



**Snohomish County
Public Works**

M E M O R A N D U M

Date: August 15, 2018
To: Betty Young, Transportation Planning Specialist
From: Jeffrey Rivers, Snohomish County Public Works
Subject: 48th Ave Railroad Crossing – UTC Petition

Dear Ms. Young,

Attached is the revised *Petition to install highway rail grade crossing warning devices*, docket TR-170060 for the BNSF project to upgrade their railroad crossing DOT 084 683A on 48th Ave W in Stanwood, WA. Since the original petition was signed and submitted to the UTC the railroad has updated their cost estimate and revised their construction schedule.

This petition is to request that the grant amount be increased from the original approved amount to a new amount of \$480,794, with that amount available for reimbursement to Snohomish County through June 30th, 2019.

Regards,

Jeffrey Rivers

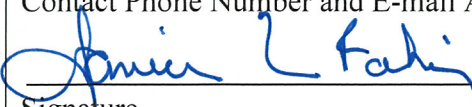
Encl: Revised UTC petition docket TR-170060 w/ waiver

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

Snohomish County Public Works)	DOCKET NO. TR-
_____)	
Petitioner,)	PETITION TO INSTALL HIGHWAY-
)	RAIL GRADE CROSSING ACTIVE
vs.)	WARNING DEVICES AND
)	DISBURSEMENT OF FUNDS FROM
Burlington Northern Santa Fe)	THE GRADE CROSSING
_____)	PROTECTIVE FUND
Respondent)	
.....)	USDOT NO.:084-683A
)	

The Petitioner asks the Washington Utilities and Transportation Commission to approve installation of highway-rail grade crossing active warning signals and sidewalks, and disburse funds from the Grade Crossing Protective Fund.

Section 1 – Petitioner’s Information

<u>Snohomish County Public Works</u> Petitioner
<u>3000 Rockefeller Ave. MS-607</u> Street Address
<u>Everett, WA 98201</u> City, State and Zip Code
<u>Same</u> Mailing Address, if different than the street address
<u>Janice L. Fahning</u> Contact Person Name
<u>(425) 754-6618,</u> <u>Janice.Fahning@snoco.org</u>
Contact Phone Number and E-mail Address
<u> 8-14-18</u> Signature

Section 2 – Respondent's Information

<u>Burlington Northern Santa Fe Railroad</u> Respondent
<u>2454 Occidental Avenue South, Suite 2D</u> Street Address
<u>Seattle, WA 98134</u> City, State and Zip Code
<u>Same as above</u> Mailing Address, if different than the street address
<u>Stephen Semenick</u> Contact Person Name
<u>(206) 625-6152,</u> <u>Stephen.Semenick@BNSF.com</u> Contact Phone Number and E-mail Address

Section 3 – Crossing Location

1. Existing highway/roadway <u>48th Ave NW</u>
2. Existing railroad <u>Burlington Northern Santa Fe</u>
3. USDOT Crossing No. <u>084-683 A</u>
4. Located in the <u>SE</u> 1/4 of the <u>NE</u> 1/4 of Sec. <u>33</u> , Twp. <u>32</u> , Range 4, W.M.
5. GPS location, if known <u>48.2185301, -122.2971902</u>
6. Railroad mile post (nearest tenth) <u>052.41</u>
7. City <u>Stanwood</u> County <u>Snohomish</u>

Section 4 – Project Information

Please attach additional sheets as necessary that provide the following:

1. A detailed summary of the project. Include any information about accidents or incidents at the site and photographs, drawings or other materials that support the application.

The current crossing is an at-grade crossing of the BNSF tracks and 48th Ave NW, near Stanwood WA. The crossing is only passively controlled with stop signs at the crossing and warning signs in advance of the crossing. The angle of intersection between the road and the tracks is 65 degrees.

The FRA accident database has three recorded collisions between trains and motor vehicles at the crossing. A summary of the collisions is:

August 2007, pickup truck attempted to cross tracks and was struck by an Amtrak train.
January 2010, delivery truck attempted to cross tracks and was struck by a freight train.
February 2012, automobile stuck on the tracks and was struck by an Amtrak train. Snow on the road may have contributed.

One of the three recorded collisions resulted in injuries to the motorist. No train passengers or crew were injured, and no fatalities were recorded.

All accidents occurred during nighttime conditions. There are no street lights at the crossing or along 48th Ave NW.

The improvements to the crossing include adding motorized two-quadrant gates with post-mounted flashing lights and warning bells, and an equipment bungalow with the required control equipment to operate the gates and lights.

Section 5 – Current Highway Traffic Information

Please complete all information in this section. Incomplete information may cause delays in the petition approval process.

1. Name of highway <u>48th Ave NW</u>
2. Road authority <u>Snohomish County</u>
3. Average annual daily traffic (AADT) <u>156</u>
4. Number of lanes <u>2</u>
5. Roadway speed <u>35 mph</u>
6. Is the crossing part of an established truck route? Yes _____ No <u>X</u> _____
7. If so, trucks are what percent of total daily traffic? <u>n/a</u> _____
8. Is the crossing part of an established school bus route? Yes _____ No <u>X</u> _____
9. If so, how many school buses travel over the crossing each day? <u>n/a</u> _____
10. Describe any changes to the information in 1 through 7, above, expected within ten years: <u>No changes are expected.</u>

Section 7 – Current Warning Devices

1. Provide a complete description of the warning devices currently located at the crossing, including signs and any other warning devices.

The crossing is protected by one R1-1 Stop sign on a wooden post on each side of the crossing. Each sign is on the right side of the road. Above each sign on the same post is a single-sided R15-1 railroad crossbuck. Next to each stop sign and across the width of the travel lane is one 12” white thermoplastic stop bar.

Ahead of each stop sign is one W10-1 RR Crossing Ahead sign on the right side of the road. Next to each RR Crossing Ahead sign are grade crossing pavement markings as shown in figure 8B-7 of the 2009 MUTCD.

Ahead of each RR Crossing Ahead sign is one W3-1 Stop Ahead sign on the right side of the road.

See exhibit #2 below for a plan of the existing conditions.

Section 8 – Description of Proposed Changes

1. Describe in detail the number and type of automatic signals, gates or proposed warning devices, including the proposed type of train detection. Provide a description of the type of sidewalks proposed. Describe who will maintain the sidewalks.

The proposed plan will install two posts, each post will have one automatic gate, two flasher assemblies, and one bell, with crossbuck signs. The existing stop signs and stop ahead signs will be removed.

A new bungalow will be installed to operate the gates, lights, and bells. The bungalow will include batteries, chargers, an event recorder, and a constant warning detection system. The bungalow will be connected to utility power and will have a cellular modem for remote monitoring by the operating agency.

See Exhibit #3 below showing the proposed crossing system.

There are no existing sidewalks on 48th Ave NW, and no new sidewalks will be constructed with this project.

The Railroad has requested improvements to the profile of 48th Ave NW, but at this time Snohomish County does not have funds available for any improvements to the road.

Section 9 – Illustration of Proposed Warning Devices

Attach a detailed diagram, drawing, map or other illustration showing the proposed warning devices and sidewalks.
See exhibit #3 below for a diagram of the proposed improvements

Section 10 – Project Cost Information

1. A cost estimate, including:
 - a. An itemized list of the total costs of the project.
 - b. Names of parties contributing to the project, including the applicant, and the amount each is contributing.
 - c. The amount the applicant is requesting from the GCPF grant program.

DESCRIPTION	QUANTITY	U/M	COST	TOTAL \$

LABOR				

ELECTRICAL LABOR F/SIGNAL EQUIPMENT	108	MH	3,323	
SIGNAL FIELD - INSTALL	2006	MH	61,845	
SIGNAL SHOP LABOR - CAP	1.2	MH	41	
PAYROLL ASSOCIATED COSTS			41,615	
DA OVERHEADS			67,392	
EQUIPMENT EXPENSES			13,367	
INSURANCE EXPENSES			10,953	
TOTAL LABOR COST			198,536	\$ 198,536

MATERIAL				

ARRESTOR, MDSA-2 XS	1	EA	697	
BATTERY, 10 VGL-255, 9 VGL-350	1	LS	4,659	
BELLS	2	EA	412	
BERM WALL, CONCRETE, 6'x10'x12', L SHAPE	22	FT	5,246	
BUNGALOW 8X8 W/AC	1	LS	9,377	
BUNGALOW MATERIAL	1	LS	7,564	
CABLE, 2C/6 TW	500	FT	630	
CABLE, 3C/2	500	FT	3,000	
CABLE, 5C/10	70	FT	133	
CABLE, 5C/6	500	FT	2,105	

CABLE, 7C/14	500	FT	875	
CHARGERS, 12/20, 12/40	1	LS	987	
CONSTANT WARNING, XP4, 1TK	1	EA	16,252	
ELECTRICAL MATERIAL	1	EA	1,500	
EVENT RECORDER	1	EA	3,250	
FIELD MATERIAL	1	LS	7,386	
FILL DIRT	20	CY	500	
FILTER, TRACK	2	EA	482	
FOUNDATION, CONCRETE	2	EA	547	
GATE KEEPER	2	EA	3,334	
GUARD RAIL, ONE-HALF	2	EA	886	
LED LIGHT	8	EA	1,461	
LED LIGHT GATE KIT	2	EA	338	
LIGHT OUT DETECTOR	1	EA	913	
MODEL S-60 GATE MECHANISM	2	EA	10,941	
SHUNT, NBS	2	EA	1,998	
SURFACE ROCK	10	CY	500	
X REM HSE - ARRESTOR, MDSA-2 XS	1	EA	697	
X REM HSE - BATTERY, 18 VGL-350	1	LS	5,110	
X REM HSE - BUNGALOW 8X8 W/ AC	1	LS	9,377	
X REM HSE - BUNGALOW MATERIAL	1	LS	3,928	
X REM HSE - CABLE, 2C/6 TW	200	FT	252	
X REM HSE - CABLE, 3C/2	250	FT	1,500	
X REM HSE - CABLE, 7C/14	5500	FT	9,625	
X REM HSE - CHARGER, 12/80 (20/40/60)	1	EA	987	
X REM HSE - CONSTANT WARNING, XP4, 2TK	1	EA	27,034	
X REM HSE - CONVERTOR, 10-10	2	EA	372	
X REM HSE - ELECTRICAL MATERIAL	1	EA	1,500	
X REM HSE - FIELD MATERIAL	1	LS	4,832	
X REM HSE - FILL DIRT	20	CY	500	
X REM HSE - FILTER, TRACK	2	EA	482	
X REM HSE - GENERATOR, ACG-3	1	EA	313	
X REM HSE - INDUCTOR, DUMMY LOAD	2	EA	1,588	
X REM HSE - RELAY, DAX	2	EA	1,500	
X REM HSE - SHUNT, NBS	4	EA	3,995	
X REM HSE - SURFACE ROCK	10	CY	500	
USE TAX			15,101	
OFFLINE TRANSPORTATION			1,995	
TOTAL MATERIAL COST			\$ 177,161	\$ # 177,161

OTHER				

AC POWER SERVICE	1	EA	5,000	
BUNGALOW, WIRE AND TEST 1TK	1	EA	10,061	
CONTRACT ENGINEERING	1	LS	12,000	
DIRECTIONAL BORING	400	FT	20,000	
X REM HSE - AC POWER SERVICE	1	EA	10,000	
			\$	\$
TOTAL OTHER ITEMS COST			57,061	# 57,061
PROJECT SUBTOTAL				432,758
CONTINGENCIES				43,275
BILL PREPARATION FEE				4,761
GROSS PROJECT COST				480,794
LESS COST PAID BY BNSF				0
				\$
TOTAL BILLABLE COST				480,794

2. The name of the party responsible for long-term maintenance.

Burlington Northern Santa Fe

Section 11 – Project Completion

1. An estimated timeline of the project.

December 2016: Petition review & submission to UTC

January 2017: Petition approved, Notice to Proceed issued

November, 2017: Petition extension requested

December, 2017: Petition extension granted by UTC

August, 2018: Railroad Agreement finalized, Petition request for funding increase submitted

September 2018: Equipment ordered by Railroad, final engineering initiated

March 2019: Work completed, final inspection & approval

June 2019: Railroad submits final bill to Snohomish County

2. A description of how the project's success would be measured.

Completion of this project should significantly reduce vehicle-train collisions at this crossing, especially collisions occurring at night.

3. A description of the applicant’s experience in grant management or completing grant projects of this nature, including years of experience, types of projects completed and project cost/scope.

Snohomish County has been CA certified for over 20 years, and administers an annual construction program of about \$30 million per year. Some recent projects funded in part or in whole with grants include:

128th Ave Near-Side Signal Heads (phases 1 & 2) – Upgrade existing County traffic signals to have near-side indications and ADA accessible pushbuttons
Construction Amount: \$216,000 Completed: December, 2013

North Road Corridor Improvements – Widen North Road between SR-524 and 148th St SW from a two-lane road to three lanes with curb, gutter, sidewalk, stormwater detention facilities, and new traffic signal interconnect system.
Construction Amount: \$13,000,000 Completed: November, 2015

52nd Avenue West Corridor Improvements – Widen 52nd Ave W between Lynnwood City Limits and 164th St SW from a two lane road to three lanes with curb, gutter, sidewalk, stormwater detention facilities, and new traffic signal interconnect system.
Construction Amount: \$6,900,000 Completed: April, 2014

4. Any other information the applicant believes would be useful to the Commission in considering the project.

Section 12 – Waiver of Hearing by Respondent

Waiver of Hearing

The undersigned represents the Respondent in the petition to install highway-rail grade crossing warning signals at the following crossing.

USDOT Crossing No. 084-683A

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 the warning signals should be installed and consent to a decision by the commission without a hearing.

Dated at BINGHAM, Washington, on the 20th day of

January, 20 17.

Richard Wagner

Printed name of Respondent

[Signature]

Signature of Respondent's Representative

MGR Public Projects NW Division

Title

Company Name

BNSF Railway

Phone number and email address

206.625.6152 Richard.Wagner@BNSF.com

2454 Occidental Ave So Ste 20 98134

Mailing address