

BNSF WSDOT ARRA PROGRAM IN WASHINGTON STATE

KELSO MARTIN'S BLUFF—TOTEFF SIDING EXTENSION—
TOTEFF ROAD ADDENDUM
TASK # 4

PRELIMINARY ENGINEERING

DATE: FEBRUARY 28, 2014

TASK DESCRIPTION:
AGREEMENT NUMBER: RR00470/BF63173
ARRA TASK NUMBER: 4
TASK ORDER No. RR470-01

The parties have reviewed these plans and no exceptions are taken with regard to the ability to use the project as intended. The parties have not reviewed the design details or calculations for structural integrity or engineering accuracy and accepts no responsibility for errors or omissions in the design of the project. The parties agree that the project is acceptable for advancing to construction.

BNSF RAILWAY COMPANY



Signed: _____
Printed: _____
Title: _____
Date: _____

WASHINGTON STATE DEPARTMENT
OF TRANSPORTATION



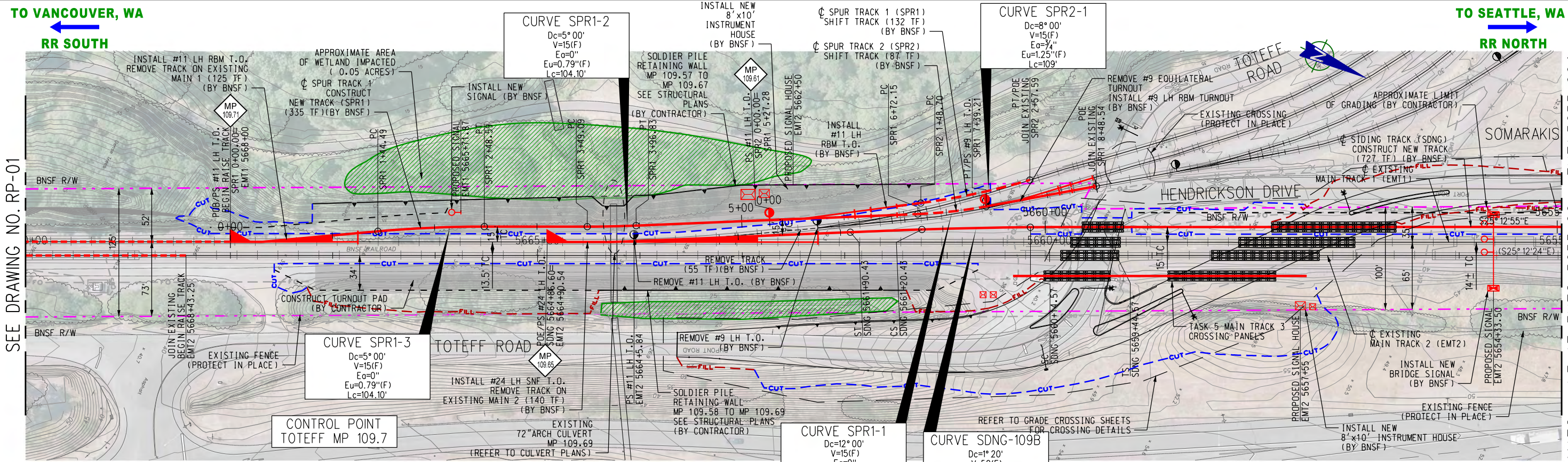
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Date: _____

FEDERAL RAILROAD ADMINISTRATION

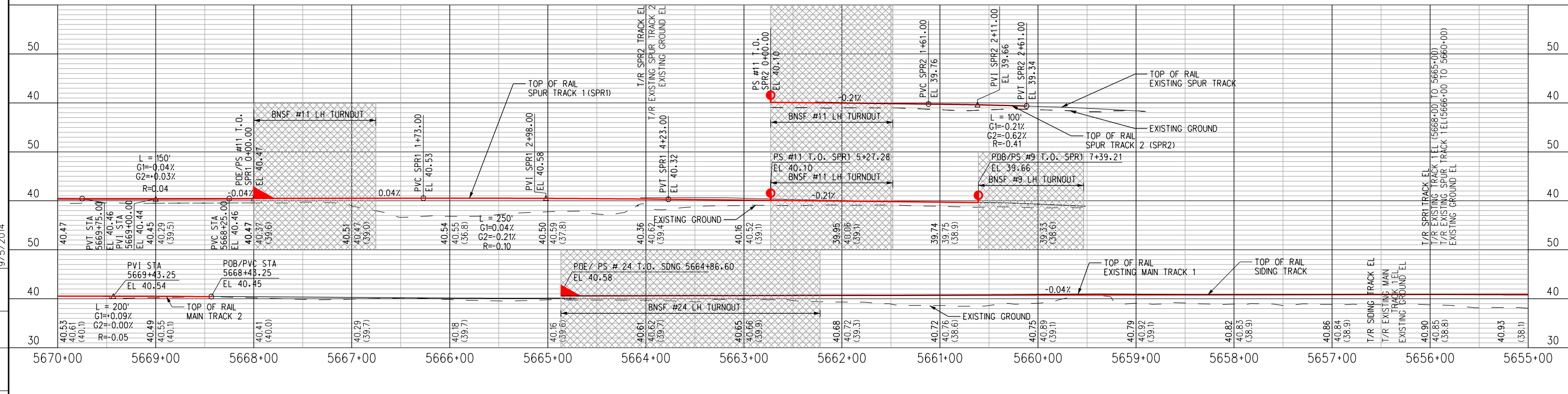
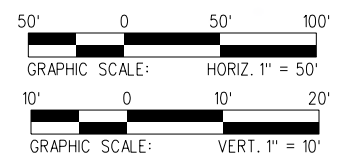


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Title: _____
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PLAN



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PRELIMINARY ENGINEERING

Information confidential
all plans, drawings, specifications, and/or information furnished hereunder shall remain the property of the Burlington Northern Santa Fe Railway and shall be held confidential and shall not be used for any purpose not provided for in agreements with the Burlington Northern Santa Fe Railway.

DESIGNED BY R. CARRILLO
DRAWN BY R. CARRILLO
CHECKED BY B. KORCOK
APPROVED BY M. CANAS
DATE FEBRUARY 14, 2014



J PATTERSON & ASSOCIATES, INC.
725 TOWN & COUNTRY RD
SUITE 300
ORANGE, CA 92668

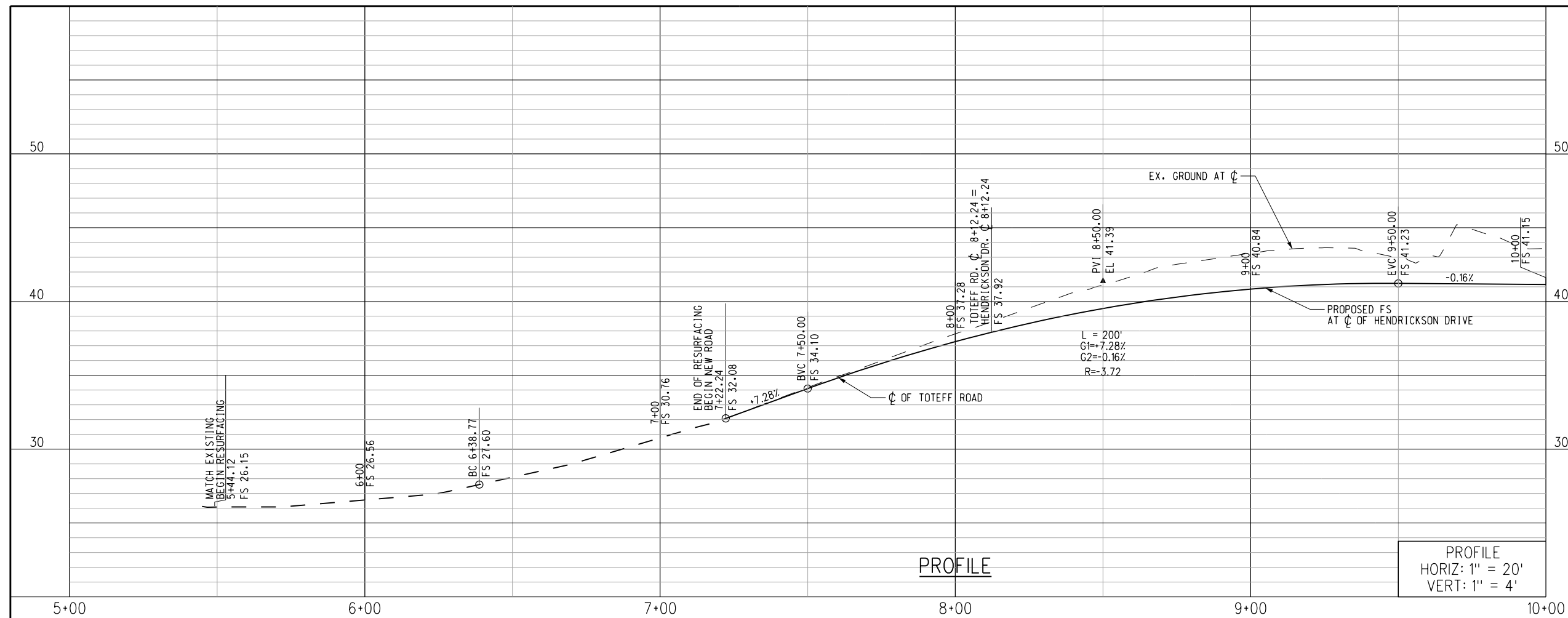
BNSF SEATTLE SUBDIVISION
KELSO TO MARTIN'S BLUFF
TASK 4
TRACK PLAN & PROFILE - SHEET 2 OF 18
EMT2 5670+00 TO EMT2 5655+00
MP 109.74 TO MP 109.48

CONTRACT NO.
DRAWING NO. RP-02
REVISION SHEET NO.
SCALE AS SHOWN

MATCH LINE AT EMT2 5670+00 = EMT1 5670+00+ SEE DRAWING NO. RP-01

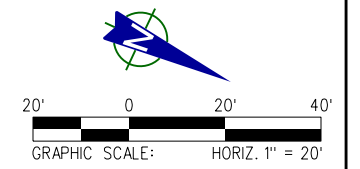
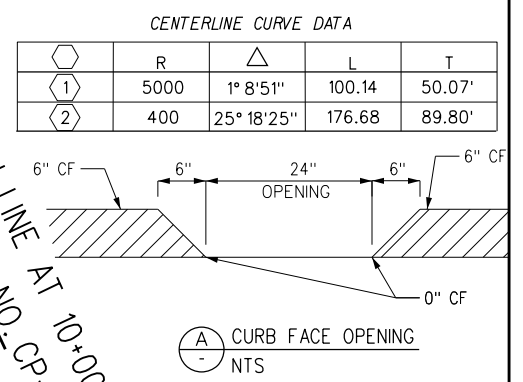
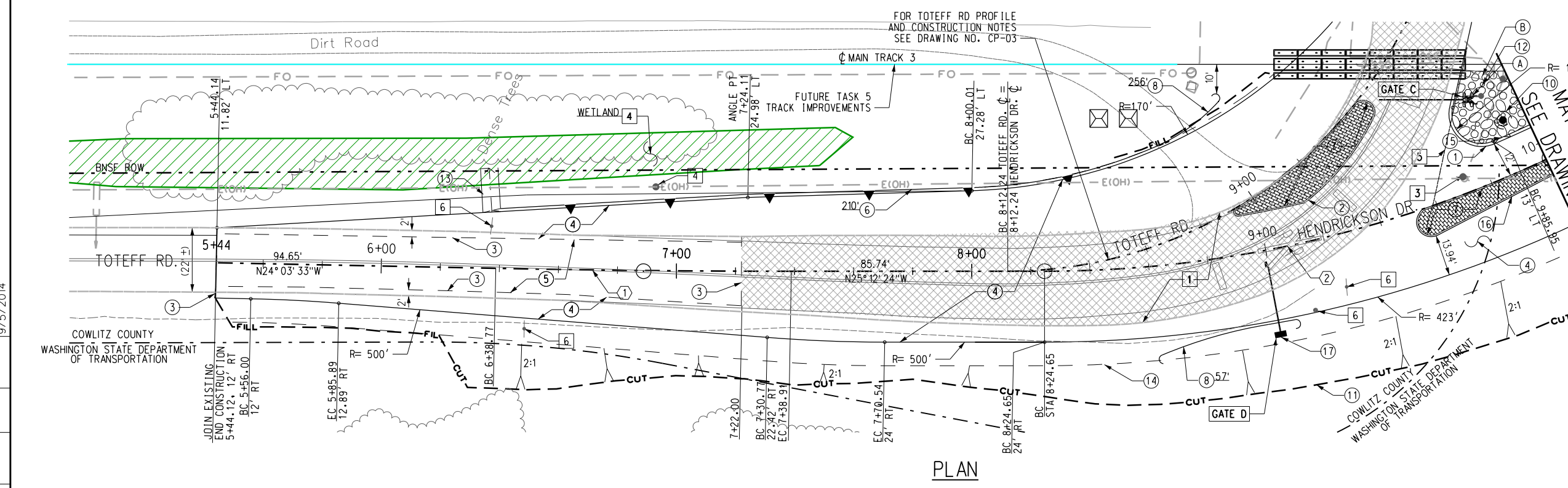
MATCH LINE AT EMT2 5655+00 = EMT1 5655+00+ SEE DRAWING NO. RP-03

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- CONSTRUCTION NOTES (CIVIL CONTRACTOR)**
- CONSTRUCT 6" TRAFFIC CURB & GUTTER PER WSDOT PLAN F-10.12-02
 - CONSTRUCT CURB 2 PER WSDOT PLAN F-10.18-00 PER DETAIL B (SEE DETAIL ON SHEET CP-03)
 - SAW CUT EXISTING ASPHALT
 - CONSTRUCT 6" (MIN) HMAC (TYPE A) PAVEMENT OVER 10" COMPACTED AGGREGATE BASE
 - COLD PLANE OR REMOVE EXISTING AC PAVEMENT (MINIMUM 1.5" THICKNESS) AND OVERLAY AC PAVEMENT (1.5" MIN)
 - INSTALL MODULAR WALL
 - PLACE 4" P.C.C. STANDARD BRICK STAMPED CONCRETE. CONCRETE COLOR SHALL BE BRICK RED #A-26 AS MANUFACTURED BY L.M. SCOFFIELD OR EQUAL
 - INSTALL GUARDRAIL PER WSDOT STD PLAN C-2 CASE 3
 - INSTALL DRYWELL PER WSDOT STD PLAN B-20-60-03
 - GRADE SLOPE AT 2:1 MAX
 - INSTALL 3" THICK 1/2" GRAVEL GROUND COVER PER DETAIL C (SEE SHEET CP-03)
 - INSTALL 8" THICK CONCRETE V DITCH
 - GRADE EARTH SWALE TO DRAIN
 - CONSTRUCT 24" CURB CUT PER DETAIL "A"
 - CONSTRUCT 6" CONCRETE TRAFFIC CURB PER WSDOT F-10.12-02
 - INSTALL 30' MAST ARM
- CONSTRUCTION NOTES (BY BNSF)**
- INSTALL 25' RR GATE
 - REMOVE RR GATE

- REMOVAL NOTES:**
- REMOVE EXISTING AC PAVEMENT
 - RELOCATE POWER POLE BY OTHERS
 - PROTECT IN PLACE
 - REMOVE EXISTING GUARD RAIL
 - REMOVE SIGN POST



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PRELIMINARY ENGINEERING

REV	DATE	DESCRIPTION	BY	SUB	APP

DESIGNED BY: E. LOPEZ
 DRAWN BY: R. CARRILLO
 CHECKED BY: B. KORCOK
 APPROVED BY: M. CANAS
 DATE: FEBRUARY 14, 2014

BNSF RAILWAY

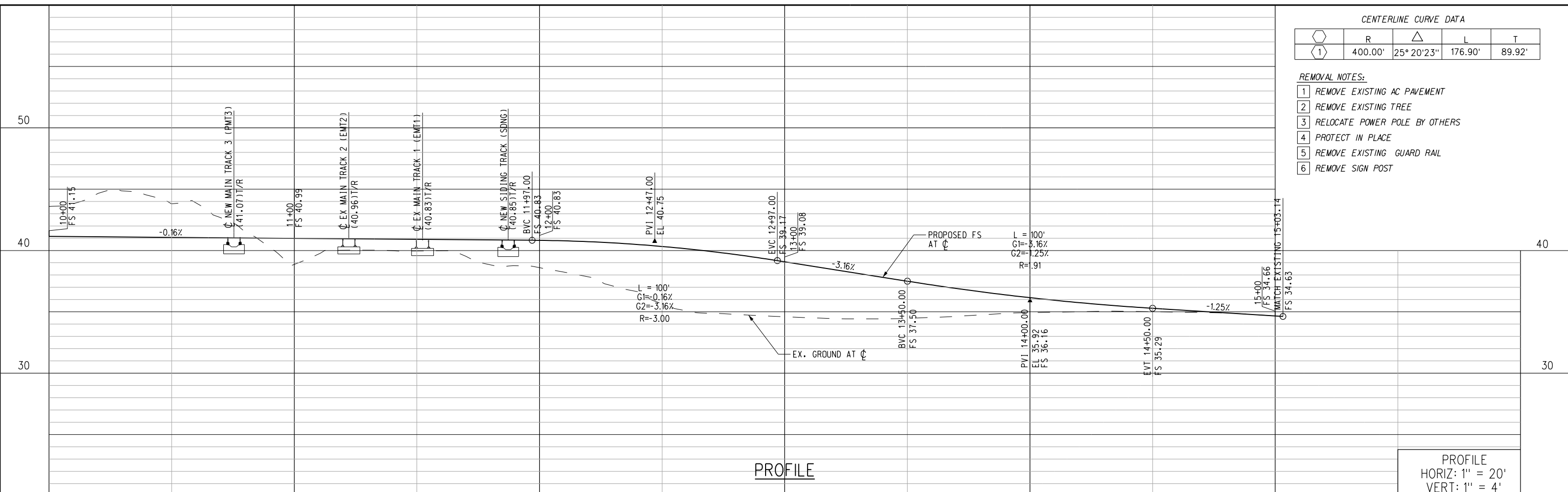
PATTERSON & ASSOCIATES, INC.
 725 TOWN & COUNTRY RD
 SUITE 300
 ORANGE, CA 92668

BNSF SEATTLE SUBDIVISION
 KELSO TO MARTIN'S BLUFF
 TASK 4
 TOTEFF ROAD
 GRADE CROSSING PLAN - SHEET 1 OF 3
 PRELIMINARY DESIGN

CONTRACT NO.
 DRAWING NO. CP-01
 REVISION SHEET NO.
 SCALE AS SHOWN

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PROJECT NUMBER	17087CP02
CUST ELEMENT	CP-02
LINE ITEM	CP-02
CONTRACT DESIGNATOR	CP-02
PHYSICAL ENTITY	CP-02
WORK ELEMENT	CP-02

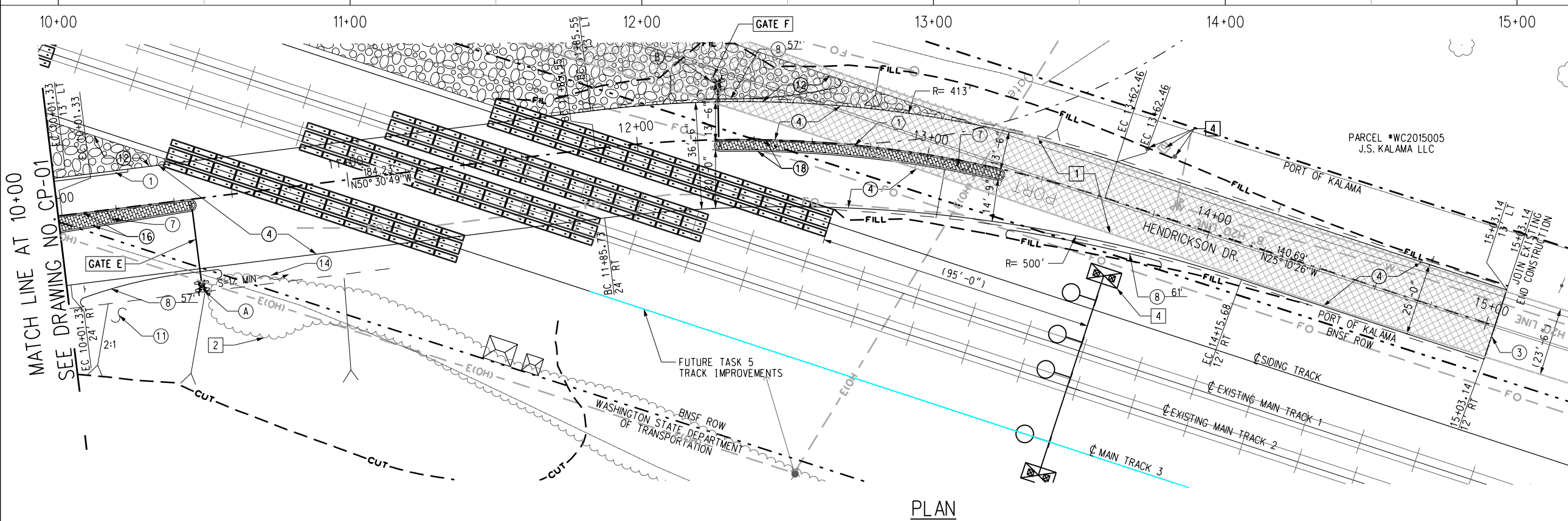


CENTERLINE CURVE DATA

Station	R	Δ	L	T
1	400.00'	25° 20' 23"	176.90'	89.92'

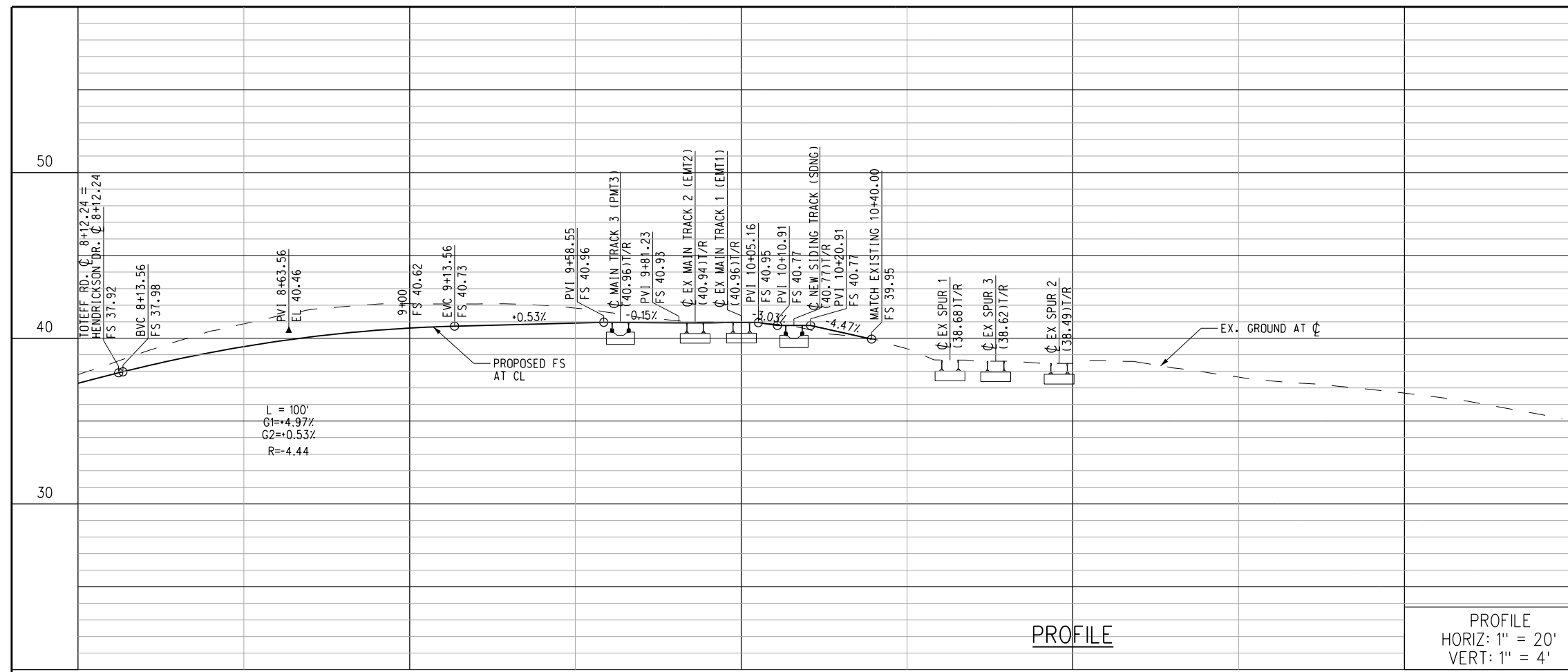
REMOVAL NOTES:

- REMOVE EXISTING AC PAVEMENT
- REMOVE EXISTING TREE
- RELOCATE POWER POLE BY OTHERS
- PROTECT IN PLACE
- REMOVE EXISTING GUARD RAIL
- REMOVE SIGN POST



- CONSTRUCTION NOTES (CIVIL CONTRACTOR)
- CONSTRUCT 6" TRAFFIC CURB & GUTTER PER WSDOT PLAN F-10.12-02
 - SAW CUT EXISTING ASPHALT
 - CONSTRUCT 6" (MIN) HMA (TYPE A) PAVEMENT OVER 10" COMPACTED AGGREGATE BASE
 - PLACE 4" P.C.C. STANDARD BRICK STAMPED CONCRETE. CONCRETE COLOR SHALL BE BRICK RED #A-26 AS MANUFACTURED BY L.M. SCOFFIELD OR EQUAL
 - INSTALL GUARDRAIL PER WSDOT STD PLAN C-2 CASE 3
 - GRADE SLOPE AT 2:1 MAX
 - INSTALL 3" THICK 1/2" GRAVEL GROUND COVER PER DETAIL C (SEE SHEET CP-03)
 - GRADE EARTH SWALE TO DRAIN
 - CONSTRUCT 6" CONCRETE TRAFFIC CURB PER WSDOT F-10.12-02
 - CONSTRUCT 6" CONCRETE TRAFFIC MOUNTABLE CURB PER WSDOT F-10.12-02
- CONSTRUCTION NOTES (BY BNSF)
- INSTALL 25' RR GATE
 - INSTALL 17' RR GATE

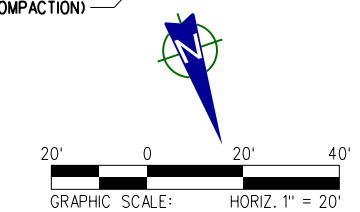
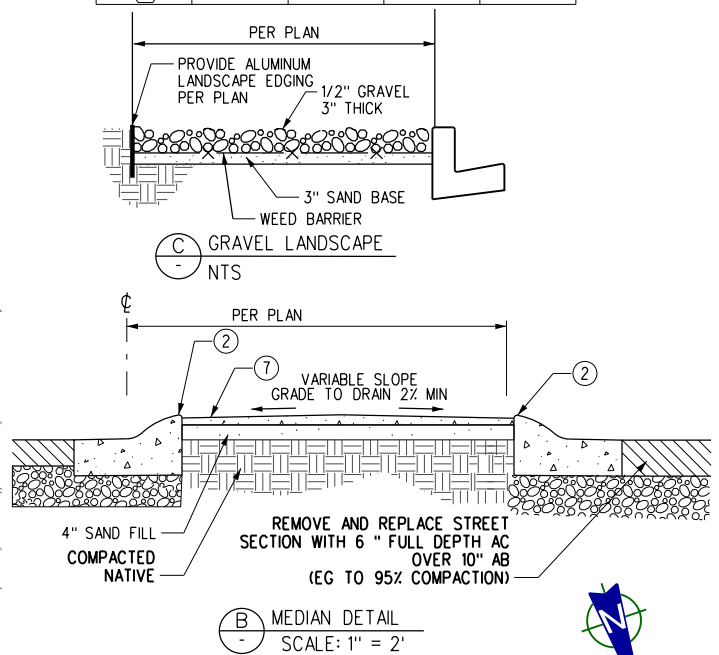
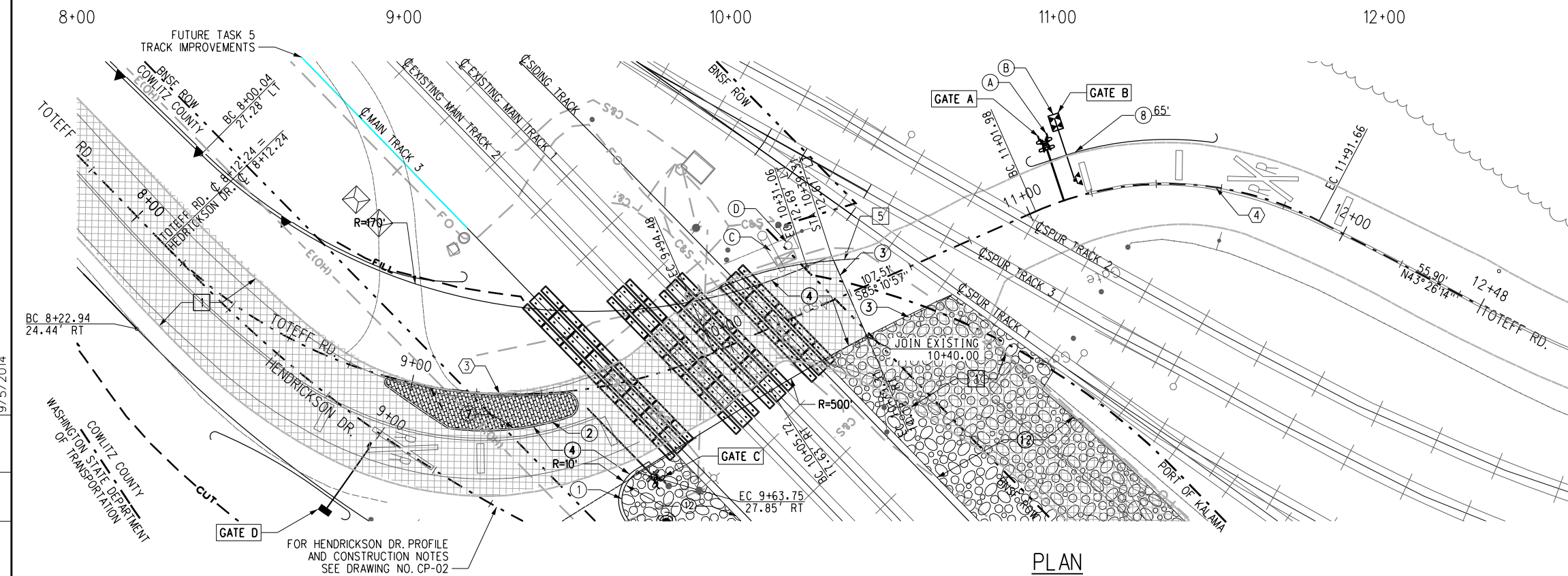
<p>NOT FOR CONSTRUCTION 2014 UPDATED PRELIMINARY ENGINEERING</p>		<p>DESIGNED BY E. LOPEZ DRAWN BY R. CARRILLO CHECKED BY B. KORCOK APPROVED BY M. CANAS DATE FEBRUARY 14, 2014</p>	<p>BNSF RAILWAY</p> <p>PATTERSON & ASSOCIATES, INC. 725 TOWN & COUNTRY RD SUITE 300 ORANGE, CA 92868</p>	<p>BNSF SEATTLE SUBDIVISION KELSO TO MARTIN'S BLUFF TASK 4 HENDRICKSON DRIVE GRADE CROSSING PLAN - SHEET 2 OF 3 PRELIMINARY DESIGN</p>	<p>CONTRACT NO. DRAWING NO. CP-02 REVISION SHEET NO. SCALE AS SHOWN</p>
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- CONSTRUCTION NOTES (CIVIL CONTRACTOR)**
- ① CONSTRUCT 6" TRAFFIC CURB & GUTTER PER WSDOT PLAN F-10.12-02
 - ② CONSTRUCT CURB TYPE 2 PER WSDOT PLAN F-10.18-00 AND PER DETAIL B
 - ③ SAWCUT EXISTING ASPHALT
 - ④ CONSTRUCT 6" (MIN) HMAC (TYPE A) PAVEMENT OVER 10" COMPACTED AGGREGATE BASE
 - ⑦ PLACE 4" P.C.C. STANDARD BRICK STAMPED CONCRETE. CONCRETE COLOR SHALL BE BRICK RED #A-26 AS MANUFACTURED BY L.M. SCOFFIELD OR EQUAL
 - ⑧ INSTALL GUARDRAIL PER WSDOT STD PLAN C-2 CASE 3
 - ⑫ INSTALL 3" THICK 1/2 GRAVEL GROUND COVER PER DETAIL C
 - ⑭ GRADE EARTH SWALE TO DRAIN
 - ⑯ CONSTRUCT 6" CONCRETE TRAFFIC CURB PER WSDOT F-10.12-02
- CONSTRUCTION NOTES (BY BNSF)**
- A INSTALL 17' RR GATE
 - B INSTALL 15' CANTILEVER
 - C REMOVE RR GATE
 - D REMOVE RR CANTILEVER
- REMOVAL NOTES:**
- 1 REMOVE EXISTING AC PAVEMENT
 - 4 PROTECT IN PLACE
 - 5 REMOVE EXISTING GUARD RAIL

CENTERLINE CURVE DATA

Station	R	Δ	L	T
③	150.00'	69° 36' 39"	182.24'	104.27'
④	100.00'	51° 22' 48"	89.68'	48.11'



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DESIGNED BY E. LOPEZ
 DRAWN BY R. CARRILLO
 CHECKED BY B. KORCOK
 APPROVED BY M. CANAS
 DATE FEBRUARY 14, 2014

BNSF RAILWAY

PATTERSON & ASSOCIATES, INC.
 725 TOWN & COUNTRY RD
 SUITE 300
 ORANGE, CA 92668

BNSF SEATTLE SUBDIVISION
 KELSO TO MARTIN'S BLUFF
 TASK 4
 TOTEFF ROAD
 GRADE CROSSING PLAN - SHEET 3 OF 3
 PRELIMINARY DESIGN

CONTRACT NO.
 DRAWING NO. CP-03
 REVISION SHEET NO.
 SCALE AS SHOWN

REV	DATE	DESCRIPTION	BY	SUB	APP

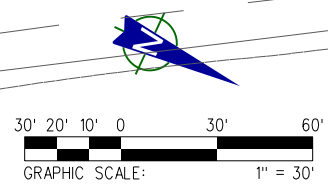
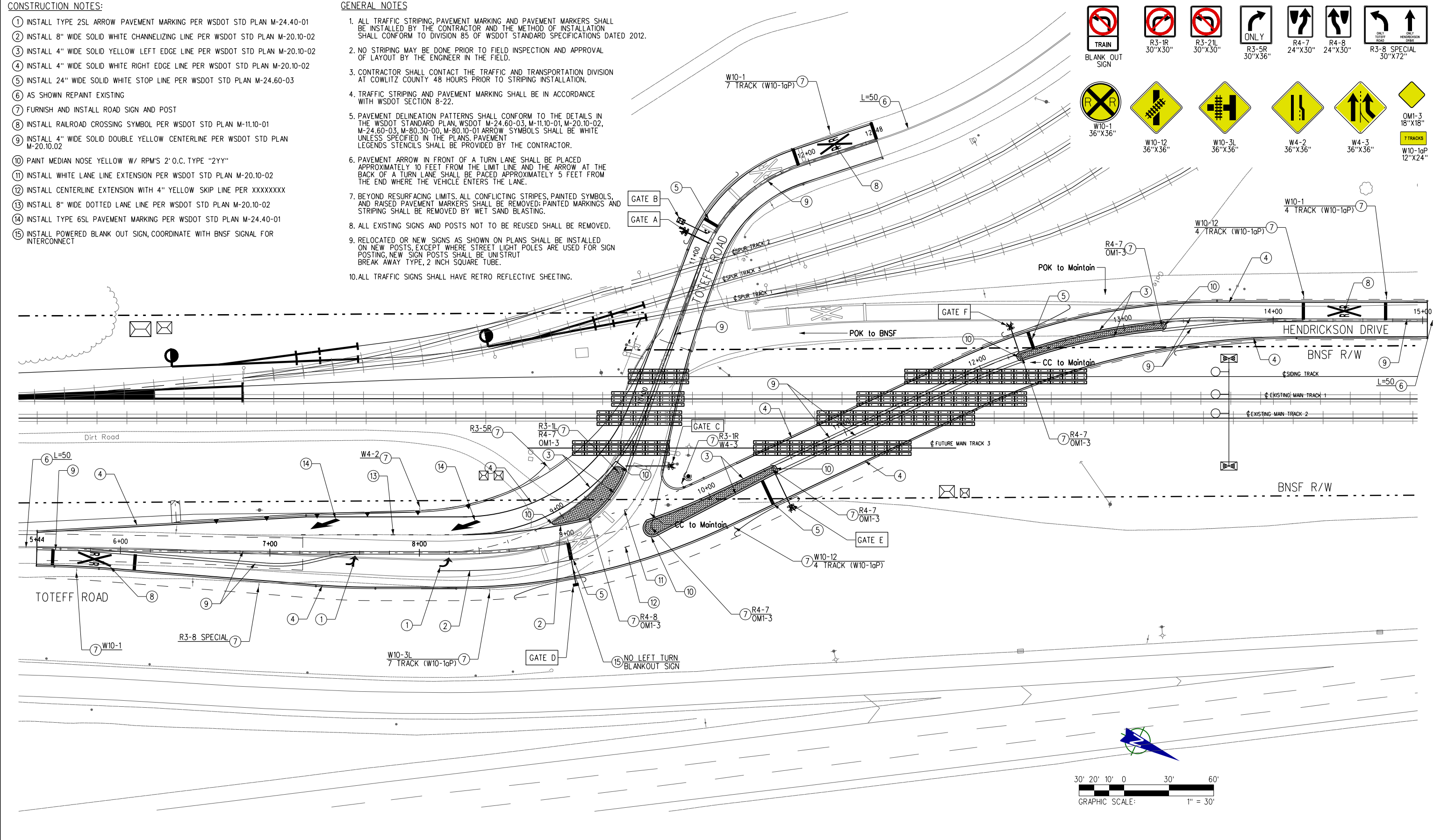
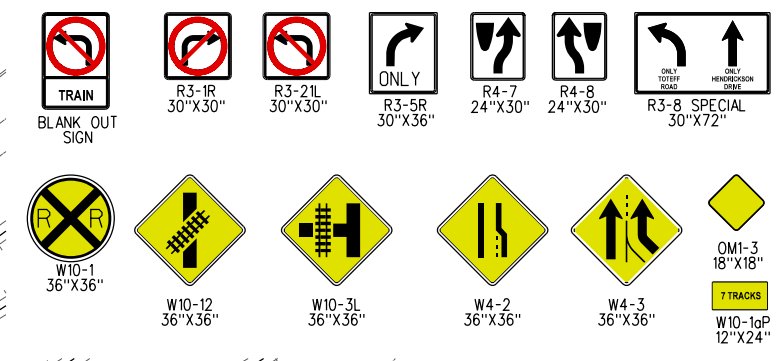
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CONSTRUCTION NOTES:

1. INSTALL TYPE 2SL ARROW PAVEMENT MARKING PER WSDOT STD PLAN M-24.40-01
2. INSTALL 8" WIDE SOLID WHITE CHANNELIZING LINE PER WSDOT STD PLAN M-20.10-02
3. INSTALL 4" WIDE SOLID YELLOW LEFT EDGE LINE PER WSDOT STD PLAN M-20.10-02
4. INSTALL 4" WIDE SOLID WHITE RIGHT EDGE LINE PER WSDOT STD PLAN M-20.10-02
5. INSTALL 24" WIDE SOLID WHITE STOP LINE PER WSDOT STD PLAN M-24.60-03
6. AS SHOWN REPAINT EXISTING
7. FURNISH AND INSTALL ROAD SIGN AND POST
8. INSTALL RAILROAD CROSSING SYMBOL PER WSDOT STD PLAN M-11.10-01
9. INSTALL 4" WIDE SOLID DOUBLE YELLOW CENTERLINE PER WSDOT STD PLAN M-20.10.02
10. PAINT MEDIAN NOSE YELLOW W/ RPM'S 2' O.C. TYPE "2YY"
11. INSTALL WHITE LANE LINE EXTENSION PER WSDOT STD PLAN M-20.10-02
12. INSTALL CENTERLINE EXTENSION WITH 4" YELLOW SKIP LINE PER XXXXXXXX
13. INSTALL 8" WIDE DOTTED LANE LINE PER WSDOT STD PLAN M-20.10-02
14. INSTALL TYPE 6SL PAVEMENT MARKING PER WSDOT STD PLAN M-24.40-01
15. INSTALL POWERED BLANK OUT SIGN, COORDINATE WITH BNSF SIGNAL FOR INTERCONNECT

GENERAL NOTES

1. ALL TRAFFIC STRIPING, PAVEMENT MARKING AND PAVEMENT MARKERS SHALL BE INSTALLED BY THE CONTRACTOR AND THE METHOD OF INSTALLATION SHALL CONFORM TO DIVISION 85 OF WSDOT STANDARD SPECIFICATIONS DATED 2012.
2. NO STRIPING MAY BE DONE PRIOR TO FIELD INSPECTION AND APPROVAL OF LAYOUT BY THE ENGINEER IN THE FIELD.
3. CONTRACTOR SHALL CONTACT THE TRAFFIC AND TRANSPORTATION DIVISION AT COWLITZ COUNTY 48 HOURS PRIOR TO STRIPING INSTALLATION.
4. TRAFFIC STRIPING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH WSDOT SECTION 8-22.
5. PAVEMENT DELINEATION PATTERNS SHALL CONFORM TO THE DETAILS IN THE WSDOT STANDARD PLAN, WSDOT M-24.60-03, M-11.10-01, M-20.10-02, M-24.60-03, M-80.30-00, M-80.10-01 ARROW SYMBOLS SHALL BE WHITE UNLESS SPECIFIED IN THE PLANS. PAVEMENT LEGENDS STENCILS SHALL BE PROVIDED BY THE CONTRACTOR.
6. PAVEMENT ARROW IN FRONT OF A TURN LANE SHALL BE PLACED APPROXIMATELY 10 FEET FROM THE LIMIT LINE AND THE ARROW AT THE BACK OF A TURN LANE SHALL BE PACED APPROXIMATELY 5 FEET FROM THE END WHERE THE VEHICLE ENTERS THE LANE.
7. BEYOND RESURFACING LIMITS, ALL CONFLICTING STRIPES, PAINTED SYMBOLS, AND RAISED PAVEMENT MARKERS SHALL BE REMOVED; PAINTED MARKINGS AND STRIPING SHALL BE REMOVED BY WET SAND BLASTING.
8. ALL EXISTING SIGNS AND POSTS NOT TO BE REUSED SHALL BE REMOVED.
9. RELOCATED OR NEW SIGNS AS SHOWN ON PLANS SHALL BE INSTALLED ON NEW POSTS, EXCEPT WHERE STREET LIGHT POLES ARE USED FOR SIGN POSTING, NEW SIGN POSTS SHALL BE UNISTRUT BREAK AWAY TYPE, 2 INCH SQUARE TUBE.
10. ALL TRAFFIC SIGNS SHALL HAVE RETRO REFLECTIVE SHEETING.



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DESIGNED BY
 DRAWN BY
 CHECKED BY B. KORCOK
 APPROVED BY M. CANAS
 DATE FEBRUARY 14, 2014

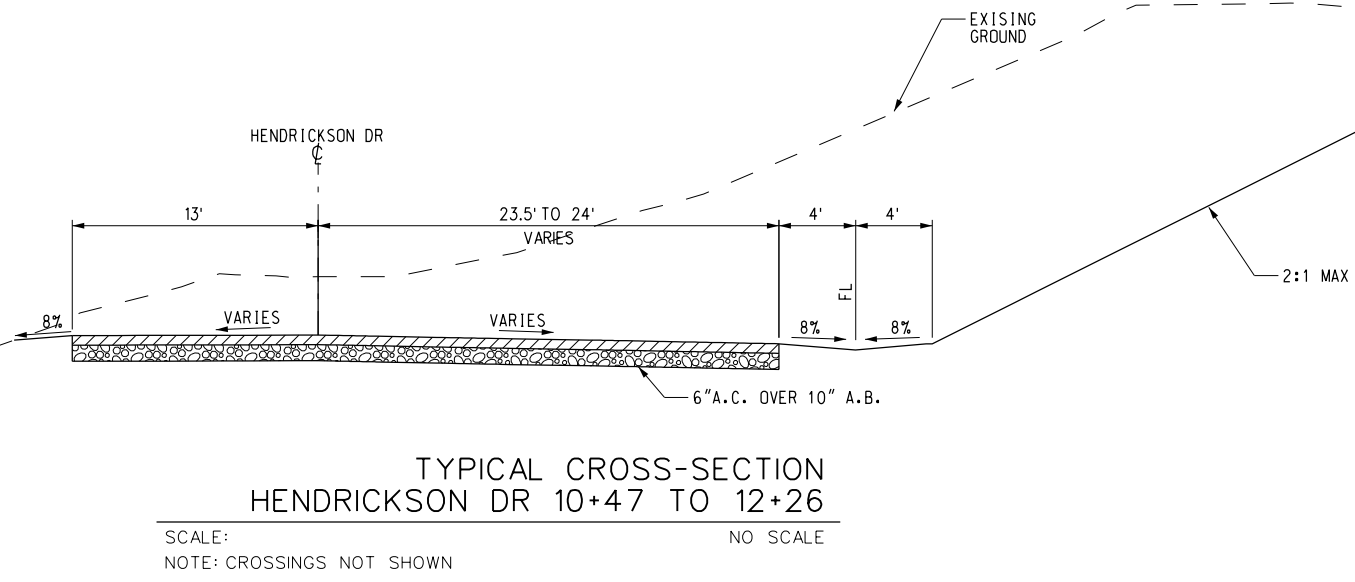
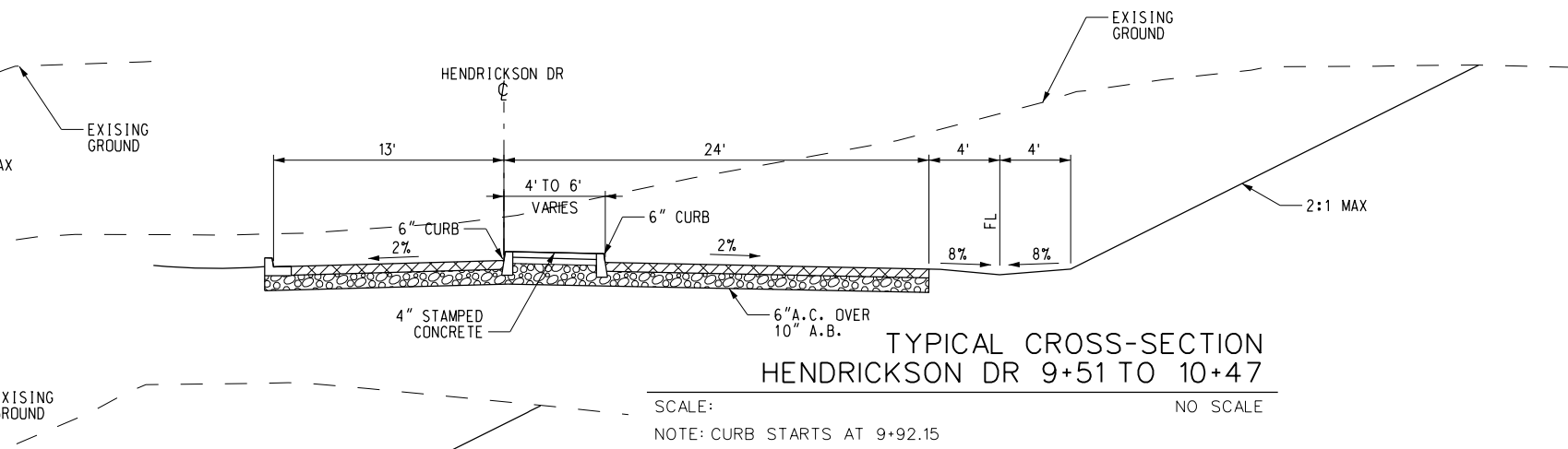
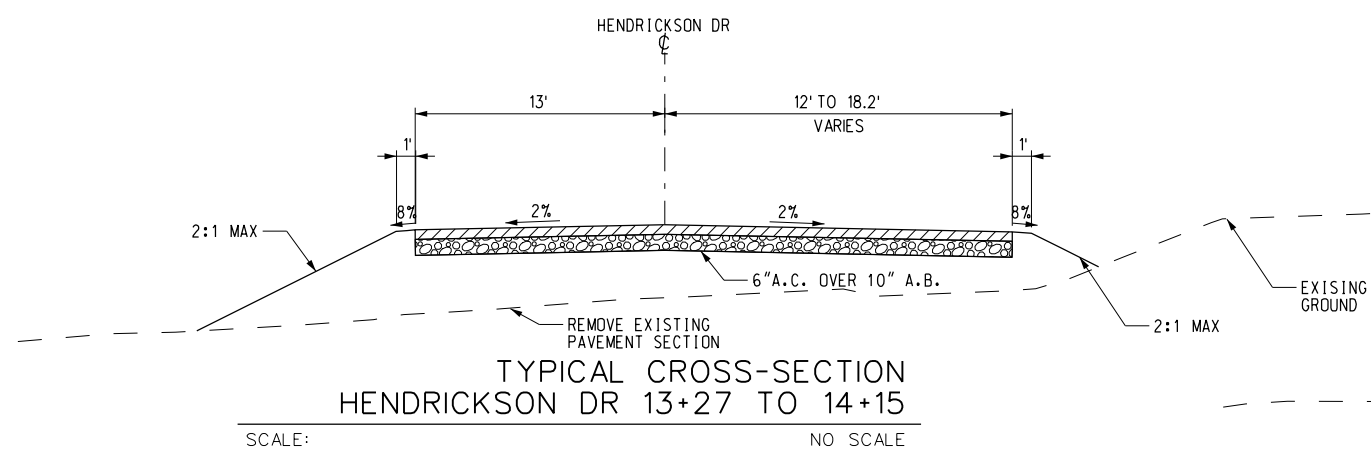
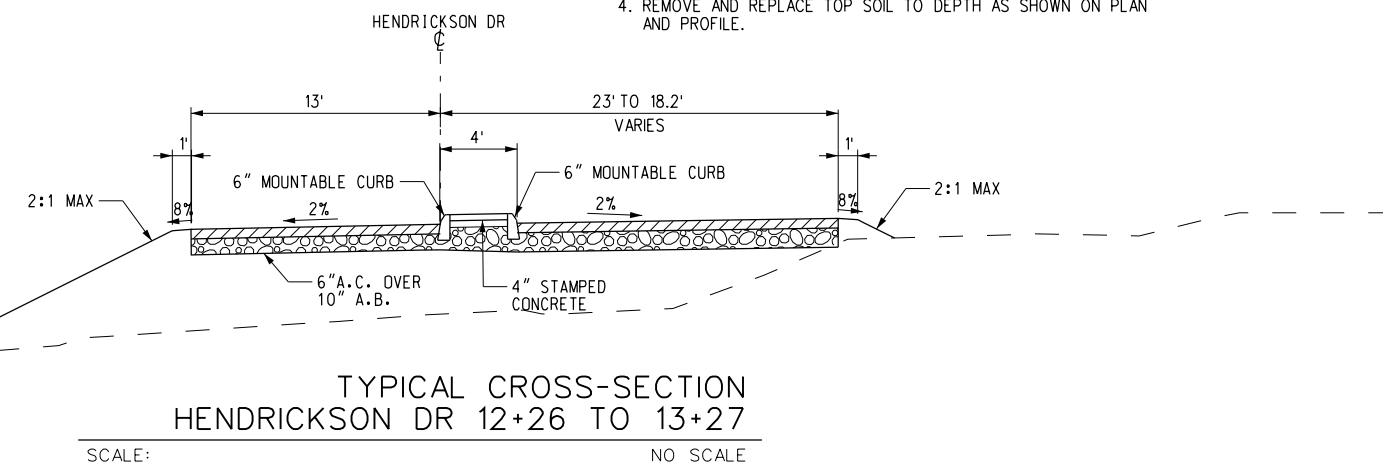
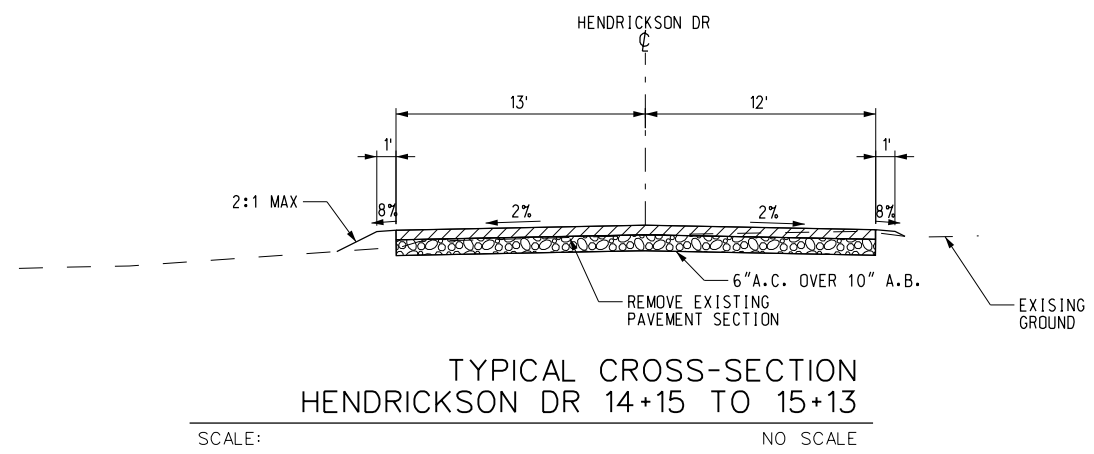


BNSF SEATTLE SUBDIVISION
 KELSO TO MARTIN'S BLUFF
 TASK 4
 HENDRICKSON DRIVE AND TOTEFF ROAD
 SIGNING AND STRIPING PLAN
 PRELIMINARY DESIGN

CONTRACT NO.	
DRAWING NO.	CP-04
REVISION	SHEET NO.
SCALE AS SHOWN	

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- NOTES:**
1. FOR RIGHT-OF-WAY AND PROPOSED RIGHT-OF-WAY DIMENSIONS, SEE PLAN AND PROFILE DRAWINGS.
 2. ALL SLOPES SHALL CONFORM TO GEOTECHNICAL ENGINEER JACOBS ASSOCIATES PROJECT MEMORANDUM DATED XX XX, 2012.
 3. FILL AND CUT SLOPES SHALL BE AS INDICATED ON SITE EXPLICIT CONSTRUCTION PLANS AND PROFILES.
 4. REMOVE AND REPLACE TOP SOIL TO DEPTH AS SHOWN ON PLAN AND PROFILE.



PROJECT NUMBER	LINE ITEM	CONTRACT DESIGNATOR	PHYSICAL ENTITY	WORK ELEMENT

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BNSF
 RAILWAY

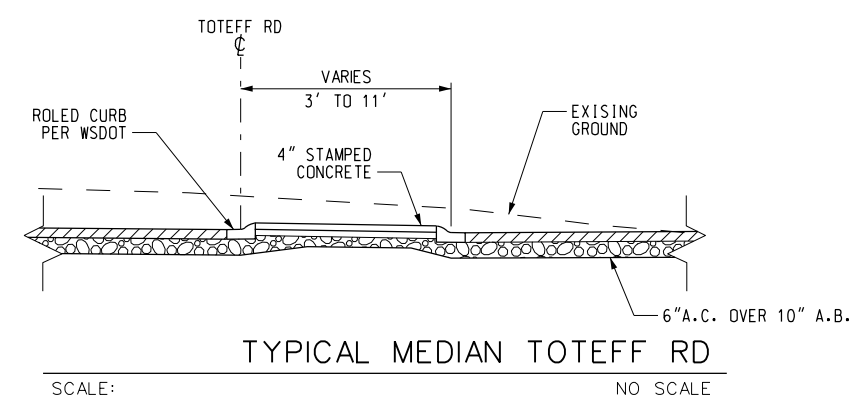
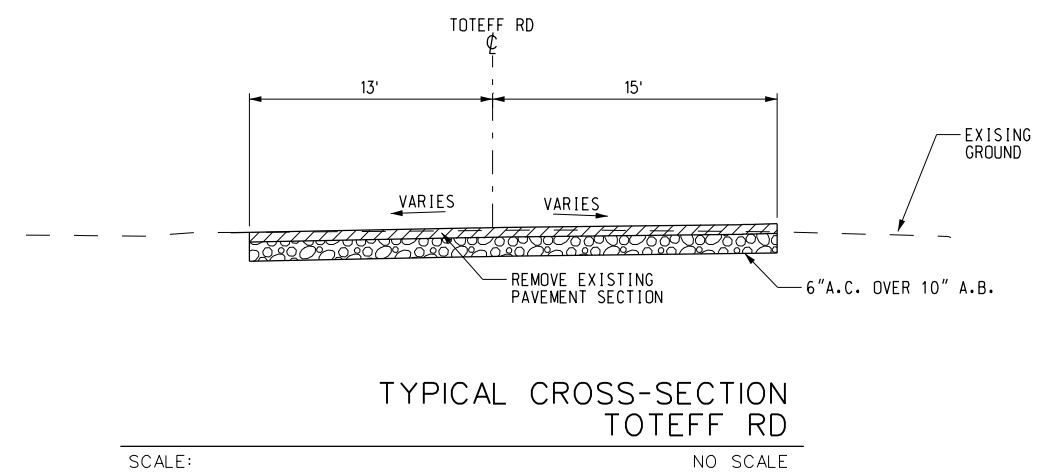
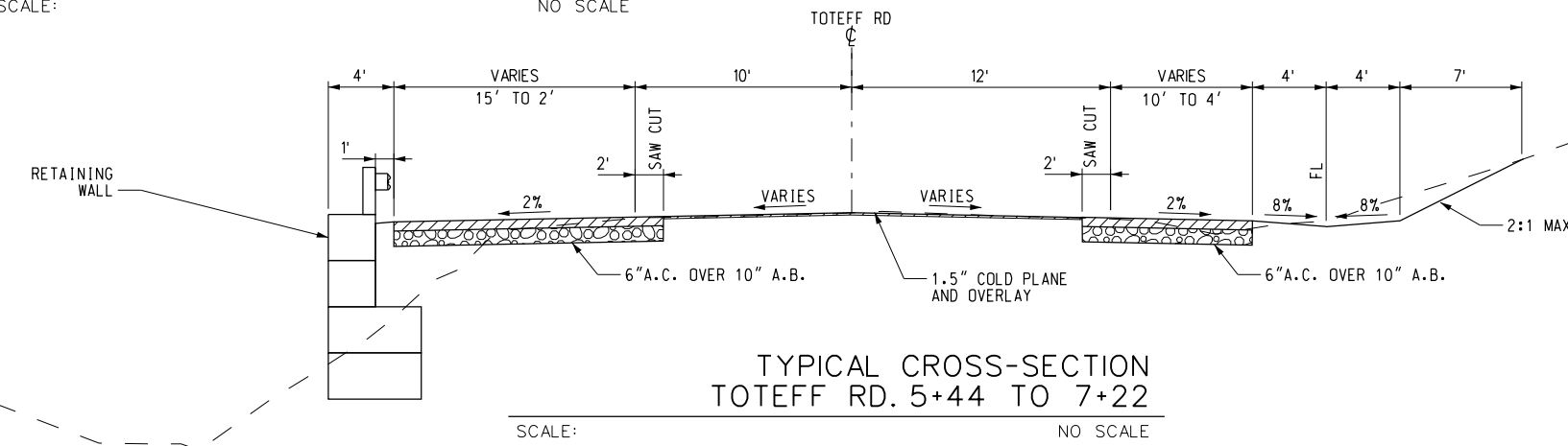
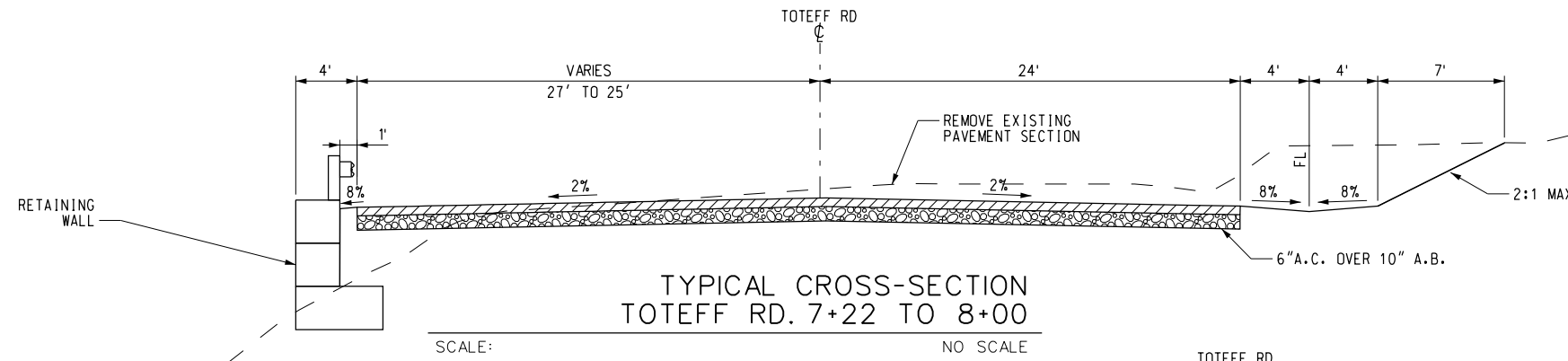
PATTERSON & ASSOCIATES, INC.
 725 TOWN & COUNTRY RD SUITE 300
 ORANGE, CA 92868

BNSF SEATTLE SUBDIVISION
 KELSO TO MARTIN'S BLUFF
 TASK 4
 HENDRICKSON DRIVE
 TYPICAL SECTIONS

CONTRACT NO.	
DRAWING NO.	CT-01
REVISION	SHEET NO.
SCALE	AS SHOWN

REV	DATE	DESCRIPTION	BY	SUB	APP

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- NOTES:
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 3. FILL AND CUT SLOPES SHALL BE AS INDICATED ON SITE EXPLICIT CONSTRUCTION PLANS AND PROFILES.
 4. REMOVE AND REPLACE TOP SOIL TO DEPTH AS SHOWN ON PLAN AND PROFILE.

PROJECT NUMBER	LINE ITEM	CONTRACT DESIGNATOR	PHYSICAL ENTITY	WORK ELEMENT

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PRELIMINARY ENGINEERING

REV	DATE	DESCRIPTION	BY	SUB	APP

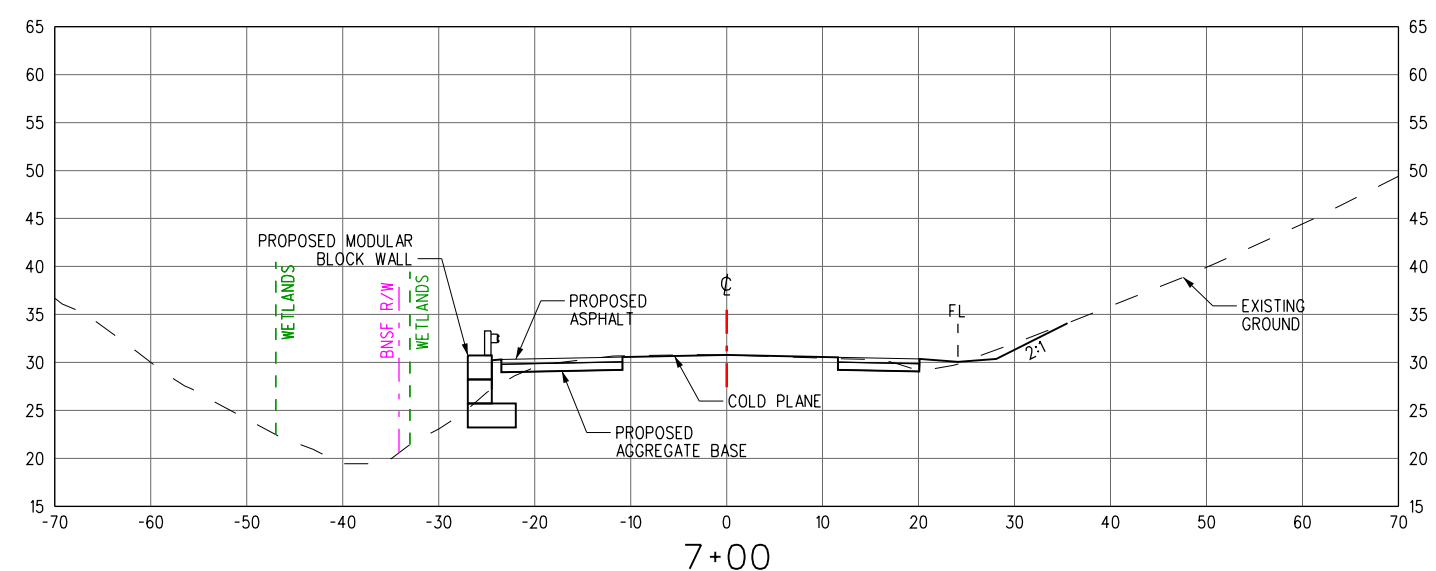
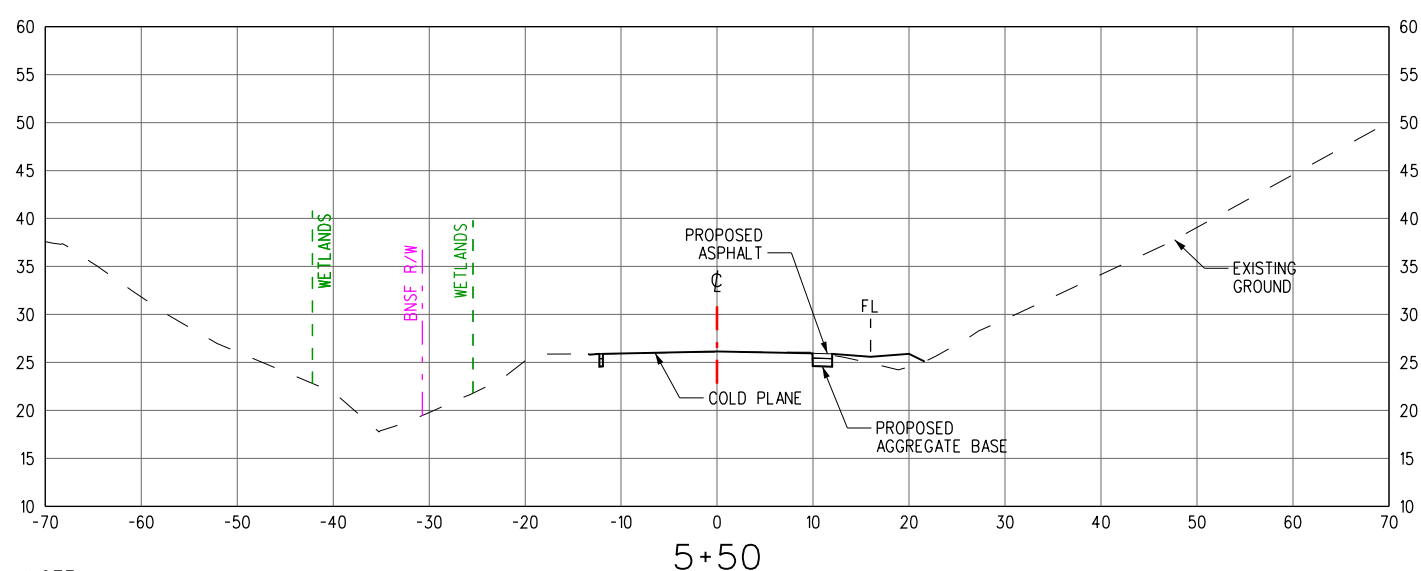
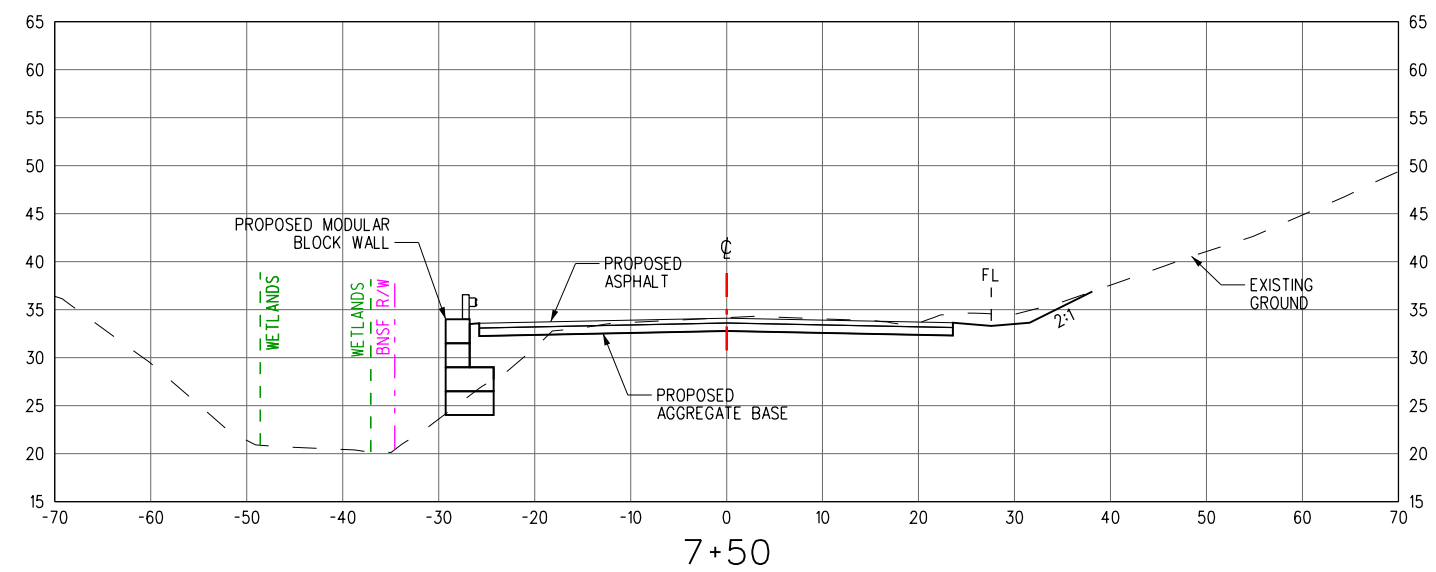
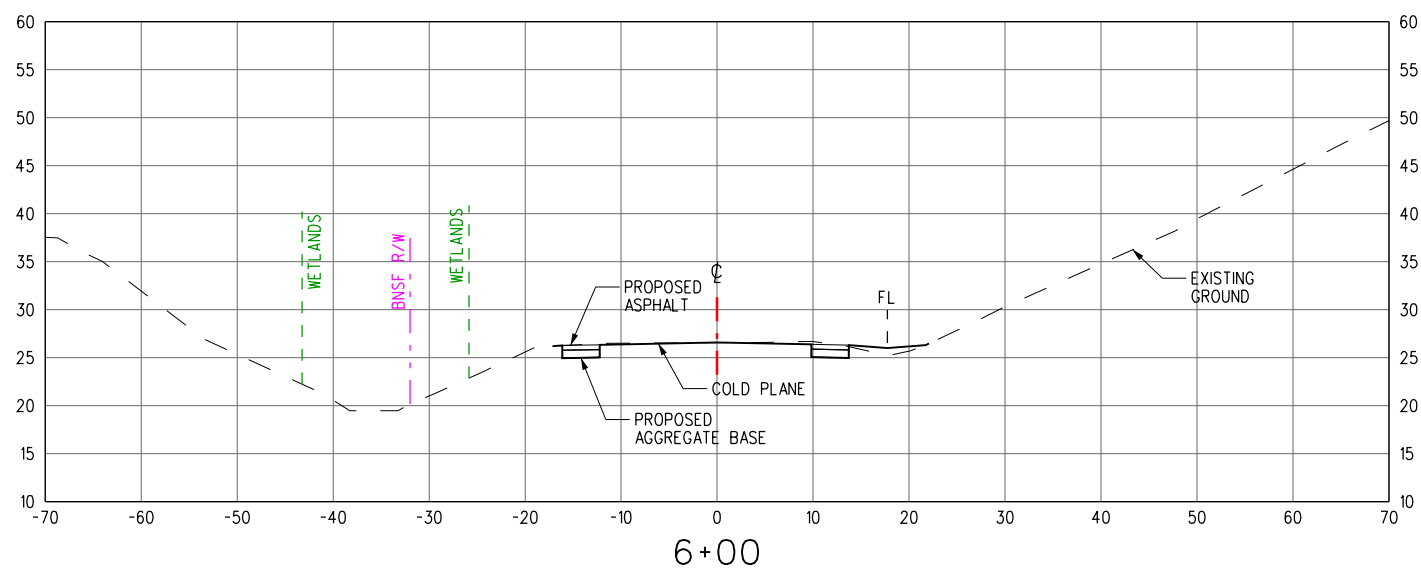
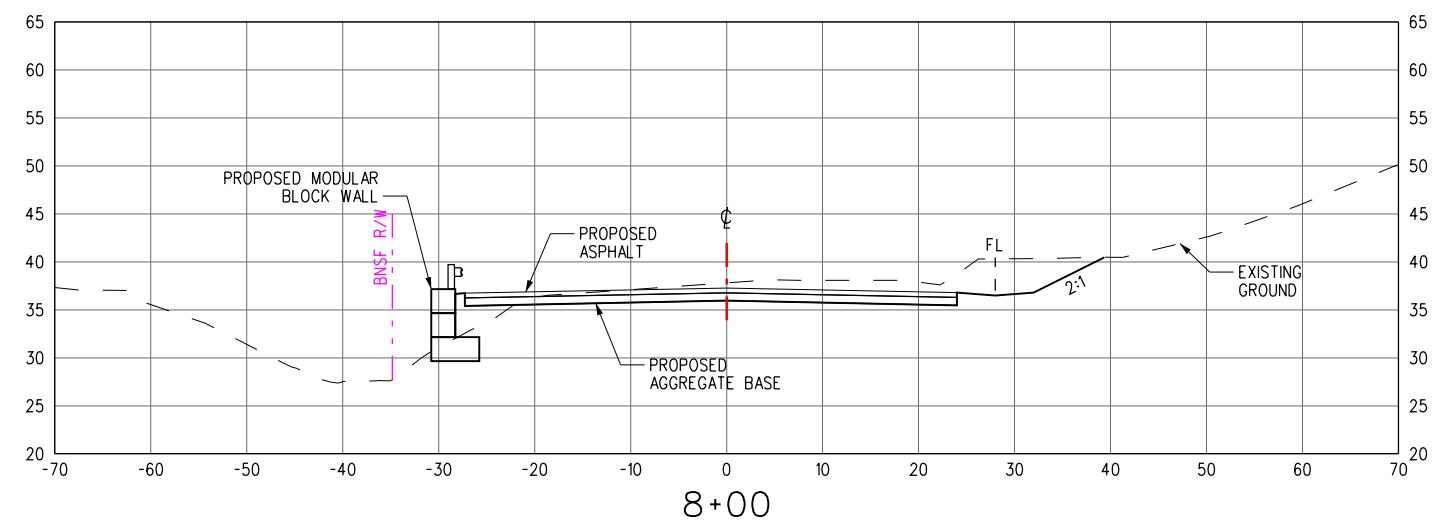
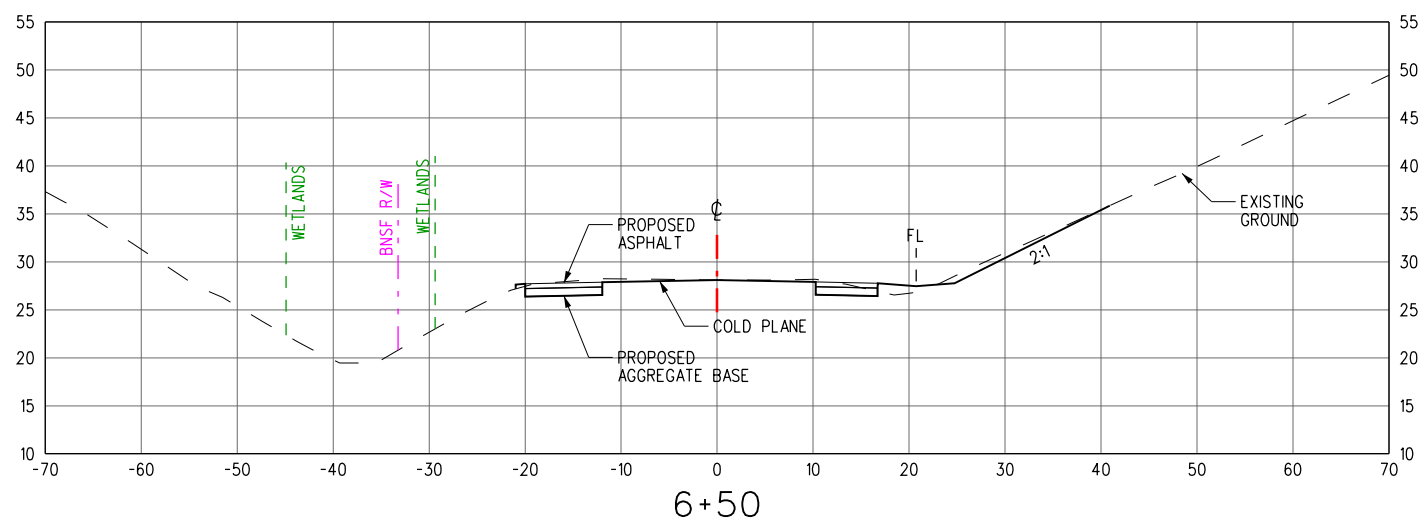
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 TASK 4
 HENDRICKSON DRIVE AND TOTEFF ROAD
 TYPICAL SECTIONS

CONTRACT NO.	
DRAWING NO.	CT-02
REVISION	SHEET NO.
SCALE	AS SHOWN

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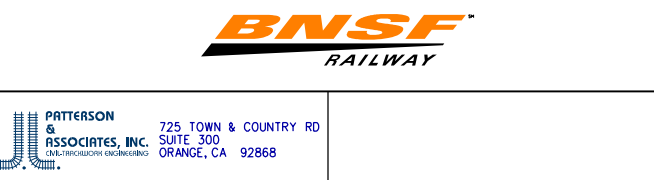
NOTE:
 1. STATIONING IS BASED ON TOTEFF ROAD (SEE PLANS)
 2. BNSF RIGHT-OF-WAY LIMIT NOT SHOWN WHEN BEYOND THE LIMIT OF THE CROSS SECTION



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PRELIMINARY ENGINEERING

Information confidential
 all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Burlington Northern Santa Fe Railway and shall be held confidential and shall not be used for any purpose not provided for in agreements with the Burlington Northern Santa Fe Railway.

DESIGNED BY B. KORCOK
 DRAWN BY B. KORCOK
 CHECKED BY E. LOPEZ
 APPROVED BY M. CANAS
 DATE MARCH 18, 2014

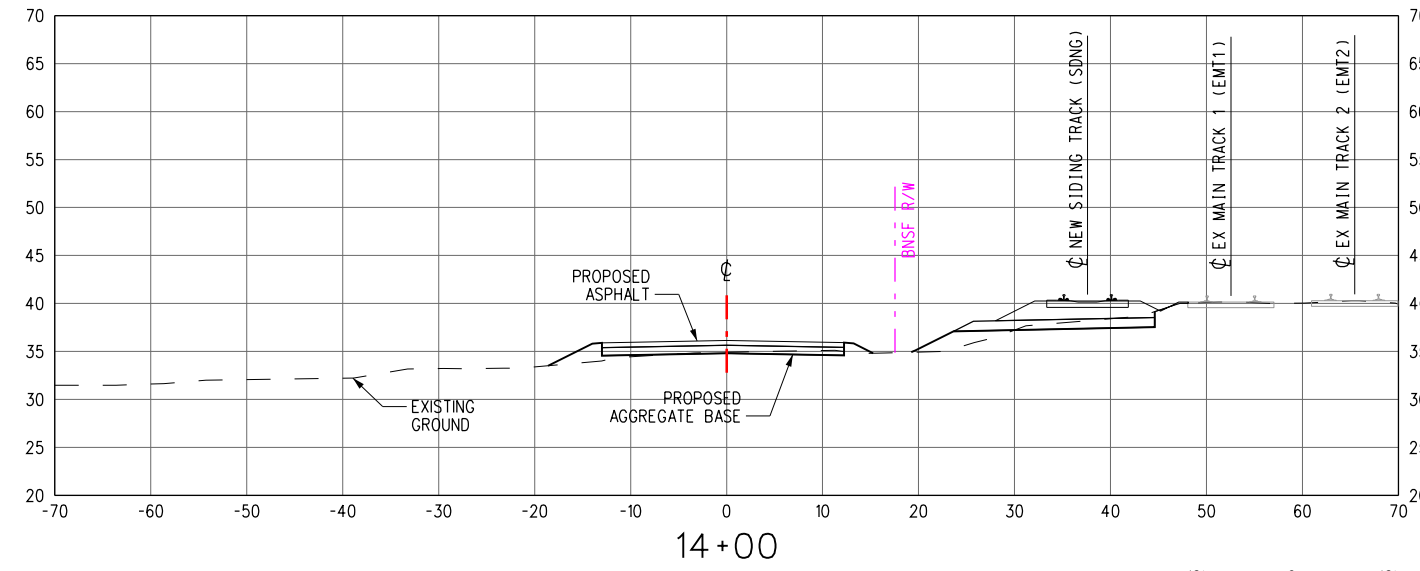
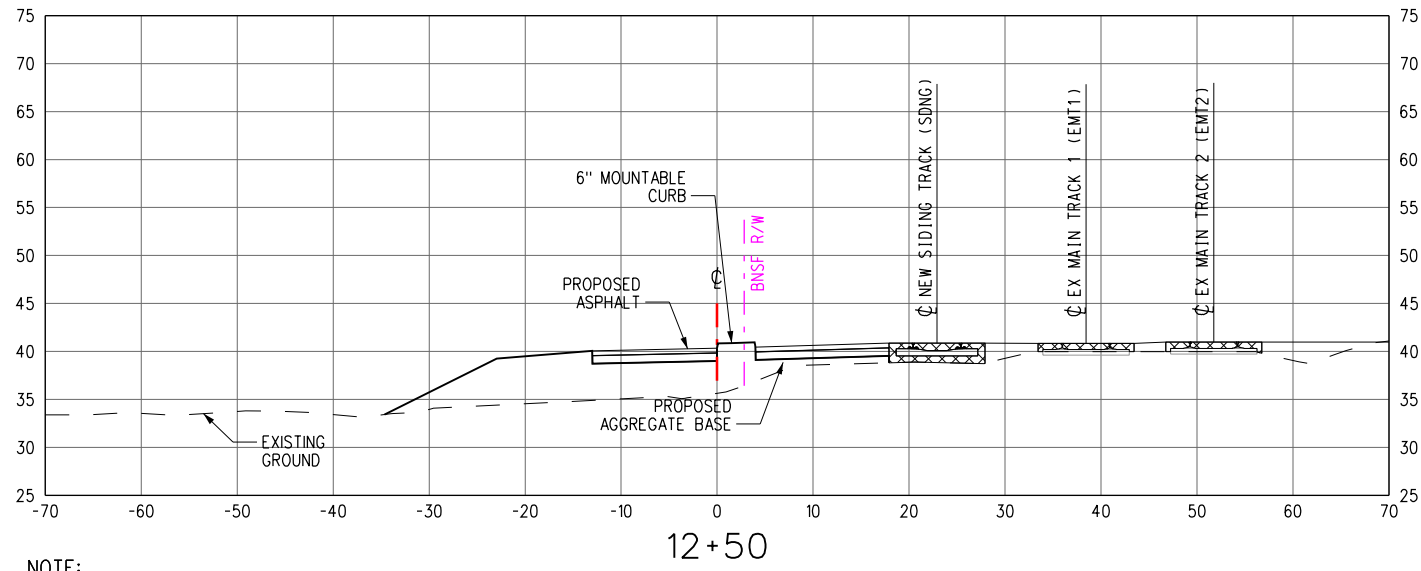
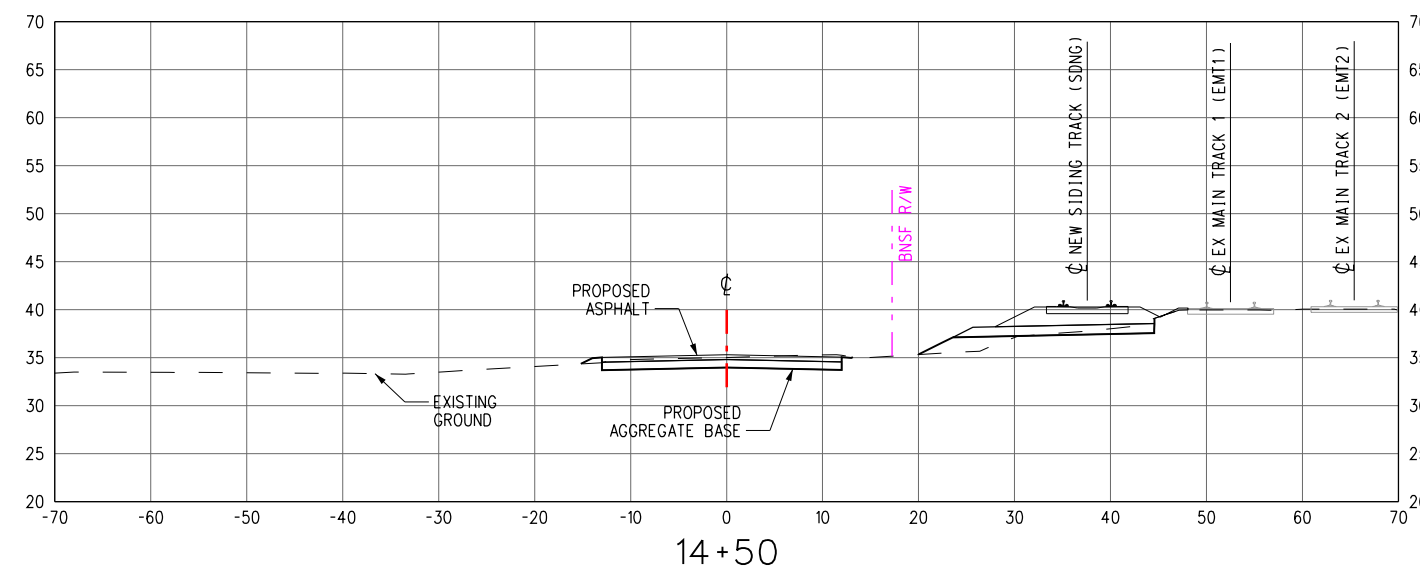
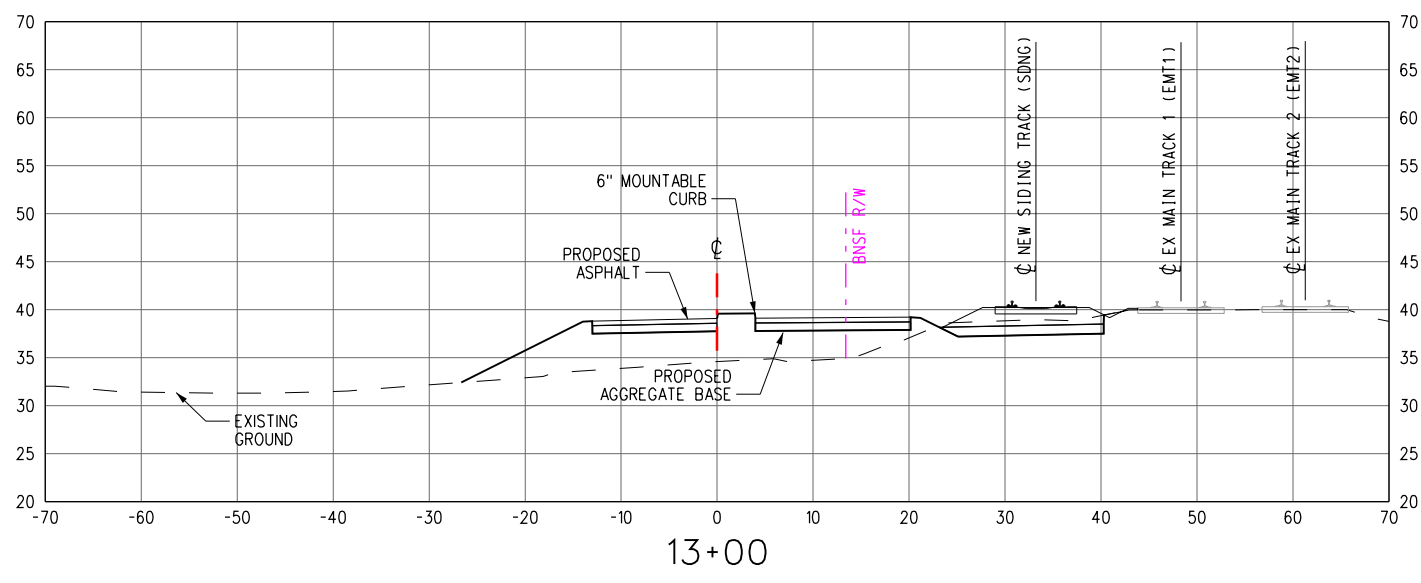
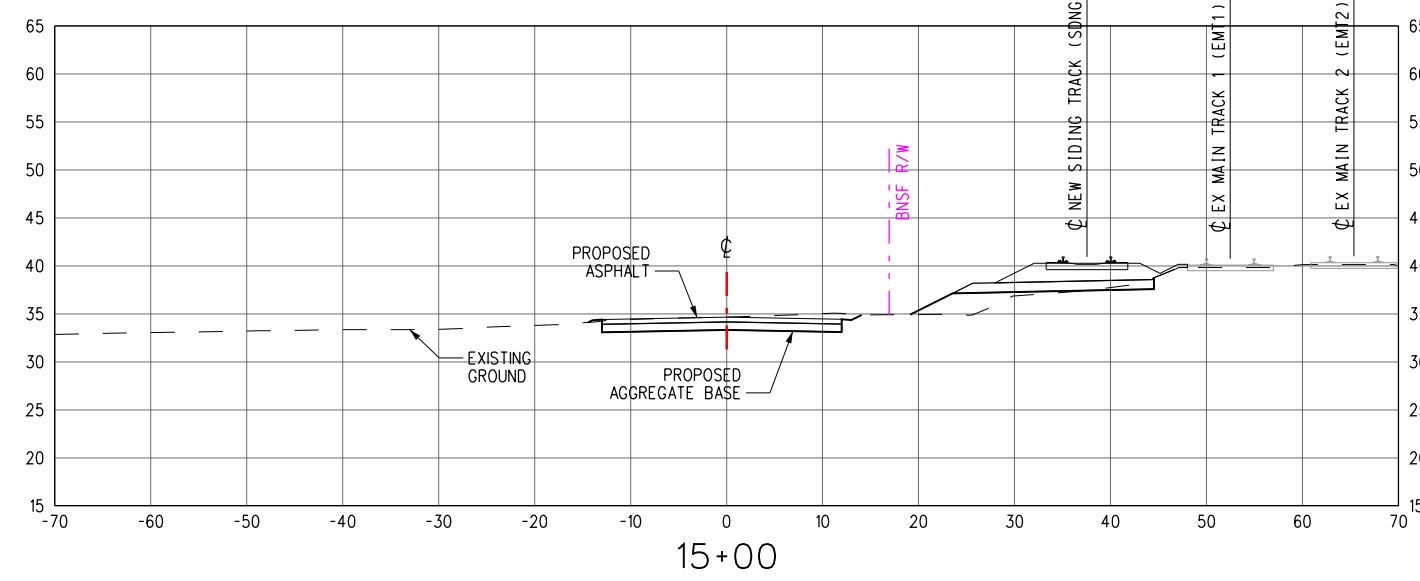
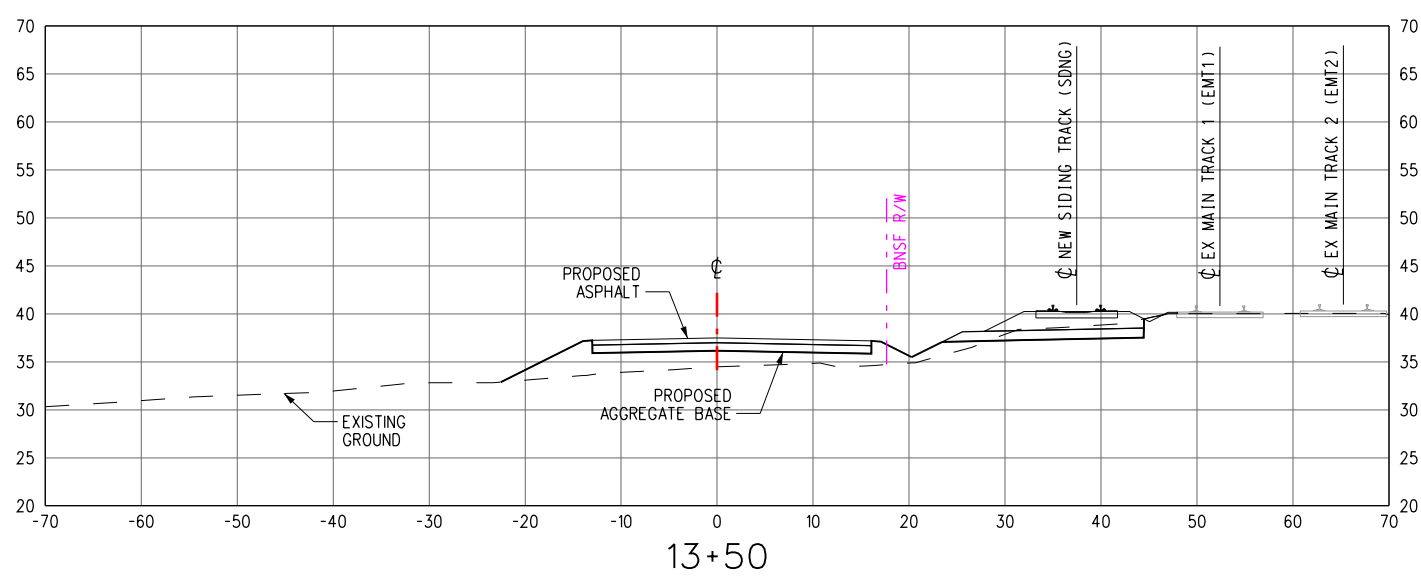


BNSF SEATTLE SUBDIVISION
 KELSO TO MARTIN'S BLUFF
 TASK 4
 TOTEFF ROAD
 CROSS SECTIONS - STA. 5+50 TO STA. 8+00
 SHEET 1 OF 2

CONTRACT NO.
 DRAWING NO. CX-01
 REVISION SHEET NO.
 SCALE AS SHOWN

REV	DATE	DESCRIPTION	BY	SUB	APP

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 9/5/2014



NOTE:
 1. STATIONING IS BASED ON HENDRICKSON DRIVE (SEE PLANS)
 2. BNSF RIGHT-OF-WAY LIMIT NOT SHOWN WHEN BEYOND THE LIMIT OF THE CROSS SECTION



PROJECT NUMBER	WORK ELEMENT
CONTRACT DESIGNATOR	PHYSICAL ENTITY
LINE ITEM	CONTRACT DESIGNATOR
COST ELEMENT	LINE ITEM
REV	DATE
DATE	DESCRIPTION
BY	SUB
APP	APP

NOT FOR CONSTRUCTION
2014 UPDATED
PRELIMINARY ENGINEERING

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BNSF SEATTLE SUBDIVISION
 KELSO TO MARTIN'S BLUFF
 TASK 4
 HENDRICKSON DRIVE
 CROSS SECTIONS - STA. 12+50 TO STA. 15+00
 SHEET 2 OF 2

CONTRACT NO.
 DRAWING NO. CX-02
 REVISION SHEET NO.
 SCALE AS SHOWN