WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

City of Mount Vernon Petitioner, vs. **BNSF Railway Company** Respondent	DOCKET NO. TR- PETITION TO MODIFY WARNING DEVICES AT A HIGHWAY-RAILROAD GRADE CROSSING USDOT: **084758W**

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COMMISSION

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

Section 1 – Petitioner's Information

City of Mount Vernon
Petitioner

Signature

1024 Cleveland Avenue

Street Address

Mount Vernon, WA 98273

City, State and Zip Code

Mailing Address, if different than the street address

Esco Bell, Public Works Director

Contact Person Name & Signature

Phone: 360.336.6204 escob@mountvernonwa.gov

Contact Phone Number and Email Address

Section 2 – Respondent's Information

BNSF Railway Company

Respondent

2454 Occidental Ave S, Suite 2D

Street Address

Seattle, WA 98134

City, State and Zip Code

Mailing Address, if different than the street address

Stephen Semenick, Manager Public Projects – WA & B.C.

Contact Person Name

206.625.6152 Stephen.Semenick@BNSF.com

Contact Phone Number and Email Address

Section 3 – Crossing Location

1. Existing highway/roadway **4th St N / Riverside Dr**
2. Existing railroad **BNSF Railway Company**
3. USDOT Crossing No. **084758W**
4. GPS location **48.4302986 -122.3352959**
5. Railroad mile post (nearest tenth) **0068.829**
6. City **Mount Vernon** County **Skagit**

Section 4 – Vehicle Traffic

1. Name of highway **4th St N / Riverside Dr**

2. Road authority **City of Mount Vernon**

3. Average annual daily traffic (AADT) **17,338**

4. Number of lanes **5**

5. Roadway speed **30 MPH**

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

7. If so, trucks are what percent of total daily traffic? **5%**

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

9. If so, how many school buses travel over the crossing each day? **40**

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

AADT can be expected to increase 1% a year for the next ten years.

Section 5 – Current Crossing Information

1. Railroad company **BNSF Railway Company**

2. Type of railroad at crossing □ Common Carrier □ Logging □ Industrial

X Passenger □ Excursion

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

4. Number of tracks at crossing **Two (2) total: (1) Main, (1) Siding**

5. Average daily train traffic, freight **9**

Authorized freight train speed **50 MPH** Operated freight train speed **50 MPH**

6. Average daily train traffic, passenger **8**

Authorized passenger train speed **50 MPH** Operated passenger train speed **50 MPH**

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

None known.

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?

Stopping Sight Distance: Stop NE to NE 200 feet, Stop NE to SW 350 feet, Stop SE to NE 500 feet, and Stop SW to SW 500 feet.

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.

Crossing Angle of 60 degrees and track curvature to the south.

Section 6 – Current Warning Devices

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

(2) Crossbuck Assemblies

(1) W10-1 Advanced Warning Signs

(2) RR Xing Symbol Pavement Markings

(2) Cantilevered Flashing Lights

(2) Mast Mounted Flashing Lights

(2) Roadway Gate Arms

(1) Bell

Train Detection DC

Track Signaled

Section 7 – Description of Proposed Changes

Describe in detail the number and type of proposed automatic signals (vehicle and pedestrian), gates or other warning devices, including proposed circuitry. Please describe all other proposed changes at the crossing, including changes to the crossing surface, signage, pavement markings, etc. If sidewalks are being installed, please provide information on who will maintain them. (Attach additional information sheets, if needed.)

Two (2) New Automatic Pedestrian signals with gates behind the sidewalk. Constructed and maintained by BNSF.

One (1) new Automatic mast flasher signal. Constructed and maintained by BNSF.

One (1) New Pedestrian Warning Bell on Existing Cantilever. Constructed and maintained by BNSF.

Replace all existing warning signal lamps with LED type lights at existing cantilever, at (2) gate crossing arms, and gate masts. Constructed and maintained by BNSF.

Replace One (1) existing Bungalow with wayside horn interface panel. Constructed and maintained by BNSF.

Replace existing mainline and spur railroad crossing surfaces with new concrete panels with ADA compliant flangeways. Constructed and maintained by BNSF.

Remove existing utility pole obstructing a sidewalk, ~~by BNSF~~. SS 5/24/19

Supplemental Wayside Horn Warning System, dual mount, connecting conduit, wire, junction boxes, and wire to Bungalow termination at Bungalow. Constructed and maintained by City.

New sidewalk on west side, sidewalk widening/realignment to reduce skew angles of crossing track and increasing visibility. Constructed and maintained by City.

10 new or upgraded ADA ramps. Constructed and maintained by City.

Regrade and pave roadway at rail crossing improving vertical curve. Constructed and maintained by City.

New pavement markings, channelization, and signing. Constructed and maintained by City.

New pedestrian fencing on east side south of mainline crossing for fall protection. Constructed and maintained by City.

Section 8 – Illustration of Proposed Warning Devices

Attach a detailed design diagram, drawing, map or other illustration showing all proposed modifications, including signals, signage, pavement markings, sidewalks, etc.

1. Attached EXHIBIT A: BNSF Signal crossing improvements
2. Attached EXHIBIT B: Roadway, sidewalk, ADA ramps, Wayside horn system, pavement markings, signage, and track crossing surfaces.

Section 9 – 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. **084758W**

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 modified and consent to a decision by the commission without a hearing.

Dated at Seattle, Washington, on the 29th day of May, 2019.

Stephen Semenick
Printed name of Respondent

Signature of Respondent's Representative

Manager of Public Projects
Title

206.625.6152 Stephen.Semenick@BNSF.com
Phone number and e-mail address

2454 Occidental Ave S, Suite 2D

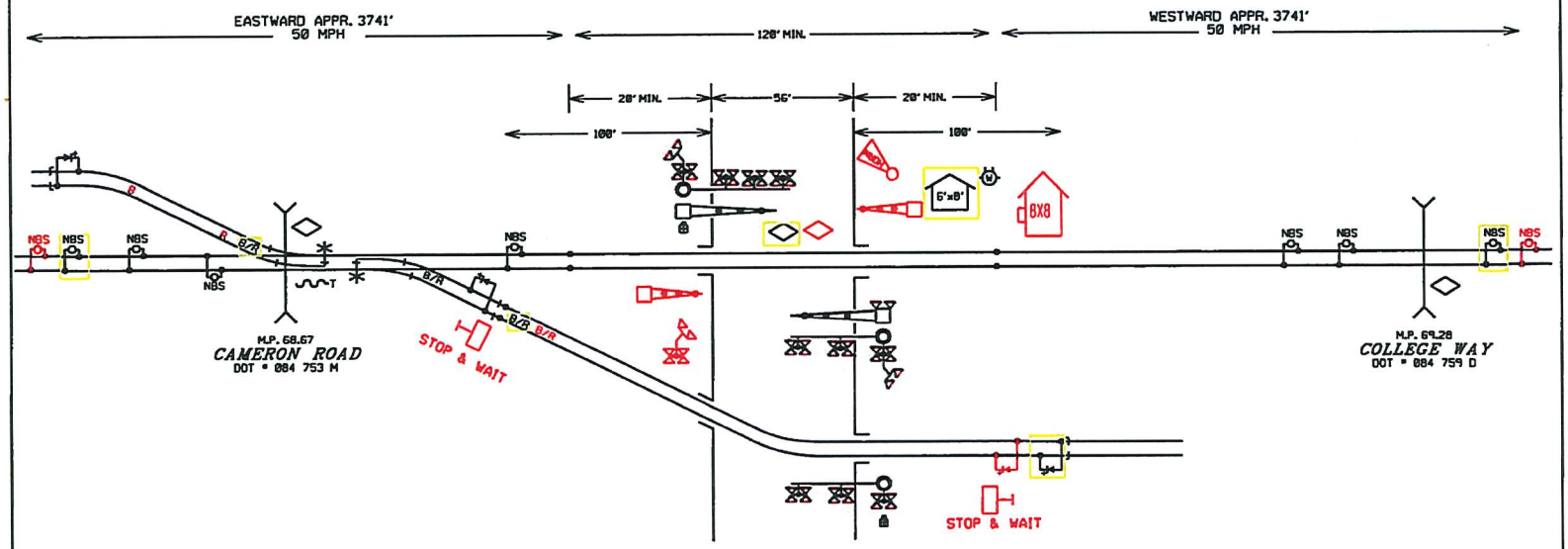
Seattle, WA 98134
Mailing address

The Burlington Northern & Santa Fe Railway Company

TO PA JUNCTION

TO US CANADA BORDER

EXHIBIT A: BNSF Signal crossing improvements



REPLACE:LEDS
CONTROL DEVICES: CONSTANT WARNING
SALVAGE: NONE
RED = IN YELLOW = OUT

M.P. 68.83
4TH ST AND RIVERSIDE DR
DOT # 084758W

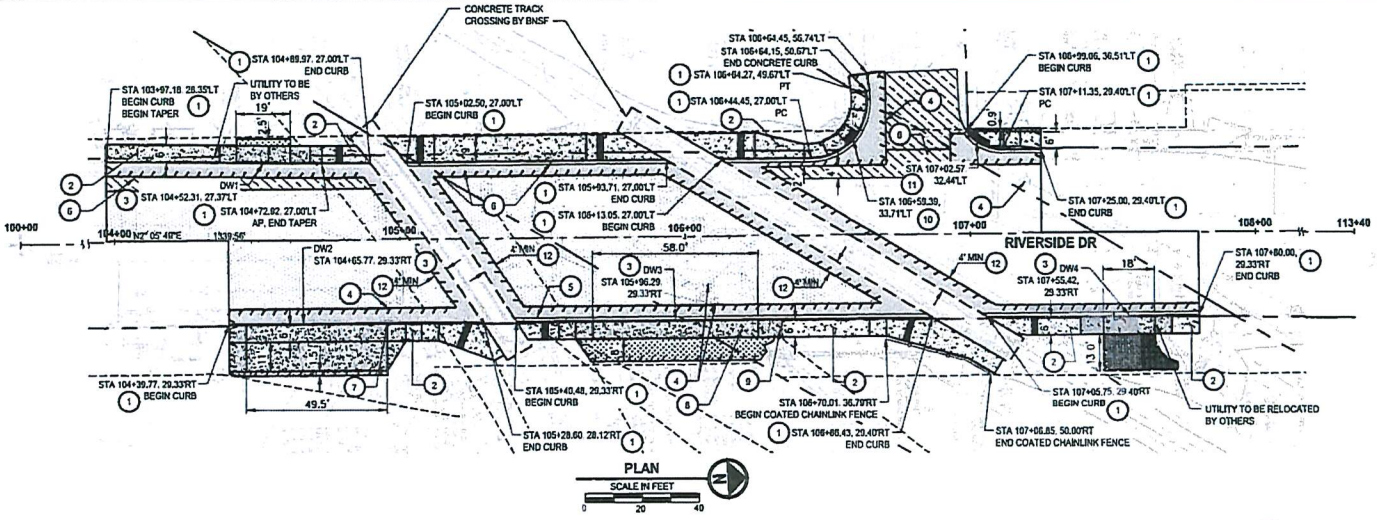
PROJECT# 70502

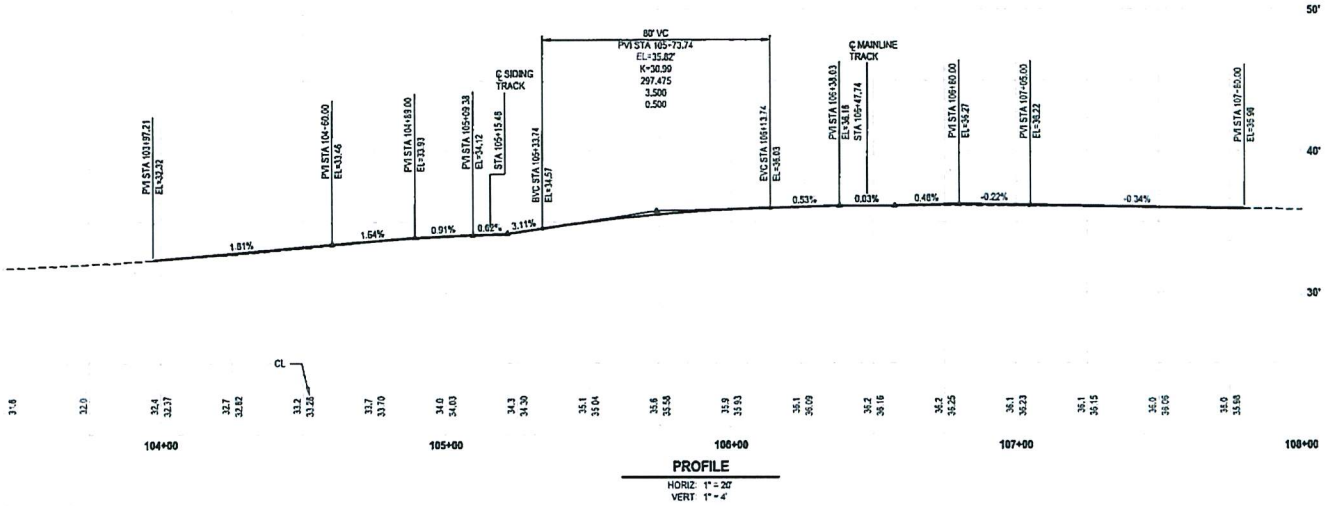
8X8	INSTRUMENT HOUSE
	BELL
M	METER
	CROSSING CONTROLL CONNECTIONS
	BIDIRECTIONAL CROSSING CONTROL
	UNIDIRECTIONAL CROSSING CONTROL
	COUPLER OR TERMINATION
	GUARD RAIL

Warning device placement:
Clearance to C.L. Track = Min. 12'
Edge of Road to C.L. Foundation:
Min. 4'3" with curb.
Min. 8'3" without curb.
Max. 12'
House Clearance: 25' Min. to Near Rail
30' Min. to Edge of Road
ALL LIGHTS TO BE LED

BNSF RAILWAY CO.
LOCATION: MOUNT VERNON WA
STREET: 4TH ST AND RIVERSIDE DR
LS: 50
M.P. 68.83
DOT # 084758W
DIVISION: NORTHWEST
SUBDIVISION: BELLINGHAM
NO SCALE
DATE: 02/04/19
FILE: 70502-StateSketch.dgn
AMW

EXHIBIT B: Roadway, sidewalk, ADA ramps, Wayside horn system, pavement markings, signage, and track crossing surfaces.





ROADWAY NOTES:

1. CEMENT CONC. TRAFFIC CURB AND GUTTER. PER WSDOT STD PLAN F-10.12-03
2. CEMENT CONC. SIDEWALK, PER WSDOT STD PLAN F-30.10-03
3. CEMENT CONC. DRIVEWAY ENTRANCE TYPE 1, PER WSDOT STD PLAN F-80.10-04. SEE DRAWING DW-1 FOR DRIVEWAY PROFILES
4. ADJUST MANHOLE PER CITY OF MOUNT VERNON STANDARD DETAIL 3-4
5. ADJUST CATCH BASIN PER CITY OF MOUNT VERNON STANDARD DETAIL 3-4
6. ADJUST WATER VALVE BOX PER SKAGIT PUD STANDARD PLAN WV-1A AND WV-1B
7. ADJUST COMBINATION INLET WITH NEW FRAME, HOOD AND GRATE PER WSDOT STD PLANS B-25.20-02 AND B30.30-03.
8. ADJUST MANHOLE WITH RING AND SLIP-RESISTANT COVER SEE SPECIAL PROVISION 7-05.
9. ADJUST WATER METER BOX WITH NEW PUD PROVIDED BOX AND LID. CONTACT PUD WAREHOUSE PERSONNEL AT (360) 848-4431 TO COORDINATE PICKING UP PUD PROVIDED MATERIALS. SEE SPECIAL PROVISION 7-15.
10. CEMENT CONC. CURB RAMP TYPE PARALLEL A, PER WSDOT STD PLAN F-40.12-03 AND DETAIL ON SHEET CR-1.
11. CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION A, PER WSDOT STD PLAN F-40.16-03 AND DETAIL ON SHEET CR-1.
12. ADJUST SAWCUT LOCATION AS NECESARY. AND APPROVED BY ENGINEER, TO INCREASE LIMITS OF FULL DEPTH PAVMENT SECTION TO 0.5' BEYOND PATCH CONSTRUCTED BY BNSF DURING TRACK WORK.

GENERAL NOTES:

1. ALL CALLOUTS ARE TO FLOWLINE OF CURB
2. SEE DEMOLITION PLANS FOR SAWCUT/PAVING LIMITS

ROADWAY LEGEND:

- GRIND 2" AND OVERLAY (2" MIN.) (PLANING BITUMINOUS PAVEMENT & HMA CL. ½" PG 64-22)
- VARIABLE DEPTH GRIND (0.5"-2.0") AND OVERLAY (2" MIN.) (PLANING BITUMINOUS PAVEMENT & HMA CL. ½" PG 64-22)
- CEMENT CONC. SIDEWALK
- CEMENT CONC. DRIVEWAY ENTRANCE
- FULL DEPTH PAVEMENT SECTION (HMA CL. ½" PG 64-22 OVER CSTC)
- HMA DRIVEWAY APPROACH 2" HMA FOR PRELEVEL CL. ½" PG 64-22 OVER 3" CSTC)
- GRAVEL DRIVEWAY (6" CSTC)
- SAWCUT
- COATED CHAIN LINK FENCE TYPE 4 PER WSDOT STANDARD PLAN L-20.10-03.

FED AID NO: RAIL-7323 (005)

BURIED UTILITIES IN AREA PLEASE CALL BEFORE YOU DIG 811

No.	Date	Revision

	BY:	DATE:
Designed	ES	1/7/19
Reviewed	CS	1/7/19
Approved	AF	1/7/19

SCALE: 1" = 20' H
ONE INCH AT FULL SCALE
(IF NOT, SCALE ACCORDINGLY)

2-11-19

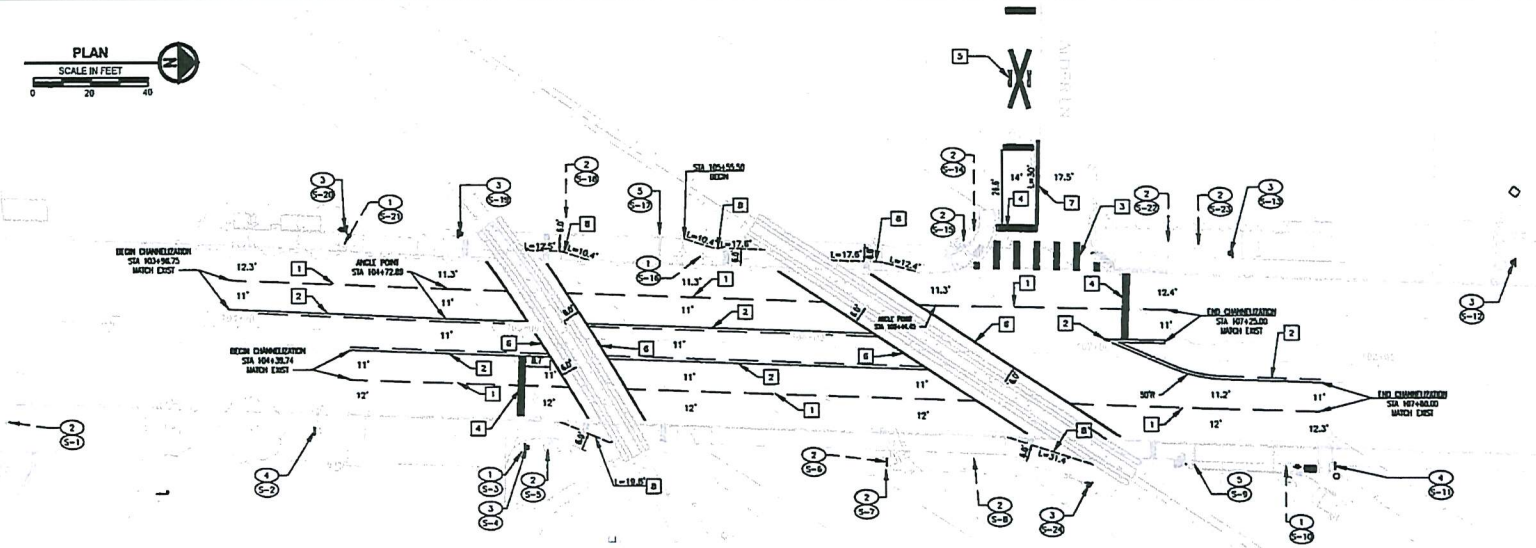
City of MOUNT VERNON

PH CONSULTING LLC
Balanced Transportation Solutions
www.phtraffic.com
Parametrix

4TH ST N / RIVERSIDE DR
CITY OF MOUNT VERNON
BID SET
PLAN AND PROFILE

PROJECT NO.	TS-2018-015
CONTRACT NO.	##-###
DRAWING NO.	RD1
SHEET	7 OF 19

EXHIBIT B: Roadway, sidewalk, ADA ramps, Wayside horn system, pavement markings, signage, and track crossing surfaces.



LEGEND

SYMBOL EXIST.	SYMBOL PROP.	DESCRIPTION
	1	CHANNELIZATION CONSTRUCTION NOTE
	1	SIGNING CONSTRUCTION NOTE
	S-1	SIGN NOTE NUMBER
	1	CONSTRUCTION NOTE
		EXISTING
		NEW
		STOP BAR
		CROSSWALK
		SIGN
		UTILITY POLE
		CENTERLINE
		EDGE LINE
		RIGHT-OF-WAY/PROPERTY LINE
		EASEMENT
		PAVEMENT
		UTILITY POLE WITH LIGHT
		STREET LIGHT
		CANTILEVER
		RAILROAD ARM
		WAYSIDE HORN
		TURN ARROW
		DOUBLE YELLOW CENTERLINE (4")
		SKIP LINE (YELLOW)
		NO PASSING LINE (YELLOW - 4")
		MEDIAN (YELLOW - 4")

SIGNING SCHEDULE:

SIGN NO	SIGN CODE	CONST. NOTE	SIGN DESCRIPTION	STA.	OFFSET	COLOR	SIGN SIZE	COMMENTS
S-1	W10-1	4	RAIL CROSSING WARNING	EXISTING	EXISTING	-	36" X 36"	EXISTING
G-2	W10-12	4	SKEWED CROSSING	EXISTING	EXISTING	YELLOW/BLACK	36" X 36"	NEW. MOUNT TO ST. LIGHT
S-3	SPECIAL	1	BICYCLES USE CAUTION	EXISTING	EXISTING			EXISTING. REMOVE
S-4	W10-12	3	SKEWED CROSSING	105+22.74	30.23' RT	YELLOW/BLACK	18" X 18"	NEW
S-5	R15-1, R15-2P	2	CROSSBUCK & 2 TRACKS	EXISTING	EXISTING	-	-	EXISTING
S-6	R15-1	2	CROSSBUCK	EXISTING	EXISTING			EXISTING
S-7	D1-1 M6-1	2	KULSHAN TRAIL & ARROW	EXISTING	EXISTING	-	-	EXISTING
S-8	D1-1 M6-1	2	KULSHAN TRAIL & ARROW	EXISTING	EXISTING	-	-	EXISTING
S-9	R15-1	3	CROSSBUCK	107+30.66	41'3" LT	WHITE/BLACK	48" X 9"	NEW - BY BNSF
S-10	SPECIAL	1	BICYCLES USE CAUTION	EXISTING	EXISTING	-	-	EXISTING REMOVE
S-11	W10-12	4	SKEWED CROSSING	107+80.10	RT 36.01'	YELLOW/BLACK	18" X 18"	NEW. MOUNT TO ST. LIGHT
S-12	W10-1	3	RAIL CROSSING WARNING	105+46.03	LT 37.94'	YELLOW/BLACK	36" X 36"	NEW
S-13	W10-12	3	SKEWED CROSSING	107+49.55	LT 37.81'	YELLOW/BLACK	36" X 36"	NEW
S-14	D1-1, D3-1	3	STOP & (2) ST NAME SIGNS	EXISTING	EXISTING	-	-	EXISTING
S-15	R15-1, R15-2P	2	CROSSBUCK & 2 TRACKS	EXISTING	EXISTING	-	-	EXISTING
S-16	W10-1	1	RAIL CROSSING WARNING	EXISTING	EXISTING			EXISTING. REMOVE
S-17	R15-1	5	CROSSBUCK	105+46.06	LT 37.79'	WHITE/BLACK	48" X 9"	NEW - BY BNSF
S-18	SPECIAL	2	"END" "HEX"	EXISTING	EXISTING	BLUE/WHITE	-	EXISTING
S-19	W10-12	3	SKEWED CROSSING	104+76.82	LT 35.61'	YELLOW/BLACK	18" X 18"	NEW
S-20	D9-2, M5-1(L)	3	HOSPITAL & ARROW	104+36.36	LT 30.58'	BLUE/WHITE	24" X 24", 21" X 15"	NEW
S-21	D9-2, M5-1(L)	1	HOSPITAL & ARROW	EXISTING	EXISTING			EXISTING. REMOVE
S-22	SPECIAL	2	"CONFLICTS MUFFLER SHOP"	EXISTING	EXISTING	-	-	EXISTING
S-23	SPECIAL	2	"MT. VERNON TIRE FACTORY"	EXISTING	EXISTING	-	-	EXISTING
S-24	OM-4-2	3	OBJECT MARKER	107+00.00	45.77' RT	BLACK/RED	24" X 24"	NEW

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH BNSF ROADMASTER.
2. BNSF FLAGGER REQUIRED FOR WORK WITHIN BNSF RIGHT OF WAY.
3. ENGINEER TO FIELD VERIFY ALL SIGN LOCATIONS PRIOR TO INSTALLATION.
4. ALL NEW SIGNS SHALL BE INSTALLED IN EXISTING RIGHT OF WAY OR EASEMENT.
5. ENGINEER TO FIELD VERIFY CHANNELIZATION LIMITS PRIOR TO INSTALLATION.
6. CONTRACTOR SHALL REMOVE ALL CONFLICTING PAVEMENT MARKINGS.
7. STATION AND OFFSET ARE BASED ON RIVERSIDE DRIVE CONSTRUCTION CENTERLINE ALIGNMENT.
8. LANE WIDTHS SHOWN ARE MEASURED FROM CURB FACES TO CENTER OF PAINT/PLASTIC LINE OR BETWEEN CENTERS OF PAINT/PLASTIC LINES AS APPLICABLE.

CHANNELIZATION NOTES:

1. RAISED PAVEMENT MARKER LANE LINE PER WSDOT STANDARD PLAN M-20.50-02.
2. PAINT TWO WAY LEFT TURN CENTERLINE WITH RPMS PER WSDOT STANDARD PLANS M-20.10-02 AND M-20.40-03.
3. PLASTIC CROSSWALK LINE: INSTALL AND CENTER AT ADA RAMP PER WSDOT STANDARD PLAN M-15.10-01.
4. PLASTIC STOP LINE (24") PER WSDOT STANDARD PLAN M-24.60-04.
5. PLASTIC RAILROAD CROSSING SYMBOL PER WSDOT STANDARD PLAN M-11.10-02.
6. PLASTIC SOLID LANE LINE PER WSDOT STANDARD PLAN M-20.10-02.
7. PAINT DOUBLE CENTERLINE PER WSDOT STANDARD PLAN M-20.10-02.
8. PLASTIC DOTTED LANE LINE PER WSDOT STANDARD PLAN M-20.10-02. ONE FOOT CAPS. COLOR BLUE.

SIGNING CONSTRUCTION NOTES:

1. REMOVE TRAFFIC SIGN AND POST: SALVAGE AND DELIVER TO CITY OF MOUNT VERNON PUBLIC WORKS ADDRESS: 1024 CLEVELAND AVENUE MOUNT VERNON, WA 98273 PHONE: (360) 336-6204.
2. PROTECT TRAFFIC SIGN: EXISTING SIGN TO REMAIN.
3. TRAFFIC SIGN: INSTALL NEW SIGN AND POST PER CITY OF MOUNT VERNON STANDARD DETAILS 3-8 AND 3-9.
4. TRAFFIC SIGN: INSTALL NEW SIGN ON EXISTING LIGHT STANDARD PER WSDOT STANDARD PLAN C-30.10-04.
5. TRAFFIC SIGN: BY BNSF.

FED AID NO RAIL-7323 (005)

BURIED UTILITIES IN AREA PLEASE CALL BEFORE YOU DIG 811

No.	Date	Revision

	BY:	DATE:
Designed	PP	3/29/2019
Reviewed	MZ	3/29/2019
Approved	PP	3/29/2019

SCALE: 1" = 20' H
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(IF NOT, SCALE ACCORDINGLY)

PH CONSULTING LLC
Balanced Transportation Solutions
www.phtraffic.com

4TH ST N / RIVERSIDE DR
CITY OF MOUNT VERNON
BID SET

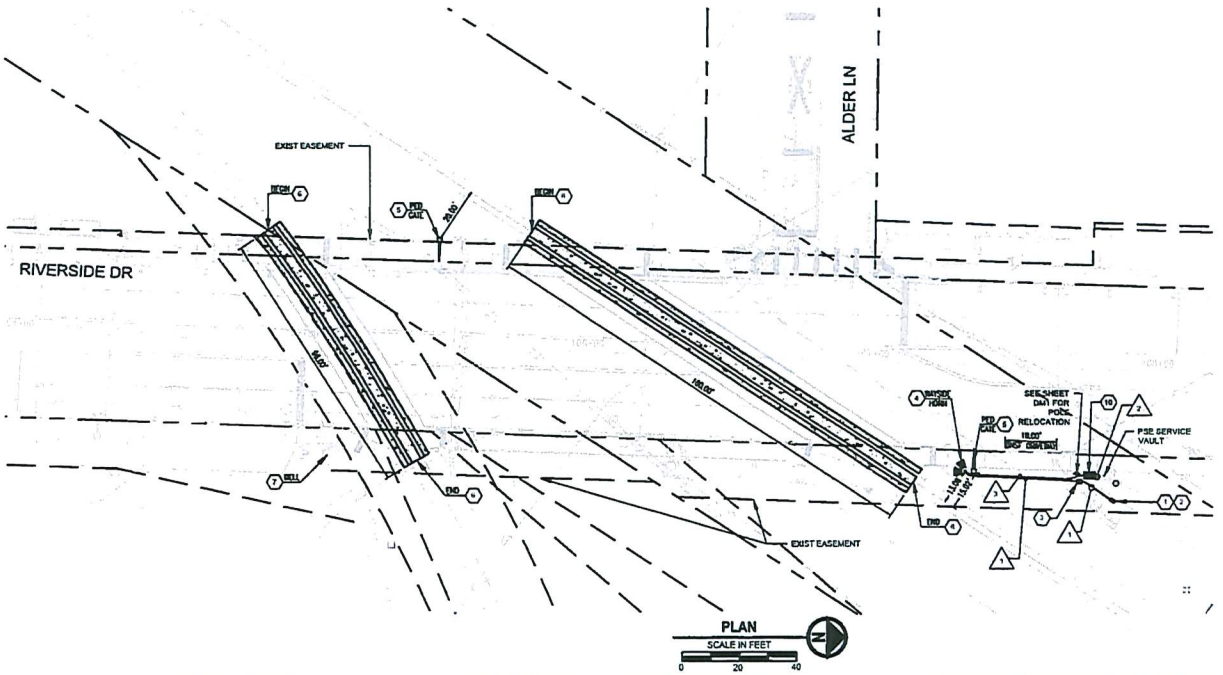
CHANNELIZATION, SIGNING, & PAVEMENT MARKINGS

PROJECT NO.	TS-2018-015
CONTRACT NO.	##-##
DRAWING NO.	CH1
SHEET	13 OF 19

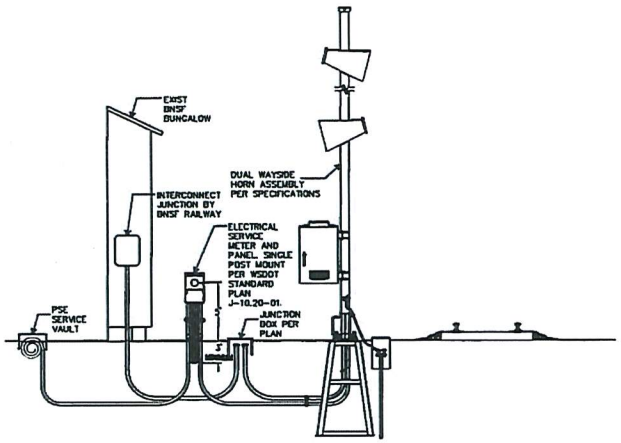
EXHIBIT B: Roadway, sidewalk, ADA ramps, Wayside horn system, pavement markings, signage, and track crossing surfaces.

LEGEND

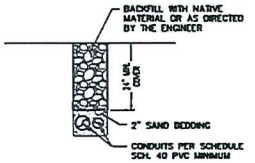
SYMBOL EXIST.	PROP.	DESCRIPTION
	△1	WIRE NOTE
	⬡1	CONSTRUCTION NOTE
— —		EXISTING
	———	NEW
	▭	TYPE 1 JUNCTION BOX
	▭	TYPE 2 JUNCTION BOX
	⊠	ELECTRIC SERVICE CABINET
	———	CONDUITS
		UTILITY POLE
		UTILITY POLE WITH LIGHT
		STREET LIGHT
		CANTILEVER
		RAILROAD ARM
	◀	WAYSIDE HORN
		TURN ARROW
	———	CENTERLINE
	———	EDGE LINE
		RIGHT-OF-WAY/PROPERTY LINE
		PAVEMENT



PLAN
SCALE IN FEET
0 20 40



WAYSIDE HORN ASSEMBLY
NOT TO SCALE



WIRE SCHEDULE:

CONDUIT / WIRING SCHEDULE						
RUN	CONDUIT SIZE	RR INTERCONNECT 10C	POWER #2	SERVICE #6	GROUND	NOTES
A						
1	2" PVC SCH 40	1			1	
2	2" PVC SCH 40		2		1	
3	2" PVC SCH 40			2	1	

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH BNSF ROADMASTER.
2. BNSF FLAGGER REQUIRED FOR WORK WITHIN BNSF RIGHT OF WAY.

CONSTRUCTION NOTES:

(2) CONNECT CONDUIT TO BUNGALOW INTERCONNECT PANEL PER BNSF REQUIREMENTS.
(3) JUNCTION BOX PER PLAN AND WSDOT STANDARD PLAN J-40.10-04.
(4) WAYSIDE HORN ASSEMBLY PER DETAIL 1 HEREON, WIRE SCHEDULE, AND SPECIFICATIONS. LOCATION TO BE FIELD APPROVED BY ENGINEER.
(10) METERED POWER SERVICE WITH BREAKER PANEL, SINGLE TIMBER POST MOUNTED PER WSDOT STD PLAN J-10.20-1. COORDINATE SERVICE FEED WITH PSE. LOCATION TO BE FIELD APPROVED BY ENGINEER.

BNSF RAILWAY CONSTRUCTION NOTES:

(1) NEW SIGNAL INTERCONNECT PANEL (BY BNSF RAILWAY).
(5) NEW PEDESTRIAN GATE BEHIND SIDEWALK (BY BNSF RAILWAY).
(6) NEW CONCRETE RAILROAD PANELS WITH ADA COMPLIANT FLANGEWAYS. (BY BNSF RAILWAY).
(7) NEW PEDESTRIAN WARNING BELL ON EXISTING CANTILEVER. (BY BNSF RAILWAY).
(8) REPLACE EXISTING RAIL SIGNAL LAMPS WITH LED TYPE LIGHTS AT EXISTING CANTILEVER, GATE ARMS, AND GATE MASTS. (BY BNSF RAILWAY).

FED AID NO: RAIL-7323 (005)

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	BY:	DATE:
Designed	PP	3/29/2019
Reviewed	MZ	3/29/2019
Approved	PP	3/29/2019

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(IF NOT, SCALE ACCORDINGLY)

3/27/19

City of MOUNT VERNON

PH CONSULTING LLC
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www.phtraffic.com

4TH ST N / RIVERSIDE DR
CITY OF MOUNT VERNON
BID SET
GRADE CROSSING IMPROVEMENT PLAN

PROJECT NO. TS-2018-015
CONTRACT NO. ##-###
DRAWING NO. RR1
SHEET 14 OF 19