



Calvin Nutt
Project Engineer
Northwest Division

BNSF Railway Company
2454 Occidental Ave. S. #2D
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Calvin.Nutt@bnsf.com

July 14, 2014

Kathy Hunter
Deputy Assistant Director, Trans. Safety
WUTC
1300 S Evergreen Park Dr. SW
PO Box 47250
Olympia, WA 98504-7250

Re: Docket No. TR-140478, Revised Petition for Construction/Reconstruction of Brown Rd. (084839W) at Ferndale in Whatcom Co., WA

Dear Ms. Hunter,

This letter is in support of the aforementioned WUTC petition on behalf of BNSF Railway Company for highway-rail grade crossing upgrades at Brown Road (DOT# 084839W) in Whatcom Co., WA. The following is supplemental information as provided in Section 12 of the petition for proposed reconstruction.

The project is designed to increase capacity between Seattle, WA and Vancouver, BC by connecting the Ferndale and Custer sidings (ending 0.41 miles south and 2.46 miles north of the crossing, respectively) to create a 5-mile double track segment with two locations to hold full trains without parked trains blocking crossings. The extension of the double track segment will reduce the time trains are parked on sidings throughout the Bellingham Subdivision, as it closes the meet/pass waiting distance between sidings. The Brown Road crossing will not be blocked as a result of this project.

The proposed reconstruction of the crossing is to add this additional track creating a total of two (2) tracks at Brown Road. The reconstruction will improve the roadway grade across the tracks by decreasing the bump and carrying a constant grade across both tracks, which will result in a smoother transition for vehicle users. The reconstruction will also decrease the superelevation of the tracks, making the roadway grade less steep. The additional tracks through the crossing will not impact vehicular traffic in duration or number of trains blocking the intersection. Gate-down time will be reduced as fewer trains will be slowing down at this location due to the longer stretch of double track pushing the stopping points farther away. Regarding sight distance, there are no barriers obstructing a motorist's view of the crossing.

The current method of warning is two-quadrant gates and flashers with constant warning time track circuitry. With the construction of a second track through the crossing, BNSF is proposing two-quadrant gates and flashers with constant warning time track circuitry.

Please review the attached petition and feel free to contact me with any questions.

Sincerely,

Calvin Nutt

Attachments:
UTC Petition Docket No. TR-140478 (USDOT Crossing No. 084839W)

2014 JUL 21 AM 11:44
CALVIN NUTT
PROJECT ENGINEER
NORTHWEST DIVISION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

)	DOCKET NO. TR-140478
)	
BNSF Railway)	PETITION TO CONSTRUCT OR
_____)	RECONSTRUCT A HIGHWAY-RAIL
Petitioner,)	GRADE CROSSING
)	
vs.)	
Whatcom County, Washington)	
_____)	
Respondent)	USDOT CROSSING NO.: 084839W
)	
.....)	

Prior to submitting a Petition to **Construct** a highway-rail grade crossing and install an inter-tie between a Highway Signal and a Railroad Crossing Signal System to the Washington Utilities and Transportation Commission (UTC), State Environmental Protection Act (SEPA) requirements must be met. Washington Administrative Code (WAC) 197-11-865 (2) requires:

All actions of the utilities and transportation commission under statutes administered as of December 12, 1975, are exempted, except the following:

(2) Authorization of the openings or closing of any highway/railroad grade crossing, or the direction of physical connection of the line of one railroad with that of another;

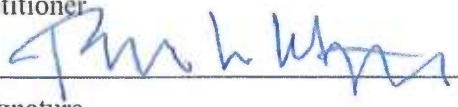
Please attach sufficient documentation to demonstrate that the SEPA requirement has been fulfilled. For additional information on SEPA requirements contact the Department of Ecology.

The Petitioner asks the Washington Utilities and Transportation Commission to approve construction or reconstruction of a highway-rail grade crossing.

Construction Reconstruction

2014 JUL 21 AM 11:45
 RECEIVED
 UTILITIES AND TRANSPORTATION
 COMMISSION

Section 1 – Petitioner’s Information

BNSF Railway Company
Petitioner

Signature
2454 Occidental Avenue South, Suite 2D
Street Address
Seattle, WA 98134
City, State and Zip Code
Same as above
Mailing Address, if different than the street address
Rick Wagner
Contact Person Name
(206) 625-6152 Richard.Wagner@BNSF.com
Contact Phone Number and E-mail Address

Section 2 – Respondent’s Information

City of Ferndale, WA
Respondent
2095 Main Street
Street Address
Ferndale, WA 98248
City, State and Zip Code
P.O. Box 936
Mailing Address, if different than the street address
Greg Young (City Administrator)
Contact Person Name
(360) 685-2351 GregYoung@cityofferndale.org
Contact Phone Number and E-mail Address

Section 3 – Proposed or Existing Crossing Location

1. Existing highway/roadway Brown Road

2. Existing railroad BNSF Railway (Bellingham Subdivision)

3. Location of proposed crossing:
Located in the NW 1/4 of the SW 1/4 of Sec. 008, Twp. 23N, Range 2E W.M.

4. GPS location, if known 48.8846509, -122.5920353

5. Railroad mile post (nearest tenth) 108.60

6. City Ferndale County Whatcom

Section 4 – Proposed or Existing Crossing Information

1. Railroad company BNSF Railway Company

2. Type of railroad at crossing Common Carrier Logging Industrial
 Passenger Excursion

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

4. Number of tracks at crossing One (1)

5. Average daily train traffic, freight Seventeen (17) trains/day
Authorized freight train speed 60 mph Operated freight train speed 0-50 mph

6. Average daily train traffic, passenger Four (4) trains/day
Authorized passenger train speed 79 mph Operated passenger train speed 0-79 mph

7. Will the proposed crossing eliminate the need for one or more existing crossings?
Yes No

8. If so, state the distance and direction from the proposed crossing.
N/A

9. Does the petitioner propose to close any existing crossings?

Yes No

Section 5 – Temporary Crossing

1. Is the crossing proposed to be temporary? Yes No

2. If so, describe the purpose of the crossing and the estimated time it will be needed

N/A

3. Will the petitioner remove the crossing at completion of the activity requiring the temporary crossing? Yes No

Approximate date of removal N/A

Section 6 – Current Highway Traffic Information

1. Name of roadway/highway Brown Road

2. Roadway classification Rural Local

3. Road authority City of Ferndale, WA

4. Average annual daily traffic (AADT) 1468 (ADT Year: 2011)

5. Number of lanes Two (2)

6. Roadway speed 35 mph

7. Is the crossing part of an established truck route? Yes No

8. If so, trucks are what percent of total daily traffic? 11% (2011)

9. Is the crossing part of an established school bus route? Yes No

10. If so, how many school buses travel over the crossing each day? 20 (School District 4/10/14)

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

N/A

Section 7 – Alternatives to the Proposal

1. Does a safer location for a crossing exist within a reasonable distance of the proposed location?

Yes No

2. If a safer location exists, explain why the crossing should not be located at that site.

N/A

3. Are there any hillsides, embankments, buildings, trees, railroad loading platforms or other barriers in the vicinity which may obstruct a motorist's view of the crossing?

Yes No

4. If a barrier exists, describe:

- ◆ Whether petitioner can relocate the crossing to avoid the obstruction and if not, why not.
- ◆ How the barrier can be removed.
- ◆ How the petitioner or another party can mitigate the hazard caused by the barrier.

N/A

5. Is it feasible to construct an over-crossing or under-crossing at the proposed location as an alternative to an at-grade crossing?

Yes No

6. If an over-crossing or under-crossing is not feasible, explain why.

Limited distance between railroad track(s) and intersection of Portal Way/Brown Road on the east side of existing BNSF Railway mainline for a grade separated approach.

7. Does the railway line, at any point in the vicinity of the proposed crossing, pass over a fill area or trestle or through a cut where it is feasible to construct an over-crossing or an under-crossing, even though it may be necessary to relocate a portion of the roadway to reach that point?

Yes No

8. If such a location exists, state:

- ◆ The distance and direction from the proposed crossing.
- ◆ The approximate cost of construction.
- ◆ Any reasons that exist to prevent locating the crossing at this site.

No options exist in the vicinity of the existing grade crossing.

9. Is there an existing public or private crossing in the vicinity of the proposed crossing?

Yes No

10. If a crossing exists, state:

- ◆ The distance and direction from the proposed crossing.
- ◆ Whether it is feasible to divert traffic from the proposed to the existing crossing.

As a part of the BNSF Railway project, two public crossings and one private crossing in or near the City of Ferndale, WA will be revised/reconstructed. The closest existing public crossing to Brown Road is Grandview Road (DOT# 084841X). It is located approximately 0.72 miles to the north of the existing Brown Road crossing. It is feasible to divert traffic to Grandview Road during the revision/reconstruction of Brown Road.

Section 8 – Sight Distance

1. Complete the following table, describing the sight distance for motorists when approaching the tracks from either direction.

a. Approaching the crossing from West, the current approach provides an unobstructed view as follows: (North, South, East, West)

Direction of sight (left or right)	Number of feet from proposed crossing	Provides an unobstructed view for how many feet
Right	300	N/A Portal Way Intersection
Right	200	N/A Portal Way Intersection
Right	100	525'
Right	50	3,500'
Right	25	3,500'
Left	300	N/A Portal Way Intersection
Left	200	N/A Portal Way Intersection
Left	100	1,025'
Left	50	1,025'
Left	25	950'

b. Approaching the crossing from East, the current approach provides an unobstructed view as follows: (Opposite direction-North, South, East, West)

Direction of sight (left or right)	Number of feet from proposed crossing	Provides an unobstructed view for how many feet
Right	300	15'
Right	200	30'
Right	100	450'
Right	50	725'
Right	25	780'
Left	300	50'
Left	200	100'
Left	100	150'
Left	50	275'
Left	25	600'

2. Will the new crossing provide a level approach measuring 25 feet from the center of the railway on both approaches to the crossing?

Yes No

3. If not, state in feet the length of level grade from the center of the railway on both approaches to the crossing. 0' 4.29% grade across tracks due to superelevation reduction from 4" to 3"
Constant grade across both tracks to eliminate bump from superelevated tracks.

4. Will the new crossing provide an approach grade of not more than five percent prior to the level grade?

Yes No

5. If not, state the percentage of grade prior to the level grade and explain why the grade exceeds five percent.

N/A.

Section 9 – Illustration of Proposed Crossing Configuration

Attach a detailed diagram, drawing, map or other illustration showing the following:

- ◆ The vicinity of the proposed crossing.
- ◆ Layout of the railway and highway 500 feet adjacent to the crossing in all directions.
- ◆ Percent of grade.
- ◆ Obstructions of view as described in Section 7 or identified in Section 8.
- ◆ Traffic control layout showing the location of the existing and proposed signage.

Section 10 – Sidewalks

1. Provide the following information:

- a. Provide a description of the type of sidewalks proposed.
- b. Describe who will maintain the sidewalks.
- c. Attach a proposed diagram or design of the crossing including the sidewalks.

N/A

Section 11 – Proposed Warning Signals or Devices

1. Explain in detail the number and type of automatic signals or other warning devices planned at the proposed crossing, including a cost estimate for each. If requesting pre-emption include the type of train detection circuitry, sequencing and advanced preemption time, justification for the changes and its effects on current warning devices and warning times for drivers.

Crossing will have the following items at the completion of the project:

Signs – Advanced Warning Signs, Stop Lines, RR Xing Symbols, and 2 Tracks Signs

Train-Activated Devices – Two (2) Gates, Two (2) Mast-Mounted Flashing Lights w/ Bells

Track will be equipped with (Constant Warning) train Detection Circuitry

Flashers will be directed towards oncoming traffic of skewed Portal Way

2. Provide an estimate for maintaining the signals for 12 months. N/A

3. Is the petitioner prepared to pay to the respondent railroad company its share of installing the warning devices as provided by law?

Yes No

Section 12 – Additional Information

Provide any additional information supporting the proposal, including information such as the public benefits that would be derived from constructing a new crossing as proposed or modifying an existing crossing. Provide project specific information.

Section 13 – Waiver of Hearing by Respondent

Waiver of Hearing

The undersigned represents the Respondent in the petition to construct or reconstruct a highway-railroad grade crossing and inter-tie the highway signal with the railroad crossing signal system.

USDOT Crossing No.: 084839W

We have investigated the conditions at the proposed or existing crossing site. We are satisfied the conditions are the same as described by the Petitioner in this docket. We agree that a crossing be installed or reconstructed and the highway signals inter-tied with the railroad crossing signal system and consent to a decision by the commission without a hearing.

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

Greg Young

Printed name of Respondent

Signature of Respondent's Representative

City Administrator

Title
City of Ferndale, WA

Name of Company

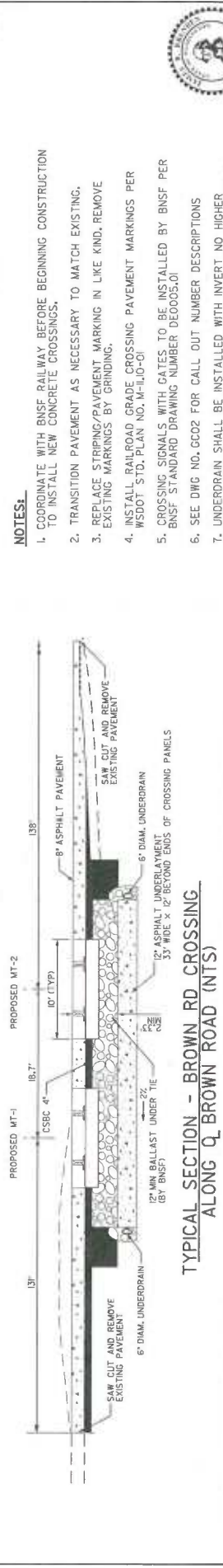
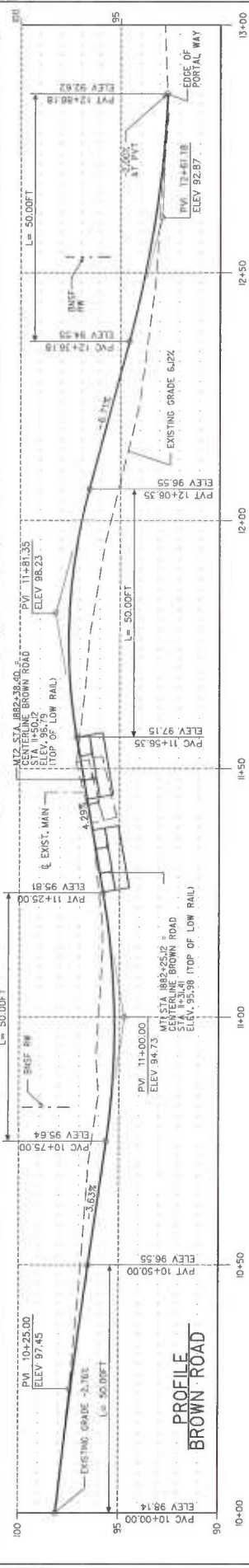
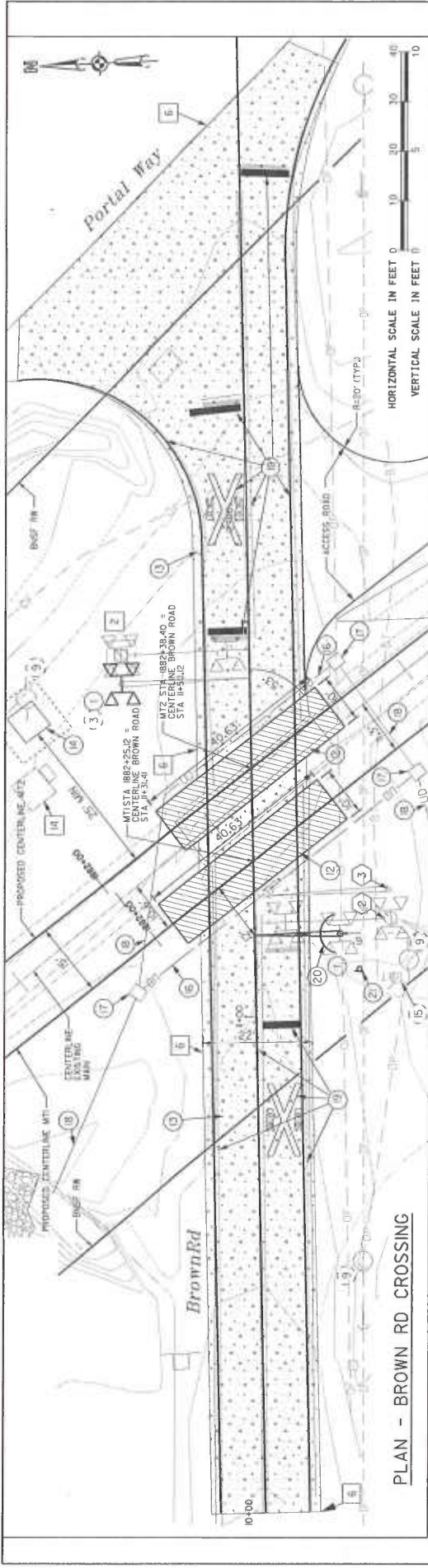
(360) 685-2351 GregYoung@cityofferndale.org

Phone number and e-mail address

P.O. Box 936

Ferndale, WA 98248

Mailing address



100% SUBMITTAL - NOT FOR BID OR CONSTRUCTION

- NOTES:**
- COORDINATE WITH BNSF RAILWAY BEFORE BEGINNING CONSTRUCTION TO INSTALL NEW CONCRETE CROSSINGS.
 - TRANSITION PAVEMENT AS NECESSARY TO MATCH EXISTING.
 - REPLACE STRIPING/PAVEMENT MARKING IN LIKE KIND. REMOVE EXISTING MARKINGS BY GRINDING.
 - INSTALL RAILROAD GRADE CROSSING PAVEMENT MARKINGS PER WSDOT STD. PLAN NO. M-110-01
 - CROSSING SIGNALS WITH GATES TO BE INSTALLED BY BNSF PER BNSF STANDARD DRAWING NUMBER DE0005.01
 - SEE DWG NO. GC02 FOR CALL OUT NUMBER DESCRIPTIONS
 - UNDERDRAIN SHALL BE INSTALLED WITH INVERT NO HIGHER THAN 25' BELOW TOP OF RAIL AND SLOPED 1% MIN AWAY FROM CENTER OF ROADWAY TO DAYLIGHT

CONSULTANT		DATE		ISSUE		BNSF APPROVALS	
DESIGNED BY	J. B. BRENDEN	6-16-14		DEPARTMENT		SIGNATURE	
ENTERED BY	J. B. BRENDEN	6-16-14					
CHECKED BY	G. K. ROE	6-16-14					
PROJ. MGR.	J. B. BRENDEN	6-16-14					

HNTB
1000 Corporate Way, Suite 900
Portland, Oregon 97208
Phone: 503.251.1000
Fax: 503.251.1001

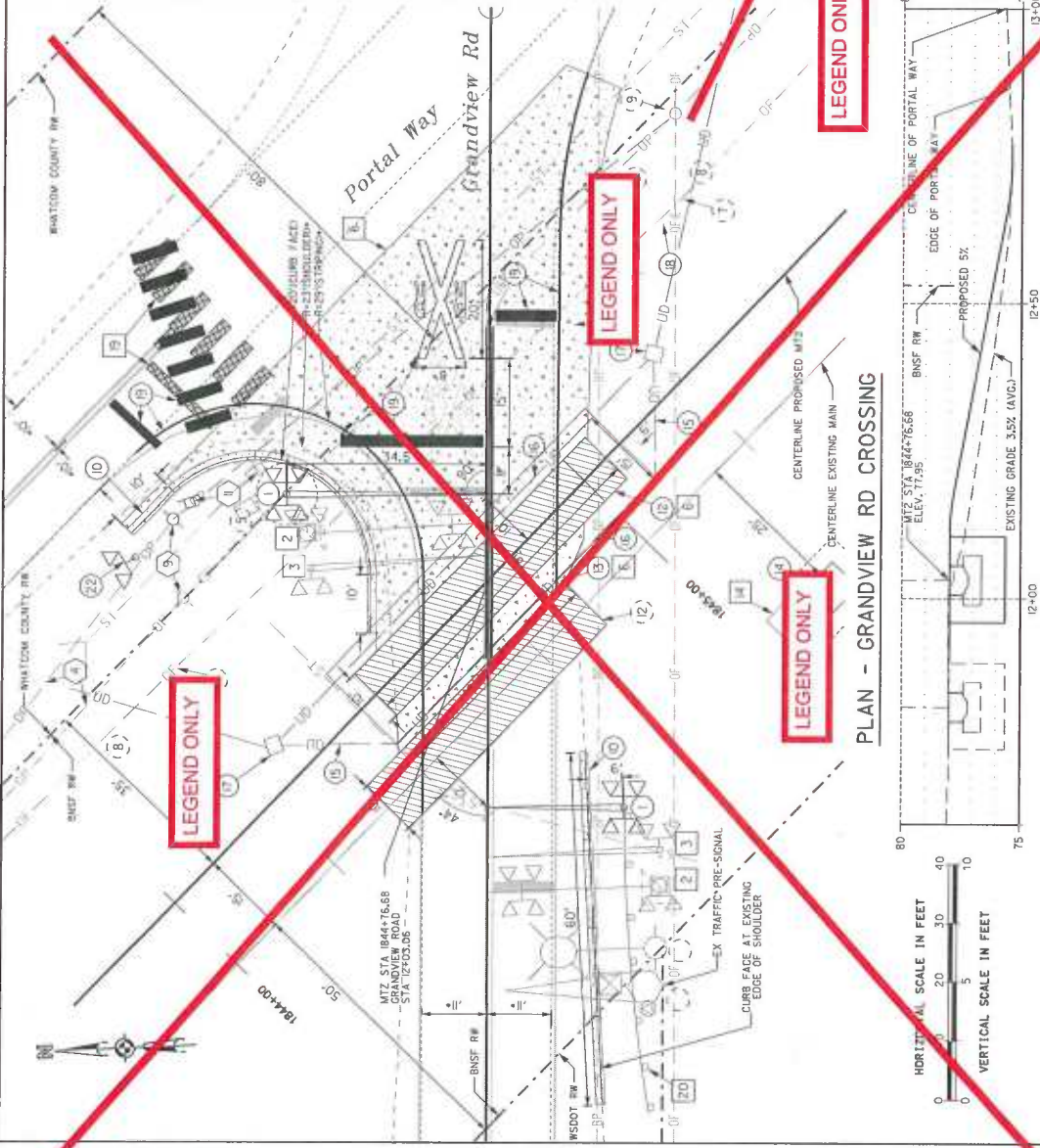
FINAL DESIGN FOR
CUSTER TO FERDALE
DOUBLE TRACK PROJECT
CUSTER, WA

BROWN ROAD (STATION 1082+36.91)

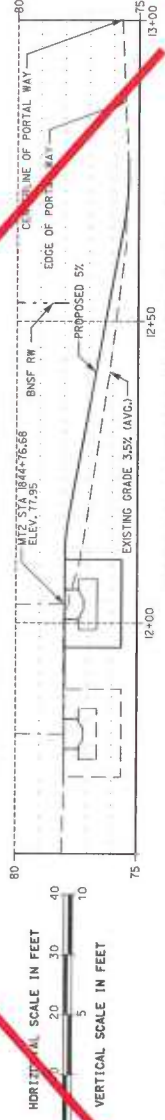
NOTES

- COORDINATE WITH BNSF RAILWAY TO BEGIN CONSTRUCTION OF THIS CROSSING.
- TRANSITION PAVEMENT AS NECESSARY TO MATCH EXISTING.
- REPLACE STRIPING/PAVEMENT EXISTING MARKINGS BY GRINDING.
- INSTALL RAILROAD GRADE PER WSDOT STD. PLAN NO. W-10-01.
- SIGNAL GATE WITH FLASHERS TO BE CALLED BY BNSF FORCES PER BNSF SIGNALING MANUAL BETWEEN CENTER AND NEAREST CURB FACE.
- APPROPRIATE FLASHING DOWNWARD POINTING ARROWS SHOULD BE PLACED 60' MIN. AWAY FROM CENTER OF ROADWAY TO DAUGHTER.
- 1" TO 6" DIA. UNDERDRAIN UNDERLAYS SHALL BE USED TO DRAIN WATER FROM CENTER OF ROADWAY TO DAUGHTER.
- INDICATES DIMENSIONS CALLED ON LOCATION PLAN.

NO.	CONSTRUCTION ITEM
1	GATE WITH FLASHERS (BY BNSF)
2	BNSF CANTILEVER WITH FLASHERS (BY BNSF)
3	BNSF SIGNAL GATE (BY BNSF)
4	OVERHEAD POWER (BY OTHERS)
5	ELECTRICAL VAULT
6	SAW CUT & REMOVE EXISTING PAVEMENT
7	FIBER OPTIC WARNING POST
8	FIBER OPTIC CABLE
9	POWER POLE (BY OTHERS)
10	6" TRAFFIC CURB PER WSDOT STD PLAN F-012
11	PEDESTRIAN CROSSING SIGNAL (BY OTHERS)
12	CONCRETE GRADE CROSSING PANEL (BY BNSF)
13	8" ASPHALT CONCRETE PAVEMENT
14	10X10 SIGNAL BUNGALOW WITH 3' CLEARANCE (BY BNSF)
15	TELEPHONE PEDISTAL
16	6" PERFORATED PVC SCHED 40 UNDERDRAIN
17	CATCH BASIN TYPE 1
18	6" PVC SCHED 40 DAYLIGHT TO DITCH
19	PAVEMENT STRIPING
20	GUARDRAIL (ON DMC GC04 PER BNSF STD D000003.000)
21	SIGNAGE RR-B "DO NOT STOP ON TRACKS" (SEE GC04)
22	PALE MOUNTED FLASHERS (BY BNSF)



PLAN - GRANDVIEW RD CROSSING



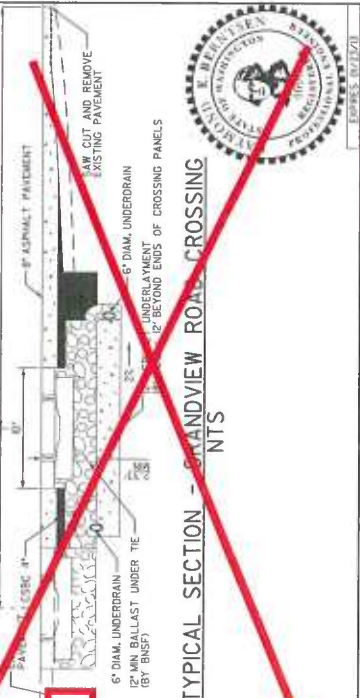
PROFILE - GRANDVIEW RD CROSSING

LEGEND ONLY

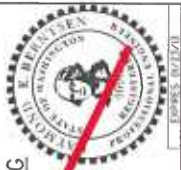
LEGEND ONLY

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TYPICAL SECTION - GRANDVIEW ROAD CROSSING



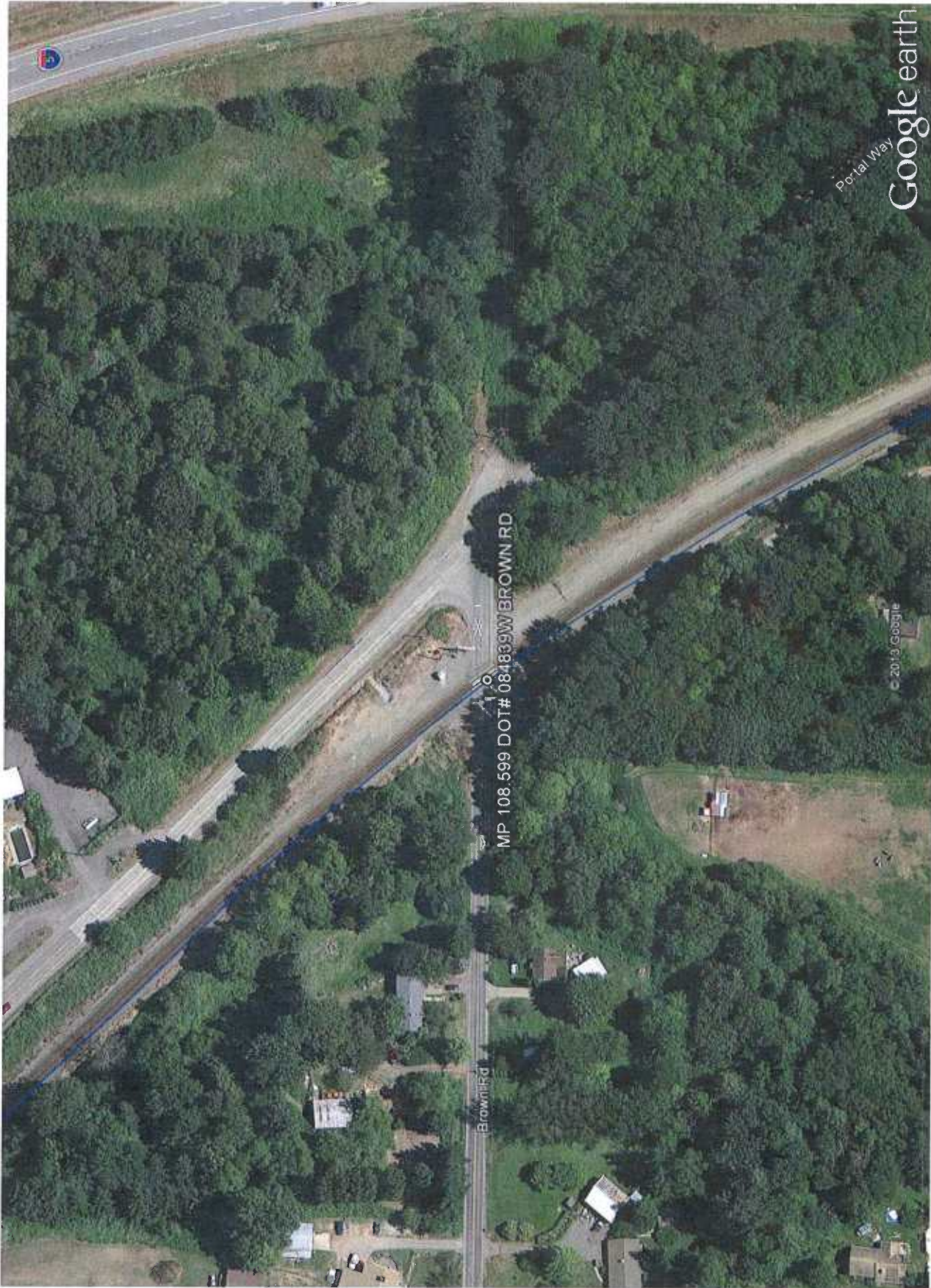
FINAL DESIGN FOR
 CUSTER TO FERDALE
 DOUBLE TRACK PROJECT
 CUSTER, WA
 GRANDVIEW ROAD



HNTB
 HNTB Corporation
 1000 1st Avenue, Suite 1000
 Seattle, WA 98101

CONSULTANT		DATE		ISSUE		BNSF APPROVALS	
DESIGNED BY	DATE	BY	DATE	DESCRIPTION	DEPARTMENT	SIGNATURE	DATE
R. E. BERNITSEN	1-15-12						
ENTERED BY	R. E. BERNITSEN						
CHECKED BY	J. M. McCULLOCH						
PROJ. MGR.	R. E. BERNITSEN						

100% SUBMITTAL - NOT FOR BID OR CONSTRUCTION



Portal Way
Google earth



Google Earth Pro

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