TR-100221-P

CITY OF MUKILTEO

11930 CYRUS WAY • MUKILTEO, WASHINGTON 98275

2010 FEB -4 AM 9:50

February 2, 2010

Kathy Hunter, Deputy Assistant Director, Transportation Safety
Washington Utilities and Transportation Commission
1300 S Evergreen Park Dr. SW
PO Box 47250
Olympia, WA 98504-7250

RE: Petition to Modify Highway-Rail Grade Crossing Active Warning Devices

Dear Ms. Hunter:

Please find enclosed the above referenced document. We look forward to moving forward with full implementation of the Mukilteo Quiet Zone at the Mt. Baker Ave. crossing off Mukilteo Lane.

Please let me know if there are any questions or a need of further information.

Sincerely,

Larry Waters

Larry Waters, P.E.
Public Works Director
City of Mukilteo
425-263-8080
lwaters@ci.mukilteo.wa.us

Enclosure

Pc: Quiet Zone Project File/Correspondence

UTC
LITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

City of Mukilteo Petitioner, vs. BNSF Railway Company Respondent	DOCKET NO. TR- 100221 PETITION TO MODIFY HIGHWAY-RAIL GRADE CROSSING ACTIVE WARNING DEVICES USDOT CROSSING # 085452V UTC CROSSING # 2B28.80

2010 FEB -4 AM 9:51

The Petitioner asks the Washington Utilities and Transportation Commission to approve modification of highway-rail grade crossing warning signals.

Section 1 – Petitioner's Information

City of Mukilteo
Petitioner

11930 Cyrus Way
Street Address

Mukilteo, WA 98275
City, State and Zip Code

Mailing Address, if different than the street address

Larry Waters
Contact Person Name

425-263-8080
Contact Phone Number and E-mail Address

Section 2 – Respondent's Information

BNSF Railway Company
Respondent

2454 Occidental Avenue South Suite 1A
Street Address

Seattle, WA 98134
City, State and Zip Code

Mailing Address, if different than the street address

Todd Kuhn
Contact Person Name

206-625-6146, todd.kuhn@bnsf.com
Contact Phone Number and E-mail Address

Section 3 – Crossing Location

1. Existing highway/roadway Mt. Baker Avenue off of Mukilteo Lane

2. Existing railroad BNSF

3. USDOT Crossing No. 085452V UTC Crossing No. 2B28.80

4. Located in the SE 1/4 of the SE 1/4 of Sec. 33 , Twp. 29 , Range 4 W.M.

5. GPS location, if known Not known

6. Railroad mile post (nearest tenth) 28.9

7. City Mukilteo County Snohomish

Section 4 – Current Highway Traffic Information

1. Name of highway Mt. Baker Avenue

2. Road authority City of Mukilteo

3. Average annual daily traffic (AADT) Prior to closure two years ago, was less than 500

4. Number of lanes Two

5. Roadway speed 25 mph

6. Is the crossing part of an established truck route? Yes ____ No X

7. If so, trucks are what percent of total daily traffic? Local deliveries only, less than 5%.

8. Is the crossing part of an established school bus route? Yes ____ No X

9. If so, how many school buses travel over the crossing each day? NA

10. Describe any changes to the information in 1 through 7, above, expected within ten years:

Once the new ferry terminal is built AADT may increase.

Section 5 – Current Crossing Information

1. Railroad company BNSF

2. Type of railroad at crossing x Common Carrier ☐ Logging ☐ Industrial

☐ Passenger ☐ Excursion

3. Type of tracks at crossing x Main Line x Siding or Spur

4. Number of tracks at crossing 3 (2 main tracks)

5. Average daily train traffic, freight 24

Authorized freight train speed 50 Operated freight train speed 50

6. Average daily train traffic, passenger 14

Authorized passenger train speed 55 Operated passenger train speed 55

7. Describe any changes to the information in 1 through 4, above, expected within ten years:

None

8. What is the available sight distance from the stop bar (or 25 feet from the tracks if no stop bar) on both approaches to the crossing?

In excess of 600 feet both directions.

9. If the sight distance is less than 400 feet, describe the structures, roadway or track curvature, visual obstacles or other characteristics that limit sight distance.

NA

Section 5 – Current Warning Devices

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

RR crossing signs are present, 4-quadrant gates, flashing lights, CWT circuitry, bells, and vehicle detection loops.

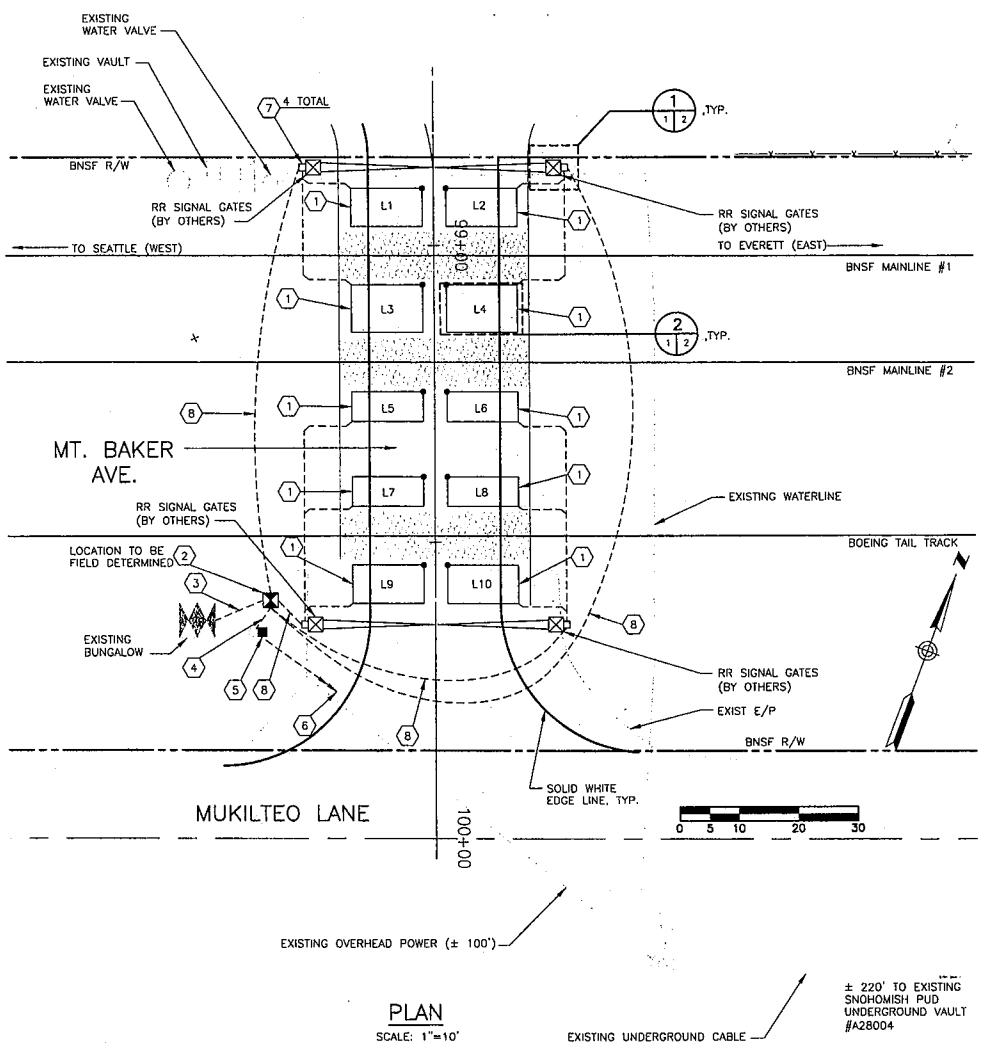
Section 6 – Description of Proposed Changes

1. Describe in detail the proposed changes to the crossing. Include the funding source for the proposed installation, if applicable.

All changes have already been made, as listed above. Changes paid for by BNSF and the City through a mitigation fee from the Port of Everett.

Section 7 – Illustration of Proposed Warning Devices

Attach a detailed diagram, drawing, map or other illustration showing the proposed warning devices.



PLAN

SCALE: 1"=10'

STREET NAME– MOUNT BAKER AVE.
CITY– MUKILTEO
STATE– WASHINGTON
M.P.– 28.88
RAILROAD– BNSF RAILWAY
SUB– SCENIC
USDOT # 085–452V

CONSTRUCTION NOTES

1. CONTRACTOR TO SAW CUT ASPHALT PER DETAIL SHOWN ON DWG. 2. CONTRACTOR TO INSTALL PREFORMED LOOP WITH CORNER BRACKETS (RENO A&E P/N 428–0020–00) PER LOOP SCHEDULE AND RAILROAD CONTROLS LIMITED (RCL) RECOMMENDED PRACTICES.
2. CONTRACTOR TO INSTALL SINGLE LOW CASE PER RCL REQUIREMENTS.
3. CONTRACTOR TO COORDINATE WITH BNSF FOR LOOP WIRE TERMINATIONS.
4. CONTRACTOR TO INSTALL CONDUIT AND CABLES AS REQUIRED BY SNOHOMISH COUNTY PUD AND PER NEC.
5. CONTRACTOR TO COORDINATE WITH BNSF. CONTRACTOR TO INSTALL METER BASE AND BREAKER BOX.
6. CONTRACTOR TO COORDINATE WITH SNOHOMISH COUNTY PUD FOR POWER HOOK–UP. SNOHOMISH COUNTY PUD TO INSTALL POWER CABLE FROM POWER SOURCE TO METER BASE.
7. CONTRACTOR TO INSTALL LOOP TERMINATION JUNCTION BOX PER DETAIL ON DWG. NO. 2.
8. CONTRACTOR TO INSTALL LIQUID TIGHT FLEXIBLE METAL CONDUIT WITH ONE 6PR #18 CABLE AS SHOWN ON PLAN.

GENERAL NOTES

1. SEE DWG. NO. 2 FOR LOOP INSTALLATION NOTES.
2. IF SHEET IS LESS THAN 22X34, REDUCE ACCORDINGLY.
3. UTILITY LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. ALL UNDERGROUND UTILITIES SHALL BE LOCATED PRIOR TO EXCAVATION.

LOOP SCHEDULE

LOOP #	SIZE (FTxFT)	AREA (SF)	STATION FRONT EDGE	STATION OFFSET	LOOP CABLE PART NO.
L1	6.5x12	78	STA 98+90.2	2.0' RT	PLC–37–20
L2	6.5x12	78	STA 98+90.2	2.0' LT	PLC–37–20
L3	8x12	96	STA 99+06.7	2.0' RT	PLC–40–40
L4	8x12	96	STA 99+06.7	2.0' LT	PLC–40–40
L5	5x12	60	STA 99+24.7	2.0' RT	PLC–34–55
L6	5x12	60	STA 99+24.7	2.0' LT	PLC–34–55
L7	5x12	60	STA 99+38.9	2.0' RT	PLC–34–45
L8	5x12	60	STA 99+38.9	2.0' LT	PLC–34–45
L9	6.5x12	78	STA 99+53.9	2.0' RT	PLC–37–20
L10	6.5x12	78	STA 99+53.9	2.0' LT	PLC–37–20

LEGEND

PROPOSED

- SINGLE LOW CASE
- X — PREFORMED LOOP (X= LOOP NO.)
- SIGNAL BUNGALOW
- SIGNAL GATE
- RR TRACK X–ING PANELS (BY OTHERS)
- REFERENCE POINT FOR LOOP STATION AND OFFSET
- N/A — TIMBER POLE WITH LUMINAIRE
- N/A — TIMBER POLE
- LOOP TERMINATION JUNCTION BOX

Call 2 Working Days Before You Dig
1-800-424-5555
Utilities Underground Location Center
(ID,MT,ND,OR,WA)

Port of Everett
P.O. BOX 538
EVERETT, WA 98206
(425) 259-3164

HDR ENGINEERING INC.

A/E'S PROJECT NO.:000000000047274

NO.	DATE	BY	REVISION	NO.	DATE	BY	REVISION

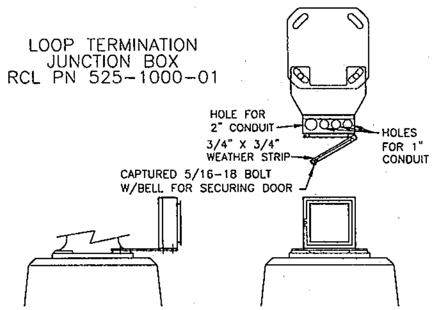
PROJECT ENGINEER: FSL	SCALE: 1"=10'
DESIGNED BY: JTB	DATE: 07/01/08
DRAWN BY: JTB	CHECKED BY: JDS
APPROVED BY:	

CITY OF MUKILTEO

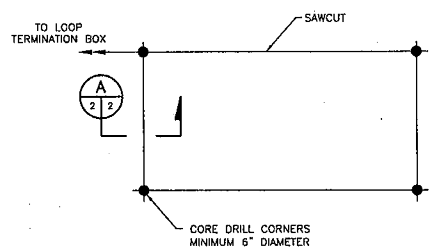
MT. BAKER AVE.

QUIET ZONE TRAFFIC LOOP DETECTION PLAN

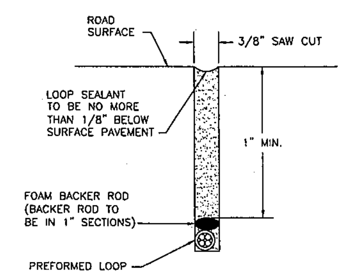
DWG. NO. 1
CIP NO. 1–8–004–03
PROJECT NO. MT–RB–2005–02.7
SHEET NO. 1 OF 3



1 (1/2) LOOP TERMINATION JUNCTION BOX RCL PN 525-1000-01 DETAIL
SCALE: NTS



2 (1/2) PREFORMED LOOP WITH SAWCUT LAYOUT
SCALE: NTS



A (2/2) PREFORMED LOOP WITH SAWCUT CROSS-SECTION
SCALE: NTS

GENERAL INSTALLATION NOTES

1. LOOP DETECTOR HOME RUN CABLE SHALL BE RCL PART #03-094-005 6PR#18AWG. ALTERNATIVELY, RENO A&E LW-418 MAY BE INSTALLED IN CONDUIT. REFER TO RCL CABLE BROCHURE FOR DETAILED SPECIFICATIONS. LOOP CONNECTIONS TO THE HOME RUN CABLES SHALL USE WAGO LEVER CLAMP RCL PART #03-082-029 OR SHALL BE SOLDERED. ALL CONNECTIONS ARE TO BE SEALED TO PREVENT MOISTURE PENETRATION. LOOP CONNECTIONS SHALL BE SEALED WITH LOW MOISTURE ABSORPTION 3M SCOTCH SEAL 2229 1"X10' MASTIC OR WITH A SCOTCH CAST SPLICE ASSEMBLY.
2. THE PRIMARY AND CHECK LOOP WITH HOME RUN CABLE CONNECTED SHALL HAVE AN INSULATION RESISTANCE GREATER THAN 100 MEG OHMS UPON INSTALTION.

PREFORMED LOOP WITH SAWCUT INSTALLATION NOTES

1. THE PAVEMENT CUT IS TO BE MADE WITH A CONCRETE SAW TO NEAT LINES AND LOOSE MATERIAL REMOVED. THE CUT SHALL BE CLEAN AND DRY WHEN PREFORMED LOOP CABLE AND SEALING COMPOUND IS PLACED. SAW CUT WIDTH TO BE PER SECTION A.
2. PREFORMED LOOP CABLE SHALL BE RENO A&E LW-418 (.360" O.D.). DOUBLE JACKETED 4 CONDUCTORS LOOP CABLE.
3. ALL PREFORMED LOOP CABLE PLACED IN SAW CUT SHALL BE SEALED BY FULLY ENCAPSULATING IT IN A 3M DETECTOR LOOP SEALANT 5000 OR EQUIVALENT ROADWAY AUTHORITY STANDARD. FOAM BACKER ROD SECTIONS SHOULD BE LIMITED TO 1" IN LENGTH SPACED APPROXIMATELY 12" TO 18" APART TO RETAIN PREFORMED LOOP CABLE DURING LOOP SEALANT APPLICATION.
4. PREFORMED LOOP WILL HAVE A 3 TURN PRIMARY LOOP AND A ONE TURN CHECK LOOP. THE PRIMARY LOOP WIRES ARE WHITE AND BLACK. THE CHECK LOOP WIRES ARE RED AND GREEN. THE LOOP SHALL BE CONSTRUCTED USING A RENO A&E HIGH IMPACT GLASS IMPREGNATED PLASTIC SPLICE CONTAINER, RENO A&E LW-418 CABLE, INJECTION MATERIAL FOR THE SPLICE CAVITY, AND SOLDERED CONNECTIONS. LOOP TO BE PRE TESTED FOR FOR LEAKAGE @ 500 VDC. SPECIFY LOOP PERIMETER AND LEAD IN LENGTH TO JUNCTION BOX WHEN ORDERING CONTACT RCL.

GENERAL NOTES

1. IF SHEET IS LESS THAN 22X34, REDUCE SCALES ACCORDINGLY.

Call 2 Working Days Before You Dig
1-800-424-5555
Utilities Underground Location Center
(ID,MT,ND,OR,WA)

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HDR ENGINEERING INC.
A/E'S PROJECT NO.:000000000047274

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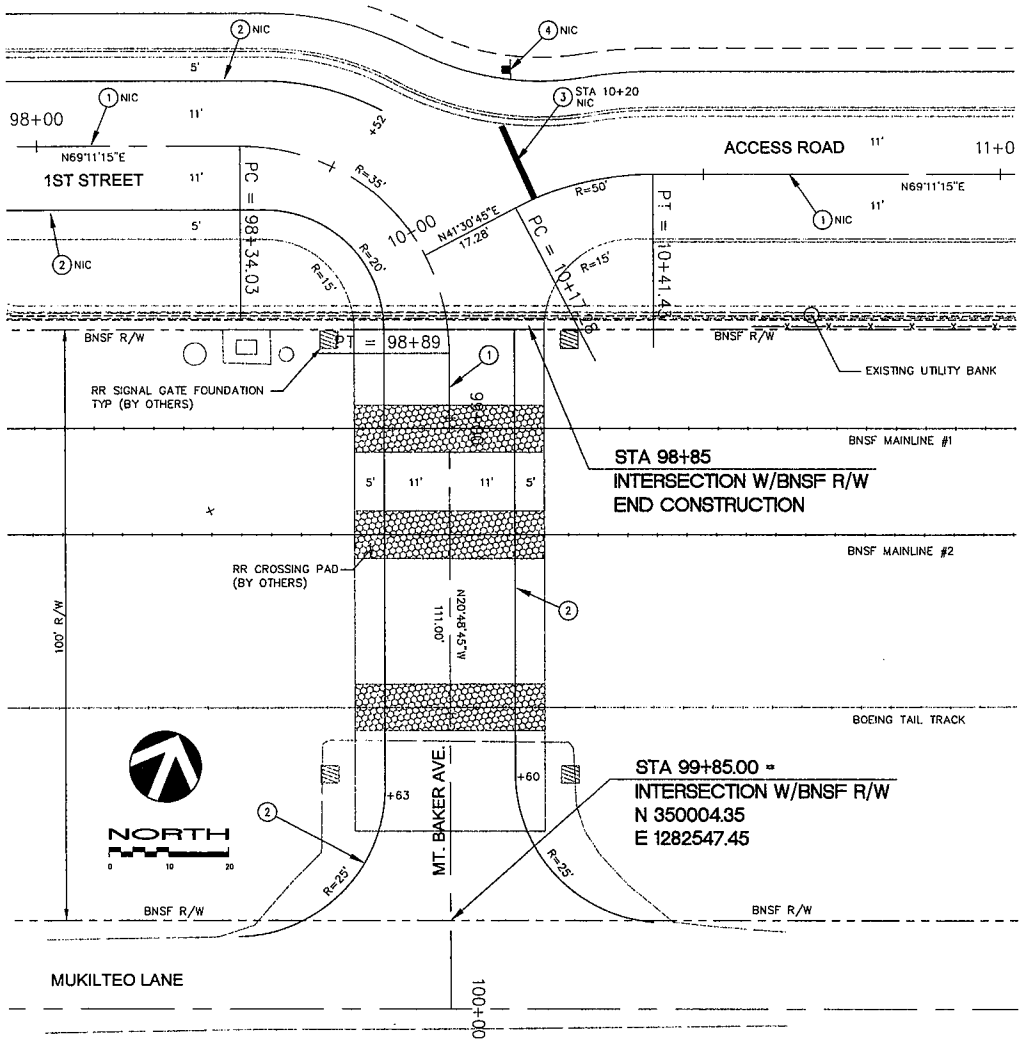
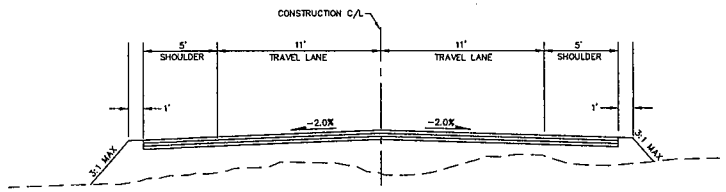
PROJECT ENGINEER: FSL
SCALE: NTS
DESIGNED BY: JTB
DATE: 07/01/08
DRAWN BY: JTB
CHECKED BY: JDS
APPROVED BY:

SUSAN LI... STATE OF WASHINGTON ... PROFESSIONAL ENGINEER
EXPIRES 6/15/2010

CITY OF MUKILTEO
MT. BAKER AVE.
QUIET ZONE TRAFFIC LOOP DETECTION DETAILS

DWG. NO. 2
CIP NO. 1-8-004-03
PROJECT NO. MT-RB-2005-02.7
SHEET NO. 2 OF 3





MT. BAKER AVE

TYPICAL SECTION

CONSTRUCTION NOTES:

1. ALL WORK AND MATERIAL SHALL CONFORM TO THE CITY OF MUKILTEO STANDARDS AND STANDARDS SPECIFICATIONS OF WSDOT/ APWA.
2. APPROXIMATE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF LOCATIONS AND TO AVOID DAMAGE TO ANY ADDITIONAL UTILITIES NOT SHOWN. IF CONFLICTS WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND ANY CHANGES REQUIRED SHALL BE APPROVED PRIOR TO COMMENCEMENT OF RELATED CONSTRUCTION OF THE PROJECT.

CHANNELIZATION NOTES:

1. INSTALL DOUBLE YELLOW CENTER LINE PER WSDOT STANDARD PLAN M-20.10-00.
2. INSTALL WHITE EDGE LINE PER WSDOT STANDARD PLAN M-20.10-00.
3. INSTALL STOP LINE PER WSDOT STANDARD SPEC 8-22. (NOT IN CONTRACT)
4. INSTALL WSDOT TYPE R1-1 "STOP" SIGN AND TYPE D3-1 STREET NAME SIGN ON 4"x4" WOOD POST PER WSDOT STANDARD SPEC 9-28. (NOT IN CONTRACT)

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Port of EVERETT
P.O. BOX 538
EVERETT, WA 98206
(425) 259-3164

DAVID EVANS AND ASSOCIATES INC.
1820 W. Marine View Drive, Suite 200
Everett Washington 98201
Phone: 425.259.4099

NO.	DATE	BY	REVISION	NO.	DATE	BY	REVISION

7/1/08
CHARLES R. SMITH
30817
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: 7/19/2010

PROJECT ENGINEER: C. SMITH	SCALE: 1"=10'
DESIGNED BY: C. SMITH	DATE: 7/01/08
DRAWN BY: C. SMITH	CHECKED BY:
APPROVED BY:	

CITY OF MUKILTEO
MOUNT BAKER AVENUE QUIET ZONE CHANNELIZATION PLAN

DWG. NO.	3
POE CIP NO.	1-8-004-03
POE PROJECT NO.	MT-RB-2005-02.7
SHEET NO.	3 OF 3

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Section 8 – Waiver of Hearing by Respondent

Waiver of Hearing

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

USDOT Crossing No. 085452V UTC Crossing No. 2B28.80

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 Seattle, Washington, on the 30th day of December, 20 09.

Todd Kuhn

Printed name of Respondent

Todd M. Kuhn

Signature of Respondent's Representative

Manager Public Projects

Title

206-625-6146, todd.kuhn@bnsf.com

Phone number and e-mail address

2454 Occidental Ave S Suite 1A

Seattle, WA 98134

Mailing address