

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

Clark County Public Works,	
	PE
	DI
Petitioner,	RA

vs. Portland Vancouver Junction Railroad

Respondent

DOCKET NO. TR-

PETITION TO MODIFY WARNING DEVICES AT A HIGHWAY-RAILROAD GRADE CROSSING

USDOT: 852-436D

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

Section 1 – Petitioner's Information

Clark County – Public Works Department Petitioner	
Joben a Wastanit	
Signature	
1300 Franklin Street	
Street Address	
Vancouver, WA 98666	
City, State and Zip Code	
PO Box 9810 – Vancouver, WA 98666-9810	
Mailing Address, if different than the street address	
Robin Washington	
Contact Person Name & Signature	
564.397.4572 Robin.Washington@clark.wa.gov	
Contact Phone Number and Email Address	

Section	2-R	espondent	's	Informat	tion
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Portland Vancouver Junction Railroad	
Respondent	
1300 Franklin Street	
Street Address	
Vancouver, WA 98666	
City, State and Zip Code	
PO Box 9810, Vancouver, WA	
Mailing Address, if different than the street address	
Greg Shafer	
Contact Person Name	
564.397.4064 - Greg.Shafer@clark.wa.gov	
Contact Phone Number and Email Address	

Section 3 – Crossing Location

1. Existing highway/roadway NE 119 th Street	
2. Existing railroad Portland Vancouver Junction Rai	lroad
3. USDOT Crossing No852-436D	
4. GPS location Latitude 45.707811; Longitude -122.	570418
5. Railroad mile post (nearest tenth) 7.60	
6. City Vancouver	County Clark County Washington

Section 4 – Vehicle Traffic

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1. Name of highway NE 119 th Street
2. Road authority Clark County
3. Average annual daily traffic (AADT) 12,809 (2017)
4. Number of lanes
5. Roadway speed 45 MPH Posted
6. Is the crossing part of an established truck route? Yes X No
7. If so, trucks are what percent of total daily traffic? <u>10%</u>
8. Is the crossing part of an established school bus route? Yes X No
9. If so, how many school buses travel over the crossing each day? 70 buses
10. Describe any changes to the information in 1 through 7, above, expected within ten years:
This roadway section is a Clark County Public Works, Capital project. Construction is starting this summer (2018).
This roadway will be widening from two lanes to four travel-lanes, center turn-lane, sidewalks and bike-lanes.

Section 5 – Current Crossing Information

1. Railroad company Portland Vancouver Junction Railroad
2. Type of railroad at crossing X Common Carrier €Logging €Industrial
€Passenger €Excursion
3. Type of tracks at crossing X Main Line € Siding or Spur
4. Number of tracks at crossing
5. Average daily train traffic, freight twice weekly
Authorized freight train speed 10mph Operated freight train speed 10mph
6. Average daily train traffic, passenger0
Authorized passenger train speedN/A Operated passenger train speedN/A
7. Describe any changes to the information in 1 through 4, above, expected within ten years: None
8. What is the available sight distance from the stop bar (or 25 feet from the tracks if no stop bar) on both approaches to the crossing?
The roadway is being widened. Sightlines for the widened crossing are not known
9. If the sight distance is less than 400 feet, describe the structures, roadway or track curvature, visual obstacles or other characteristics that limit sight distance.
Vegetation, dips in roadway and rail line curve limit sightlines

Section 6 – Current Warning Devices

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

Style-C track circuits, flasher signals with gates arms, bells and crossbucks.

Section 7 – Description of Proposed Changes

Describe in detail the number and type of proposed automatic signals (vehicle and pedestrian), gates or other warning devices, including proposed circuitry. If sidewalks are being installed, please provide information on who will maintain them.

Two each Flasher/Gate/Cantilever combo with flashing lights and bells, the gate arms 35' – 0", Cantilevers mast 30' – 0" (Sheet RR15 (136 of 167))

New crossing surface: width will be 121'-10.5". The crossing will be extended (5) panels in each direction. Sheet RRCD (120 of 167)

Center Island Medians: Two medians will be installed, 95' long (west side) and 150' long (east side) by 10' wide and 6' high with RPMS. See TYP 2 (74 of 232), SSD13 (78 of 167) and M1 (99 of 232)

Guardrail will be installed to protect the signals.

Bungalow: The existing rail bungalow is being relocated and retrofitted. Connections to the County ITS system are being provided. Sheets RRS1 to RRS15 (122 of 167 to 136 of 167) for detailed information on the wiring.

Pedestrian walkway/sidewalks – Four Flashers only (no gates) and detectable warning surface will be installed. No stop bars for pedestrians nor cyclist. See RR1 (96 of 232, 97 of 232). The sidewalks will be maintained by Clark County.

Pavement markings and warning signs, Bicycles use caution, crossing marking, Sheet SSIN5 (92 of 167) There is not a "slow speed sign" listed.

Section 8 – Illustration of Proposed Warning Devices

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

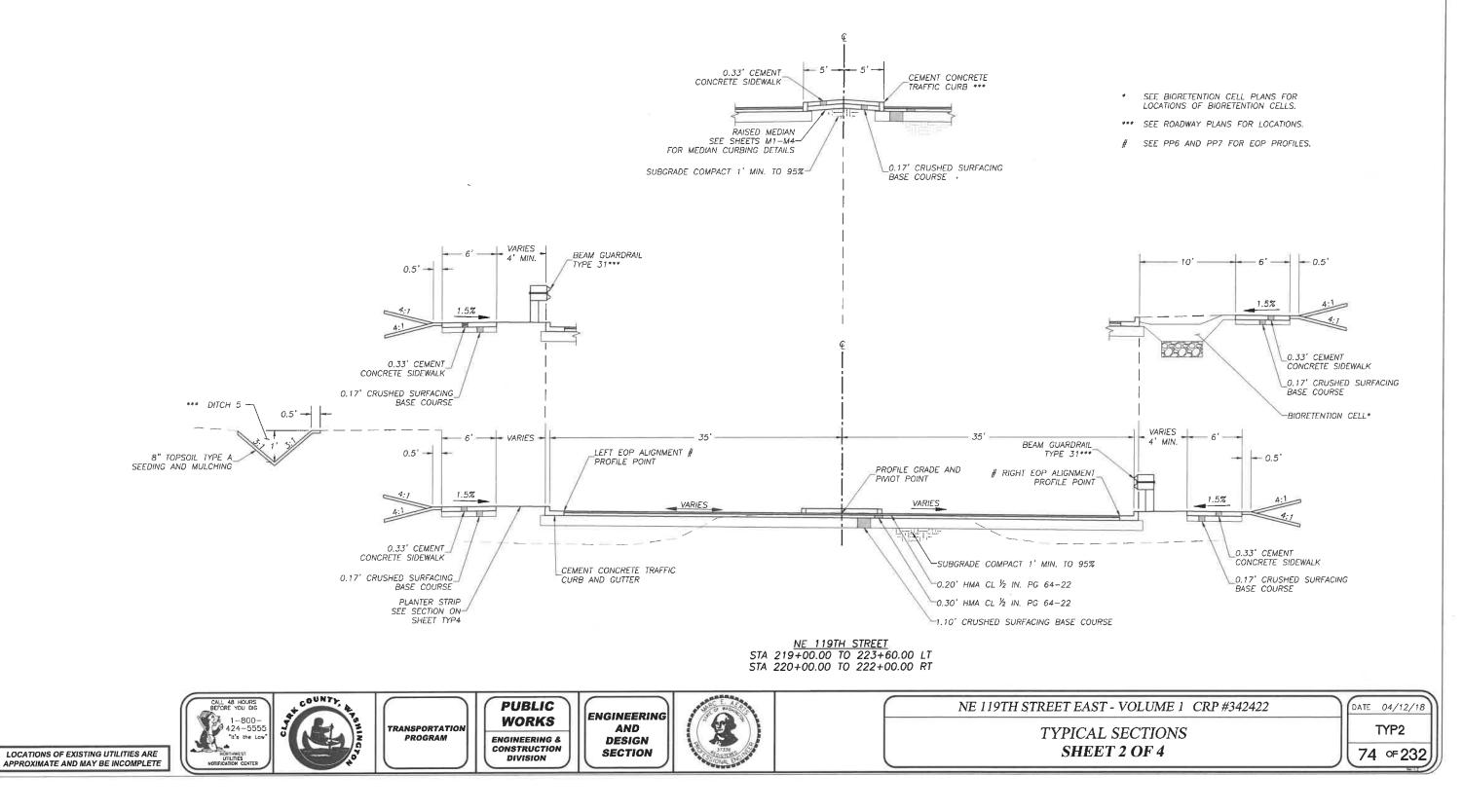
See Attached "Railroad Signaling" Sheet 1 of 15 also "HDR CCCP Diagnostic Report".

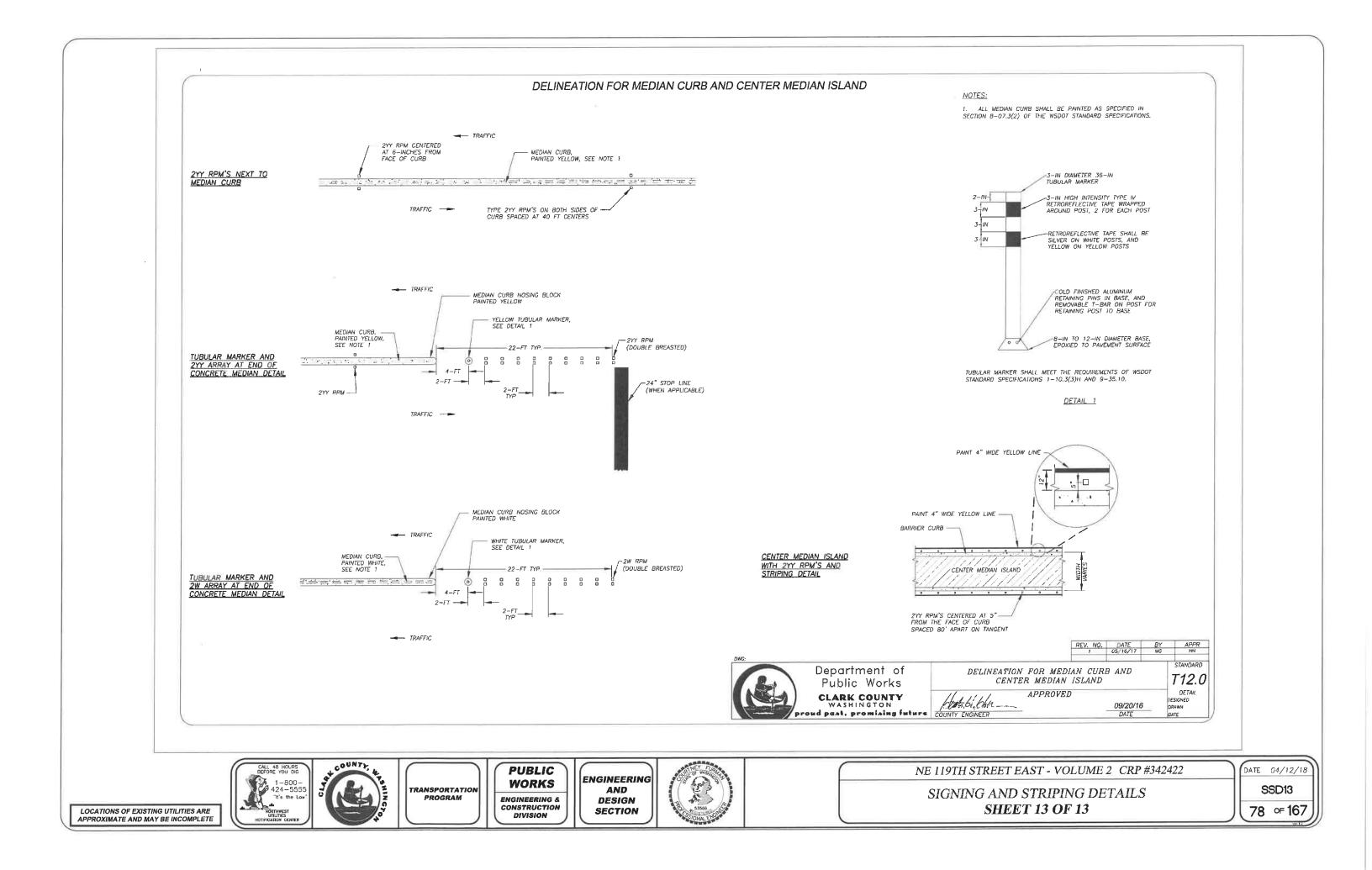
Section 9 – Waiver of Hearing by Respondent

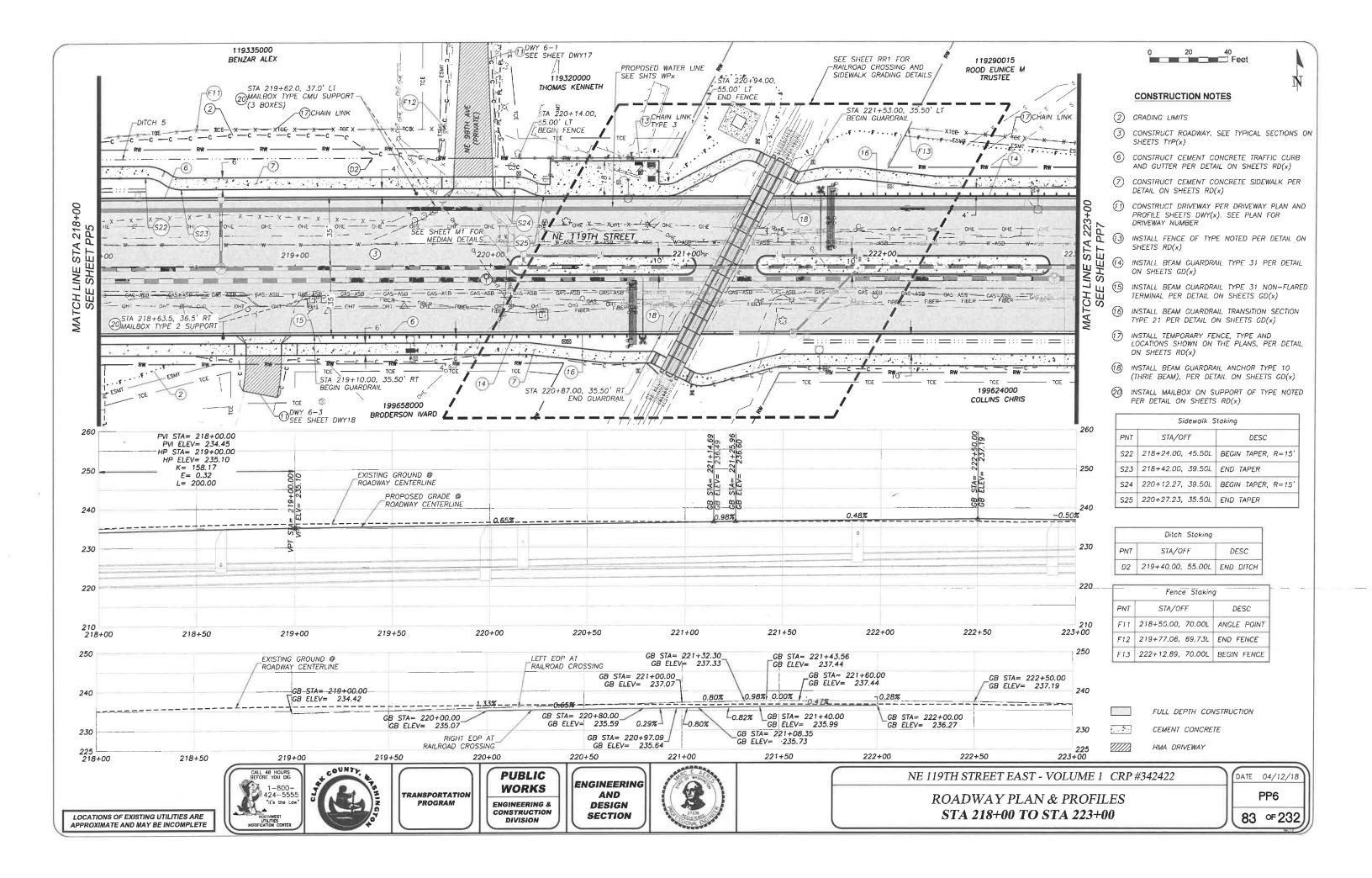
Waiver of Hearing The undersigned represents the Respondent in the petition to modify highway-rail grade crossing warning signals at the following crossing. USDOT Crossing No. 852-436D We have investigated the conditions at the crossing. We are satisfied the conditions are the same as described by the Petitioner in this docket. We agree the warning signals should be modified and consent to a decision by the commission without a hearing. Dated at Vancouver , Washington, on the _____ day of July____, 2018. Gregory A. Shater Printed name of Respondent 1 for L Jerry Barnott Signature of Respondent's Representative Development Engineering Manager for itle RR Coordinator Title (360) 397-611 8 x - 40000 greg. States elactions Phone number and e-mail address 1300 Franklin St. Vancouver, WH 92666 Mailing address

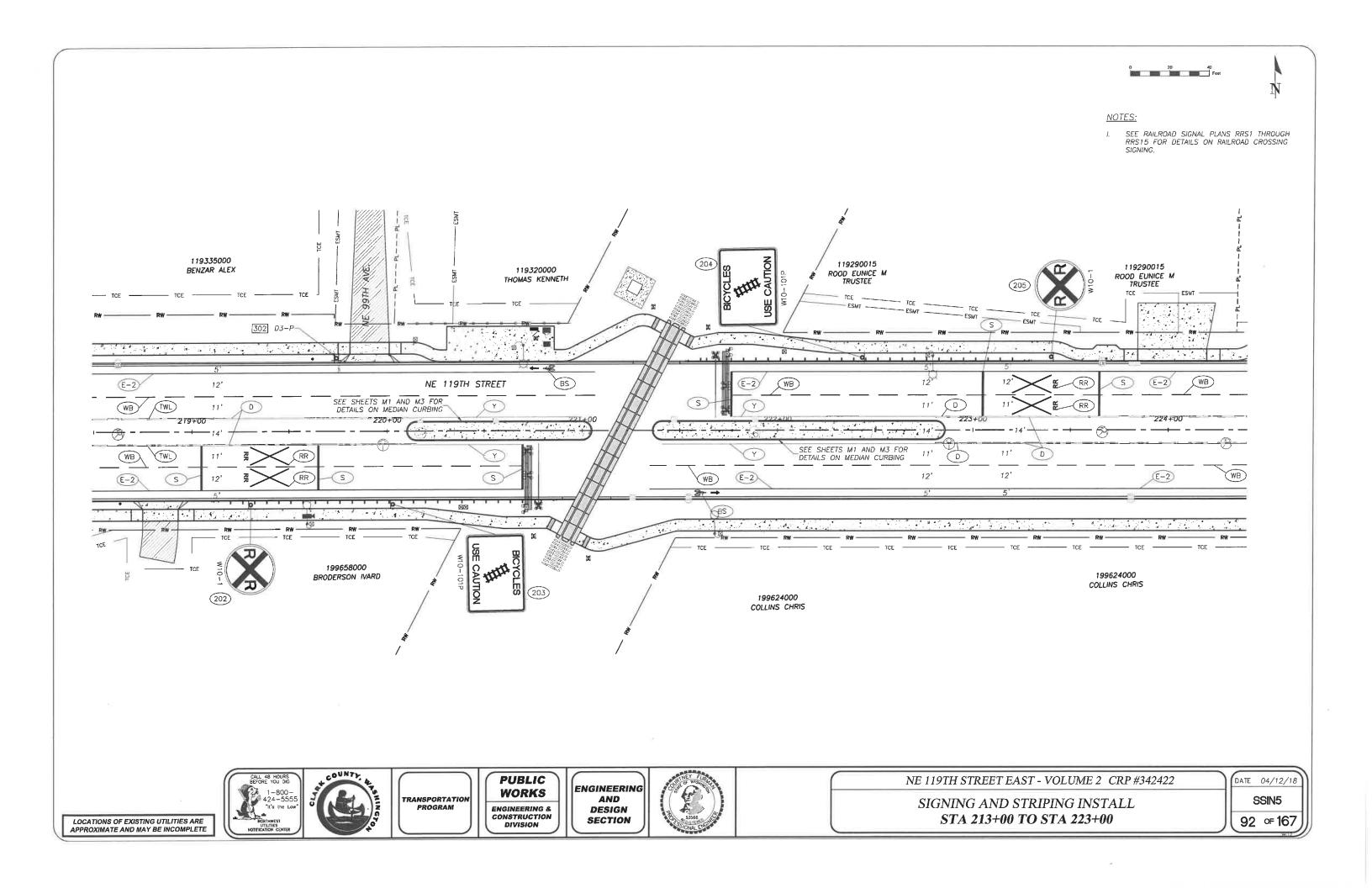
GENERAL NOTES:

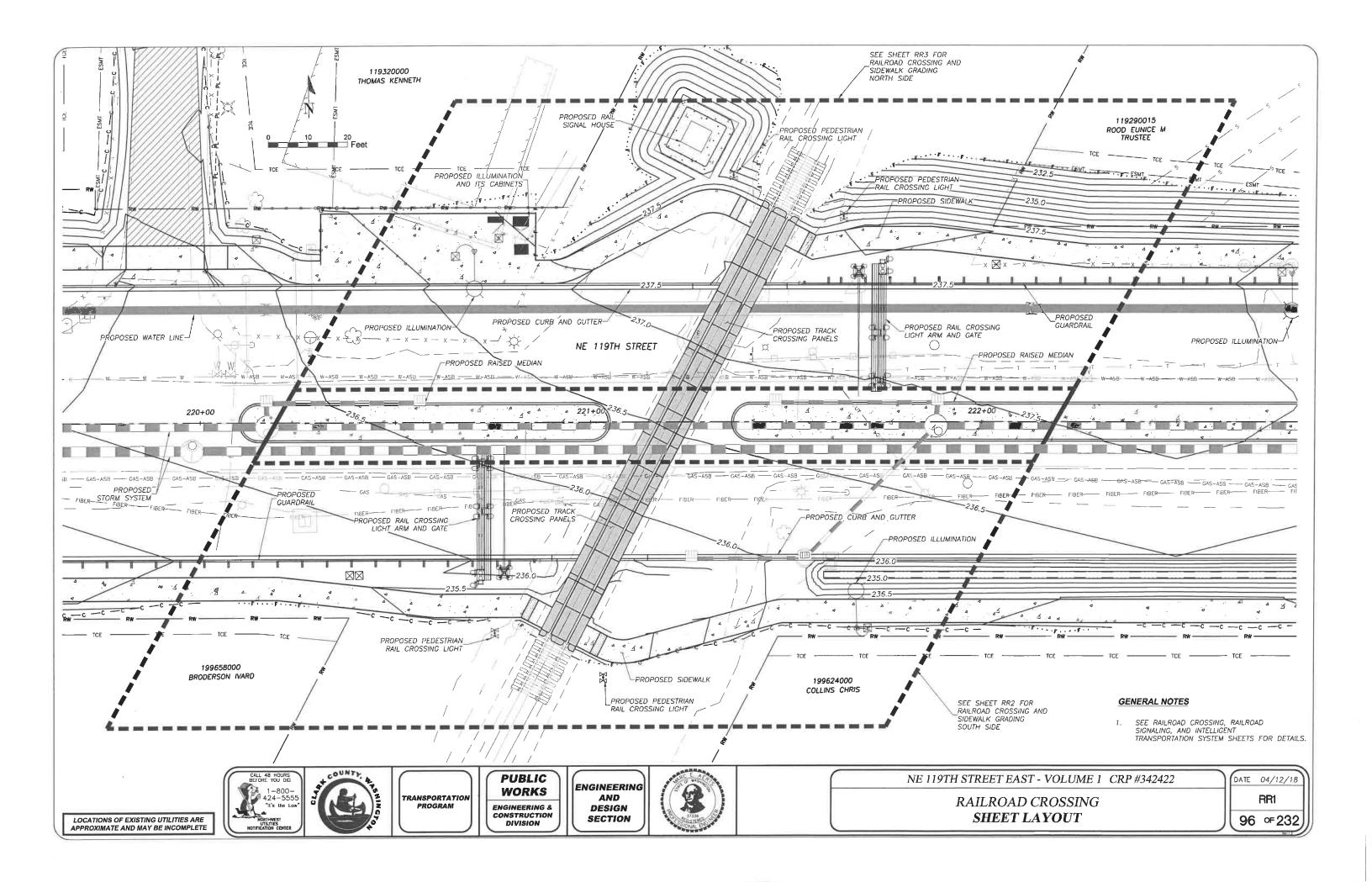
- 1. ALL SURFACING AND PAVING DEPTHS SHOWN ARE COMPACTED DEPTHS. SEE SPECIFICATIONS FOR MAXIMUM LIFT DEPTHS.
- 2. SEE ROADWAY PLAN AND PROFILE SHEETS FOR VARIABLE WIDTHS.
- 3. SEE SHEET TYP4 FOR CSBC EXTENSION AND TYPICAL SLOPE GRADING DETAILS.

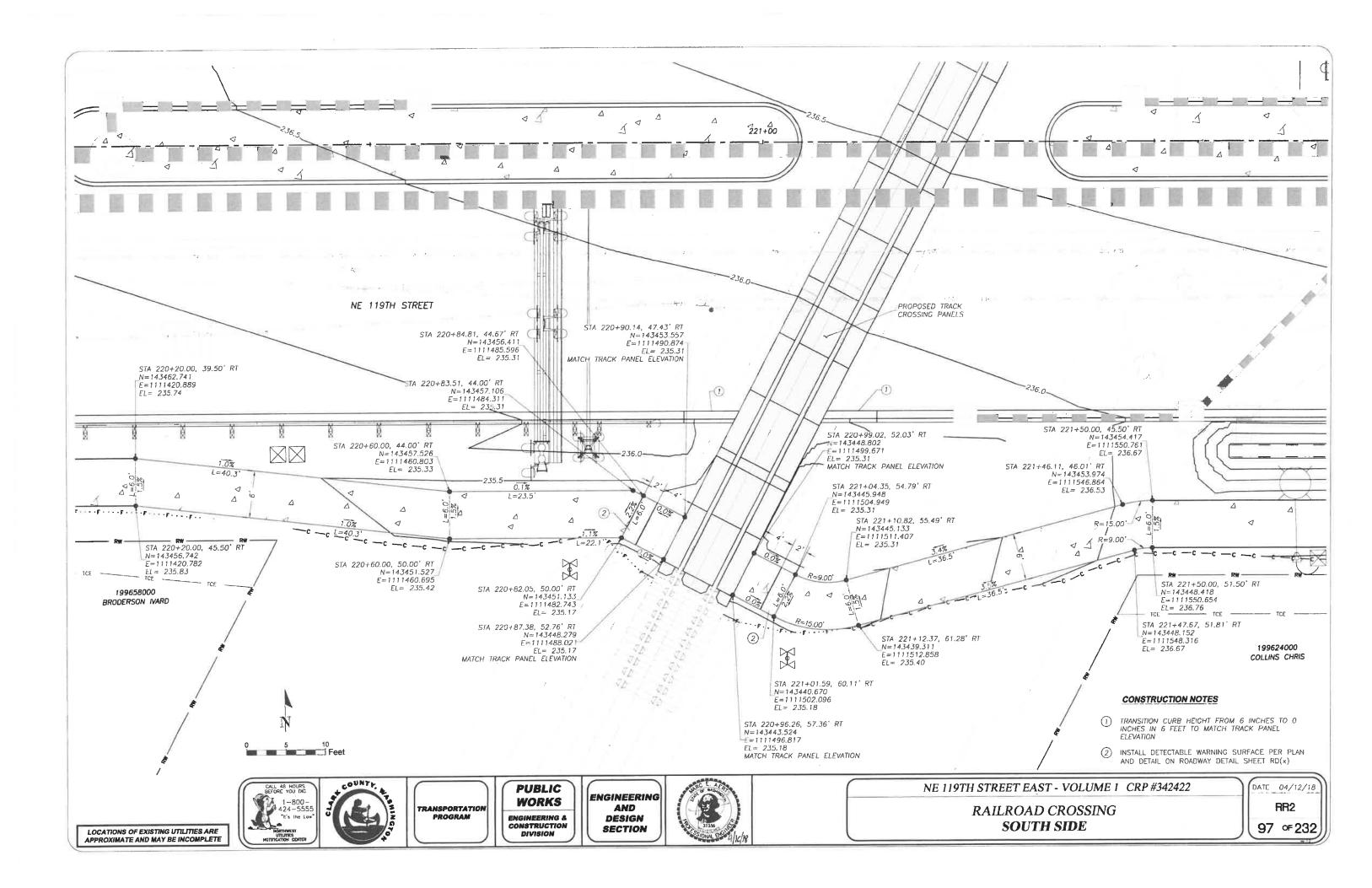


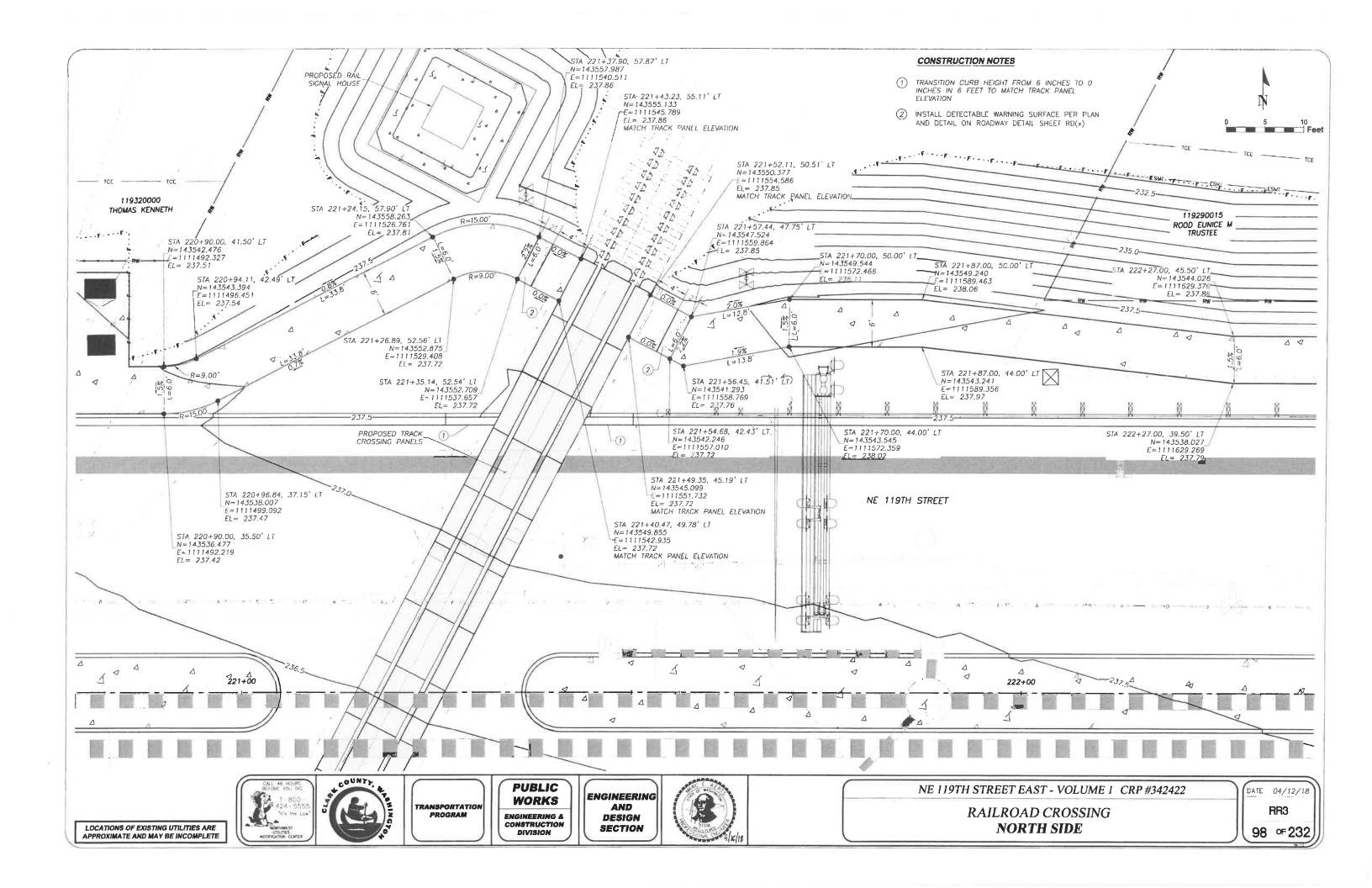


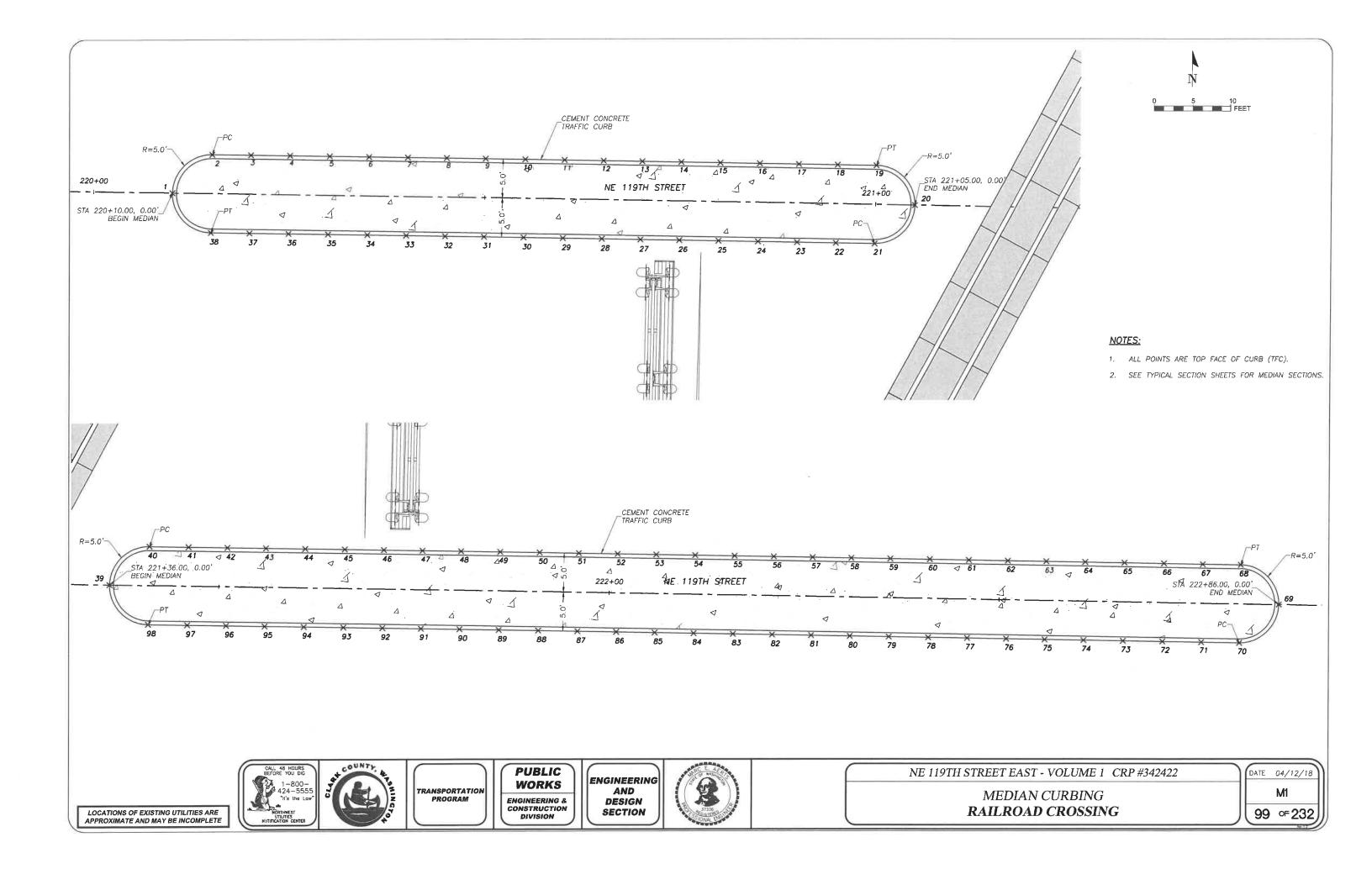


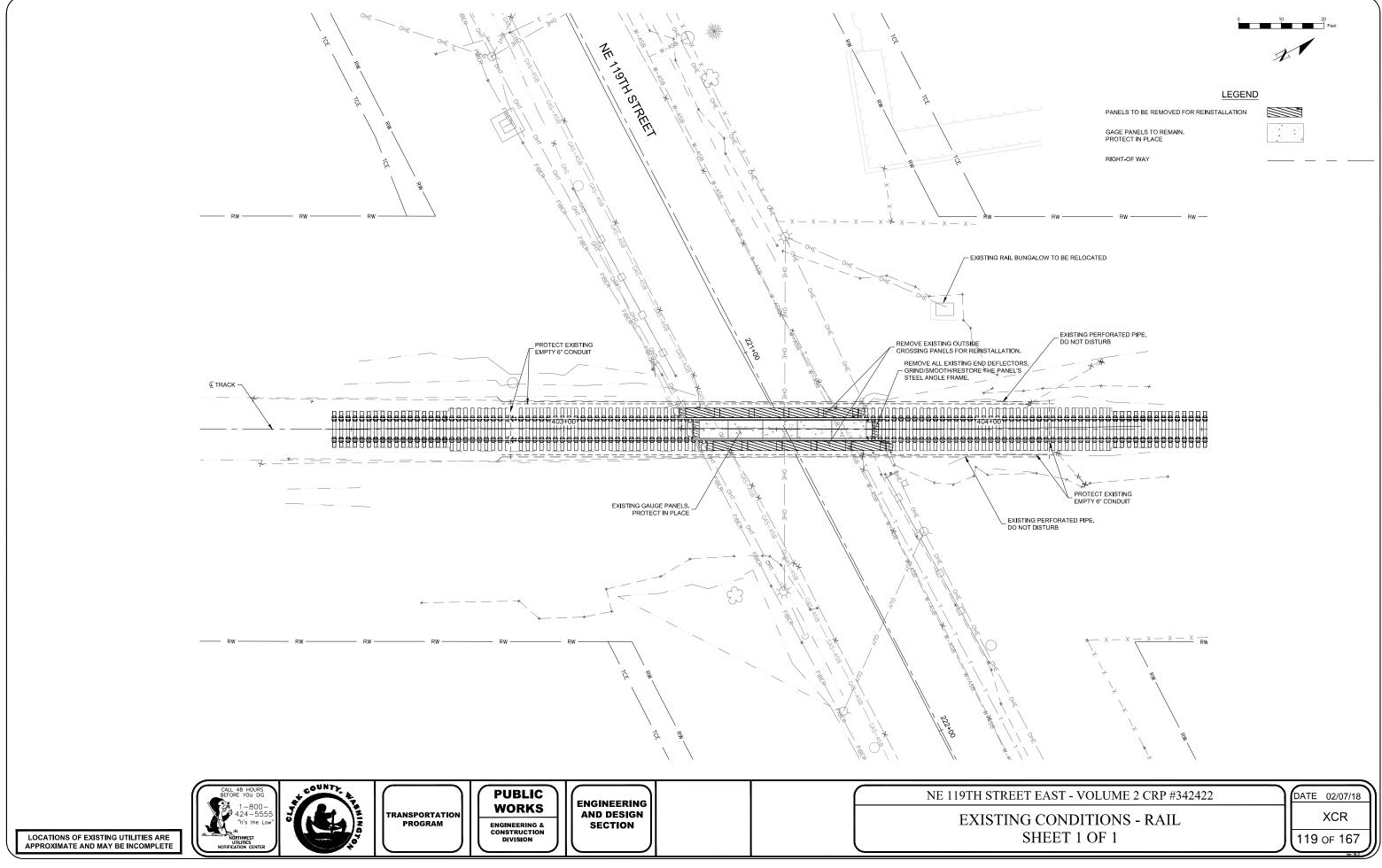


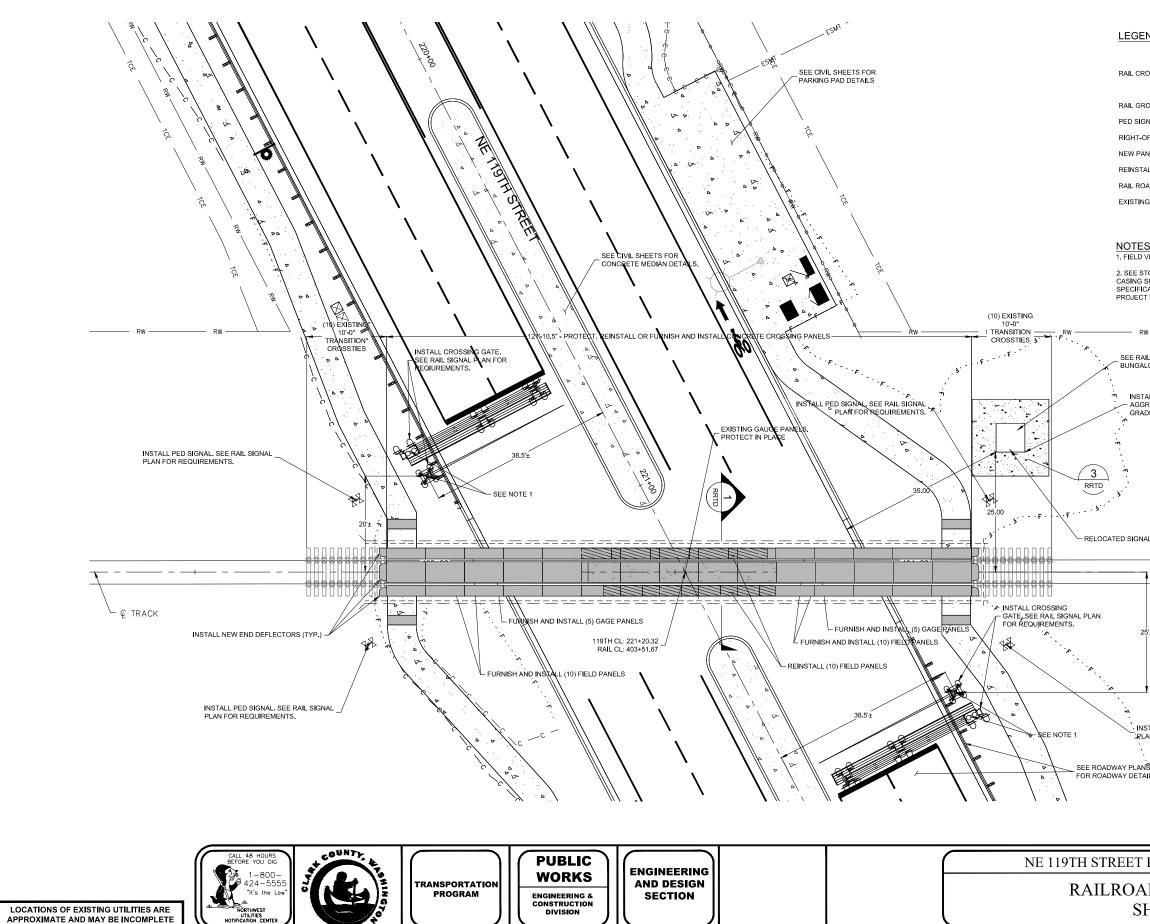




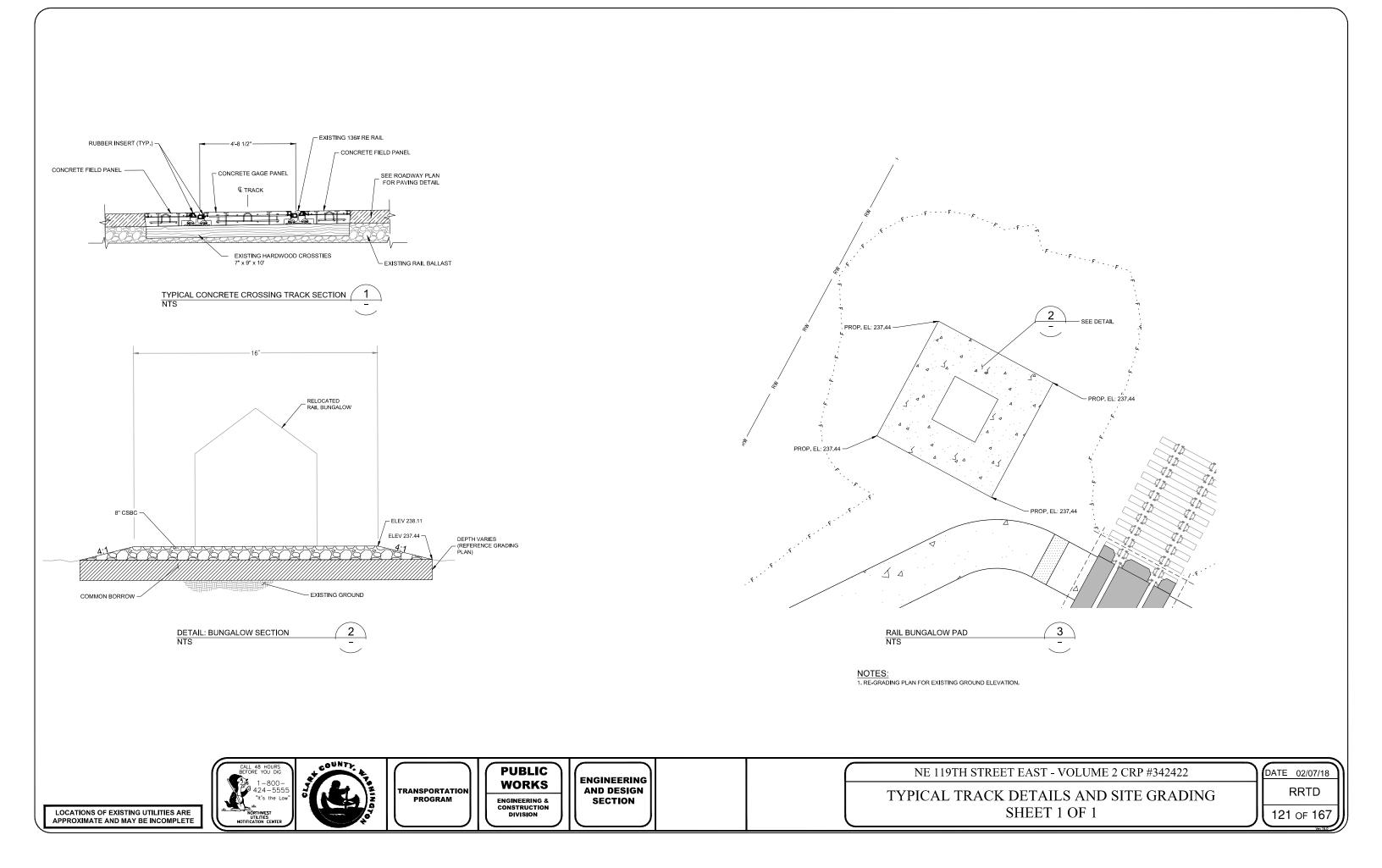


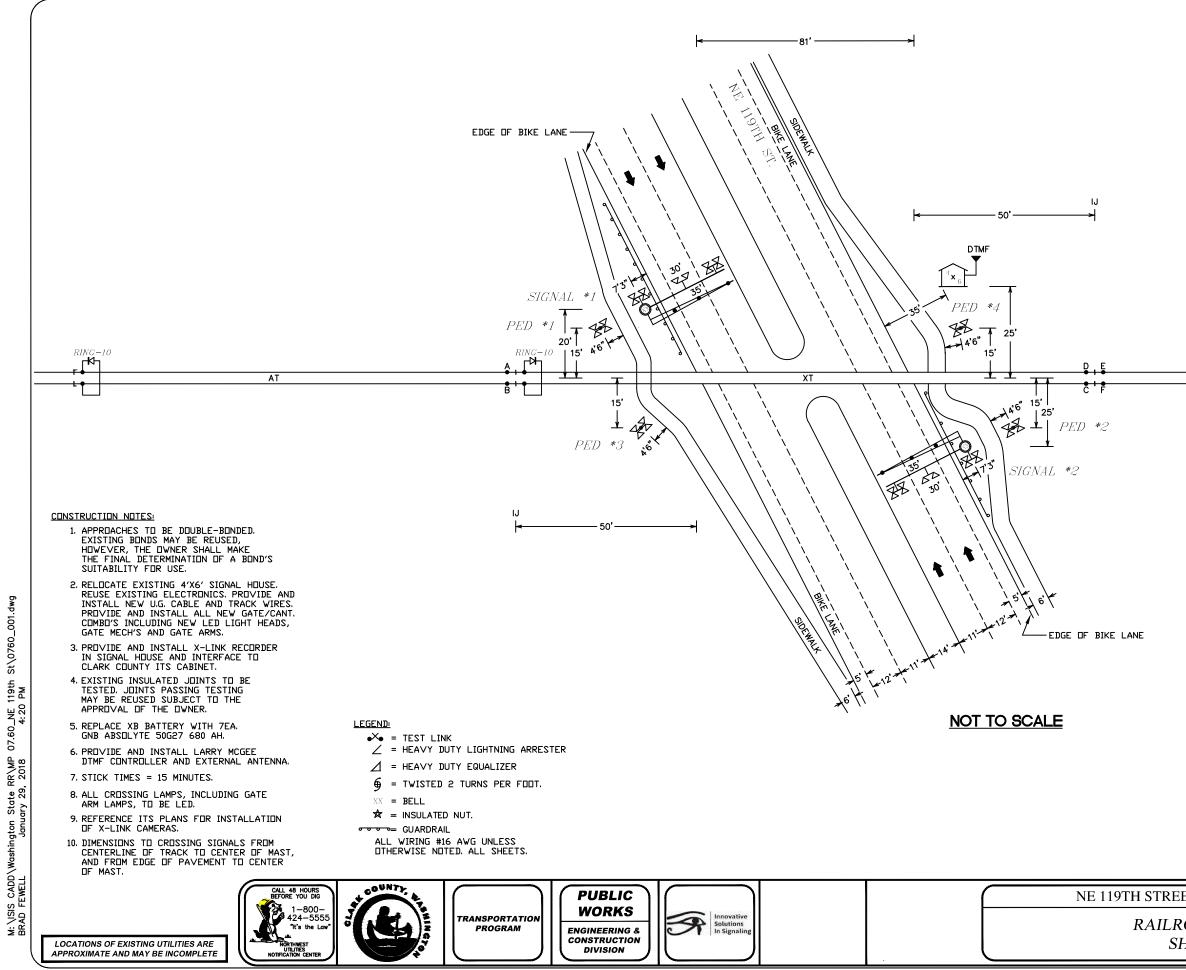






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EAST - VOL	UME 2 CR	2P #3474	22	DATE 02/07/18
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HEET 1 O	F 1			120 of 167
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RAILROAD SIGNALING SHEET 1 OF 15

NE 119TH STREET EAST - VOLUME 2 CRP #342422

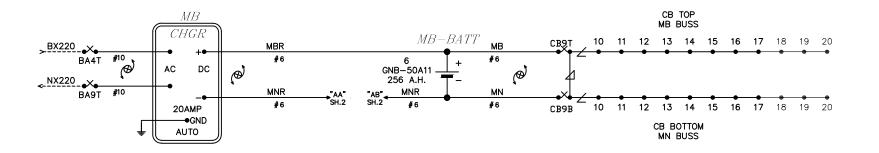
DATE 06/30/16 **RRS1** 122 OF 167

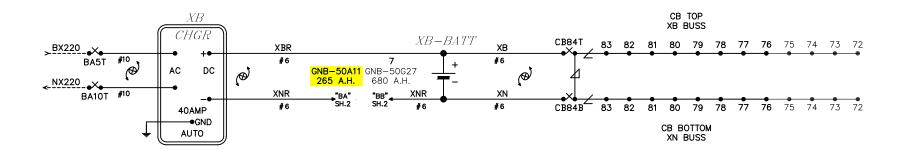
RING−10

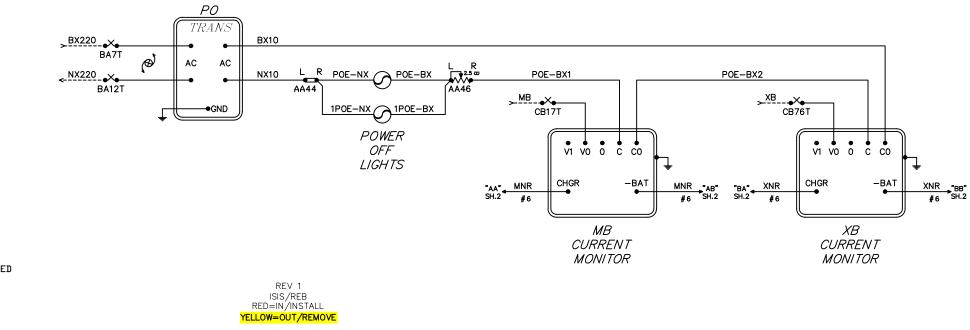
APPROACH AND WARNING TIME CALCULATION	TRACK 1
MINIMUM WARNING TIME	25 SEC
PLUS CLEARANCE TIME	3 SEC
PLUS ADDITIONAL GATE DELAY	0 SEC
PLUS BUFFER TIME	5 SEC
TOTAL WARNING TIME	31 SEC
TOTAL APPROACH TIME	31 SEC
MAXIMUM TRAIN SPEED	10 MPH
TIMES RATIO OF FT/SEC TO MPH	1.4667
TOTAL APPROACH DISTANCE	485 FT.











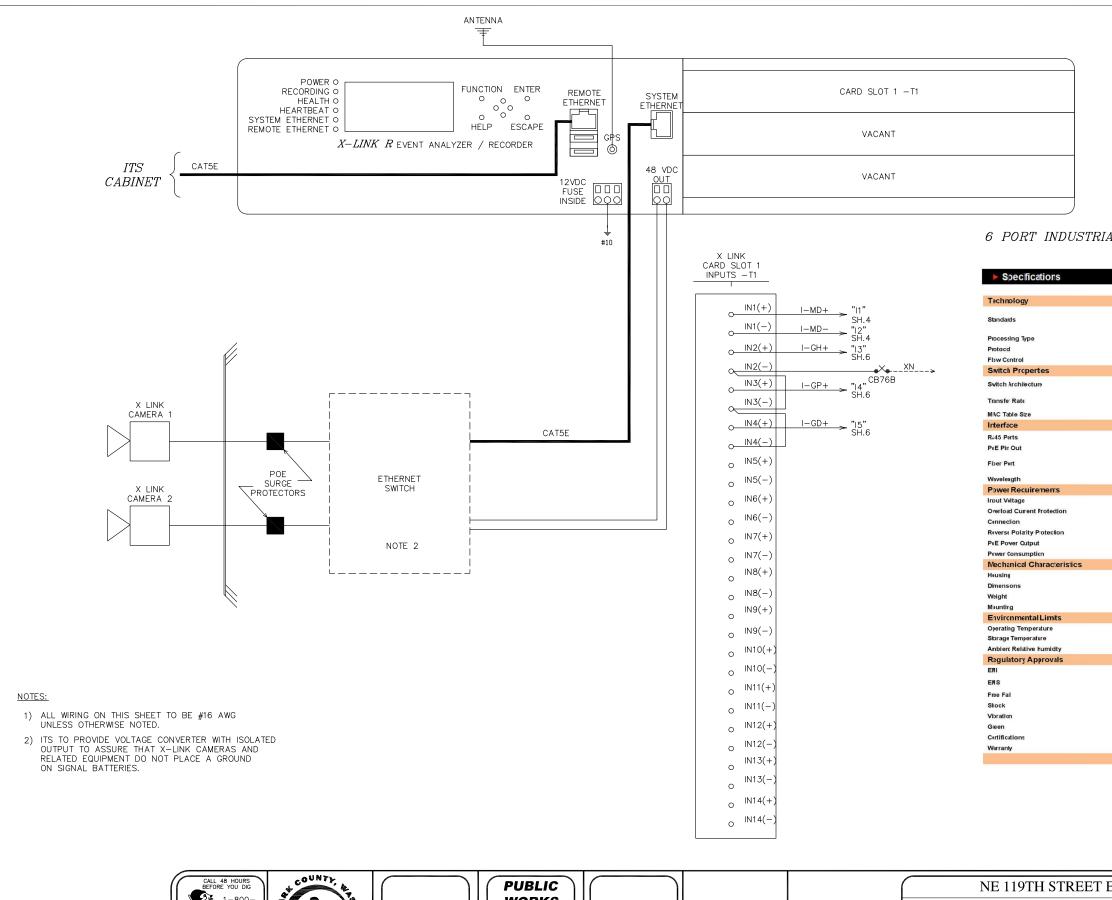
NDTES:

1. ALL WIRING #16 UNLESS NOTED DTHERWISE.



IN COLOR NE 119TH STREET EAST - VOLUME 2 CRP #342422 DATE 06/30/16 RRS2 RAILROAD SIGNALING SHEET 2 OF 15 123 OF 167

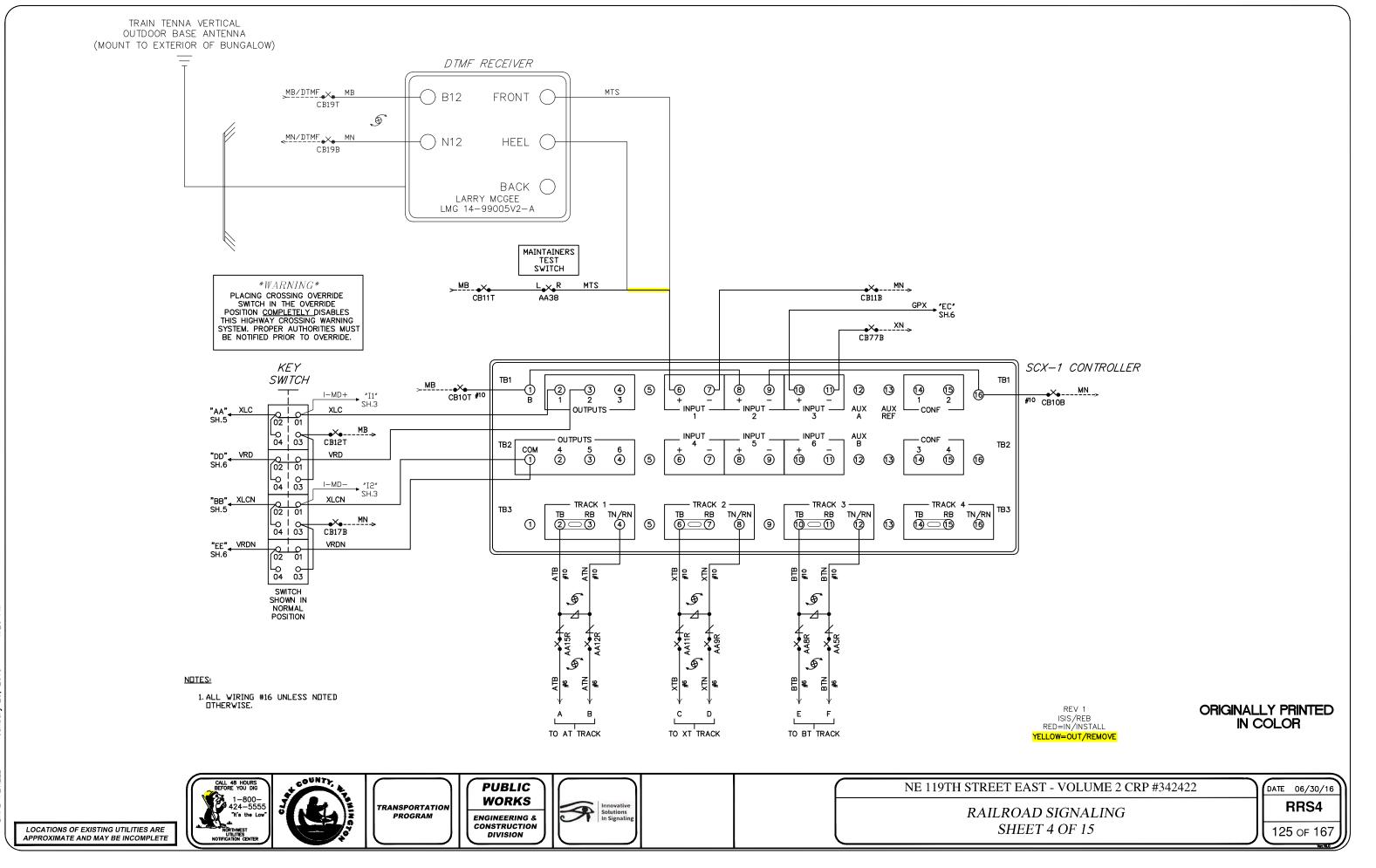


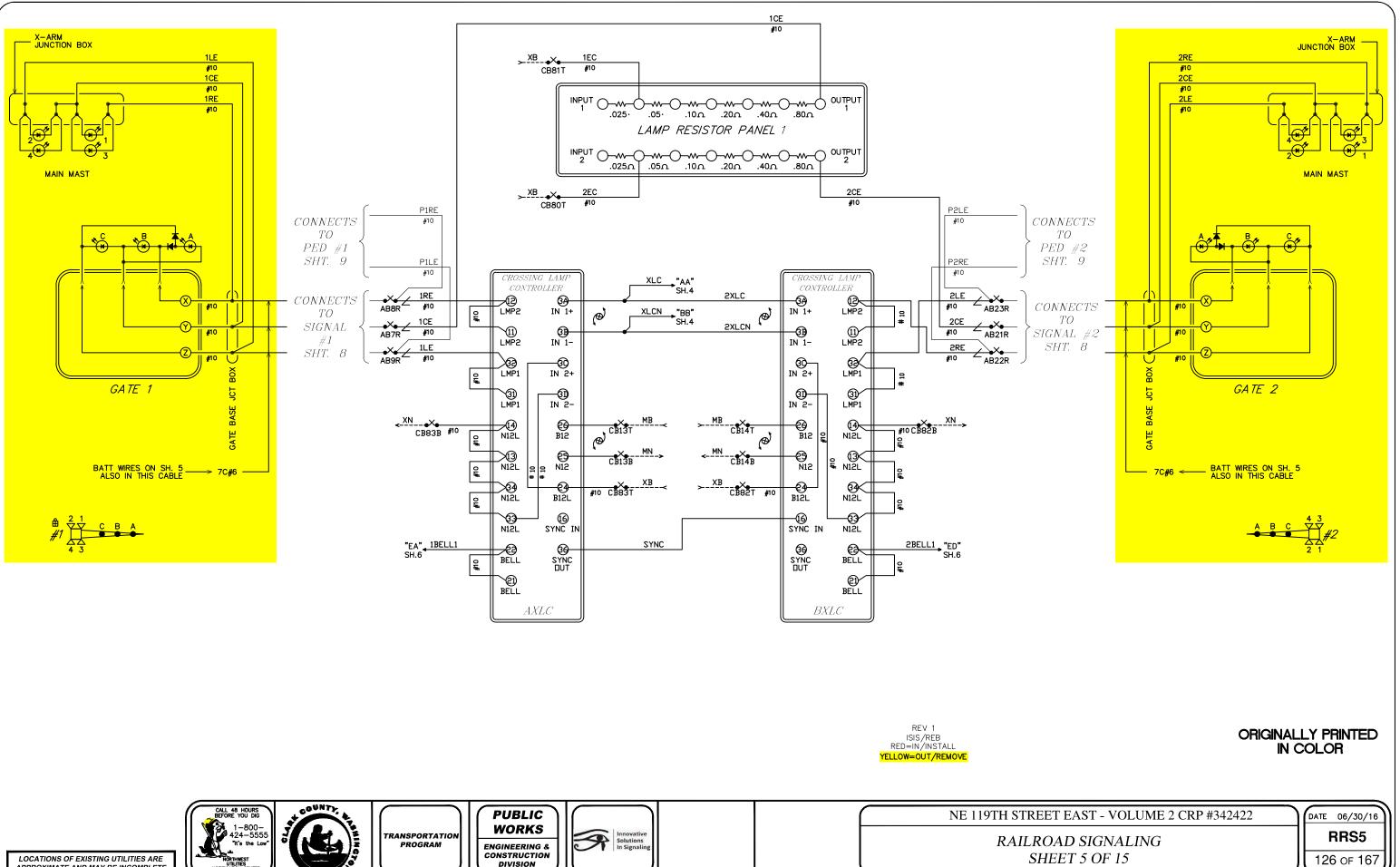


LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND MAY BE INCOMPLETE

6 PORT INDUSTRIAL POE UNMANAGED ETHERNET SWITCH

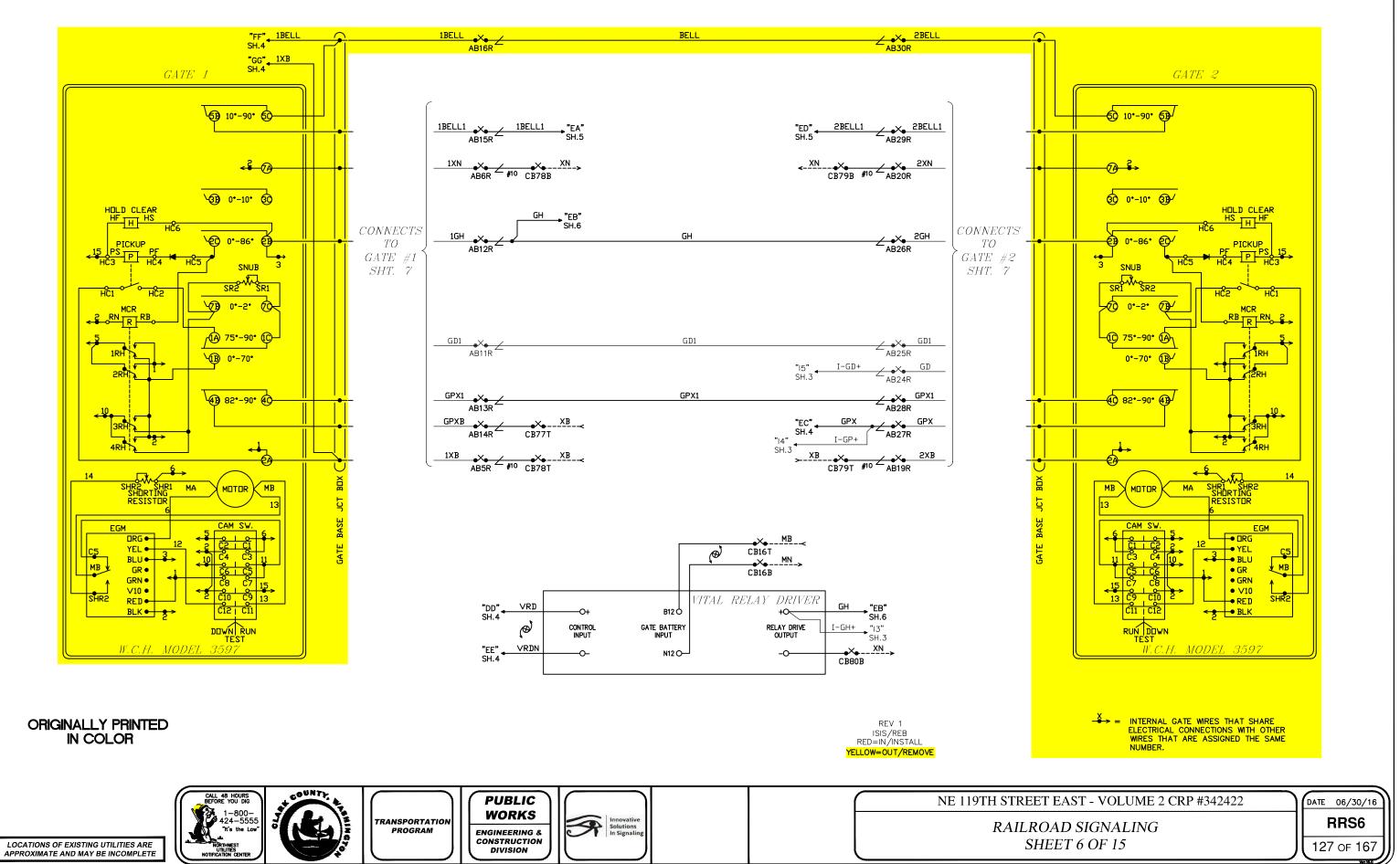
	IEEE802.3 10BaseT Ehernet IEEE802.3 1003aseTX Fast Ethernet IEEE802.3 X Flov Contol and Baci-Pressure IEEE802.3 At Pover over Ethernet Storeand Forward	-
	CSM/CD	
	IEEE 802.3> flowcontrol, back pressure flow control	
	Back-Plane (Switching Fabric): 1.06bps	
	Packet Throughput Ability (Full-Duplex): 1,488Mpps @ 64bytes 14,880pps for EthernetPort 148,800pps for Fist EthernetPort 2K	
	10/10/Bas+T(X) tuto regoliation speed, Full/Half duplex node, and auto MDI/MDI-X connection 4*10x0057; (06-1) × 1140/0057x V+, Vr, V-, for jin ; 2, 3,6 (Erdspan, MDI-X Alternative A) 2*100Fx SC/ST type connector Multi-node (2Km - 50/25um ~ 02/5/125um, Single-mode (30km) - 4/125um ~ 13/125um 1310rm (Mtlim-de and Single-mode)	
	48~55VDC, Redundant Input Slow-Blown Fuse 1 removable 4-contact terminal block Yes	
	25W @ 48YDC (per PcE pori); 30W @ 51~55VDC per FoE pot)	
	110 Watts @ 48\DC; 130 Watts @ 51~55VDC	
cs		
	Metal IP30protection 30 x 142 x 39 mm (1.18 x 5.59 x 3.30 in.)	
	Unit Weight 1.1 bs. Shipping Weight: 1.45 lbs	
	DIN-Rail mounting, wall mounting (sptional)	
	STD: -10° (o 70° C (14° to 158° F); EOT: -40° to 75° C (-40' to 1\$7° F) -40°C~ 85°C (-44° F ~ 185°F)	
	5 to 95%, (ion-condensing)	
	FCC Class A EN6100-4-2; EN3100-4-3; EN610)-4-4; EN6100-4-5; EN3100-4-6; EN610)-4-8 EN6100-6-2; EN3100-6-4 IEC60088-527 EC60088-527	
	IEC6(068-26	
	RoHS Compliant	
	FCC,CE, UL508	
	5 Years	
	NEW SHEET	
EET E	CAST - VOLUME 2 CRP #342422	DATE 06/30/16
	AD SIGNALING	RRS3
SHE	EET 3 OF 15	124 of 167



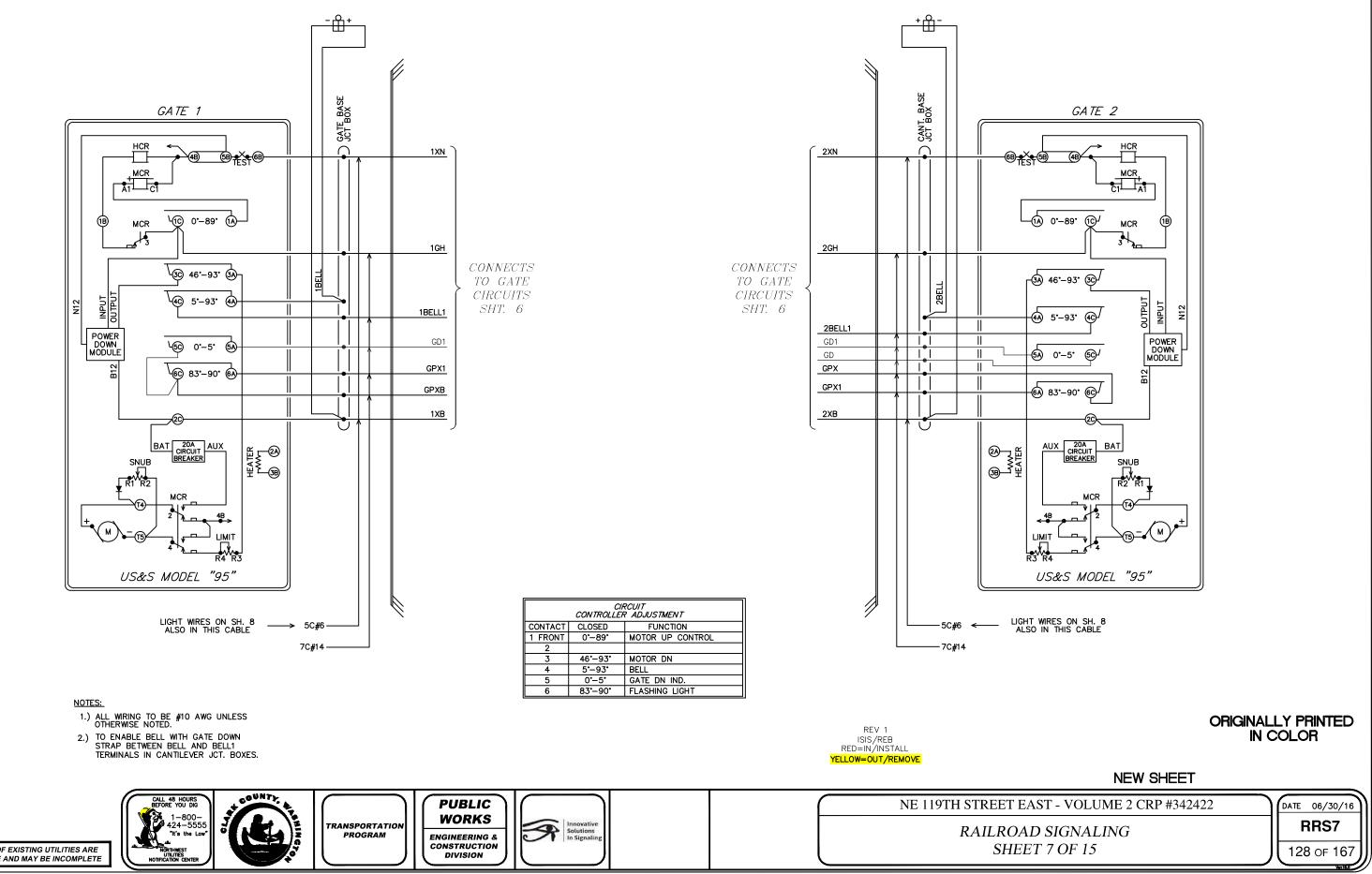


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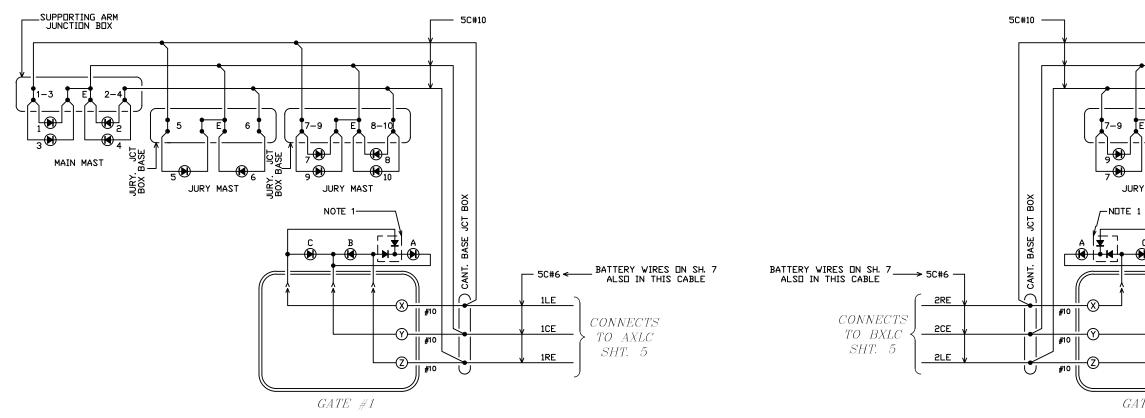
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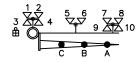
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LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND MAY BE INCOMPLETE





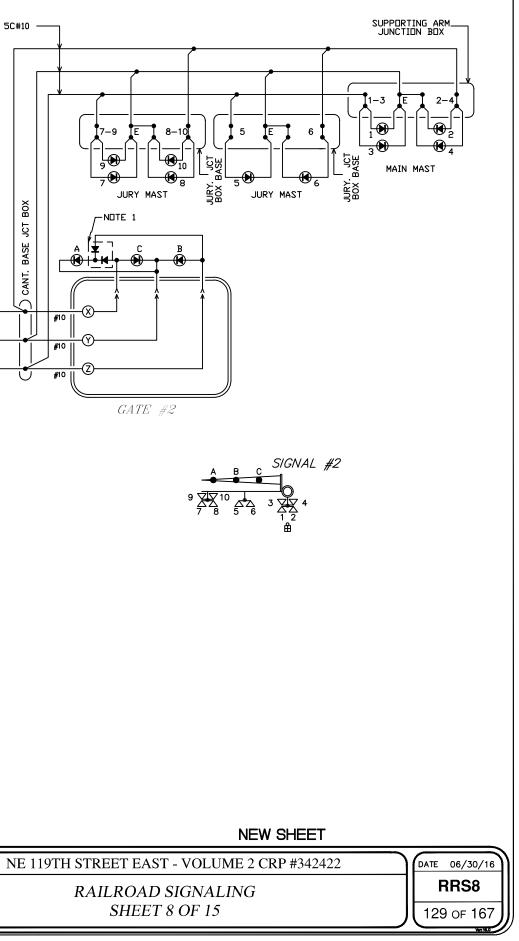


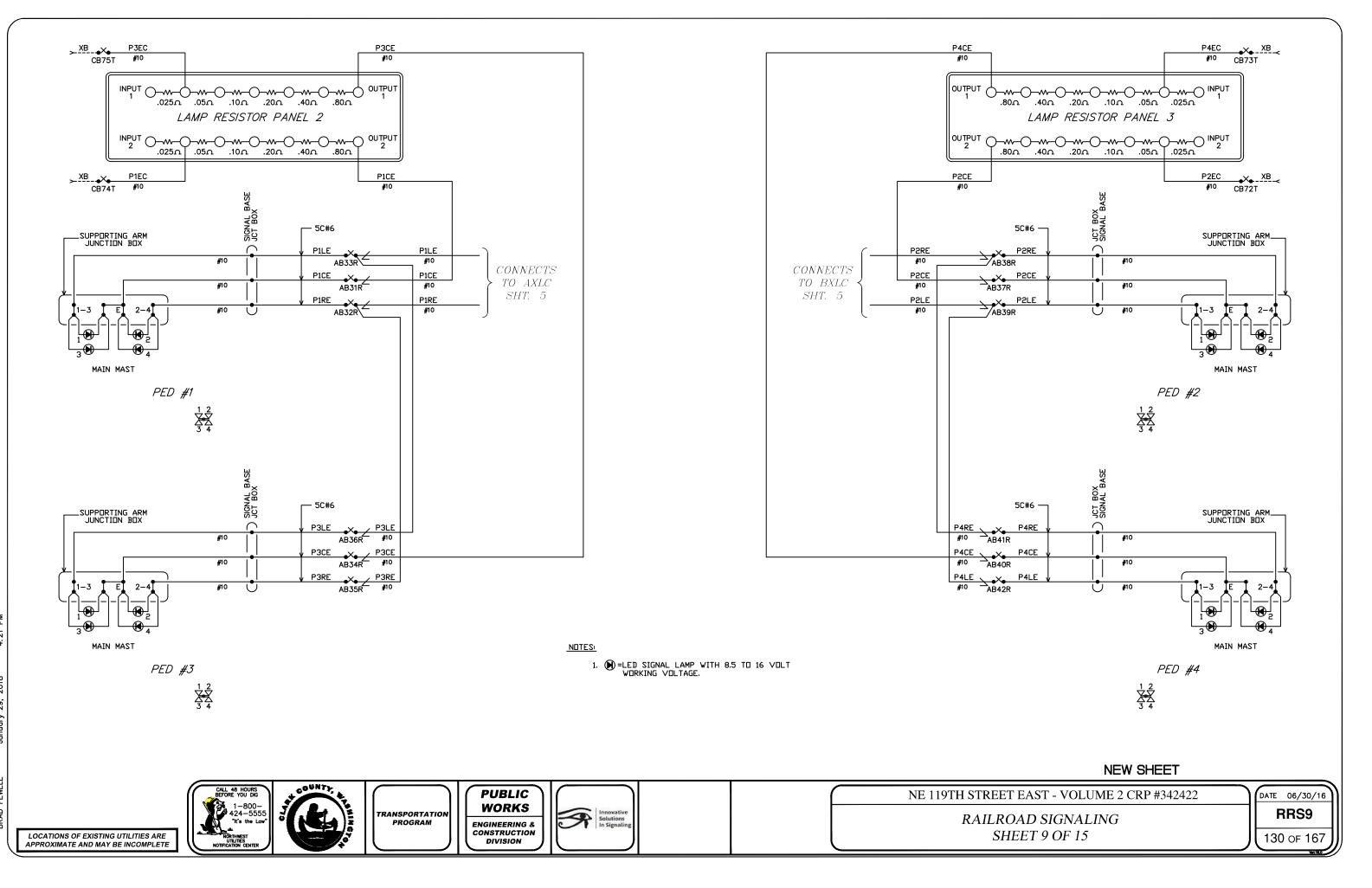
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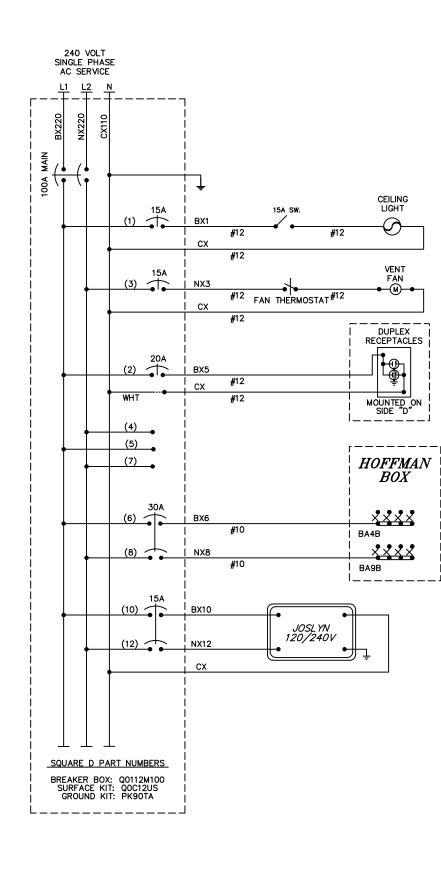
1. GETS-GS P/N 07G045-300.

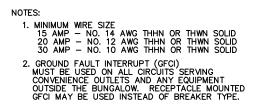
2. () =LED SIGNAL LAMP WITH 8.5 TO 16 VOLT WORKING VOLTAGE.

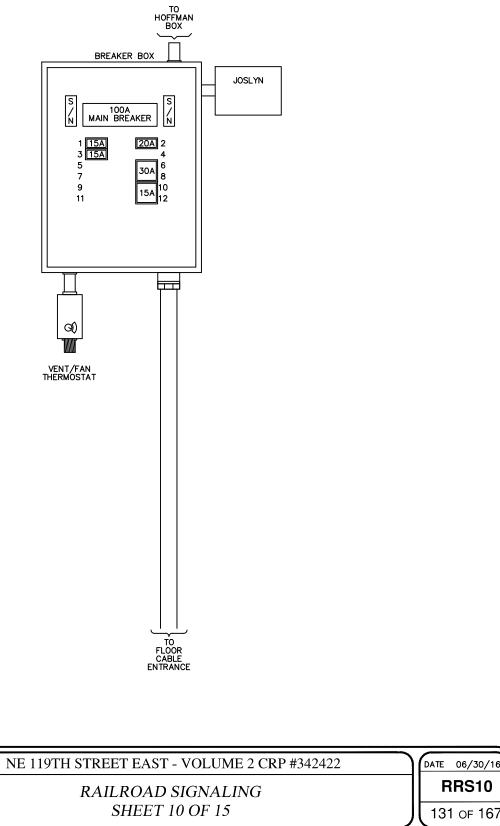








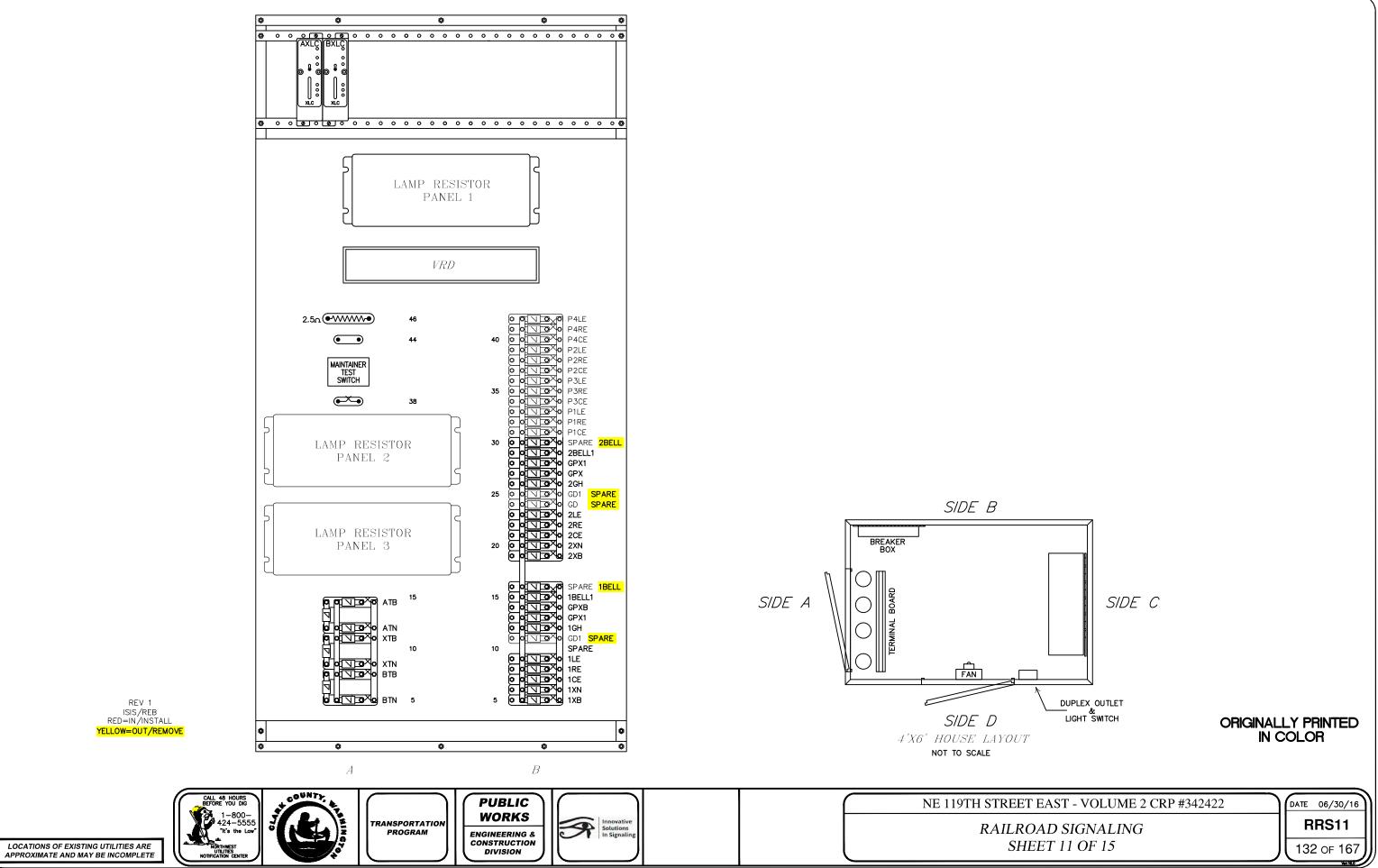




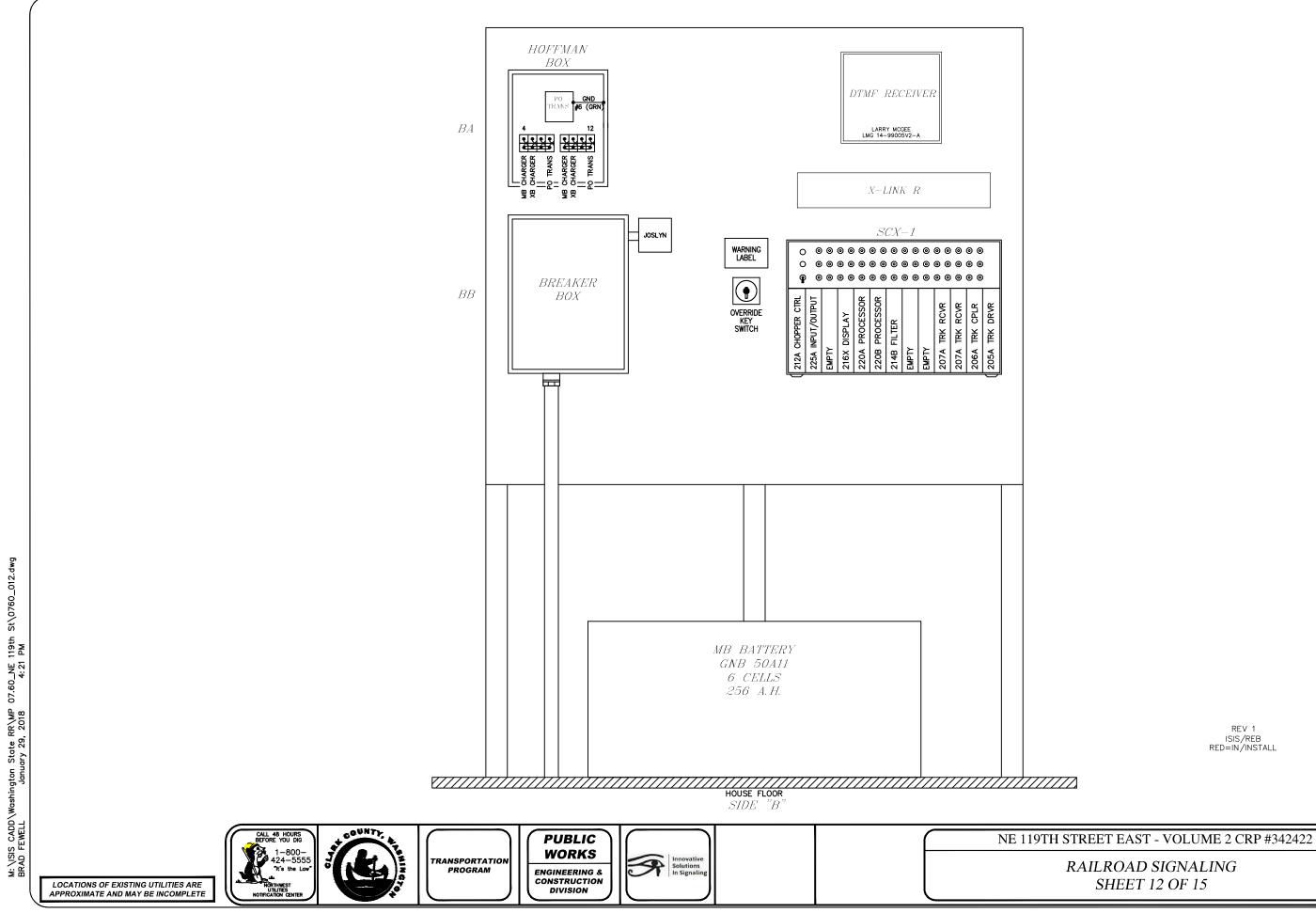




LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND MAY BE INCOMPLETE SIDE B



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RAILROAD SIGNALING SHEET 12 OF 15

DATE 06/30/16 RRS12 133 of 167

REV 1 ISIS/REB RED=IN/INSTALL

ORIGINALLY PRINTED IN COLOR

XB MBCURRENT CURRENT CAMONITOR MONITOR GND. GND. #6 **#**6 MB BUSS CB**10 11 12 13 14 15 16 17** 18 19 20 72 73 74 75 **76 77 78 79 80 81 82 83** MN BUSS GND. GND. **#**6 **#**6 XB CHARGER CCMB CHARGER 20EC-12V 40EC-12V \square Н M:\ISIS CADD\Washington State RR\MP 07.60_NE 119th St\0760_013.dwg BRAD FEWELL January 29, 2018 4:21 PM XB BATTERY GNB 50G27 <mark>50A11</mark> 7 CELLS <mark>.256</mark> 680 A.H. REV 1 ISIS/REB RED=IN/INSTALL YELLOW=OUT/REMOVE HOUSE FLOOR SIDE C COUNTY. NE 119TH STREET EAST - VOLUME 2 CRP #342422 CALL 48 HOURS BEFORE YOU DIG PUBLIC 1-800-WORKS Č, TRANSPORTATION PROGRAM Solutions In Signaling 424-5555 RAILROAD SIGNALING "It's the Lo ENGINEERING & CONSTRUCTION LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND MAY BE INCOMPLETE

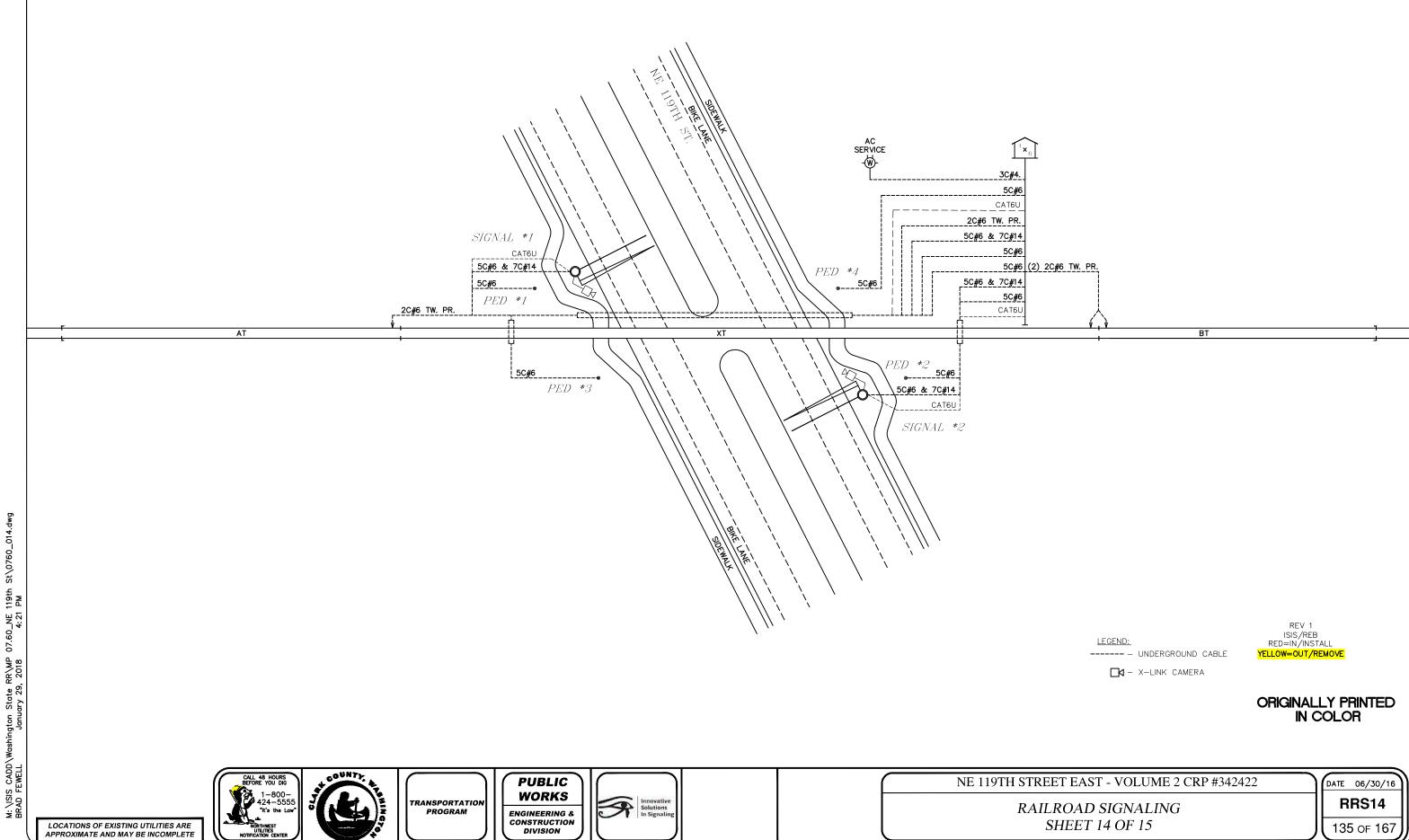
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SHEET 13 OF 15

DATE 06/30/16 **RRS13** 134 OF 167

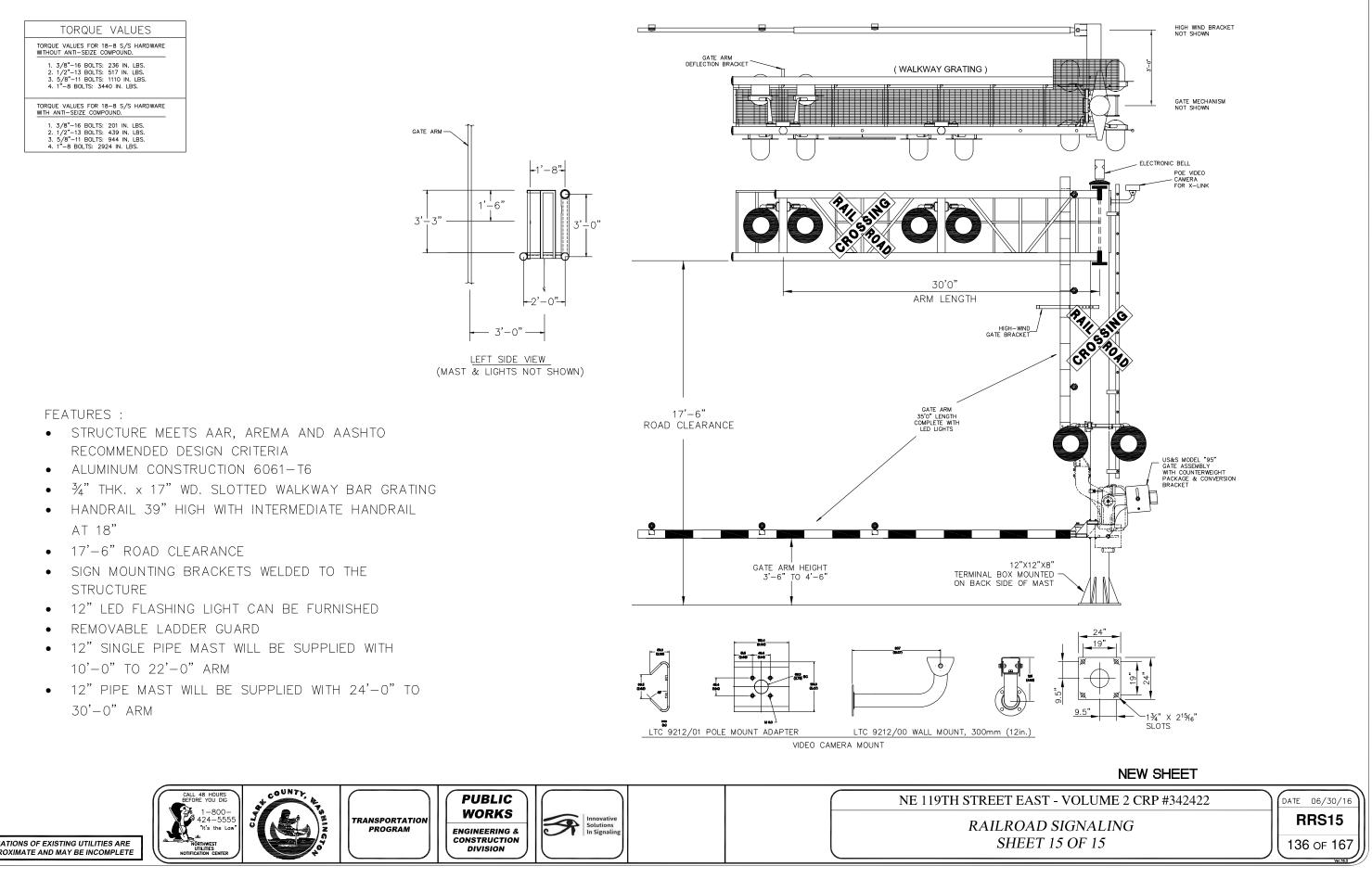






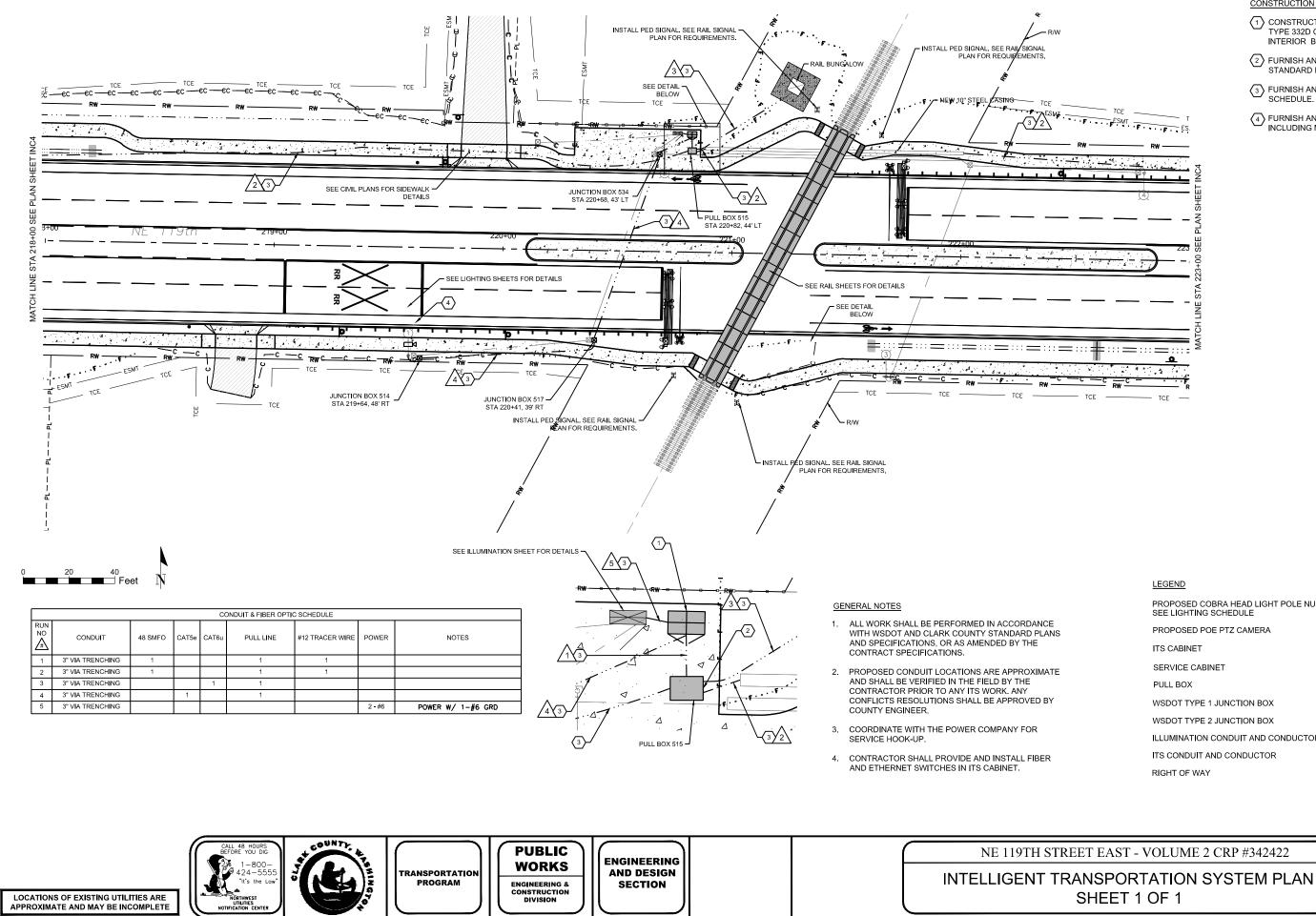


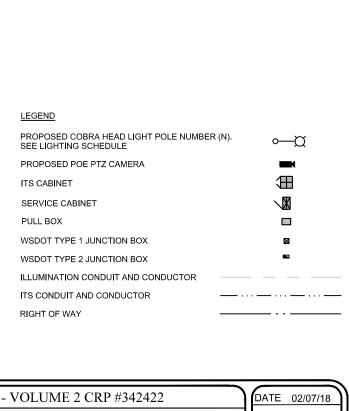






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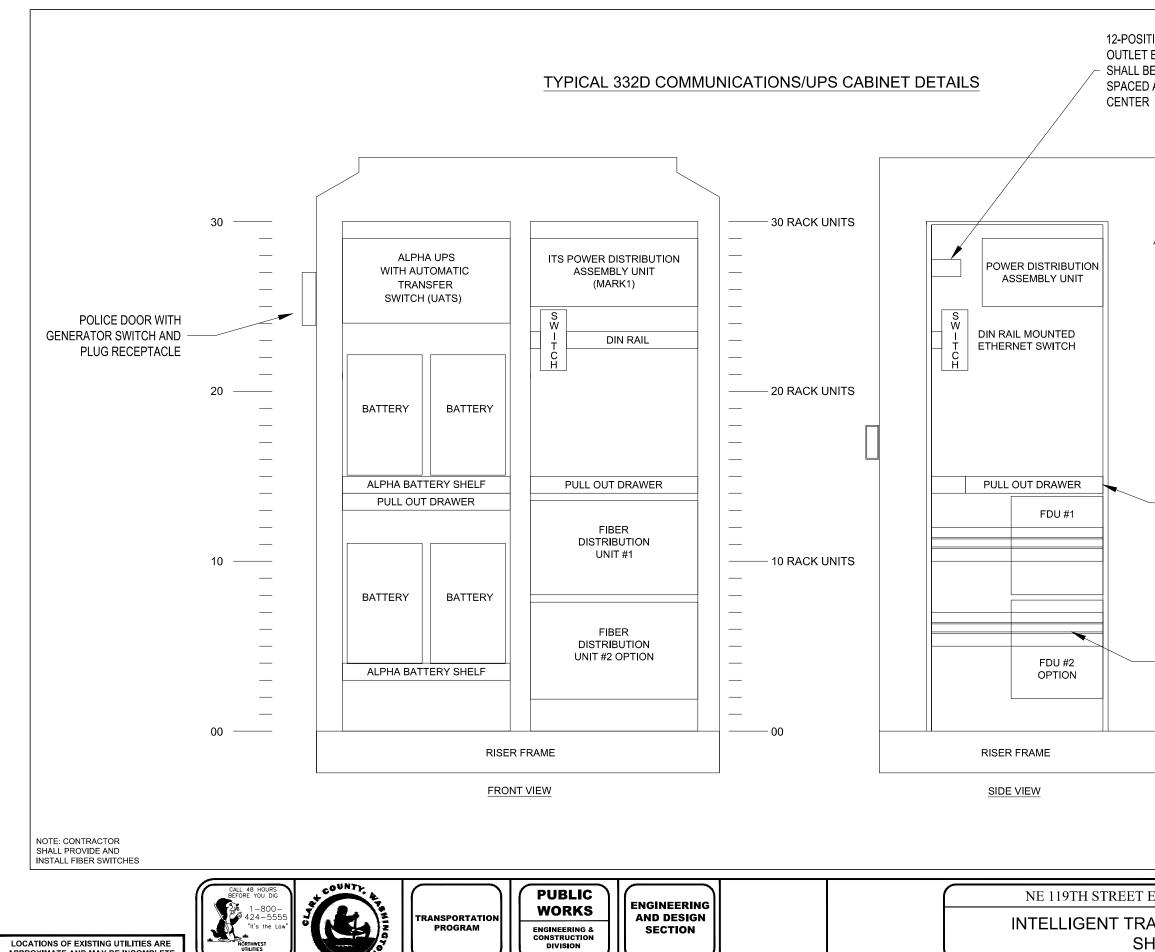




ITSP1

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- CONSTRUCTION NOTES
- (1) CONSTRUCT FOUNDATION, SUPPLY AND INSTALL TYPE 332D CABINET AND ITS EQUIPMENT WITH INTERIOR BATTERY BACKUP, SEE SHEET ITS1
- 2 FURNISH AND INSTALL PULL BOX PER WSDOT STANDARD PLAN J-90.10-02.
- 3 FURNISH AND INSTALL CONDUIT. SEE WIRING SCHEDULE.
- 4 FURNISH AND INSTALL POE PTZ CAMERA INCLUDING MOUNTING EQUIPMENT.



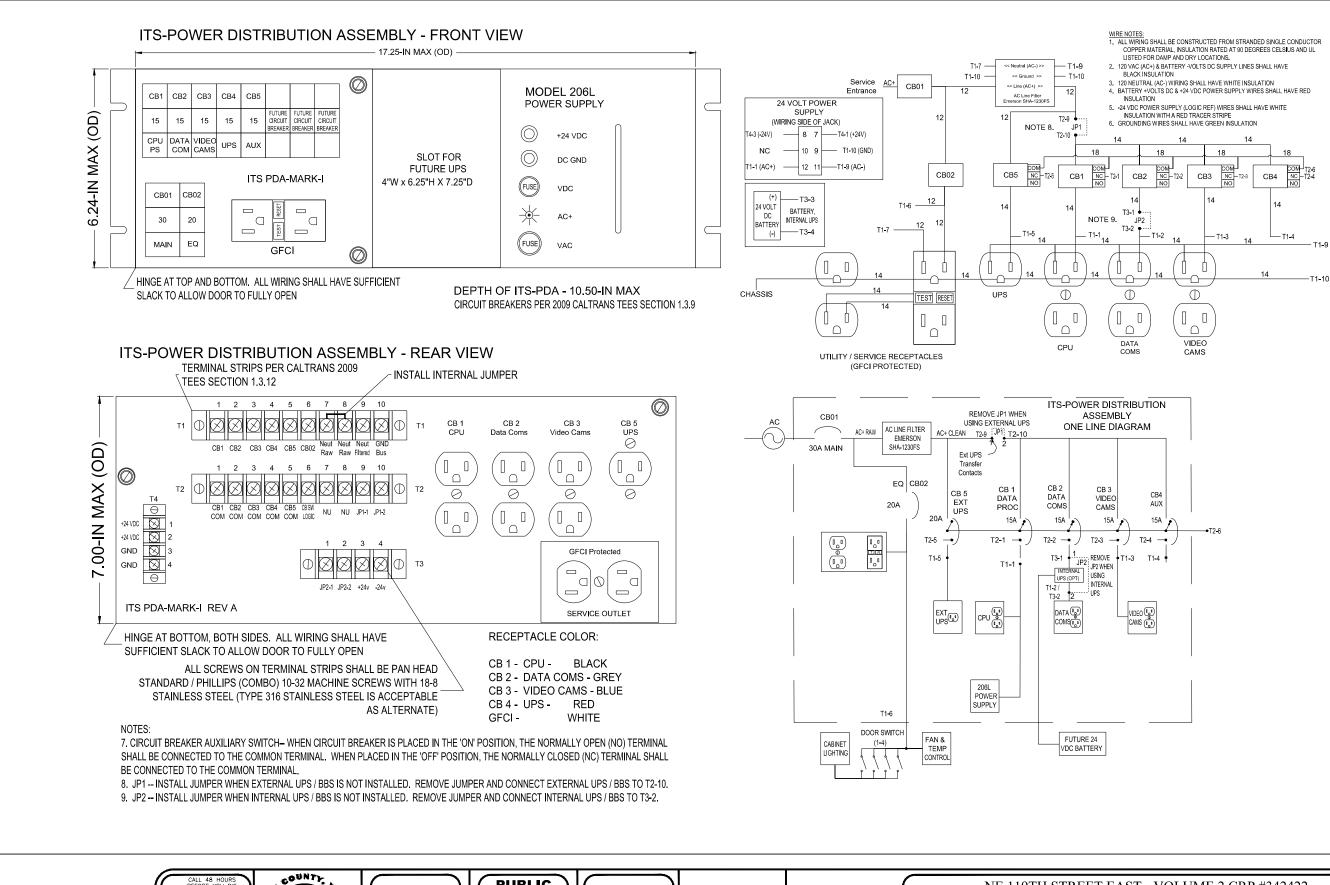
APPROXIMATE AND MAY BE INCOMPLETE

UTILITIE

SF

12-POSITION 19-IN RACK MOUNT ELECTRICAL OUTLET BAR WITH CIRCUIT BREAKER. PLUG-INS SHALL BE ORIENTED WITH SLOTS VERTICAL AND SPACED A MINIMUM OF 2 INCHES APART ON

DOOR SWITCHES FOR CABINET IN LIGHTING FRONT AND BACK	ΓERNAL
FRONT PULL OUT DRAWERS SHALL OPEN TO THE FRONT, WITH FULL CONNECTION TO ALL FOU POSTS OF 19-IN RACK. MOUNTED AT A HEIGH FROM 3-4 FT ABOVE GROUND LEVEL.	
DIN RAILS MOUNTED ON SIDE OF CABINET, ENTI DEPTH OF CABINET ON BOTH OUTSIDE FRAMES 19-IN RACK (4 TOTAL)	
EAST - VOLUME 2 CRP #342422	DATE 02/07/18
ANSPORTATION SYSTEM HEET 1 OF 2	ITS1 138 oF 167



PUBLIC

WORKS

ENGINEERING &

CONSTRUCTION

TRANSPORTATION

PROGRAM

ENGINEERING

AND DESIGN

SECTION

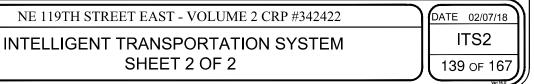
LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND MAY BE INCOMPLETE

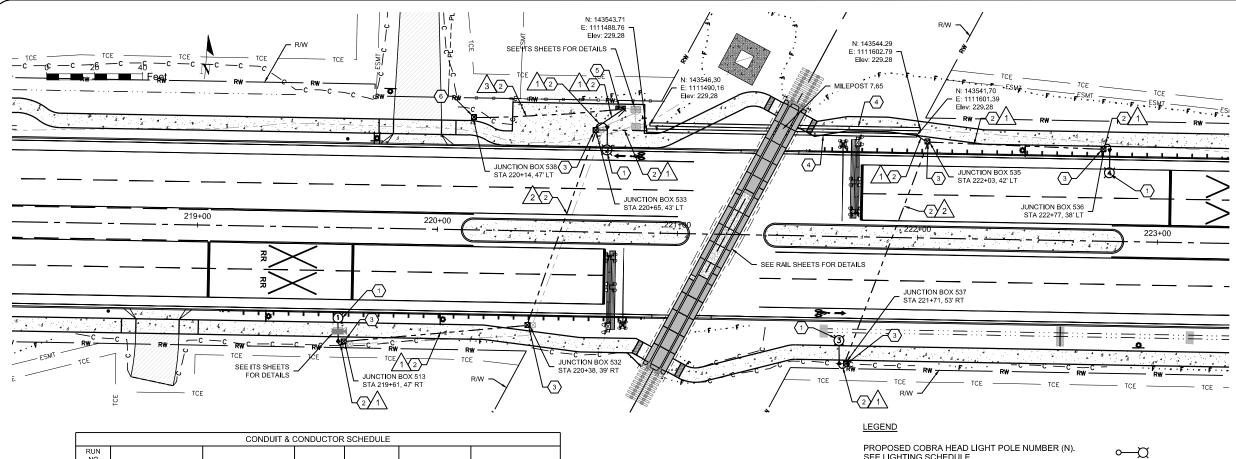
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"It's the La

NOTE: CONTRACTOR SHALL PROVIDE AND INSTALL FIBER SWITCHES





RUN NO.	CONDUIT	ILLUMINATION WIRES	CIRCUIT	PULL LINE	POWER	NOTES
1	2" VIA TRENCHING	2 - #8 w/ 1 - #8 GRD	1	-		
2	2" VIA TRENCHING	2 - #8 w/ 1 - #8 GRD	1	-		
3	2" VIA TRENCHING	-	-	-	2 - #6 w/ #2 GRD	

NOTE: POWER SERVICE REQUIREMENTS TO BE DETERMINED BY CLARK PUBLIC UTILITY

LIGHTING WIRING SCHEDULE												
LUMINAIRE NUMBER	LOCATION		LUMINAIRE			POLE TYPE	CIRCUIT	NOTES				
	STATION	OFFSET	TYPE-DISTRIBUTION-WATTAGE	ARM LENGTH (FT)	MOUNTING HEIGHT (FT)							
1	219+59.2	47.10 Rt	LED - TYPE III - SPEC 9-29.10	15	30	STEEL	1	FIXED BASE				
2	220+70.0	43.00 Lt	LED - TYPE III - SPEC 9-29.10	15	30	STEEL	1	SLIP BASE				
3	221+68.0	38.50 Rt	LED - TYPE III - SPEC 9-29.10	15	30	STEEL	1	FIXED BASE				
4	222+78.2	38.50 Lt	LED - TYPE III - SPEC 9-29.10	15	30	STEEL	1	SLIP BASE				

PROPOSED COBRA HEAD LIGHT POLE NUMBER (N SEE LIGHTING SCHEDULE). ⊶¤
PROPOSED PTZ CAMERA (SEE ITS PLANS)	
WSDOT TYPE 1 JUNCTION BOX	
PROPOSED SERVICE CABINET	X
CPU POWER SERVICE PEDESTAL	
CONDUIT AND CONDUCTOR	
RIGHT OF WAY	

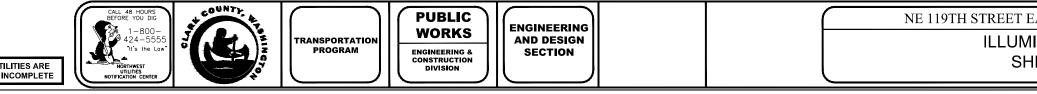
CASING CONTENTS

1. ILLUMINATION CASING:

SCH. 80 HDPE WITH 3 - #8 COPPER WIRE CARRYING 240V.

2. ITS CASING

SCH. 80 HDPE WITH 48 STRAND SINGLE MODE FIBER OPTIC CABLE.



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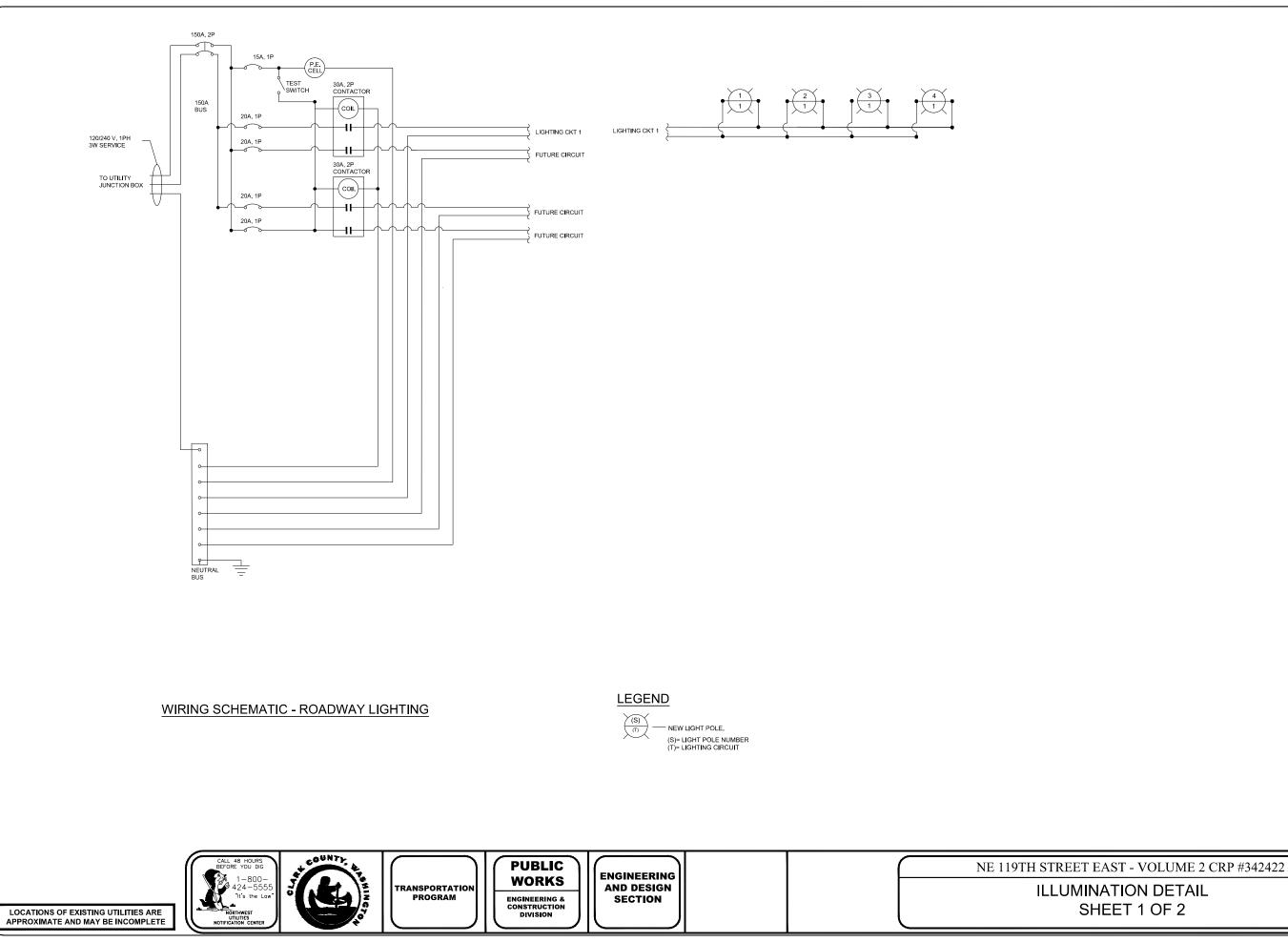


- INSTALL NEW LED COBRA HEAD STYLE STEEL STREET LIGHT POLE ON NEW FOUNDATION
- 2 FURNISH AND INSTALL LIGHTING CONDUIT. SEE LIGHTING WIRING SCHEDULE
- (3) FURNISH AND INSTALL TYPE 1 JUNCTION BOX. SEE WSDOT STD. PLAN J-40.10-04
- FURNISH AND INSTALL 2 -10" STEEL CASINGS BY DIRECTIONAL BORE. SEE ITS PLANS FOR FIBER OPTIC CABLING. SEE GENERAL NOTE 2. VERIFY DEPTH TO BE $\langle \mathbf{4} \rangle$ 6.0 FEET BELOW RR TOP OF TIE (APPROX. ELEV: 236.8)
- 5 CONSTRUCT FOUNDATION, FURNISH AND INSTALL METERED SERVICE PER DETAIL ON SHEET ILLD1 AND LLD2
- (6) CPU SERVICE POLE, COORDINATE CONNECTION WITH CPU.
- $\langle \overline{7} \rangle$ INSTALL SERVICE CONDUIT AND WIRING

GENERAL NOTES

- 1. SEE WSDOT STANDARD PLANS:
 - J-28.10-01 FOR STEEL LIGHT STANDARD.
- J-28.22-00 FOR STEEL LIGHT STANDARD (SLIP BASE) J-28.22-00 FOR STEEL LIGHT STANDARD (FIXED BASE) J-28.24-01 FOR STEEL LIGHT STANDARD (FIXED BASE). J-28.30-03 FOR DESIGN OF TYPE A FOUNDATION
- J-28.40-02 FOR STEEL LIGHT STANDARD BASE
- MOUNTING (FIXED BASE). J-28.42-01 FOR STREET LIGHT STANDARD
- ANCHOR/SLIP PLATE FOR SLIP BASE J-28.50-03 FOR STREET LIGHT STANDARD POLE BASE AND HAND HOLE DETAILS. J-28.70-03 FOR STREET LIGHT STANDARD WIRING
- DETAILS.
- 2. STEEL CASING SHALL HAVE A MINIMUM THICKNESS OF 0.188 INCHES AND A MINIMUM YIELD STRENGTH OF 35,000 P.S.I
- 3. ALL CONDUIT RUNS AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS MAY BE ADJUSTED TO AVOID CONFLICTS AND EASE OF CONSTRUCTION, BUT MUST BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.

EAST - VOLUME 2 CRP #342422	DATE 02/07/18	
MINATION PLAN	ILLP1	
HEET 1 OF 1	140 of 167	



EAST - VOLUME 2 CRP #	+
NATION DETAIL	
HEET 1 OF 2	



150 AMP TYPE 120/240 1ø SERVICE CABINET

NOTES:

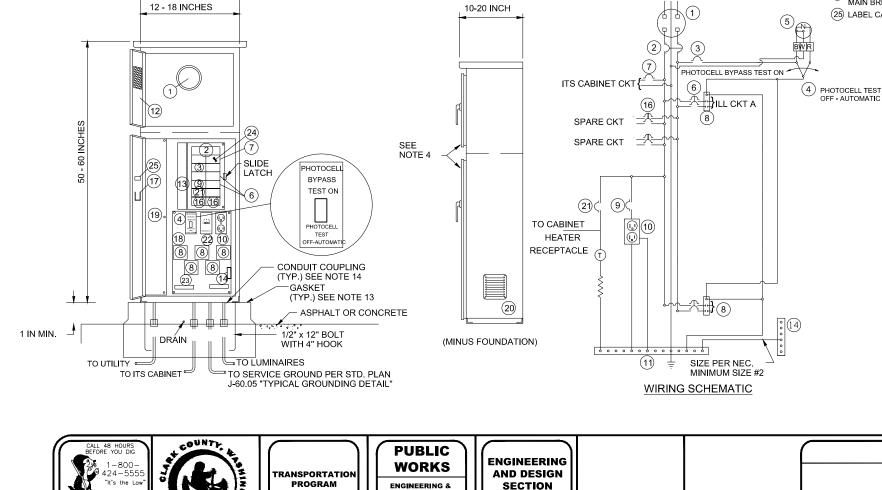
- 1. SEE STD. SPECIFICATION 9-29.24, SERVICE CABINETS. THE CONTRACTOR SHALL SUBMIT A REQUEST FOR APPROVAL OF MATERIALS THAT DESCRIBES THE SERVICE CABINET PROPOSED FOR USE.
- 2. HINGES SHALL HAVE STAINLESS STEEL OR BRASS PINS.
- 3. CABINETS SHALL BE RATED NEMA 3R AND SHALL INCLUDE TWO RAIN TIGHT VENTS.
- 4. METERING EQUIPMENT DOOR SHALL BE PAD LOCKABLE. EACH DOOR SHALL BE GASKETED. INSTALL FIGURE 8 CORE LOCK ON BOTTOM DOOR COMPATIBLE WITH COUNTY LOCKS.
- 5. METERING ARRANGEMENTS VARY WITH DIFFERENT SERVING UTILITIES. THE UTILITY MAY REQUIRE METER BASE MOUNTING IN THE ENCLOSURE, ON THE SIDE OR ON THE BACK OF THE ENCLOSURE. THE UTILITY MAY SPECIFY A MINIMUM DIMENSION BETWEEN THE DOOR AND THE FRONT OF THE SAFETY SOCKET.
- 6. THE CONTRACTOR SHALL VERIFY THE SERVING UTILITY'S REQUIREMENTS PRIOR TO FABRICATION OF AND INSTALLING THE SERVICE EQUIPMENT.

- 8. ALL BUSSWORK SHALL BE HIGH GRADE COPPER AND SHALL EQUAL OR EXCEED THE MAIN BREAKER RATING. ALL BREAKERS SHALL BOLT ONTO THE BUSSWORK. JUMPERING OF BREAKERS SHALL NOT BE ALLOWED BUSSWORK SHALL ACCOMMODATE ALL FUTURE EQUIPMENT AS SHOWN IN THE BREAKER SCHEDULE.
- 9. ALL INTERNAL WIRE RUNS SHALL BE IDENTIFIED WITH "TO - FROM" CODED TAGS LABELED WITH THE CODE LETTERS AND/OR NUMBERS SHOWN ON THE SCHEDULES APPROVED PVC OR POLYOLEFIN WIRE MARKING SLEEVES SHALL BE USED.
- 10. A 1% TOLERANCE IS ALLOWED FOR ALL DIMENSIONS.
- 12. INSTALL CONDUIT COUPLINGS ON ALL CONDUITS. PLACE COUPLINGS FLUSH WITH TOP OF CONCRETE FOUNDATION.
- 13. SEAL CABINET TO FOUNDATION WITH A 1/2" BEAD OF SILICONE. APPLY SILICONE TO DRY SURFACE ONLY. INSTALL GASKET (30 LB BUILDING PAPER) AND SEAL WITH A NON-HARDENING WATER-TIGHT SEALANT.
- 14. THE METER BASE PORTION OF THIS SERVICE SHALL MEET METERING PORTION OF EUSERC DRAWING 309 REQUIREMENTS.
- 15. UNUSED CIRCUIT BREAKER LOCATIONS SHALL BE COVERED.

120/240 VAC

- 1 METER BASE PER SERVING UTILITY REQUIREMENTS. AS A MINIMUM, THE METER BASE SHALL BE SAFETY SOCKET BOX WITH FACTORY INSTALLED TEST BYPASS FACILITY THAT MEETS THE REQUIREMENTS OF EUSERC DRAWING 304.
- (2) 150 AMP MAIN BREAKER
- (3) PHOTOCELL BREAKER (SPST 15 AMP 120/240 VOLT)
- (4) PHOTOCELL TEST SWITCH (SPDT SNAP ACTION, POSITIVE CLOSE, 15 AMP - 120/277 VOLT "T" RATED)
- (5) PHOTOELECTRIC CONTROL, MOUNTED ON LUMINAIRE No. 1
- (6) ILLUMINATION CIRCUIT BREAKER (20 AMP)
- (7) ITS CABINET CIRCUIT BREAKER (50 AMP)
- (8) CONTACTOR
- (9) RECEPTACLE BREAKER (SPST 20 AMP 120/240 VOLT) (10) RECEPTACLE, GROUNDED (GFCI 20 AMP - 125 VOLT)
- (11) NEUTRAL BUSS, 14 LUG COPPER
- (12) HINGED FRONT FACING DOOR WITH 4" x 4" MIN. POLISHED WIRE GLASS WINDOW.
- (13) HINGED DEAD FRONT WITH 1/4 TURN FASTENERS OR SLIDE LATCH.
- (14) CABINET MAIN BONDING JUMPER BUSS SHALL BE 4 LUG TINNED COPPER. SEE CABINET MAIN BONDING JUMPER DETAIL, STANDARD PLAN J-3b.
- (16) SPARE BRANCH BREAKER (DPST 20AMP- 120/240 VOLT)
- (17) METAL WIRING DIAGRAM HOLDER
- (18) REMOVABLE EQUIPMENT MOUNTING PAN

- (22) NOT USED
- 23 NOT USED
- (24) 24 CIRCUIT PANEL BOARD MINIMUM SIZE WITH SEPARATE MAIN BREAKER.
- (25) LABEL CABINET WITH BUSSWORK RATING.



CONSTRUCTION

DIVISION

LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND MAY BE INCOMPLETE

(19) 6" x 6" MIN. UNDERGROUND FEED - UTILITY SERVICE WIREWAY (LEFT REAR CORNER)

(20) SCREENED VENTS, 2 REQUIRED, 1 EACH SIDE, LOUVERED PLATES. (21) PROVIDE BREAKER FOR SIGNAL CABINET HEATER (SPST 20 AMP - 120/240 VOLT)

NE 119TH STREET EAST - VOLUME 2 CRP #342422 **ILLUMINATION DETAIL** SHEET 2 OF 2

