Transportation Planners and Traffic Engineers

ACCESS MEMORANDUM

To:

Roland Storme, Local Agency and Development Services Manager

From:

Matthew Palmer, PEMOP

Subject:

SR-20 Access Analysis at MP 95.10

Date:

September 19, 2019

Project:

Skagit Aggregates, GTC #19-155

Gibson Traffic Consultants, Inc. (GTC) has been retained to provide trip generation and access analysis for a WSDOT Application for Access Connection.

The expansion site is located on the south side of SR-20 at MP 95.13. The site is east of the town of Concrete and west of the town of Rockport (SR-530). The access is existing today, and it serves the existing gravel mine and the existing Skagit County Public Works transfer station.

1. EXISTING CONDITIONS

SR-20 is a 2-lane roadway that is generally aligned east-west in the site vicinity. The roadway has 11-foot travel lanes with varying widths of paved shoulder (primarily 8 feet) and a ditch along the south side of the roadway. The posted speed limit in the site vicinity is 55 mph.

PM peak-hour count data was collected along SR-20 at the site existing site access, by Traffic Data Gathering (TDG) on August 7, 2019. The data shows that there are 258 total intersection trips occurring during the PM peak-hour¹. The TDG data was compared to data from the WSDOT 2016 Annual Traffic Report (2016 ATR). The 2016 ATR volumes at MP 94.37 is 2,700 daily trips; the PM peak-hour typically represents 8-10% of the daily trips; therefore, the counts are consistent with the daily trip generation in the area. The 2016 ATR includes data from 2013 which shows there to be 2,500 ADT on SR-20 in the site vicinity. This equates to a 2.6% annual compounding growth rate over the 3 years.

2. SITE DEVELOPMENT

The subject site is currently approximately 10 acres and the expansion of the site would add an additional 30 acres. With the expansion the site is not anticipated to exceed its current material maximum output of 50,000 tons per year. The expansion will simply extend the life of the mine out at least an additional 20 years.

¹ Based on highest peak-hour of the data between 3:30 and 6:00 PM.

2.1. Trip Generation

Trip generation calculations for the Skagit Aggregates gravel mine is based on the information provided by the client and prior GTC experience pertaining to similar earthmoving activities. As stated by the client, the amount of material extracted will be 50,000 tons/year, which is consistent with amount of material extracted in 2018. Each truck and trailer combination can carry approximately 30 tons of material and single tuck can carry approximately 15 tons.

Based on the estimates from other trucking operations it is anticipated that 70% of the trips will be truck and trailer and 30% single trucks. It is also anticipated that the operation would have up to 312 workdays a year; therefore, to move 50,000 tons would require an estimated 14 truck trips in & out per day (7 loads per day). It is anticipated that the in/out percentages will reflect that of gravel mines and other heavy truck operations with 15% of the ADT occurring during the AM peak-hour and as a "worst case" 15% during the PM peak-hour.

The Skagit Aggregates gravel mine site is anticipated to generate 14 average daily trips (ADT) with 2 AM peak-hour truck trips (1 inbound/1 outbound) and 2 PM peak-hour truck trips (1 inbound/1 outbound). A trip generation summary has been included in Table 1. The trip generation calculations have been included in the attachments.

The trip generation of the site is summarized in Table 1.

Average AM Peak-Hour Trips PM Peak-Hour Trips Land Use Units Daily Total Out Total In Out In Trips Gravel Mine 7 Trucks 14 1 1 2 1 2

Table 1: Trip Generation Summary

It is important to note that the trip generation for the site is currently occurring and that there will likely be no additional trips with the expansion as the output of the gravel mine isn't increasing. The trips calculated being added to the existing count should therefore be considered conservative.

The trip generation calculations are included in the attachments.

3. ACCESS ANALYSIS

The gravel mine expansion is proposed to utilize the existing full access to SR-20 at MP 95.13.

3.1. Access Classification

This section of SR-20 is identified as a managed access Class 2 facility. Per *Exhibit 540-1* of the WSDOT *Design Manual*, a Class 2 facility has the limitation of not allowing a private access connection unless no other reasonable access exists. The property is land locked with an access easement through the adjacent parcel, parcel ID P44866 located at 50796 State Route 20; therefore, the continued use of the existing access should be allowed. In addition, *Exhibit 540-1* identifies the required access spacing of 660 feet for connections located on the same side of the highway. To the west of the access there is approximately 1,480 feet of separation from the adjacent access; however, to the east there is 390 feet of separation to an existing access serving a house and a couple of sheds. With the low volumes of these two driveways it is anticipated that there will not be any negative interaction that would preclude the use of the existing access to continue with the gravel mine expansion.

3.2. Collision History

Collision data was requested from WSDOT from January 2014 through December 2018 for the section of SR-20 from MP 95.03 to 95.23 (access is located at approximately MP 95.13). There was one rear end collision in this section of SR-20 for the last 5 years.

3.3. Channelization Warrant Analysis

The access has been analyzed using WSDOT channelization warrants to determine if right-turn and left-turn channelization are warranted. The right-turn warrants are based on WSDOT Design Manual, Right-Turn Lane Guidelines (Exhibit 1310-11, November 2015) and the left-turn warrants are based on WSDOT Design Manual, Left-Turn Storage Guidelines: Two-Lane, Unsignalized (Exhibit 1310-7a, November 2015). The PM peak-hour turning movement volumes at the access are based on applying a 2.6% annually compounding growth rate to the PM peak-hour volumes and adding the site's PM peak-hour trips to the existing PM peak-hour volumes on SR-20. The turning movement calculations are included in the attachments. Based on the low turning volumes and the low amount of through traffic a right-turn and left-turn is not warranted.

3.4. Intersection Operation

The intersection has been analyzed to determine the level of service (LOS) for the intersection. The intersection level of service analysis has been performed using the same turning movement volumes used for the channelization warrant analysis and the existing channelization. The intersection is anticipated to operate at LOS B with a single outbound lane. This is better than WSDOT's most stringent standard of LOS C and should therefore be considered acceptable.

3.5. Sight Distance

SR-20 has a 55-mph speed limit in the site vicinity. A 55-mph design speed per *Exhibit 1340-3* of the WSDOT *Design Manual* requires intersection sight distances of 495 feet to both the east and west of the access. Based on preliminary field work GTC staff anticipates that there is over 600 feet of intersection sight distances in both directions at the existing/proposed site access location.

4. CONCLUSIONS

The subject site is anticipated to expand by approximately 30 acres; however, the anticipated extraction of material from the site is to remain at a maximum of 50,000 tons/year. The 30 acres will allow the life of the gravel mine to extend out at least an additional 20 years. The site is likely not to generate many new trips due to the existing operation continuing. Based on the proposed future trips along SR-20 and the access, the volumes will not warrant a left or right-turn pocket on SR-20. The site access is anticipated to operate at LOS B or better. There was no collision history to indicate that the existing access would have an operational deficiency and need to be altered in any way. There is also more than sufficient sight distance for a vehicle to stop on SR-20 if something is in the roadway at the access point. For these reasons the access permit should be granted under the existing configuration of the access.

Trip Generation Calculations

1-YEAR TRIP GENERATION

								Out
In + Out	per day 14			14				In
				Total				Total
In a Year	50,000 tons 1,961 truck trips							
П	%02	30%	%0					
50,000 tons/year	30 T & T	15 Single	OS 0	10	9	52	312	
50,000 tons total in 1 year	tons/truck	tons/truck	tons/truck	Hours per Day	Days/Week	Weeks/Year	Days/Year	

2 2 2

Daily

15% of Daily is AM peak-hour 15% of Daily is PM peak-hour

Volume Data and Calculations

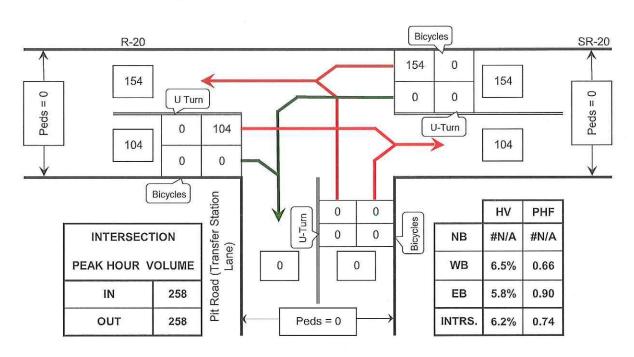


TURNING MOVEMENTS DIAGRAM

3:37 - 6:00 PM PEAK HOUR:

4:45 PM TO 5:45 PM





HV = Heavy Vehicles PHF = Peak Hour Factor

50796 SR-20

Concrete, WA

COUNTED BY:

TDG

DATE OF COUNT:

Wed. 8/7/19

REDUCTION DATE:

Thu. 8/8/19

TIME OF COUNT:

3:37 - 6:00 PM

TRAFFIC DATA GATHERING

INTERSECTION TURNING MOVEMENTS REDUCTION SHEET

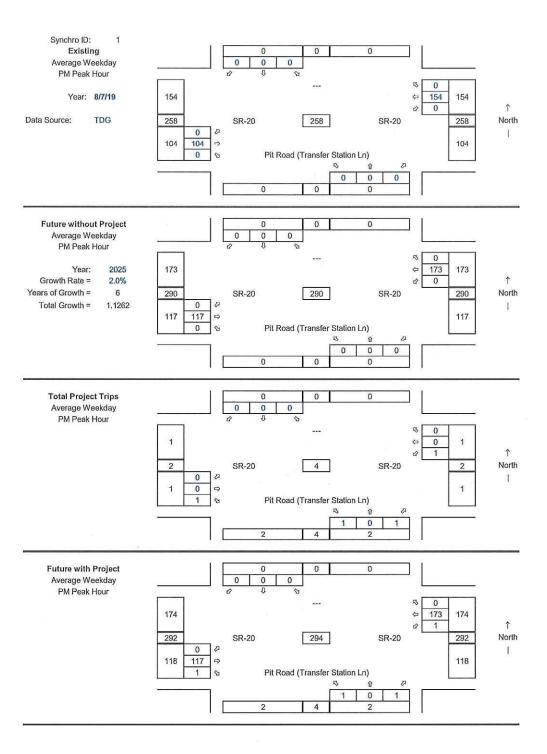
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	Concr	Concrete, WA								1		MIT	TIME OF COUNT:	CUNT:		3:37 -	3:37 - 6:00 PM							DATEO	F REDU	DATE OF REDUCTION:	50 1290	8/8/2019
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02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0
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03:45 PM	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	15	0	32
04:00 PM	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	es	0	٥	25	0	0	0	5	0	0	23	-	49
04:15 PM	0	0	0	0	0	0	٥	0 0	0	0	0	0	0	0	0	4	0	0	31	0	0	0	1	0	0	28	0	29
04:30 PM	0	0	0	0	0	0	٥	0 0	0	0	0	0	0	0	0	2	0	0	22	0	0	0		0	0	23	0	45
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05:00 PM	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	2	0	0	31	0	0	0	2	0	0	26	0	57
05:15 PM	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	2	0	0	28	0	0	0	1	0	0	53	0	87
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	30	0	0	0	2	0	0	27	0	57
05:45 PM	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	-	0	0	32	0	0	0	1	0	0	22	0	57
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HV = Hoavy Vehicle PHF = Peak Hour Factor

3:37 - 6:00 PM PEAK HOUR: 4:45 PM TO 5:45 PM

ROLLING HOUR COUNT

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									Pit R	ad (Tra	Pit Road (Transfor Station Lane)	tion La.	(out				· v	SR-20						ıL	R-20				INTERVAL
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3:30 PM - 4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	95	0	0	0	7	0	0	88	,-	185
3:45 PM - 4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	66	0	0	0	8	0	0	102		202
4:00 PM - 5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	105	0	0	0	5	0	0	105	0	210
4:15 PM - 5:15 PM	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	12	0	٥	132	0	0	0	5	0	0	106	0	238
4:30 PM - 5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	٥	140	0	0	0	9	0	0	110	0	250
4:45 PM - 5:45 PM	0	٥	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	10	0	0	154	0	0	0	9	0	0	104	0	258
5:00 PM - 6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	154	0	0	0	5	0	0	96	0	250
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Washington State Department of Transportation

In cooperation with the United States Department of Transportation Federal Highway Administration

STATE OF WASHINGTON - DEPARTMENT OF TRANSPORTATION T R I P S Y S T E M ANNUAL TRAFFIC REPORT

C VOLUME	15 2016 IS UNITS	0 2700	2300	2200	2100	1900	1700	1400	1100	1000	1100	1600	2000+	3500	0* 4600	2000	4000	0* 5400	3200	1400	1800*	3800*	*0005	2500*	2200*	2600*	1600*	1400*	* 0 1 0
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DAILY	2014 UNITS	2500*	2100*	2000*	1900*	1600*	1500*	1200*	910*	*088	*068	1200	1700*	2900	4000	4400	4100	5500	3100	1400	1700	3800	5100	2600	2300	3000	1700	1300	0 -
AVERAGE	2013 UNITS	2500	2300	2100	2300	1600	1500		940	950	096	1200	1600*	2900	3900	4300	4100	5500	3000*	1400*	1600*	3800*	*0005	2600*	2300*	3000€	1700*	1300*	* C Q
	TRUCK PERCENTAGES SNGL DBL TRIPLE TOTAL												10																
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	FUNCT COUPLET CLASS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	IN 2	8	CONN 2	7	2	2	2	2	2	7	2	2	2	0
	LOCATION	AFTER JCT SAUK CONNECTION RD	BEFORE JCT SR 530 WYE CONN	AFTER JCT SR 530-E SAUK RD	BEFORE JCT CASCADE RD	AFTER JCT CASCADE RD WYE CONN	AFTER JCT THORNTON CREEK RD	AFTER JCT DIABLO RD WYE CONN	AT LILLIAN CREEK BRIDGE	BEFORE JCT CUTTHROAT CR RD	AFTER JCT CUTTHROAT CR RD	BEFORE JCT WOLF CREEK RD	AT PTR LOCATION R037	AT CHEWUCH CREEK BRIDGE	BEFORE JCT MAIN ST	AFTER JCT TWIN LAKES RD WYE CONN	AT TWISP RIVER BRIDGE	AFTER JCT TWISP CARLTON RD WYE	BEFORE JCT SR 153	AFTER JCT SR 153	BEFORE JCT OLD 97	AFTER JCT OLD 97	BEFORE JCT IONE ST	AFTER JCT SR 215	BEFORE JCT SR 97	AFTER JCT SR 97 WYE CONN	AT BONAPARTE CREEK BRIDGE	BEFORE JCT AENEAS VALLEY RD	OF THE SENERS WALTEV BD
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	STATE ROUTE	020	020	020	020	020	020	020	020	020	020	020	020	020	020	020	020	020	020	020	020	020	020	020	020	020	020	020	020

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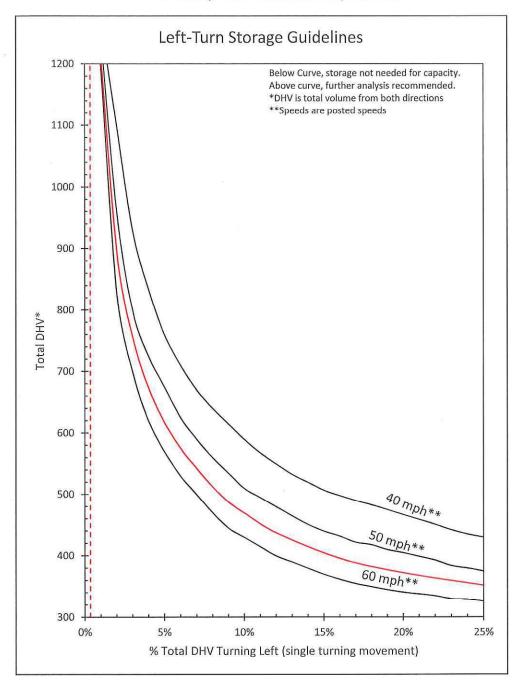
102

^{*} BASED ON ACTUAL COUNT + SOURCE OF TRUCK PERCENTAGES

Warrants and Level of Service

GIBSON TRAFFIC CONSULTANTS

Pit Road (Transfer Station Lane) at SR-20



Total DHV:

290

Posted Speed: 55 mph

Left Turns:

1

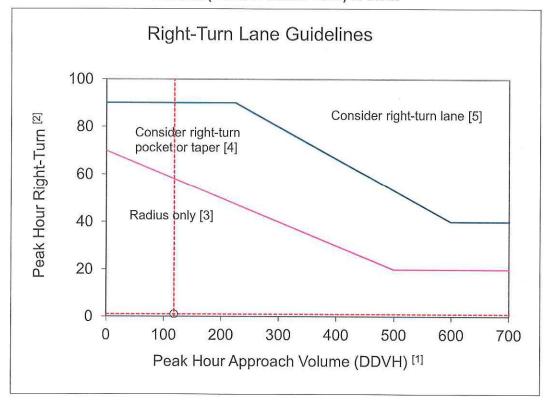
% Left: 0.3%

-Note the 290 trips does not make it on to the graph.

Based on WSDOT November 2015 Design Manual: Exhibit 1310-7a, Page 1310-14.

GIBSON TRAFFIC CONSULTANTS

Pit Road (Transfer Station Lane) at SR-20



Right Turn Volume: 1 [DDHV] Posted Speed: 55 mph
Adjusted Right Turn Volume: 1 [DDHV]
Pk Hr Curb Ln Approach Vol: 118 [DDHV]

[1] For two-lane highways, use the peak hour DDHV (through + right turn). For multilane, high speed highways (posted speed 45 mph or above), use the right-lane peak hour approach volume (through + right turn).

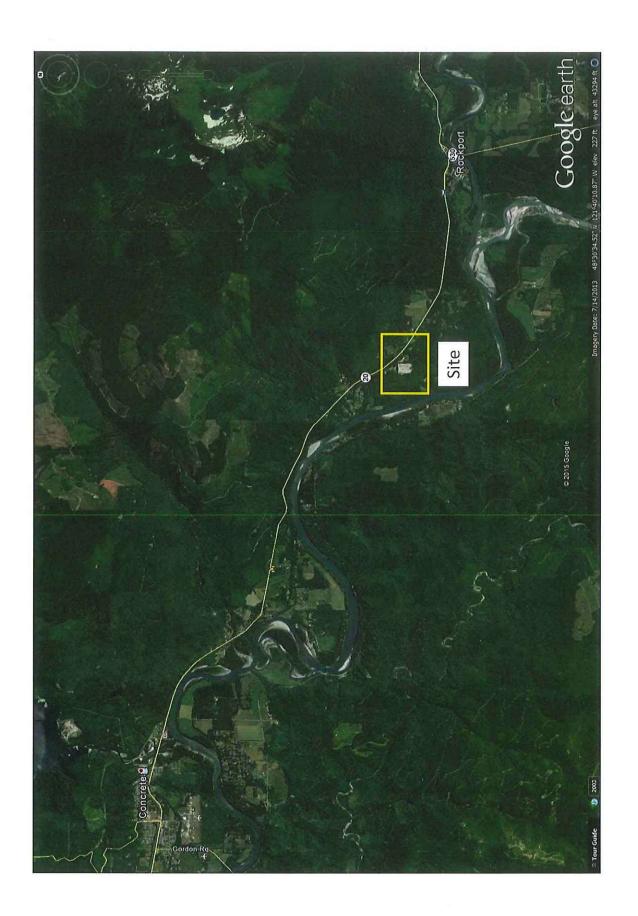
[2] When all three of the following conditions are met, reduce the right-turn DDHV by 20:

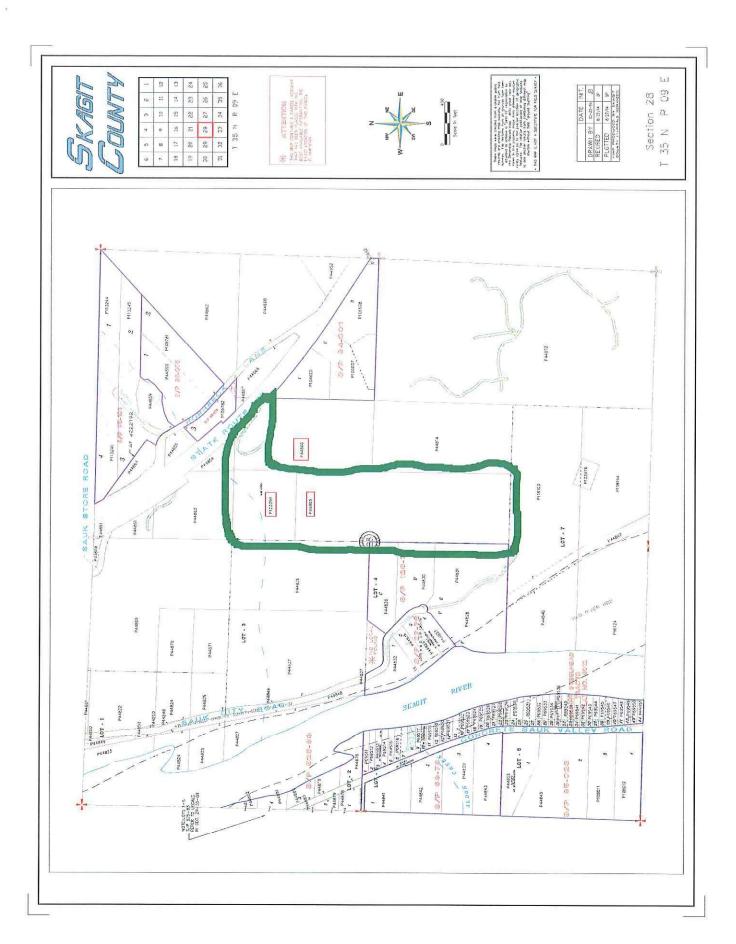
- The posted speed is 45 mph or less
- The right-turn volume is greater than 40 VPH
- The peak hour approach volume (DDHV) is less than 300 VPH.
- [3] For right-turn corner design, see Exhibit 1310-6.
- [4] For right-turn pocket or taper design, see Exhibit 1310-12.
- [5] For right-turn lane design, see Exhibit 1310-13.

Based on WSDOT November 2015 Design Manual: Exhibit 1310-11, Page 1310-27.

·		_					
Intersection							
Int Delay, s/veh	0.1						
Movement	EBT	EBR	WBL	WBT	NBL.	NBR	
Lane Configurations	B			4	N/I	1	
Traffic Vol, veh/h	117	1	1	173		1	
Future Vol, veh/h	117		1	173		1	
Conflicting Peds, #/hr	0	0	0	0	0	Ó	
-	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	The second second second	None	
Storage Length		NONE		140116	0	NOTIC	
Veh in Median Storag	0 #	Λ -		- 0		_	
Grade, %	The state of the s	-	-	. 0	0	-	
	0 74						
Peak Hour Factor			74		74	74	
Heavy Vehicles, %	6	6	6	6	6	6	
Mvmt Flow	158	1	1	234	1	1	
Major/Minor M	lajor1	N	/lajor2	Λ	/linor1		
Conflicting Flow All	0	0	159	0	395	159	
Stage 1			-	14	159		
Stage 2	-	-	-	-	236	•	
Critical Hdwy	-	, ~	4.16	-	6.46	6.26	
Critical Hdwy Stg 1			_		5.46	-	
Critical Hdwy Stg 2			_	-	5.46	_	
Follow-up Hdwy		4	2.254	2	3.554	3.354	
Pot Cap-1 Maneuver	S#	_	1396	_	602	876	
Stage 1	_	_	-	_	860	-	
Stage 2	-	=	-	-	794	-	
Platoon blocked, %		-		-			
Mov Cap-1 Maneuver	÷	-	1396	_	601	876	
Mov Cap-2 Maneuver		2 .		_	601	-	
Stage 1	_	4	_	4	859	-	
Stage 2		_	_	=	794	_	9
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Approach	EB		WB		NB		
Approach		1	0		10.1		
HCM Control Delay, s)	U		10.1 B		
HCM LOS					В		
	S						
Minor Lane/Major Mvm	nt i	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)		713	-	-	1396	-	
HCM Lane V/C Ratio		0.004		-	0.001	-	
HCM Control Delay (s	s)	10.1			7.6		
HCM Lane LOS		В		-	Α	Α	
HCM 95th %tile Q(ve	h)	() .		0	-	

Access and Collision Information





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SR 020	MAINLINE	NE		STATE ROUTE - S	SRSH	COUNTY	NTY SKAGIT	턴			Д	DOT DIST	DISTRICT 1			
SRMP B	ARM	FEATURE	ii <u>0</u>	DIRECTION TO INVENTORY ::LEFT/RIGHT INDICATOR :: D LR DESCRIPTION	-BRIDGE -UXING- -XROAD- OW TC L	DECRI DECRI LFT	WIDTH AND S DECREAS/DIV LFT RHT SHD RDY SHD ME W/S W/S W/S WI	MEDIAN-	INCRES/UNDI LET RHT SHD RDY SHD W/S W/S W/S	MATION /UNDI RHT Y SHD S W/S	ON I SPC IT USE TOT D INS RDY S WID WID	MTCE	CLASSIFICATIONS LEGAL	TICATIC LEGAL SPEED D IB	n ×	ı w H l
90.01	89.53	BEG BRIDGE	щ		N	т г			8A 24A \$\$W 40A	W.	8A 24 \$W 40	2 01	R2 R2	50	及及	
90.15 90.40 90.52	89.67 89.92 90.04		М			н ее еее			8A 24A 4A 24A 4A 24A		8A 24 6A 24 4A 24	2 01 2 01 2 01	R2 R2 R2	50 0	及及及	
91.00	90.52	MP MARKER BEG BRIDGE	м қ	91 JACKMAN CREEK	ST	1 1			\$\$C 26A	A \$\$C	C 26	5 2 01	R2	20	ద	
91.07 91.16 91.51	90.59 90.68 91.03		щ	BADG NON 020/202 JACKWAN CREEK VAN HORN RD MOEN RD	22	1			4A 24A		4A 24	2 01	RZ	20	æ	
92.00	91.52	MP MARKER INTRSECTN INTRSECTN	K K 니 t	92 MOEN RD JACKMAN CREEK RD	CO FIS											
93.13	92.65		М	GULCH BDAC MIW 020/25E	ST	1 1			\$\$C 26A	A \$\$C	G 26	2 01	R2	20	ద	
93.15	92.67		医鼠虫	GULCH NON 020/200 GULCH FISHING SAUK STORE RD	N N CC	T T			8A 22A		8A 22	2 01	R2	55	ĸ	
94.37	93.89 94.89	INTRSECTN MP MARKER	式 以 ዑ	SAUK CONNECTION RD	CO											
95.12	94.64		디꼬	TRANSFER STATION LN HORNBECK LN	PV CO N			,				C	ţ	i	t	
95.61 95.91	95.13 95.43	INTRSECTN	디저	ALDER DR LITTLEFIELD RD	PV CO N	- 1		519	10A 22A	# 10#	N		K	0	4	
95.99	95.51	INTRSECTN MP MARKER	디또	SAUK MOUNTAIN RD 96	N P	1 1			10A 22A	A 10A	A 22	2 01	R2	50	먾	
96.99 97.37 97.39	96.51 96.89 96.91	MISC INTE	1 K K K	97 SGN ENT ROCKPORT ALFRED ST												
97.43	96.95	WYE CONN	도 다	ALFRED ST SR 530	ST	1 1		•	10A 22A		8A 22	2 01	R2	20	ద	
INTERSECTION SRMP B ARM 96.48 96.0	ARM	STAIL	L NEAR LGT WD	R NEAR L FAR R FAR LGT WD LGT WD	A LEFT LGT WD	CCELERATI	-ACCELERATION LANES- L-CUTR R-CNTR F D LGT WD LGT WD	RIGHT- LGT WD								

LIMITED ACCESS AND MANAGED ACCESS MASTER PLAN FOR NORTHWEST REGION

SR	Spur or Couplet	MP	Begin Eq	CONTRACTOR OF THE PARTY OF THE	End Eq	Plan Title	Speed Limit	Current Access	WA Class	Established L/A	Planned L/A	L/A Acquired	Modificati Date
20 20		48.01		50.3		Jct S.S.H. No. 1-D to Swinomish Slough	55	L/A		Partial L/A		Yes - All	12/31/2003
20		50.3		54.95		March Point Rd to Fredonia	55	L/A	000	Partial L/A	B	Yes - All	12/31/2003
20		54.95 57.7	_	57.7 59.37		Fredonia - Avon Road Bayview - Burlington Naval Access Road	55 35-55	M/A	???		Partial L/A		12/31/2003
0		59.37	-	59.5		SR 5; Skagit River to Jct SR 20	35-35	M/A	Class 3 M/A Class 3 M/A		Partial L/A		12/31/2003
20		59.5		59.63		SR 5: Skagit River to Jct Sr 20	35	L/A	Cidss S IVVA	Full L/A		Yes - All	6/9/2003 9/19/2003
20		59.63		59.7		SR 5: Skagit River to Jct SR 20	35	MA	Class 4 M/A	FUII L/A	Modified L/A	res - All	12/31/2003
20		59.7		60.19		NO PLAN	30-35	MA	Class 4 M/A		Modified L/A		12/31/2003
20		60.19		60.55		Avon Avenue Route in Burlington	30	MA	Class 4 M/A		Modified L/A	-	12/31/2003
20		60.55		60.88		Cascade Highway Butler - Burlington Section	30	M/A	Class 4 M/A		Modified L/A		12/31/2003
20		60.88		63.18		N. Regent Street Vic. to Sterling Road Vic	30-50	MA	Class 4 M/A		Modified L/A		12/31/2003
20		63.18		63.5		Sterling Road Intersection	50	MA	Class 4 M/A		Modified L/A		12/31/2003
20		63.5		64.76		Lateral Highway NO. 19	35-50	MA	Class 4 M/A		Modified L/A	-	12/31/2003
20		64.76		65.19		SR 9: Howey Road to Sedro Woolley	35	M/A	Class 4 MA		Modified L/A		12/31/2003
20		65.19		66.08		SR 9: Sedro Woolley Vicinity	35	M/A	Class 4 M/A		Modified L/A		12/31/2003
20		66.08		66.29		SR 9 (North Leg) to Sedro Wooley E.C.L.	35	MA	Class 3 M/A		Modified L/A		12/31/2003
20		66.29		71.36		Sedro Wooley E.C.L. to Concrete W.C.L.	35/55	M/A	Class 2 M/A		Modified L/A		12/31/2003
20		71.36		76.64		Minkler Lake to Alder Creek	55	M/A	Class 2 M/A		Modified L/A		12/31/2003
20		76.64		77.97		Hamilton Vicinity	55	M/A	Class 2 M/A		Modified L/A		12/31/2003
20		77.97		79.58		Minkler Lake to Alder Creek	55	M/A	Class 2 M/A		Modified L/A		12/31/2003
20		79.58		81.81		G.H. Clark Road No. 311	55	M/A	Class 2 M/A		Modified L/A		12/31/2003
20		81.81		87.65		Birdsview to Concrete	55	M/A	Class 2 M/A		Modified L/A		12/31/2003
20		87.65		88.21		Concrete Vicinity	55	MA	Class 2 M/A		Modified L/A		12/31/2003
20		88.21		88.93		Concrete Vicinity	55-35	MA	Class 3 M/A		Modified L/A		12/31/2003
20		88.93		89.82		Concrete Vicinity	35-50	MA	Class 3 M/A		Modified L/A		12/31/2003
20		89.82		90.04		Concrete: D St. to East Corporate Limits	50	M/A	Class 2 M/A		Modified L/A		12/31/2003
20		90.04		90.38		Concrete: East Corporate Limits to MP 35.70	50	M/A	Class 2 M/A		Modified L/A		12/31/2003
0.0		90.38		91.14		Permanent Highway NO. 16	50	M/A	Class 2 M/A		Modified L/A		12/31/2003
20		91.14		92.79		Lateral Highway NO. 16	50	M/A	Class 2 M/A		Modified L/A		12/31/2003
20		92.79		93.06		Van Hom Vicinity	50	M/A	Class 2 M/A		Modified L/A		12/31/2003
0.0		93.06		95.42		Faber Hill Vicinity	50-55	M/A	Class 2 M/A		Modified L/A		12/31/2003
0		95.42		97.9		Rockport West	50-55	M/A	Class 2 M/A		Modified L/A		12/31/2003
20		97.9		103		Shular Rd to Corkindale Creek	50	M/A	Class 2 M/A		Modified L/A		12/31/2003
20		103		105.56		Rocky Creek to Marblemount vic	35-50	M/A	Class 2 M/A		Modified L/A		12/31/2003
0		105.56		106.51		Marblemount Vic: MP105.58 to MP106.53	35	MA	Class 2 M/A		Modified L/A		12/31/2003
0		106.51		110.53		MP 106.53 to Bacon Creek Bridge	35-50	MA	Class 2 M/A		Partial L/A		12/31/2003
20		110.53		119.78		Bacon Creek Bridge to New Halem Vicinity	30-50	MA	Class 2 M/A	Partial L/A			12/31/2003
20		110.7		110.78		Bacon Creek Bridge to New Halem Vicinity	50	L/A&M/A		Partial L/A		Yes-Left	12/31/2003
20		110.7		110.77		Bacon Creek Bridge to New Halem Vicinity	50	L/A&M/A		Partial L/A		Yes-Right	12/31/2003
0		116.94		117.53		Bacon Creek Bridge to New Halem Vicinity	50	L/A		Partial L/A		Yes - All	12/31/2003
0		119.65		119.78		Bacon Creek Bridge to New Halem Vicinity	30	L/A		Partial L/A		Yes - All	12/31/2003
0		119.78		120.94		New Halem Vicinity	30	M/A	Class 2 M/A		Partial L/A		12/31/2003
0		119.78		119.89	LT	New Halem Vicinity	30	L/A LT		Partial L/A		Yes - All	12/31/2003
0.		120.94		125.83		New Halem To Diablo Dam	30-50	M/A	Class 2 M/A		Partial L/A		12/31/2003
20		125.83		127.54		Diablo Dam to Thunder Arm (59)	50	M/A	Class 2 M/A		Partial L/A		12/31/2003
20		127.54		130.29		Diablo Dam to Thunder Arm (76)	50	L/A		Partial L/A		Yes - All	12/31/2003
20		130.29		148.09		Thunder Arm to Granite Cr. Crossing	50-60	L/A		Partial L/A		Yes - All	12/31/2003
										Lancon Space		100.000	
00		0		.42		Connecticut St. I/C: 4th Ave. S. and Transit Ramps		L/A		Full L/A		???	9/25/2002
1		THE STATE OF THE S								St. Assets			
00		.11		.18		SR 5, Seattle Freeway:Plum St. to Jackson St.		L/A		Full L/A		???	9/25/2002
		- 22				Jct. SR 5 to W. Shore Mercer Island, Sec. 1, Jct.							
90		.18		1.33		SR 5 to Brandner Place S.		L/A		Full L/A		???	9/25/2002
						Jct. SR 5 to W. Shore Mercer Island, Sec. 2,						12000	
_				10200		Brandner Place S. to W. Shore Mercer Island				R may			
0		1.33		3.25		(Begin Route MP 1.94)	30-60	L/A		Full L/A		Yes - All	12/31/2003
						Mercer Island: W. Shore to E. Channel Br. Sec. 1,							
10		3.25		4.27		W. Shore to 76th Ave. Vic.	60	L/A		Full L/A		Yes - All	12/31/2003
.						Mercer Island: W. Shore to E. Channel Br. Sec. 2,		199					
0	-	4.27		4.94		76th Ave. Vic. to Shorewood Dr. Vic.	60	L/A		Full L/A		Yes - All	12/31/2003
. 1		202020		2112/07		Mercer Island: W. Shore to E. Channel Br. Sec. 3,		Lucian		0.0000000			
0		4.94		6.21		Shorewood Dr. Vic. to E. Channel Br.	60	L/A		Full L/A			12/31/2003
0		6.21		7.71		E. Channel Br. to Richards Rd.	60	L/A		Full L/A		Yes - All	12/31/2003
0		7.71		11.73		Richards Rd. to Lk. Sammamish	60	L/A		Full L/A		Yes - All	12/31/2003
0		11.73		15.87		Lk. Sammamish to E. Issaquah I/C	60	L/A		Full L/A		Yes - All	12/31/2003
0		15.87		23.73		E. Issaquah I/C to Echo Lk. I/C	60/70	LA		Full L/A		Yes - All	12/31/2003
0		23.73		30.99		Echo Lk. I/C to Tanner	70	L/A		Full L/A		Yes - All	12/31/2003
2		30.84		34.49		Tanner to Lower Crossing Snoqualmie R.	70	L/A	000	Full L/A		Yes - All	12/31/2003
6		0		8.26		???	777	WA???	777			777	12/31/2003
9		5.7		6.75 6.15		Millon NCL to King Co. Line	???	MA???	???	333	777	777	12/31/2003
9		6.15		5.15 20.26		Millon NCL to King Co. Line	50	MA	Class 3 M/A	000			9/25/2002
9		20.26				???	???	???	???		???		9/25/2002
9		20.26		20.52		SR 518, Riverton Heights: SR 509 to SR 5	45	L/A	000	Full L/A	000		12/30/2003
9		20.52		22.53 25.61		??? South 118th St. to Jct. SSH No. 1-K	???	???	77?		777		9/25/2002
9		25.61		25.96			45/60	L/A		Full L/A			12/30/2003
9		25.96				S. Kenyon St. Vic. Duwamish Waterway Vic.	60/40	L/A	222	Full L/A		Yes - All	12/30/2003
		26.91		27.18 29.2		Duwamish Waterway Vic. First Ave. S. Br. to Spokane St.	40 40-50	MA	???	Full L/A			12/31/2003
		29.2		32.58		Spokane St. to Thomas St.	5040	MA	Class 4 M/A	Full L/A			12/31/2003
		32.58		37.46		Thomas St. to N. 85th St.		M/A M/A	Class 1 M/A				12/31/2003
9		37.46		43.5		N. 85th to King/Snohomish Co. Line	40-30		Class 3 M/A				9/25/2002
9		UF, 10		43.74		SR 104, 236th St. SW to Meridian Ave.	35/40 45	M/A L/A	Class 4 M/A	Dartiet I /A			9/25/2002
9		43.5		43.74 48.92		SR 104, 236th St. SW to Mendian Ave. SR 104 I/C to Lynnwood NCL	45	M/A	Class 4 144	Partial L/A		Yes - All	12/30/2003
9		43.5 43.72		50.36		Lynnwood NCL to SR 525	50	MA	Class 4 M/A Class 3 M/A				12/30/2003
9		43.72				Shelby Road to Lincoln Way	50	L/A	Class 3 NVA	Full L/A			8/27/2003
)		43.72 48.92		50.06		SR 525 to Everett Mall Way	50	M/A	Class 2 1414	Full L/A			9/19/2003
)		43.72 48.92 50.36		50.96				M/A	Class 3 M/A Class 4 M/A				8/27/2003
		43.72 48.92 50.36 50.96		53.43				nara.	LUBSS 4 M/A				
		43.72 48.92 50.36 50.96 53.43		53.43 55.11		Everett Mall Way to I 5	4035		Ciddo I livi	F. 111. 4:			9/25/2002
		43.72 48.92 50.36 50.96 53.43 55.11		53.43 55.11 55.41		Everett Mall Way to I 5 SR 5 Swamp Crk. to Jct. SSH No. 2-J	35	L/A		Full L/A		Yes - All	12/31/2003
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		43.72 48.92 50.36 50.96 53.43 55.11 24.53	£ £ £	53.43 55.11 55.41 24.68		Everett Mall Way to I 5 SR 5 Swamp Crk. to Jct. SSH No. 2-J Kingston Ferry Terminal to Illinois Ave.	35 25	L/A M/A	Class 4 M/A		Partial L/A	Yes - All	12/31/2003 12/30/2003
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		43.72 48.92 50.36 50.96 53.43 55.11 24.53 24.69	E E E E E E E E E E E E E E E E E E E	53.43 55.11 55.41 24.68 25.81	В	Everett Mall Way to I 5 SR 5 Swamp Crk. to Jet. SSH No. 2-J Kingston Ferry Terminal to Illinois Ave. Edmonds Ferry Terminal to 5th Ave.	35 25 40	L/A M/A L/A	Class 4 M/A	Partial L/A	Partial L/A	Yes - All Yes - All	12/31/2003 12/30/2003 12/30/2003
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		43.72 48.92 50.36 50.96 53.43 55.11 24.53 24.69 25.9	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	53.43 55.11 55.41 24.68 25.81 27.69	В	Everett Mall Way to 1 5 SR 5 Swamp Crk. to .lct. SSH No. 2-J Kingston Ferry Terminal to Illinois Ave. Edmonds Ferry Terminal to 5th Ave. ???	35 25 40 35/40	L/A M/A L/A ???		Partial L/A ???	Partial L/A	Yes - All Yes - All ???	12/31/2003 12/30/2003 12/30/2003 8/27/2003
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		43.72 48.92 50.36 50.96 53.43 55.11 24.53 24.69 25.9 27.69	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	53.43 55.11 55.41 24.68 25.81 27.69 28.34	В	Everett Mall Way to 1 5 SR 5 Swamp Crk. to Jct. SSH No. 2-J Kingston Ferry Terminal to Illinois Ave. Edmonds Ferry Terminal to 5th Ave. ??? 236th St. SW to Meridian Ave.	35 25 40 35/40 40	L/A M/A L/A ??? L/A	Class 4 M/A	Partial L/A ??? Partial L/A	Partial L/A	Yes - All Yes - All ??? Yes - All	12/31/2003 12/30/2003 12/30/2003 8/27/2003 12/30/2003
99 99 99 99 99 99 99 99 99 99 99 99 99		43.72 48.92 50.36 50.96 53.43 55.11 24.53 24.69 25.9 27.69 28.34	A 22	53.43 55.11 55.41 24.68 25.81 27.69 28.34 29.49	В	Everett Mall Way to 1 5 SR 5 Swamp Crk. to Jct. SSH No. 2-J Kingston Ferry Terminal to Illinois Ave. Edmonds Ferry Terminal to 5th Ave. ??? 236th St. SW to Meridian Ave. ???	35 25 40 35/40 40 40	L/A M/A L/A ???	Class 4 M/A	Partial L/A ??? Partial L/A ???	Partial L/A	Yes - All Yes - All ??? Yes - All	12/31/2003 12/30/2003 12/30/2003 8/27/2003
99 99 99 99 99 99 99 99 90 90 90 90 90 9		43.72 48.92 50.36 50.96 53.43 55.11 24.53 24.69 25.9 27.69 28.34 29.49	A 2	53.43 55.11 55.41 24.68 25.81 27.69 28.34 29.49 29.83	В	Everett Mall Way to 1 5 SR 5 Swamp Crk. to Jct. SSH No. 2-J Kingston Ferry Terminal to Illinois Ave. Edmonds Ferry Terminal to 5th Ave. ??? 236th St. SW to Meridian Ave. ??? SR 5: E. 200th to Swamp Crk.	35 25 40 35/40 40 40 40	L/A M/A L/A ??? L/A ???	Class 4 M/A ??? ???	Partial L/A ??? Partial L/A ??? Full L/A	Partial L/A ??? ???	Yes - All Yes - All 777 Yes - All 777	12/31/2003 12/30/2003 12/30/2003 8/27/2003 12/30/2003
99 99 99 99 99 99 99 99 99 90 04 004 004		43.72 48.92 50.36 50.96 53.43 55.11 24.53 24.69 25.9 27.69 28.34 29.49 29.83	A 2	53.43 55.11 55.41 24.68 25.81 27.69 28.34 29.49 29.83 32.28	В	Everett Mall Way to 1 5 SR 5 Swamp Crk. to .lct. SSH No. 2-1 Kingston Ferry Terminal to Illinois Ave. Edmonds Ferry Terminal to 5th Ave. ??? 236th St. SW to Meridian Ave. ??? SR 5: E. 200th to Swamp Crk.	35 25 40 35/40 40 40 40 40/30	L/A M/A L/A ??? L/A ???	Class 4 M/A ??? ??? ???	Partial L/A ??? Partial L/A ??? Full L/A ???	Partial L/A ??? ??? ???	Yes - All Yes - All ??? Yes - All ??? Yes - All	12/31/2003 12/30/2003 12/30/2003 8/27/2003 12/30/2003 9/25/2002
99 99 99 99 99 99 99 99 90 90 90 90 90 9		43.72 48.92 50.36 50.96 53.43 55.11 24.53 24.69 27.69 27.69 28.34 29.49 29.83 23	A 22	53.43 55.11 55.41 24.68 25.81 27.69 28.34 29.49 29.83 32.28 16.34	В	Everett Mall Way to 1 5 SR 5 Swamp Crk. to Jct. SSH No. 2-J Kingston Ferry Terminal to Illinois Ave. Edmonds Ferry Terminal to 5th Ave. ??? 236th St. SW to Meridian Ave. ??? SR 5: E. 200th to Swamp Crk. ???	35 25 40 35/40 40 40 40 40/30 50/45	L/A M/A L/A ??? L/A ??? ???	Class 4 WA ??? ??? ??? ???	Partial L/A ??? Partial L/A ??? Full L/A ??? ???	Partial L/A ??? ??? ???	Yes - All Yes - All ??? Yes - All ??? Yes - All ??? Yes - All ???	12/31/2003 12/30/2003 12/30/2003 8/27/2003 12/30/2003 9/25/2002 12/30/2003
99 99 99 99 99 99 99 99 90 90 90 90 90 9		43.72 48.92 50.36 50.96 53.43 55.11 24.53 24.69 25.9 27.69 28.34 29.49 29.83	A 22 23 31 32 32 32 32 32 32 32 32 32 32 32 32 32	53.43 55.11 55.41 24.68 25.81 27.69 28.34 29.49 29.83 32.28 16.34	В	Everett Mall Way to 1 5 SR 5 Swamp Crk. to .lct. SSH No. 2-1 Kingston Ferry Terminal to Illinois Ave. Edmonds Ferry Terminal to 5th Ave. ??? 236th St. SW to Meridian Ave. ??? SR 5: E. 200th to Swamp Crk.	35 25 40 35/40 40 40 40 40/30	L/A M/A L/A ??? L/A ???	Class 4 M/A ??? ??? ???	Partial L/A ??? Partial L/A ??? Full L/A ???	Partial L/A ??? ??? ???	Yes - All Yes - All ??? Yes - All ??? Yes - All ??? Yes - All ??? ???	12/31/2003 12/30/2003 12/30/2003 8/27/2003 12/30/2003 9/25/2002 12/30/2003 12/31/2003

Highway Classification Description Table

		ermits Allowe	d	Minimum	
Highway Classification & Definition	Non- Conforming	Variance	Conforming	Access Spacing	Access Limitations
Class 1* Mobility is primary function	Yes	No	No	1320'	1 access only to contiguous parcels under same ownership.
					Private direct access not allowed unless no other reasonable access exists. (Must use county road system if possible.)*
Class 2* Mobility Favored over Access	Yes	Yes	No	660'	1 access only to contiguous parcels under same ownership unless frontage > 1320'.
					Private direct access not allowed unless no other reasonable access exists. (Must use county road system if possible.)*
Class 3 Balance between Mobility and Access in	Yes	Yes	Yes	330'	1 access only to contiguous parcels under same ownership.
areas with less than Maximum Buildout					Joint access for subdivisions preferred, but private direct access allowed with reason.
Class 4 Balance between Mobility and Access in areas nearing Maximum Buildout	Yes	Yes	Yes	250'	1 access only to contiguous parcels under same ownership.
Class 5 Access needs may have priority over Mobility needs	Yes	Yes	Yes	125'	More than 1 connection per ownership allowed with reason.

^{*} The access connection shall continue until such time that other reasonable access to a highway with a less restrictive access control classification or acceptable access to the general street system becomes available and is permitted.

Chapter 1340 Driveways

Use the design template that will best accommodate the intended use of the driveway, unless a smaller driveway is appropriate and will not adversely affect the traveled way of the state highway. If necessary, use turn simulation software (such as AutoTURN®) to verify the driveway design will adequately accommodate the largest vehicle that will regularly use the driveway.

1340.05 Sidewalks

If a driveway connection has (or will have) adjacent sidewalk, use the applicable Cement Concrete Driveway Entrance Standard Plan F-80.10 and width issued on the access permit. The design and construction of any sidewalk shall be compliant with Chapter 1510 and Section F of the *Standard Plans*, in addition to the latest Americans with Disabilities Act criteria.

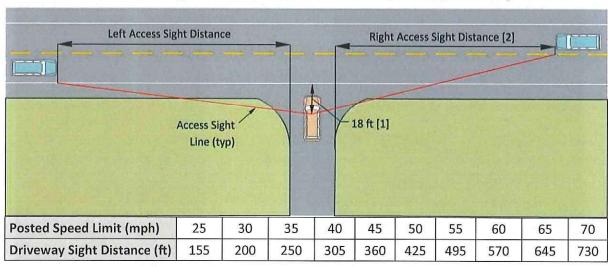
1340.06 Driveway Sight Distance (Eye height – 3.5 ft., Object height – 3.5 ft.)

A driver on the highway needs to see far enough ahead to assess developing situations and take actions appropriate for the conditions, such as when a vehicle is either entering or leaving the highway at a driveway.

In addition, drivers entering the highway from a driveway also need to see enough of the highway, whether to the left or right, so they can take actions appropriate for the conditions to enter the highway in a reasonably safe manner.

Design and locate driveways such that the sight distances meet or exceed the distances shown in Exhibit 1340-3; these distances may require an approaching vehicle to reduce speed or stop to prevent a collision. In addition, provide decision sight distance for through traffic at all utility and special-use driveways on facilities with limited access control (see Chapter 1260).

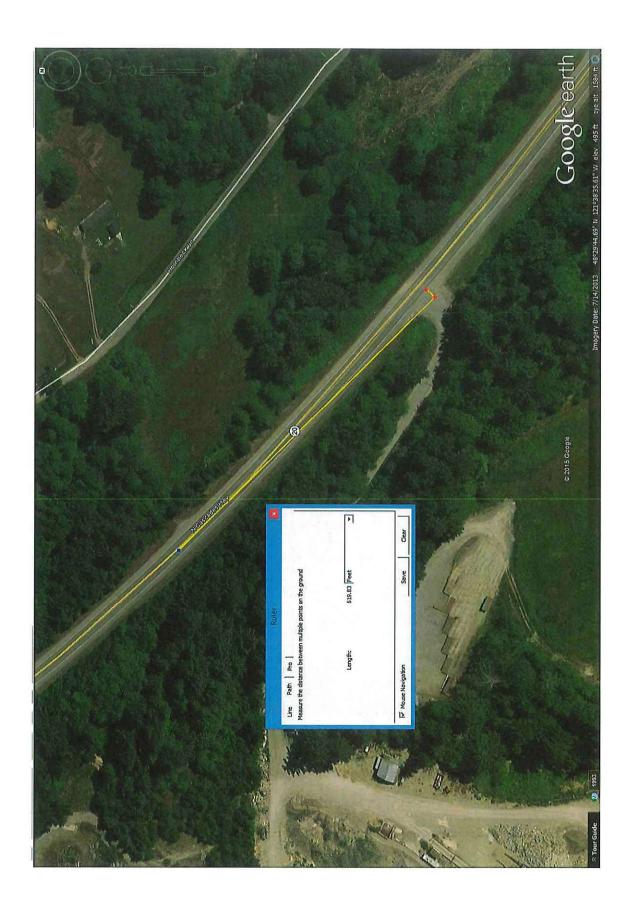
For road approaches with AWDVTE greater than 1,500, use intersection sight distance criteria (see Chapter 1310). Areas along driveway legs and across their included corners should be clear of obstructions that might block or affect a driver's view of potentially conflicting vehicles.



Notes:

- [1] Measured from the edge of through lane. If the desirable 18-foot setback cannot be achieved, obtain as much as practicable, down to a 10-foot minimum.
- [2] Not required for driveways restricted to right in/right out.

Driveway Sight Distance Exhibit 1340-3







			NOILUNI	BELATIONSHIB	At Dri
				VEHICLE 2 TVDE	2 0 0 Passenger Car Pickup, Panel Truck or Vanette under 10,000 lb
# #	## ## ##	— <u>—</u>	Z A E D E	PE J T H S S VEHICLE 1 TYPE	
				DATE MOST SEVERE INJURY TYPE	2018-10-12 11:17 Suspected Minor Injury
			REPORT	NUMBER	E849171 2018-10-
	DIST	FROM	REF	Y POINT MILEPOST	0 95.12
			PRIMARY	CITY TRAFFICWAY	20
				COUNTY	Skagit
				JURISDICTION	State Route

VEHICLE 1 COMPASS DIRECTION FROM East	
VEHICLE 2 ACTION Stopped for Traffic	
VEHICLE 1 ACTION Going Straight Ahead	
FIRST COLLISION TYPE / OBJECT STRUCK From same direction - both going straight - one stopped - rear-end	
LIGHTING CONDITION Daylight	
ROADWAY SURFACE CONDITION Dry	
WEATHER	

WA STATE PLANE SOUTH - Y 2010 - FORWARD	00.040001
WA STATE PLANE SOUTH - X 2010 - FORWARD	6.10000
MV DRIVER CONTRIBUTING FIRST IMPACT LOCATION (City, County) WA STATE PLANE SOUTH - X CIRCUMSTANCE I (UNIT 1) & Misc Trafficways - 2010 forward) 2010 - FORWARD Sychodium Roas, Safe Sheed, Land, Decreasion Mileonet	
MV DRIVER CONTRIBUTING FIRST IMPACT LOCATION (GI CIRCUMSTANCE 1 (UNIT 1) & Misc Traffoways - 2010 Excepting Raps Safe Speed	مرموسية بمورد مورد ما
VEHICLE 2 COMPASS DIRECTION TO Vehicle Stopped	1
VEHICLE 2 COMPASS DIRECTION FROM Vehicle Stopped	
VEHICLE 1 COMPASS DIRECTION TO West	•

		0 ≥ (4)
		*