


WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

City of Stevenson)	DOCKET NO. TR-151762
_____)	
Petitioner,)	PETITION TO MODIFY HIGHWAY-
)	RAIL GRADE CROSSING ACTIVE
)	WARNING DEVICES
vs.)	
Burlington Northern & Santa Fe Railway)	
_____)	
Respondent)	USDOT # 090 148 C
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 STATE OF WASH
 UTIL. AND TRANSP
 COMMISSION

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 Stevenson
Petitioner

Signature
7121 E. Loop Road
Street Address
Stevenson, WA 98648
City, State and Zip Code
PO Box 317
Mailing Address, if different than the street address
Eric Hansen, Public Works Director
Contact Person Name
509-427-5970 eric@ci.stevenson.wa.us
Contact Phone Number and E-mail Address

Posted
 Cases
 email


Section 2 – Respondent's Information

Burlington Northern & Santa Fe Railway Company
Respondent
2454 Occidental Avenue So, Ste 2D
Street Address
Seattle, WA 98134
City, State and Zip Code
Same
Mailing Address, if different than the street address
Richard Wagner
Contact Person Name
206-625-6152 Richard.wagner@bnsf.com
Contact Phone Number and E-mail Address

Section 3 – Crossing Location

1. Existing highway/roadway <u>Russell Ave (intersection w/ Cascade Ave)</u>
2. Existing railroad <u>BNSF</u>
3. USDOT Crossing No. <u>090 148 C</u>
4. Located in the <u>NE</u> 1/4 of the <u>NE</u> 1/4 of Sec. <u>1</u> , Twp, <u>2N</u> , Range <u>7E</u> W.M.
5. GPS location, if known <u>45.6674598, -121.9564600</u>
6. Railroad mile post (nearest tenth) <u>53.89</u>
7. City <u>Stevenson</u> County <u>Skamania</u>

Section 4 – Current Highway Traffic Information

1. Name of highway Russell Ave

2. Road authority City of Stevenson

3. Average annual daily traffic (AADT) 361

4. Number of lanes 2

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? _____

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? _____

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

Section 5 – Current Crossing Information

1. Railroad company Burlington Northern & Santa Fe Railway Co.

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

3. Type of tracks at crossing 1 Main Line 2 Siding or Spur

4. Number of tracks at crossing 3

5. Average daily train traffic, freight 40

 Authorized freight train speed 60 Operated freight train speed 20

6. Average daily train traffic, passenger 4

 Authorized passenger train speed 60 Operated passenger train speed 20

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

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?

 >500' (refer to Drawing No. R-3)

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.

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.

Cantilever w/ flashing lights and signal gate arm at entries. Painted RR crossing symbol on road.

Train detection DC/AFO.

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.

New flashing light signal gate arms as quad gates. Installation of 4 gates at each entry and exit

points. Removal of old gate arms and cantilever flashing lights. New vehicle detection loops, relay,

DC/AFO constant warning train detection is present on mainline track. New thermoplastic RR crossing symbols and stop lines. New advanced RR street

signage (W10-1, W10-3, W10-4). Crossing road surface will be raised to minimize the current grade break for vehicular traffic. New concrete sidewalks will be 8'0" in width. New track flange

filler will be installed between sidewalk panels and the rail track for ADA. Pedestrian tactile

strips will be placed on the sidewalk a minimum 6' to maximum 15' from outer most track (per

WSDOT St. plan F-45.10-01). The proposed flashing light signal will possess LED lenses and

include 2 pedestrian bells, one on each side. Road, curb, and sidewalks will be maintained by City. Signal and gate arms, rail tracks, and track panels will be maintained by BNSF.

The proposed 8'-0" sidewalk is offset 6'-6" from the existing rail crossing. The existing rail

crossing 48'-4" in width. Redevelopment of the existing road lanes is proposed to be 12'-0"

lanes for a total of width of 30'-0". Concrete curbs and lane striping will delineate traffic lanes.

No fencing will be installed. New sidewalks will be constructed with a vegetative barrier to

Encourage use of sidewalks.

Section 7 – Illustration of Proposed Warning Devices

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

Reference attached.

Section 8 – Waiver of Hearing by Respondent

Waiver of Hearing

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

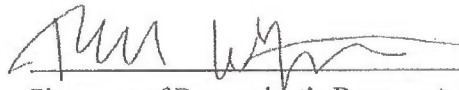
USDOT Crossing No. 090 148 C

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 25th day of August,
2015

Richard Wagner

Printed name of Respondent



Signature of Respondent's Representative

Manager Public Projects NW Division, ID, WA & BC

Title

Richard.Wagner@BNSF.com, 206.625.6152

Phone number and e-mail address

2454 Occidental Ave South Ste 2D

Seattle, WA 98134

Mailing address

CITY OF STEVENSON

BNSF RAIL QUAD GATES



LOCATION MAP
NOT TO SCALE



SITE MAP
NOT TO SCALE

INDEX OF DRAWINGS

DRAWING TITLE	SHEET NO.	DRAWING NO.
COVER SHEET, VICINITY MAP, AND DRAWING INDEX	1	R-1
EXISTING RAIL CROSSING AND DEMOLITION PLAN	2	R-2
PROPOSED RAIL AND PEDESTRIAN CROSSING PLAN	3	R-3
RUSSELL AVE PLAN AND PROFILE	4	R-4
RUSSELL AVE GRADING PLAN	5	R-5
RUSSELL AVE EASEMENT PLAN	6	R-6
RUSSELL AVE QUAD GATE DETAILS	7	R-7

TRAFFIC SIGNAL RAILROAD PREEMPTION

- EXIT GATE CLEARANCE TIME (EECT) = 27.0 SECONDS
- CLEARANCE TIME (EECT) = 139 FEET
- CLEARANCE RANGE = 139 FEET
- AVG ROAD GRADE = +4.3%
- DESIGN VEHICLE ACCELERATION RATE = 0.3577T/S²

MARK	REVISION DESCRIPTION	BY	APP.	DATE

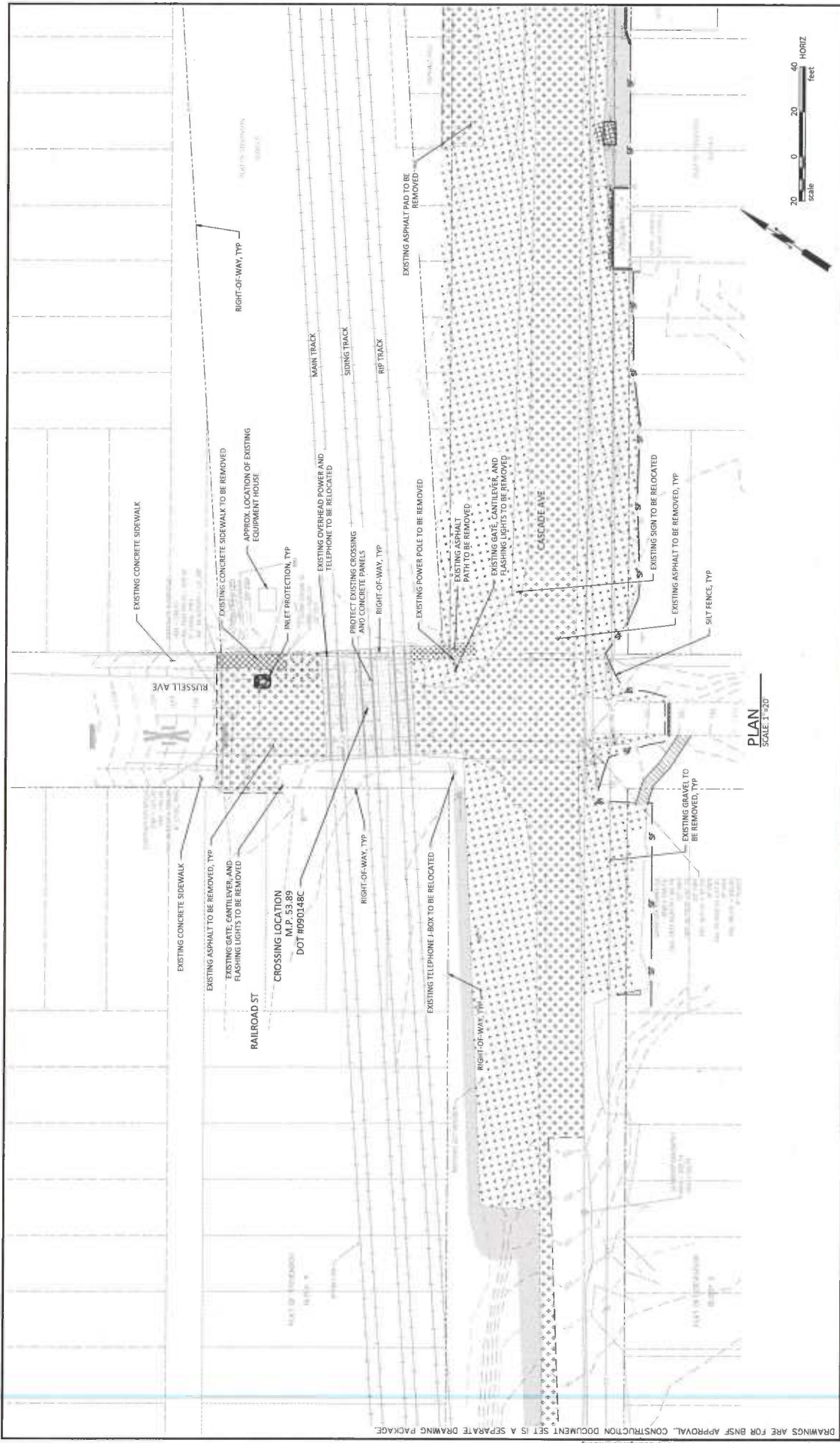
BergerABAM
 700 NE Multnomah Street, Suite 900
 Portland, Oregon 97232-4188
 (503) 872-4100 FAX: (503) 872-4101



DRAWN BY JRB
 DESIGN BY JRB
 CHECK BY TRW
 PROJ. MGR SLR

CITY OF STEVENSON
BNSF RAIL QUAD GATES
 COVER SHEET, VICINITY MAP, AND DRAWING INDEX

DRAWING NO. **R-1**
 PROJECT NO. A14.0274
 DATE: 3/23/15
 SHEET NO. 1 OF 7



PLAN
SCALE: 1"=20'

DRAWINGS ARE FOR BNSF APPROVAL. CONSTRUCTION DOCUMENT SET IS A SEPARATE DRAWING PACKAGE.

DRAWING NO. **R-2**
 PROJECT NO. **A14.0274**
 DATE: **3/23/15**
 SHEET NO. **2 OF 7**

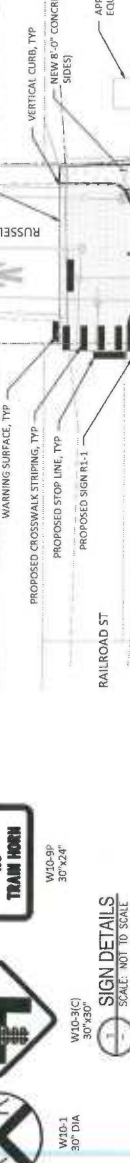
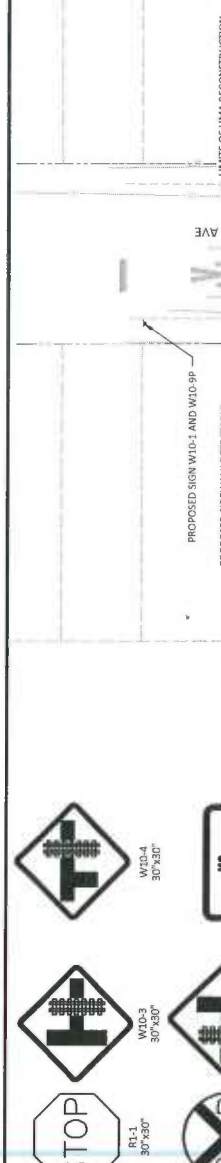
CITY OF STEVENSON
BNSF RAIL QUAD GATES
EXISTING RAIL CROSSING AND DEMOLITION PLAN

DRAWN BY JRB
 DESIGN BY JRB
 CHECK BY ITRW
 PROJ. MGR SIR



Berger ABAM
 700 NE Multnomah Street, Suite 900
 Portland, Oregon 97232-4189
 (503) 872-4100 FAX: (503) 872-4101

MARK	REVISION DESCRIPTION	BY	APP.	DATE

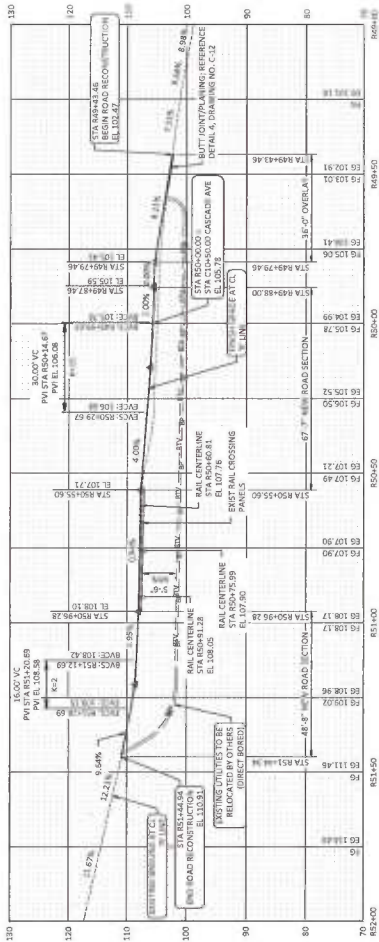
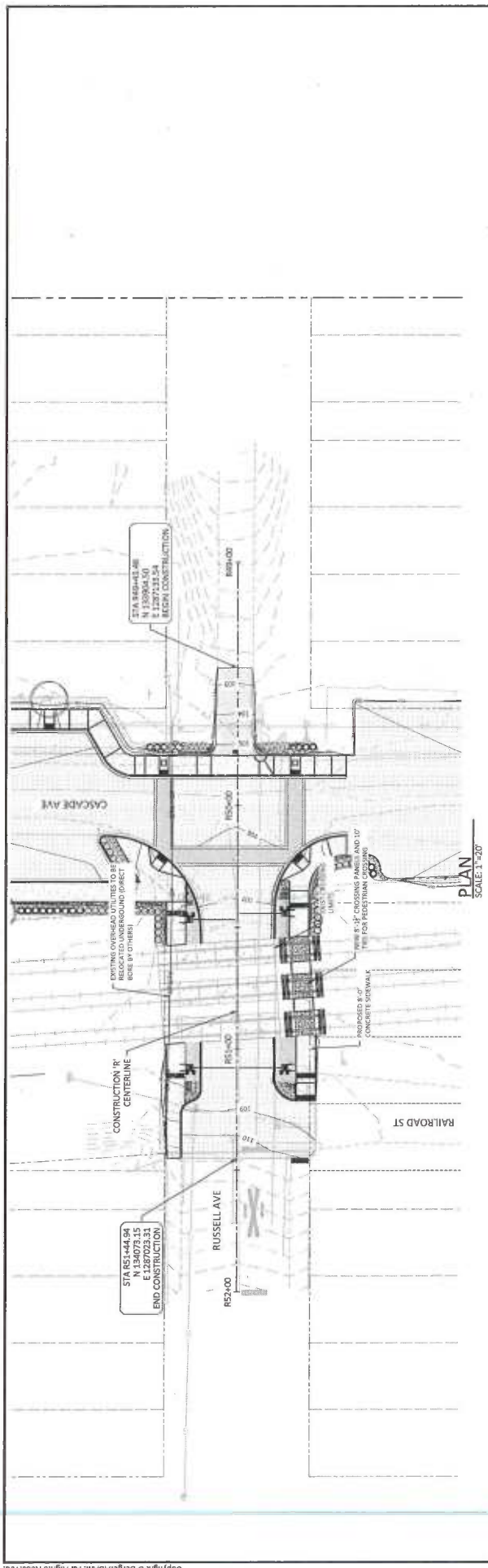


MARK	REVISION DESCRIPTION	BY	APP.	DATE

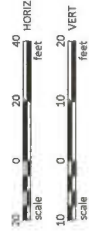
City of Stevenson
BNSF Rail Quad Gates
 PROPOSED RAIL AND PEDESTRIAN CROSSING PLAN

DRAWN BY JRB
 DESIGN BY JRB
 CHECK BY JTB
 PROJ. MGR SIR

DRAWING NO. R-3
 PROJECT NO. A14.0274
 DATE: 3/23/15
 SHEET NO. 3 OF 7



PROFILE
SCALE: 1"=20'(HORIZ), 1"=10'(VERT)



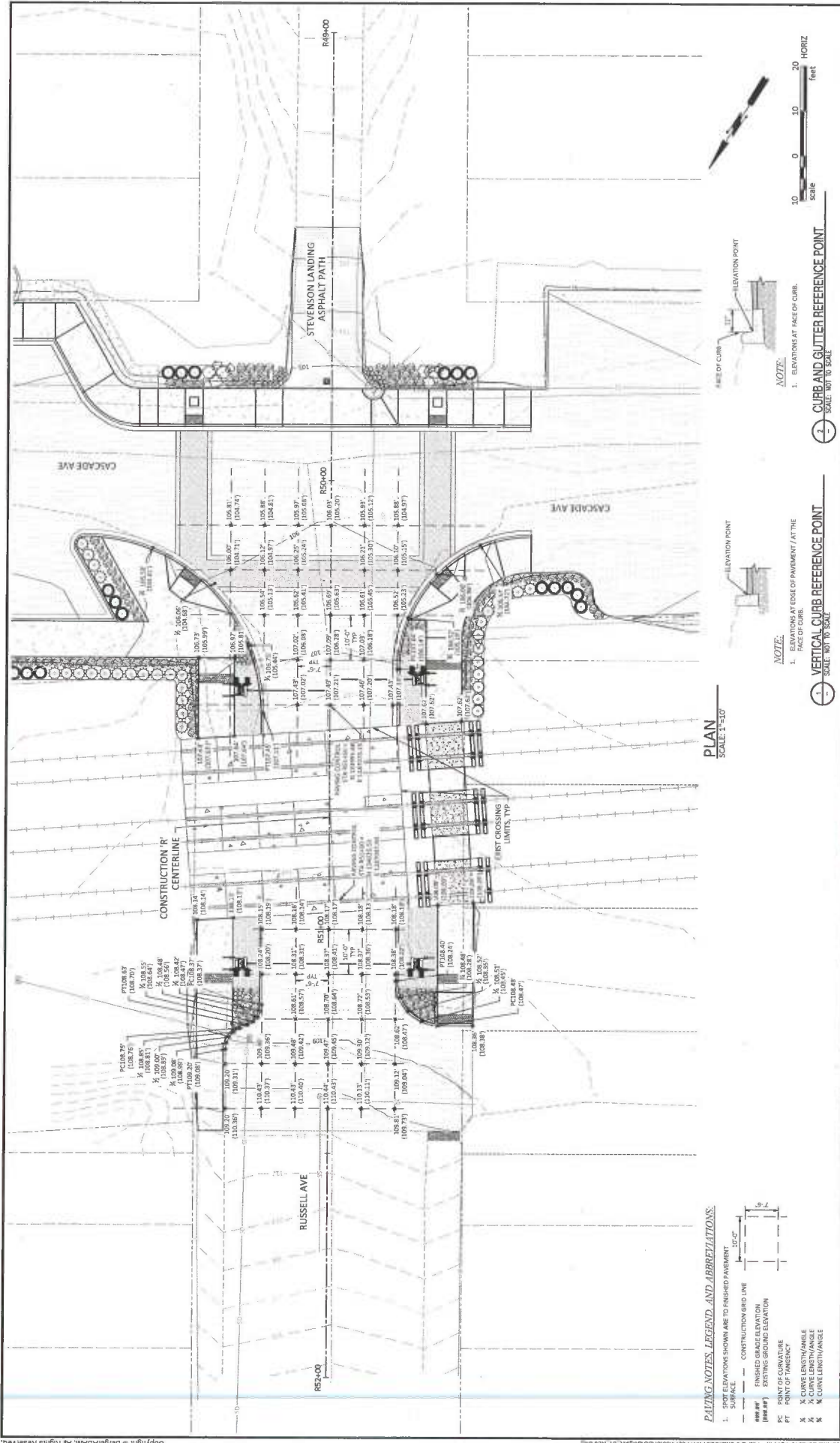
MARK	REVISION DESCRIPTION	BY	APP.	DATE



DRAWN BY: J.R.B.
DESIGN BY: J.R.B.
CHECK BY: J.R.B.
PROJ. MGR: S.L.R.

CITY OF STEVENSON
BNSF RAIL QUAD GATES
RUSSELL AVE PLAN AND PROFILE

DRAWING NO: **R-4**
PROJECT NO.: **A14.0274**
DATE: **3/23/15**
SHEET NO.: **4 OF 7.**



PAVING NOTES, LEGEND, AND ABBREVIATIONS:

- SPOT ELEVATIONS SHOWN ARE TO FINISHED PAVEMENT SURFACE.
- CONSTRUCTION GRID LINE.
- FINISHED GRADE ELEVATION.
- EXISTING GROUND ELEVATION.
- POINT OF TANGENCY.
- CURVE LENGTH/ANGLE.
- CURVE LENGTH/ANGLE.
- CURVE LENGTH/ANGLE.

PLAN SCALE: 1"=10'

NOTE:

- ELEVATIONS AT FACE OF CURB.
- CURB AND GUTTER REFERENCE POINT. SCALE: NOT TO SCALE.

NOTE:

- ELEVATIONS AT FACE OF PAVEMENT AT THE FACE OF CURB.
- VERTICAL CURB REFERENCE POINT. SCALE: NOT TO SCALE.

PLAN SCALE: 1"=10'

NOTE:

- ELEVATIONS AT FACE OF CURB.
- CURB AND GUTTER REFERENCE POINT. SCALE: NOT TO SCALE.

NOTE:

- ELEVATIONS AT FACE OF PAVEMENT AT THE FACE OF CURB.
- VERTICAL CURB REFERENCE POINT. SCALE: NOT TO SCALE.

REVISION TABLE:

NO.	DATE	BY	APP.	DESCRIPTION

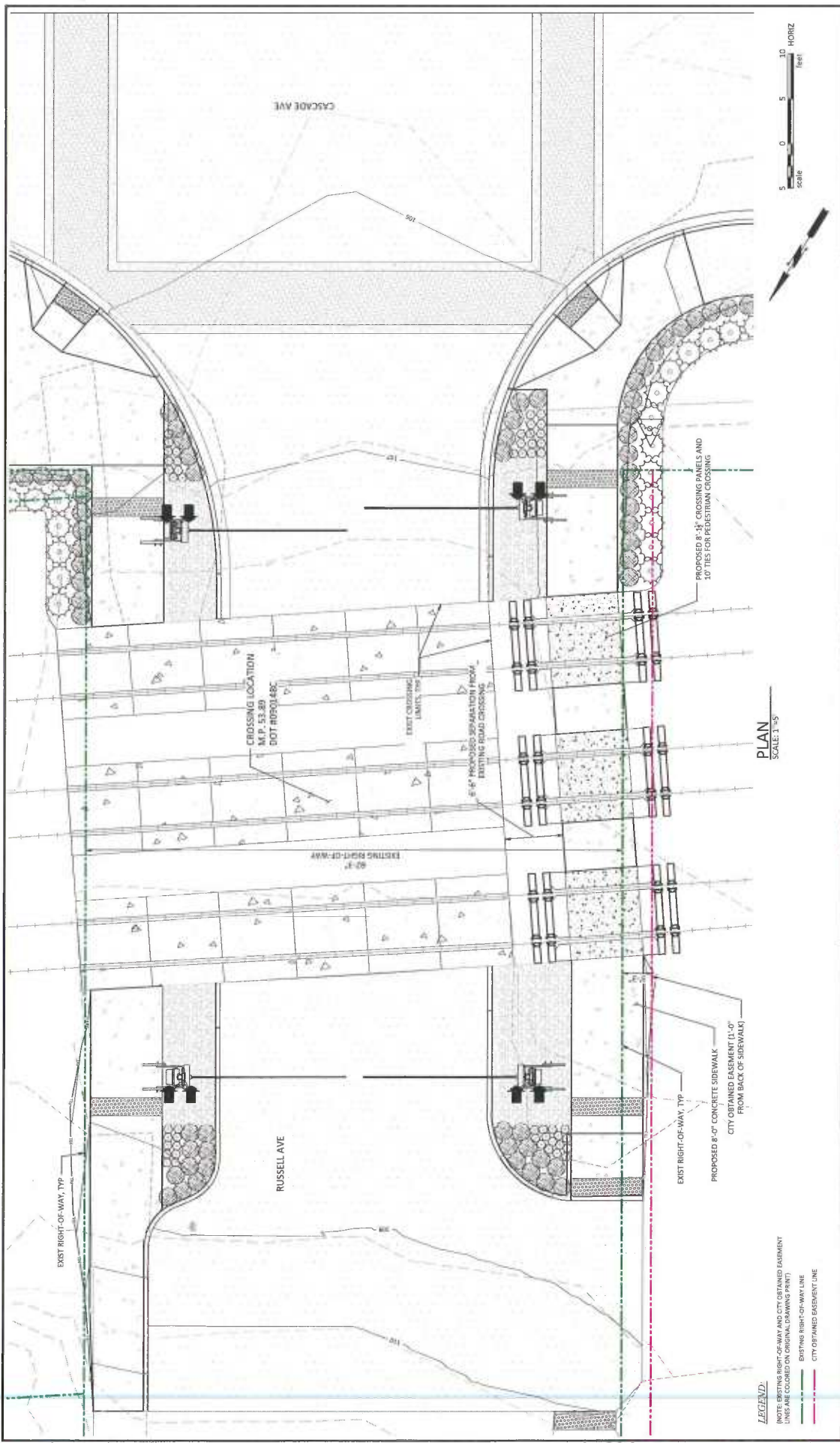
Project Information:

CITY OF STEVENSON
BNSF RAIL QUAD GATES
 RUSSELL AVE GRADING PLAN

Design and Check:
 DRAWN BY: JRB
 DESIGN BY: JRB
 CHECK BY: TRW
 PROJ. MGR: SUR

Professional Seal:
 BERGER ABAM INC. ENGINEERS ARCHITECTS
 700 NE Multnomah Street, Suite 900
 Portland, Oregon 97232-4199
 (503) 572-4100 FAX: (503) 872-4101

Project Details:
 DRAWING NO.: R-5
 PROJECT NO.: A14.0274
 DATE: 3/23/15
 SHEET NO.: 5 OF 7



DRAWING NO. **R-6**
 PROJECT NO. A14.0274
 DATE: 3/23/15
 SHEET NO. 6 OF 7

CITY OF STEVENSON
BNSF RAIL QUAD GATES
RUSSELL AVE EASEMENT PLAN

DRAWN BY JRB
 DESIGN BY JRB
 CHECK BY TRW
 PROJ. MGR SLR

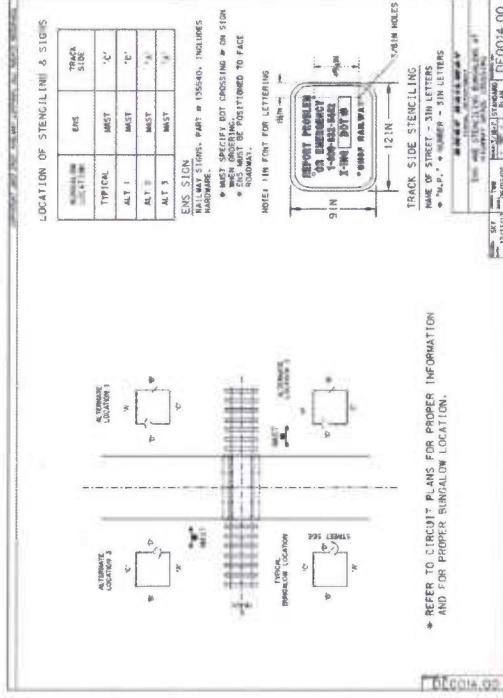
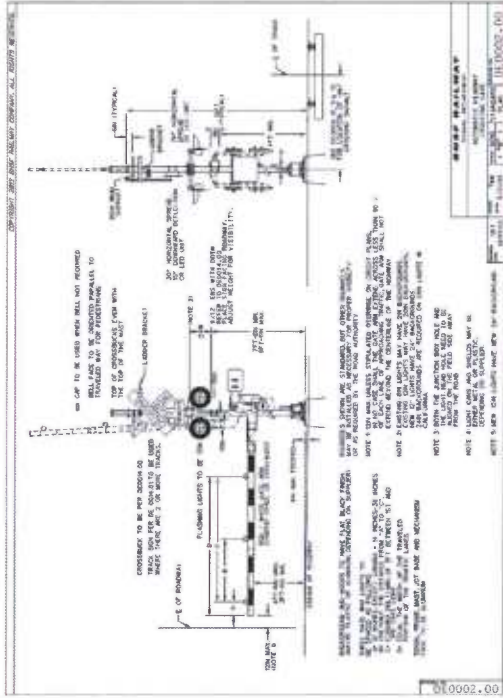



BergerABAM
 700 NE Mulholland Street, Suite 900
 Portland, Oregon 97232-6189
 (503) 972-4100 FAX: (503) 672-4101

MARK	REVISION DESCRIPTION	BY	APP.	DATE

PLAN
 SCALE: 1"=5'

LEGEND:
 (NOTE: EXISTING RIGHT-OF-WAY AND CITY OBTAINED EASEMENT LINES ARE COLORED ON ORIGINAL DRAWING PRINT)
 ——— EXISTING RIGHT-OF-WAY LINE
 ——— CITY OBTAINED EASEMENT LINE



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 700 NE Multnomah Street, Suite 900
 Portland, Oregon 97232-4189
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DRAWN BY JRB
 DESIGN BY JRB
 CHECK BY ITRW
 PROJ. MGR. SLR

CITY OF STEVENSON
 BNSF RAIL QUAD GATES
 RUSSELL AVE QUAD GATE DETAILS

DRAWING NO. R-7
 PROJECT NO. A14.0274
 DATE: 3/23/15
 SHEET NO. 7 OF 7

REVISION DESCRIPTION	BY	APP.	DATE

MARK