10:00 PM	2	7	3	12	3	5	2	6	5	8	-	-	-	-	3.0	7.6
11:00 PM	2	1	3	5	1	5	0	2	1	6		-		Falle	1.4	3.8
Totals	332	323	353	368	298	266	329	342	332	311	0	0	0	0	328.8	322.0
Combined	65	5	72	1	564	1	67	1	64	3	0		0		650	.8
Split (%)	50.7	49.3	49.0	51.0	52.8	47.2	49.0	51.0	51.6	48.4	*	×	3#0	2	50.5	49.5
							Peak	Hours								
12:00 AM -	7:00	10:00	6:00	11:00	6:00	8:00	6:00	11:00	6:00	11:00					6:00 AM	11:00
12:00 PM	AM 36	AM 16	AM 39	AM 19	AM 44	AM 19	AM 35	AM 19	AM 39	AM 18					38.2	AM 14.4
Volume											- 2		(/ . 5)		30,2	14,4
12:00 PM - 12:00 AM	4:00 PM	5:00 PM	2:00 PM	5:00 PM	1:00 PM	5:00 PM	2:00 PM	5 :00 PM	1:00 PM	4:00 PM	*			-	4:00 PM	5:00 PM
Volume	36	46	24	49	25	45	21	50	24	31	*			7	23.4	43.6

Page 56

Site: Loc 01

FHWA VEHICLE CLASSIFCATION STANDARD GROUPINGS

Class I Motorcycles	6	Class 7 Four or more axle, single unit	••••
Class 2 Passenger cars	6	axie, single one	
			
		Class 8 Four or less axle,	
		single trailer	
Class 3 Four tire,			
single unit		Class 9 5-Axle tractor	
±		semitrailer	
Class 4 Buses		Class 10 Six or more axle.	
		single trailer	
		Class I I Five or less axle, multi trailer	
Class 5 Two axle, six	-10	Class 12 Six axle, multi-	
tire, single unit	-	trailer	
		Class 13 Seven or more axle, multi-trailer	
Class 6 Three axle, single unit			

Location : Grip Road 1,500 feet e/o Prairie Road

City, State : Bow, Skajit County

Counter # NT-2808

Site: Loc 01 8/17/2020 Monday

Daily Classification

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi T	ailgating
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	1	0	0	0	0	0	0	0	1	0	0	0	0	. 0	0
3:00 AM	4	0	2	1	0	1	0	0	0	0	0	0	0	0	0
4:00 AM	7	0	1	1	0	5	0	0	0	0	0	0	0	0	0
5:00 AM	18	0	8	6	0	3	0	0	1	0	0	0	0	0	0
6:00 AM	34	0	19	11	0	4	0	0	0	0	0	0	0	0	0
7:00 AM	36	0	22	13	0	1	0	0	0	0	0	0	0	0	0
8:00 AM	21	0	14	5	0	2	0	0	0	0	0	0	0	0	0
9:00 AM	13	0	8	4	0	1	0	0	0	0	0	0	0	0	0
10:00 AM	15	1	9	4	0	1	0	0	0	0	0	0	0	0	0
11:00 AM	23	1	11	10	0	1	0	0	0	0	0	0	0	0	0
12:00 PM	20	0	13	4	0	2	0	0	1	0	0	0	0	0	0
1:00 PM	16	0	8	4	0	2	0	0	2	0	0	0	0	0	0
2:00 PM	17	0	12	1	0	4	0	0	0	0	0	0	0	0	0
3:00 PM	17	0	7	7	0	1	0	0	2	0	0	0	0	0	0
4:00 PM	36	1	16	13	0	6	0	0	0	0	0	0	0	0	0
5:00 PM	13	0	7	6	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	13	0	10	0	0	2	0	0	1	0	0	0	0	0	0
7:00 PM	10	0	7	3	0	0	0	0	0	0	0	0	0	0	0
8:00 PM	8	0	6	1	0	1	0	0	0	0	0	0	0	0	0
9:00 PM	6	0	3	2	0	0	0	0	1	0	0	0	0	0	0
10:00 PM	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Total	332	3	187	96	0	37	0	0	9	0	0	0	0	0	0
%		0.9	56.3	28.9	0.0	11.1	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0

Location

: Grip Road 1,500 feet e/o Prairie Road

City, State

: Bow, Skajit County

Counter #

: NT-2808

Site: Loc 01 8/18/2020 Tuesday

Daily Classification

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi Ta	ailgating
12:00 AM	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0
4:00 AM	5	0	0	1	0	4	0	0	0	0	0	0	0	0	0
5:00 AM	15	0	9	3	0	3	0	0	0	0	0	0	0	0	0
6:00 AM	39	1	18	14	0	4	0	0	2	0	0	0	0	0	0
7:00 AM	29	0	16	11	0	2	0	0	0	0	0	0	0	0	0
8:00 AM	23	0	14	6	0	2	0	0	1	0	0	0	0	0	0
9:00 AM	15	0	11	1	1	1	1	0	0	0	0	0	0	0	0
10:00 AM	20	1	7	8	0	4	0	0	0	0	0	0	0	0	0
11:00 AM	25	0	15	8	0	2	0	0	0	0	0	0	0	0	0
12:00 PM	14	1	6	4	0	3	0	0	0	0	0	0	0	0	0
1:00 PM	16	0	6	5	0	4	0	0	1	0	0	0	0	0	0
2:00 PM	24	1	13	8	0	2	0	0	0	0	0	0	0	0	0
3:00 PM	24	0	12	7	0	5	0	0	0	0	0	0	0	0	0
4:00 PM	23	1	13	5	0	4	0	0	0	0	0	0	0	0	0
5:00 PM	18	0	10	6	0	2	0	0	0	0	0	0	0	0	0
6:00 PM	20	1	13	4	0	2	0	0	0	0	0	0	0	0	0
7:00 PM	15	0	10	5	0	0	0	0	0	0	0	0	0	0	0
8:00 PM	13	0	6	5	0	2	0	0	0	0	0	0	0	0	0
9:00 PM	4	0	3	1	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	3	0	2	1	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	3	0	2	1	0	0	0	0	0	0	0	0	0	0	0
Total	353	6	190	104	1	47	1	0	4	0	0	0	0	0	0
%		1.7	53.8	29.5	0.3	13.3	0.3	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0

Location City, State Grip Road 1,500 feet e/o Prairie Road

Counter #

: Bow, Skajit County

: NT-2808

Site: Loc 01 8/19/2020 Wednesday

Daily Classification

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Tailgating
12:00 AM	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0
1:00 AM	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	4	0	2	1	0	1	0	0	0	0	0	0	0	0	0
4:00 AM	6	0	2	1	0	3	0	0	0	0	0	0	0	0	0
5:00 AM	22	1	10	3	0	6	0	0	1	0	1	0	0	0	0
6:00 AM	44	1	21	19	0	3	0	0	0	0	0	0	0	0	0
7:00 AM	37	0	17	17	0	2	0	0	1	0	0	0	0	0	0
8:00 AM	18	0	12	3	0	2	0	0	1	0	0	0	0	0	0
9:00 AM	3	0	2	1	0	0	0	0	0	0	0	0	0	0	0
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	15	0	10	1	0	0	4	0	0	0	0	0	0	0	0
1:00 PM	25	0	11	3	0	3	7	0	0	1	0	0	0	0	0
2:00 PM	24	0	6	5	0	2	11	0	0	0	0	0	0	0	0
3:00 PM	23	0	13	7	0	2	0	0	0	0	1	0	0	0	0
4:00 PM	23	0	12	7	0	3	0	0	1	0	0	0	0	0	0
5:00 PM	12	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	7	0	5	2	0	0	0	0	0	0	0	0	0	0	0
7:00 PM	8	0	5	1	0	2	0	0	0	0	0	0	0	0	0
8:00 PM	10	1	7	1	0	1	0	0	0	0	0	0	0	0	0
9:00 PM	8	1	4	2	0	1	0	0	0	0	0	0	0	0	0
10:00 PM	3	0	1	2	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	1	0	00	11	0	0	0	0	0	0	0	0	0	0	0
Total	298	4	150	83	0	32	22	0	4	1	2	0	0	0	0
%		1.3	50.3	27.9	0.0	10.7	7.4	0.0	1.3	0.3	0.7	0.0	0.0	0.0	0.0

Location

Grip Road 1,500 feet e/o Prairie Road

City, State

Bow, Skajit County

Counter #

: NT-2808

Site: Loc 01 8/20/2020 Thursday

Daily Classification

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Tailgating
12:00 AM	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	3	0	2	1	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	4	0	0	3	0	1	0	0	0	0	0	0	0	0	0
4:00 AM	5	0	0	2	0	3	0	0	0	0	0	0	0	0	0
5:00 AM	18	0	9	4	0	5	0	0	0	0	0	0	0	0	0
6:00 AM	35	0	17	14	0	4	0	0	0	0	0	0	0	0	0
7:00 AM	32	1	11	15	0	4	0	0	1	0	0	0	0	0	0
8:00 AM	23	0	13	7	0	2	0	0	1	0	0	0	0	0	0
9:00 AM	12	0	7	3	0	2	0	0	0	0	0	0	0	0	0
10:00 AM	17	0	10	6	0	1	0	0	0	0	0	0	0	0	0
11:00 AM	17	0	12	5	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	18	0	9	7	0	1	0	0	0	1	0	0	0	0	0
1:00 PM	14	0	6	6	0	0	0	0	2	0	0	0	0	0	0
2:00 PM	21	0	13	5	1	2	0	0	0	0	0	0	0	0	0
3:00 PM	21	0	13	5	0	3	0	0	0	0	0	0	0	0	0
4:00 PM	18	0	9	8	0	1	0	0	0	0	0	0	0	0	0
5:00 PM	17	0	7	5	0	5	0	0	0	0	0	0	0	0	0
6:00 PM	20	0	10	8	0	2	0	0	0	0	0	0	0	0	0
7:00 PM	10	0	5	4	0	0	0	0	1	0	0	0	0	0	0
8:00 PM	14	0	9	5	0	0	0	0	0	0	0	0	0	0	0
9:00 PM	6	0	4	1	0	1	0	0	0	0	0	0	0	0	0
10:00 PM	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	330	1	169	116	1	37	0	0	5	1	0	0	0	0	0
%		0.3	51.2	35.2	0.3	11.2	0.0	0.0	1.5	0.3	0.0	0.0	0.0	0.0	0.0

Location City, State : Grip Road 1,500 feet e/o Prairie Road

Counter #

: Bow, Skajit County

: NT-2808

Site: Loc 01 8/21/2020 Friday

Daily Classification

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi Ta	ilgating
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	4	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	4	0	0	2	0	2	0	0	0	0	0	0	0	0	0
5:00 AM	17	0	9	3	0	4	1	0	0	0	0	0	0	0	0
6:00 AM	39	0	20	15	0	4	0	0	0	0	0	0	0	0	0
7:00 AM	31	0	15	14	0	2	0	0	0	0	0	0	0	0	0
8:00 AM	21	0	14	3	1	2	0	0	1	0	0	0	0	0	0
9:00 AM	17	0	7	6	1	3	0	0	0	0	0	0	0	0	0
10:00 AM	20	0	9	5	1	3	0	0	2	0	0	0	0	0	0
11:00 AM	20	1	11	5	0	2	0	0	1	0	0	0	0	0	0
12:00 PM	19	0	10	5	1	3	0	0	0	0	0	0	0	0	0
1:00 PM	23	0	12	11	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	18	0	9	8	0	0	0	0	1	0	0	0	0	0	0
3:00 PM	16	0	7	6	0	1	0	0	2	0	0	0	0	0	0
4:00 PM	17	0	9	3	0	5	0	0	0	0	0	0	0	0	0
5:00 PM	18	0	10	6	0	1	0	1	0	0	0	0	0	0	0
6:00 PM	20	1	10	7	0	0	0	2	0	0	0	0	0	0	0
7:00 PM	8	0	4	3	0	1	0	0	0	0	0	0	0	0	0
8:00 PM	4	0	2	1	0	1	0	0	0	0	0	0	0	0	0
9:00 PM	7	0	5	2	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	5	0	1	3	0	1	0	0	0	0	0	0	0	0	0
11:00 PM	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Total	331	2	169	110	4	35	1	3	7	0	0	0	0	0	0
%		0.6	51.1	33.2	1.2	10.6	0.3	0.9	2.1	0.0	0.0	0.0	0.0	0.0	0.0

Location

: Grip Road 1,500 feet e/o Prairie Road

City, State

: Bow, Skajit County

Counter #

: NT-2808

Site: Loc 01 8/17/2020 Monday

Daily Classification

EΒ

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Mu l ti	>6 Axle Multi 1	Tailgating
12:00 AM	4	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM	3	0	1	1	0	1	0	0	0	0	0	0	0	0	0
6:00 AM	4	0	2	1	0	1	0	0	0	0	0	0	0	0	0
7:00 AM	9	0	4	3	0	0	0	0	2	0	0	0	0	0	0
8:00 AM	6	0	2	2	0	1	0	0	1	0	0	0	0	0	0
9:00 AM	15	0	6	5	0	4	0	0	0	0	0	0	0	0	0
10:00 AM	16	0	7	6	0	2	0	0	1	0	0	0	0	0	0
11:00 AM	16	0	8	6	0	1	0	0	0	0	0	0	0	1	0
12:00 PM	18	0	13	3	0	1	0	0	1	0	0	0	0	0	0
1:00 PM	22	0	8	6	0	7	0	0	1	0	0	0	0	0	0
2:00 PM	20	1	12	5	0	2	0	0	0	0	0	0	0	0	0
3:00 PM	36	0	15	11	0	9	0	0	1	0	0	0	0	0	0
4:00 PM	39	0	20	11	0	6	1	0	0	0	0	0	0	1	0
5:00 PM	46	1	16	20	0	9	0	0	0	0	0	0	0	0	0
6:00 PM	21	0	12	6	0	3	0	0	0	0	0	0	0	0	0
7:00 PM	18	0	14	2	0	1	0	0	1	0	- 0	0	0	0	0
8:00 PM	12	1	8	2	0	0	0	0	1	0	0	0	0	0	0
9:00 PM	8	0	5	3	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	7	0	3	4	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	1_	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Total	323	3	161	99	0	48	1	0	9	0	0	0	0	2	0
%		0.9	49.8	30.7	0.0	14.9	0.3	0.0	2.8	0.0	0.0	0.0	0.0	0.6	0.0

Location

: Grip Road 1,500 feet e/o Prairie Road

City, State

: Bow, Skajit County

Counter #

: NT-2808

Site: Loc 01 8/18/2020 Tuesday

Daily Classification

EB

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi Ta	ilgating
12:00 AM	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	4	0	3	1	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM	5	0	3	1	0	0	0	0	1	0	0	0	0	0	0
6:00 AM	4	0	1	0	0	2	0	0	1	0	0	0	0	0	0
7:00 AM	7	0	5	1	0	1	0	0	0	0	0	0	0	0	0
8:00 AM	10	0	2	4	0	3	0	0	0	1	0	0	0	0	0
9:00 AM	4	0	1	2	0	1	0	0	0	0	0	0	0	0	0
10:00 AM	8	0	5	2	0	1	0	0	0	0	0	0	0	0	0
11:00 AM	19	1	6	8	0	2	0	1	0	0	0	0	0	1	0
12:00 PM	14	1	7	4	0	2	0	0	0	0	0	0	0	0	0
1:00 PM	17	0	11	2	0	2	1	0	1	0	0	0	0	0	0
2:00 PM	27	1	14	8	0	4	0	0	0	0	0	0	0	0	0
3:00 PM	40	0	19	13	0	7	0	0	0	0	1	0	0	0	0
4:00 PM	44	0	20	17	0	7	0	0	0	0	0	0	0	0	0
5:00 PM	49	2	19	18	0	9	0	0	1	0	0	0	0	0	0
6:00 PM	39	2	16	16	0	3	0	0	2	0	0	0	0	0	0
7:00 PM	23	0	13	9	0	1	0	0	0	0	0	0	0	0	0
8:00 PM	17	0	12	3	0	2	0	0	0	0	0	0	0	0	0
9:00 PM	16	. 1	8	5	0	2	0	0	0	0	0	0	0	0	0
10:00 PM	12	0	6	6	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	5	0	3	2	0	0	0	0	0	0	0	0	0	0	0
Total	369	8	177	124	0	49	1	1	6	1	1	0	0	1	0
%		2.2	48.0	33.6	0.0	13.3	0.3	0.3	1.6	0.3	0.3	0.0	0.0	0.3	0.0

Location

Grip Road 1,500 feet e/o Prairie Road

City, State

: Bow, Skajit County

Counter #

: NT-2808

Site: Loc 01 8/19/2020 Wednesday

Daily Classification

EB

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi Ta	ilgating
12:00 AM	4	0	2	1	0	1	0	0	0	0	0	0	0	0	0
1:00 AM	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
6:00 AM	7	0	3	1	0	3	0	0	0	0	0	0	0	0	0
7:00 AM	9	0	1	3	0	1	3	1	0	0	0	0	0	0	0
8:00 AM	19	0	6	4	0	1	2	5	1	0	0	0	0	0	0
9:00 AM	6	0	1	1	0	0	3	1	0	0	0	0	0	0	0
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	9	0	5	2	0	0	1	0	1	0	0	0	0	0	0
1:00 PM	16	0	11	2	0	2	1	0	0	0	0	0	0	0	0
2:00 PM	14	0	7	5	0	2	0	0	0	0	0	0	0	0	0
3:00 PM	19	0	2	11	0	3	2	0	1	0	0	0	0	0	0
4:00 PM	34	0	9	19	0	5	1	0	0	0	0	0	0	0	0
5:00 PM	45	0	20	16	0	8	0	0	1	0	0	0	0	0	0
6:00 PM	25	0	13	9	0	2	0	0	1	0	0	0	0	0	0
7:00 PM	22	0	7	12	0	2	0	0	1	0	0	0	0	0	0
8:00 PM	15	0	7	6	0	2	0	0	0	0	0	0	0	0	0
9:00 PM	7	0	4	3	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	5	0	4	0	0	1	0	0	0	0	0	0	0	0	0
11:00 PM	5	0	2	2	0	1	0	0	0	0	0	0	0	0	0
Total	266	0	108	98	0	34	13	7	6	0	0	0	0	0	0
%		0.0	40.6	36.8	0.0	12.8	4.9	2.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0

Location City, State Grip Road 1,500 feet e/o Prairie Road

Bow, Skajit County

Counter #

: NT-2808

Site: Loc 01 8/20/2020 Thursday

Daily Classification

EB

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Tailgating
12:00 AM	4	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	3	0	2	1	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
6:00 AM	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0
7:00 AM	4	0	1	2	0	1	0	0	0	0	0	0	0	0	0
8:00 AM	11	0	6	4	0	1	0	0	0	0	0	0	0	0	0
9:00 AM	6	0	5	1	0	0	0	0	0	0	0	0	0	0	0
10:00 AM	17	0	8	8	0	1	0	0	0	0	0	0	0	0	0
11:00 AM	19	0	11	5	0	3	0	0	0	0	0	0	0	0	0
12:00 PM	18	0	7	8	0	2	0	0	0	1	0	0	0	0	0
1:00 PM	23	0	8	11	1	3	0	0	0	0	0	0	0	0	0
2:00 PM	21	0	5	12	0	4	0	0	0	0	0	0	0	0	0
3:00 PM	30	0	11	14	0	3	1	0	1	0	0	0	0	0	0
4:00 PM	37	0	18	14	0	5	0	0	0	0	0	0	0	0	0
5:00 PM	50	0	20	18	0	11	0	0	1	0	0	0	0	0	0
6:00 PM	37	0	20	11	0	5	0	0	1	0	0	0	0	0	0
7:00 PM	24	0	11	9	0	3	1	0	0	0	0	0	0	0	0
8:00 PM	16	0	6	6	0	3	0	0	1	0	0	0	0	0	0
9:00 PM	8	0	3	4	0	1	0	0	0	0	0	0	0	0	0
10:00 PM	6	0	2	4	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Total	342	0	147	138	1	49	2	0	4	1	0	0	0	0	0
%		0.0	43.0	40.4	0.3	14.3	0.6	0.0	1.2	0.3	0.0	0.0	0.0	0.0	0.0

Location

Grip Road 1,500 feet e/o Prairie Road

City, State

: Bow, Skajit County

Counter #

1 NT-2808

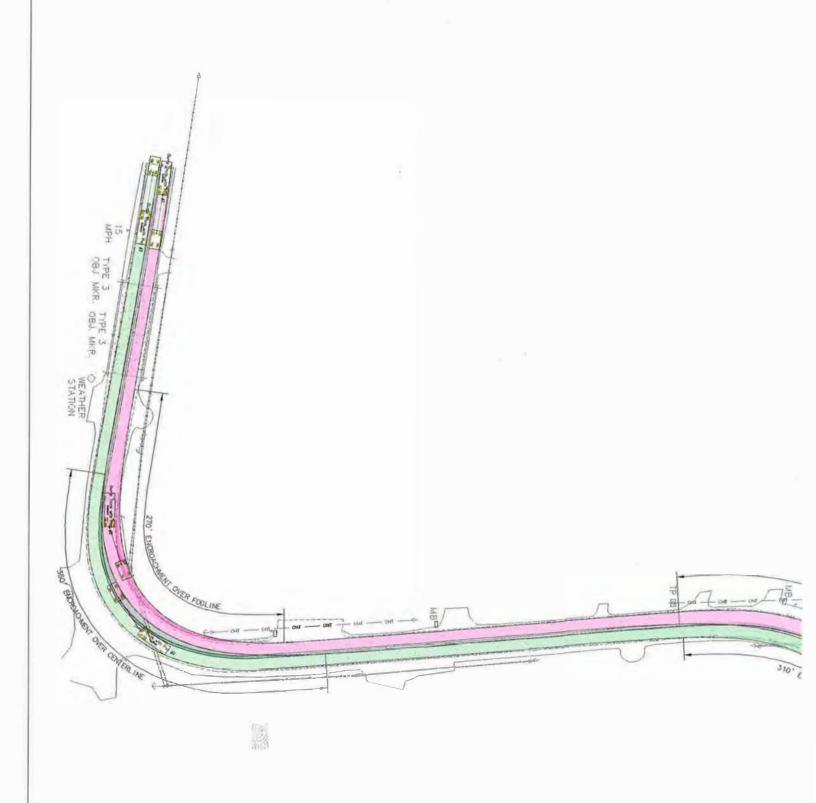
Site: Loc 01 8/21/2020 Friday

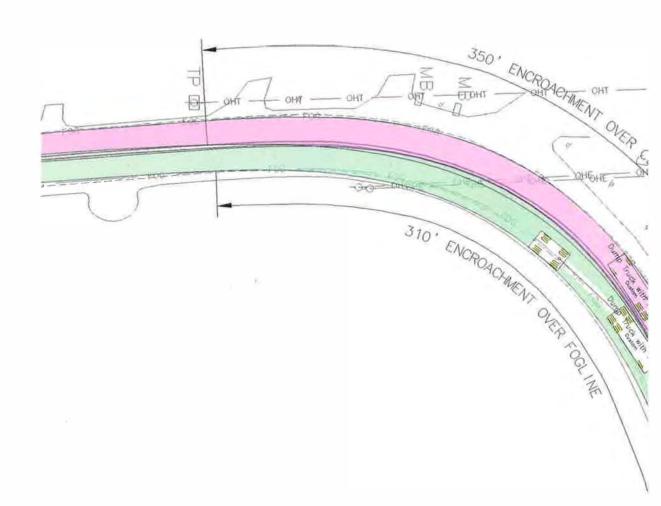
Daily Classification

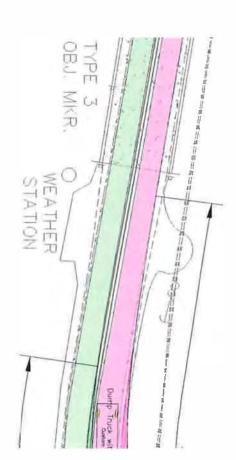
ΕB

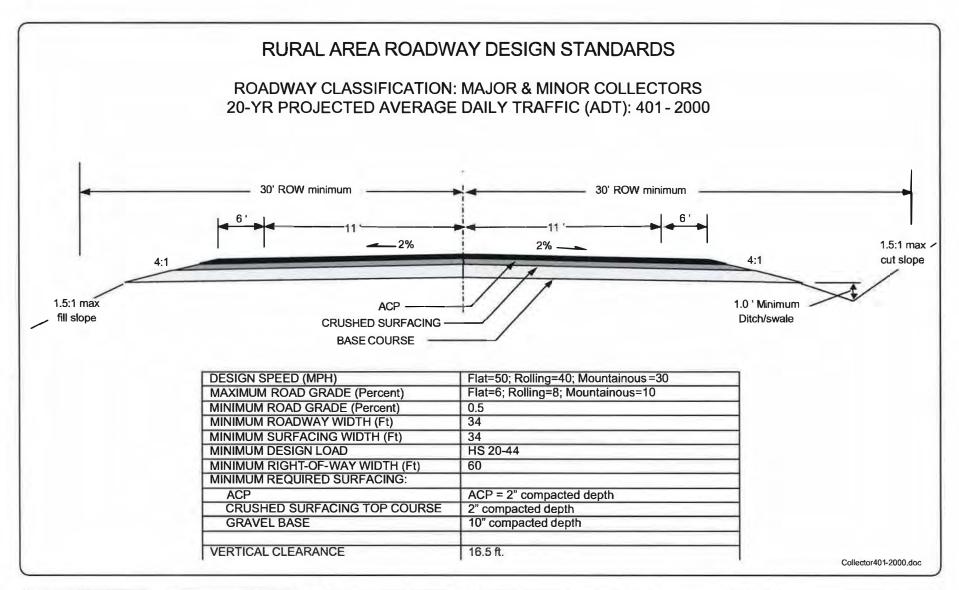
Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi 1	ailgating
12:00 AM	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0
5:00 AM	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0
6:00 AM	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0
7:00 AM	9	0	4	* 2	2	1	0	0	0	0	0	0	0	0	0
8:00 AM	12	0	3	5	1	3	0	0	0	0	0	0	0	0	0
9:00 AM	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10:00 AM	12	0	6	3	1	2	0	0	0	0	0	0	0	0	0
11:00 AM	18	1	7	7	1	1	0	0	1	0	0	0	0	0	0
12:00 PM	19	0	10	7	0	2	0	0	0	0	0	0	0	0	0
1:00 PM	24	0	11	10	0	3	0	0	0	0	0	0	0	0	0
2:00 PM	30	0	11	13	0	5	1	0	0	0	0	0	0	0	0
3:00 PM	26	0	10	10	0	6	0	0	0	0	0	0	0	0	0
4:00 PM	31	0	8	14	0	6	0	0	3	0	0	0	0	0	0
5:00 PM	28	0	10	13	0	4	1	0	0	0	0	0	0	0	0
6:00 PM	26	0	13	9	0	2	1	0	1	0	0	0	0	0	0
7:00 PM	23	0	13	8	0	1	1	0	0	0	0	0	0	0	0
8:00 PM	12	0	5	7	0	0	0	0	0	0	0	0	0	0	0
9:00 PM	15	0	5	7	0	3	0	0	0	0	0	0	0	0	0
10:00 PM	8	0	7	0	0	1	0	0	0	0	0	0	0	0	0
11:00 PM	6	0	4	1	0	1	0	0	0	0	0	0	0	0	0
Total	311	1	134	120	5	42	4	0	5	0	0	0	0	0	0
%		0.3	43.1	38.6	1.6	13.5	1.3	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0

TRUCK/PUP VEHICLE PATHS PRAIRIE RD EAST OF OLD HIGHWAY 99N



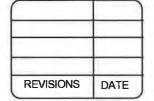






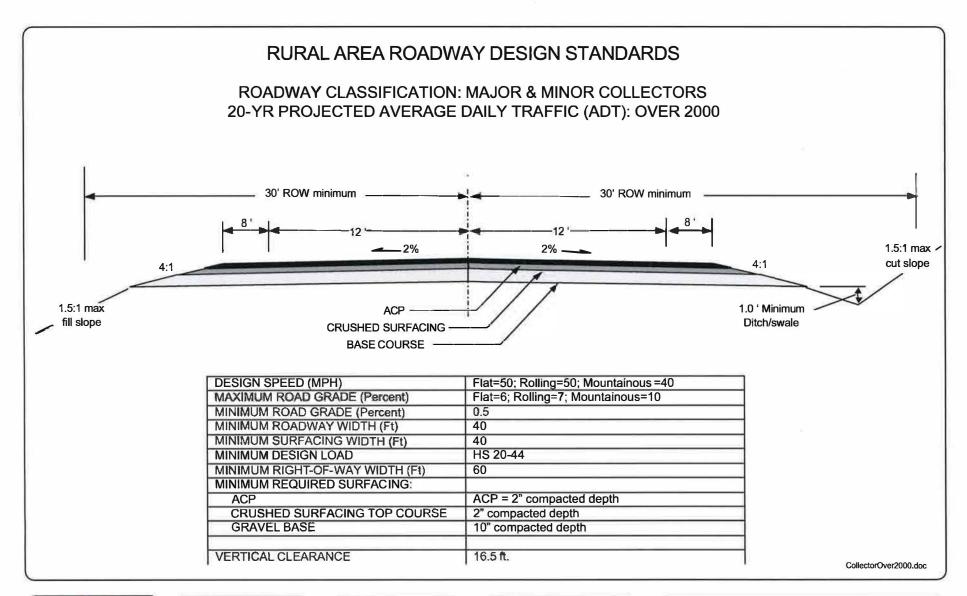


SKAGIT COUNTY DEPARTMENT OF PUBLIC WORKS



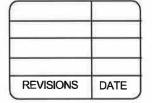
ROADWAY STANDARDS RURAL MAJOR & MINOR COLLECTOR ROADWAY SECTION ADT 401 - 2000 FIGURE B - 6

6/26/2000





SKAGIT COUNTY DEPARTMENT OF PUBLIC WORKS



ROADWAY STANDARDS RURAL MAJOR & MINOR COLLECTOR ROADWAY SECTION ADT OVER 2000 FIGURE B - 7

6/26/200