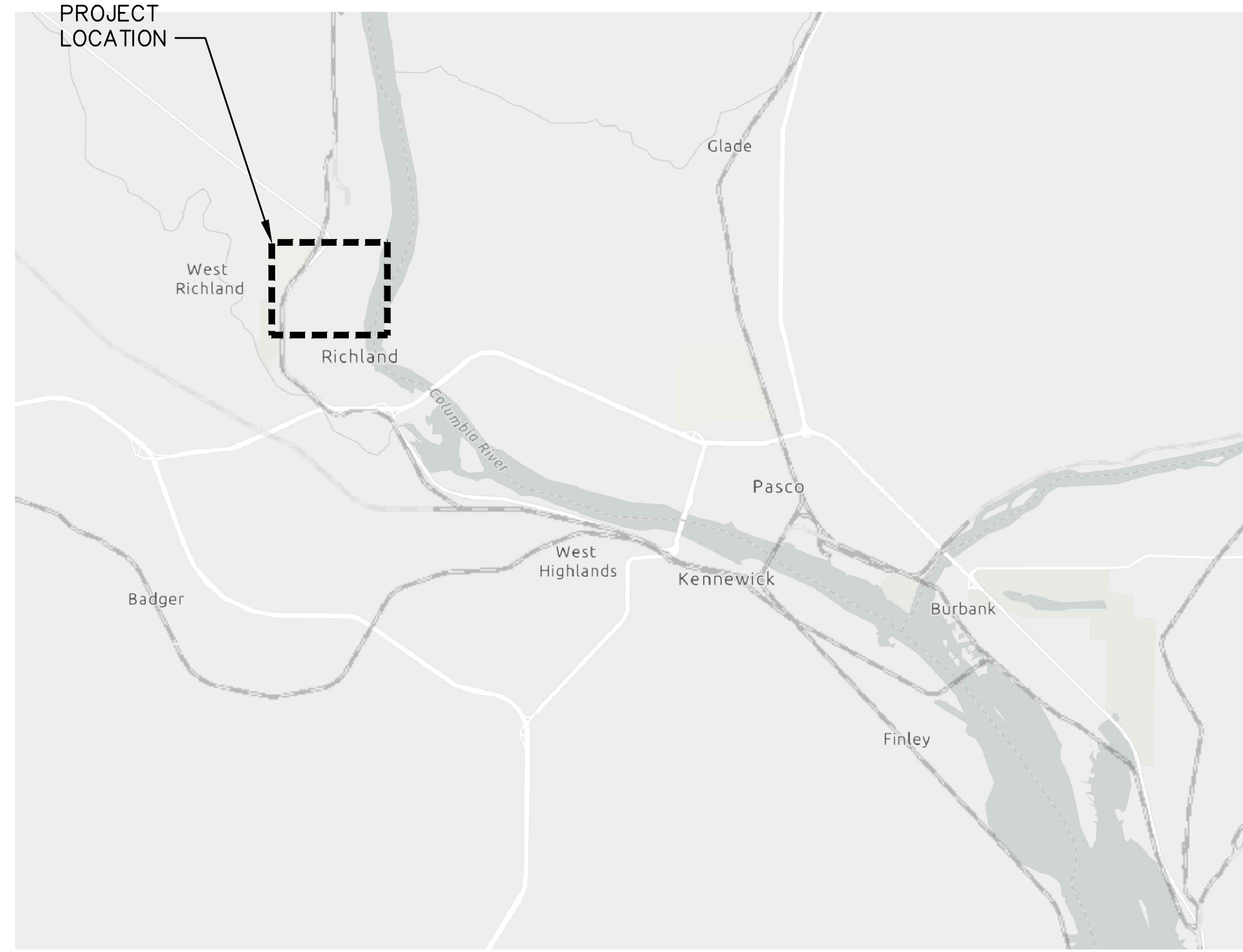
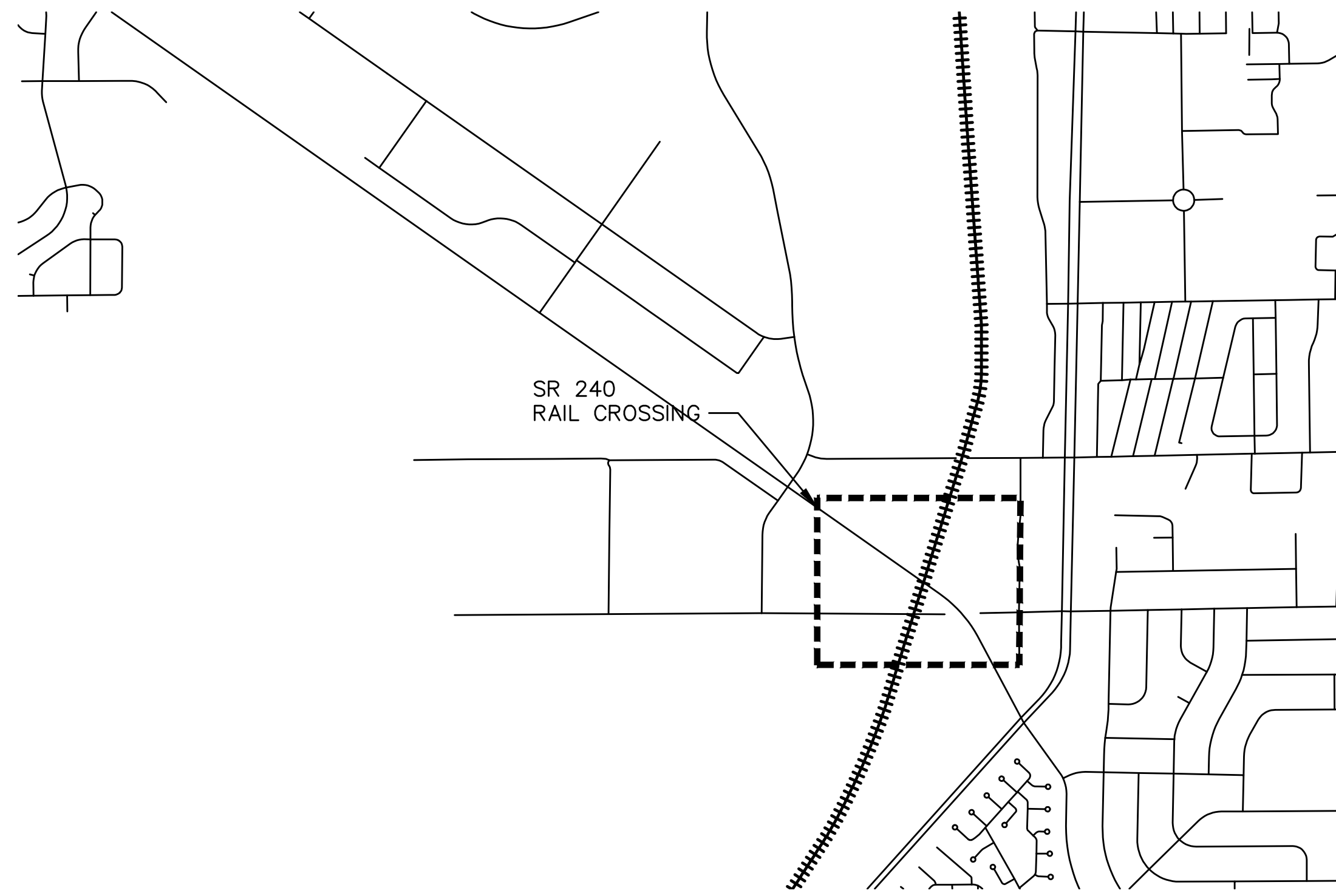


PORT OF BENTON WHITE BLUFF RAIL SR 240 RAIL CROSSING

PROJECT NUMBER: C2023-63
FEDERAL AID NUMBER: TBD



LOCATION MAP
SCALE: 1" = 500'



SHEET INDEX	
SHEET NUMBER	SHEET TITLE
1	G1 - COVER SHEET
2	G2 - GENERAL NOTES
3	G3 - EXISTING CONDITIONS
4	G4 - KEY PLAN
5	G5 - DETOUR ROUTE
6	G6 - SINGLE LANE CLOSURE TCP
7	G6 - TRAFFIC CONTROL PLAN
8	D1 - DEMO AND TESC PLAN
9	D2 - DEMO AND TESC DETAILS
10	C1 - PHASE 1 GRADING AND SITE FEATURES
11	C2 - PHASE 2 GRADING AND SITE FEATURES
12	C2 - GRADING AND SITE FEATURE SECTIONS
13	C3 - HORIZONTAL AND STRIPING CONTROL
14	C4 - CIVIL DETAILS
15	R1 - RAIL PLAN AND PROFILE
16	R2 - RAIL SIGNAL PROFILE
17	R3 - RAIL DETAILS

VICINITY MAP
SCALE: NTS



SHEET INDEX	
18	R4 - RAIL DETAILS
19	S1 - GRADE CROSSING SITE LAYOUT
20	S2 - GRADE CROSSING TRACK LAYOUT
21	S3 - DC POWER DISTRIBUTION
22	S4 - XTI INTERFACE
23	S5 - XP4 MODULE & 1-XIP-20B CIRCUITS
24	S6 - XP4 CHASSIS & MODULE CIRCUITS
25	S7 - XP4 CONFIGURATION PLAN
26	S8 - GATE A AND GATE B LIGHTING CIRCUITS
27	S9 - CANTILEVER C AND CANTILEVER D LIGHTING CIRCUITS
28	S10 - GATE A AND GATE B MECHANISM
29	S11 - DATA RECORDER CIRCUITS
30	S12 - AC POWER DISTRIBUTION
31	S13 - 36" TERMINAL BOARD LAYOUT
32	S14 - WALL "A" LAYOUT
33	S15 - WALL "C" LAYOUT

 3250 PORT OF BENTON BLVD, RICHLAND, WA 99354 (509) 974-3000	 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162	MARK: # # REVISION: # # BY: # # APPR: # # DATE: # #														
		APPROVED: <table border="1"> <tr> <td>JAV</td> <td>07/17/2024</td> </tr> <tr> <td>CHECKED BY</td> <td>DATE</td> </tr> <tr> <td>TJH</td> <td>07/17/2024</td> </tr> <tr> <td>PROJ. ENGR</td> <td>DATE</td> </tr> <tr> <td>DIRECTOR</td> <td>DATE</td> </tr> <tr> <td>PRINTED BY: josses Jul 17, 2024</td> <td></td> </tr> <tr> <td>PORT ADDRESS: 3250 PORT OF BENTON BLVD</td> <td></td> </tr> <tr> <td>RICHLAND WA, 99354</td> <td></td> </tr> </table>	JAV	07/17/2024	CHECKED BY	DATE	TJH	07/17/2024	PROJ. ENGR	DATE	DIRECTOR	DATE	PRINTED BY: josses Jul 17, 2024		PORT ADDRESS: 3250 PORT OF BENTON BLVD	
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PORT ADDRESS: 3250 PORT OF BENTON BLVD																
RICHLAND WA, 99354																
PROJECT # C2023-63 FEDERAL AID # TBD PHASE: BID SET	TOWNSHIP: 10N RANGE: 28E SECTION: 23 CITY OF RICHLAND NAVD88 VERT: N/A DRAWING SCALE: AS SHOWN	PORT OF BENTON WHITE BLUFF RAIL SR 240 RAIL CROSSING COVER SHEET														

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GENERAL NOTES:

- 1. A COPY OF THE CONTRACT DOCUMENTS, INCLUDING PLANS AND SPECIFICATIONS, SHALL BE ON-SITE WHENEVER CONSTRUCTION IS IN PROGRESS. THROUGHOUT THE PROGRESS OF THE WORK OF THIS CONTRACT, THE CONTRACTOR SHALL MAINTAIN ACCURATE RECORD OF ALL CHANGES IN THE CONTRACT DOCUMENTS. UPON COMPLETION OF THIS CONTRACT, THE CONTRACTOR SHALL PROVIDE ONE COMPLETE SET OF RECORD DOCUMENTS TO THE ENGINEER.
2. EXISTING SURFACE FEATURES ARE BASED ON SURVEY DATA BY PERMIT SURVEY AND OTHERS. ALL LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN HEREIN SHOULD BE CONSIDERED APPROXIMATE AND NOT NECESSARILY COMPLETE.
3. THE CONTRACTOR SHALL LOCATE ALL UTILITIES WITHIN THE PROJECT SITE PRIOR TO WORK. CONTRACTOR SHALL CONTACT 811 "CALL BEFORE YOU DIG" AND AN INDEPENDENT LOCATING SERVICE TO LOCATE ALL UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.
4. THE CONTRACTOR SHALL INDEPENDENTLY FIELD VERIFY, AND POTHOLE AS NEEDED, ALL DIMENSIONS OF EXISTING STRUCTURES, UTILITY LOCATIONS, ELEVATIONS, DIAMETERS, PIPE MATERIAL TYPES, AND OTHER FEATURES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BRING ANY CONFLICTS TO THE ENGINEERS ATTENTION PRIOR TO COMMENCING AFFECTED WORK. ANY DAMAGE TO EXISTING UTILITIES, OTHER FACILITIES, OR EQUIPMENT DUE TO THE CONTRACTORS NEGLIGENCE SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THIS INCLUDES ITEMS OUTSIDE THE WORK AREA THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES DURING EXECUTION OF THIS CONTRACT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TRAFFIC CONTROL REQUIRED FOR THE DURATION OF THIS PROJECT, PER CONTRACTOR'S OPERATIONS. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). BARRIERS SHALL BE LIGHTED AT NIGHT.
6.1. ALL BARRICADES, WARNING SIGNS, LIGHTS, DEVICES, ETC. FOR THE GUIDANCE OF VEHICLE TRAFFIC AND PEDESTRIANS MUST CONFORM TO THE INSTALLATION SHOWN IN THE 2009 "MANUAL ON TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", INCLUDING REVISION 1 AND 2 DATED MAY 2012.
6.2. CONTRACTOR SHALL MAKE DAILY INSPECTIONS OF ALL TRAFFIC CONTROL SIGNS TO ENSURE PROPER FUNCTIONING OF WARNING DEVICES.
6.3. ALL TRAFFIC CONTROL SAFETY DEVICES TO REMAIN IN PLACE FOR 24 HOURS PER DAY DURING RAIL CLOSURE.
7. CONTRACTOR SHALL PROVIDE SAFE TRENCHING PRACTICES AND EXCAVATION SHALL BE IN ACCORDANCE WITH STATE AND FEDERAL REQUIREMENTS.
8. CONTRACTOR-INITIATED CHANGE SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY SHALL NOT SATISFY THIS REQUIREMENT.
9. THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION DURING THE COURSE OF CONSTRUCTION. IF EXISTING MONUMENTS ARE DISTURBED, THEN THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN A CORNER REMOVAL PERMIT FROM THE DEPARTMENT OF NATURAL RESOURCES. ALL SURVEY MONUMENTATION SHALL BE DOCUMENTED, PRESERVED, PROTECTED, AND/OR REPLACED IN ACCORDANCE WITH RCW 58.24.040(8) AND WAC 332-120.
10. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PROJECT SPECIAL PROVISIONS; THE 2024 EDITION OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION; AND WSDOT STANDARD PLANS AND DETAILS. IN THE EVENT OF A CONFLICT, THE MOST RESTRICTIVE OF THESE PROVISIONS SHALL APPLY.
11. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE LICENSED AND BONDED TO DO WORK IN THE PUBLIC RIGHT-OF-WAY AND HAVE A CURRENT CITY OF RICHLAND BUSINESS LICENSE.

SURVEY DATA:

- 1. DATE OF SURVEY: SEPTEMBER THROUGH OCTOBER, 2023.
2. BASIS OF BEARING: NAD83(2011) WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.
3. UNITS OF MEASURE: US SURVEY FEET GRID DISTANCES.
4. VERTICAL DATUM: NAVD88 CITY OF RICHLAND CONTROL.
5. EQUIPMENT/PROCEDURES: TOPCON HIPER V, GNSS, RTK METHOD TO ESTABLISH CONTROL, TOPCON GTS-223 TOTAL STATION CONVENTIONAL TRAVERSE METHOD AND SOKIA 830 AUTO LEVEL FOR ELEVATIONS, LINEAR CLOSURES MEET OR EXCEED STANDARD CONTAINED IN WAC 332-130-090. CITY OF RICHLAND CONTROL POINTS:

CP1138 3" BRASS CAP IN MONUMENT CASE TERMINAL/LINDBERG N 354960.56 E 1943735.92 ELEV 398.75
CP1140 3" BRASS CAP IN MONUMENT CASE BUTLER/AVIATOR N 355566.43 E 1944427.79 ELEV 392.70

PROJECT CONTACTS:

PROJECT OWNER: PORT OF BENTON

PORT PROJECT MANAGER: ROGER WRIGHT, PE RGW ENTERPRISES, PC 3250 PORT OF BENTON BOULEVARD RICHLAND, WA 99354 (509) 366-7455 ROGER@RGWENTERPRISES.COM

GEOTECHNICAL ENGINEER CONTACT: CLINTON A. WILSON, PE SHANNON & WILSON 2705 SAINT ANDREWS LOOP, SUITE A PASCO, WA 99301 (509) 543-2860

CIVIL ENGINEER CONTACT: STEVE KINGSLEY, PE KPFF CONSULTING ENGINEERS 2407 NORTH 31ST STREET, SUITE 100 TACOMA, WA 98407 (253) 369-0150 STEVE.KINGSLEY@KPFF.COM

SIGNAL ENGINEER CONTACT: SAMUEL BUCHANAN, PE BENESCH (817) 415-2990

CONSTRUCTION SCHEDULE AND SEQUENCING

- 1. ALL PHASE 1 REQUIRING TRAFFIC CONTROL SHALL BE COMPLETED BETWEEN A THURSDAY AND MONDAY MORNING WITH THE TRAFFIC CONTROL LANE CLOSURES AS SHOWN ON THE SCHEDULE. CONSTRUCTION ACTIVITIES ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL SUBMIT AN HOUR BY HOUR WORKPLAN CONFIRMING COMPLETION OF WORK WITHIN THE ALLOWABLE WORK WINDOW AND LANE CLOSURES.
1.1. PHASE 1 SHALL CONSIST OF ALL WORK SHOWN ON THE PLANS EXCEPT FOR THE INSTALLATION OF THE NEW HOUSE, CROSSING CANTILEVER AND GATES, AND BARRIERS.
1.2. PHASE 1 WORK WILL NOT BE AUTHORIZED FOR COMPLETION DURING AUGUST 22-26 AND AUGUST 29-SEPTEMBER 2 DUE TO HIGHER THAN USUAL TRAFFIC. THE CONTRACTOR WILL BE PERMITTED TO CLOSE DOWN ONE LANE OF SR240 AT NOON ON THURSDAY AS SHOWN ON SHEET G6. FULL ROAD CLOSURE AS SHOWN ON G7 IS PERMITTED TO BEGIN THURSDAY AT 6PM. THE FULL ROAD CLOSURE SHALL BE IN PLACE UNTIL MONDAY MORNING AT 6AM. COORDINATE ROAD CLOSURE AND TRAFFIC CONTROL WITH WSDOT PROJECT 'RICHLAND CORRIDOR IMPROVEMENTS'.
1.4. THE CONTRACTOR SHALL OPEN SR240 ON MONDAY AT 6AM WITH ALL PHASE 1 WORK COMPLETE.
1.5. SITE WORK NOT REQUIRING TRAFFIC CONTROL OR FOWLING OF TRACK MAY BE COMPLETED PRIOR TO OR FOLLOWING THE THURSDAY THROUGH SUNDAY WORK.
2. PHASE 2 WORK MAY BE COMPLETED DURING TYPICAL WORK DAYS AND HOURS. THE PHASE 2 SCHEDULE IS PROVIDED FOR REFERENCE ONLY. THE CONTRACTOR SHALL SUBMIT A WORKPLAN CONFIRMING TOTAL NUMBER OF DAYS OF CONSTRUCTION AND WORK ACTIVITIES.
2.1. PHASE 2 SHALL CONSIST OF INSTALLATION OF THE NEW HOUSE, CROSSING CANTILEVER AND GATES, AND BARRIERS.
2.2. PHASE 2 WORK SHALL BE COMPLETED WITH SINGLE LANE CLOSURES.
2.3. THE CONTRACTOR SHALL PROVIDE 24/7 FLAGGING OR TRAFFIC CONTROL MEASURES TO CONTROL ROADWAY TRAFFIC WHEN NEITHER THE EXISTING OR NEW SIGNALS ARE ACTIVE.

PHASE 1 CONSTRUCTION SCHEDULE

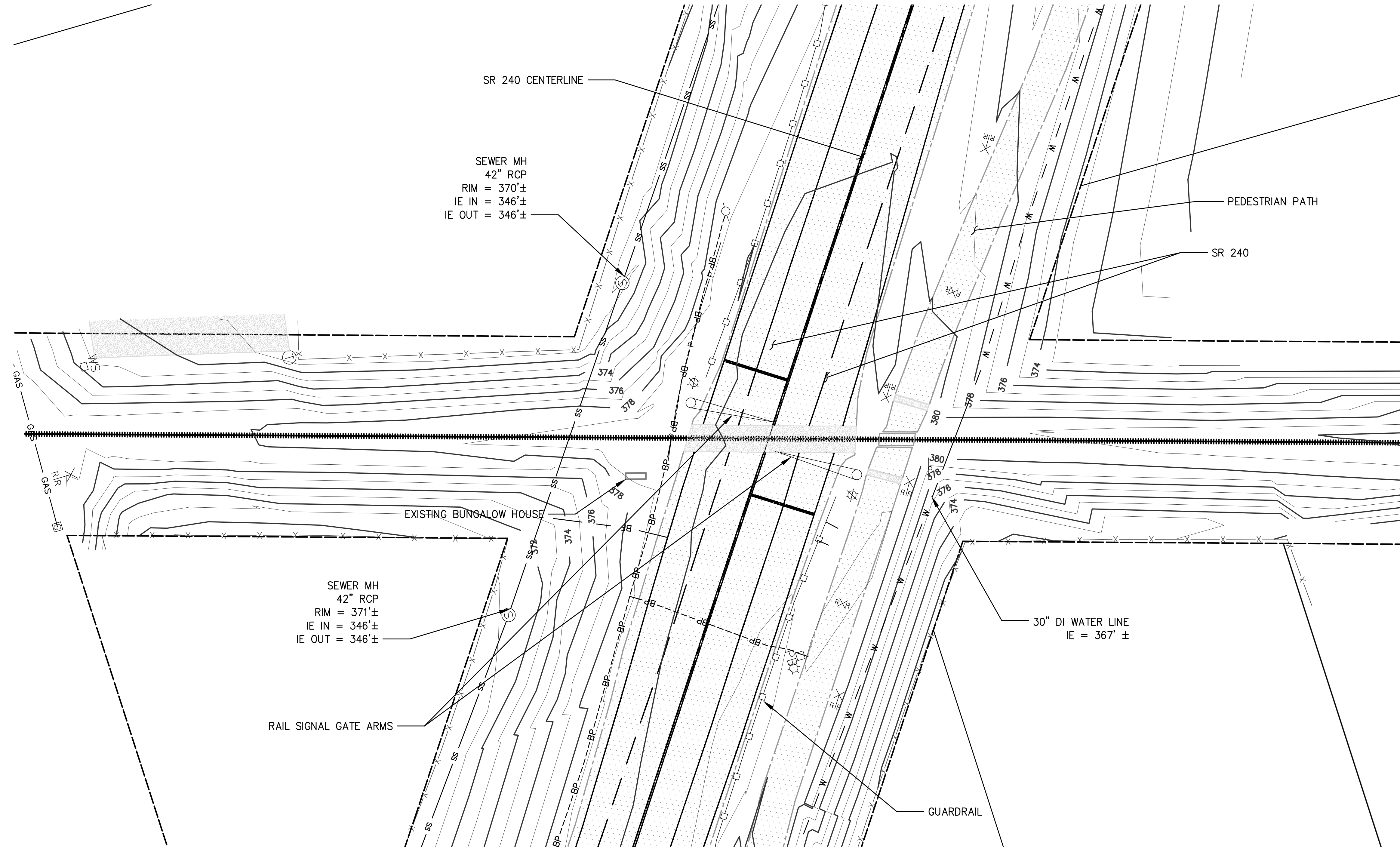
Table with columns: DAY, TIME, CLOSURE STATUS, ROADWAY, TRACK, OTHER, CONSTRUCTION ACTIVITY. Rows include THURSDAY, FRIDAY, SATURDAY, SUNDAY, MONDAY with specific closure times and activities like 'MOBILIZATION AND TRAFFIC CONTROL PREPARATION', 'WESTBOUND LANE PAVEMENT DEMO', 'EASTBOUND LANE PAVEMENT DEMO', 'WALKWAY PATH PAVEMENT DEMO', 'TRENCH AND INSTALL CONDUIT UNDER SR240, WALKWAY PATH, AND RAIL', 'SURFACE LINE AND GRADE TRACK THROUGH CROSSING. INSTALL CROSSING PANELS.', 'RESTORE AND GRADE SR240 SUBGRADE/BASE COURSE.', 'PAVE SR240 EAST OF CROSSING', 'PAVE SR240 WEST OF CROSSING', 'PAVE WALKWAY PATH', 'GENERAL SITE CLEANUP AND DEMOBILIZATION', 'COMPLETE PAVEMENT STRIPING. OPEN SR240 TO TRAFFIC.', 'REMOVE TRAFFIC CONTROL, OPEN SR240'.

PHASE 2 CONSTRUCTION SCHEDULE

Table with columns: DAY, TIME, CLOSURE STATUS, CONSTRUCTION ACTIVITY. Rows include MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY with closure times and activities like 'INSTALL WEST BOUND PRECAST FOUNDATIONS.', 'INSTALL EAST BOUND PRECAST FOUNDATIONS.', 'INSTALL EAST BOUND CANTILEVER AND GATE', 'INSTALL WEST BOUND CANTILEVER AND GATE', 'INSTALL TYPE F BARRIERS.', 'COMPLETE ACTIVATION OF NEW SIGNAL'.

NOTE: THE CONTRACTOR SHALL PROVIDE 24/7 FLAGGING OR TRAFFIC CONTROL MEASURES TO CONTROL ROADWAY TRAFFIC WHEN NEITHER THE EXISTING OR NEW SIGNALS ARE ACTIVE.

PORT OF BENTON logo, kpff logo, professional seal of Steve Kingsley, approval stamps for JAV, TJH, and Director Eng. Date, project information: PROJECT # C2023-63 OF 33, FEDERAL AID # TBD, PHASE: BID SET, TOWNSHIP: 10N, RANGE: 28E, SECTION: 23, DATE: 07/17/2024, DRAWING SCALE: AS SHOWN, PORT ADDRESS: 3250 PORT OF BENTON BLVD RICHLAND WA, 99354



EXISTING CONDITIONS SITE PLAN
SCALE: 1" = 20'

LEGEND

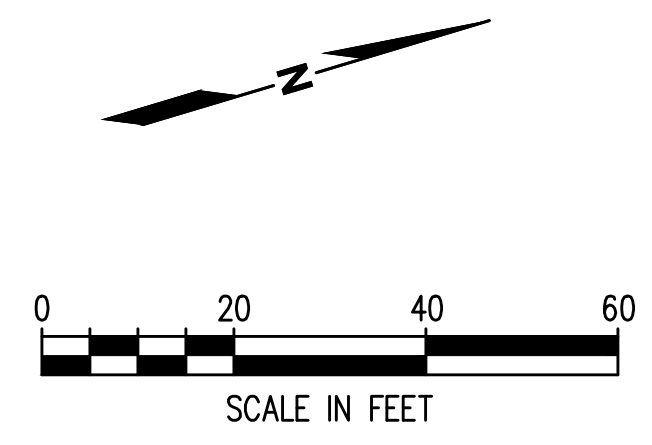
- X - X - X - FENCE
- □ - □ - GUARDRAIL
- P - P - POWER
- GAS - GAS - GAS
- - - - - RIGHT OF WAY
- ||||| TRACK
- W - WATER MAIN
- ss - SANITARY SEWER
- ▬ ASPHALT
- ▬ CONCRETE

SYMBOLOLOGY

- ⊙ LIGHT POLE
- PB POWER PULL BOX
- POWER POLE
- ✕ RAILROAD CROSSING SIGN
- ⊗ RAILROAD CROSSING LIGHT
- RAILROAD CROSSING ARM
- WS WATER SPIGOT
- ⊕ COMMUNICATION MANHOLE
- ⊕ UTILITY MANHOLE
- ⊕ GAS LINE MARKER

NOTES:

1. SURVEY WAS COMPLETED OCTOBER 2023 PRIOR TO COMPLETION SR240 SHOULDER WIDENING PROJECT IMPROVEMENTS COMPLETED BY WSDOT. CONDITIONS MAY VARY AT THE TIME OF CONSTRUCTION.
2. EXISTING SEWER AND WATER LINE INFORMATION IS SHOWN PER AS-BUILT INFORMATION AND SHALL BE CONSIDERED APPROXIMATE.



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	<p>JAN 07/17/2024 CHECKED BY: T.J.H. DATE: 07/17/2024</p>	<p>APPROVED: [Signature] DATE: 7/18/2024</p>
<p>PORT OF BENTON WHITE BLUFF RAIL SR 240 RAIL CROSSING EXISTING CONDITIONS</p>	<p>TOWNSHIP: 10N RANGE: 28E SECTION: 23 DATE-HRZ: W83-SF VERT: NAVD88 CITY OF RICHLAND PARCEL: N/A DRAWING SCALE: AS SHOWN</p>	<p>PRINTED BY: J. Housos Jul 17, 2024 PORT ADDRESS: 3250 PORT OF BENTON BLVD RICHLAND WA, 99354</p>
<p>G3 3 OF 33</p>	<p>PROJECT #: C2023-63 FEDERAL AID #: TBD PHASE: BID SET</p>	

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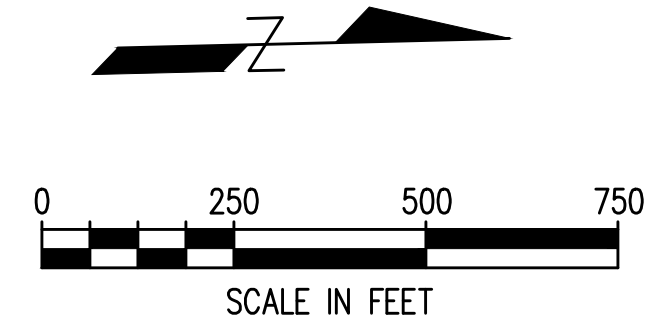


NOTES:

1. THE PORT IS PURCHASING ALL TRACK BALLAST AND WILL STOCKPILE IT AT THE INTERSECTION OF SAINT STREET AND THE TRACK. CONTRACTOR SHALL BE RESPONSIBLE FOR LOADING THE BALLAST FROM THE STOCKPILE ONTO A HIGH-RAIL TRUCK TO TRANSPORT TO THE PROJECT SITE.
2. THE CONTRACTOR WILL BE PROVIDED WITH APPROXIMATELY 175' OF TRACK FOR STORAGE OF RAIL EQUIPMENT. CONTRACTOR SHALL BE PERMITTED TO UTILIZE THIS STORAGE TRACK UP TO TWO WEEKS PRIOR TO START OF CONSTRUCTION AND TWO WEEKS FOLLOWING CONSTRUCTION COMPLETION, UNLESS APPROVED OTHERWISE.

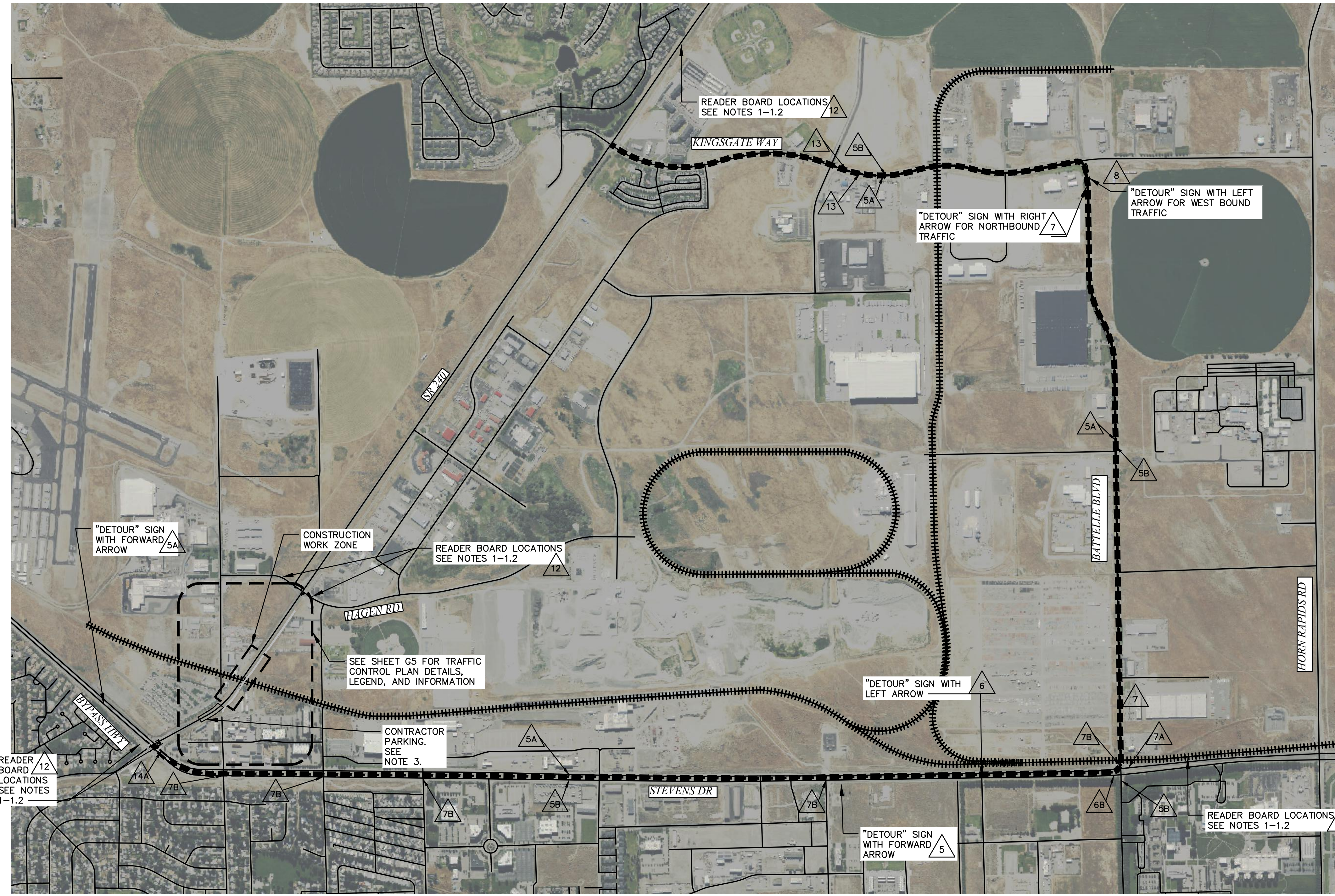
KEY PLAN AND LAYDOWN

SCALE: 1" = 250'

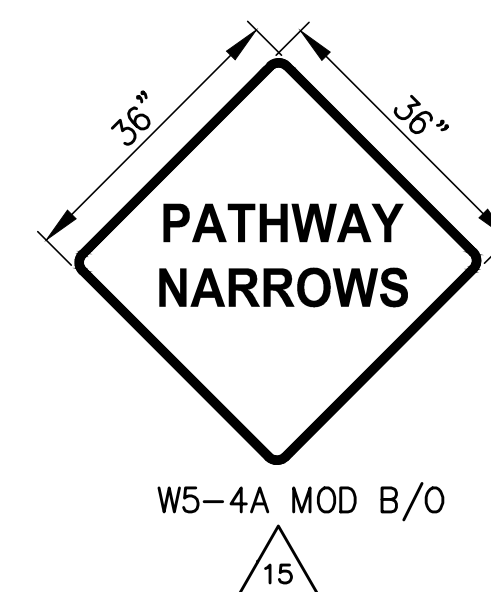
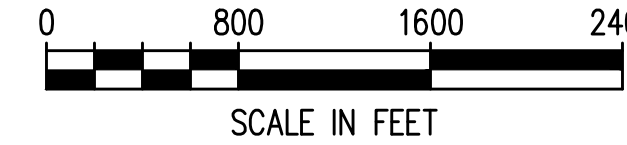


	PORT OF BENTON WHITE BLUFF RAIL SR 240 RAIL CROSSING KEY PLAN		APPROVED:	JAN 07/17/2024 CHECKED BY: T.J.H. PROJ. ENGR: T.J.H.
	PROJECT # C2023-63 FEDERAL AID # TBD PHASE: BID SET	TOWNSHIP: 10N RANGE: 28E DAT-HRZ: W83-SF PARCEL: N/A	SECTION: 23 CITY OF RICHLAND DRAWING SCALE: AS SHOWN	DIRECTOR ENG. DATE: Josses Jul 17, 2024 PRINTED BY: Josses Jul 17, 2024 PORT ADDRESS: 3250 PORT OF BENTON BLVD RICHLAND WA, 99354
				DATE: 7/18/2024
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DETOUR ROUTE
SCALE: 1" = 800'



TRAFFIC CONTROL SIGN LEGEND

W20-5 MOD B/O 1	W20-5 MOD B/O 2
SR 240 EAST CLOSED AHEAD	ROAD CLOSED
W20-2 B/O A-EAST B-WEST 3A 3B	R11-2 B/W 4
M4-9 MOD B/O A-EAST B-WEST 5A 5B	M4-9 MOD B/O A-EAST B-WEST 6A 6B
M4-9 MOD B/O A-EAST B-WEST 7A 7B	R11-4 B/O 8
R11-4 MOD B/W 9	R9-11 MOD B/W 10
R9-9 B/W 11	
	M4-9 MOD B/O A-EAST B-WEST 14A 14B
M4-9 MOD B/O 13	

PCMS	
1	2
SR 240	USE
CLOSED	DETOUR
AHEAD	ROUTE
2 SEC	2 SEC

LEGEND

- DETOUR ROUTE
- CONSTRUCTION WORK ZONE
- EXISTING RAIL
- ROADWAYS



GENERAL NOTES

1. ELECTRONIC READER BOARDS TO BE IN-PLACE AND ACTIVE AT LEAST 10 DAYS IN ADVANCE OF DETOUR
 - 1.1. READER BOARD 10 ADVANCE NOTICE SHALL READ "SR 240 CLOSED AT HAGEN ROAD SEPTEMBER 12-15".
 - 1.2. DURING ACTIVE DETOUR, READER BOARD SHALL READ "SR 240 CLOSED AHEAD. USE DETOUR ROUTE."
2. CONTRACTOR SHALL SUBMIT ANY CHANGES TO THIS TCP TO WSDOT FOR APPROVAL PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL KEEP ALL VEHICLES AND CONSTRUCTION EQUIPMENT OFF OF WALKWAY PAVEMENT.
4. WSDOT PROJECT 'RICHLAND CORRIDOR IMPROVEMENTS' WILL HAVE EXTENSIVE TRAFFIC CONTROL IN PLACE. COORDINATE WITH WSDOT ON THE PLACEMENT AND USAGE OF TRAFFIC CONTROL FOR THIS PROJECT.

TRAFFIC CONTROL SIGN NOTES

1. W20-5 (LEFT LANE CLOSURE) SHALL BE PLACED 800 FT FROM BYPASS HWY AND SR 240 INTERSECTION WITH DRUM CHANNELIZATION DEVICES.
2. W20-5 (RIGHT LANE CLOSURE) SHALL BE PLACED 800 FT FROM BYPASS HWY AND SR 240 INTERSECTION WITH DRUM CHANNELIZATION DEVICES.
3. W20-3 SHALL BE PLACED 800 FT FROM BYPASS HWY AND SR 240 INTERSECTION WITH DRUM CHANNELIZATION DEVICES. W20-3 SHALL BE PLACED 800 FT FROM KINGSGATE RD AND SR 240 INTERSECTION.
4. R11-2 SHALL BE PLACED ON TYPE 3 BARRICADES.
10. R9-11(MOD) SHALL BE PLACED ON TYPE 1 BARRICADES.
11. R9-9 SHALL BE PLACED ON TYPE 1 BARRICADES.
12. BOTTOM OF PCMS SHALL BE 7 FT ABOVE PAVEMENT AND SHALL BE VISIBLE 1/2 MILE TO ONCOMING TRAFFIC. SEE PCMS TABLE FOR MESSAGE.

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Tacoma, Washington 98407
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DATE: # # # # #

JAN 07/17/2024
CHECKED BY: TJH
DATE: 07/17/2024

APPROVED: DIRECTOR ENGR. DATE: Jvsoss Aug 27, 2024

PRINTED BY: Jvsoss Aug 27, 2024

PORT ADDRESS: 3250 PORT OF BENTON BLVD
RICHLAND WA, 99354

PORT OF BENTON
WHITE BLUFF RAIL SR 240 RAIL CROSSING
DETOUR ROUTE

PROJECT #: C2023-63
FEDERAL AID #: TBD
PHASE: BID SET

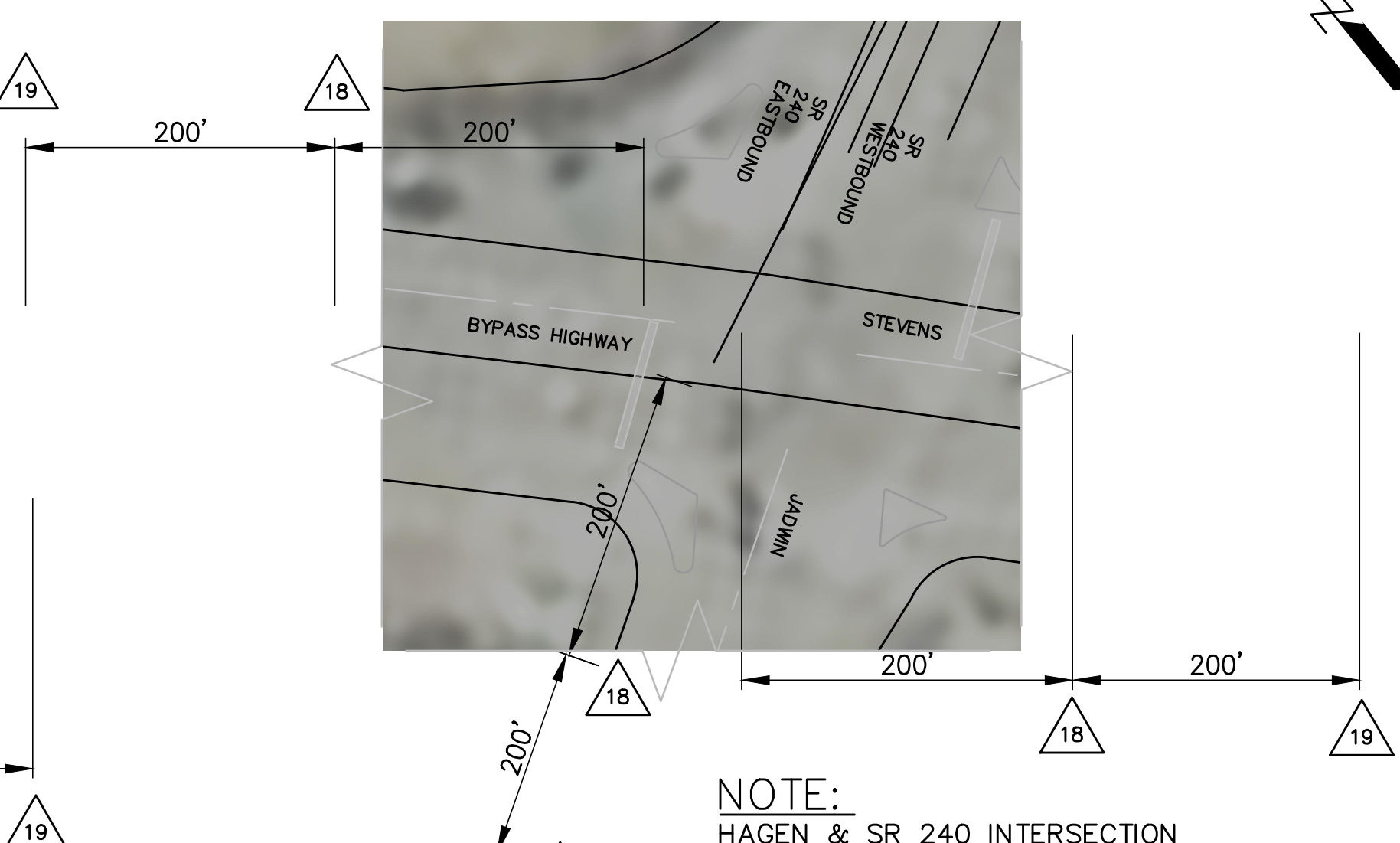
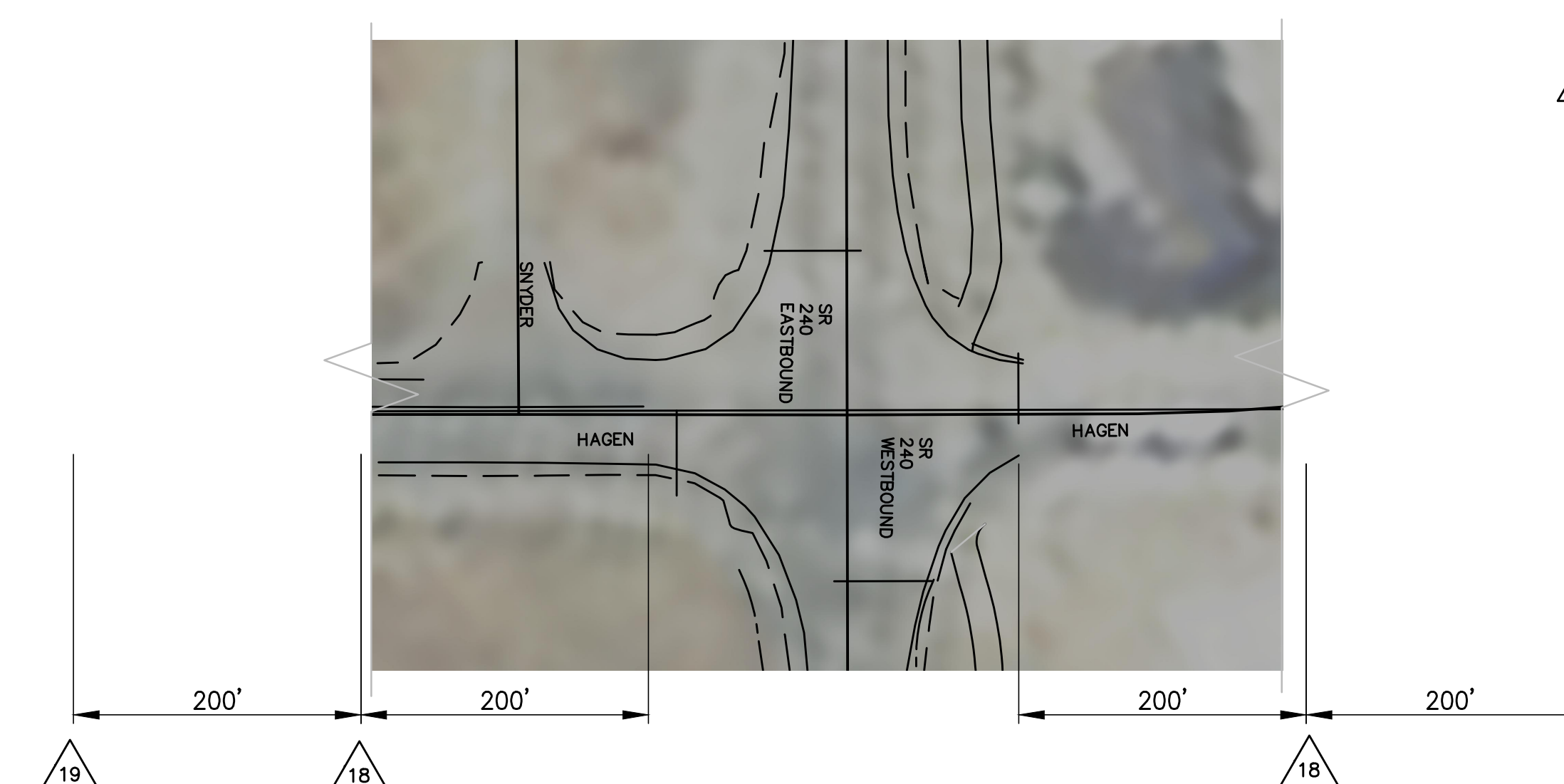
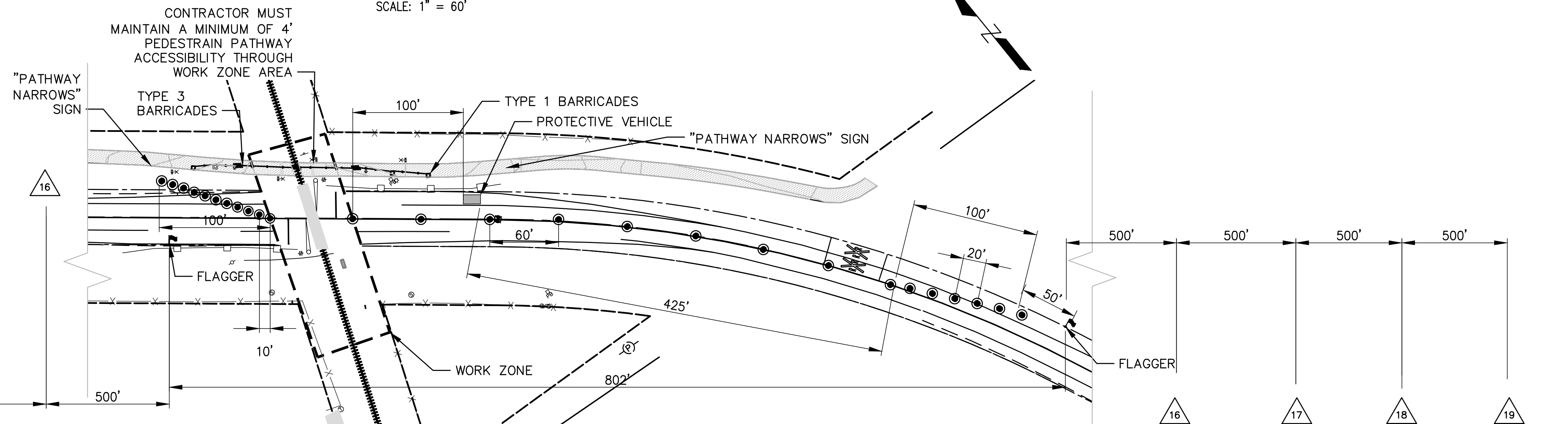
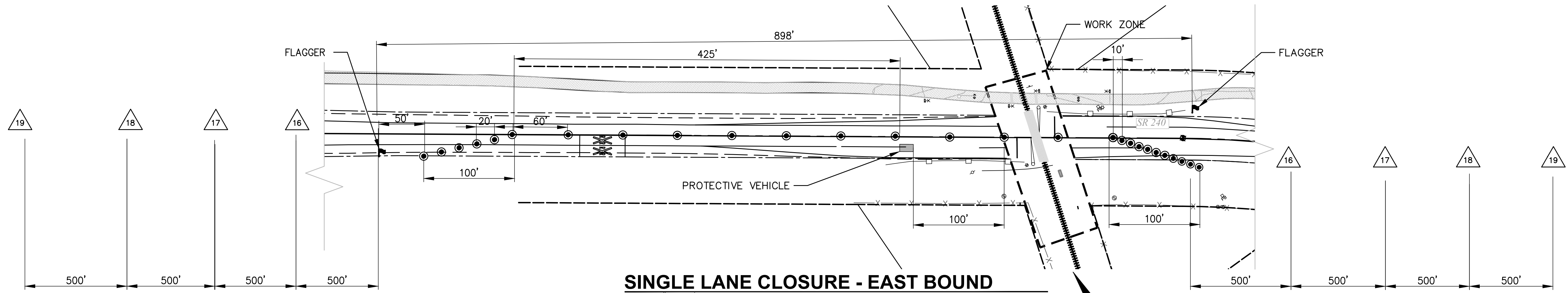
TOWNSHIP: 10N
RANGE: 28E
SECTION: 23

DATE-HRZ: W83-SF
VERT: NAVD88 CITY OF RICHLAND

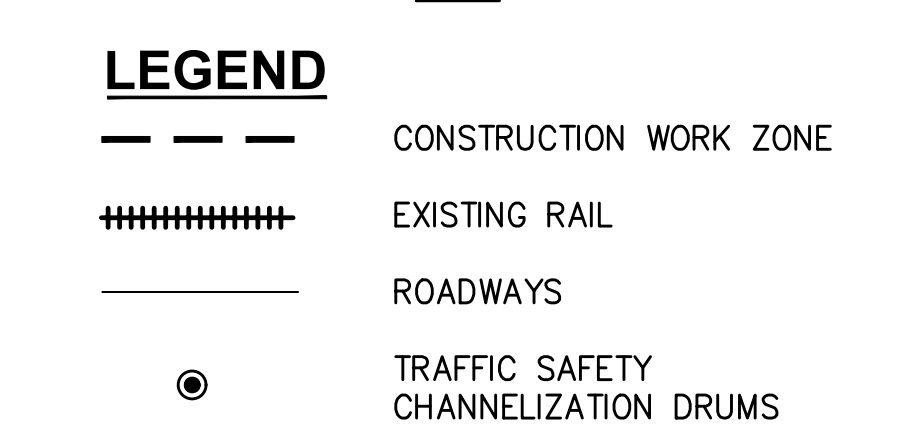
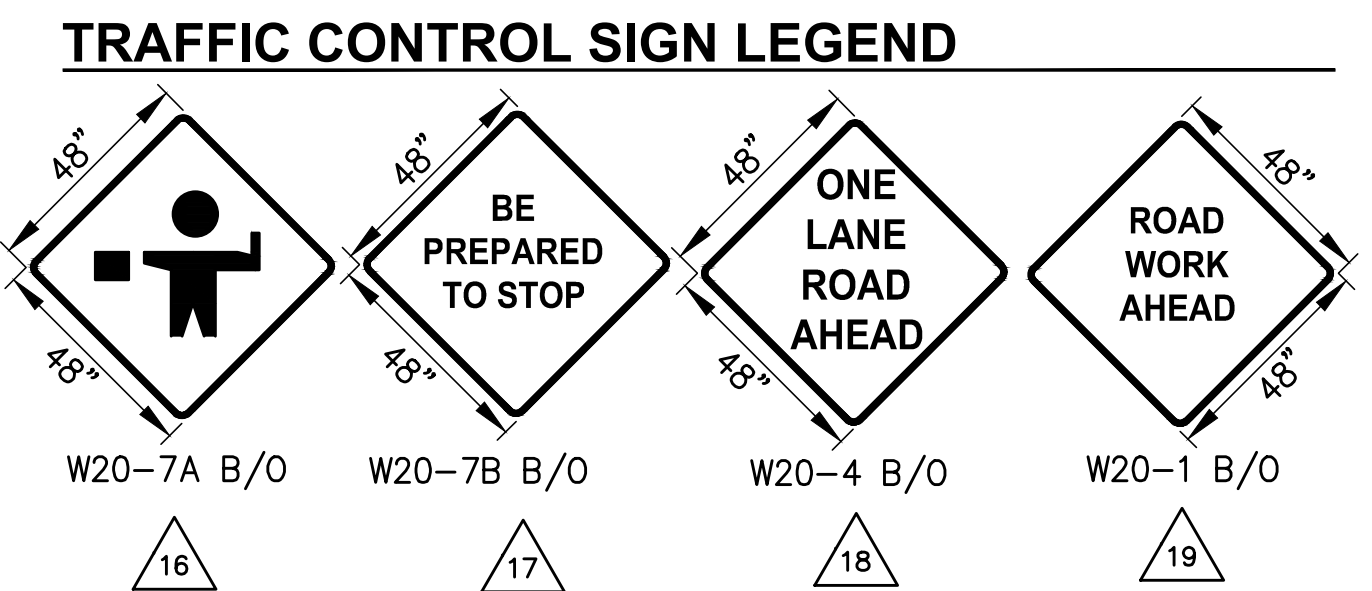
PARCEL: N/A
DRAWING SCALE: AS SHOWN

G5 OF 33

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NOTE:
HAGEN & SR 240 INTERSECTION SIGNAGE TO SHALL BE INSTALLED FOR EASTBOUND AND WESTBOUND SINGLE LANE CLOSURES.



- GENERAL NOTES**
1. WSDOT PROJECT 'RICHLAND CORRIDOR IMPROVEMENTS' WILL HAVE EXTENSIVE TRAFFIC CONTROL IN PLACE. COORDINATE WITH WSDOT ON THE PLACEMENT AND USAGE OF TRAFFIC CONTROL FOR THIS PROJECT.
 2. ALL SIGNS SHOWN FOR SINGLE LANE CLOSURE SHALL BE 48"x48" AND BLACK AND ORANGE PER WSDOT WORK ZONE TRAFFIC CONTROL GUIDELINES.

PORT OF BENTON
3250 PORT OF BENTON BLVD, RICHLAND, WA 99354
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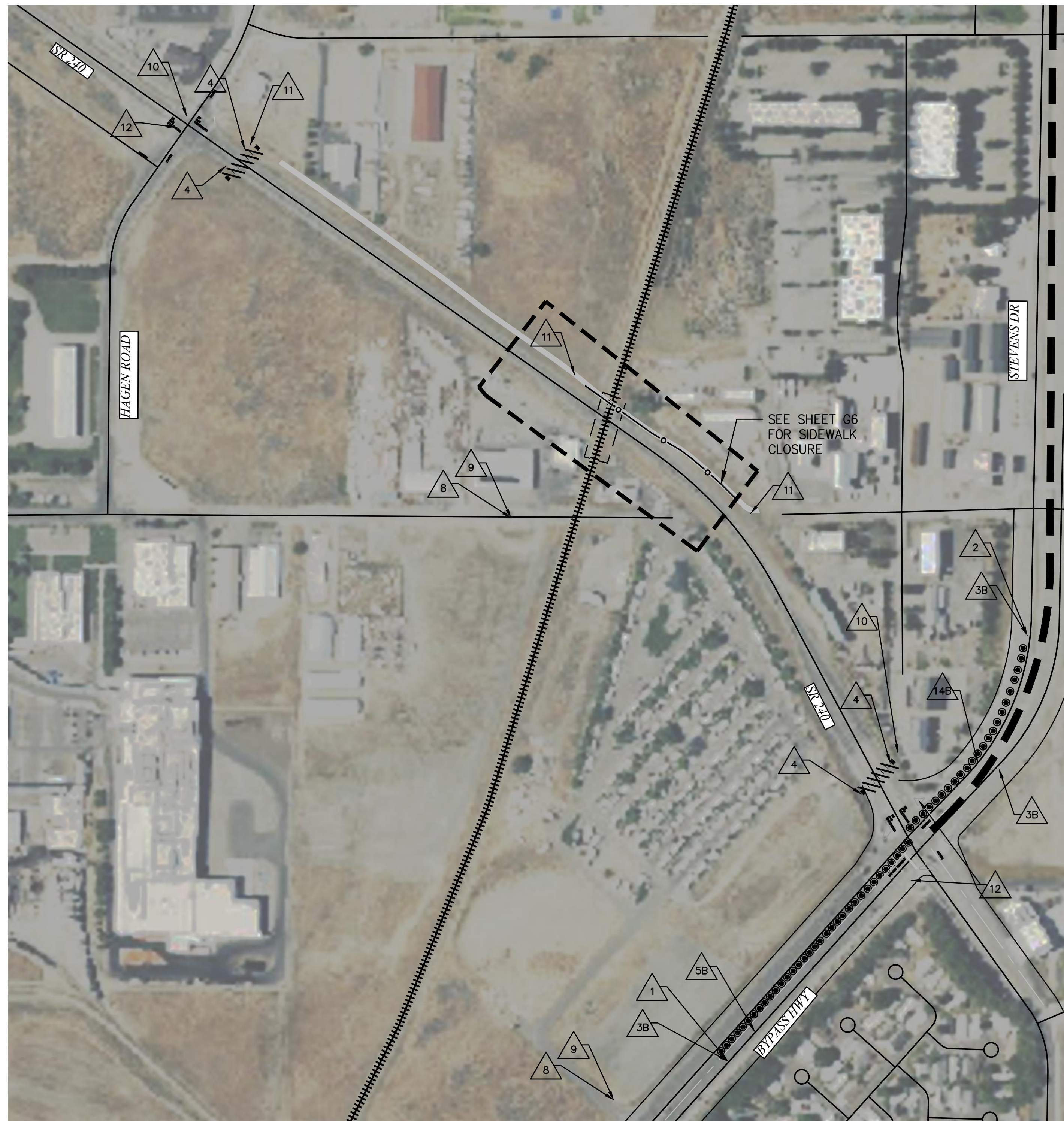
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DATE: # #

PORT OF BENTON
WHITE BLUFF RAIL SR 240 RAIL CROSSING
SINGLE LANE CLOSURE TRAFFIC CONTROL PLAN

G6 OF 33
PROJECT #: C2023-63
FEDERAL AID #: TBD
PHASE: BID SET

TOWNSHIP: 10N
RANGE: 28E
SECTION: 23
DATE-HRZ: W83-SF
VERT: NAVD88 CITY OF RICHLAND
PARCEL: N/A
DRAWING SCALE: AS SHOWN

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FULL CLOSURE - TRAFFIC CONTROL PLAN
SCALE: 1" = 200'

GENERAL NOTES

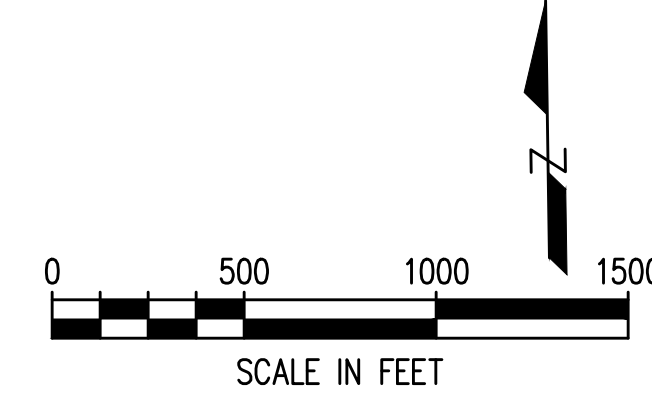
1. WSDOT PROJECT 'RICHLAND CORRIDOR IMPROVEMENTS' WILL HAVE EXTENSIVE TRAFFIC CONTROL IN PLACE. COORDINATE WITH WSDOT ON THE PLACEMENT AND USAGE OF TRAFFIC CONTROL FOR THIS PROJECT. LOCATION OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND MAY BE RELOCATED TO AVOID OBSTRUCTIONS. CONTRACTOR SHALL COVER CONFLICTING SIGNAGE.
2. THE CONTRACTOR SHALL GIVE SUFFICIENT NOTICE OF CLOSURE TO WSDOT SO THAT ENOUGH TIME IS GIVEN TO ADJUST SIGNAL TIMING AND DETECTION ZONES OF EXISTING SIGNAL SYSTEMS DURING CONSTRUCTION IF NECESSARY. SEE SPECIAL CONDITIONS FOR AVAILABLE CLOSURE DATES AND DURATIONS.
3. WITHIN WSDOT RIGHT OF WAY, ALL WORK ZONE AND TRAFFIC CONTROL ELEMENTS SHALL FOLLOW THE CURRENT WSDOT WORK ZONE TRAFFIC CONTROL GUIDELINES. THE CONTRACTOR SHALL GIVE SUFFICIENT ADVANCE NOTICE TO STREET CLOSURE TO ALL AGENCIES PROVIDING EMERGENCY SERVICES, INCLUDING, AND WITHOUT LIMITATION; POLICE, FIRE, AND AMBULANCE SERVICES. SEE SPECIAL CONDITIONS FOR AVAILABLE CLOSURE DATES AND DURATIONS.

LEGEND

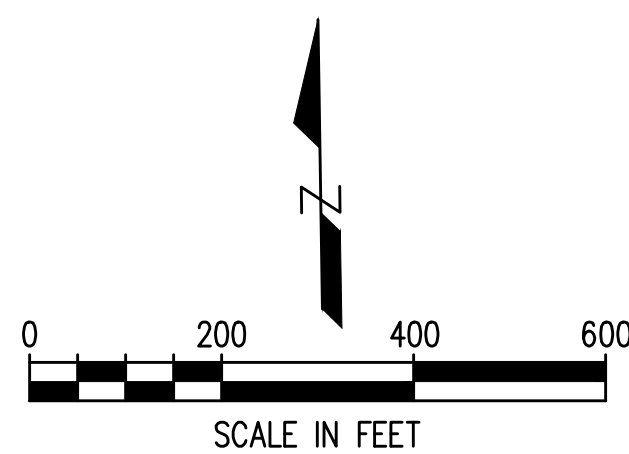
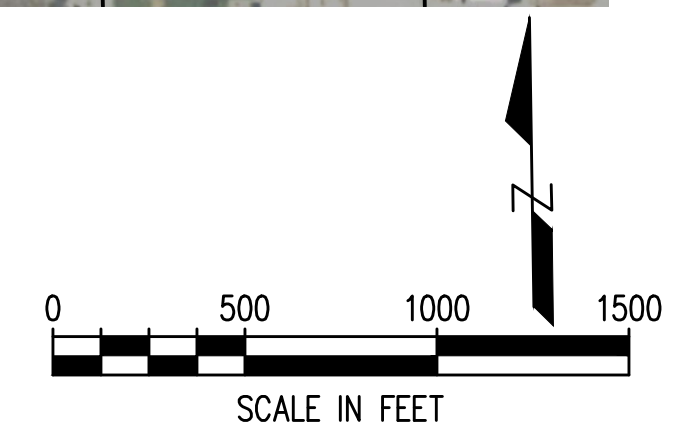
- DETOUR ROUTE
- CONSTRUCTION WORK ZONE
- EXISTING RAIL
- ROADWAYS
- TYPE 3 BARRICADES
- TRAFFIC SAFETY CHANNELIZATION DRUMS
- TEMPORARY FENCING



KINGSGATE PCMS PLACEMENT
SCALE: 1" = 500'


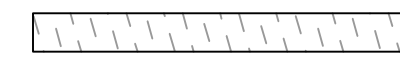
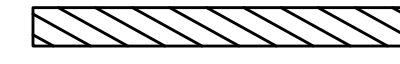
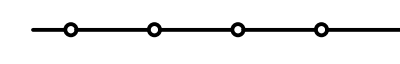



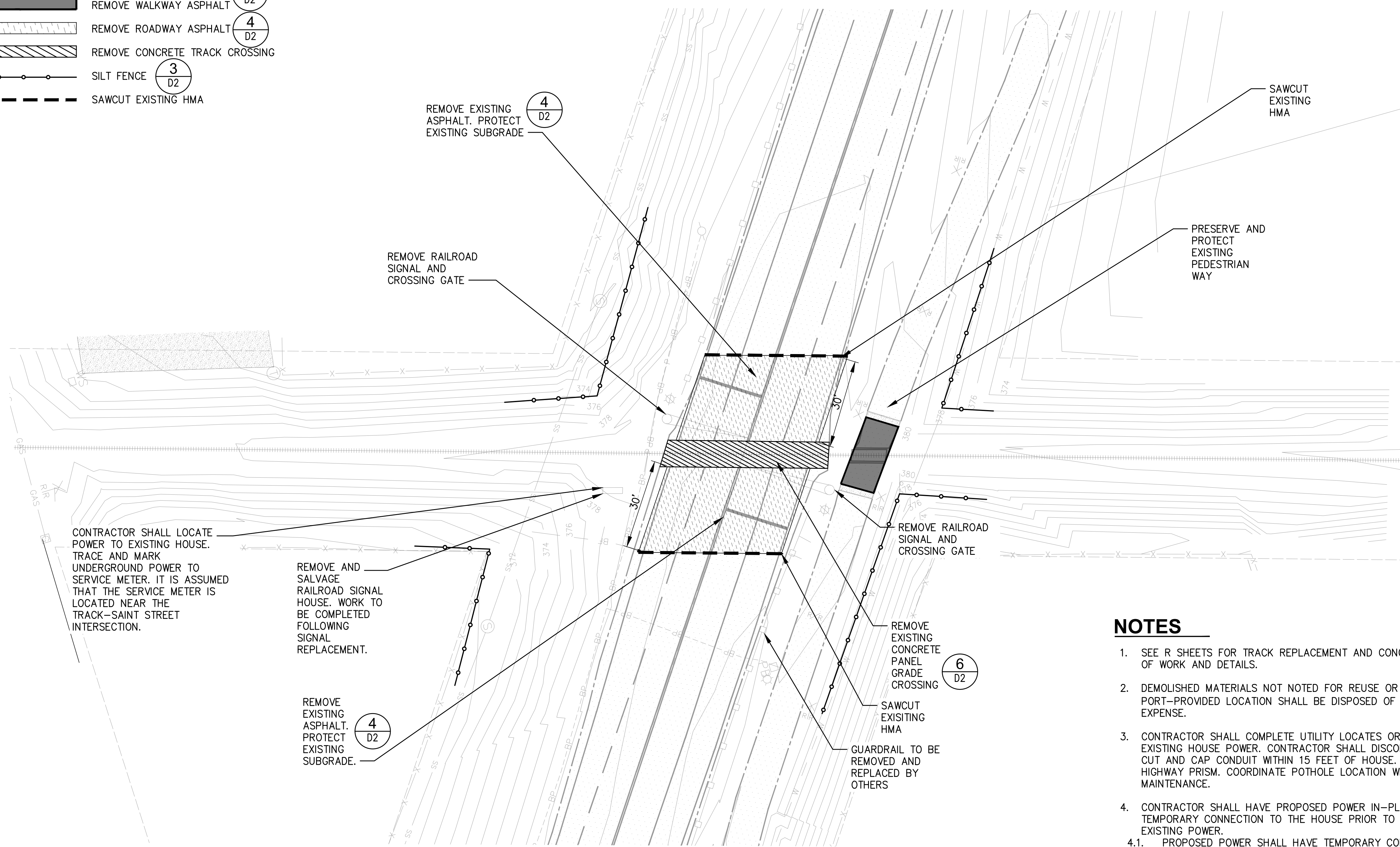
BATTELLE BLVD PLAN
SCALE: 1" = 500'



	2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162		APPR: # # # BY: # # # REVISION: # # #	DATE: # # # # # # # # #
APPROVED:	CHECKED BY: TJH	DATE: 07/17/2024	DIRECTOR ENG. DATE: jvosses Aug 27, 2024	PROJ. ENGR DATE: 07/17/2024
PORT OF BENTON WHITE BLUFF RAIL SR 240 RAIL CROSSING TRAFFIC CONTROL PLAN	RANGE: 28E TOWNSHIP: 10N DAT-HRZ: W83-SF PARCEL: N/A	SECTION: 23 CITY OF RICHLAND DRAWING SCALE: AS SHOWN	PRINTED BY: jvosses Aug 27, 2024 PORT ADDRESS: 3250 PORT OF BENTON BLVD RICHLAND WA, 99354	PROJECT #: C2023-63 FEDERAL AID #: TBD PHASE: BID SET
G7 7 OF 33	THIS DRAWING IS THE PROPERTY OF THE PORT OF BENTON AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION			

LEGEND

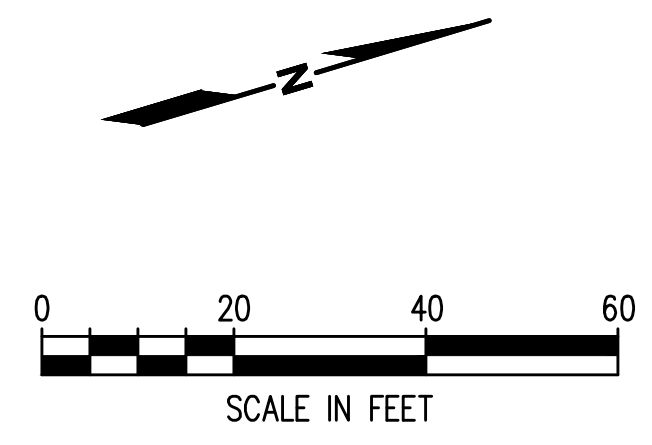
-  REMOVE WALKWAY ASPHALT 5
D2
-  REMOVE ROADWAY ASPHALT 4
D2
-  REMOVE CONCRETE TRACK CROSSING
-  SILT FENCE 3
D2
-  SAWCUT EXISTING HMA

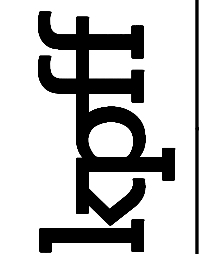




DEMOLITION AND TESC PLAN
SCALE: 1" = 20'

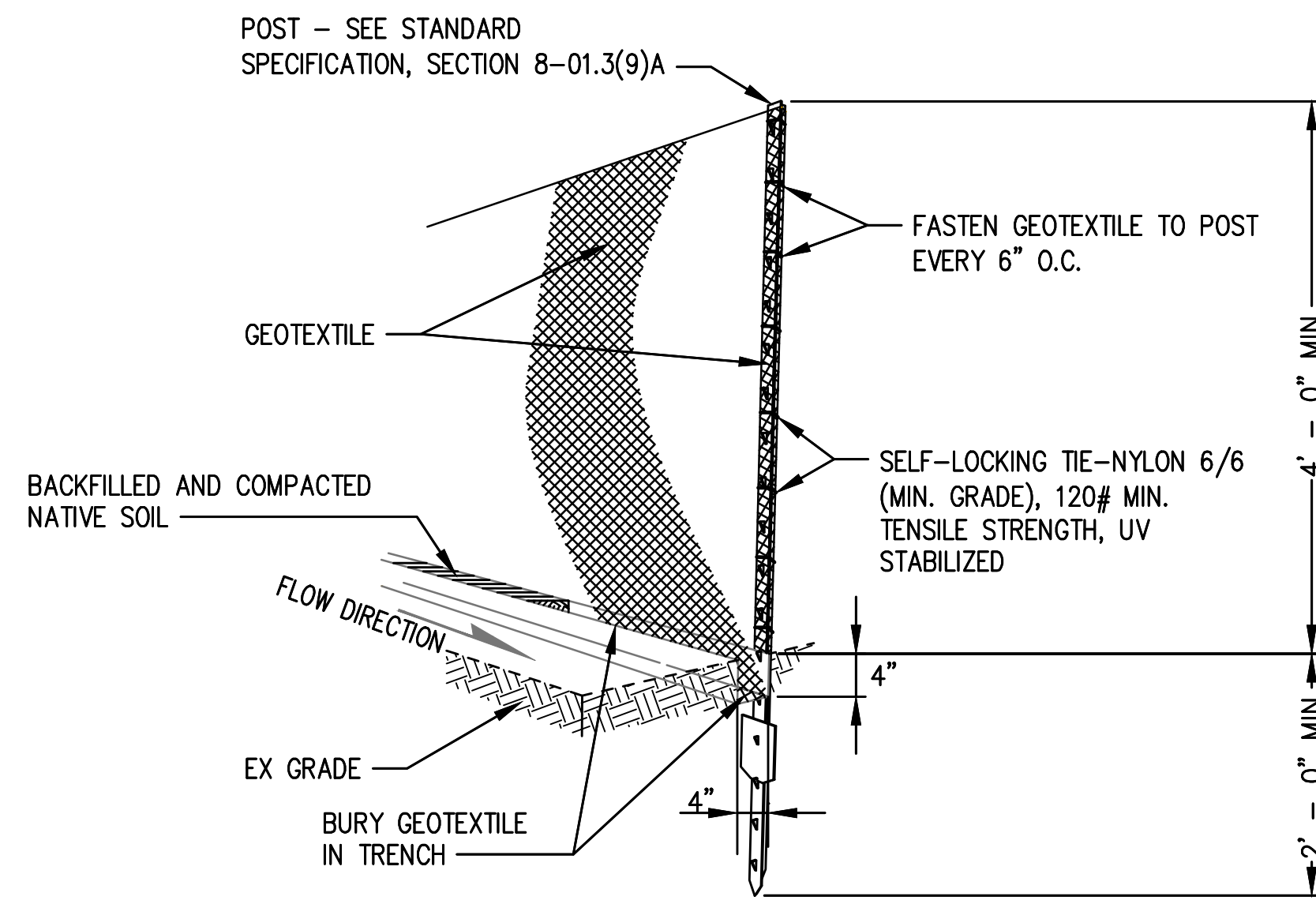
NOTES

1. SEE R SHEETS FOR TRACK REPLACEMENT AND CONCRETE CROSSING SCOPE OF WORK AND DETAILS.
2. DEMOLISHED MATERIALS NOT NOTED FOR REUSE OR STOCKPILED AT PORT-PROVIDED LOCATION SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL COMPLETE UTILITY LOCATES OR POTHOLING TO LOCATE EXISTING HOUSE POWER. CONTRACTOR SHALL DISCONNECT EXISTING POWER, CUT AND CAP CONDUIT WITHIN 15 FEET OF HOUSE. POTHOLE OUTSIDE OF HIGHWAY PRISM. COORDINATE POTHOLE LOCATION WITH WSDOT MAINTENANCE.
4. CONTRACTOR SHALL HAVE PROPOSED POWER IN-PLACE AND READY FOR A TEMPORARY CONNECTION TO THE HOUSE PRIOR TO DISCONNECTION OF EXISTING POWER.
 - 4.1. PROPOSED POWER SHALL HAVE TEMPORARY CONNECTION TO EXISTING BUNGALOW UNTIL NEW SIGNAL AND HOUSE ARE INSTALLED.
5. SIGNAL AND CROSSING GATE IS TO REMAIN IN-PLACE AND ACTIVE UNTIL SIGNAL WORK IS COMPLETED AS PART OF PHASE 2.



D1 8 OF 33	PORT OF BENTON WHITE BLUFF RAIL SR 240 RAIL CROSSING DEMO AND TESC PLAN		APPROVED: JAV 07/17/2024 CHECKED BY DATE	DATE 07/17/2024
	PROJECT # C2023-63	TOWNSHIP: 10N	RANGE: 28E	SECTION: 23
FEDERAL AID # TBD	DATE-HRZ: W83-SF	VERT: NAD88	CITY OF RICHLAND	
PHASE: BID SET	PARCEL: N/A	DRAWING SCALE: AS SHOWN	PRINTED BY: jmoscos Jul 17, 2024 PORT ADDRESS: 3250 PORT OF BENTON BLVD RICHLAND, WA, 99354	
		 Steve M. Adams PROFESSIONAL ENGINEER No. 1000000000 State of Washington 7/18/2024		
		2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 (800) 974-3000		
		MARK: #	REVISION: #	DATE: #
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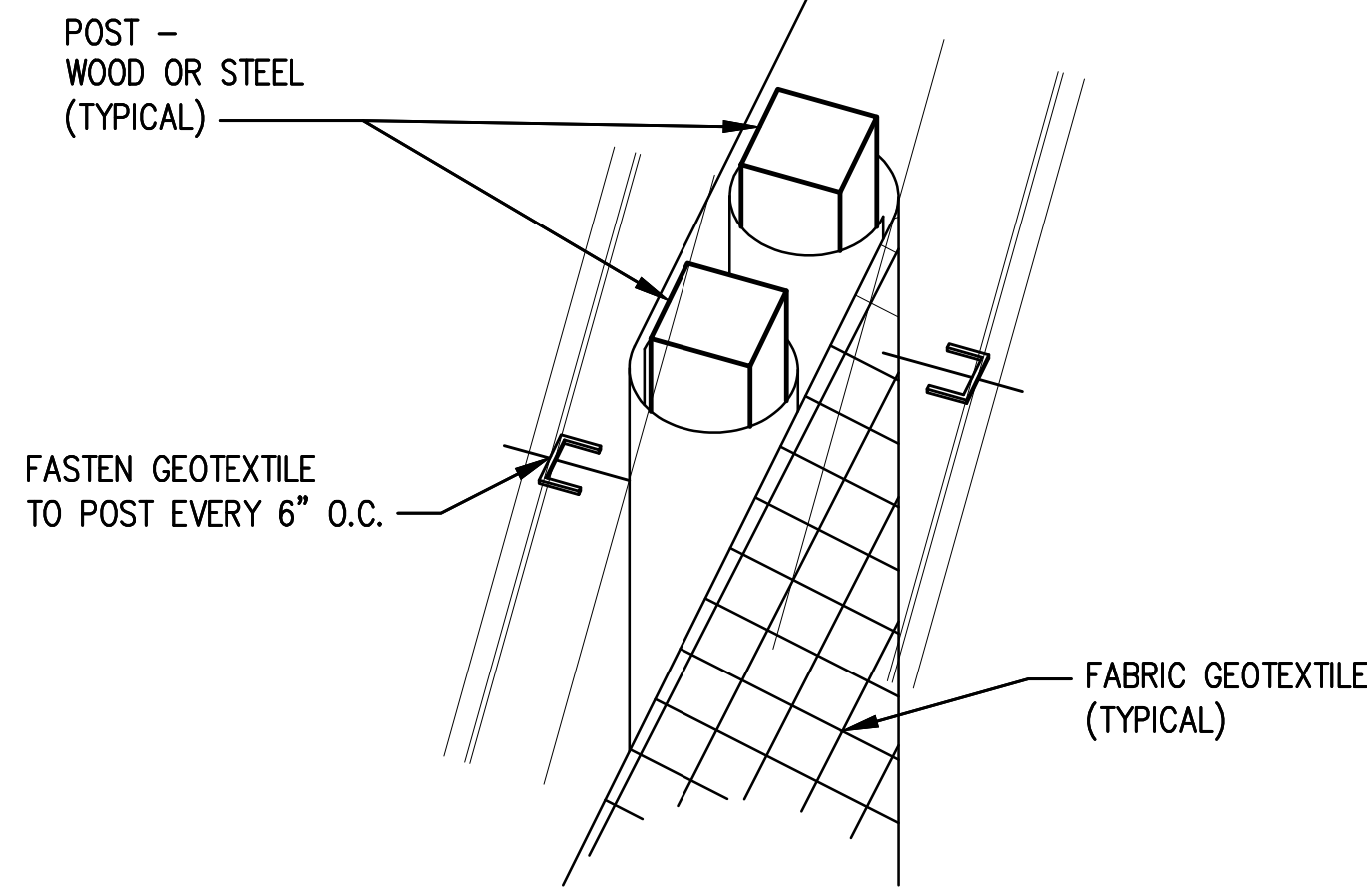
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NOTE:

1. DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE, AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS. COMPACTION MUST BE ADEQUATE TO PREVENT UNDERCUTTING FLOWS.

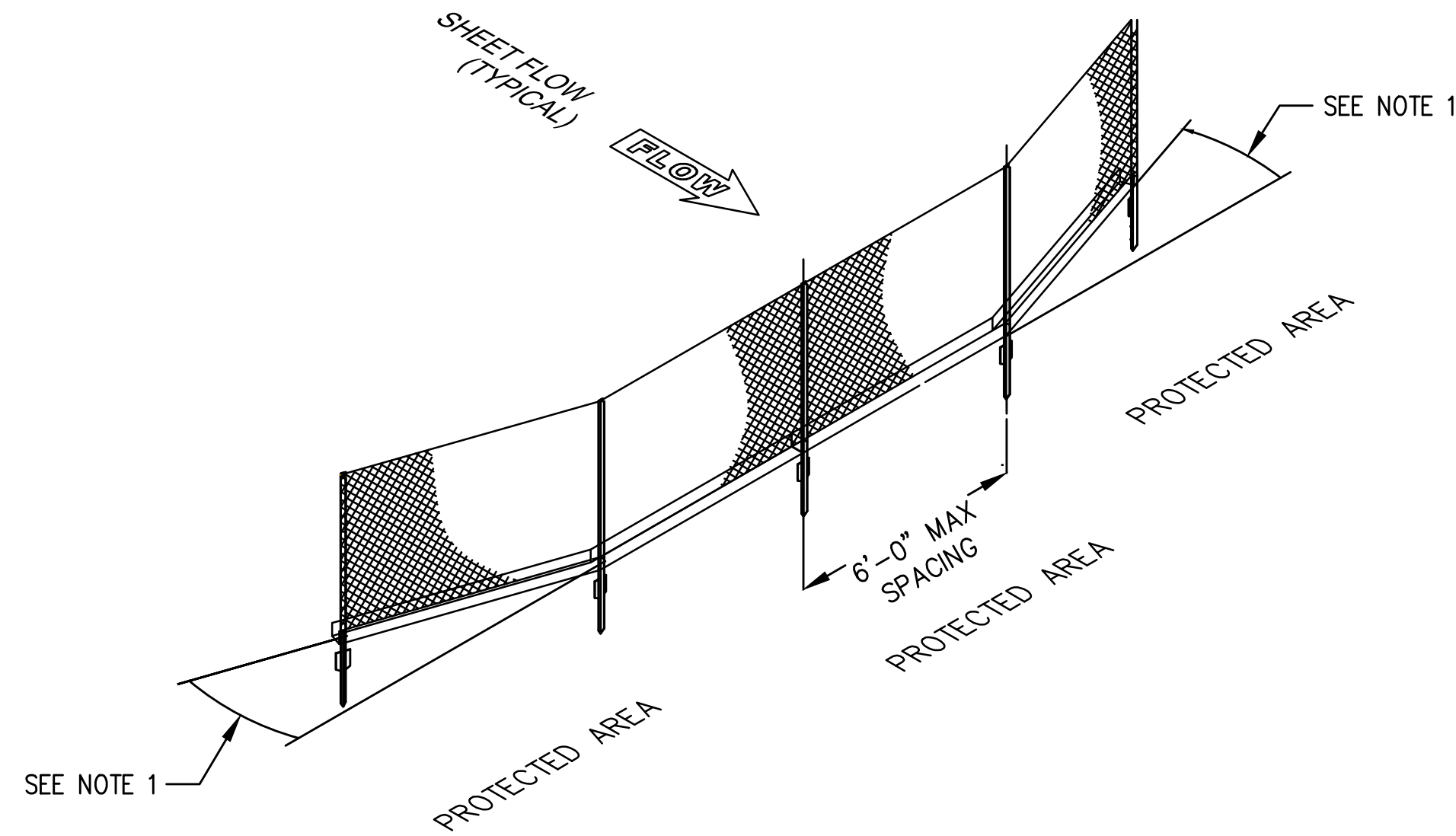
1 TYPICAL SILT FENCE INSTALLATION DETAIL
NTS



NOTE:

1. SPLICED FENCE SECTIONS SHALL BE CLOSE ENOUGH TOGETHER TO PREVENT SILT LADEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP. WOOD POSTS SHOWN.

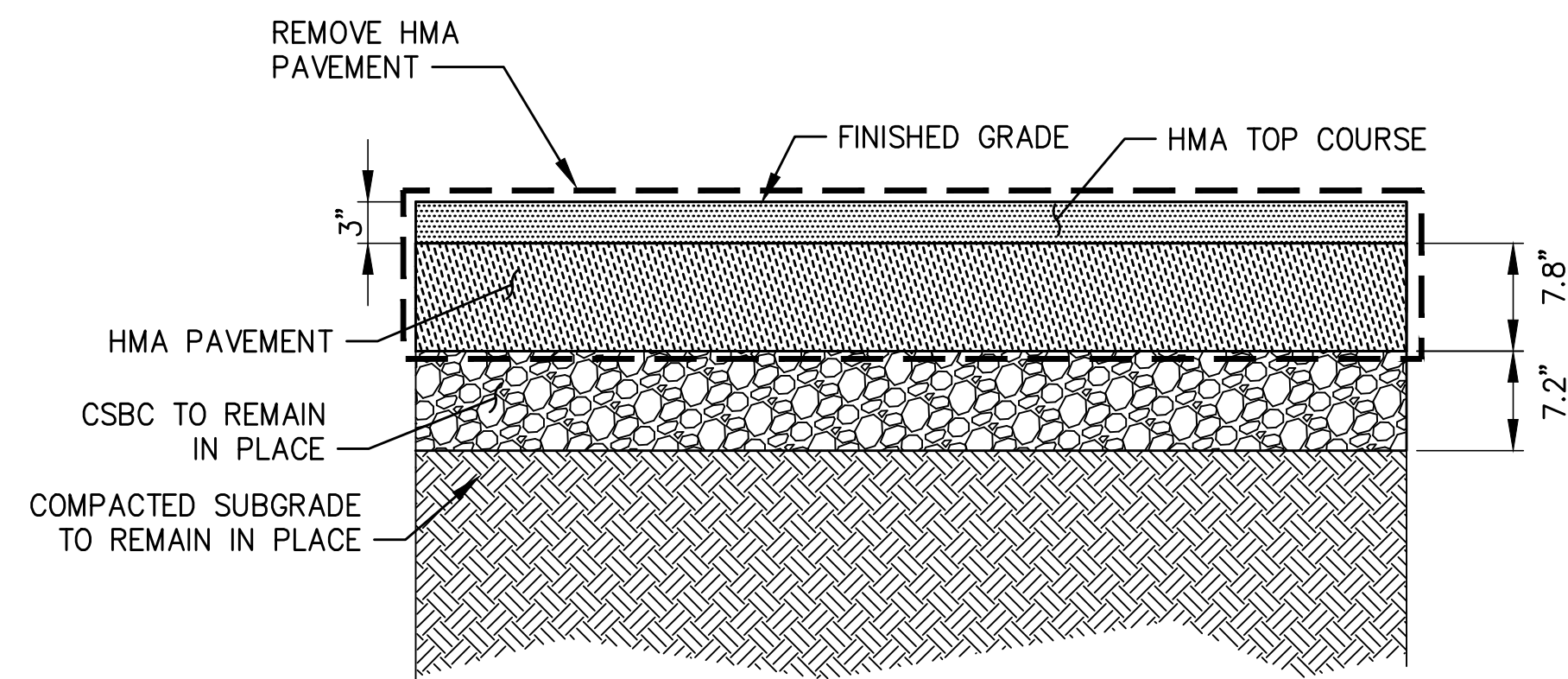
2 TYPICAL SILT FENCE SPLICE DETAIL
NTS



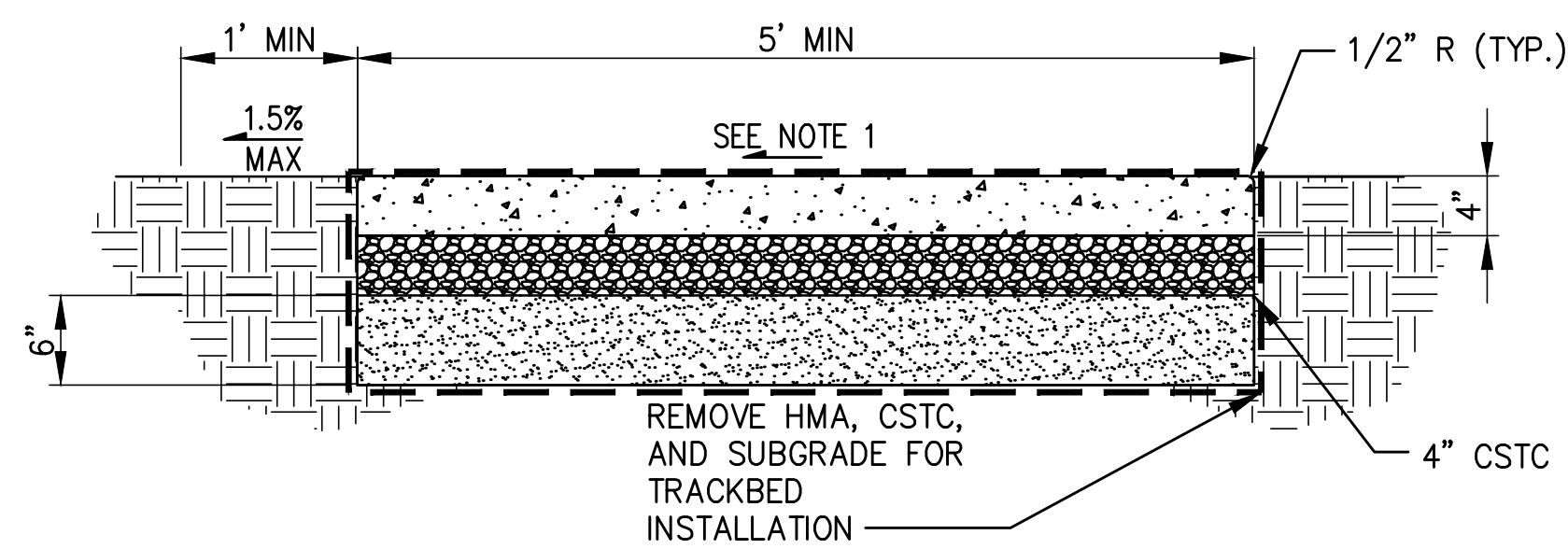
NOTE:

1. SHOWN WITHOUT BACKUP SUPPORT AND WITH STEEL POST

3 TYPICAL SILT FENCE DETAIL
D1 NTS



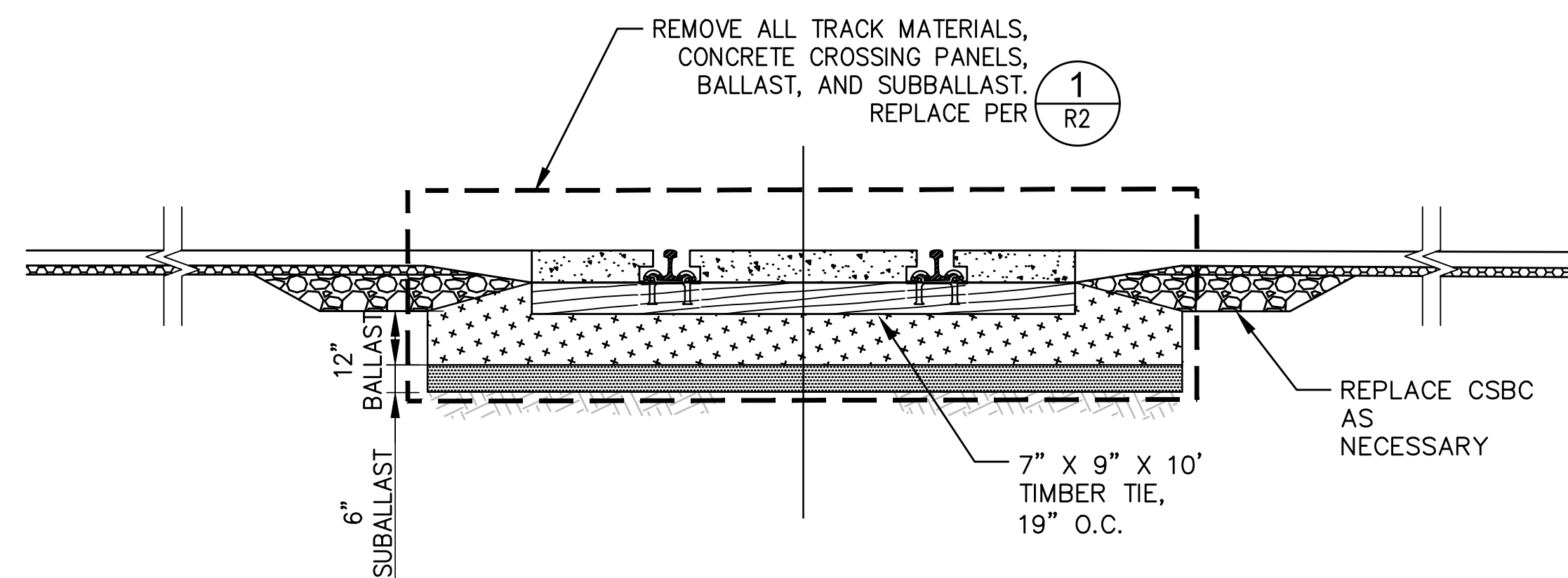
4 EXISTING SR240 PAVEMENT DETAIL
D1 SCALE: NTS



NOTE:

1. SLOPE IN EITHER DIRECTION 1.5% OF FLATTER RECOMMENDED FOR DESIGN/FORMWORK. (2% MAX)
2. ALL FILETS 1/2" UNLESS OTHERWISE NOTED.
3. FINISHED GRADE ADJACENT TO SIDEWALK OR CURB SHALL BE 1" BELOW TOP OF CONCRETE SURFACE.

5 EXISTING PEDESTIAN PATHWAY DETAIL
D1 SCALE: NTS



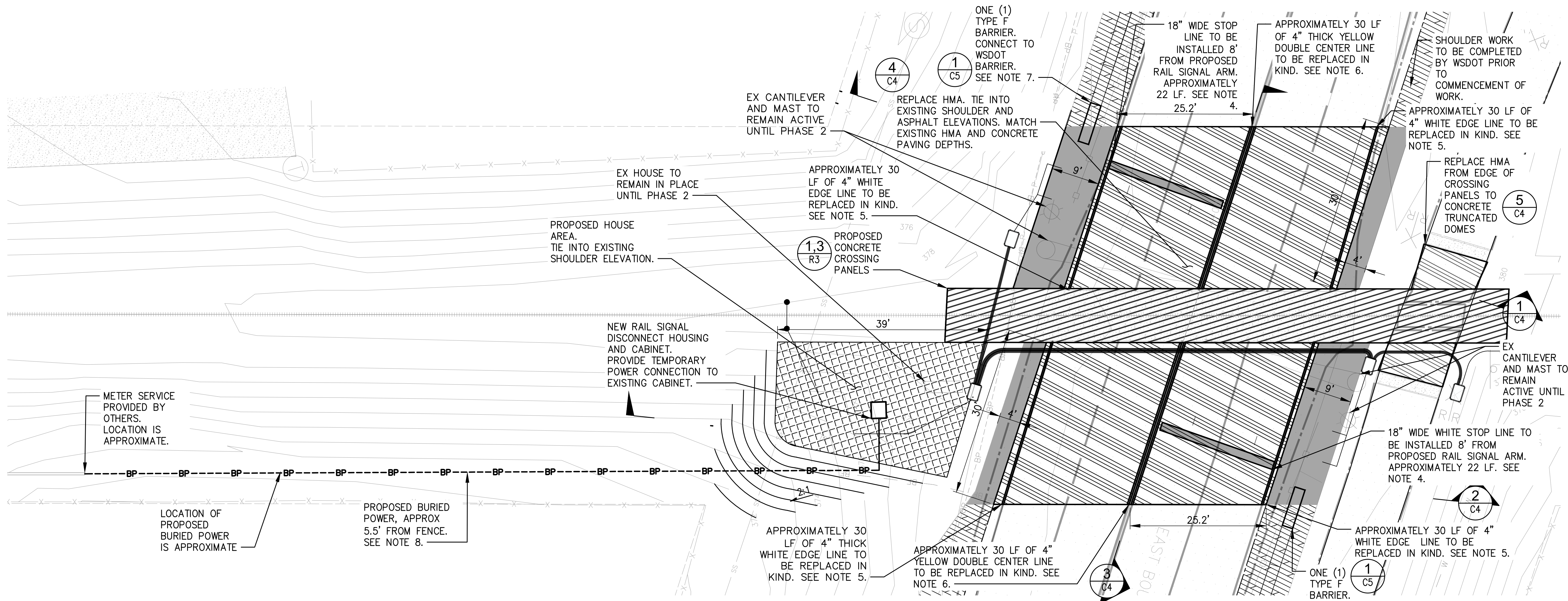
6 EXISTING CONCRETE GRADE CROSSING SECTION
D1 SCALE: NTS

EROSION AND SEDIMENT CONTROL NOTES

1. THE IMPLEMENTATION OF THESE EROSION AND SEDIMENT CONTROL (ESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
2. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
3. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES. AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM OR ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
4. THE CONTRACTOR SHALL SEED AND FERTILIZE ALL DISTURBED SURFACES EXCEPT FOR SURFACES BEING REPLACED WITH TRACK, PAVEMENT, AND CRUSHED SURFACING. SEE SPECIFICATIONS FOR SEEDING AND FERTILIZING REQUIREMENTS.
5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. THE CONTRACTOR SHALL PROVIDE A 24-HOUR CONTACT PERSON (FILL-IN INFORMATION BELOW):







NAME: _____
PHONE: _____
EMAIL: _____

	2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 (903) 979-3000	MARK: # REVISION: # BY: # APPR: # DATE: #	JAV CHECKED BY: TUH DATE: 07/17/2024 PROJ. ENGR: JAV DATE: 07/17/2024	APPROVED: JAV DATE: 07/17/2024
PORT OF BENTON WHITE BLUFF RAIL SR 240 RAIL CROSSING DEMO AND TESC DETAILS	PROJECT #: C2023-63 FEDERAL AID #: TBD PHASE: BID SET	TOWNSHIP: 10N RANGE: 28E SECTION: 23 DAT-HRZ: W63-SF VERT: NAD88 CITY OF RICHLAND PARCEL: N/A DRAWING SCALE: AS SHOWN	PORT OF BENTON 3250 PORT OF BENTON BLVD RICHLAND, WA, 99354	PROJECT # 9 OF 33 DATE: 7/18/2024



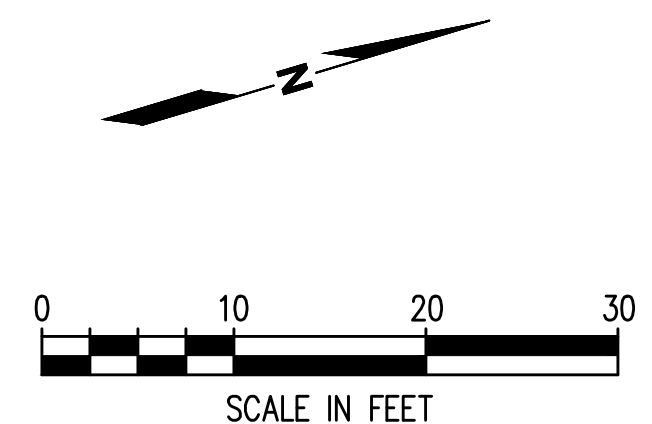
PHASE 1 GRADING AND SITE FEATURES
SCALE: 1" = 10'


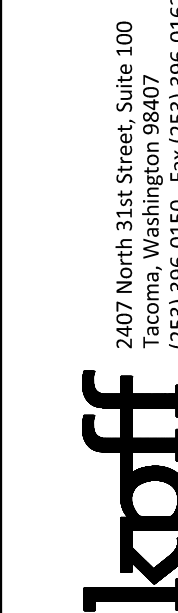

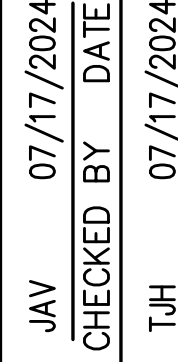
LEGEND

-  PROPOSED PAVEMENT REPLACEMENT
-  HOUSE AREA
-  PROPOSED CROSSING PANELS
-  PROPOSED SHOULDERS
-  WSDOT PROPOSED SHOULDERS
-  TYPE F BARRIERS

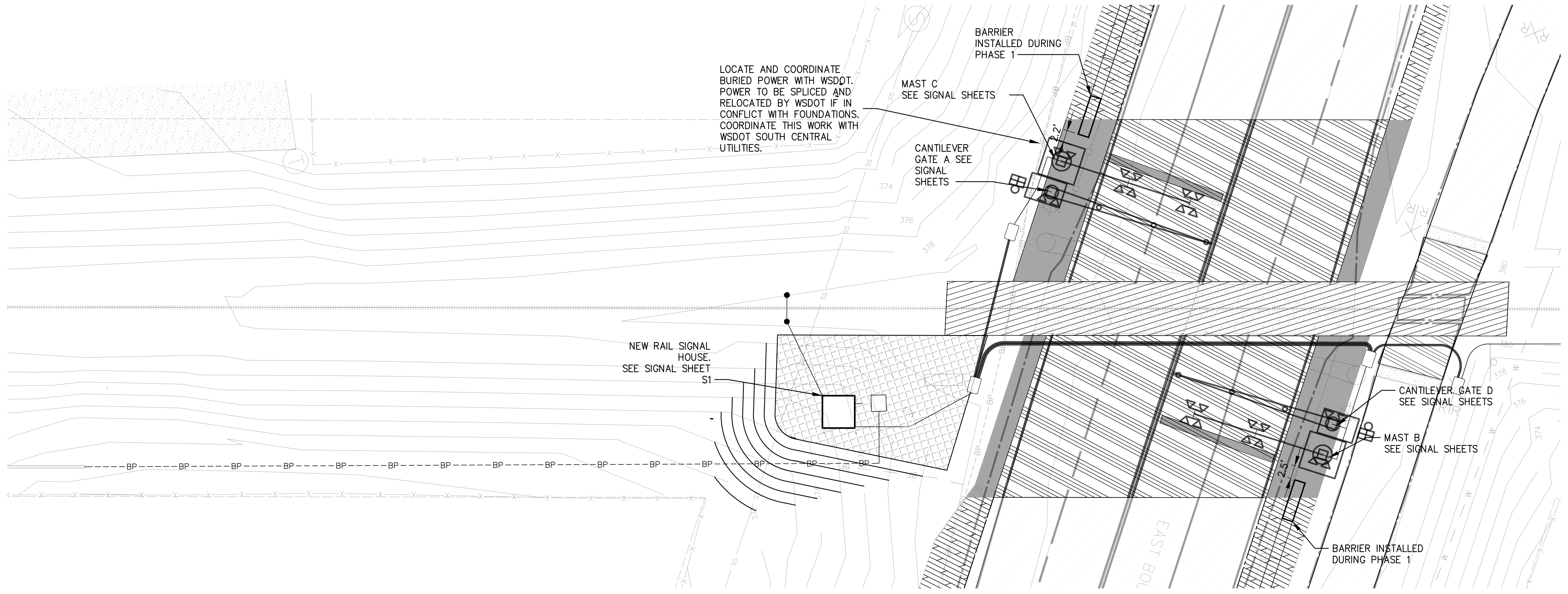
GENERAL NOTES

1. PROPOSED WORK ON THIS SHEET SHALL BE COMPLETED AS PART OF PHASE 1 DURING ALLOWABLE WORKING DAYS AND TRAFFIC CONTROL AS SHOWN ON G2.
2. SEE SHEET C2 FOR PHASE 2 WORK INCLUDING PROPOSED CANTILEVER, GATE, AND CABINET LOCATIONS.
3. CONSTRUCTION OF WSDOT SR 240 CORRIDOR IMPROVEMENTS PROJECT IS EXPECTED TO OVERLAP WITH PORT OF BENTON CONSTRUCTION. CONTRACTOR SHALL COMPLETE A PRE-CON MEETING WITH WSDOT AND THEIR CONTRACTOR PRIOR TO BEGINNING WORK. CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL, PAVING, TYPE F BARRIER, AND BURIED POWER SCHEDULE OF WORK AND TIE-INS WITH WSDOT CONTRACTOR SCOPE OF WORK AND SCHEDULE.
4. STOP BARS SHALL MEET THE REQUIREMENTS OF WSDOT STANDARD PLAN M-24.60-04 AND SHALL BE PAINTED WITH TWO COATS.
5. WHITE EDGE LINE (4") SHALL MEET REQUIREMENTS OF WSDOT STANDARD PLAN M24.60-04 AND SHALL BE PAINTED WITH TWO COATS.
6. DOUBLE YELLOW CENTER LANE LINE (4") SHALL MEET THE REQUIREMENTS OF WSDOT STANDARD PLAN M24.60-04 AND SHALL BE PAINTED WITH TWO COATS.
7. TYPE F BARRIER SHALL MEET THE REQUIREMENTS OF WSDOT STANDARD PLAN C-60.13-03.
8. ELECTRICAL CONDUIT SHALL MEET THE REQUIREMENTS OF WSDOT STANDARD PLANS J-10.




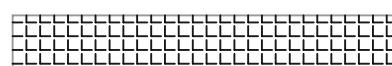



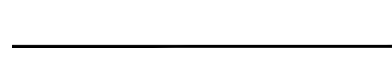
  	 7/18/2024	07/17/2024 CHECKED BY: DATE	07/17/2024 DATE
	2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 (203) 974-1300	MARK: # # # # # REVISION: # # # # # BY: # # # # # APPR: # # # # # DATE: # # # # #	APPROVED: DIRECTOR: ENG. DATE: josses Jul 17, 2024 PRINTED BY: josses Jul 17, 2024 PORT ADDRESS: 3250 PORT OF BENTON BLVD RICHLAND, WA, 99354
C1 10 OF 33 PROJECT #: C2023-63 FEDERAL AID #: TBD PHASE: BID SET	PORT OF BENTON WHITE BLUFF RAIL SR 240 RAIL CROSSING PHASE 1 GRADING AND SITE FEATURES	RANGE: 28E TOWNSHIP: 10N DAT-HRZ: W63-SF PARCEL: N/A	SECTION: 23 CITY OF RICHLAND DRAWING SCALE: AS SHOWN

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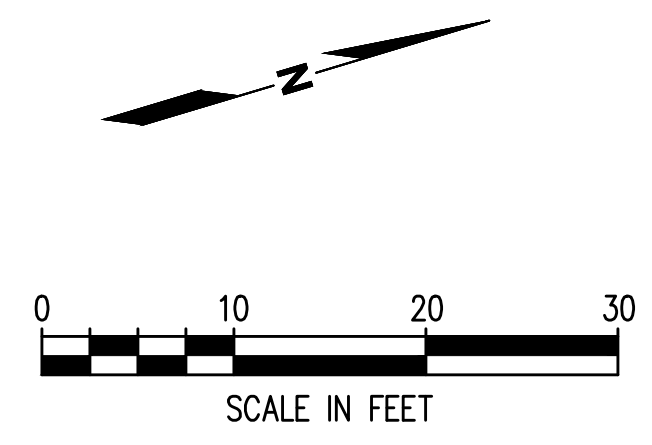
PHASE 2 GRADING AND SITE FEATURES
SCALE: 1" = 10'


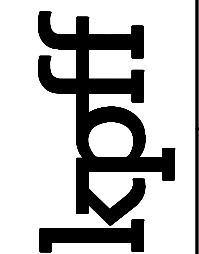

LEGEND

-  PROPOSED PAVEMENT REPLACEMENT
-  HOUSE AREA
-  PROPOSED CROSSING PANELS
-  PROPOSED SHOULDERS
-  WSDOT PROPOSED SHOULDERS
-  TYPE F BARRIERS

GENERAL NOTES

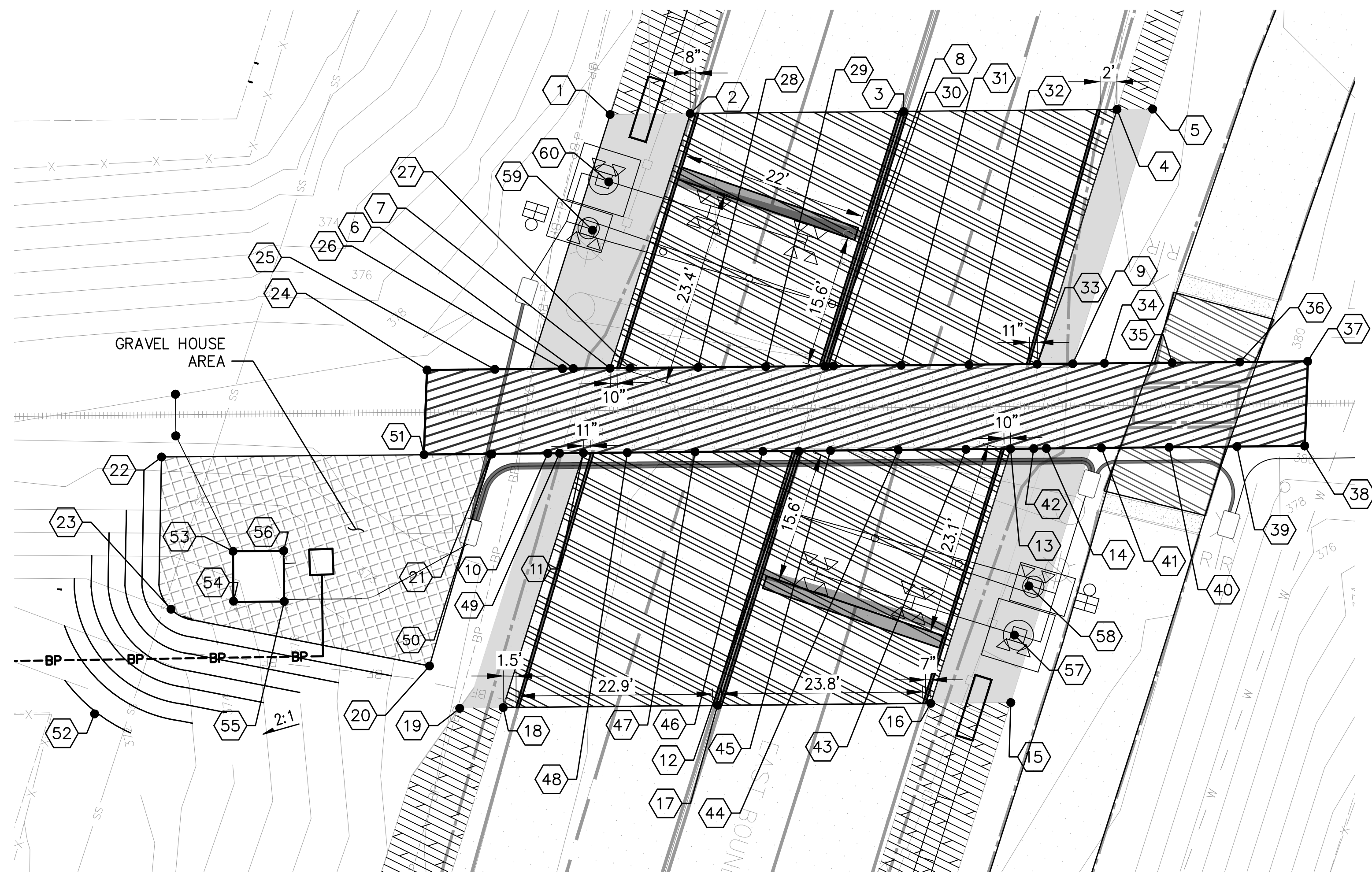
1. PROPOSED WORK ON THIS SHEET SHALL BE COMPLETED AS PART OF PHASE 2 DURING ALLOWABLE WORKING DAYS AND TRAFFIC CONTROL AS SHOWN ON G2.
2. CONTRACTOR SHALL PROVIDE 24/7 FLAGGING OR TRAFFIC CONTROL MEASURES TO CONTROL ROADWAY TRAFFIC WHEN NEITHER THE EXISTING OR NEW SIGNALS ARE ACTIVE.
3. SEE SHEET C1 FOR PHASE 1 WORK.
4. CONSTRUCTION OF WSDOT SR 240 CORRIDOR IMPROVEMENTS PROJECT IS EXPECTED TO OVERLAP WITH PORT OF BENTON CONSTRUCTION. CONTRACTOR SHALL COMPLETE A PRE-CON MEETING WITH WSDOT AND THEIR CONTRACTOR PRIOR TO BEGINNING WORK. CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL, CANTILEVER, GATE AND BURIED POWER SCHEDULE OF WORK AND TIE-INS WITH WSDOT CONTRACTOR SCOPE OF WORK AND SCHEDULE.



 11 OF 33	PORT OF BENTON WHITE BLUFF RAIL SR 240 RAIL CROSSING PHASE 2 GRADING AND SITE FEATURES				APPROVED: #	JAN 07/17/2024 CHECKED BY: DATE
	PROJECT #: C2023-63 FEDERAL AID #: TBD PHASE: BID SET	TOWNSHIP: 10N RANGE: 28E SECTION: 23	DAT-HRZ: W83-SF VERT: NAD88 CITY OF RICHLAND	PARCEL: N/A DRAWING SCALE: AS SHOWN	DIRECTOR: JAV ENG. DATE: 07/17/2024 PROJ. ENGR: TJH DATE: 07/17/2024	PRINTED BY: jvososs JUL 17, 2024
 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 (800) 974-3000		 PORT OF BENTON 3250 PORT OF BENTON BLVD, RICHLAND, WA 99354 (509) 974-3000		MARK: # REVISION: # BY: # APPR: # DATE: #	7/18/2024	WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF BENTON FILE: X:\TAC\2023\10092300182_PoB_White Bluff Rail SR240 Rail Crossing\Part 3 - KPFF Design\3.13 Drawings\C3 - Horizontal Control



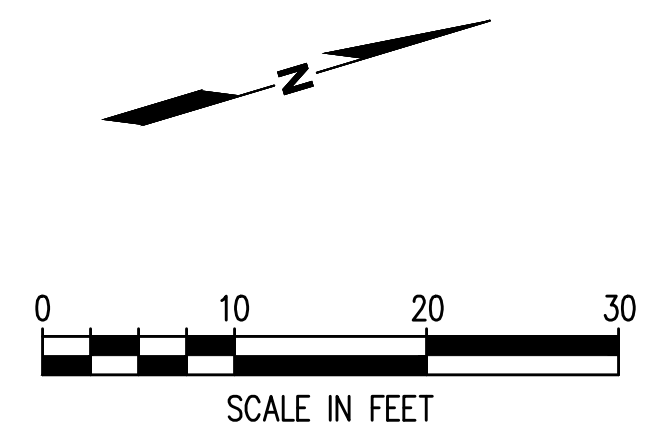
GRADING AND SITE FEATURES

SCALE: 1" = 10'

HORIZONTAL CONTROL				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	359180.90	1946318.34	379.92	EOS
2	359189.96	1946321.11	379.93	EOTW
3	359214.09	1946328.60	380.27	COR
4	359238.18	1946335.98	379.56	EOTW
5	359242.20	1946337.22	379.65	EOS
6	359167.64	1946345.63	379.87	EOS
7	359171.78	1946346.92	379.93	EOTW
8	359196.05	1946354.40	380.21	COR
9	359224.05	1946363.04	380.36	EOS
10	359161.71	1946354.28	379.81	EOS
11	359165.73	1946355.52	379.88	EOTW
12	359190.06	1946363.05	380.17	COR
13	359213.99	1946370.39	379.56	EOTW
14	359218.05	1946371.64	380.46	EOS
15	359204.89	1946398.99	379.56	EOS
16	359195.85	1946396.20	378.50	EOTW
17	359171.77	1946388.78	380.36	COR
18	359147.55	1946381.31	378.50	EOTW
19	359142.58	1946379.81	379.12	EOS
20	359140.74	1946373.98	378.54	EOG

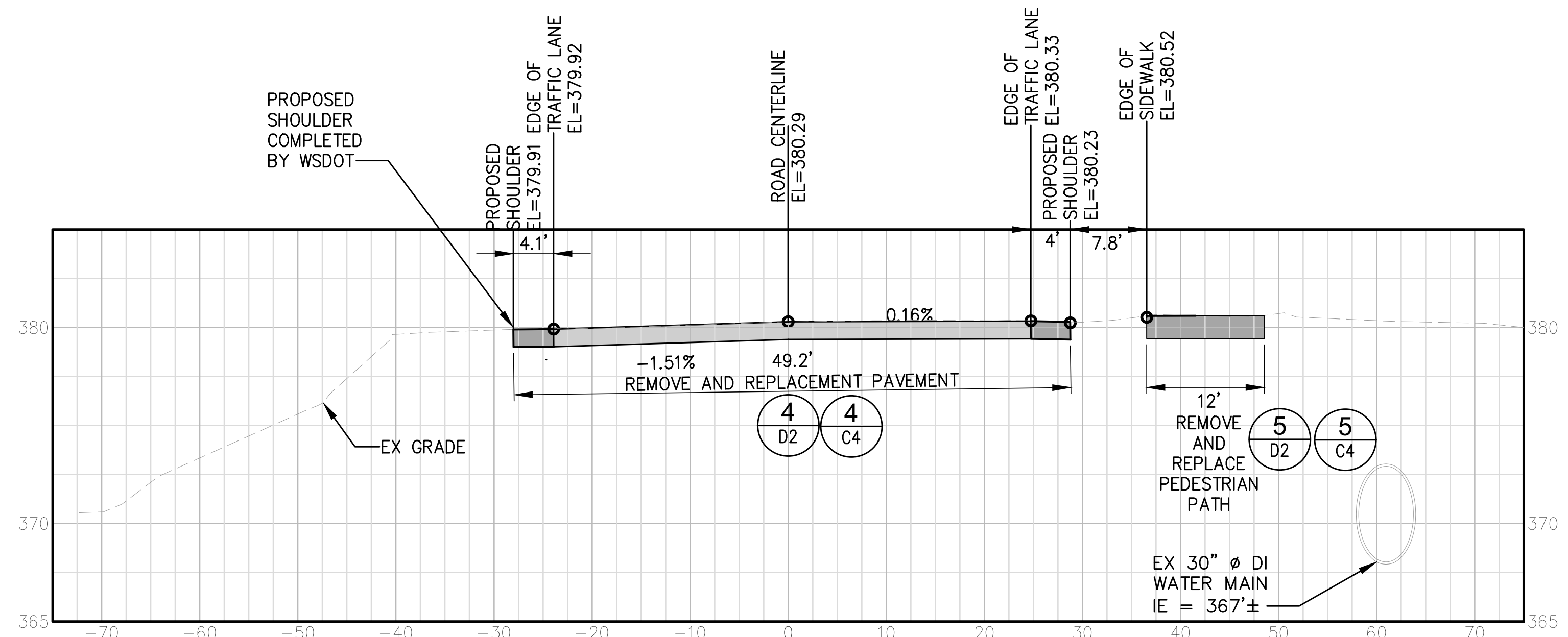
HORIZONTAL CONTROL				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
21	359155.25	1946352.33	379.72	EOG
22	359118.08	1946340.81	378.47	EOG
23	359113.68	1946358.30	374.02	EOG
24	359151.10	1946340.55	379.24	CPC
25	359158.76	1946342.90	379.41	CPC
26	359166.41	1946345.27	379.85	CPC
27	359174.06	1946347.62	379.97	CPC
28	359181.71	1946349.98	380.05	CPC
29	359189.37	1946352.34	380.13	CPC
30	359197.02	1946354.70	380.22	CPC
31	359204.67	1946357.06	380.27	CPC
32	359212.32	1946359.42	380.32	CPC
33	359220.04	1946361.81	380.37	CPC/EOTW
34	359227.63	1946364.14	380.41	CPC
35	359235.28	1946366.50	380.63	CPC
36	359242.93	1946368.86	380.57	CPC
37	359250.60	1946371.22	380.56	CPC
38	359247.21	1946380.64	380.10	CPC
39	359239.56	1946378.28	380.75	CPC
40	359231.91	1946375.92	380.66	CPC

HORIZONTAL CONTROL				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
41	359224.26	1946373.56	380.54	CPC
42	359216.60	1946371.20	380.45	CPC
43	359208.95	1946368.84	380.38	CPC
44	359201.30	1946366.49	380.29	CPC
45	359193.65	1946364.12	380.21	CPC
46	359185.99	1946361.77	380.12	CPC
47	359178.34	1946359.41	380.03	CPC
48	359170.69	1946357.05	379.95	CPC
49	359163.04	1946354.69	379.82	CPC
50	359155.38	1946352.33	379.72	CPC
51	359147.73	1946349.97	379.62	CPC
52	359101.48	1946367.12	371.78	TOE
53	359122.74	1946353.99	375.49	BUNGALOW
54	359120.97	1946359.73	374.70	BUNGALOW
55	359126.70	1946361.49	376.01	BUNGALOW
56	359128.47	1946355.76	376.33	BUNGALOW
57	359207.75	1946391.38	380.51	MAST D
58	359211.18	1946386.46	380.52	GATE B
59	359174.82	1946330.69	379.85	GATE A
60	359178.25	1946325.77	379.86	MAST C

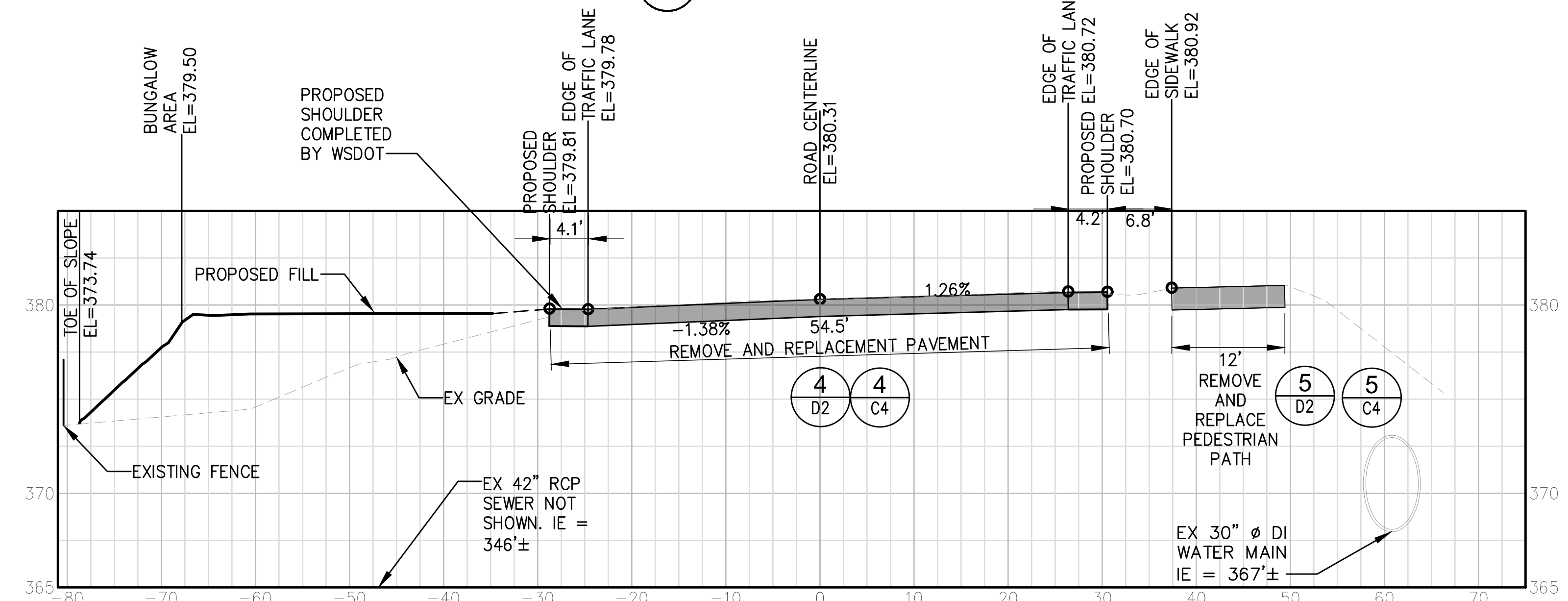


 3250 PORT OF BENTON BLVD, RICHLAND, WA 99354 (509) 375-3000	 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162	MARK: # REVISION: # BY: # APPR: # DATE: #
		APPROVED: # # DIRECTOR: # ENG. DATE: # DATE: # PROJ. ENGR: # DATE: #
PROJECT # C2023-63 FEDERAL AID # TBD PHASE: BID SET	TOWNSHIP: 10N RANGE: 28E SECTION: 23 DAT-HRZ: W63-SF VERT: NAD83 CITY OF RICHLAND PARCEL: N/A DRAWING SCALE: AS SHOWN	8/5/2024 8/5/2024 Aug 05, 2024 3250 PORT OF BENTON BLVD RICHLAND, WA, 99354

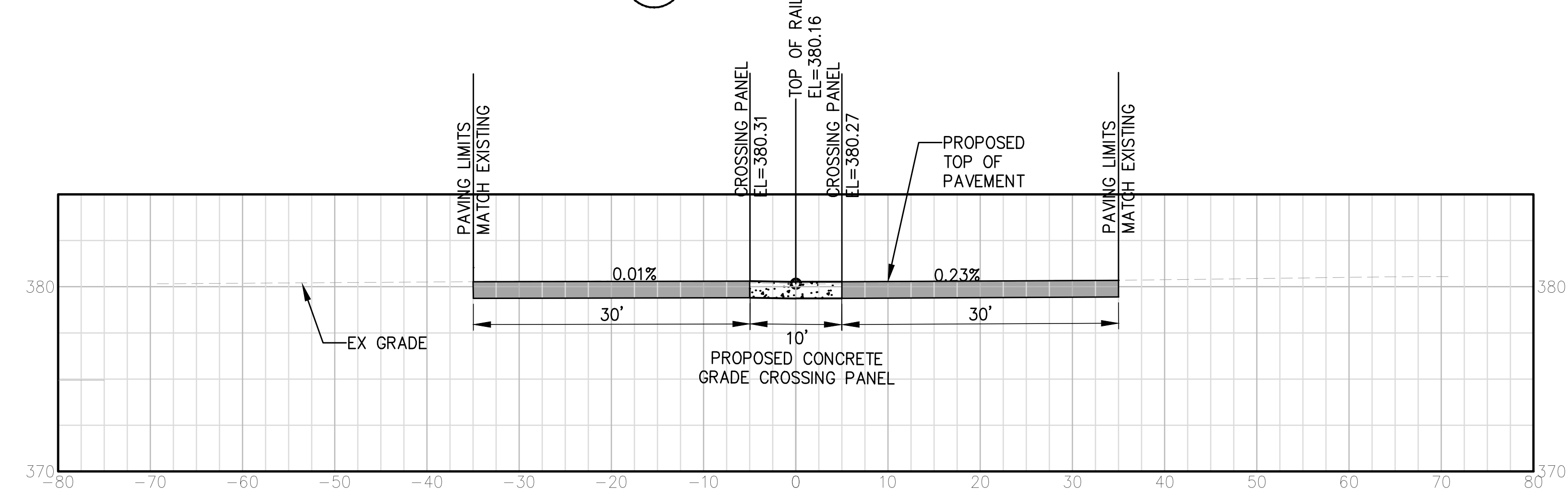
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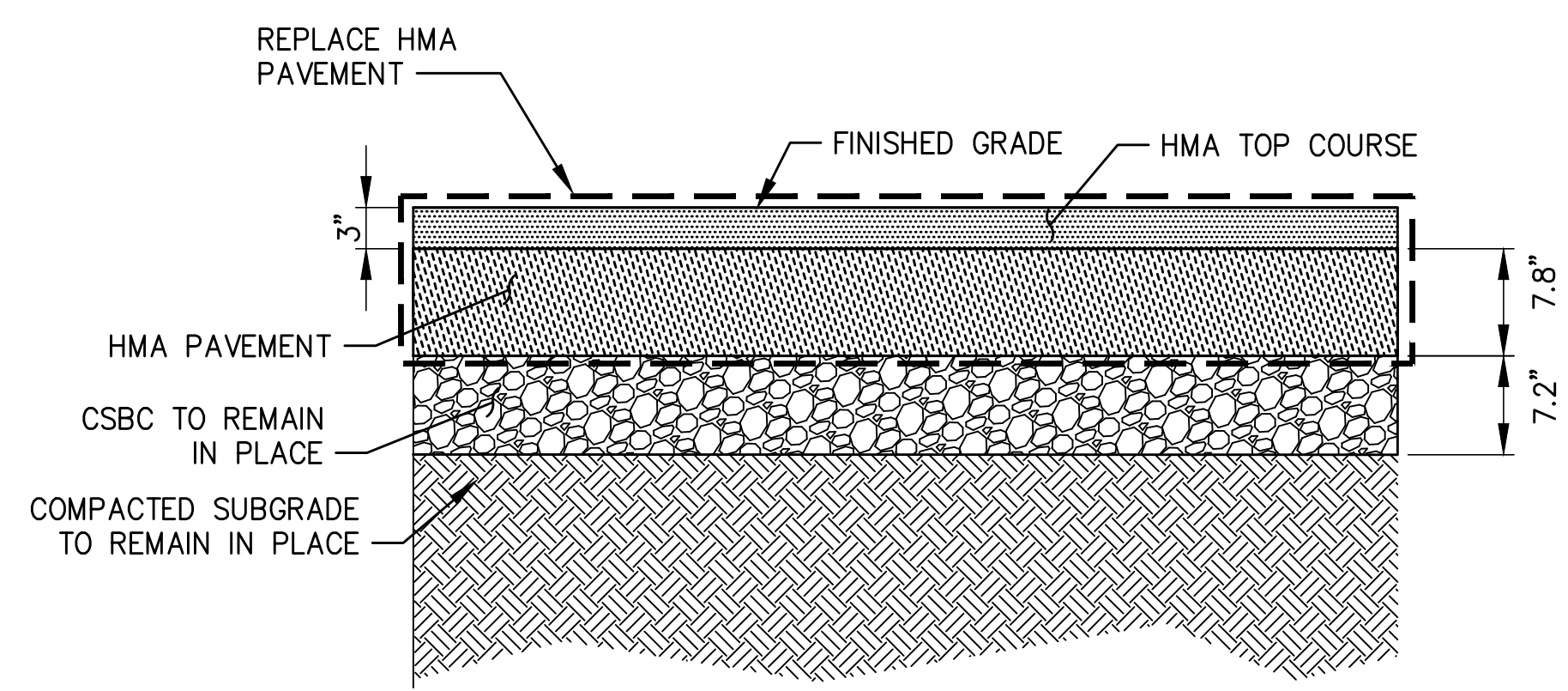
1 ROAD SECTION 3+97
C1 SCALE: HORZ: 1" = 10' VERT: 1" = 5'



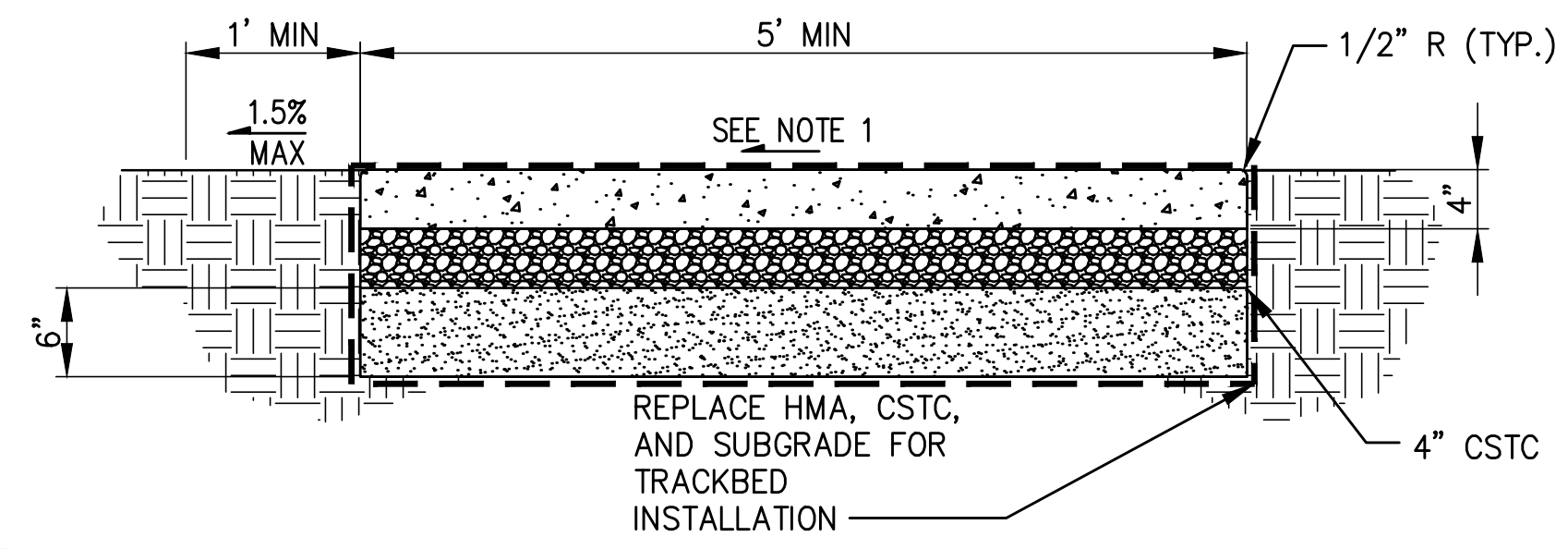
2 ROAD SECTION 3+47
C1 SCALE: HORZ: 1" = 10' VERT: 1" = 5'



3 ROAD SECTION 2+89
C1 SCALE: HORZ: 1" = 10' VERT: 1" = 5'

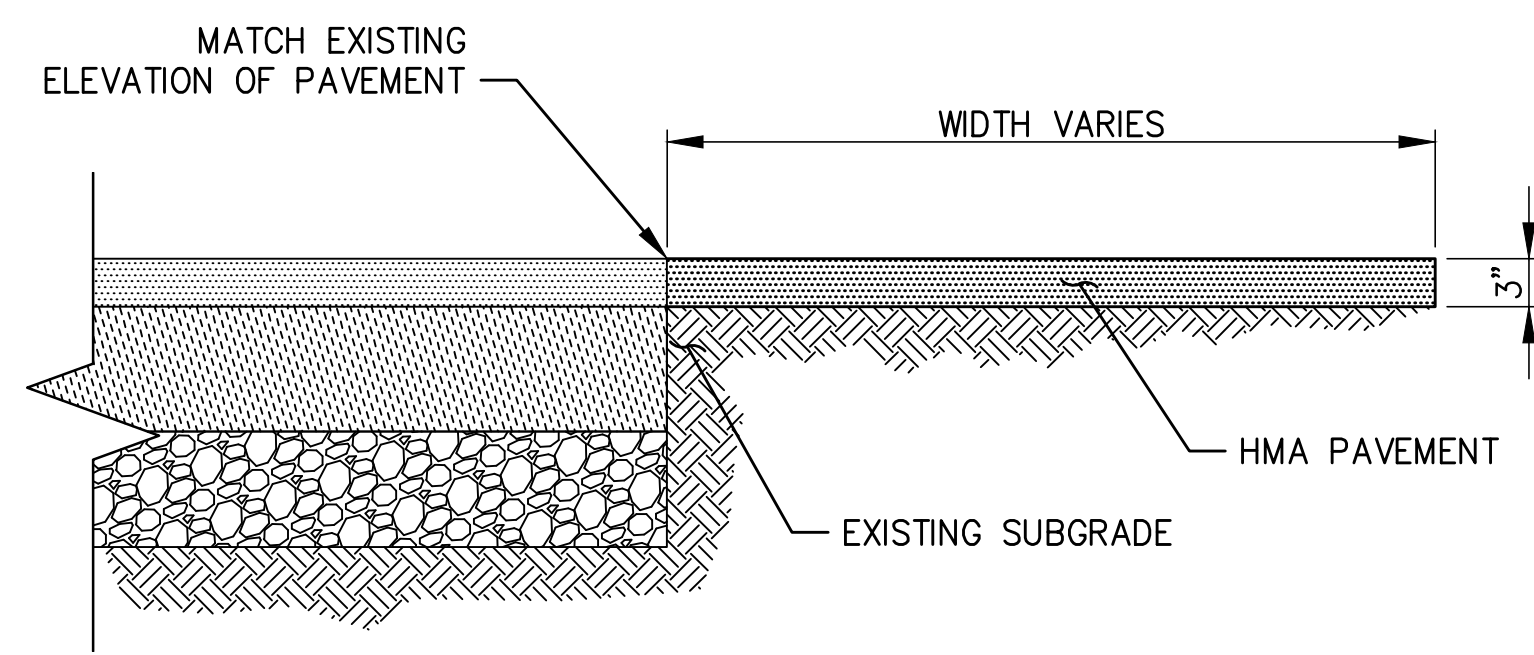


4 PROPOSED SR240 PAVEMENT DETAIL
C1 SCALE: NTS



5 PROPOSED PEDESTIAN PATHWAY DETAIL
C1 SCALE: NTS

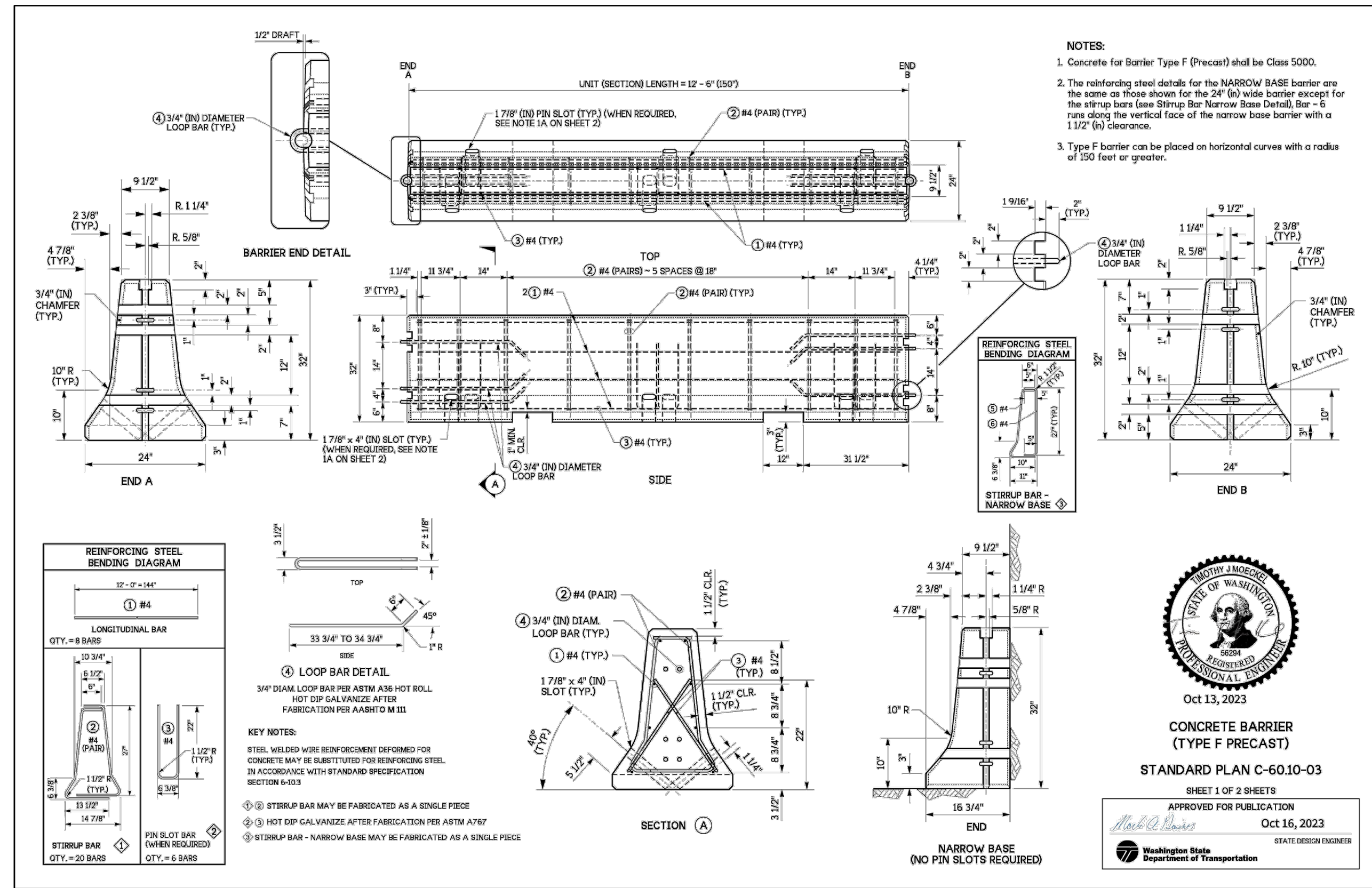
NOTE:
1. SLOPE IN EITHER DIRECTION 1.5% OF FLATTER RECOMMENDED FOR DESIGN/FORMWORK. (2% MAX)
2. ALL FILETS 1/2" UNLESS OTHERWISE NOTED.
3. FINISHED GRADE ADJACENT TO SIDEWALK OR CURB SHALL BE 1" BELOW TOP OF CONCRETE SURFACE.



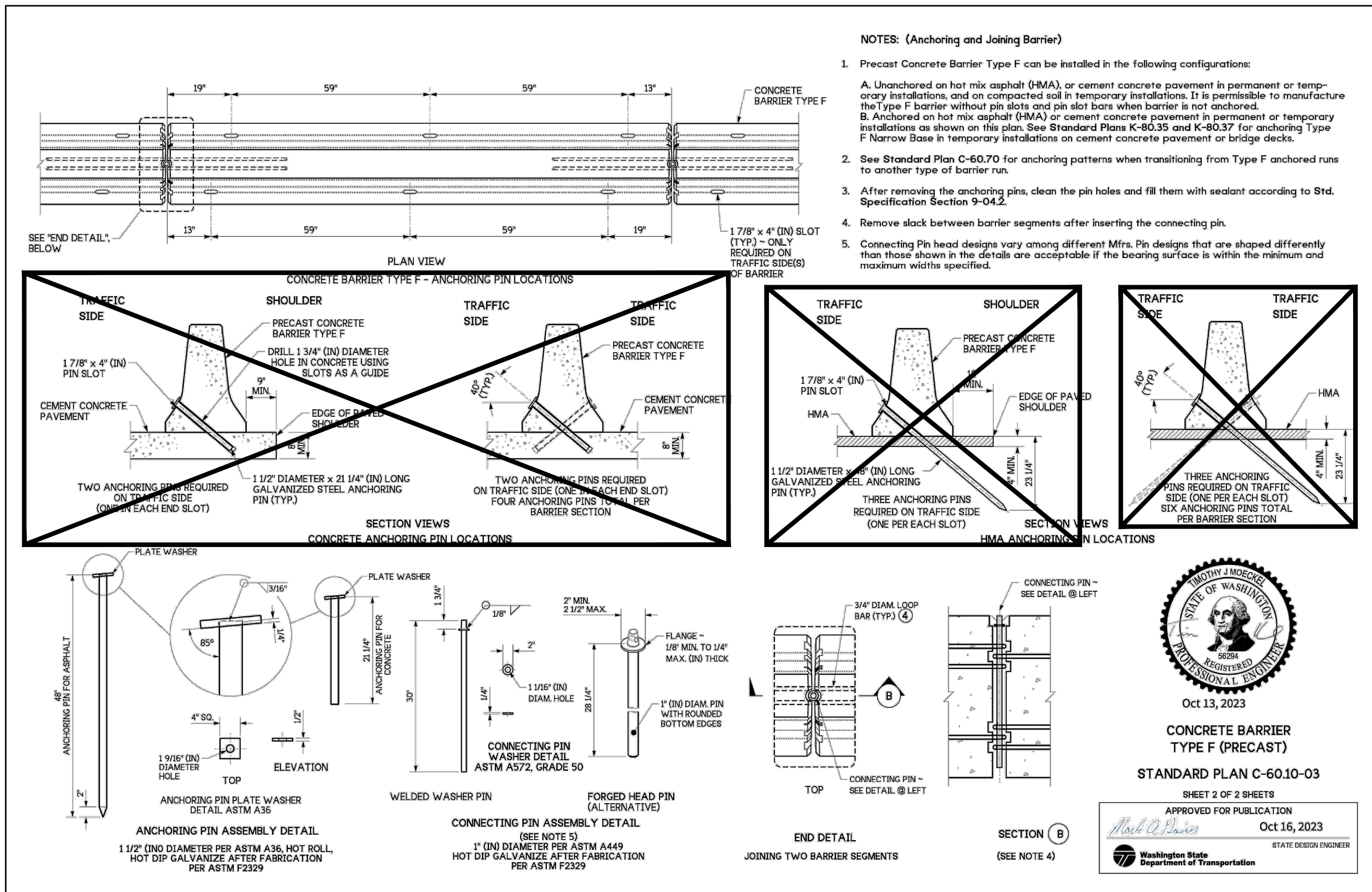
6 PROPOSED SHOULDER DETAIL
C4 SCALE: NTS

			2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 (800) 379-3000	
	MARK:	REVISION:	BY:	DATE:
	#	#	#	#
		7/18/2024		
APPROVED:	JAV	07/17/2024	CHECKED BY:	DATE
#	TJH	07/17/2024	PROJ. ENGR	DATE
DIRECTOR	ENG.	DATE	PRINTED BY:	SECTION:
Janssen	Jul 17, 2024		3250 PORT OF BENTON BLVD	23
PORT ADDRESS:	RICHLAND, WA, 99354	DRAWING SCALE:	AS SHOWN	
PORT OF BENTON WHITE BLUFF RAIL SR 240 RAIL CROSSING PHASE 1 GRADING AND SITE FEATURES				
C4 13 OF 33	PROJECT #:	TOWNSHIP:	RANGE:	SECTION:
	FEDERAL AID #:	DAT-HRZ:	W63-SF	VERT:
	PHASE:	PARCEL:	N/A	DRAWING SCALE: AS SHOWN

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1
C1 **TYPE F PRECAST CONCRETE BARRIER**
SCALE: NTS



PORT OF BENTON
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162
(203) 774-3000

kpff
KIMLEY-HORN AND ASSOCIATES, INC.
1000 WEST 10TH AVENUE, SUITE 200
DENVER, CO 80202
7/18/2024

APPROVED:
#

PROJECT #: C2023-63
TOWNSHIP: 10N
RANGE: 28E
SECTION: 23

FEDERAL AID #: TBD
DAT-HRZ: W83-SF
VERT: NAVD88 CITY OF RICHLAND

PHASE: BID SET
PARCEL: N/A
DRAWING SCALE: AS SHOWN

PORT OF BENTON WHITE BLUFF RAIL SR 240 RAIL CROSSING
BARRIER DETAIL

APPROVED: #

CHECKED BY: JAV
DATE: 07/17/2024

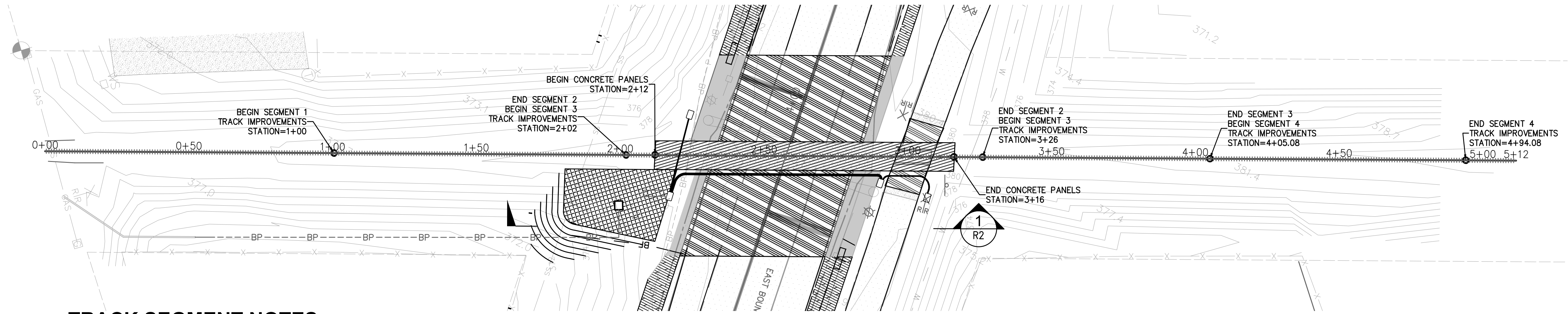
PROJ. ENGR: TJH
DATE: 07/17/2024

PRINTED BY: jmoses
DATE: JUL 17, 2024

PORT ADDRESS: 3250 PORT OF BENTON BLVD
RICHLAND, WA, 99354

MARK: # # # # #
REVISION: # # # # #
BY: # # # # #
APPR: # # # # #
DATE: # # # # #

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TRACK SEGMENT NOTES:

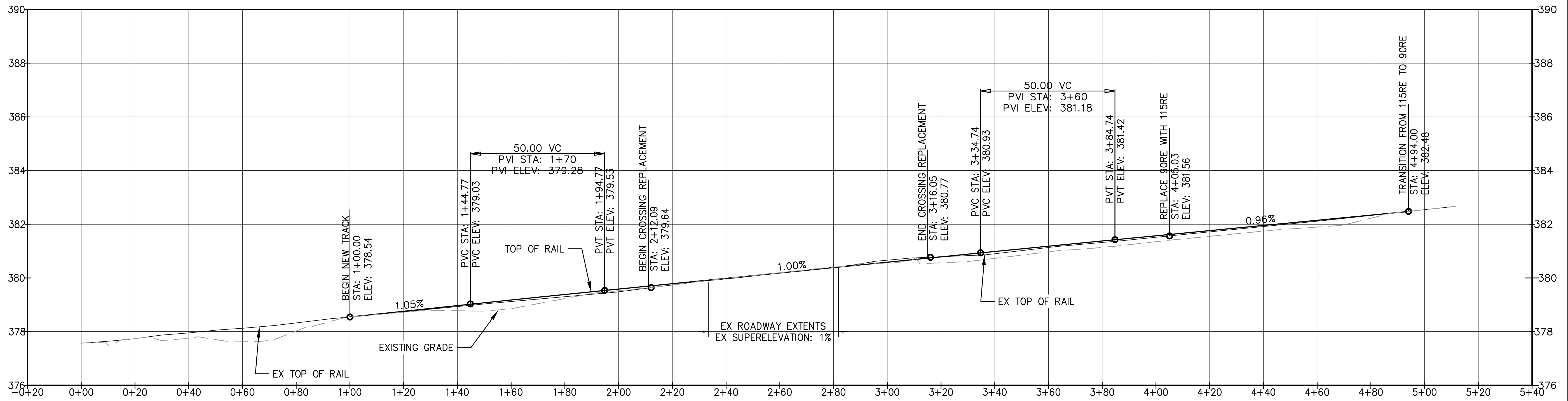
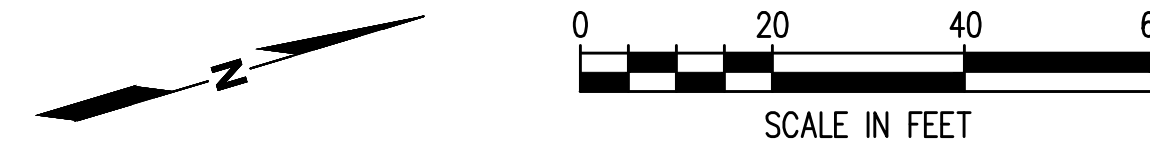
- SEGMENT 1:**
REPLACE ALL TIES AND RAIL WITH NEW TIMBER TIES, TIE PLATES, CLIPS, AND 136RE RAIL. PLACE NEW BALLAST AS NECESSARY TO RAISE AND TAMP TRACK TO THE PROPOSED VERTICAL ALIGNMENT.

NOTE: SEGMENT BEGIN LOCATION IS APPROXIMATE. CONTRACTOR SHALL TIE INTO 136RE JOINTS INSTALLED AS PART OF THE SAINT STREET CROSSING PROJECT.
- SEGMENT 2:**
REMOVE FULL TRACKBED SECTION. CONSTRUCT NEW TRACKBED SECTION AND CROSSING PANELS PER DETAIL 2 ON SHEET R2.
- SEGMENT 3:**
REPLACE ALL TIES AND RAIL WITH NEW TIMBER TIES, TIE PLATES, CLIPS, AND 136RE RAIL. PLACE BALLAST AS NECESSARY TO RAISE AND TAMP TRACK TO THE PROPOSED VERTICAL ALIGNMENT.

NOTE: SEGMENT END LOCATION IS APPROXIMATE. CONTRACTOR SHALL EXTEND 136RE RAIL BEYOND THE CROSSING PANELS FOR EACH RAIL. SEGMENT 3 SHALL END WHERE STICKS OF 136RE END.
- SEGMENT 4:**
REPLACE EVERY 3RD TIE WITH A NEW TIMBER TIE, TIE PLATE, CLIPS. INSTALL NEW 115RE RAIL. PLACE BALLAST AS NECESSARY TO RAISE AND TAMP TRACK TO THE PROPOSED VERTICAL ALIGNMENT.

NOTE: SEGMENT SHALL START WHERE SEGMENT 3 ENDS. SEGMENT 4 SHALL EXTEND ONE STICK OF 115RE RAIL FOR BOTH RAILS.

PLAN
SCALE: 1" = 20'



1 STATION 0+00 TO 5+12 PROFILE
HORIZ: 1" = 20' VERT: 1" = 2'



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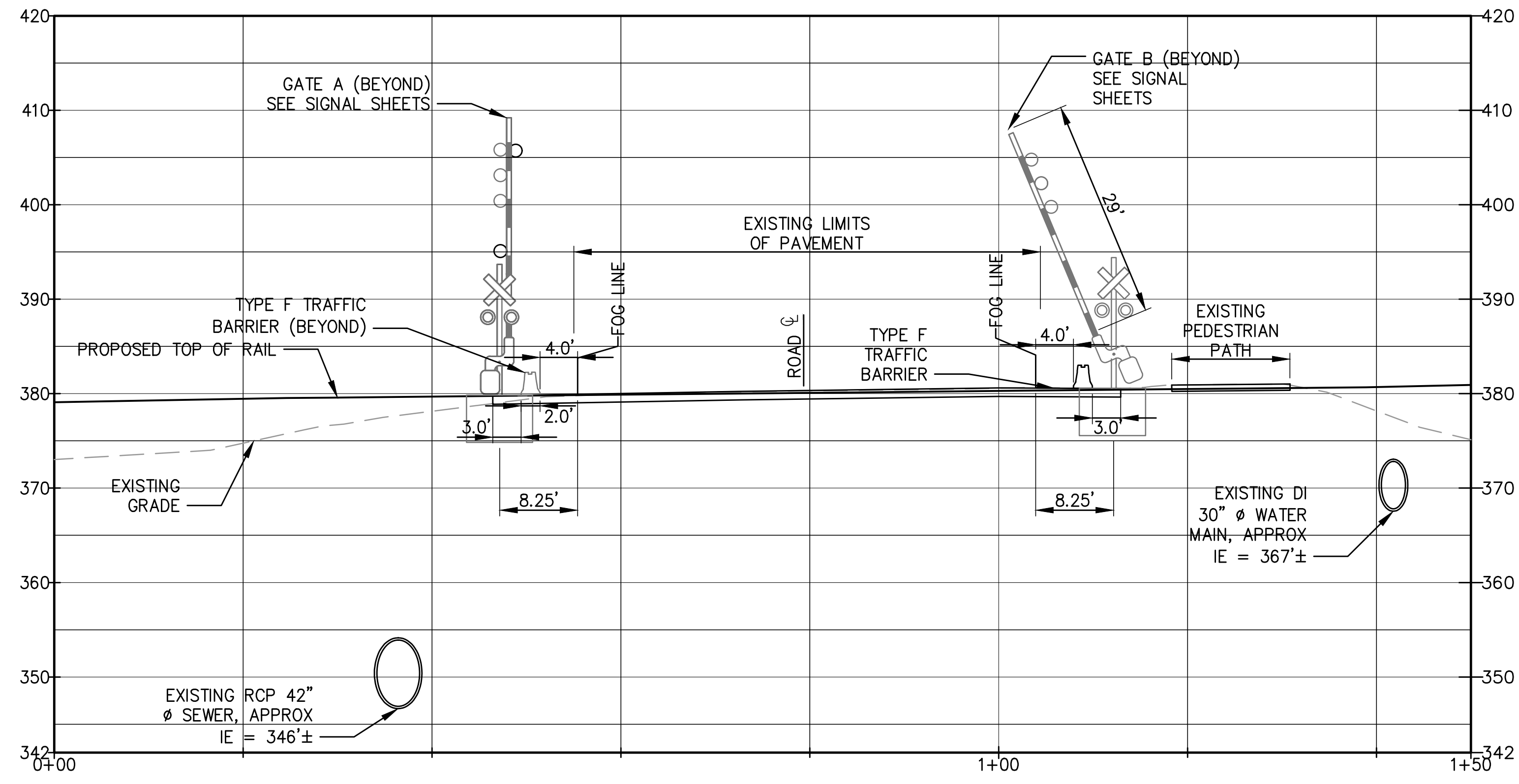
APPROVED:	JAV	07/17/2024
#	CHECKED BY	DATE
	TJH	07/17/2024
	PROJ. ENGR	DATE
	PRINTED BY: jmoses	Jul 17, 2024
	DIRECTOR	ENG. DATE
	PORT ADDRESS:	3250 PORT OF BENTON BLVD
	DRAWING SCALE:	AS SHOWN
	RICHLAND, WA,	99354

PORT OF BENTON
WHITE BLUFF RAIL SR 240 RAIL CROSSING
RAIL PLAN AND PROFILES

PROJECT #:	C2023-63
FEDERAL AID #:	
PHASE:	BID SET
TOWNSHIP:	10N
RANGE:	28E
SECTION:	23
DAT-HRZ:	W63-SF
VERT:	NAVD88 CITY OF RICHLAND
PARCEL:	N/A
DRAWING SCALE:	AS SHOWN

R1
15 OF 33

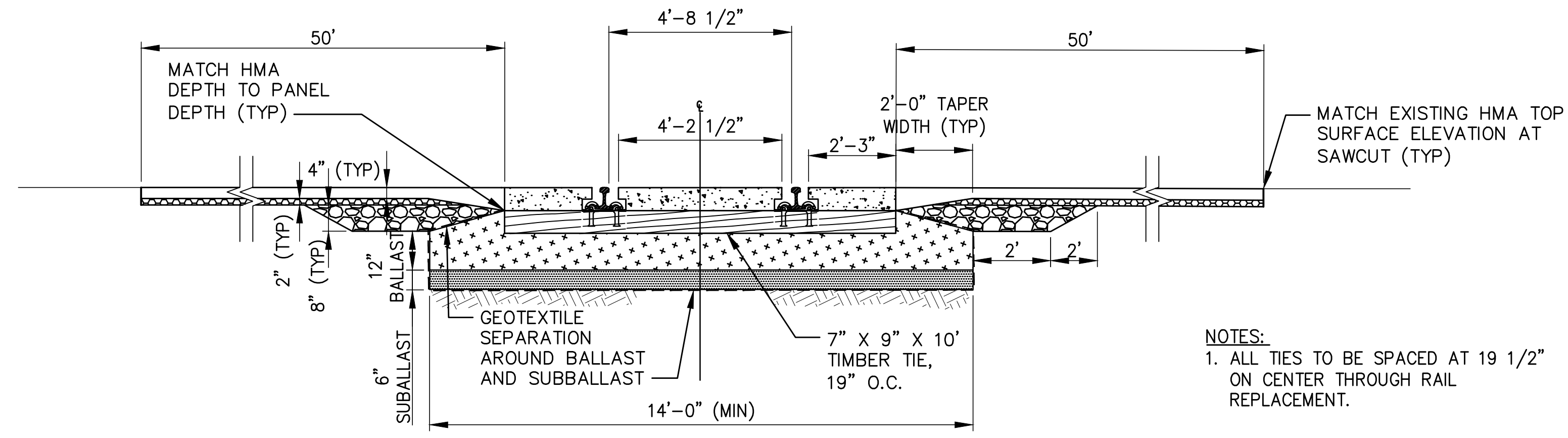
MARK:	REVISION:	BY:	APPR:	DATE:
#	#	#	#	#



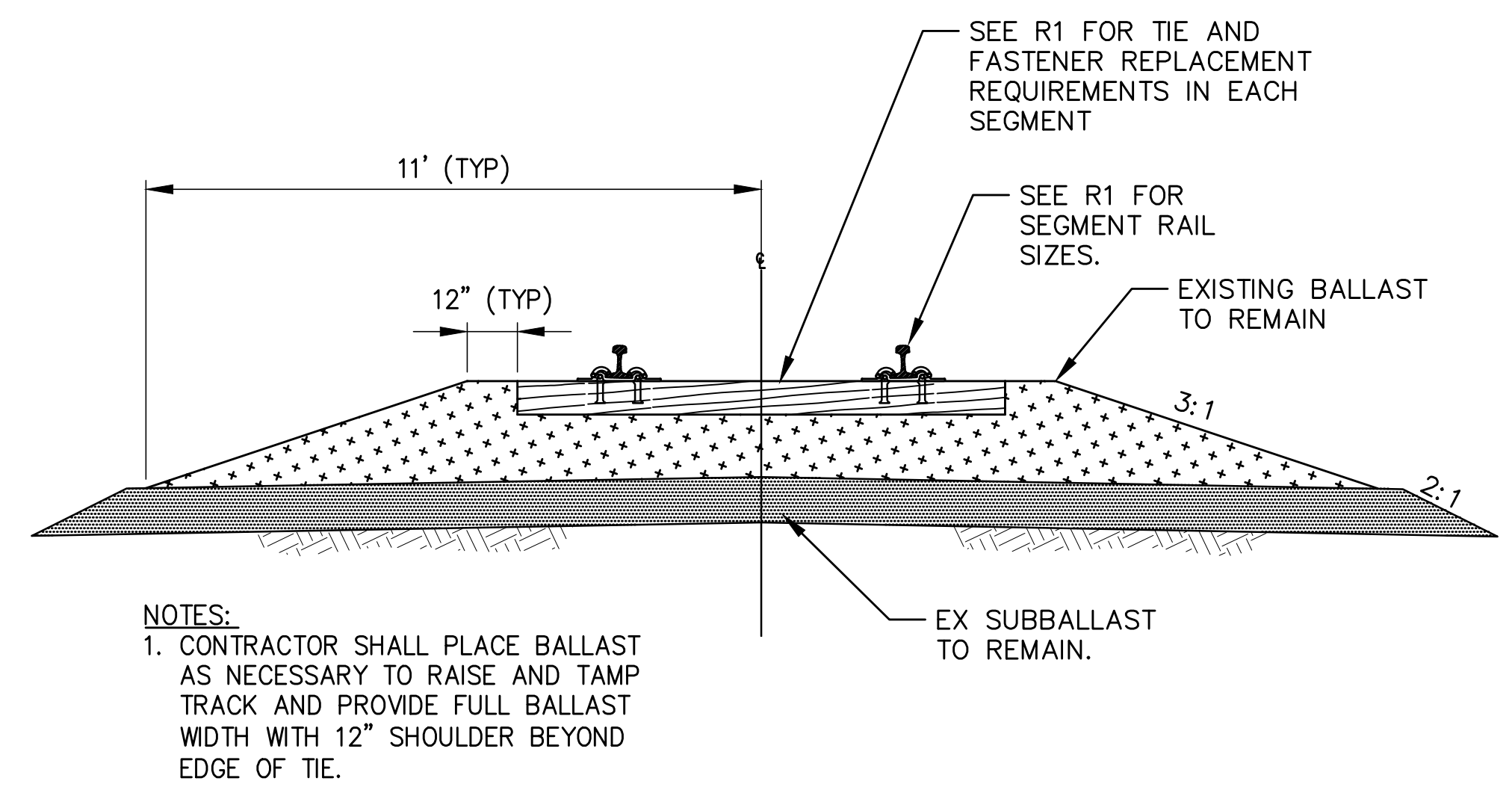
1
R1 **SR 240 SECTION**
SCALE: 1" = 10'

R2 16 OF 33	PORT OF BENTON WHITE BLUFF RAIL SR 240 RAIL CROSSING RAIL SIGNAL PROFILE		APPROVED: # #	JAN 07/17/2024 CHECKED BY: DATE TJH 07/17/2024 PROJ. ENGR DATE	 	 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 (509) 374-3000
	PROJECT #: C2023-63 FEDERAL AID #: TBD PHASE: BID SET	TOWNSHIP: 10N RANGE: 28E SECTION: 23 DAT-HRZ: W83-SF PARCEL: N/A	DIRECTOR ENG. DATE: Janssen Jul 17, 2024 PRINTED BY: Janssen Jul 17, 2024 PORT ADDRESS: 3250 PORT OF BENTON BLVD RICHLAND WA, 99354	MARK: # REVISION: # BY: # APPR: # DATE: #	DATE: # DATE: #	DATE: # DATE: #

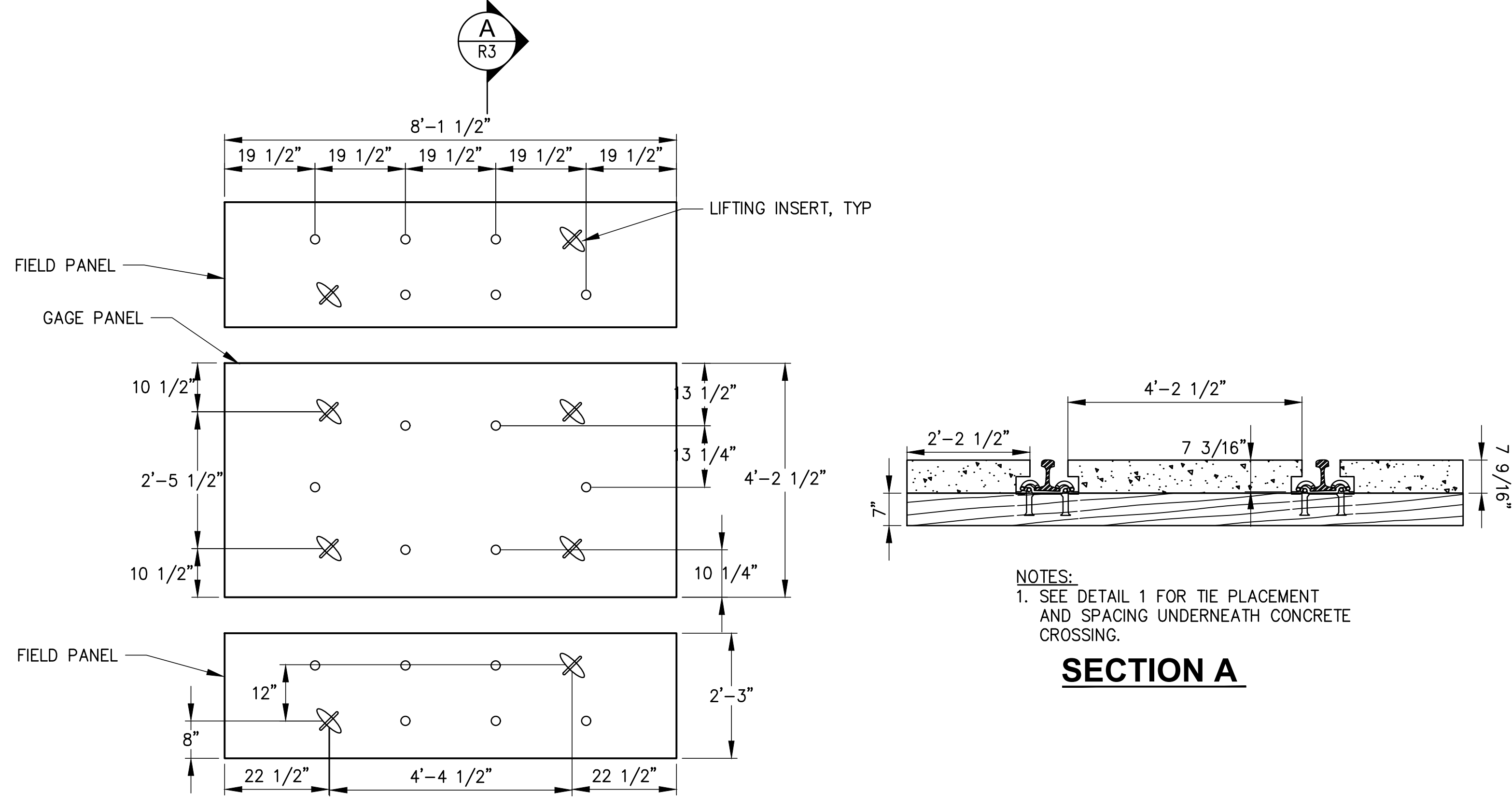
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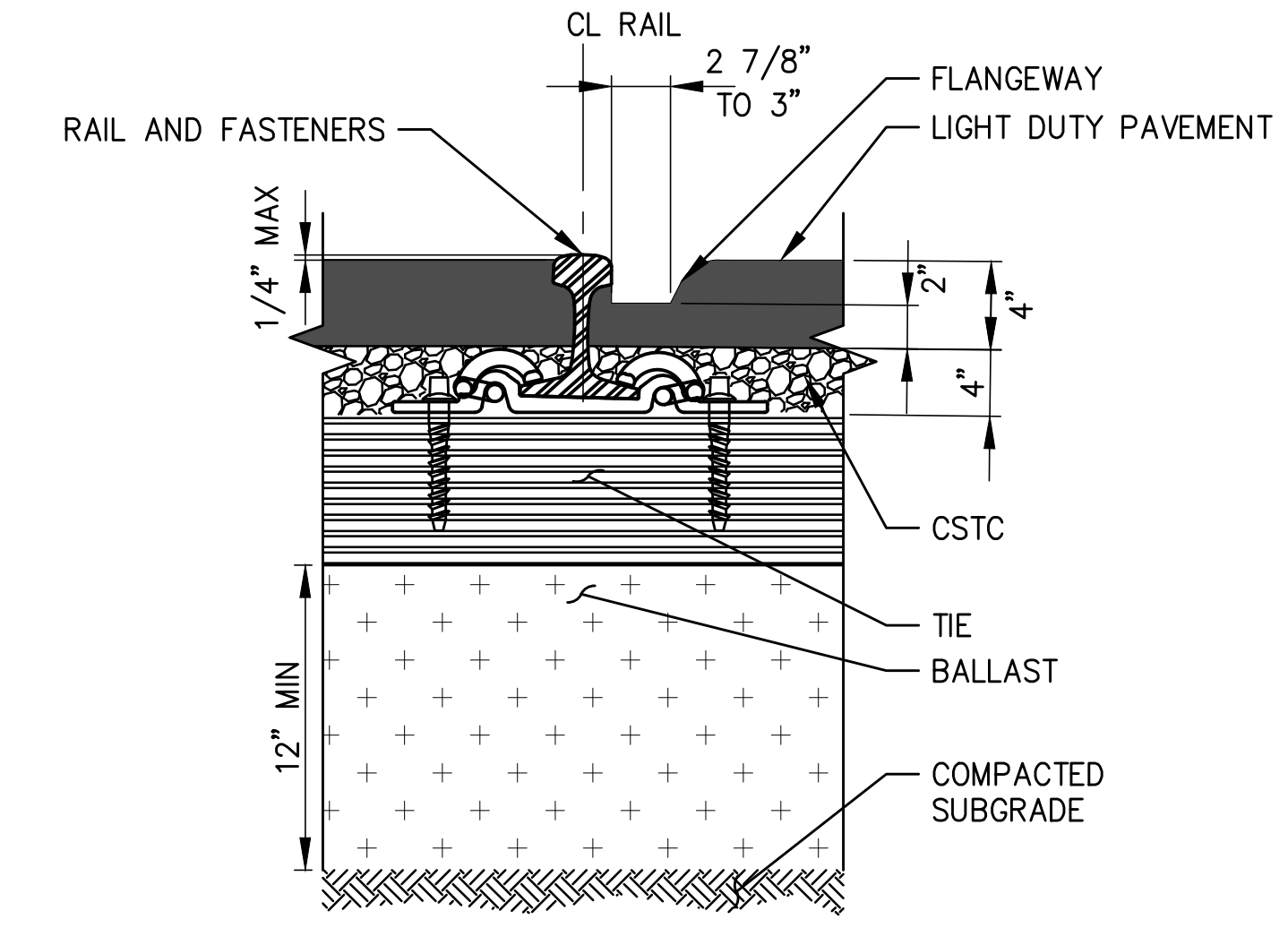
1 CONCRETE GRADE CROSSING SECTION - SEGMENT 2
SCALE: NTS



2 TRACKBED SECTION - SEGMENT 1,3,4
SCALE: NTS



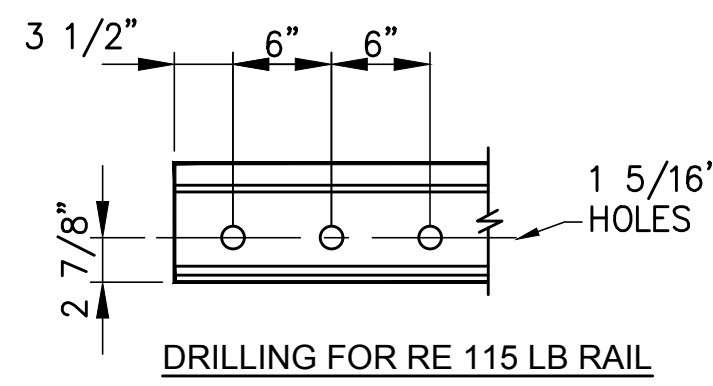
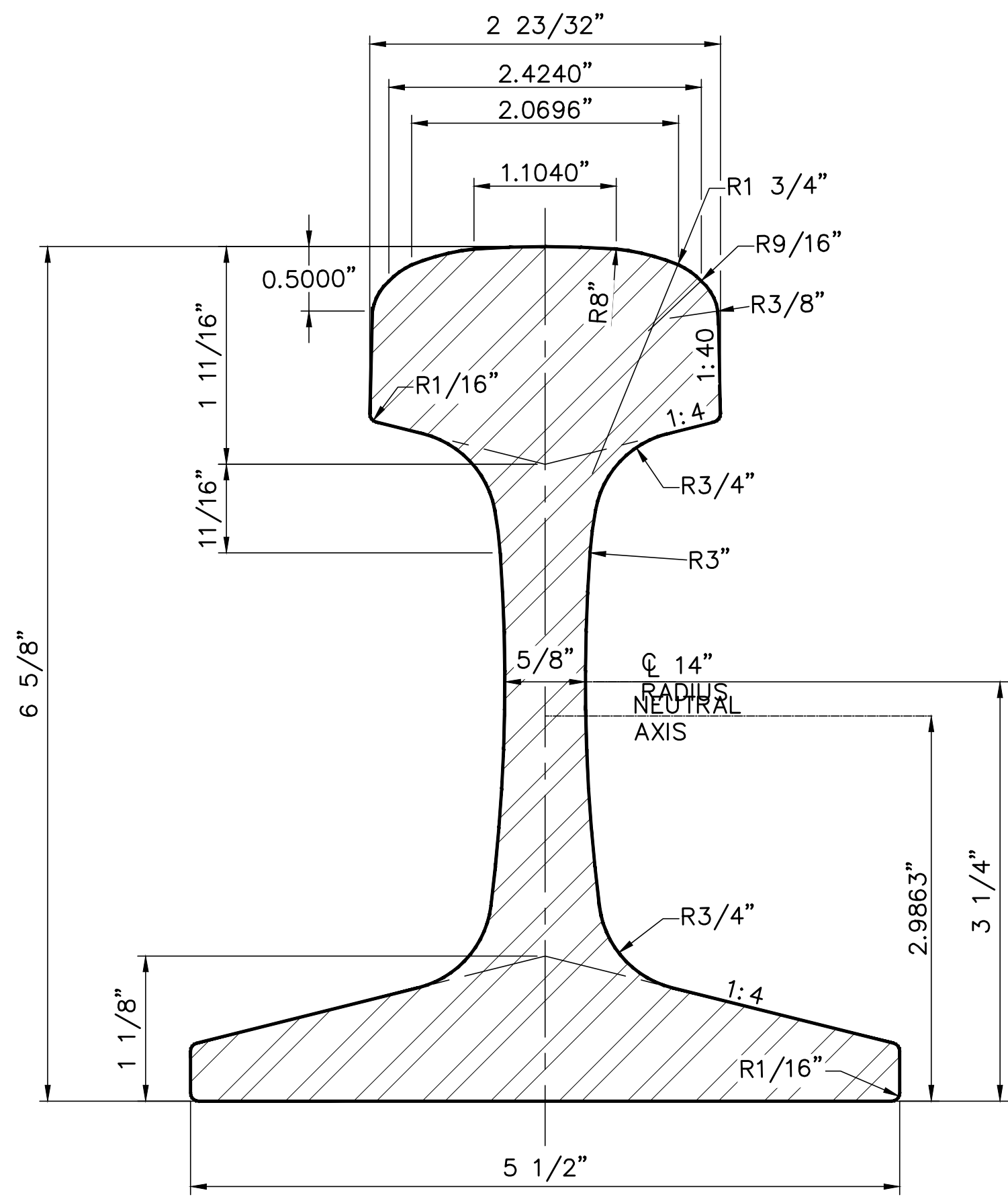
3 CONCRETE CROSSING PANELS
SCALE: NTS



4 WALKWAY PATH ASPHALT FLANGEWAY
SCALE: NTS

PORT OF BENTON 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 (800) 979-3000	APPROVED: #	CHECKED BY: JAV	DATE: 07/17/2024
	DIRECTOR ENG. DATE: #	PROJ. ENGR: TJH	DATE: 07/17/2024
kpff KINSEY WASHINGTON ENGINEERS ARCHITECTS PLANNERS	PROJECT #:	C2023-63	RANGE: 28E
	FEDERAL AID #:	TBD	DATE-HRZ: W83-SF
PHASE:	BID SET	PARCEL: N/A	DRAWING SCALE: AS SHOWN
R3 17 OF 33	PORT OF BENTON WHITE BLUFF RAIL SR 240 RAIL CROSSING RAIL DETAILS		
PROJECT #:	C2023-63	TOWNSHIP:	10N
FEDERAL AID #:	TBD	DATE-HRZ:	W83-SF
PHASE:	BID SET	PARCEL:	N/A
MARK:	REVISION: #	BY: #	DATE: #
APP: #	BY: #	DATE: #	

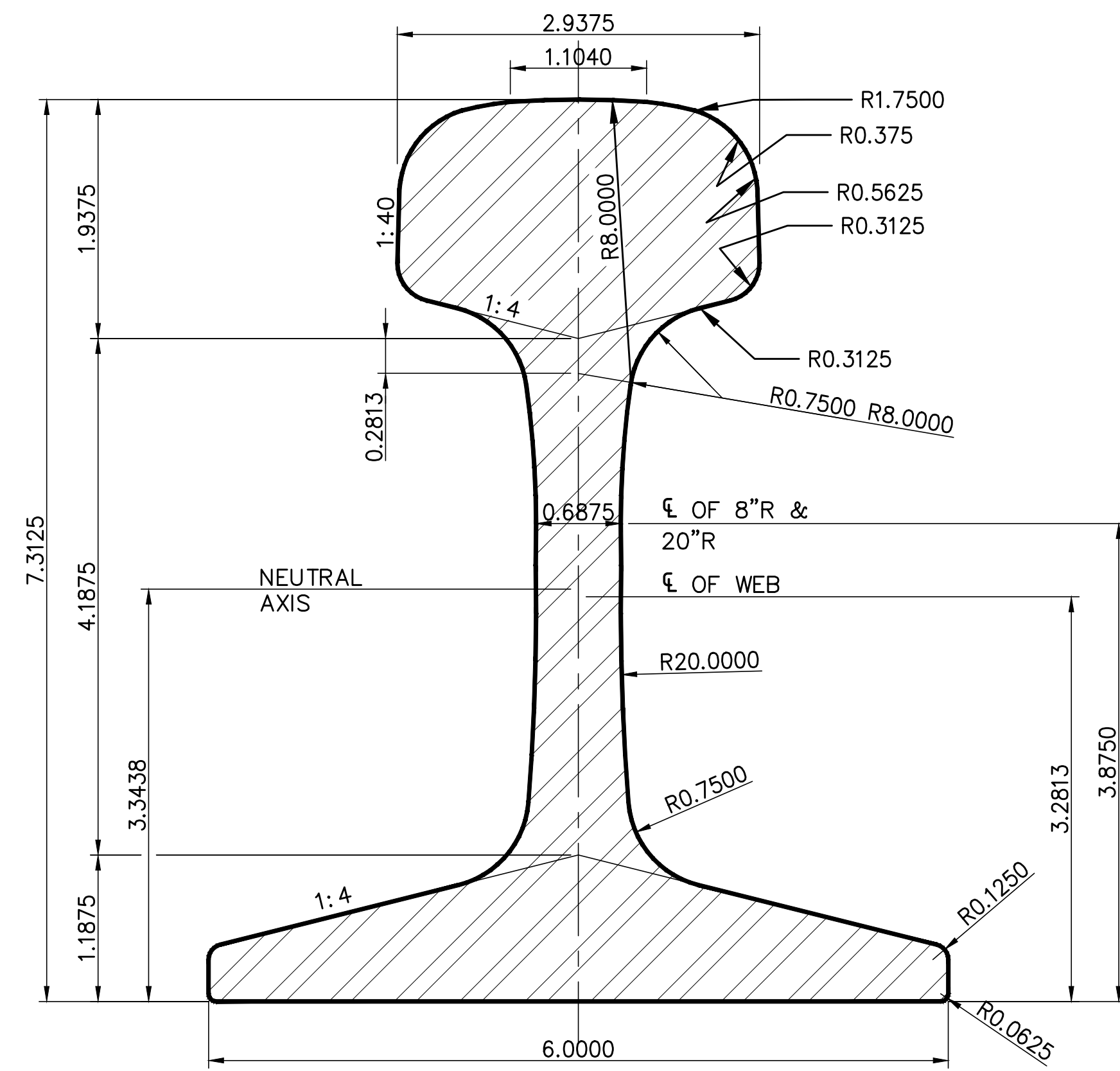
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PROPERTIES

AREA OF HEAD	3.91 SQ. IN.	34.8%
AREA OF WEB	3.05 SQ. IN.	27.1%
AREA OF BASE	4.29 SQ. IN.	38.1%
TOTAL AREA	11.25 SQ. IN.	100.0%
MOMENT OF INERTIA	65.6	
SECTION MODULUS, HEAD	18.0	
SECTION MODULUS, BASE	22.0	
WEIGHT	114.7 LBS PER YARD	

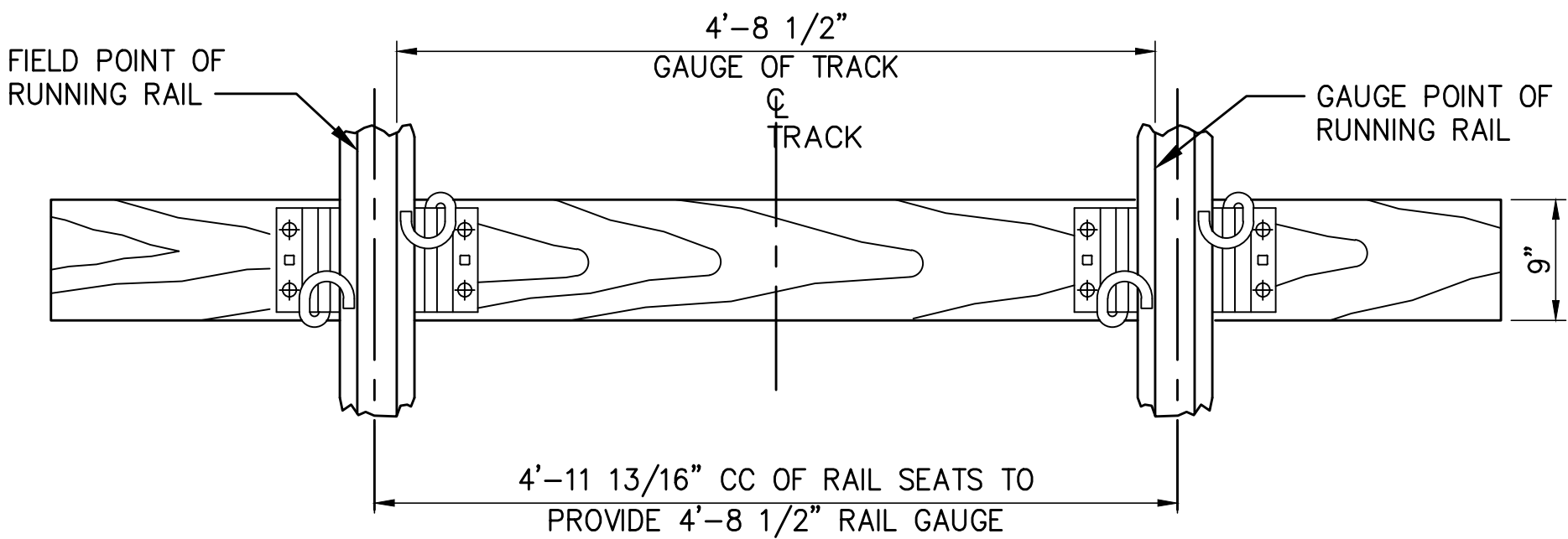
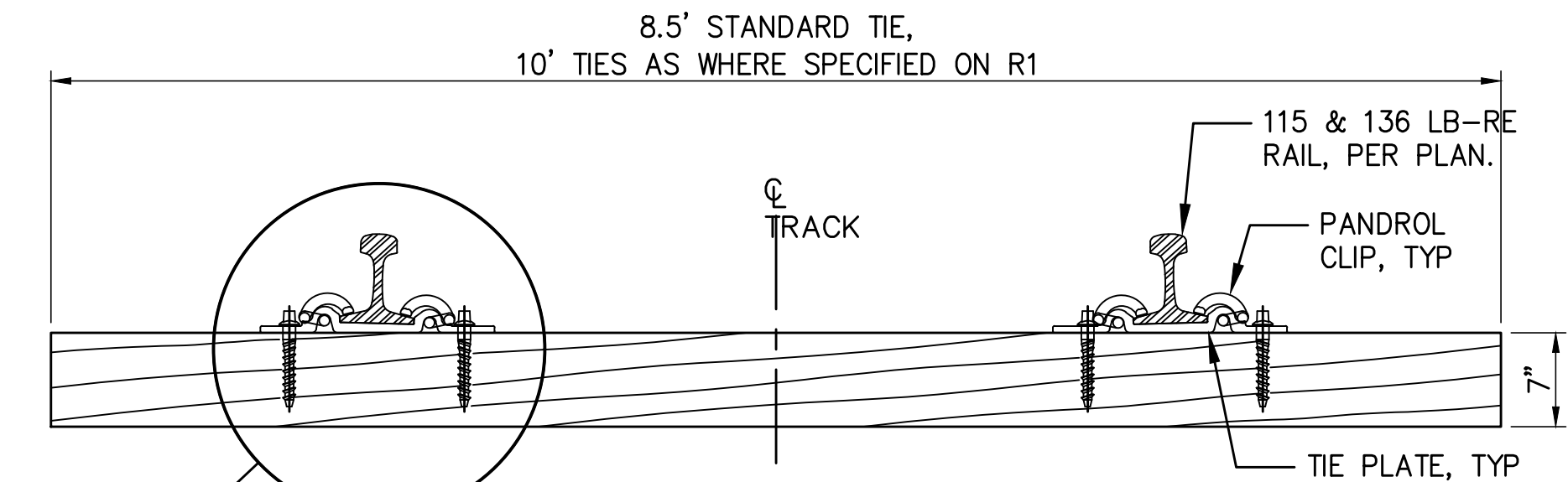
1 RAIL SECTION #115
SCALE: 1" = 1'



PROPERTIES

AREA OF HEAD	4.8187 SQ. IN.	36.2%
AREA OF WEB	3.6375 SQ. IN.	27.3%
AREA OF BASE	4.8702 SQ. IN.	36.5%
TOTAL AREA	13.3263 SQ. IN.	100.0%
MOMENT OF INERTIA	94.20	
SECTION MODULUS, HEAD	23.70	
SECTION MODULUS, BASE	28.20	
WEIGHT	135.8826 LBS PER YARD	

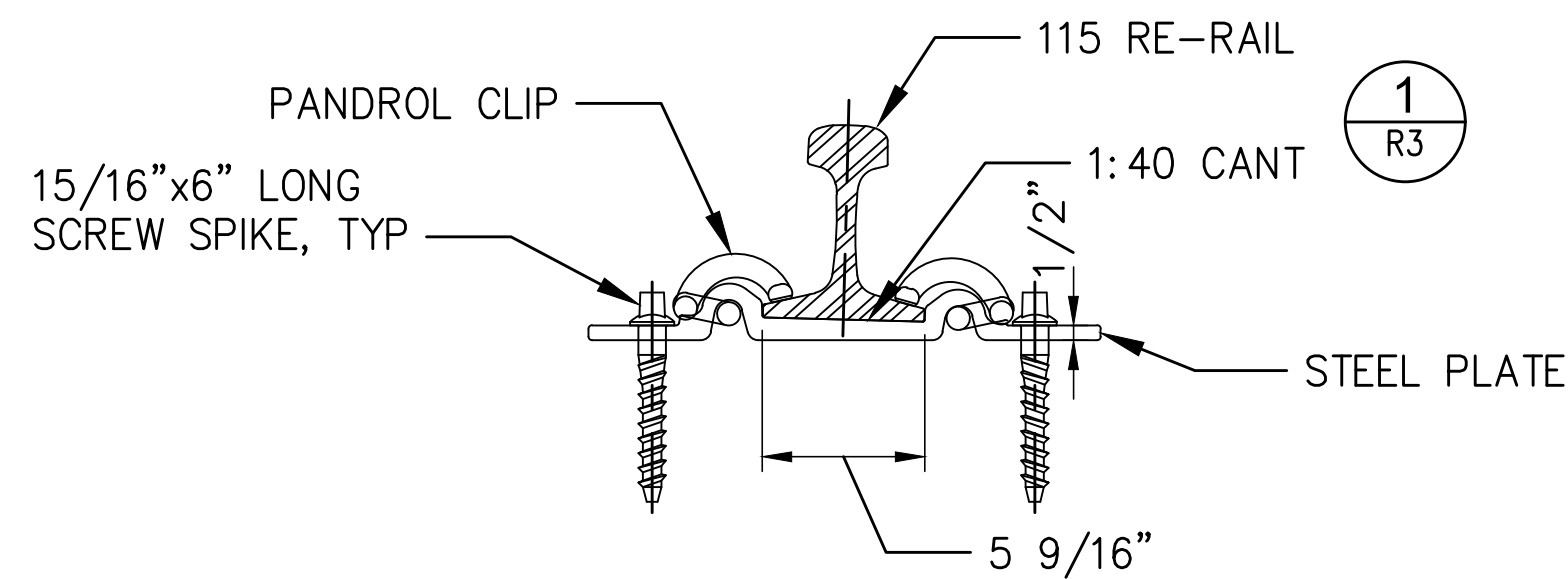
2 RAIL SECTION 136#
SCALE: 1" = 1'



ELEVATION

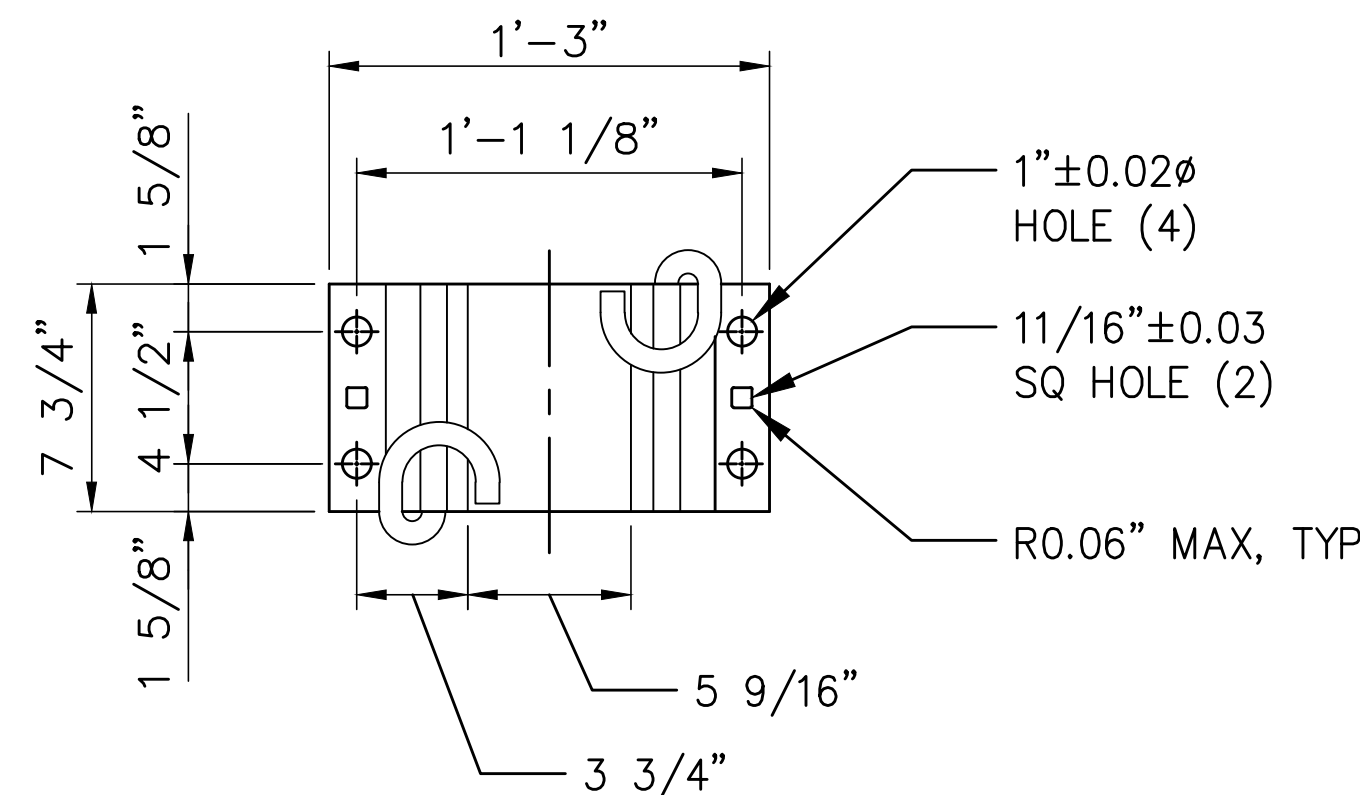
PLAN

3 TIMBER TIE
SCALE: 1" = 1'

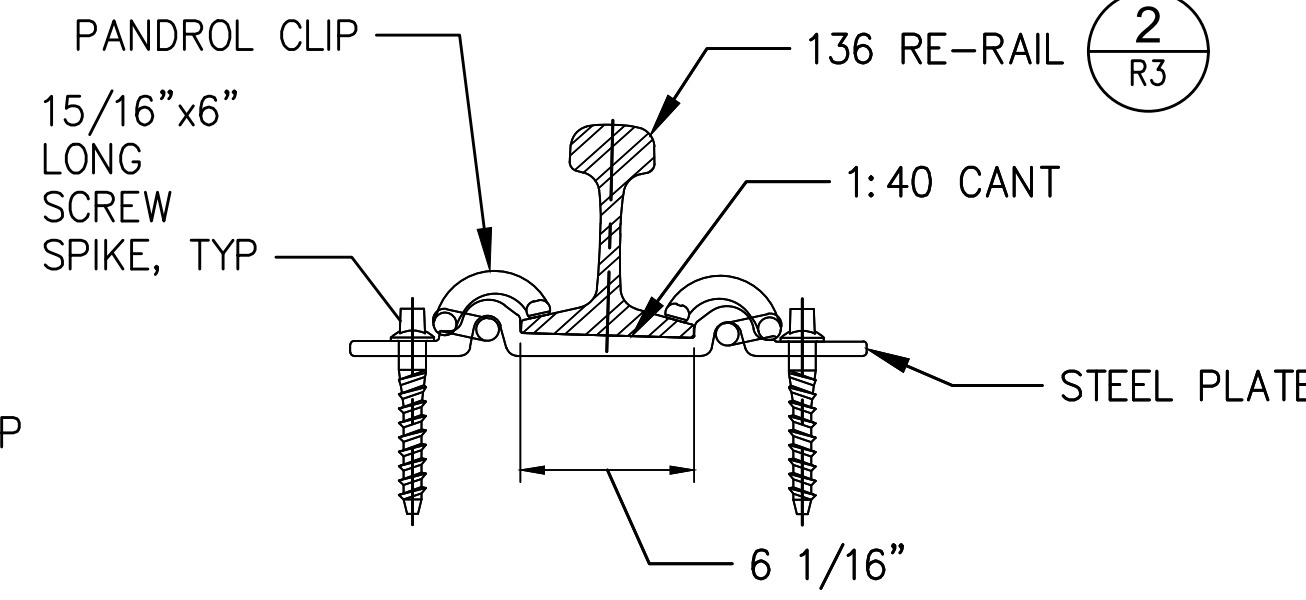


PANDROL TYPE e2055 CLIPS
ON TIMBER TIES

4 TIMBER TIE FASTENERS W/115# RAIL
SCALE: 1 1/2" = 1'

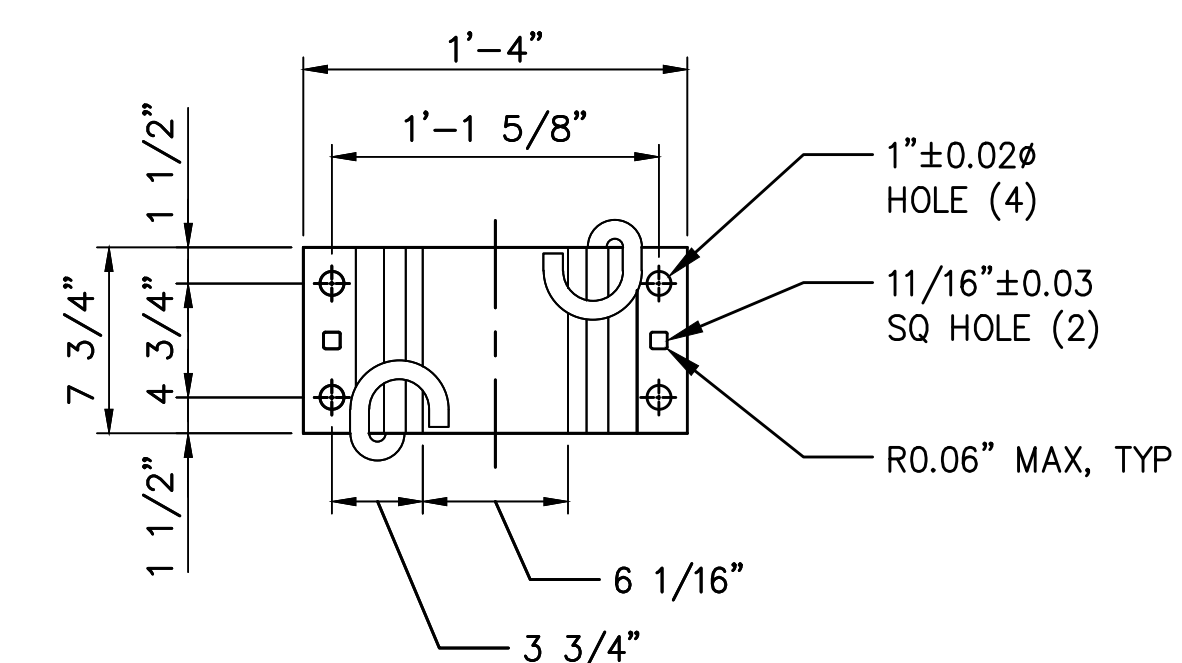


TYPICAL STANDARD PLATE
FOR PANDROL TYPE e2055 CLIP



PANDROL TYPE e2055 CLIPS
ON TIMBER TIES

5 TIMBER TIE FASTENERS W/136# RAIL
SCALE: 1 1/2" = 1'



TYPICAL STANDARD PLATE
FOR PANDROL TYPE e2055 CLIP

2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

DATE:
BY:
APPR:
REVISION:
MARK:

#

APPROVED:	JAV	07/17/2024
#	CHECKED BY	DATE
	TJH	07/17/2024
	PROJ. ENGR	DATE
	Jososs	Jul 17, 2024
	DIRECTOR ENGR.	DATE
	3250 PORT OF BENTON BLVD	
	PORT ADDRESS:	
	RICHLAND WA, 99354	

PORT OF BENTON
RAIL DETAILS
WHITE BLUFF RAIL SR 240 RAIL CROSSING

RANGE: 28E SECTION: 23
TOWNSHIP: 10N NAVD88 CITY OF RICHLAND
DATE-HRZ: W63-SF VERT: N/A DRAWING SCALE: AS SHOWN

PROJECT #: C2023-63
FEDERAL AID #: TBD
PHASE: BID SET

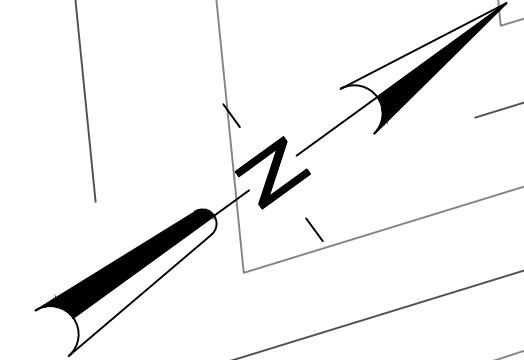
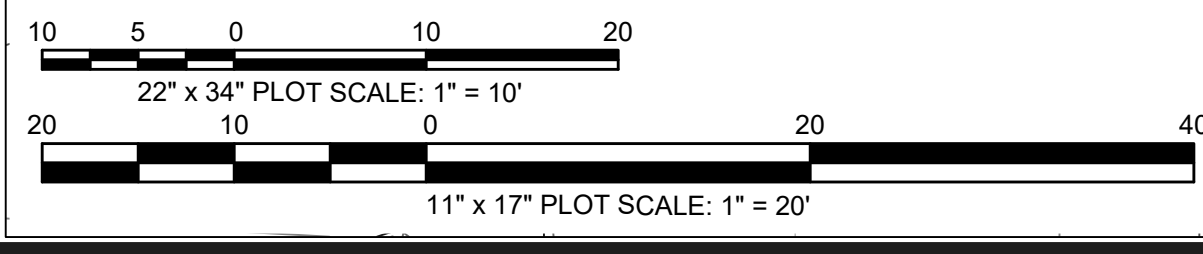
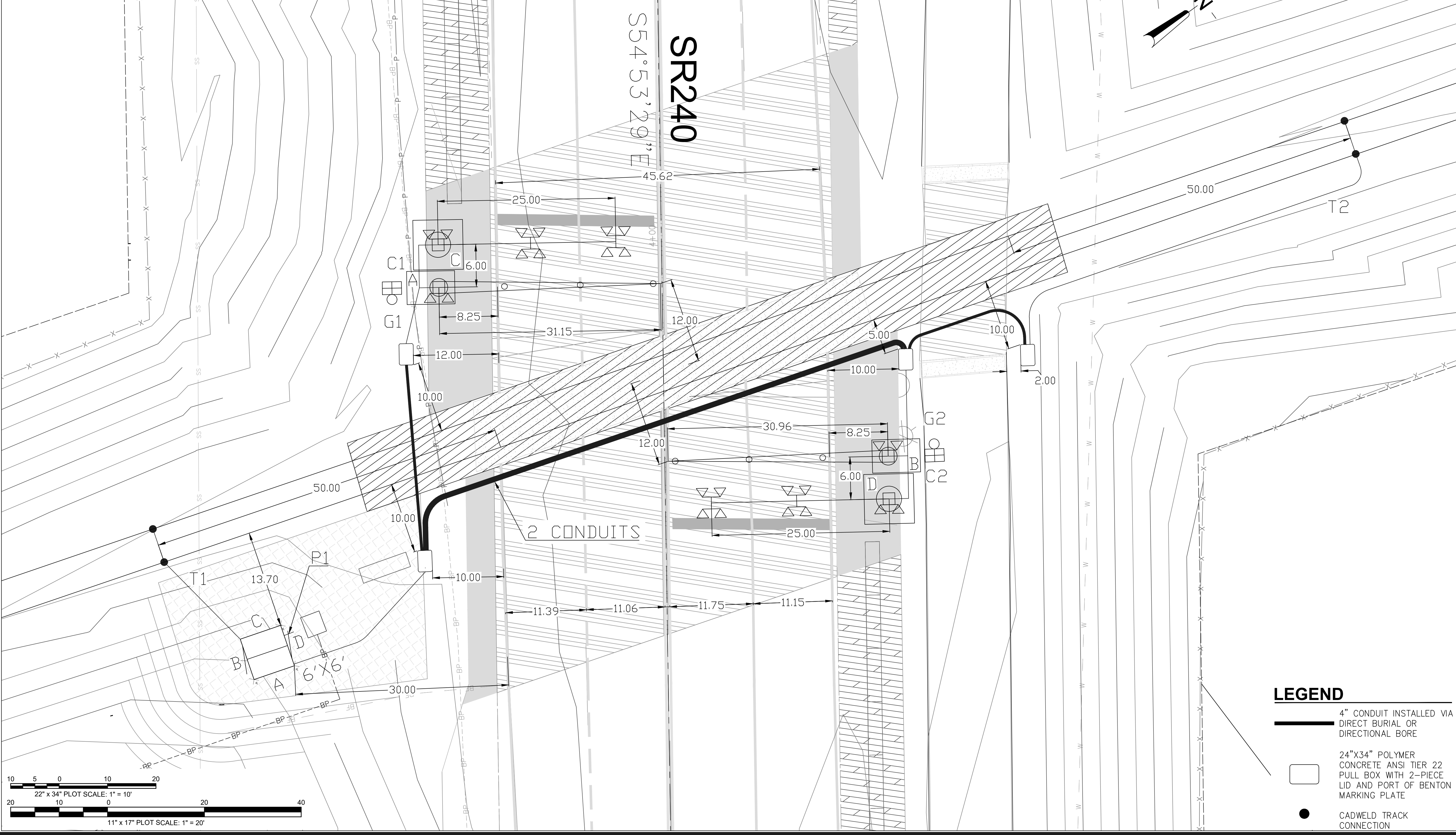
18 OF 33
R4

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BINDING EDGE

PORT OF BENTON FILE: Y:\Railroad\214500\214515.00\Crossing_Files\Rail_Signal_Design\CAD_Files\Front_Sheet\S1


CABLE	FROM/TO	TYPE
T1	HOUSE TO TRACK	HDDB 2C#6-TW
T2	HOUSE TO TRACK	HDDB 2C#6-TW
G1	HOUSE TO GATE A	HDDB 3C#6, 5C#9, 7C#14
G2	HOUSE TO GATE B	HDDB 3C#6, 5C#9, 7C#14
C1	HOUSE TO CANTILEVER C	HDDB 5C#9
C2	HOUSE TO CANTILEVER D	HDDB 5C#9
P1	POWER DISCONNECT TO HOUSE	HDDB 3C#4

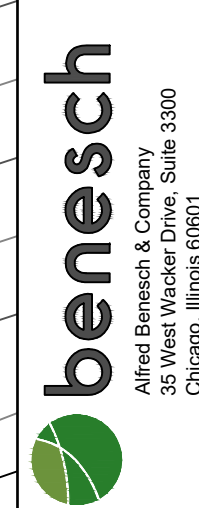


LEGEND


-  4" CONDUIT INSTALLED VIA DIRECT BURIAL OR DIRECTIONAL BORE
-  24"x34" POLYMER CONCRETE ANSI TIER 22 PULL BOX WITH 2-PIECE LID AND PORT OF BENTON MARKING PLATE
-  CADWELD TRACK CONNECTION

#1 19 OF 33	PORT OF BENTON WHITE BLUFF RAIL SR 240 RAIL CROSSING GRADE CROSSING SITE LAYOUT		APPROVED: SAMUEL C. BUCHANAN	KPM 7/17/2024	CHECKED BY: SCB	DATE 7/17/2024	
	TOWNSHIP: 10N RANGE: 28E SECTION: 23	DAT-HRZ: W83-SF VERT: NAVD88 CITY OF RICHLAND	DIRECTOR ENG. DATE sbuchanan Jul 17, 2024	PROJ. ENGR DATE	PRINTED BY: sbuchanan Jul 17, 2024		
CONT/CONS: 214515.00		M. ID: 310401F		PORT ADDRESS: 3250 PORT OF BENTON BLVD RICHLAND, WA, 99354		DATE: ###/###/###	
PHASE: 100% DESIGN		PARCEL: #		DRAWING SCALE: AS SHOWN		BY: ###/###/###	
				REVISION: ###/###/###		APPR: ###/###/###	
				MARK: ###/###/###		DATE: ###/###/###	



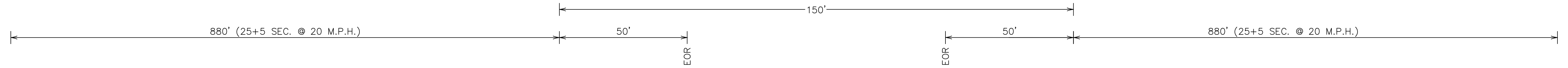


Allied Benesch & Company
 35 West Wacker Drive, Suite 3300
 Chicago, Illinois 60601
 312-565-6450



3250 PORT OF BENTON BLVD, RICHLAND, WA 99354
 (509) 935-1800

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FSS-1
979HZ

T2

T1

DTMF

6'x6'

30'

979HZ 4.0KHZ

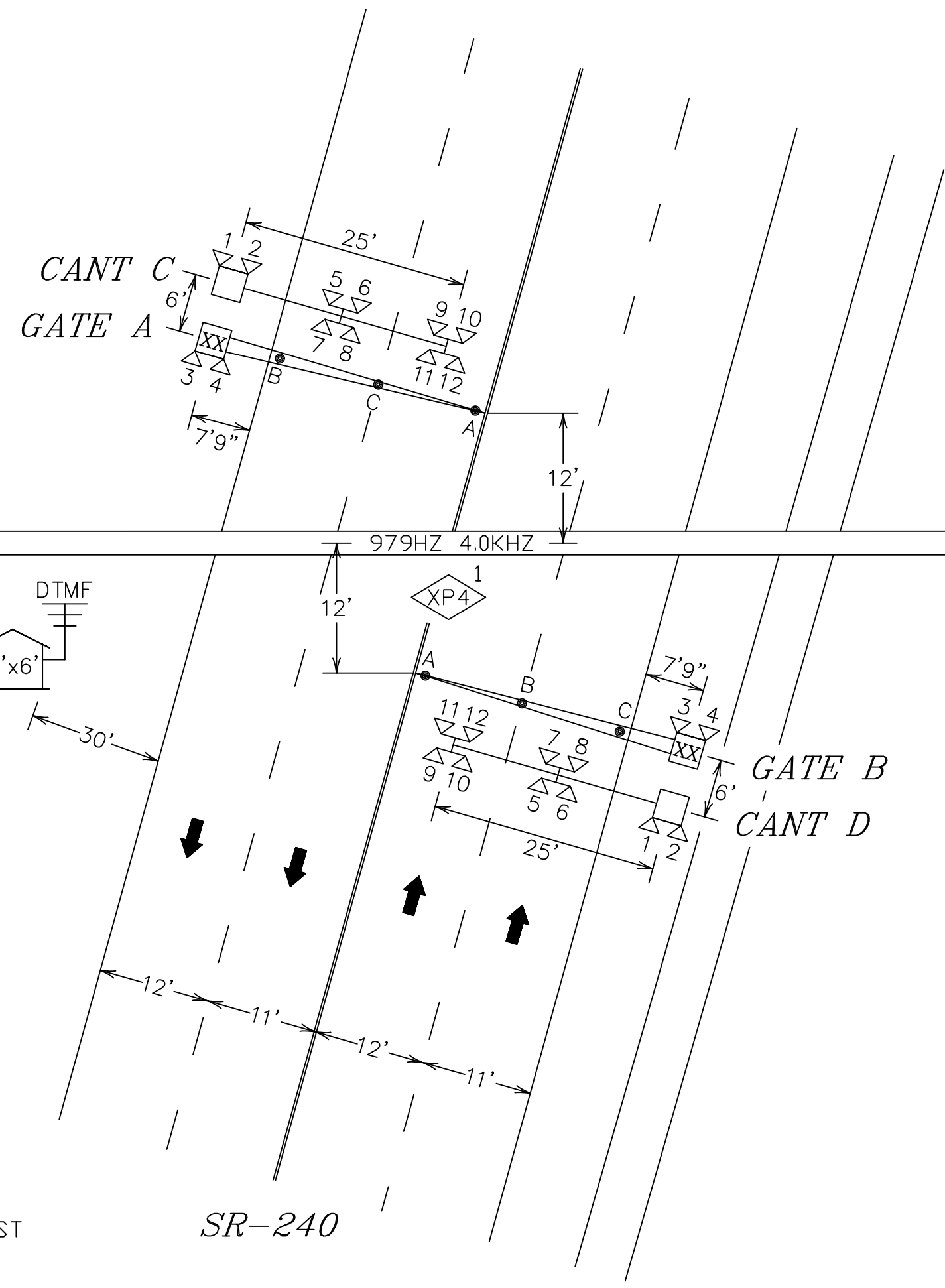
XP4

R2

R1

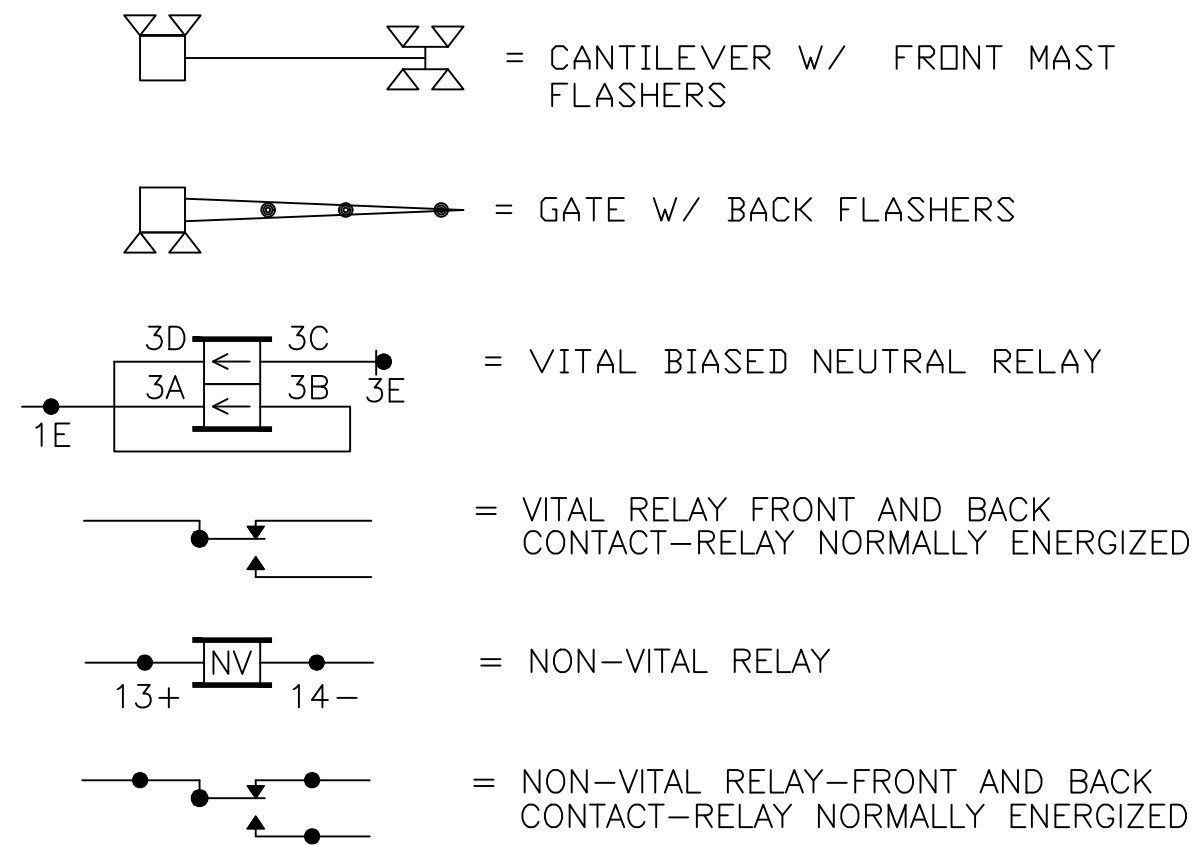
MAIN

HWS



LEGEND:

- = TEST LINK
- = HEAVY DUTY LIGHTNING ARRESTER
- = HEAVY DUTY EQUALIZER
- = TWISTED 2 TURNS PER FOOT.
- = BELL
- = INSULATED NUT.
- = ELECTROLOGIXS XP4 - BIDIRECTIONAL
- = ELECTROLOGIXS XP4 - UNIDIRECTIONAL
- = DIGITAL INPUT RECORDER CONNECTION
- = CONDUIT
- = HARDWIRE SHUNT
- = FREQUENCY SELECTABLE SHUNT
- = DTMF ANTENNA



ALL WIRING #16 AWG UNLESS OTHERWISE NOTED. ALL SHEETS.

SR-240

CONSTRUCTION NOTES:

1. DOUBLE BOND ALL NON-INSULATED JOINTS IN APPROACHES AND 100' PAST HWS/FSS.
2. CONTRACTOR TO COORDINATE WITH CIVIL CONTRACTOR DURING CROSSING SURFACE REPLACEMENT FOR INSTALLATION OF UNDER-ROADWAY AND UNDER-PATHWAY CONDUIT.
3. CANTILEVER SIGNALS TO INCLUDE BACKLIGHT DEFLECTOR TO ASSIST IN PREVENTING LIGHT UNIT MISALIGNMENT BY GATE ARM.
4. GATE ARMS TO BE HIGH WIND PROFILE TYPE. GATE MASTS ARE TO BE PROVIDED WITH TWO WIND BRACKETS, ONE BRACKET AT AND ELEVATION OF 12' WITH MINIMUM 22' MOUTH, AND ONE BRACKET WITH MINIMUM 36' MOUTH ABOVE 17' ELEVATION.
5. PROVIDE BI-DIRECTIONAL GATE KEEPER FOR EACH SIGNAL.
6. CONTRACTOR TO REFERENCE SHEET 1 FOR CONDUIT AND PULL BOX DETAILS.
7. ISLAND TRACK CIRCUIT TO BE A MINIMUM OF 120' XMT LEADS TO RCV LEADS.

APPROACH AND WARNING TIME CALCULATION	MAIN
MINIMUM WARNING TIME	25 SEC
PLUS CLEARANCE TIME	0 SEC
PLUS ADDITIONAL GATE DELAY	0 SEC
PLUS BUFFER TIME	5 SEC
TOTAL WARNING TIME	30 SEC
TOTAL WARNING TIME	30 SEC
PED CLEAROUT	0 SEC
PLUS ADVANCE PREEMPT	0 SEC
TOTAL APPROACH TIME	30 SEC
MAXIMUM TRAIN SPEED	20 MPH
TIMES RATIO OF FT/SEC TO MPH	1.4667
TOTAL APPROACH DISTANCE	880 FT.



APPROVED: SAMUEL C. BUCHANAN
 CHECKED BY: KPM
 DATE: 7/17/2024
 DIRECTOR ENG. DATE: 7/17/2024
 PRINTED BY: sbuchanan
 PROJ. ENGR DATE: Jul 17, 2024
 PORT ADDRESS: 3250 PORT OF BENTON BLVD
 RICHLAND, WA, 99354

PORT OF BENTON
 WHITE BLUFF RAIL SR 240 RAIL CROSSING
 GRADE CROSSING TRACK LAYOUT

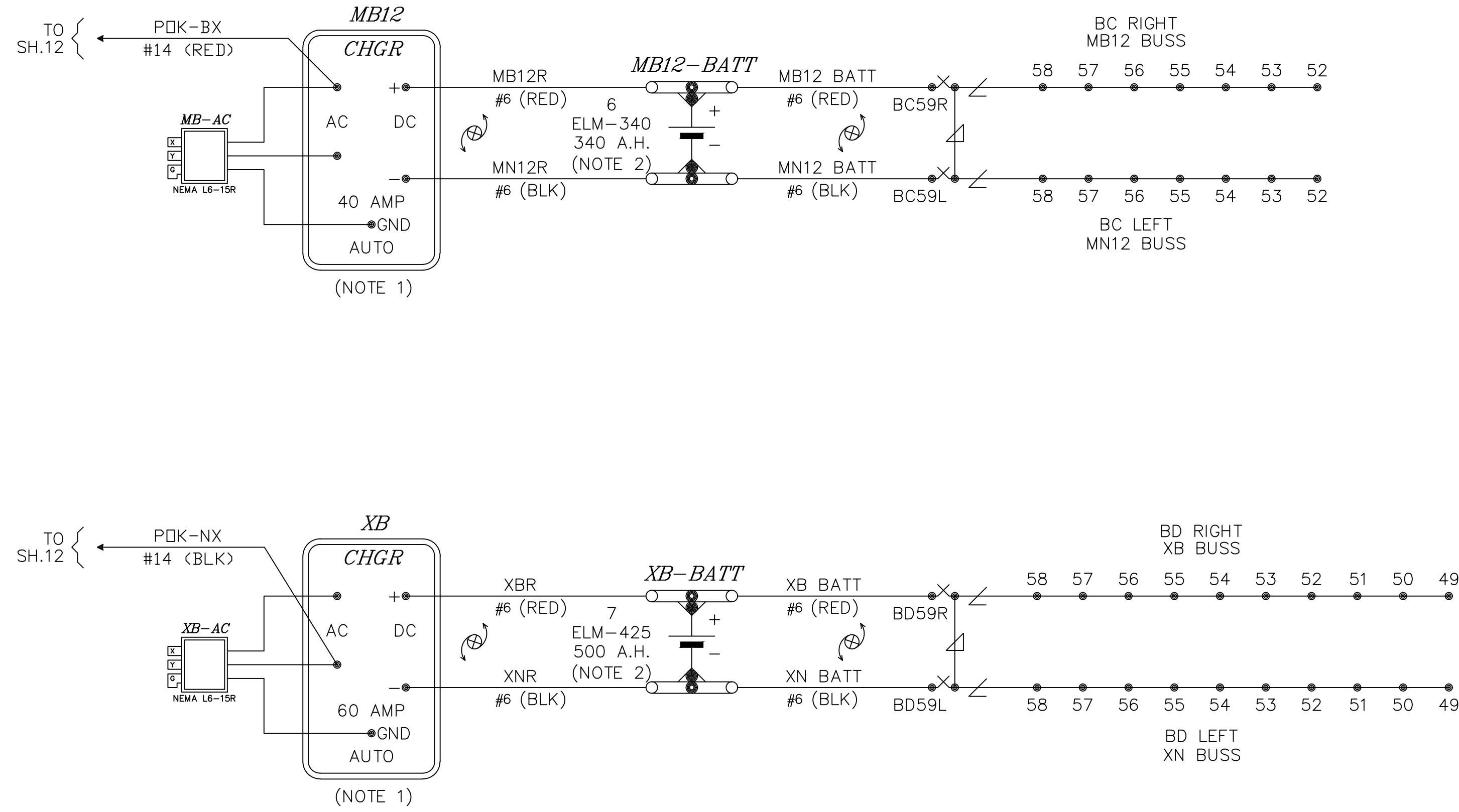
S2
 20 OF 33
 CONT/CONS: 214515.00
 M. ID: 310401F
 PHASE: 100% DESIGN
 TOWNSHIP: 10N
 RANGE: 28E
 SECTION: 23
 DAT-HRZ: W63-SF
 VERT: NAD88 CITY OF RICHLAND
 PARCEL: #
 DRAWING SCALE: AS SHOWN



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- NOTES:
1. USE 240 VOLT SETTING.
 2. USE 1/4" TERMINALS AT BATTERY CONNECTIONS.



S3
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PORT OF BENTON
WHITE BLUFF RAIL SR 240 RAIL CROSSING
DC POWER DISTRIBUTION

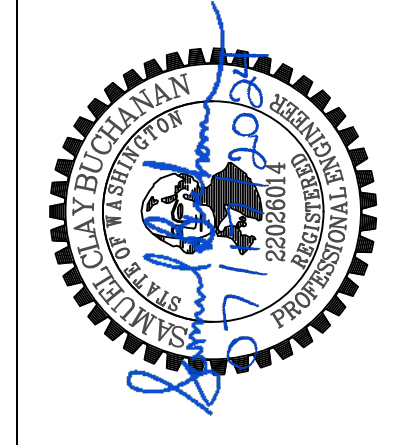
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M. ID:	310401F	DAT-HRZ:	W63-SF	VERT:	NAV088	CITY OF RICHLAND	
PHASE:	100% DESIGN	PARCEL:	#	DRAWING SCALE:	AS SHOWN		

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7/17/2024
DIRECTOR ENG. DATE

KPM 7/17/2024
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SCB 7/17/2024
PROJ. ENGR DATE

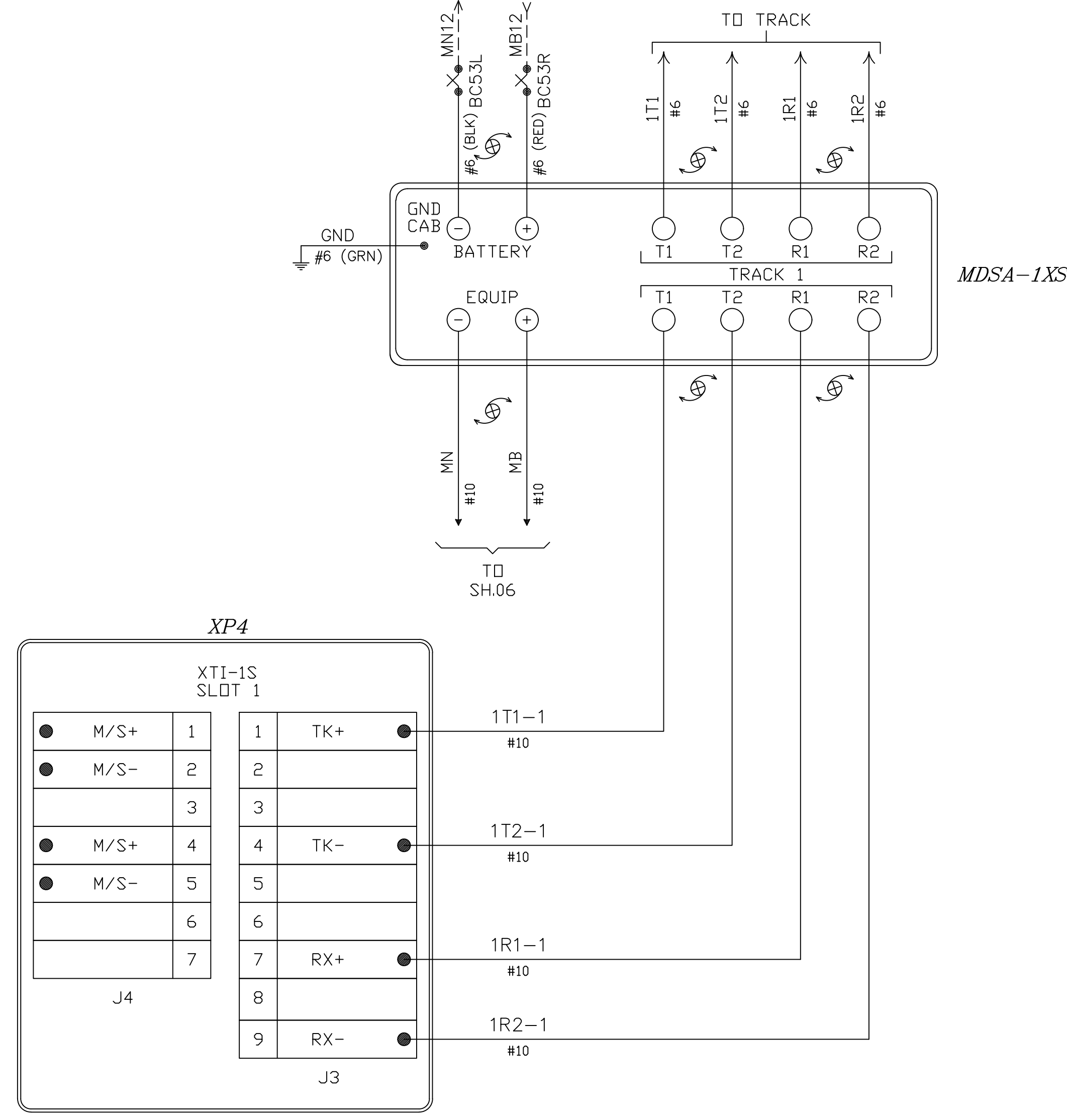
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S4
22 OF 33

CONT/CONS: 214515.00
M. ID: 310401F
PHASE: 100% DESIGN

TOWNSHIP: 10N
RANGE: 28E
SECTION: 23

DAT-HRZ: W63-SF
VERT: NAVD88 CITY OF RICHLAND

PARCEL: #
DRAWING SCALE: AS SHOWN

APPROVED: SAMUEL C. BUCHANAN
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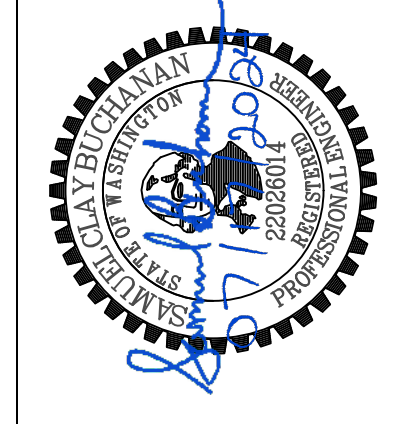
DIRECTOR ENG. DATE: sbuchanan Jul 17, 2024

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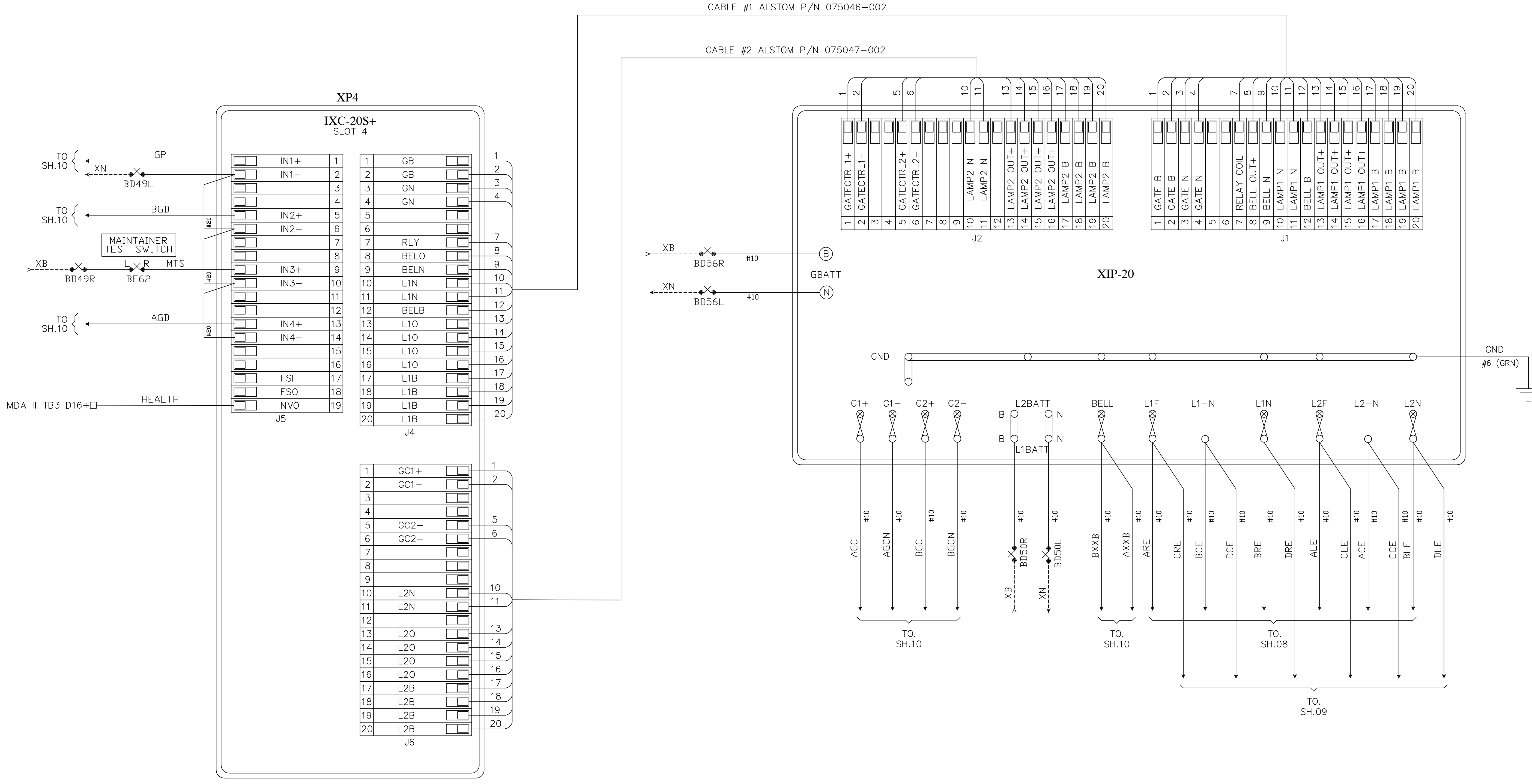


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S5
23 OF 33

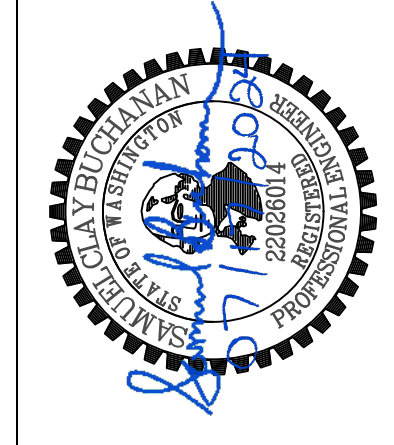
PORT OF BENTON
WHITE BLUFF RAIL SR 240 RAIL CROSSING
XP4 MODULE & XIP-20B CIRCUITS

TOWNSHIP: 10N RANGE: 28E SECTION: 23
 DAT-HRZ: W63-SF VERT: N40D88 CITY OF RICHLAND
 PARCEL: # DRAWING SCALE: AS SHOWN

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 CHECKED BY: KPM
 DATE: 7/17/2024
 DATE: 7/17/2024

DIRECTOR ENG. DATE: sbuchanan Jul 17, 2024
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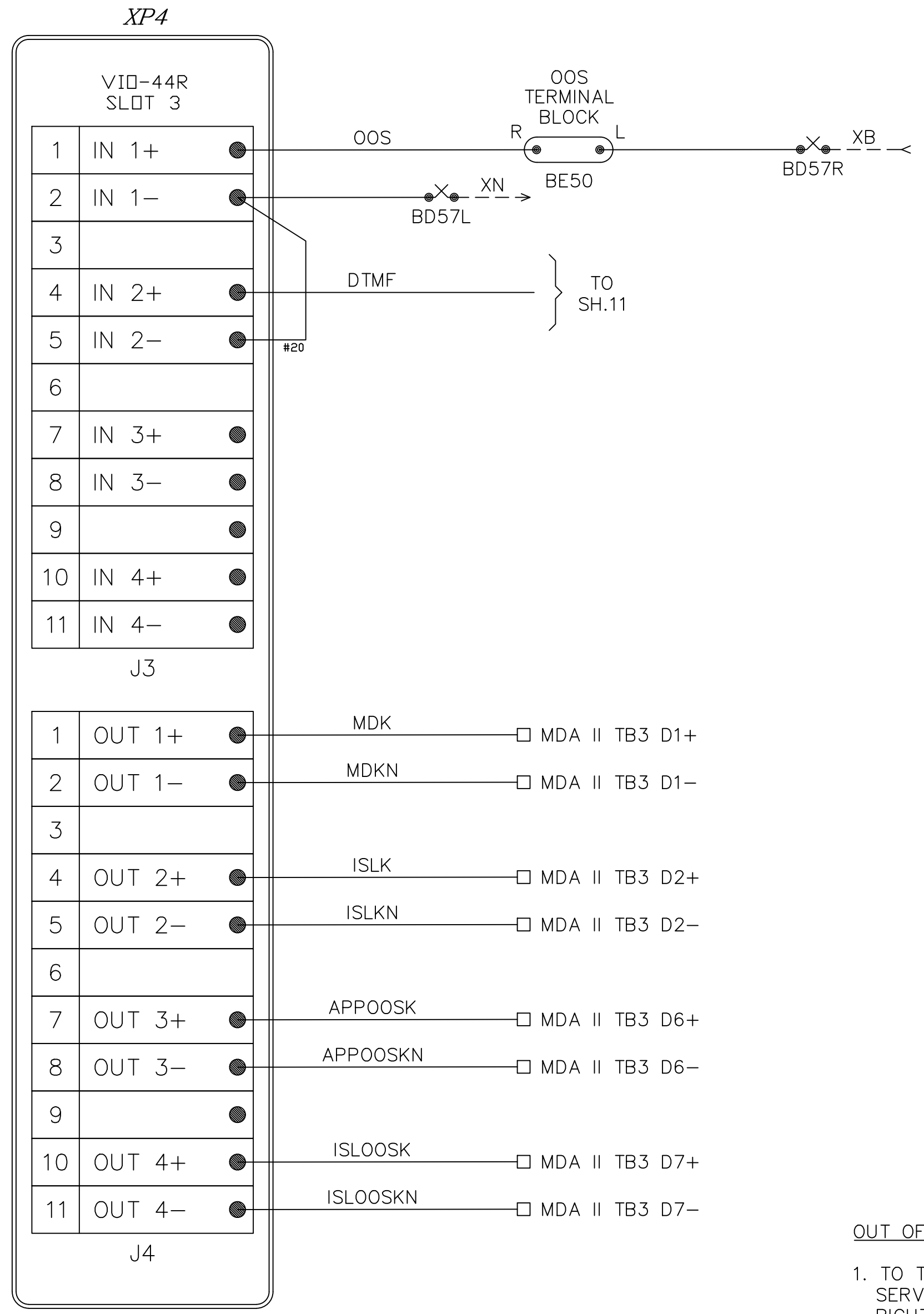
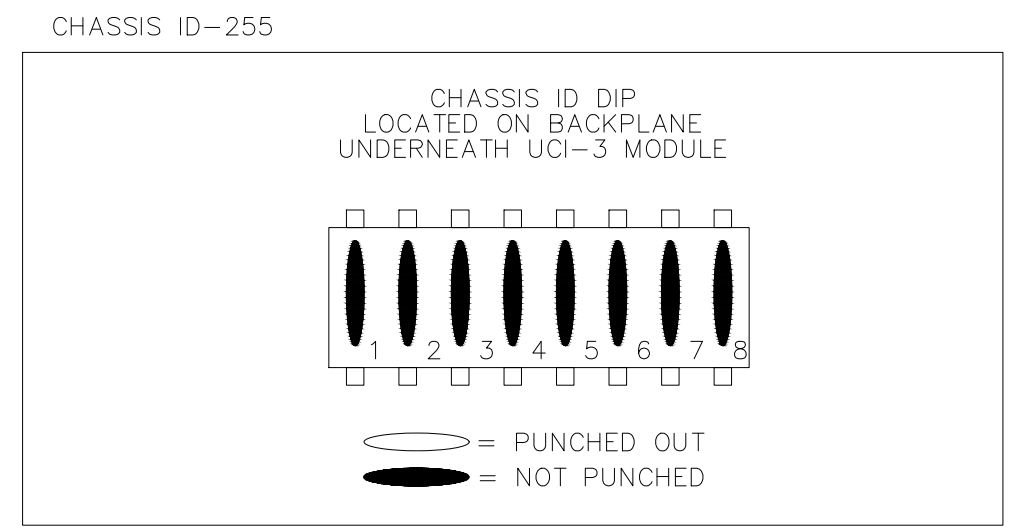
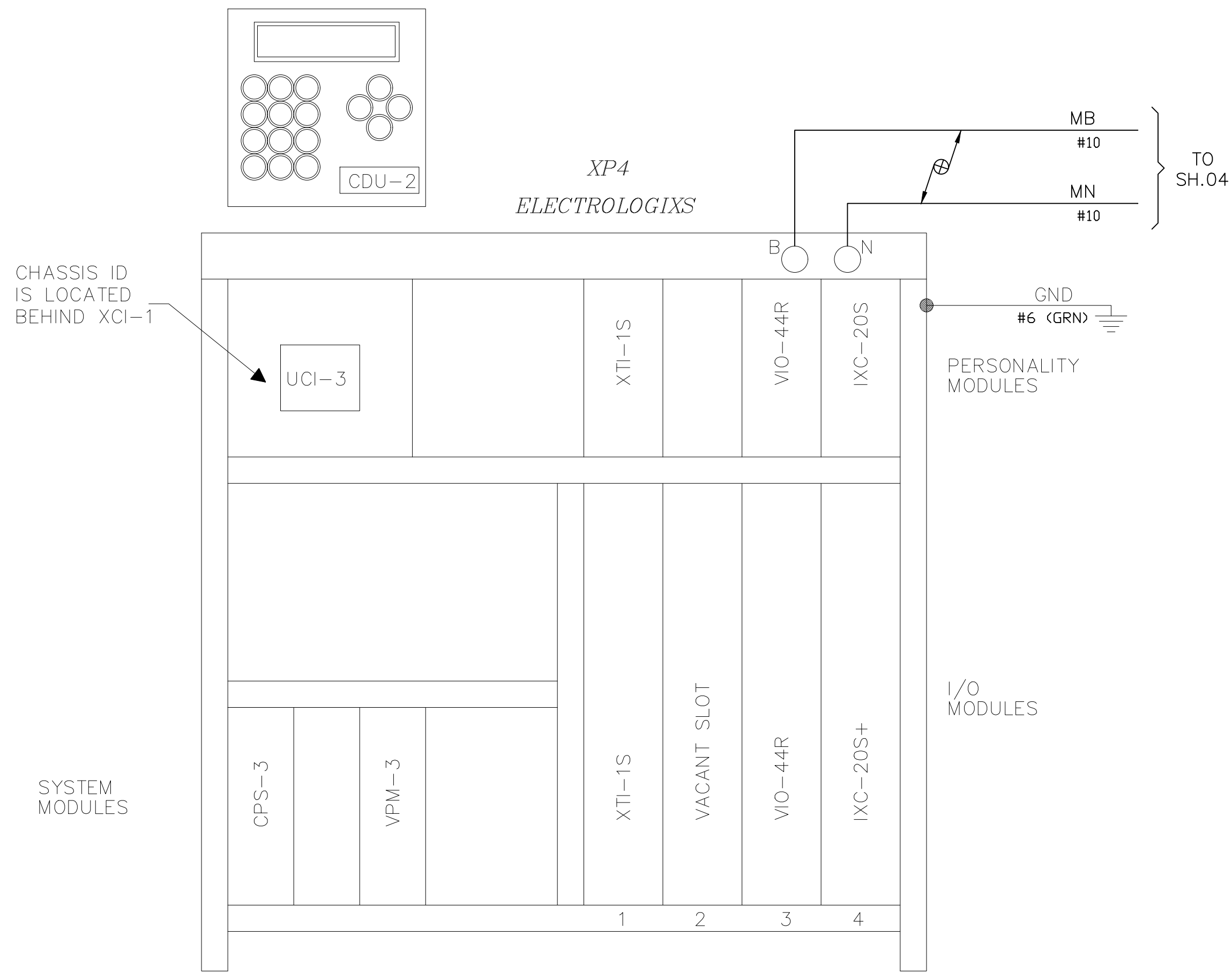


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- OUT OF SERVICE OPERATION:
1. TO TAKE CROSSING APPROACHES OUT OF SERVICE, APPLY JUMPER BETWEEN LEFT AND RIGHT TERMINALS OF OOS TERMINAL BLOCK.
 2. TO TAKE CROSSING ISLAND OUT OF SERVICE, APPLY JUMPER BETWEEN LEFT AND RIGHT TERMINALS OF OOS TERMINAL BLOCK, THEN USE CDU OUT OF SERVICE MENU TO CONFIRM ISLAND OUT OF SERVICE.

## S6 24 OF 33	CONT/CONS: 214515.00 M. ID: 310401F PHASE: 100% DESIGN	TOWNSHIP: 10N RANGE: 28E DAT-HRZ: W63-SF VERT: NAVD88 CITY OF RICHLAND PARCEL: #	SECTION: 23 DRAWING SCALE: AS SHOWN	APPROVED: SAMUEL C. BUCHANAN 7/17/2024 DIRECTOR ENG. DATE	KPM CHECKED BY: SCB DATE: 7/17/2024 PROJ. ENGR DATE: sbuchanan Jul 17, 2024 PORT ADDRESS: 3250 PORT OF BENTON BLVD RICHLAND, WA, 99354			benesch Allied Benesch & Company 35 West Wacker Drive, Suite 3300 Chicago, Illinois 60601 312-555-9459	PORT OF BENTON 3250 PORT OF BENTON BLVD, RICHLAND, WA 99354 (509) 375-3800
	MARK: # REVISION: # BY: # APPR: # DATE: #	MARK: # REVISION: # BY: # APPR: # DATE: #	MARK: # REVISION: # BY: # APPR: # DATE: #	MARK: # REVISION: # BY: # APPR: # DATE: #	MARK: # REVISION: # BY: # APPR: # DATE: #	MARK: # REVISION: # BY: # APPR: # DATE: #	MARK: # REVISION: # BY: # APPR: # DATE: #	MARK: # REVISION: # BY: # APPR: # DATE: #	MARK: # REVISION: # BY: # APPR: # DATE: #

MDR SETUP																									
		MDR1				MDR2				MDR3				MDR4				MDR5				MDR6			
NAME		MD1																							
WARNING TIME		25 SEC																							
CW/MD		CW																							
AP TIME		0 SEC																							
CWE-WT		80 SEC																							
AUX RECOVERY DELAY		5 SEC																							
		TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4
TRACK ASSIGNED		ASSIGN																							
OFFSET DISTANCE		0 FT																							
MD RESTART		10 ★																							
SUDDEN SHUNT ZONE		0																							
POSITIVE START	PSEN	DISABLE																							
	PSRX																								
	PST																								
POST JOINT DETECT	PJEN	DISABLE																							
	PJRX																								
	PJDT																								
CLEAR JOINT LOS	MODE	STANDARD																							
	CJRX	15																							
	CALC	99																							

MDR SETUP																									
		MDR7				MDR8				MDR9				MDR10				MDR11				MDR12			
NAME																									
WARNING TIME																									
CW/MD																									
AP TIME																									
CWE-WT																									
AUX RECOVERY DELAY																									
		TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4
TRACK ASSIGNED																									
OFFSET DISTANCE																									
MD RESTART																									
SUDDEN SHUNT ZONE																									
POSITIVE START	PSEN																								
	PSRX																								
	PST																								
POST JOINT DETECT	PJEN																								
	PJRX																								
	PJDT																								
CLEAR JOINT LOS	MODE	STANDARD																							
	CJRX	15																							
	CALC	99																							

BASIC TRACK SETUP				
	TRACK 1	TRACK 2	TRACK 3	TRACK 4
FREQUENCY	979 HZ			
MASTER/SLAVE	MASTER			
RX ADJUST	100			
TCA	*			
DIRECTION MODE	BI			
LIA	0 ★			
ADVANCED APR. CAL	INACTIVE			
NBS COMP RX	*			
TRK ISLAND ASSIGN	ISL1			
APPROACH LENGTH	880 FT			
AUTO RX	ENABLE			
BALLAST COMP	*			
PHASE COMP	*			

ADVANCE TRACK SETUP					
		TRACK 1	TRACK 2	TRACK 3	TRACK 4
MOTION DET TIMER	MDEN	ENABLE			
	MDTT	10 MIN			
FALSE SHUNT	FSEN	DISABLE			
	FSRX				
	FST				
APPROACH RELEASE	AREN	DISABLE			
	ARRX				
	ART				
LOS TIME		4 SEC★			
IJ-LOS TIME		5 SEC			
NRML_SHRT_VRYSHRT		SHRT*			

ISLAND SETUP				
	TRACK 1	TRACK 2	TRACK 3	TRACK 4
ENABLE/DISABLE	ENABLE			
FREQUENCY	4.0 KHZ			
LOSS OF SHUNT	2 SEC			
FAULT DELAY	1			
XMIT GAIN SCALAR	*			

IXC SETUP				
CROSSING TEST MODE	OFF			
FLASH RATE	55 FPM			
	IXC 1	IXC 2	IXC 3	IXC 4
VOLTAGE REGULATION	ON			
L1 VOLTAGE	★ 12.0V			
L2 VOLTAGE	★ 12.0V			
GATE 1 DELAY	★ 4 SEC			
GATE 2 DELAY	★ 4 SEC			

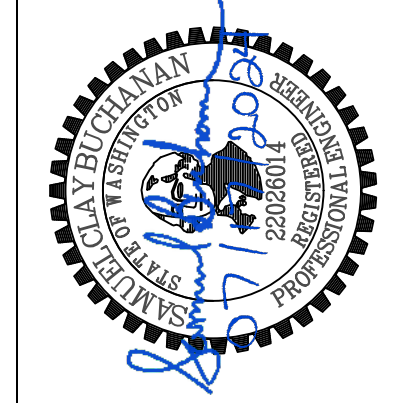
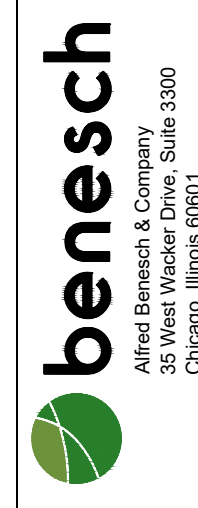
EXECUTIVE INFORMATION		
VPM-2+	VERSION	PART NUMBER
VPM-A PROCESSOR	*	*
VPM-B PROCESSOR	*	*
VPM-C PROCESSOR	*	*

APPLICATION SOFTWARE INFORMATION	
NAME	310401F
REV.	0
CHECKSUM	*
CRC	*
CHASSIS ID	255
ID STRAPPING	IIIIIIII

NOTES:

- FIELD TO PROVIDE EXECUTIVE VERSION AND PART NUMBER.
- CONTRACTOR TO BE PROVIDED APPLICATION PROGRAMMING PRIOR TO FACTORY TEST.

* = DETERMINED AT SETUP
 NA = NOT APPLICABLE
 ★ = FIELD ADJUST

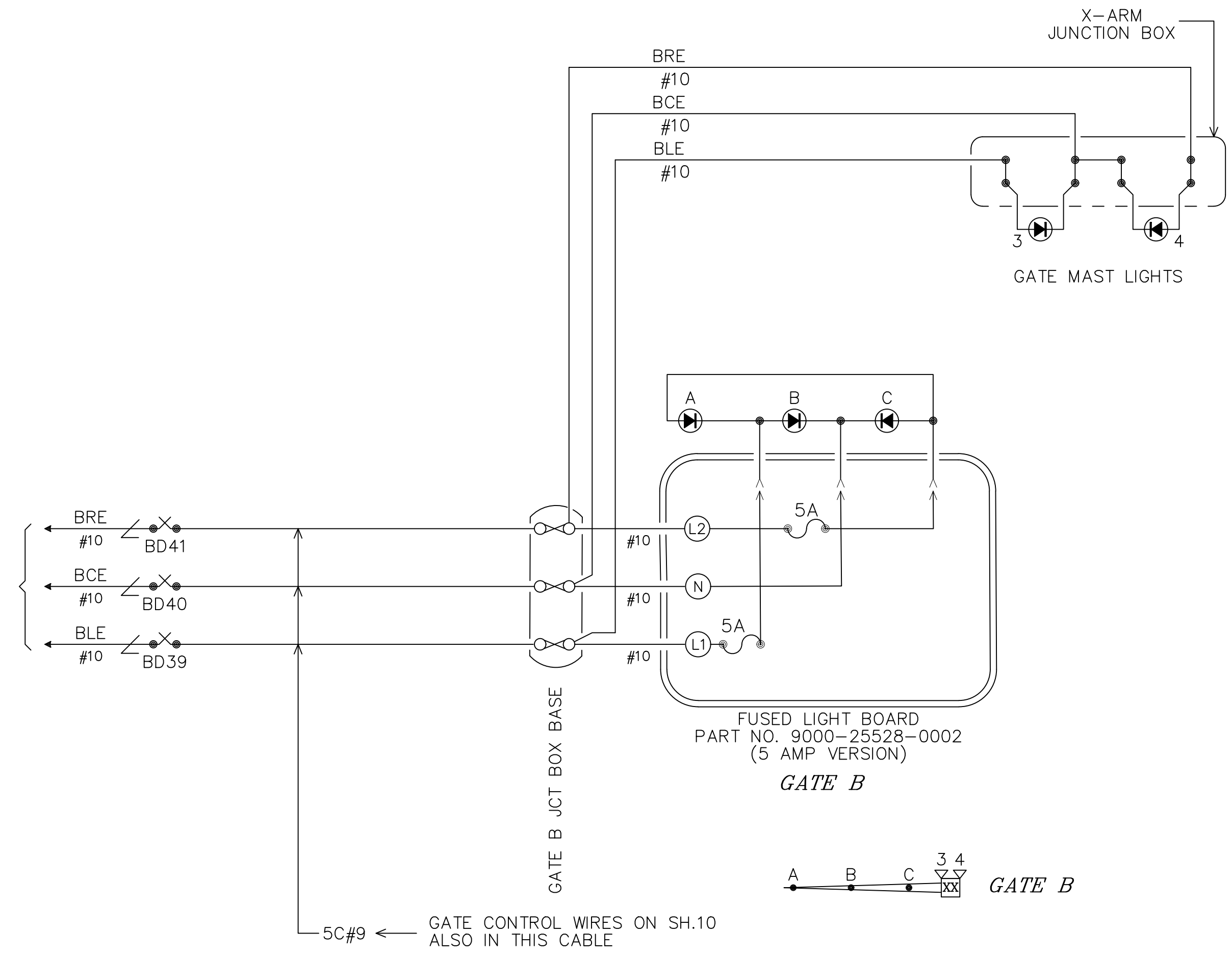
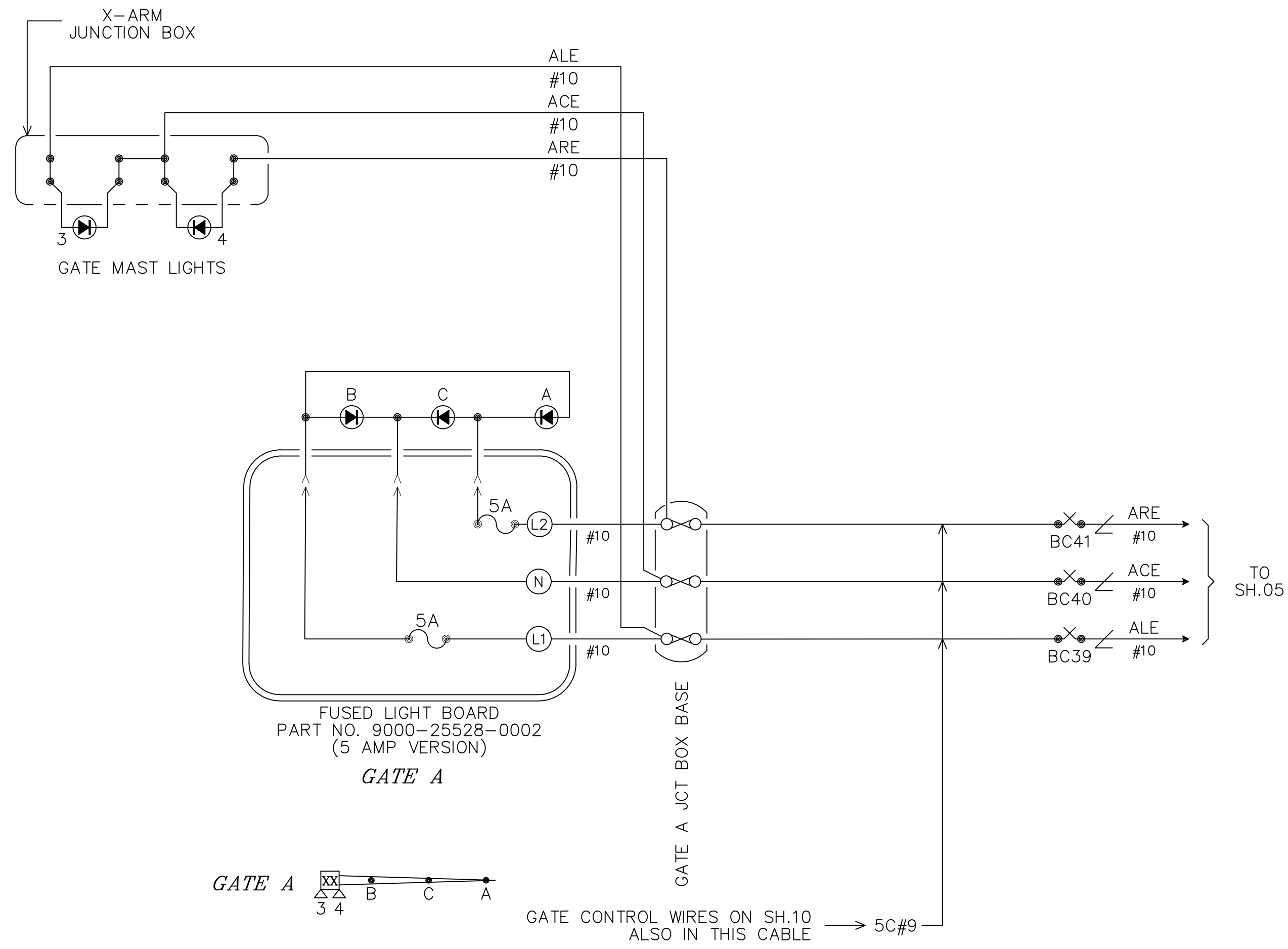


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PORT OF BENTON
 WHITE BLUFF RAIL SR 240 RAIL CROSSING
 XPA CONFIGURATION PLAN

S7 25 OF 33
 CONT/CONS: 214515.00
 M. ID: 310401F
 PHASE: 100% DESIGN
 TOWNSHIP: 10N
 RANGE: 28E
 SECTION: 23
 DAT-HRZ: W63-SF
 VERT: NAD88 CITY OF RICHLAND
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PORT OF BENTON
WHITE BLUFF RAIL SR 240 RAIL CROSSING
GATE A AND GATE B LIGHTING CIRCUITS

TOWNSHIP: 10N RANGE: 28E SECTION: 23
DATE-HRZ: W63-SF VERT: N40D88 CITY OF RICHLAND
PARCEL: # DRAWING SCALE: AS SHOWN

CONT/CONS: 214515.00
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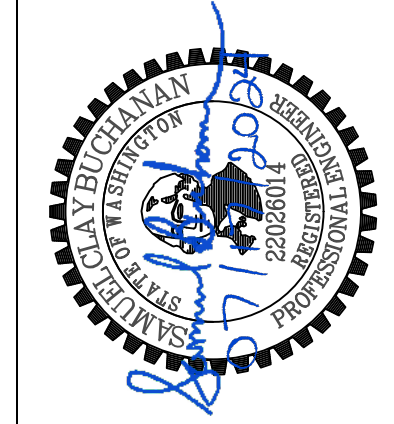
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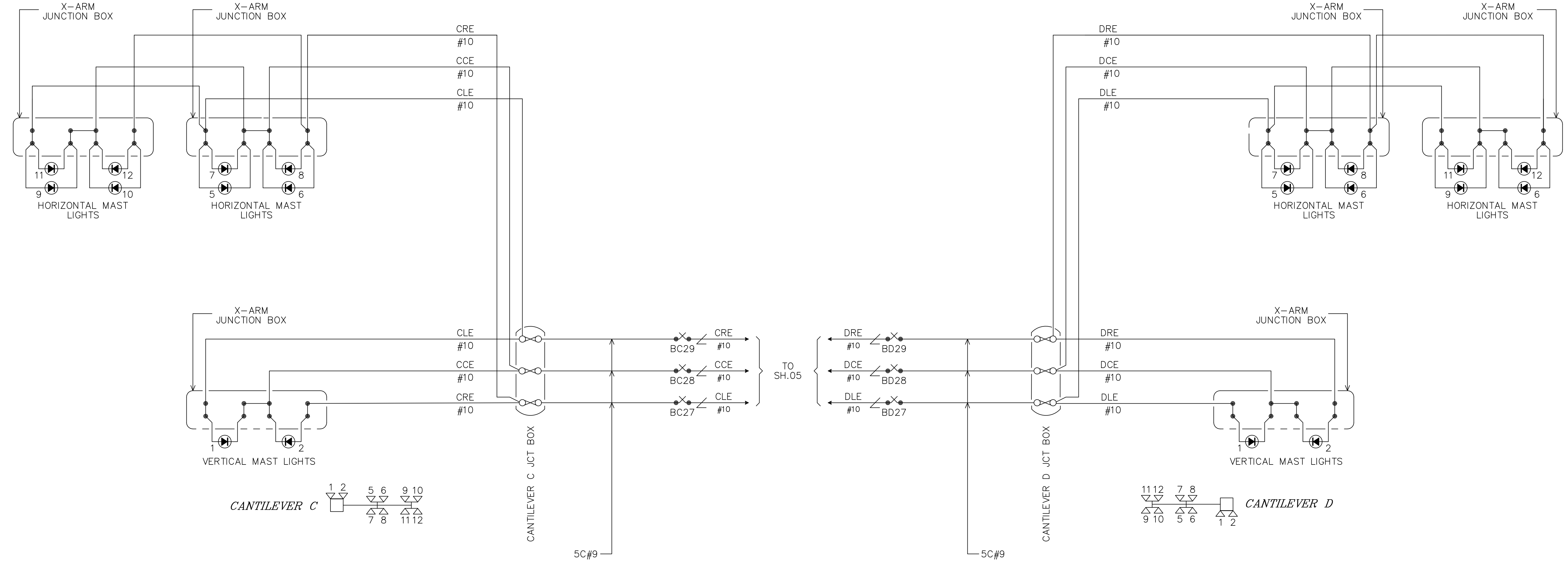
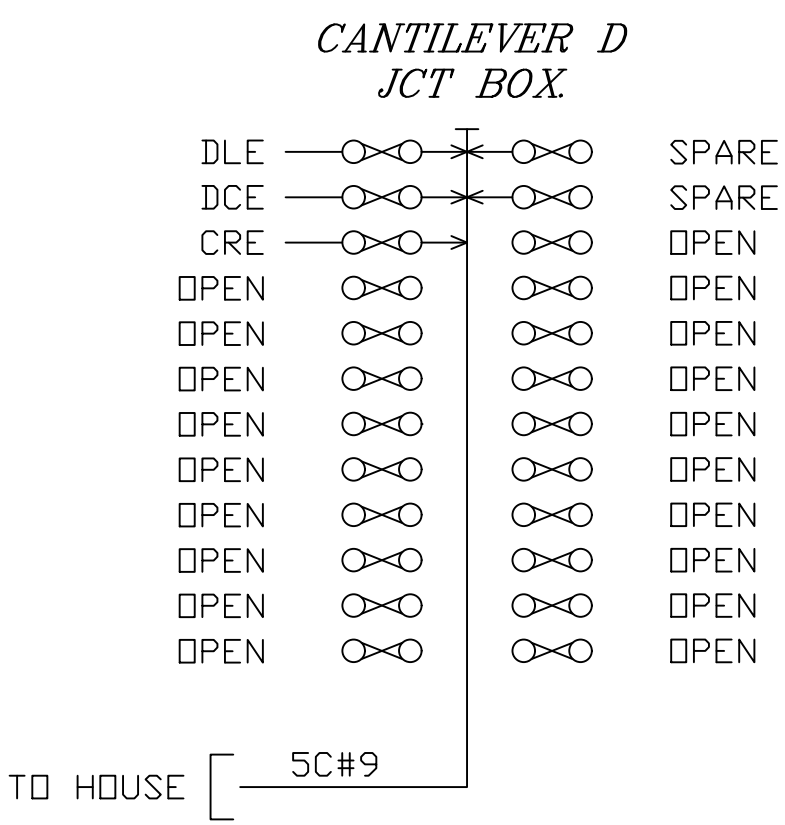
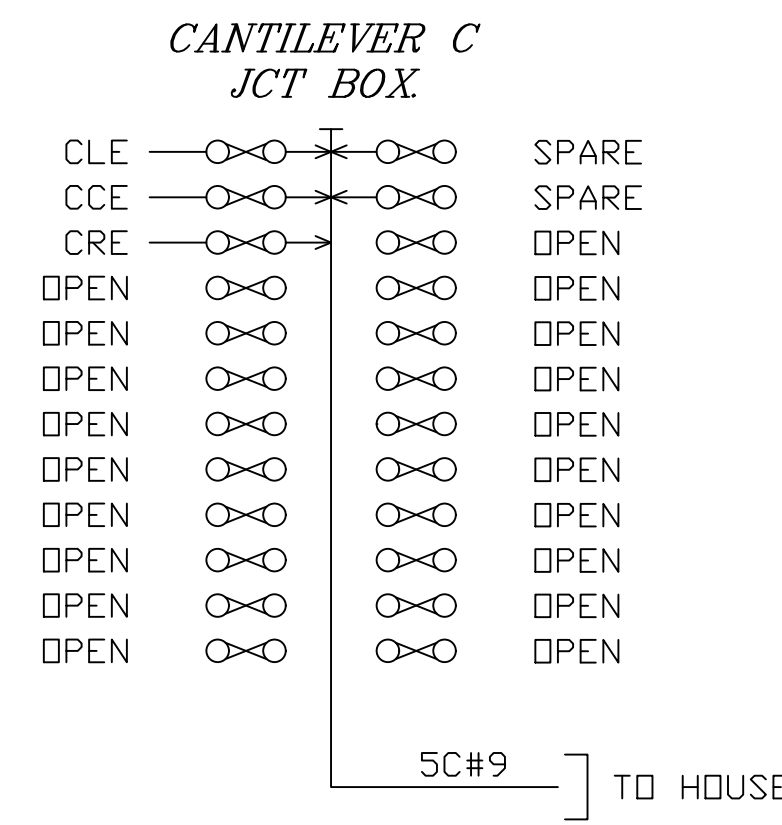
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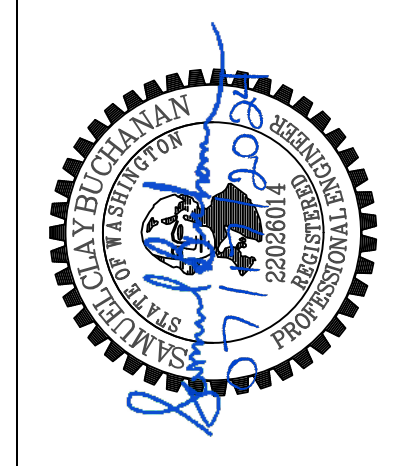
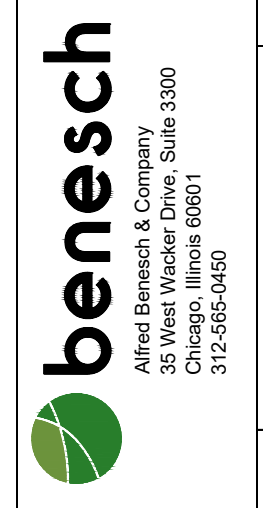
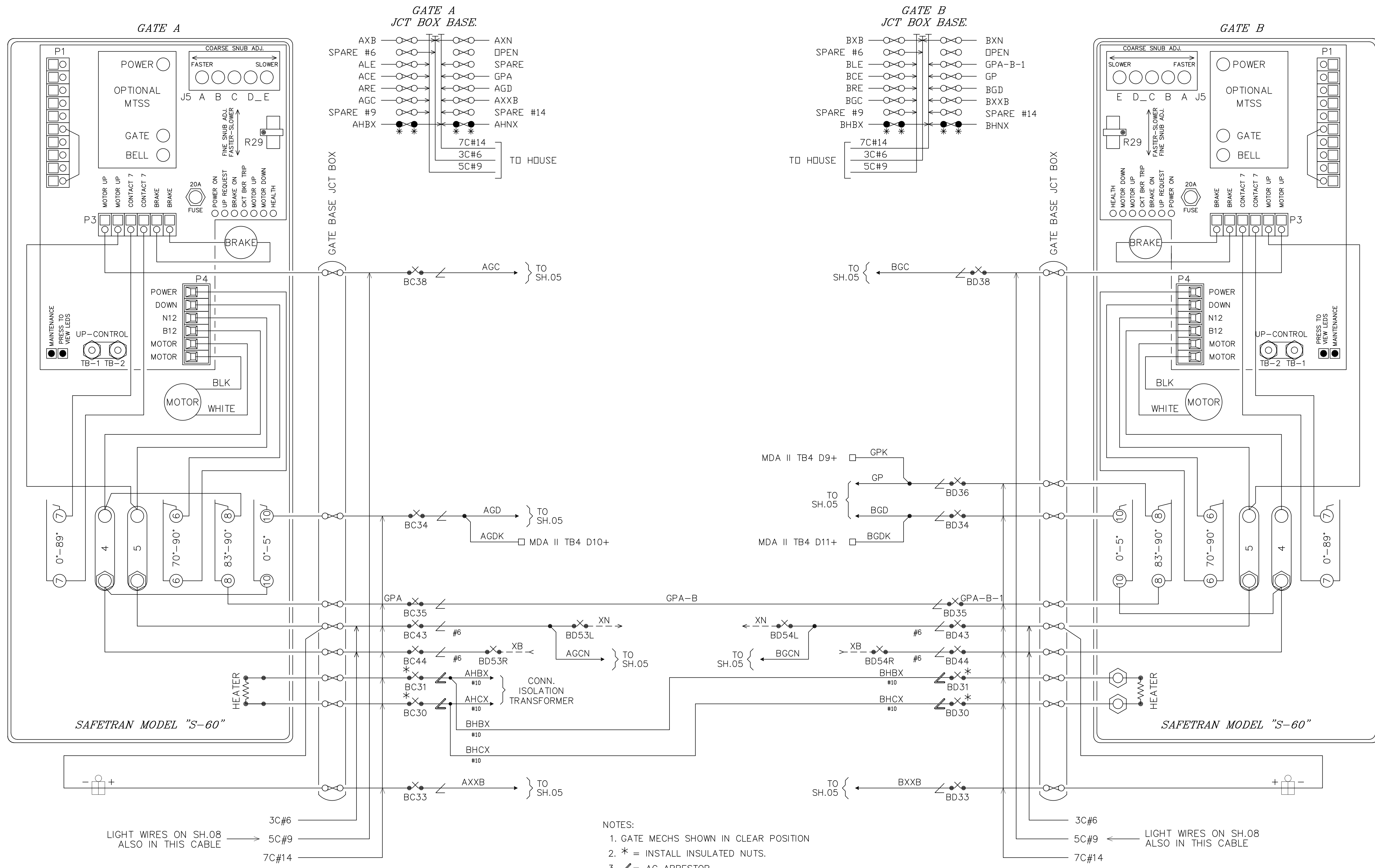


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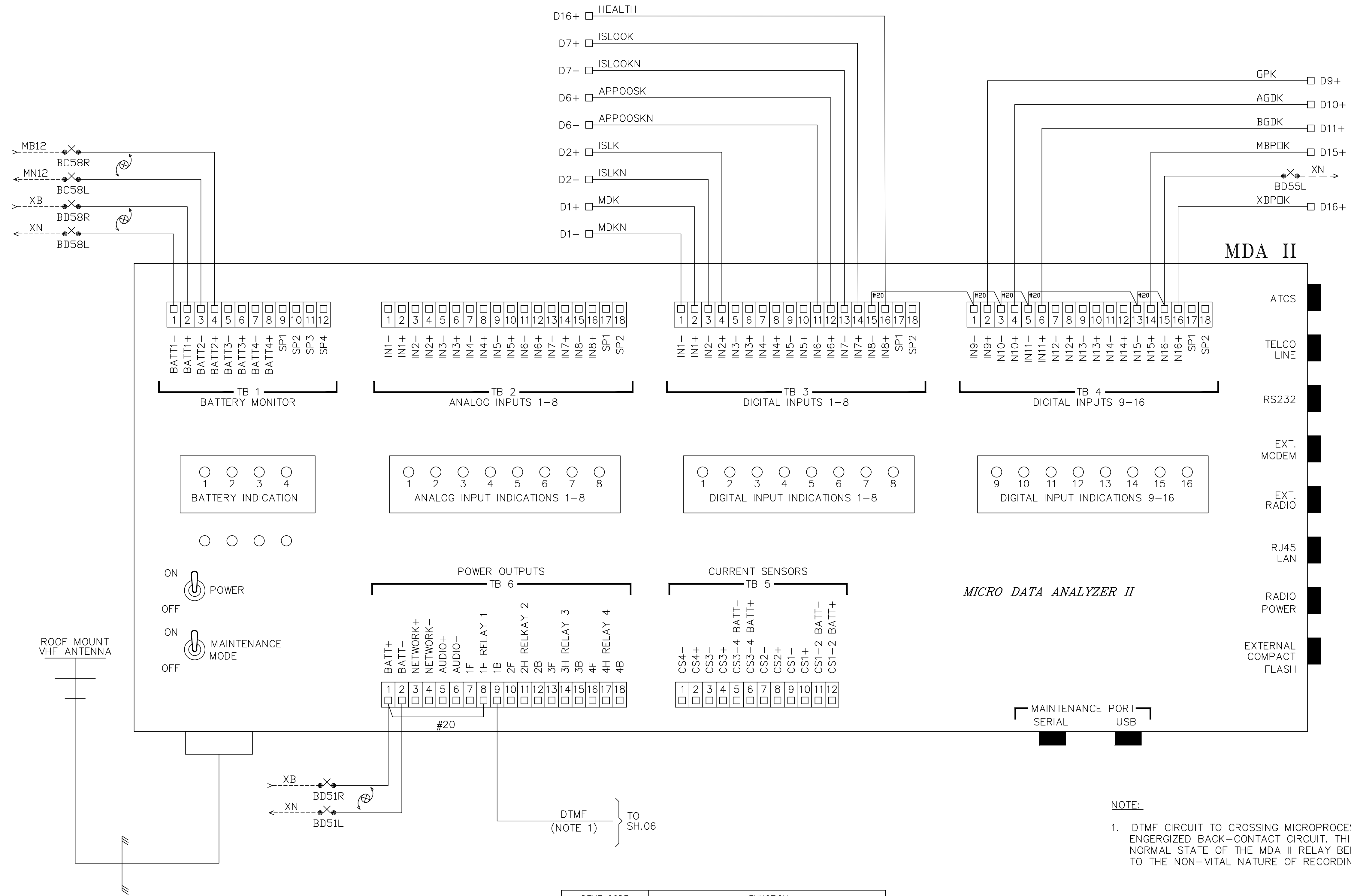


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PORT OF BENTON		
WHITE BLUFF RAIL SR 240 RAIL CROSSING		
GATE A AND GATE B MECHANISM		
TOWNSHIP: 10N	RANGE: 28E	SECTION: 23
DAT-HRZ: W63-SF	VERT: N40D88	CITY OF RICHLAND
PARCEL: #	DRAWING SCALE: AS SHOWN	

#S10	28 OF 33
CONT/CONS: 214515.00	
M. ID: 310401F	
PHASE: 100% DESIGN	

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DTMF CODE	FUNCTION
840*	ENERGIZE RELAY 1 (ACTIVATE CROSSING)
840#	DE-ENERGIZE RELAY 1 (DE-ACTIVATE CROSSING)

NOTE:
 1. DTMF CIRCUIT TO CROSSING MICROPROCESSOR USES A NORMALLY ENERGIZED BACK-CONTACT CIRCUIT. THIS IS DESIGNED FOR THE NORMAL STATE OF THE MDA II RELAY BEING DE-ENERGIZED DUE TO THE NON-VITAL NATURE OF RECORDING DEVICES.

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 MARK: ###/###/###

PORT OF BENTON
 WHITE BLUFF RAIL SR 240 RAIL CROSSING
 DATA RECORDER CIRCUITS

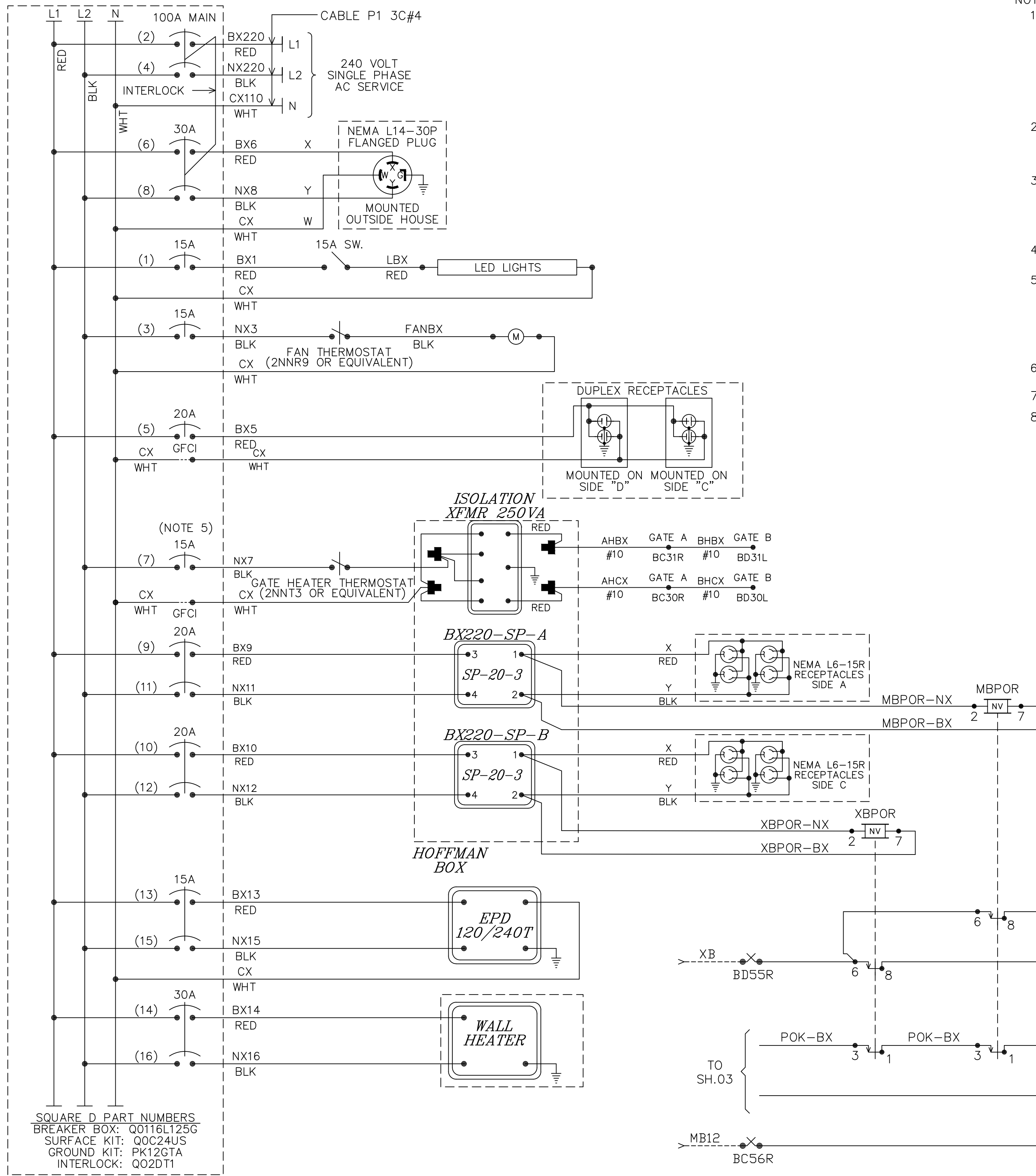
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 RICHLAND, WA, 99354

CONT/CONS: 214515.00
 M. ID: 310401F
 PHASE: 100% DESIGN

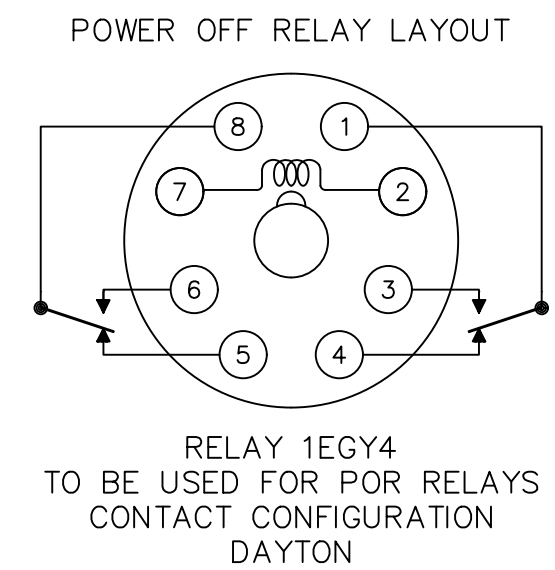
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 RANGE: 28E
 SECTION: 23
 DAT-HRZ: W63-SF
 VERT: NAVD88 CITY OF RICHLAND
 PARCEL: #
 DRAWING SCALE: AS SHOWN

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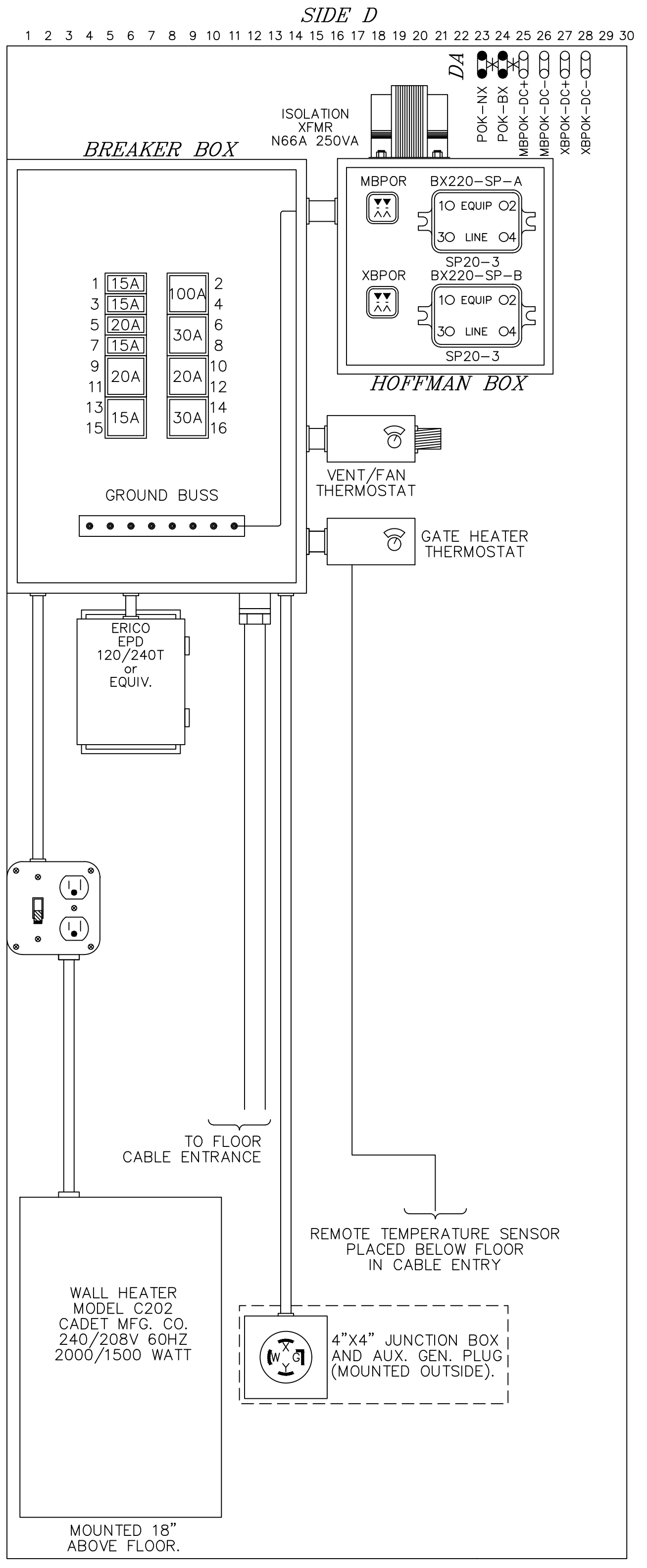
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- NOTES:
- USE THE FOLLOWING COLOR CODE:
GRN - GREEN - SAFETY EQUIPMENT GROUND
WHT - WHITE - CX110 (NEUTRAL)
BLK - BLACK - NX220 (L2)
RED - RED - BX220 (L1)
EXCEPTIONS TO THE ABOVE COLOR CODE ARE THE PRE-WIRED, SEALED ARRESTOR UNITS MOUNTED ON THE BREAKER BOX WHICH HAVE TWO BLACK AND ONE WHITE WIRE EACH.
 - MINIMUM WIRE SIZE
10 AMP - NO. 14 AWG THHN OR THWN SOLID
20 AMP - NO. 12 AWG THHN OR THWN SOLID
30 AMP - NO. 10 AWG THHN OR THWN SOLID
 - GROUND FAULT INTERRUPT (GFCI) MUST BE USED ON ALL CIRCUITS SERVING CONVENIENCE OUTLETS AND ANY EQUIPMENT OUTSIDE THE BUNGALOW. RECEPTACLE MOUNTED GFCI MAY BE USED INSTEAD OF BREAKER TYPE.
 - ALL GROUND WIRES RUN TO BREAKER BOX GROUND BUSS
 - GATE HEATER THERMOSTAT TO BE SET FOR CLOSURE AROUND 35 DEGREES FAHRENHEIT. REMOTE TEMPERATURE SENSOR TO BE LOCATED BY CONSTRUCTION CREW BELOW SIGNAL HOUSE FLOOR, IN CABLE ENTRY CONDUIT, BEFORE FINAL SEALING, TO ACCURATELY MEASURE EXTERNAL TEMPERATURE.
 - FAN THERMOSTAT TO BE SET FOR CLOSURE AROUND 70 DEGREES FAHRENHEIT.
 - POK LAMP MOUNTED ON OUTSIDE OF WALL C.
 - * = INSTALL INSULATED NUTS.



LIGHT SWITCH AND 20A DUPLEX RECEPTACLE



- POWER OFF LED INDICATOR WALL C DIRECTIONAL FISH-EYE PN: GEMS LC-BM-2-14
- NOTE:
- WHEN AC IS ON LED IS ON
 - WHEN AS IS OFF LED FLASHES UNTIL BATTERY IS DISCHARGED
 - WHEN AS IS OFF AND BATTERY IS DISCHARGED LED IS OFF.

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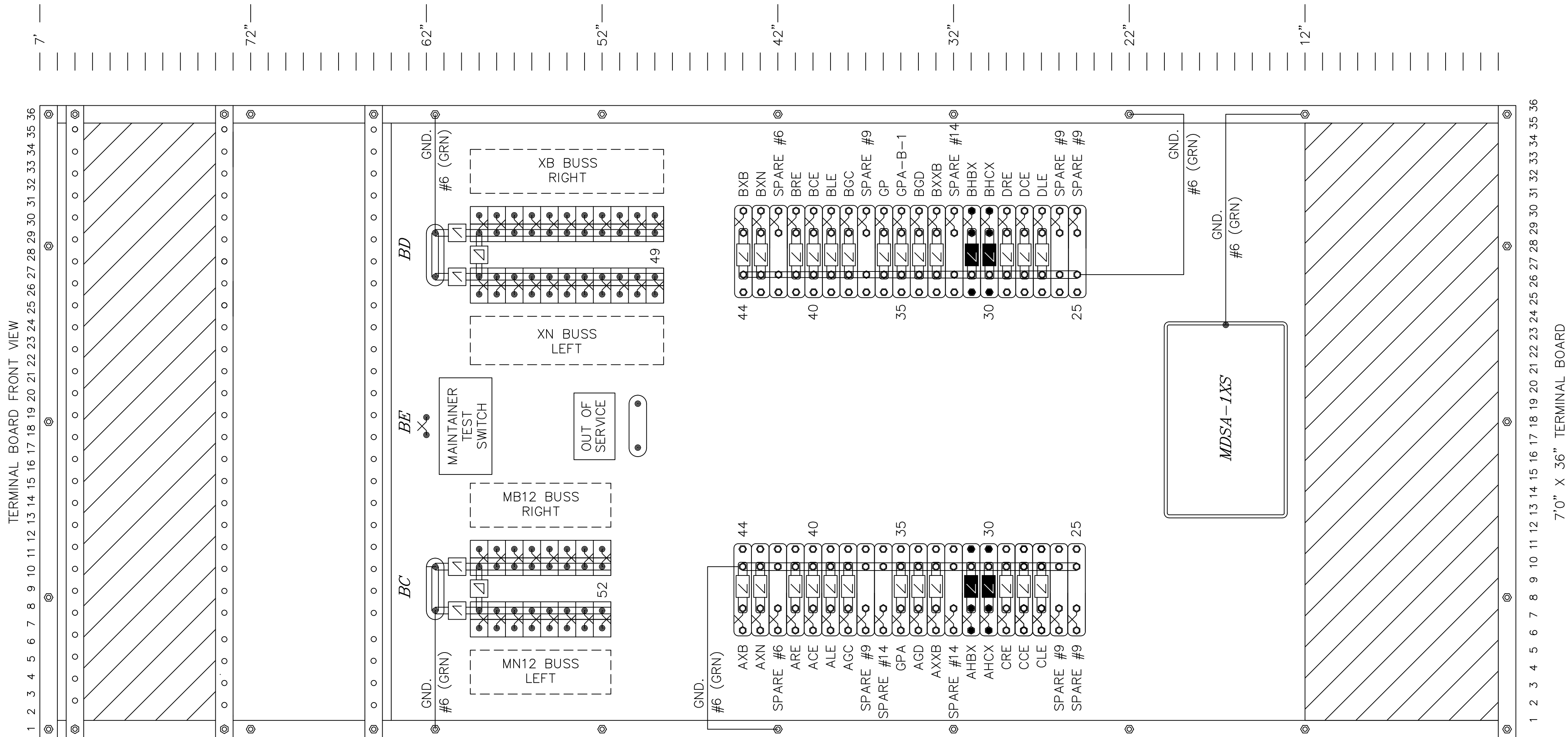
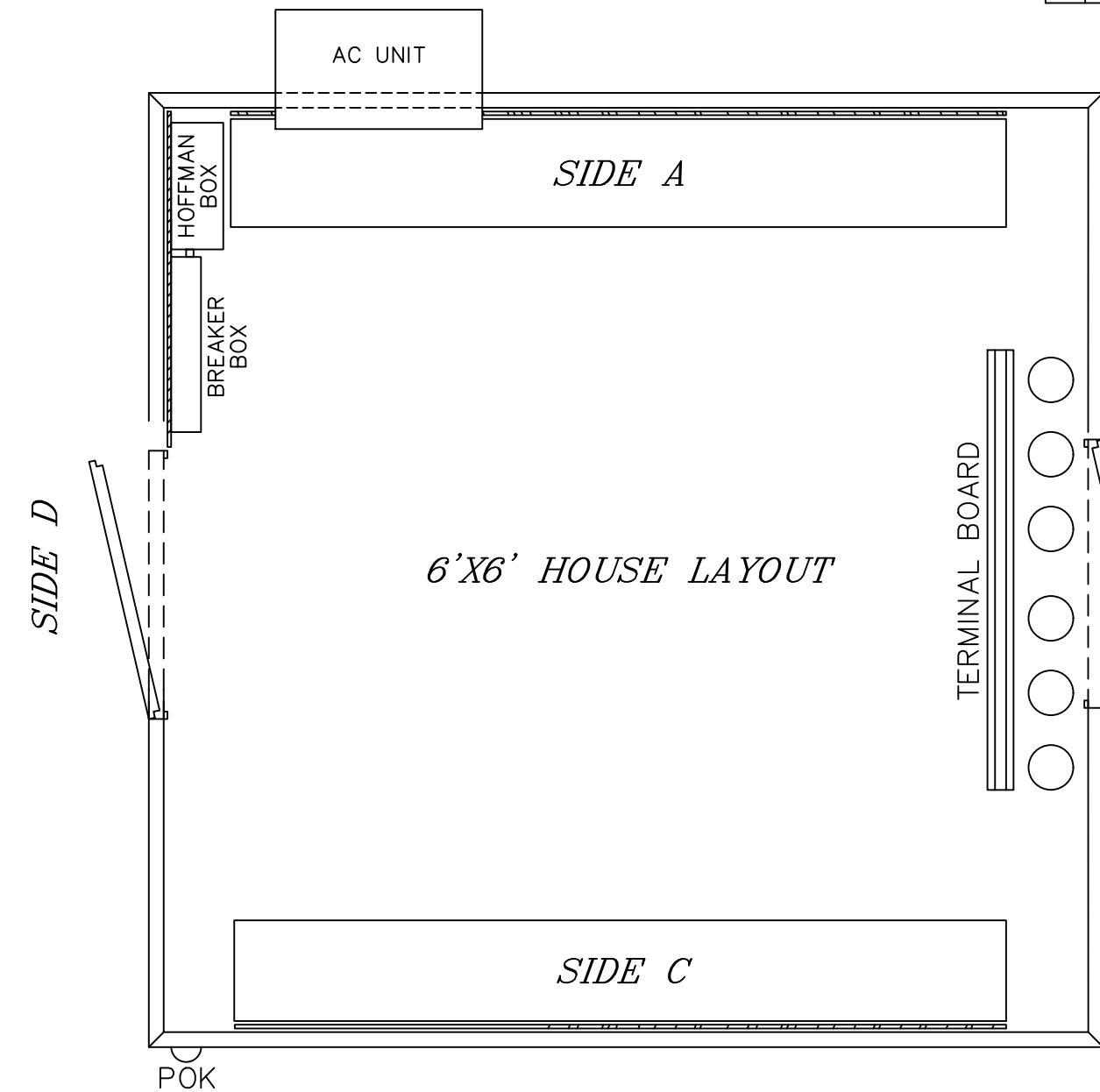
APPROVED:	KPM	7/17/2024
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7/17/2024	SCB	7/17/2024
DIRECTOR ENG. DATE	PROJ. ENGR	DATE
PRINTED BY: sbuchanan	Jul 17, 2024	
PORT ADDRESS: 3250 PORT OF BENTON BLVD		
	RICHLAND, WA, 98354	

PORT OF BENTON
WHITE BLUFF RAIL SR 240 RAIL CROSSING
AC POWER DISTRIBUTION

CON/CONS:	TOWNSHIP:	RANGE:	SECTION:
214515.00	10N	28E	23
M. ID:	DAT-HRZ:	VERT:	
310401F	W63-SF	NAV088	CITY OF RICHLAND
PHASE:	PARCEL:	DRAWING SCALE:	
100% DESIGN	#	AS SHOWN	

#S12

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MN12 BUSS LEFT		MB12 BUSS RIGHT		XN BUSS LEFT		XB BUSS RIGHT	
BC	BD	BC	BD	BC	BD	BC	BD
MN12 BATT	59	MB12 BATT	59	XN BATT	59	XB BATT	59
MDA II TB1 BATT2-	58	MDA II TB1 BATT2+	58	MDA II TB1 BATT1-	58	MDA II TB1 BATT1+	58
DA25B	56	DA25B	56	XP4 SLOT 3 VIO-44R J3 IN1-	57	OOS EB50L	57
	55		55	XIP-20 GBATT N	56	XIP-20 GBATTB	56
MDSA-1XS BATT-	54	MDSA-1XS BATT+	54	MDA II TB4 IN16-	55	XBPOR-6	55
	53		53	BD43L	54	BD44L	54
	52		52	BC43R	53	BC44R	53
				DA28B	52	DA27B	52
				MDA II TB6 BATT-	51	MDA II TB6 BATT+	51
				XIP-20 LBATT N	50	XIP-20 LBATT B	50
				XP4 SLOT 4 IXC-20S+ J5 IN2-	49	MTS BE62L	49

- NOTES:
- NO EQUIPMENT ALLOWED IN SHADED AREAS.
 - INSTALL INSULATED NUTS ON GATE HEATER TERMINALS.
- = DC ARRESTOR
- = AC ARRESTOR

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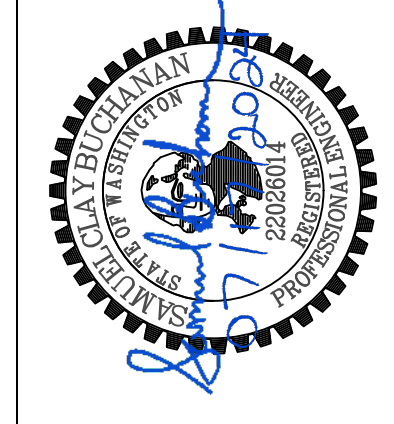
PORT OF BENTON
WHITE BLUFF RAIL SR 240 RAIL CROSSING
36" TERMINAL BOARD LAYOUT

APPROVED: SAMUEL C. BUCHANAN
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DATE: 7/17/2024

DIRECTOR ENG. DATE: 7/17/2024
PROJ. ENGR DATE: 7/17/2024

PRINTED BY: sbuchanan
DATE: Jul 17, 2024

PORT ADDRESS: 3250 PORT OF BENTON BLVD
RICHLAND, WA, 99354

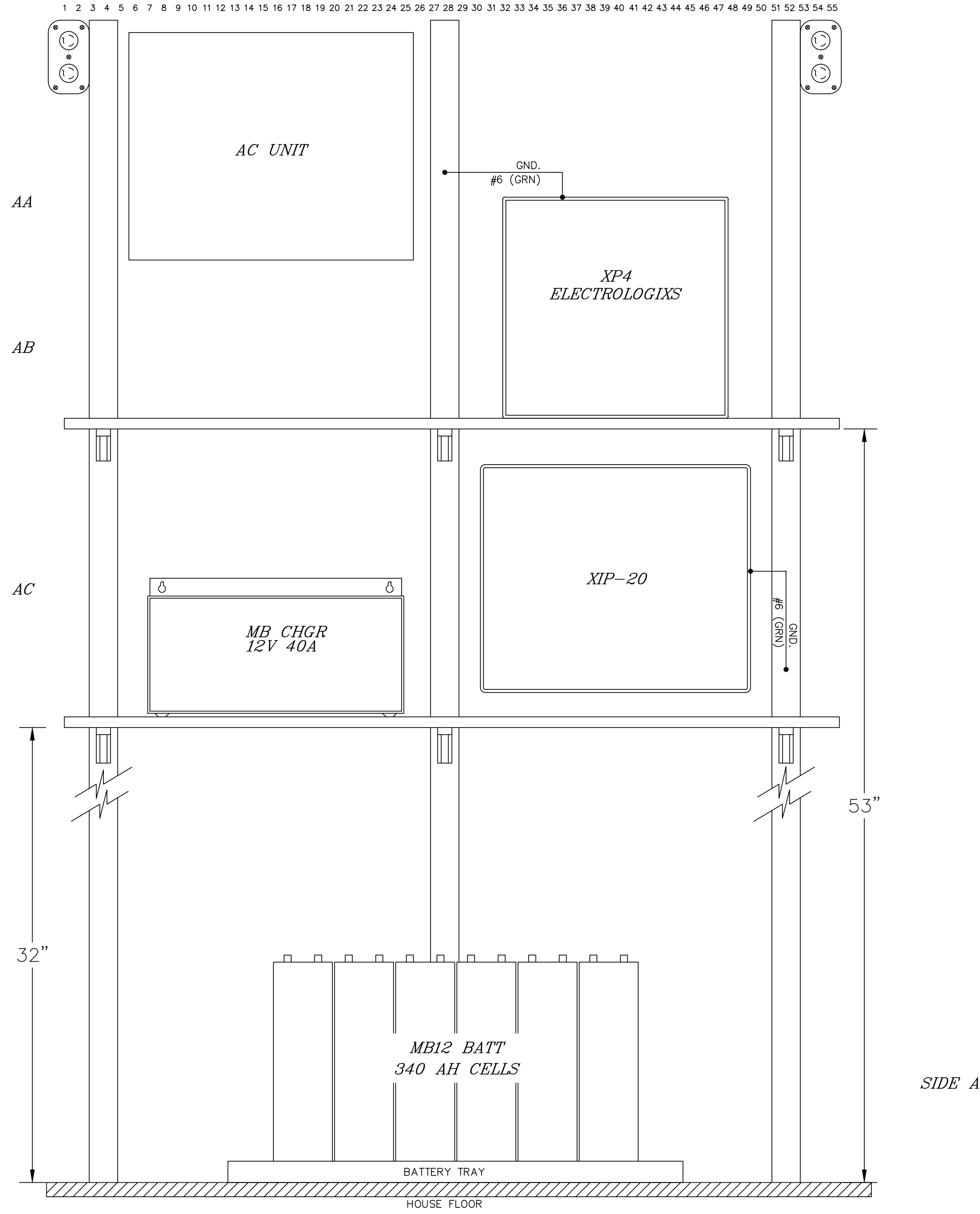


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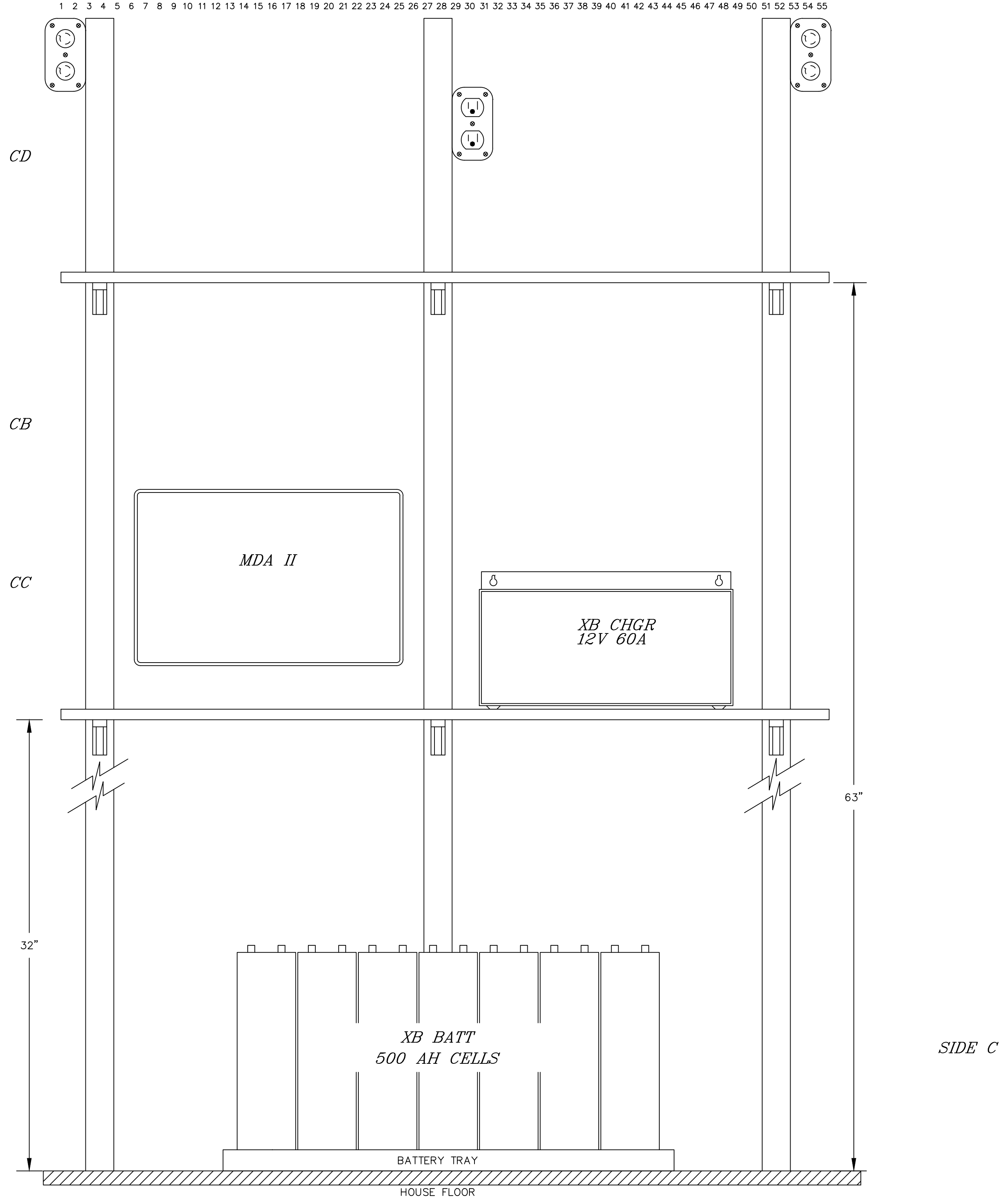
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M. ID:	310401F	DAT-HRZ:	W63-SF	VERT:	NAVD88	CITY OF RICHLAND	
PHASE:	100% DESIGN	PARCEL:	#	DRAWING SCALE:	AS SHOWN		
MARK:	REVISION:	BY:	APPR:	DATE:			
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## S14 32 OF 33	PORT OF BENTON WHITE BLUFF RAIL SR 240 RAIL CROSSING WALL "A" LAYOUT		APPROVED: SAMUEL C. BUCHANAN 7/17/2024 DIRECTOR ENG. DATE	KPM 7/17/2024 CHECKED BY DATE			
	CONT/CONS: 214515.00 M. ID: 310401F PHASE: 100% DESIGN	TOWNSHIP: 10N RANGE: 28E SECTION: 23 DAT-HRZ: W63-SF VERT: NAVD88 CITY OF RICHLAND PARCEL: # DRAWING SCALE: AS SHOWN	PRINTED BY: sbuchanan JUL 17, 2024 PROJ. ENGR DATE PORT ADDRESS: 3250 PORT OF BENTON BLVD RICHLAND, WA, 99354	SCB 7/17/2024 PROJ. ENGR DATE	MARK: # REVISION: # BY: # APPR: # DATE: #	DATE: # APPR: # BY: # REVISION: #	DATE: # APPR: # BY: # REVISION: #

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S15
33 OF 33

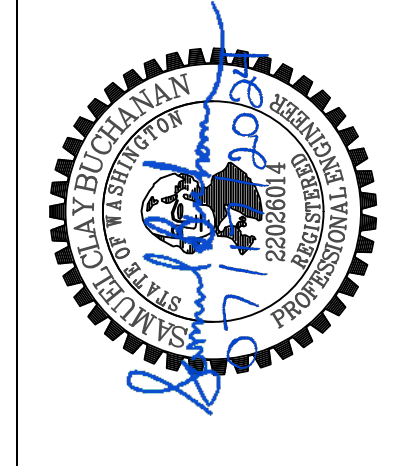
PORT OF BENTON
WHITE BLUFF RAIL SR 240 RAIL CROSSING
WALL "C" LAYOUT

APPROVED: SAMUEL C. BUCHANAN
7/17/2024
DIRECTOR ENG. DATE

KPM 7/17/2024
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CONT/CONS: 214515.00	TOWNSHIP: 10N	RANGE: 28E	SECTION: 23
M. ID: 310401F	DAT-HRZ: W63-SF	VERT: NAVD88 CITY OF RICHLAND	
PHASE: 100% DESIGN	PARCEL: ##	DRAWING SCALE: AS SHOWN	
MARK:	REVISION: ###	BY: ###	DATE: ###