



SKAGIT COUNTY PUBLIC WORKS DEPARTMENT

1800 Continental Place, Mount Vernon, WA 98273-5625
(360) 416-1400 FAX (360) 416-1405

TO: Kathy Hunter
Washington Utilities and Transportation Commission – Rail Safety Manager
1300 S. Evergreen Park Dr. SW
Olympia, WA 98504-7250

FROM : Forrest Jones, Transportation Programs Section Manager

DATE: August 15, 2017

RE: Petition to the Washington Utilities and Transportation Commission to construct
Quiet Zone Supplemental Safety Measures at the U.S.D.O.T. Crossings:

- #084787G at Colony Road, Skagit County
- #084789V at (South) Legg Road, Skagit County
- #084791W at (North) Legg Road, Skagit County

COPY(S)	DATE	DESCRIPTION
Pages 1 - 15	8/14/2017	UTC Petition to install median barrairs
Pages 16 -17	8/14/2017	Skagit County Resolution for County Road Project (Blanchard Quiet Zone)
Pages 18 - 21	8/14/2017	Preliminary plan for non-traversable median barrier

Please find attached for your review and approval the above listed documents.

If you have any additional questions or concerns please do not hesitate to contact me directly at
(360) 416-1422.

Sincerely,

Forrest Jones
Skagit County Public Works


Cc:
Paul A. Randall-Grutter, P.E., County Engineer
Keith Elefson, P.E., Engineering Division Manager

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

	)	DOCKET NO. TR-
)	
Skagit County	)	PETITION FOR INSTALLATION OF
_____	)	MEDIAN BARRIERS AT A
Petitioner,	)	HIGHWAY-RAIL GRADE
	)	CROSSING
vs.)	
Burlington Northern Santa Fe Railway)	
_____)	
Respondent	)	USDOT CROSSING NO.: 084787G
)	
.....)	

The Petitioner asks the Washington Utilities and Transportation Commission to approve installation of median barriers at a highway-rail grade crossing.

Section 1 – Petitioner’s Information

<u>Skagit County</u> Petitioner  Signature
<u>1800 Continental Place</u> Street Address
<u>Mount Vernon, WA 98273</u> City, State and Zip Code
<u>Same</u> Mailing Address, if different than the street address
<u>Forrest Jones</u> Contact Person Name
<u>360-416-1422 forrestj@co.skagit.wa.us</u> Contact Phone Number and Email Address

Section 2 – Respondent's Information

Burlington Northern Santa Fe Railway
Respondent

2454 Occidental Avenue South, Suite 2D
Street Address

Seattle, WA 98134
City, State and Zip Code

Mailing Address, if different than the street address

Stephen Semenick, Manager of Public Projects
Contact Person Name

206-625-6413, Stephen.Semenick@BNSF.com
Contact Phone Number and Email Address

Section 3 – Crossing Location

1. Name of highway/roadway Colony Road

2. Name of railroad Burlington Northern Santa Fe Railway

3. USDOT Crossing No. 084787G

4. Located in the NE 1/4 of the NW 1/4 of Sec. 27, Twp. 36N Range 3E W.M.

5. GPS location, if known Lat. 48.5844109 / Long. -122.4120508

6. Railroad mile post (nearest tenth) 80.925

7. City Burlington County Skagit

Section 4 – Current Crossing Traffic

1. Type of public road at the crossing	<input type="checkbox"/> State	<input checked="" type="checkbox"/> County	<input type="checkbox"/> City
	<input type="checkbox"/> Port	<input type="checkbox"/> State Park	<input type="checkbox"/> Other _____
2. Average daily vehicle traffic over the tracks	<u>601</u>	Vehicle speed limit	<u>40-MPH</u>
3. Number of lanes	<u>2</u>		
4. Trucks (commercial vehicles) are what percent of average daily traffic	<u>9.7</u>		
5. Number of school buses over the crossing each day	<u>2</u>		
6. Name of railroad(s) operating at crossing	_____		
	<u>Burlington Northern Santa Fe Railway</u>		
	<u>AmTrac</u>		
7. Type of railroad at crossing	<input checked="" type="checkbox"/> Common Carrier	<input type="checkbox"/> Logging	<input type="checkbox"/> Industrial
	<input checked="" type="checkbox"/> Passenger	<input type="checkbox"/> Excursion	
8. Type of tracks at crossing	<input checked="" type="checkbox"/> Main Line	<input type="checkbox"/> Siding or Spur	
9. Number of tracks at crossing	<u>1</u>		
10. Average daily train traffic, freight	<u>20</u>		
	Authorized freight train speed <u>59</u>	Operated freight train speed	<u>50</u>
11. Average daily train traffic, passenger	<u>2</u>		
	Authorized passenger train speed <u>79</u>	Operated passenger train speed	<u>79</u>

Section 5 – Justification

1. Provide the following information:

a. Describe in detail the why this crossing should have median barriers installed.

Skagit County has issued a Notice of Intent to establish a quiet zone at the Colony Road at grade crossing. With the lack of train horns the risk index increases substantially, in order to reduce the risk index at this crossing without train horns it is necessary to install Supplemental Safety Measures (SSM's), non-traversable median barriers. The installation of the non-traversable median barriers with delineators will reduce the risk index with horns from 16,071.92 to 13,815.15 without horns, a 14% reduction, in addition to bringing it below the National Significant Risk Index of 14,347.00. The non-traversable median barriers will provide a physical deterrent in the absence of the train horn and restrict motorist from driving around the gates. The crossing will maintain the existing warning devices of two gates, advanced warning signs, bells and flashing lights. This crossing is part of a four crossing quiet zone in which non-traversable median barriers will be installed at three of the four crossings, reducing the overall risk index for the quiet zone from 11,497.06 with train horns to 6,077.37 without train horns.

b. Provide a description of the type of median barriers proposed.

The non-traversable median barriers will be constructed on-site using concrete. The median will be 12 inches in width and 6 inches in height. The length of the median barriers will begin at the gates and extend 100 feet in length. Reflective breakaway traffic channelization devices are 36 inches tall by 8 to 12 inches wide with 192 to 288 square inches of type III reflective sheeting. These will be installed on top of the median barriers and spaced at approximately 120 inch intervals the length of the median barriers.

c. Describe who will maintain the barriers.

The non-traversable median barriers will be maintained by Skagit County Public Works Operations Division. The barriers, channelization devices, and signing will be maintained in accordance with standard maintenance practices, repairing or replacing any compromising functionality of the barrier, channelization devices, and signing. As with all of our traffic control devices, the County performs annual inspections that included retro-reflectivity surveys and repainting of striping and curbing/medians. As this will be Skagit County's first quiet zone, we intend to monitor the site closely and address any issues, maintenance or operational that may occur.

d. Attach a proposed diagram or design of the crossing and median barriers.

See attached plan of the proposed non-traversable median barriers

Section 6 – Waiver of Hearing by Respondent

Waiver of Hearing

The undersigned represents the Respondent in the petition to install median barriers at the following crossing.

USDOT Crossing No. 084787G

We have investigated the conditions at the crossing. We are satisfied the conditions are the same as described by the Petitioner in this docket. We agree installation of median barriers should be made and consent to a decision by the commission without a hearing.

Dated at _____, Washington, on the _____ day of

_____, 20__.

Printed name of Respondent

Signature of Respondent's Representative

Title

Company Name

Phone number and email address


Mailing address

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

)	DOCKET NO. TR-
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Skagit County)	PETITION FOR INSTALLATION OF
_____)	MEDIAN BARRIERS AT A
Petitioner,)	HIGHWAY-RAIL GRADE
	)	CROSSING
vs.)	
Burlington Northern Santa Fe Railway)	
_____)	
Respondent	)	USDOT CROSSING NO.: 084789V
)	
.....)	

The Petitioner asks the Washington Utilities and Transportation Commission to approve installation of median barriers at a highway-rail grade crossing.

Section 1 – Petitioner’s Information

<u>Skagit County</u> Petitioner  Signature
<u>1800 Continental Place</u> Street Address
<u>Mount Vernon, WA 98273</u> City, State and Zip Code
<u>Same</u> Mailing Address, if different than the street address
<u>Forrest Jones</u> Contact Person Name
<u>360-416-1422 forresti@co.skagit.wa.us</u> Contact Phone Number and Email Address

Section 2 – Respondent’s Information

<u>Burlington Northern Santa Fe Railway</u> Respondent
<u>2454 Occidental Avenue South, Suite 2D</u> Street Address
<u>Seattle, WA 98134</u> City, State and Zip Code
 Mailing Address, if different than the street address
<u>Stephen Semenick, Manager of Public Projects</u> Contact Person Name
<u>206-625-6413, Stephen.Semenick@BNSF.com</u> Contact Phone Number and Email Address

Section 3 – Crossing Location

1. Name of highway/roadway <u>(South) Legg Road</u>
2. Name of railroad <u>Burlington Northern Santa Fe Railway</u>
3. USDOT Crossing No. <u>084789V</u>
4. Located in the <u>SW</u> 1/4 of the <u>SW</u> 1/4 of Sec. <u>27</u> Twp. <u>36</u> Range <u>3E</u> W.M.
5. GPS location, if known <u>Lat. 48.5906606 / Long. -122.4164870</u>
6. Railroad mile post (nearest tenth) <u>81.41</u>
7. City <u>Burlington</u> County <u>Skagit</u>

Section 4 – Current Crossing Traffic

1. Type of public road at the crossing State County City
 Port State Park Other _____
2. Average daily vehicle traffic over the tracks 190 Vehicle speed limit 25-MPH
3. Number of lanes 2
4. Trucks (commercial vehicles) are what percent of average daily traffic 0.4
5. Number of school buses over the crossing each day 2
6. Name of railroad(s) operating at crossing _____
 Burlington Northern Santa Fe Railway
 AmTrac
7. Type of railroad at crossing Common Carrier Logging Industrial
 Passenger Excursion
8. Type of tracks at crossing Main Line Siding or Spur
9. Number of tracks at crossing 1
10. Average daily train traffic, freight 20
 Authorized freight train speed 59 Operated freight train speed 50
11. Average daily train traffic, passenger 2
 Authorized passenger train speed 79 Operated passenger train speed 79

Section 5 – Justification

<p>1. Provide the following information:</p> <p>a. Describe in detail the why this crossing should have median barriers installed.</p>
<p>Skagit County has issued a Notice of Intent to establish a quiet zone at the (South) Legg Road grade crossing. With the lack of train horns the risk index increases substantially, in order to reduce the risk index at this crossing without train horns it is necessary to install Supplemental Safety Measures (SSM's), non-traversable median barriers. The installation of the non-traversable median barriers with delineators will reduce the risk index with horns from 11,920.94 to 3,976.83 without horns, a 67% reduction, in addition to bringing it below the National Significant Risk Index of 14,347.00. The non-traversable median barriers will provide a physical deterrent in the absence of the train horn and restrict motorist from driving around the gates. The crossing will maintain the existing warning devices of two gates, advanced warning signs, bells and flashing lights. This crossing is part of a four crossing quiet zone in which non-traversable median barriers will be installed at three of the four crossings, reducing the overall risk index for the quiet zone from 11,497.06 with train horns to 6,077.37 without train horns.</p>
<p>b. Provide a description of the type of median barriers proposed.</p>
<p>The non-traversable median barriers will be constructed on-site using concrete. The median will be 12 inches in width and 6 inches in height. The length of the median barriers will begin at the gates and extend 100 feet in length. Reflective breakaway traffic channelization devices are 36 inches tall by 8 to 12 inches wide with 192 to 288 square inches of type III reflective sheeting. These will be installed on top of the median barriers and spaced at approximately 120 inch intervals the length of the median barriers.</p>
<p>c. Describe who will maintain the barriers.</p>
<p>The non-traversable median barriers will be maintained by Skagit County Public Works Operations Division. The barriers, channelization devices, and signing will be maintained in accordance with standard maintenance practices, repairing or replacing any compromising functionality of the barrier, channelization devices, and signing. As with all of our traffic control devices, the County performs annual inspections that included retro-reflectivity surveys and repainting of striping and curbing/medians. As this will be Skagit County's first quiet zone, we intend to monitor the site closely and address any issues, maintenance or operational that may occur.</p>
<p>d. Attach a proposed diagram or design of the crossing and median barriers.</p>
<p>See attached plan of the proposed non-traversable median barriers</p>

Section 6 – Waiver of Hearing by Respondent

Waiver of Hearing

The undersigned represents the Respondent in the petition to install median barriers at the following crossing.

USDOT Crossing No. 084789V

We have investigated the conditions at the crossing. We are satisfied the conditions are the same as described by the Petitioner in this docket. We agree installation of median barriers should be made and consent to a decision by the commission without a hearing.

Dated at _____, Washington, on the _____ day of _____, 20__.

Printed name of Respondent

Signature of Respondent's Representative

Title

Company Name

Phone number and email address


Mailing address

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

	)	DOCKET NO. TR-
)	
Skagit County	)	PETITION FOR INSTALLATION OF
_____	)	MEDIAN BARRIERS AT A
Petitioner,	)	HIGHWAY-RAIL GRADE
	)	CROSSING
vs.)	
Burlington Northern Santa Fe Railway)	
_____)	
Respondent	)	USDOT CROSSING NO.: 084791W
)	
.....)	

The Petitioner asks the Washington Utilities and Transportation Commission to approve installation of median barriers at a highway-rail grade crossing.

Section 1 – Petitioner’s Information

<u>Skagit County</u> Petitioner  Signature
<u>1800 Continental Place</u> Street Address
<u>Mount Vernon, WA 98273</u> City, State and Zip Code
<u>Same</u> Mailing Address, if different than the street address
<u>Forrest Jones</u> Contact Person Name
<u>360-416-1422 forrestj@co.skagit.wa.us</u> Contact Phone Number and Email Address

Section 2 – Respondent's Information

Burlington Northern Santa Fe Railway
Respondent

2454 Occidental Avenue South, Suite 2D
Street Address

Seattle, WA 98134
City, State and Zip Code

Mailing Address, if different than the street address

Stephen Semenick, Manager of Public Projects
Contact Person Name

206-625-6413, Stephen.Semenick@BNSF.com
Contact Phone Number and Email Address

Section 3 – Crossing Location

1. Name of highway/roadway (North) Legg Road

2. Name of railroad Burlington Northern Santa Fe Railway

3. USDOT Crossing No. 084791W

4. Located in the SW 1/4 of the NW 1/4 of Sec. 22 Twp. 36 Range 3E W.M.

5. GPS location, if known Lat. 48.5960391 / Long. -122.4203009

6. Railroad mile post (nearest tenth) 81.829

7. City Burlington County Skagit

Section 5 – Justification

<p>1. Provide the following information:</p> <p>a. Describe in detail the why this crossing should have median barriers installed.</p>
<p>Skagit County has issued a Notice of Intent to establish a quiet zone at the (North) Legg Road grade crossing. With the lack of train horns the risk index increases substantially, in order to reduce the risk index at this crossing without train horns it is necessary to install Supplemental Safety Measures (SSM's), non-traversable median barriers. The installation of the non-traversable median barriers with delineators will reduce the risk index with horns from 11,274.93 to 3,761.32 without horns, a 67% reduction, in addition to bringing it below the National Significant Risk Index of 14,347.00. The non-traversable median barriers will provide a physical deterrent in the absence of the train horn and restrict motorist from driving around the gates. Due to the curve on the west leg of the crossing inconjunction with the median, the County will also implement truck restrictions on this crossing because of trailer tracking issues. The crossing will maintain the existing warning devices of two gates, advanced warning signs, bells and flashing lights. This crossing is part of a four crossing quiet zone in which non-traversable median barriers will be installed at three of the four crossings, reducing the overall risk index for the quiet zone from 11,497.06 with train horns to 6,077.37 without train horns.</p>
<p>b. Provide a description of the type of median barriers proposed.</p>
<p>The non-traversable median barriers will be constructed on-site using concrete. The median will be 12 inches in width and 6 inches in height. The length of the median barriers will begin at the gates and extend 100 feet in length. Reflective breakaway traffic channelization devices are 36 inches tall by 8 to 12 inches wide with 192 to 288 square inches of type III reflective sheeting. These will be installed on top of the median barriers and spaced at approximately 120 inch intervals the length of the median barriers.</p>
<p>c. Describe who will maintain the barriers.</p>
<p>The non-traversable median barriers will be maintained by Skagit County Public Works Operations Division. The barriers, channelization devices, and signing will be maintained in accordance with standard maintenance practices, repairing or replacing any compromising functionality of the barrier, channelization devices, and signing. As with all of our traffic control devices, the County performs annual inspections that included retro-reflectivity surveys and repainting of striping and curbing/medians. As this will be Skagit County's first quiet zone, we intend to monitor the site closely and address any issues, maintenance or operational that may occur.</p>
<p>d. Attach a proposed diagram or design of the crossing and median barriers.</p>
<p>See see attached plan of the proposed non-traversable median barriers</p>

Section 6 – Waiver of Hearing by Respondent

Waiver of Hearing

The undersigned represents the Respondent in the petition to install median barriers at the following crossing.

USDOT Crossing No. 084791W

We have investigated the conditions at the crossing. We are satisfied the conditions are the same as described by the Petitioner in this docket. We agree installation of median barriers should be made and consent to a decision by the commission without a hearing.

Dated at _____, Washington, on the _____ day of

_____, 20__ .

Printed name of Respondent

Signature of Respondent's Representative

Title

Company Name

Phone number and email address

Mailing address

RESOLUTION NO.

RESOLUTION INITIATING COUNTY ROAD PROJECTS

BEFORE THE BOARD OF COUNTY COMMISSIONERS OF SKAGIT COUNTY, WA

In the matter of initiating County Road Projects and assigning CRP numbers.

IT IS HEREBY RESOLVED THAT the Blanchard Quiet Zone, Tye Road Culvert, and Guemes Ferry Parking Lot Improvements Projects listed below be improved as shown at or between the points indicated. These projects are hereby declared to be a public necessity and the county road engineer is hereby ordered and authorized to report and proceed thereon as by law provided. (RCW 36.75.050, 36.80.030, and 36.80.070).

IT IS FURTHER RESOLVED that if and when Washington State Department of Transportation (WSDOT) services are used during a project as mandated in RCW 47.04.060, authorization is hereby given that WSDOT will be reimbursed for services rendered.

IT IS FURTHER RESOLVED that appropriations from the officially adopted Road Fund budget and based on the County Engineer's estimates are hereby made in the amounts and for the purposes shown:

1	2	3	4	5	6	7				8	9	
ROAD NAME AND/OR BRIDGE NUMBER	RD. LOG NO.	M.P. TO M.P.		TYPE OF WORK SEE CODES BELOW	CONTRACT	COUNTY FORCES	COST ESTIMATE (THOUSANDS)				ACP ITEM NO.	CRP NO.
							PE, ROW	CN	GRANT	LOCAL		
BLANCHARD QUIET ZONE (Legg Rd / Colony Rd)	20830 24000	Vary	Vary	A,F,G	X	X	18	45	0	63	21	ES20830-3 / -3A
TYEE ROAD	83000	0.50	0.60	A,H	X	X	37	214	0	251	20	ES83000-2
GUEMES FERRY PARKING LOT IMPROVEMENTS	N/A	N/A	N/A	A,J	X	X	47	203	216	34	22	FEMP-6

Appropriate

(4) Type of Work Code:

- | | |
|---------------------------------|-----------------------|
| A. Preliminary Engineering | F. Curbs & Gutters |
| B. Right-of-Way | G. Traffic Facilities |
| C. Grading, Draining, Surfacing | H. Bridges, Culverts |
| D. BST | I. Paths and Trails |
| E. AC or PCC Pavement | J. Ferry |

IT IS FURTHER RESOLVED that:

- The construction is to be accomplished by contract in accordance with RCW 36.77.020 et seq.
- The construction is to be accomplished by county forces in accordance with RCW 36.77.065 and WAC 136-18.
- The construction is to be accomplished by contract with County Force participation.

ADOPTED this 19 day of June, 2017.



BOARD OF COUNTY COMMISSIONERS
SKAGIT COUNTY, WASHINGTON

Ron Wesen

Ron Wesen, Chair

ABSENT

Kenneth A. Dahlstedt, Commissioner

Lisa Janicki

Lisa Janicki, Commissioner

Attest:

Linda Hamner

Clerk of the Board

Approved as to Form

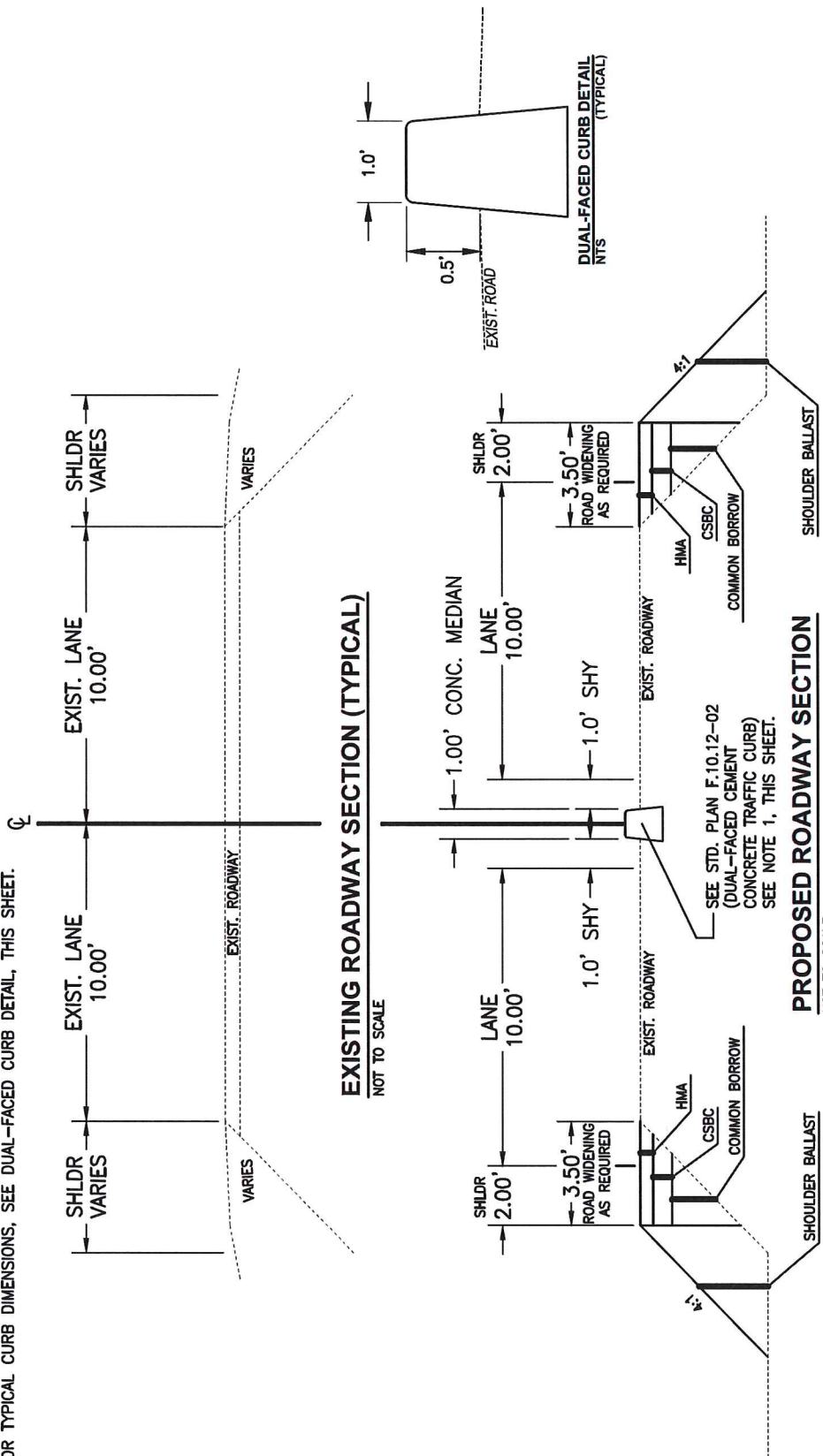
[Signature] 6/12/17
Skagit County Prosecuting Attorney

Approved as to Content:

[Signature]
Department Head

NOTES:

1) FOR TYPICAL CURB DIMENSIONS, SEE DUAL-FACED CURB DETAIL, THIS SHEET.



PROJECT NO: ES208030-3
PRELIMINARY PLANS
PAGE 1 OF 4

SKAGIT COUNTY PUBLIC WORKS
1800 CONTINENTAL PLACE
MOUNT VERNON, WA 98273-5625
(360) 416-1400 FAX (360) 416-1405

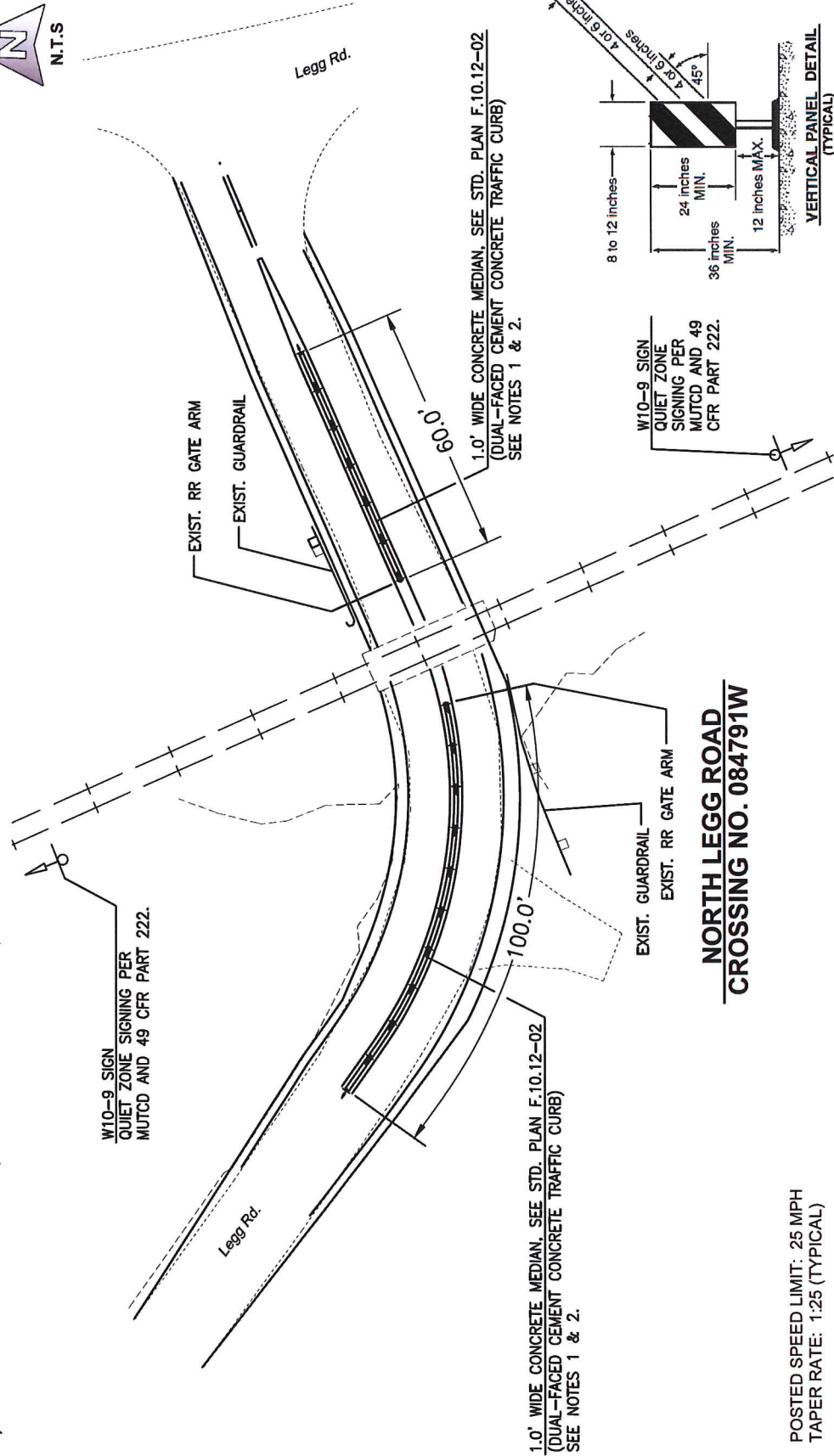


BLANCHARD QUIET ZONE PROJECT
(Existing and Conceptual Road Sections)

CONCEPTUAL ROAD SECTIONS

NOTES:

- 1) VERTICAL PANELS SHALL BE ANCHORED TO THE CURB AND PLACED EVERY 10.0' O.C.
- 2) FOR VERTICAL PANEL DIMENSIONS, SEE VERTICAL PANEL DETAIL, THIS SHEET.



**NORTH LEGG ROAD
CROSSING NO. 084791W**

POSTED SPEED LIMIT: 25 MPH
TAPER RATE: 1:25 (TYPICAL)

**BLANCHARD QUIET ZONE
(North Legg Road - Crossing No. 084791W)**

**SKAGIT COUNTY
PUBLIC WORKS**
1800 CONTINENTAL PLACE
MOUNT VERNON, WA 98273-5625
(360) 416-1400 FAX (360) 416-1405



PROJECT NO: ES208030-3
PRELIMINARY PLANS

PAGE 2
OF 4

NOTES:

- 1) VERTICAL PANELS SHALL BE ANCHORED TO THE CURB AND PLACED EVERY 10.0' O.C.
- 2) FOR VERTICAL PANEL DIMENSIONS, SEE VERTICAL PANEL DETAIL, SHEET 2.

1.0' WIDE CONCRETE MEDIAN, SEE STD. PLAN F.10.12-02
(DUAL-FACED CEMENT CONCRETE TRAFFIC CURB)
SEE NOTES 1 & 2.

100.0'

Legg Rd.

EXIST. GUARDRAIL
EXIST. RR GATE ARM

100.0'

1.0' WIDE CONCRETE MEDIAN, SEE STD. PLAN F.10.12-02
(DUAL-FACED CEMENT CONCRETE TRAFFIC CURB)
SEE NOTES 1 & 2.

W10-9 SIGN
QUIET ZONE SIGNING PER
MUTCD AND 49 CFR PART 222.



N.T.S

W10-9 SIGN
QUIET ZONE SIGNING PER
MUTCD AND 49 CFR PART 222.

EXIST. RR GATE ARM
EXIST. GUARDRAIL

Legg Rd.

**SOUTH LEGG ROAD
CROSSING NO. 084789V**

POSTED SPEED LIMIT: 25 MPH
TAPER RATE: 1:25 (TYPICAL)

**BLANCHARD QUIET ZONE
(South Legg Road - Crossing No. 084789V)**

SOUTH LEGG ROAD CONCEPTUAL PLANS



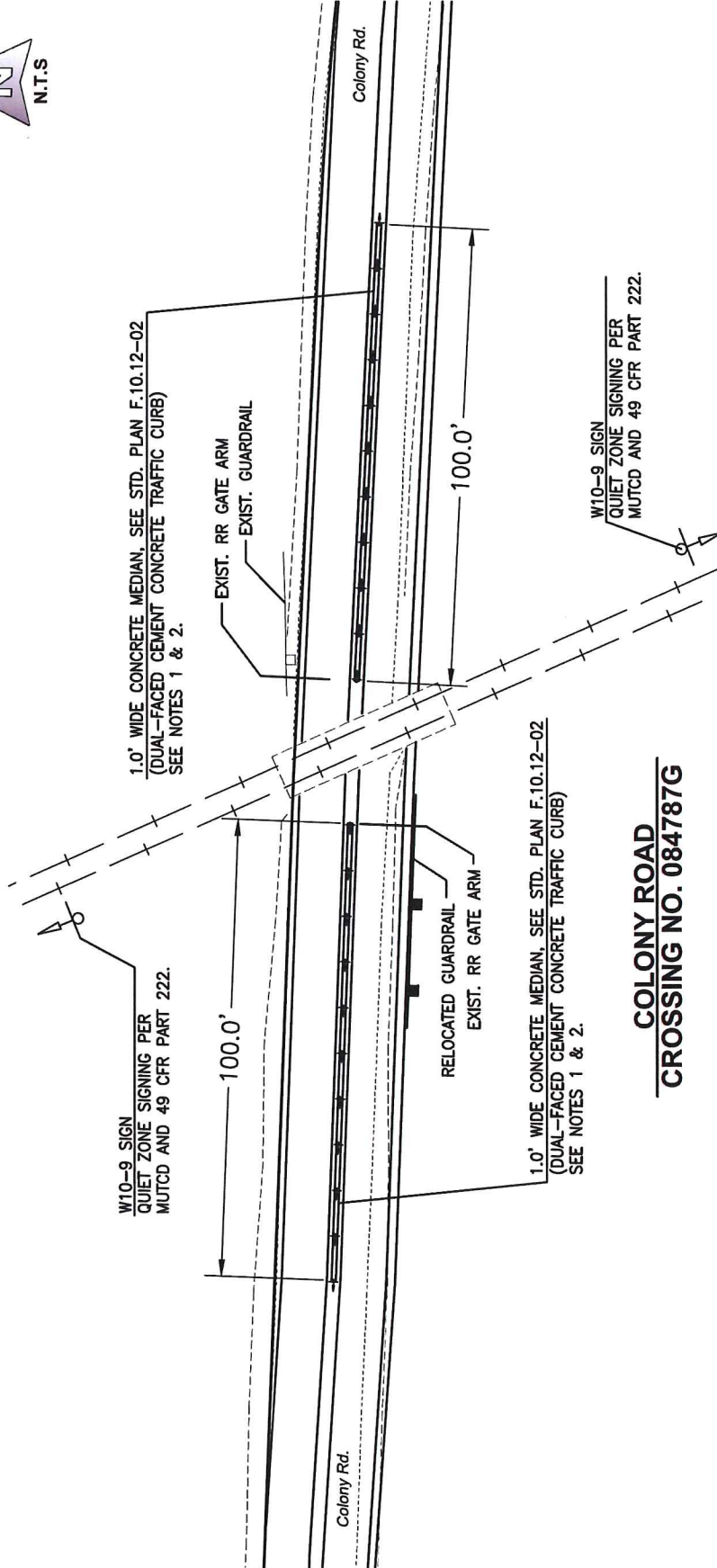
**SKAGIT COUNTY
PUBLIC WORKS**
1800 CONTINENTAL PLACE
MOUNT VERNON, WA 98273-5625
(360) 416-1400 FAX (360) 416-1405

PROJECT NO: ES208030-3
PRELIMINARY PLANS

PAGE
3 OF 4

NOTES:

- 1) VERTICAL PANELS SHALL BE ANCHORED TO THE CURB AND PLACED EVERY 10.0' O.C.
- 2) FOR VERTICAL PANEL DIMENSIONS, SEE VERTICAL PANEL DETAIL, SHEET 2.



**COLONY ROAD
CROSSING NO. 084787G**

POSTED SPEED LIMIT: 40 MPH
TAPER RATE: 1:40 (TYPICAL)

**BLANCHARD QUIET ZONE
(Colony Road - Crossing No. 084787G)**

COLONY ROAD CONCEPTUAL PLANS



**SKAGIT COUNTY
PUBLIC WORKS**
1800 CONTINENTAL PLACE
MOUNT VERNON, WA 98273-5625
(360) 416-1400 FAX (360) 416-1405

PROJECT NO: ES208030-3A
PRELIMINARY PLANS

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OF 4