

WHATCOM COUNTY  
PUBLIC WORKS DEPARTMENT



Jon Hutchings  
Director

James P. Karcher, P. E.  
County Engineer  
322 N. Commercial Street, Ste. 301  
Bellingham, WA 98225-4042  
Phone: (360) 778-6210  
Fax: (360) 778-6211

June 10, 2020

FRA Associate Administrator  
1200 New Jersey Avenue, SE  
Washington, D.C. 20590

**REVISED**  
**Notice of Quiet Zone Establishment**  
**Whatcom County, Washington-**  
**Proposed Quiet Zone at Public Highway/Rail Grade Crossing**  
**Yacht Club Rd., DOT #084796F M.P. 89.37**

Received  
Records Management  
06/22/20 10:31  
State Of WASH.  
UTIL. AND TRANSP.  
COMMISSION

This Notice of Quiet Zone Establishment includes all pertinent information required by 49 Code of Federal Regulations (CFR) 222.43(d) for the public highway/rail grade crossing at Yacht Club Road (DOT #084796F), within Whatcom County, Washington.

The regulatory provision used as the basis for establishing this quiet zone is 49 CFR 222.39(b). The additional safety measures implemented at Yacht Club Road included both supplemental and alternative safety measures. A Public Authority Application to the Federal Railroad Administration (FRA) was originally submitted June 1, 2016 and resubmitted May 29, 2018 identifying a revision to the installed safety measures. The FRA approved the proposed revision to the safety improvements June 7, 2019 and the FRA notification of approval letter is attached as part of this document.

**Revision: Due to the upgrade of curbing from mountable to non-mountable the turning movement at this crossing has been restricted for larger vehicles. In order to ease this turning movement at the crossing, the westerly median was reduced in length by 5 feet as detailed in attached plan sheet.**

The original Notice of Quiet Zone Establishment was submitted on August 4, 2017.

The monitoring of compliance with all federal requirements set forth in 49 CFR 222 will be the responsibility of James P. Karcher, P.E., Whatcom County Road Engineer and Whatcom County staff. All comments concerning this crossing can be directed to Mr. Karcher at (360)778-6271 or by e-mail at jkarcher@co.whatcom.wa.us.

With signature of this document I, James P. Karcher, certify that all information contained within is accurate and complete to the best of my knowledge and belief.

Respectfully,

A handwritten signature in blue ink that reads "James P. Karcher".

James P. Karcher, P.E.  
County Engineer

---

Revised NOE for Quiet Zone  
Whatcom County, WA  
Yacht Club Rd, DOT #084796F; MP 89.37  
June 10, 2020

Encl: (1) FRA's Notification of Approval  
(2) U.S. DOT Crossing Inventory Form (with safety supplements)  
(3) 7-Day Traffic Volume Counts  
(4) Revised Plan Sheet

Cc: Stephen Semenick  
Manger Public Projects for WA, ID & BC  
BNSF Railway  
2454 Occidental Avenue So Suite 2D  
Seattle, WA 98134

Elizabeth F Klute (LIS), CEM  
Northwest Regional Emergency Manager (OR/WA/ID/MT/ND)  
Emergency Management & Corporate Security Department  
National Railroad Passenger Corporation - Amtrak  
187 S Holgate St.  
Seattle, WA 98134

Betty Young  
Rail Safety Program Advisor  
Washington Utilities and Transportation Commission  
1300 S. Evergreen Park Dr. SW  
PO Box 47250  
Olympia, WA 98504-7250

Jeffery Stewart  
Region 8 Grade Crossing Inspector  
U.S. Department of Transportation  
Federal Railroad Administration  
500 Broadway, Suite 240  
Vancouver, WA 98660

Cc (Via Email):  
Roland Middleton, Whatcom County  
[RMiddlet@co.whatcom.wa.us](mailto:RMiddlet@co.whatcom.wa.us)



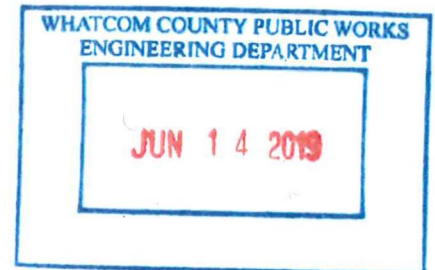
U.S. Department  
of Transportation

**Federal Railroad  
Administration**

1200 New Jersey Avenue, SE  
Washington, DC 20590

**JUN 07 2019**

Joseph P. Rutan, P.E.  
County Engineer/Assistant Director  
Whatcom County Public Works Department  
322 North Commercial Street, Suite 301  
Bellingham, WA 98225-4042



**Re: THR-000000440001 (U.S. DOT National Highway-Rail Crossing Inventory Number 084796F)**

Dear Mr. Rutan:

The Federal Railroad Administration (FRA) reviewed the amended public authority application you submitted on behalf of Whatcom County, Washington (County), under Title 49 Code of Federal Regulations (CFR) Section 222.39(b).

The County is seeking FRA's approval of the suggested effectiveness rate for the proposed alternative safety measure (ASM) at the Yacht Club Road crossing. The County asserts that the proposed ASM at the Yacht Club Road crossing will consist of a 100-foot non-traversable curb with channelization devices on the east side of the crossing.<sup>1</sup> The west side of the crossing will be equipped with a 30-foot non-traversable curb with channelization devices due to an intersecting street. The County suggested a 50 percent reduction in risk. However, FRA has determined that an effectiveness rate of 0.60 is more appropriate due to the lengths of the curbs.

After recalculating the risk index using the revised effectiveness rate, FRA approves the County's amended application. FRA has determined that implementation of the proposed ASM, as described in the County's amended application, will result in a Quiet Zone Risk Index of 6,943. This index is below the Risk Index with Horns (the risk that would be present if the horns were still sounding) of 10,406 and the current Nationwide Significant Risk Threshold of 13,811.

The County may submit a revised Notice of Quiet Zone Establishment consistent with 49 CFR § 222.43, *What notices and other information are required to create or continue a quiet zone?* after implementation of the proposed ASM, as described in the amended application, and compliance with all applicable quiet zone requirements in 49 CFR §§ 222.25, *How does this rule affect private highway-rail grade crossings?*; 222.27, *How does this rule affect pedestrian grade crossings?*; and 222.35, *What are the minimum requirements for quiet zones?* Please note this

<sup>1</sup> The County stated in the amended application that there are three gaps measuring one foot or less in the non-traversable curb to allow for drainage.

---

letter supersedes FRA's December 19, 2016, decision letter regarding the County's original public authority application for this quiet zone.

If you have any questions or need additional information, please contact Mr. Larry Woolverton, Acting Staff Director, Highway-Rail Crossing and Trespasser Programs Division, at (202) 493-6212 or [larry.woolverton@dot.gov](mailto:larry.woolverton@dot.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'Karl Alexy', with a stylized flourish at the end.

Karl Alexy  
Acting Associate Administrator for Railroad Safety

cc:

Kathy Hunter, Washington Utilities and Transportation Commission  
Stephen M. Pugsley, Amtrak  
Stephen Semenick, BNSF Railway

Addresses:

Kathy Hunter  
Deputy Assistant Director, Transportation Safety  
Washington Utilities and Transportation Commission  
1300 S. Evergreen Park Drive, SW  
Olympia, WA 98504-7250

Stephen M. Pugsley, Senior Manager- Emergency Management  
Emergency Management and Corporate Security  
Amtrak  
1 South Station, 2nd Floor  
Boston, MA 02110

Stephen Semenick  
Manager Public Projects  
BNSF Railway  
2454 Occidental Avenue South, Suite 2D  
Seattle, WA 98134

# U. S. DOT CROSSING INVENTORY FORM

**DEPARTMENT OF TRANSPORTATION**  
FEDERAL RAILROAD ADMINISTRATION

OMB No. 2130-1

Instructions for the initial reporting of the following types of new or previously unreported crossings: For public highway-rail grade crossings, complete the entire inventory Form. For private highway-rail grade crossings, complete the Header, Parts I and II, and the Submission Information section. For public pathway grade crossings (including pedestrian station grade crossings), complete the Header, Parts I and II, and the Submission Information section. For Private pathway grade crossings, complete the Header, Parts I and II, and the Submission Information section. For grade-separated highway-rail or pathway crossings (including pedestrian station crossings), complete the Header, Part I and II, and the Submission Information section. For changes to existing data, complete the Header, Part I Items 1-3, and the Submission Information section, in addition to updated data fields. Note: For private crossings only, Part I Item 20 and Part III Item 2.K. are required unless otherwise noted. An asterisk \* denotes an optional field.

<b>A. Revision Date</b> (MM/DD/YYYY) 04 / 14 / 2020	<b>B. Reporting Agency</b> <input checked="" type="checkbox"/> Railroad <input type="checkbox"/> Transit <input type="checkbox"/> State <input type="checkbox"/> Other	<b>C. Reason for Update (Select only one)</b> <input checked="" type="checkbox"/> Change in Data <input type="checkbox"/> New Crossing <input type="checkbox"/> Re-Open <input type="checkbox"/> Date Change Only <input type="checkbox"/> Closed <input type="checkbox"/> No Train Traffic <input type="checkbox"/> Quiet Zone Update <input type="checkbox"/> Admin. Correction <input type="checkbox"/> Change in Primary Operating RR	<b>D. DOT Crossing Inventory Number</b>  084796F
---	--	---	--

## Part I - Location and Description Information

1. Primary Operating Railroad BNSF Railway Company (BNSF)		2. State WASHINGTON		3. County WHATCOM	
4. City / Municipality <input type="checkbox"/> In <input checked="" type="checkbox"/> Near BELLINGHAM		5. Street/Road Name & Block Number YACHT CLUB RD (Street/Road Name)   * (Block Number)		6. Highway Type & No. CO40670	
7. Do Other Railroads Operate a Separate Track at Crossing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Specify RR			8. Do Other Railroads Operate Over Your Track at Crossing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Specify RR ATK		
9. Railroad Division or Region <input type="checkbox"/> None NORTHWEST		10. Railroad Subdivision or District <input type="checkbox"/> None BELLINGHAM		11. Branch or Line Name <input type="checkbox"/> None PA J-US CAN BDR	
12. RR Milepost 0089.390 (prefix)   (nnnn.nnn)   (suffix)		13. Line Segment 50		14. Nearest RR Timetable Station BELLINGHAM	
15. Parent RR (if applicable) <input checked="" type="checkbox"/> N/A		16. Crossing Owner (if applicable) <input type="checkbox"/> N/A BNSF		17. Crossing Type <input checked="" type="checkbox"/> Public <input type="checkbox"/> Private	
18. Crossing Purpose <input checked="" type="checkbox"/> Highway <input type="checkbox"/> Pathway, Ped. <input type="checkbox"/> Station, Ped.		19. Crossing Position <input checked="" type="checkbox"/> At Grade <input type="checkbox"/> RR Under <input type="checkbox"/> RR Over		20. Public Access (if Private Crossing) <input type="checkbox"/> Yes <input type="checkbox"/> No	
21. Type of Train <input checked="" type="checkbox"/> Freight <input checked="" type="checkbox"/> Intercity Passenger <input type="checkbox"/> Commuter		22. Average Passenger Train Count Per Day <input type="checkbox"/> Less Than One Per Day <input checked="" type="checkbox"/> Number Per Day		23. Type of Land Use <input type="checkbox"/> Open Space <input type="checkbox"/> Farm <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Institutional <input type="checkbox"/> Recreational <input type="checkbox"/> RR Yard	
24. Is there an Adjacent Crossing with a Separate Number? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Provide Crossing Number			25. Quiet Zone (FRA provided) <input type="checkbox"/> No <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> Partial <input type="checkbox"/> Chicago Excused Date Established		
26. HSR Corridor ID <input checked="" type="checkbox"/> N/A		27. Latitude in decimal degrees (WGS84 std: nn.nnnnnnn) 48.6755733		28. Longitude in decimal degrees (WGS84 std: -nnn.nnnnnnn) -122.489210	
29. Lat/Long Source <input checked="" type="checkbox"/> Actual <input type="checkbox"/> Estimated		30.A. Railroad Use *		31.A. State Use *	
30.B. Railroad Use *		31.B. State Use *		30.C. Railroad Use *	
30.D. Railroad Use *		31.C. State Use *		30.D. Railroad Use *	
31.D. State Use *		32.A. Narrative (Railroad Use) * (1.27   1.28   1.29) Value Provided by Railroad, Not Yes		32.B. Narrative (State Use) *	
33. Emergency Notification Telephone No. (posted) 800-832-5452		34. Railroad Contact (Telephone No.) 817-352-1549		35. State Contact (Telephone No.) 360-664-1262	

1. Estimated Number of Daily Train Movements				
1.A. Total Day Thru Trains (6 AM to 6 PM) 8	1.B. Total Night Thru Trains (6 PM to 6 AM) 8	1.C. Total Switching Trains 0	1.D. Total Transit Trains 0	1.E. Check if Less Than One Movement Per Day How many trains per week? <input type="checkbox"/>
2. Year of Train Count Data (YYYY) 2019		3. Speed of Train at Crossing 3.A. Maximum Timetable Speed (mph) 50 3.B. Typical Speed Range Over Crossing (mph) From 1 to 50		
4. Type and Count of Tracks Main 1    Siding 0    Yard 0    Transit 0    Industry 0				
5. Train Detection (Main Track only) <input checked="" type="checkbox"/> Constant Warning Time <input type="checkbox"/> Motion Detection <input type="checkbox"/> AFO <input type="checkbox"/> PTC <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> None				
6. Is Track Signaled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		7.A. Event Recorder <input type="checkbox"/> Yes <input type="checkbox"/> No		7.B. Remote Health Monitoring <input type="checkbox"/> Yes <input type="checkbox"/> No

# U. S. DOT CROSSING INVENTORY FORM

A. Revision Date (MM/DD/YYYY)  
04/14/2020

PAGE 2

D. Crossing Inventory Number (7 char.)  
084796F

## Part III: Highway or Pathway Traffic Control Device Information

<p>1. Are there Signs or Signals? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>2. Types of Passive Traffic Control Devices associated with the Crossing</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; border-right: 1px solid black;"> <p>2.A. Crossbuck Assemblies (count) 2</p> </td> <td style="width: 20%; border-right: 1px solid black;"> <p>2.B. STOP Signs (R1-1) (count) 0</p> </td> <td style="width: 20%; border-right: 1px solid black;"> <p>2.C. YIELD Signs (R1-2) (count)</p> </td> <td colspan="3"> <p>2.D. Advance Warning Signs (Check all that apply; include count)</p> <p><input type="checkbox"/> W10-1 <input checked="" type="checkbox"/> W10-3 2 <input type="checkbox"/> W10-11</p> <p><input type="checkbox"/> W10-2 <input type="checkbox"/> W10-4 <input type="checkbox"/> W10-12</p> </td> </tr> </table>					<p>2.A. Crossbuck Assemblies (count) 2</p>	<p>2.B. STOP Signs (R1-1) (count) 0</p>	<p>2.C. YIELD Signs (R1-2) (count)</p>	<p>2.D. Advance Warning Signs (Check all that apply; include count)</p> <p><input type="checkbox"/> W10-1 <input checked="" type="checkbox"/> W10-3 2 <input type="checkbox"/> W10-11</p> <p><input type="checkbox"/> W10-2 <input type="checkbox"/> W10-4 <input type="checkbox"/> W10-12</p>		
<p>2.A. Crossbuck Assemblies (count) 2</p>	<p>2.B. STOP Signs (R1-1) (count) 0</p>	<p>2.C. YIELD Signs (R1-2) (count)</p>	<p>2.D. Advance Warning Signs (Check all that apply; include count)</p> <p><input type="checkbox"/> W10-1 <input checked="" type="checkbox"/> W10-3 2 <input type="checkbox"/> W10-11</p> <p><input type="checkbox"/> W10-2 <input type="checkbox"/> W10-4 <input type="checkbox"/> W10-12</p>								
<p>2.E. Low Ground Clearance Sign (W10-5) <input type="checkbox"/> Yes (count) <input type="checkbox"/> No</p>	<p>2.F. Pavement Markings <input checked="" type="checkbox"/> Stop Lines <input type="checkbox"/> Dynamic Envelope <input type="checkbox"/> RR Xing Symbols <input type="checkbox"/> None</p>	<p>2.G. Channelization Devices/Medians <input checked="" type="checkbox"/> All Approaches <input type="checkbox"/> Median <input type="checkbox"/> One Approach <input type="checkbox"/> None</p>	<p>2.H. EXEMPT Sign (R15-3) <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>2.I. ENS Sign (I-13) Displayed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>							
<p>2.J. Other MUTCD Signs <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Specify Type W10-9 Count 3</p> <p>Specify Type _____ Count _____</p> <p>Specify Type _____ Count _____</p>			<p>2.K. Private Crossing Signs (if private) <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>2.L. LED Enhanced Signs (List types)</p>							

<p>3. Types of Train Activated Warning Devices at the Grade Crossing (specify count of each device for all that apply)</p>				
<p>3.A. Gate Arms (count) Roadway 2 Pedestrian _____</p>	<p>3.B. Gate Configuration <input checked="" type="checkbox"/> 2 Quad <input type="checkbox"/> Full (Barrier) Resistance <input type="checkbox"/> 3 Quad <input type="checkbox"/> Median Gates <input type="checkbox"/> 4 Quad</p>	<p>3.C. Cantilevered (or Bridged) Flashing Light Structures (count) Over Traffic Lane 0 <input type="checkbox"/> Incandescent Not Over Traffic Lane 0 <input type="checkbox"/> LED</p>	<p>3.D. Mast Mounted Flashing Lights (count of masts) 2 <input type="checkbox"/> Incandescent <input type="checkbox"/> LED <input type="checkbox"/> Back Lights Included <input type="checkbox"/> Side Lights Included</p>	<p>3.E. Total Count Flashing Lights 6</p>
<p>3.F. Installation Date of Current Active Warning Devices: (MM/YYYY) _____/_____/_____ <input type="checkbox"/> Not Required</p>		<p>3.G. Wayside Horn <input type="checkbox"/> Yes Installed on (MM/YYYY) ____/____/_____ <input type="checkbox"/> No</p>		<p>3.H. Highway Traffic Signals Controlling Crossing <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3.I. Non-Train Active Warning <input type="checkbox"/> Flagger/Flagman <input type="checkbox"/> Manually Operated Signals <input type="checkbox"/> Watchman <input type="checkbox"/> Floodlighting <input type="checkbox"/> None</p>			<p>3.K. Other Flashing Lights or Warning Devices Count 0 Specify type _____</p>	

<p>4.A. Does nearby Hwy Intersection have Traffic Signals? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>4.B. Hwy Traffic Signal Interconnection <input type="checkbox"/> Not Interconnected <input type="checkbox"/> For Traffic Signals <input type="checkbox"/> For Warning Signs</p>	<p>4.C. Hwy Traffic Signal Preemption <input type="checkbox"/> Simultaneous <input type="checkbox"/> Advance</p>	<p>5. Highway Traffic Pre-Signals <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Storage Distance * _____ Stop Line Distance * _____</p>	<p>6. Highway Monitoring Devices (Check all that apply) <input type="checkbox"/> Yes - Photo/Video Recording <input type="checkbox"/> Yes - Vehicle Presence Detection <input type="checkbox"/> None</p>	
---	--	--	---	--	--

<p>1. Traffic Lanes Crossing Railroad Number of Lanes 2 <input type="checkbox"/> One-way Traffic <input checked="" type="checkbox"/> Two-way Traffic <input type="checkbox"/> Divided Traffic</p>	<p>2. Is Roadway/Pathway Paved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>3. Does Track Run Down a Street? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>4. Is Crossing Illuminated? (Street lights within approx. 50 feet from nearest rail) <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>5. Crossing Surface (on Main Track, multiple types allowed) Installation Date * (MM/YYYY) ____/____/_____ <input type="checkbox"/> 1 Timber <input type="checkbox"/> 2 Asphalt <input type="checkbox"/> 3 Asphalt and Timber <input checked="" type="checkbox"/> 4 Concrete <input type="checkbox"/> 5 Concrete and Rubber <input type="checkbox"/> 6 Rubber <input type="checkbox"/> 7 Metal <input type="checkbox"/> 8 Unconsolidated <input type="checkbox"/> 9 Composite <input type="checkbox"/> 10 Other (specify) _____</p>			
<p>6. Intersecting Roadway within 500 feet? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Approximate Distance (feet) 75</p>		<p>7. Smallest Crossing Angle <input type="checkbox"/> 0° - 29° <input type="checkbox"/> 30° - 59° <input checked="" type="checkbox"/> 60° - 90°</p>	

## Part V: Public Highway Information

<p>1. Highway System <input type="checkbox"/> (01) Interstate Highway System <input type="checkbox"/> (02) Other Nat Hwy System (NHS) <input type="checkbox"/> (03) Federal AID, Not NHS <input checked="" type="checkbox"/> (08) Non-Federal Aid</p>	<p>2. Functional Classification of Road at Crossing <input checked="" type="checkbox"/> (0) Rural <input type="checkbox"/> (1) Urban <input type="checkbox"/> (1) Interstate <input type="checkbox"/> (5) Major Collector <input type="checkbox"/> (2) Other Freeways and Expressways <input type="checkbox"/> (3) Other Principal Arterial <input type="checkbox"/> (6) Minor Collector <input type="checkbox"/> (4) Minor Arterial <input checked="" type="checkbox"/> (7) Local</p>	<p>3. Is Crossing on State Highway System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>4. Highway Speed _____ MF <input type="checkbox"/> Posted <input type="checkbox"/> Sta</p>
<p>7. Annual Average Daily Traffic (AADT) Year 2013 AADT 222</p>		<p>8. Estimated Percent Trucks 01 %</p>	
<p>9. Regularly Used by School Buses? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Average Number per Day _____</p>		<p>10. Emergency Services Rec <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	

**Submission Information - This information is used for administrative purposes and is not available on the public website.**

Submitted by \_\_\_\_\_ Organization \_\_\_\_\_ Phone \_\_\_\_\_ Date \_\_\_\_\_

Public reporting burden for this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing sources, gathering and maintaining the data needed and completing and reviewing the collection of information. According to the Paperwork Reduction Act of 1995, a agency may not conduct or sponsor, and a person is not required to, nor shall a person be subject to a penalty for failure to comply with, a collection of information unl displays a currently valid OMB control number. The valid OMB control number for information collection is 2130-0017. Send comments regarding this burden estimate other aspect of this collection, including for reducing this burden to: Information Collection Officer, Federal Railroad Administration, 1200 New Jersey Ave. SE, MS-25 Washington, DC 20590.

Road Name: : Yacht Club Rd  
 Cross Road: : 250 ft W of SR 11  
 Road #/MP : 40660 0004

Site: 00000000000

Seven Day Volume

Interval Start	Sat 5/16/2020		Sun 5/17/2020		Mon 5/18/2020		Tue 5/19/2020		Wed 5/20/2020		Thu 5/21/2020		Fri 5/22/2020		Mon - Fri Average		7 Day Average		
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	
12:00 AM	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.3	0.0
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.2	0.0	0.1	0.0	
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	0.2	0.0	0.1	
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	
4:00 AM	0	0	1	1	1	1	1	1	1	1	1	0	0	1	0.8	0.8	0.7	0.7	
5:00 AM	0	0	0	0	0	0	2	1	1	1	1	1	1	0	1.0	0.6	0.7	0.4	
6:00 AM	0	0	0	0	1	0	2	1	3	0	3	0	3	2	2.4	0.6	1.7	0.4	
7:00 AM	0	0	0	0	5	1	1	0	2	1	5	0	4	3	3.4	1.0	2.4	0.7	
8:00 AM	4	0	2	0	5	2	8	3	6	3	5	3	5	5	5.8	3.2	5.0	2.3	
9:00 AM	5	2	3	3	8	2	10	5	7	9	7	8	7	5	7.8	5.0	6.7	5.0	
10:00 AM	4	4	6	4	5	8	5	7	5	5	12	8	12	8	7.8	7.2	7.0	6.3	
11:00 AM	9	8	8	3	5	6	9	7	4	8	6	10	6	4	6.0	7.0	6.4	6.6	
12:00 PM	7	6	8	5	10	8	2	4	12	8	9	9	9	8	8.4	7.4	8.1	6.9	
1:00 PM	6	7	12	9	8	5	9	8	9	6	7	8	10	9	8.6	7.2	8.7	7.4	
2:00 PM	11	12	7	6	6	6	11	5	18	7	15	10	9	7	11.8	7.0	11.0	7.6	
3:00 PM	7	5	8	8	14	7	6	10	7	11	11	10	5	5	8.6	8.6	8.3	8.0	
4:00 PM	1	1	6	7	4	11	8	5	6	12	6	15	3	10	5.4	10.6	4.9	8.7	
5:00 PM	2	6	4	4	1	4	0	6	5	5	9	9	10	9	5.0	6.6	4.4	6.1	
6:00 PM	1	4	1	4	2	9	1	9	5	6	4	8	6	7	3.6	7.8	2.9	6.7	
7:00 PM	1	0	7	8	8	4	8	6	1	4	4	3	2	5	4.6	4.6	4.4	4.4	
8:00 PM	3	2	1	1	2	1	4	4	2	3	2	3	2	4	2.4	3.0	2.3	2.6	
9:00 PM	0	1	2	1	1	2	2	2	0	1	1	2	6	3	2.0	2.0	1.7	1.7	
10:00 PM	0	0	2	2	1	0	4	1	0	0	0	1	2	2	1.4	0.8	1.3	0.9	
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0.4	0.0	0.3	0.0	
Totals	63	58	76	66	87	77	93	85	94	91	108	108	105	100	97.4	92.2	89.4	83.6	
Combined	121		142		164		178		185		216		205		189.6		173.0		
Split (%)	52.1	47.9	53.5	46.5	53.0	47.0	52.2	47.8	50.8	49.2	50.0	50.0	51.2	48.8	51.4	48.6	51.7	48.3	

Peak Hours

12:00 AM - 12:00 PM	11:00 AM	11:00 AM	9:30 AM	10:30 AM	8:30 AM	10:00 AM	8:30 AM	9:15 AM	8:15 AM	8:45 AM	9:30 AM	9:45 AM	10:00 AM	9:45 AM	9:30 AM	9:15 AM	9:30 AM	11:00 AM
Volume	9	8	8	5	8	8	10	7	8	10	12	12	12	8	8.2	7.6	7.7	6.6
Factor	0.56	0.67	0.40	0.42	0.67	0.67	0.50	0.58	0.50	0.63	0.50	0.50	0.75	0.67	0.93	0.59	0.79	0.72
12:00 PM - 12:00 AM	1:45 PM	1:15 PM	1:30 PM	1:30 PM	2:45 PM	4:00 PM	2:30 PM	6:15 PM	1:45 PM	3:30 PM	2:15 PM	4:15 PM	1:15 PM	12:45 PM	1:45 PM	4:00 PM	1:45 PM	12:45 PM
Volume	12	12	14	12	15	11	12	12	19	13	16	16	13	14	11.8	10.6	11.7	8.9
Factor	0.60	0.50	0.70	0.60	0.63	0.69	0.43	0.75	0.79	0.81	0.80	0.67	0.81	0.70	0.87	0.83	0.93	0.91



Road Name: : Yacht Club Rd  
 Cross Road: : 250 ft W of SR 11  
 Road #/MP : 40660 0004

Site: 000000000000

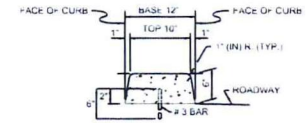
Seven Day Volume

Interval Start	Sat 5/23/2020		Sun 5/24/2020		Mon 5/25/2020		Tue 5/26/2020		Wed 5/27/2020		Thu 5/28/2020		Fri 5/29/2020		Mon - Fri Average		7 Day Average	
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12:00 AM	0	1	0	0	2	1	-	-	-	-	-	-	-	-	2.0	1.0	0.7	0.7
1:00 AM	0	0	0	0	0	1	-	-	-	-	-	-	-	-	0.0	1.0	0.0	0.3
2:00 AM	0	0	0	0	1	0	-	-	-	-	-	-	-	-	1.0	0.0	0.3	0.0
3:00 AM	0	0	0	0	1	2	-	-	-	-	-	-	-	-	1.0	2.0	0.3	0.7
4:00 AM	0	0	1	1	0	0	-	-	-	-	-	-	-	-	0.0	0.0	0.3	0.3
5:00 AM	1	0	0	0	2	1	-	-	-	-	-	-	-	-	2.0	1.0	1.0	0.3
6:00 AM	0	0	0	0	3	1	-	-	-	-	-	-	-	-	3.0	1.0	1.0	0.3
7:00 AM	5	1	1	1	0	1	-	-	-	-	-	-	-	-	0.0	1.0	2.0	1.0
8:00 AM	2	1	2	0	4	1	-	-	-	-	-	-	-	-	4.0	1.0	2.7	0.7
9:00 AM	4	1	2	2	3	1	-	-	-	-	-	-	-	-	3.0	1.0	3.0	1.7
10:00 AM	5	3	5	1	5	1	-	-	-	-	-	-	-	-	5.0	1.0	5.0	1.7
11:00 AM	5	4	6	8	6	6	-	-	-	-	-	-	-	-	6.0	6.0	5.7	6.0
12:00 PM	6	7	5	3	6	8	-	-	-	-	-	-	-	-	6.0	8.0	5.7	6.0
1:00 PM	6	6	7	7	4	8	-	-	-	-	-	-	-	-	4.0	8.0	5.7	7.0
2:00 PM	15	13	6	9	9	4	-	-	-	-	-	-	-	-	9.0	4.0	10.0	8.7
3:00 PM	15	9	11	6	9	6	-	-	-	-	-	-	-	-	9.0	6.0	11.7	7.0
4:00 PM	13	10	11	9	4	5	-	-	-	-	-	-	-	-	4.0	5.0	9.3	8.0
5:00 PM	9	11	7	9	2	6	-	-	-	-	-	-	-	-	2.0	6.0	6.0	8.7
6:00 PM	4	6	6	8	5	6	-	-	-	-	-	-	-	-	5.0	6.0	5.0	6.7
7:00 PM	2	3	9	12	3	0	-	-	-	-	-	-	-	-	3.0	0.0	4.7	5.0
8:00 PM	3	2	7	5	0	4	-	-	-	-	-	-	-	-	0.0	4.0	3.3	3.7
9:00 PM	2	2	4	0	3	0	-	-	-	-	-	-	-	-	3.0	0.0	3.0	0.7
10:00 PM	0	2	0	1	1	1	-	-	-	-	-	-	-	-	1.0	1.0	0.3	1.3
11:00 PM	0	2	0	2	0	0	-	-	-	-	-	-	-	-	0.0	0.0	0.0	1.3
Totals	97	84	90	85	73	64	0	0	0	0	0	0	0	0	73.0	64.0	86.7	77.7
Combined	181		175		137		0	0	0	0	0	0	0	0	137.0		164.3	
Split (%)	53.6	46.4	51.4	48.6	53.3	46.7	-	-	-	-	-	-	-	-	53.3	46.7	52.7	47.3

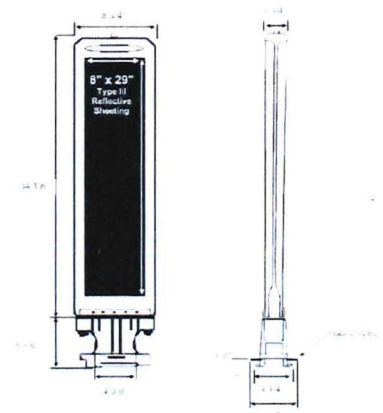
Peak Hours

12:00 AM - 12:00 PM	10:15 AM	10:45 AM	10:30 AM	11:00 AM	10:15 AM	11:00 AM	-	-	-	-	-	-	-	-	10:15 AM	11:00 AM	10:15 AM	11:00 AM
Volume	6	6	7	8	6	6	-	-	-	-	-	-	-	-	6.0	6.0	5.7	6.0
Factor	0.75	0.75	0.58	0.67	0.75	0.50	-	-	-	-	-	-	-	-	0.75	0.50	0.85	0.75
12:00 PM - 12:00 AM	3:30 PM	2:00 PM	3:15 PM	4:45 PM	2:00 PM	12:15 PM	-	-	-	-	-	-	-	-	2:00 PM	12:15 PM	3:30 PM	4:45 PM
Volume	22	13	13	12	9	12	-	-	-	-	-	-	-	-	9.0	12.0	13.3	10.7
Factor	0.61	0.65	0.65	0.60	0.56	0.60	-	-	-	-	-	-	-	-	0.56	0.60	0.71	0.80

SEC. 24, T. 37N., R. 02E., W.M.  
WHATCOM COUNTY

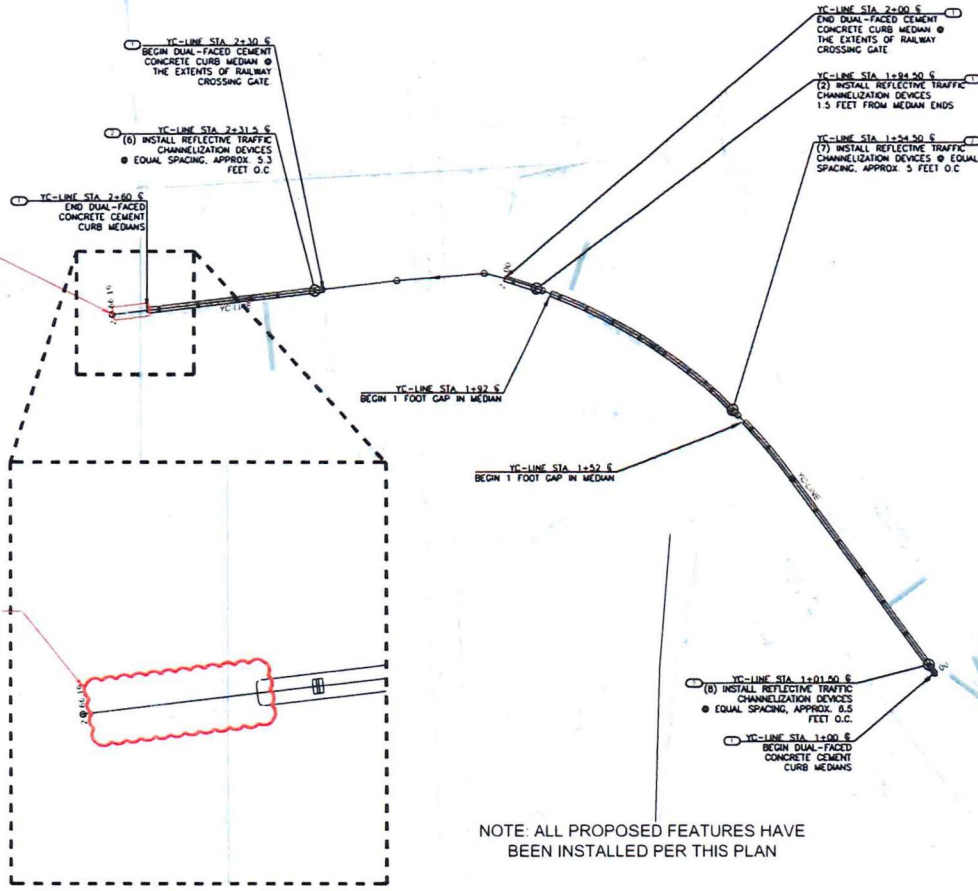


1 DUAL-FACED CEMENT  
CONCRETE CURB MEDIAN  
NOT TO SCALE



2 REFLECTIVE TRAFFIC  
CHANNELIZATION DEVICE DETAIL  
NOT TO SCALE

1 MEDIAN NOTES  
1. INSTALL REFLECTIVE TRAFFIC CHANNELIZATION DEVICE PER THE MANUFACTURER'S SPECIFICATIONS. (SEE REFLECTIVE LANE SEPARATOR DETAIL THIS SHEET)



NOTE: ALL PROPOSED FEATURES HAVE BEEN INSTALLED PER THIS PLAN

DETAIL OF REVISED SECTION OF  
CONCRETE CEMENT CURB MEDIANS  
NOT TO SCALE



NO.	DATE	BY	REVISIONS/SCALE	REVISION
1				
2				
3				
4				

DATE	DESIGN	DRAWN	CHECK
	DN	DN	JPK
	DN	DN	JPK
	DN	DN	JPK
	DN	DN	JPK

DATE	MAY 2017
PLAN NO.	CRP 216000
ISSUE NO.	0001
DATE PLOTTED	ASSUMED

PURVEYOR/DESIGNED BY	JON HILCHENCO
CHECKED/ENGINEER	JOSEPH GUTAN, P.E.
PROJECT ENGINEER	SCOTT SWAN

**WHATCOM COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
100 S. WASHINGTON ST., SUITE 200, WASHINGTON, PA 15382

PROJECT	YACHT CLUB RAILWAY CROSSING COUNTY ROAD-RAILROAD GRADE CROSSING IMPROVEMENT
PROJECT NO.	01
SHEET NO.	01