

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

Yakima County

Petitioner,

vs.

BNSF Railway Company, and Central Washington Railroad Respondent

DOCKET NO. TR-		
PETITION TO RELOCATE A HIGHWAY-RAIL GRADE CROSSING	State Of W UTIL. AND TR. COMMIS	02/03/20
USDOT CROSSING NO.;	VASH. ANSP. SION	13:05

Records Management

Received

The Petitioner asks the Washington Utilities and Transportation Commission (UTC) to approve relocation of a highway-rail grade crossing.



v

Yakima County	
Petitioner	
Kritt II Syland	
Signature	
128 N. 2 nd Street, 4 th Floor Courthouse	
Street Address	
Yakima, WA 98901	
City, State and Zip Code	
	-
Mailing Address, if different than the street address	
Duett 01 - CC - 1 1	
Brett Sheffield Contact Person Name	
Contact Person Name	
500 574 2300 bratt shaffiald@aa waltima	
509-574-2300 brett.sheffield@co.yakima.wa.us Contact Phone Number and E-mail Address	
Contact I none Number and E-man Address	

Section 2 - Respondent's Information

BNSF	١	Central Washington Railroad
Respondent		
	,	
2454 Occidental Ave. South, Suite 1A Street Address	1	111 University Pkwy, Suite 200
Street Address		
Seattle, WA 98134-1451	١	Yakima, WA 98901
City, State and Zip Code		
Mailing Address, if different than the st		
Maning Address, if unferent man the s	.ree	taddress
Stephen Semenick	١	Tim Marshall
Contact Person Name		
		A projects answer to
206-625-6152	1	509-433-9166
Contact Phone Number and E-mail Add	ires	-
Stephen.semenick@bnsf.com	1	tmarshal@cbrr.com

Section 3 – Current and Proposed Location of Crossing

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1. Existing highway/roadway: Butterfield Road			
2. Existing railroad: BNSF \ CWRR			
3. Current GPS location Lat. 46° 36' 46.96" Long120°28' 20.29" N 004666666.54 E 01647377.01			
4. Current railroad mile post (nearest tenth): 2.5			
5. City N/A County Yakima			
6. Highway/roadway for relocated crossing: Mill Parkway			
7. GPS location for relocated crossing: Lat. 46°36' 48.63" N 00466835.48	Long120° 28' 23.59" E 01647146.70		
8. Railroad mile post for relocated crossing (nearest tenth): 2.5			

1. Railroad company: BNSF (Owner) \ CWR (operator)
2. Type of railroad at crossing X Common Carrier Logging Industrial
□ Passenger □ Excursion
3. Type of tracks at crossing
4. Number of tracks at crossing1
5. Average daily train traffic, freight2
Authorized freight train speed 10 Operated freight train speed 10
6. Average daily train traffic, passenger0
Authorized passenger train speed Operated passenger train speed
7. Will the proposed relocated crossing eliminate the need for one or more existing crossings? Yes NoX
8. If so, state the distance and direction from the proposed relocated crossing.
There is an existing private crossing located approximately 125 feet north and west of
the proposed new crossing location.

Section 4 – Proposed Relocated Crossing Information

Section 5 – Current Highway Traffic Information

1. Name of roadway/highway Butterfield Road	
2. Roadway classification Major Collector	
3. Road authorityYakima County	7
4. Average annual daily traffic (AADT)2,910 (2017 Counts)	
5. Number of lanes _2	
6. Roadway speed35	
7. Is the crossing part of an established truck route? Yes X No	
8. If so, trucks are what percent of total daily traffic? <u>10%</u>	
9. Is the crossing part of an established school bus route? Yes X	No
10. If so, how many school buses travel over the crossing each day? 2	
11. Describe any changes to the information in 1 through 10, above, exp Yakima County is in the process of constructing a new regional cor roadway network in this area will be modified, requiring the relocation of	ridor. As a result, the

Section 6 – Alternatives to the Proposal

Is it feasible to construct an over-crossing or under-crossing at the proposed location as an alternative to an at-grade crossing?
 Yes _____ No _X___

2. If an over-crossing or under-crossing is not feasible, explain why.

The topography is flat and near the Yakima River. The roadway is being constructed to

serve an area zoned Light Industrial. The roadway would not be able to provide access

to several parcels if the roadway was elevated.

3. Is there an existing public or private crossing in the vicinity of the proposed relocated crossing? Yes X No 4. If a crossing exists, state:

◆ The distance and direction from the proposed crossing.

• Whether it is feasible to divert traffic from the relocation to the existing crossing.

There is an existing private crossing located approximately 125 feet north and west

of the proposed new crossing location that provides access to a single-family residence.

Section 7 – Sight Distance

1. Complete the following table, describing the sight distance for motorists when approaching the tracks from either direction at the proposed relocated crossing.

a. Approaching the crossing from	West	, the current approach provides an unobstructed
view as follows: (N	lorth, South, East, We	est)

Direction of sight (left or right)	Number of feet from proposed crossing	Provides an unobstructed view for how many feet
Right	300	750
Right	200	950
Right	100	1600
Right	50	1600
Right	25	1600
Left	300	550
Left	200	600
Left	100	650
Left	50	720
Left	25	1000

b. Approaching the crossing from ______, the current approach provides an unobstructed view as follows: (Opposite direction-North, South, East, West)

Direction of sight (left or right)	Number of feet from proposed crossing	Provides an unobstructed view for how many feet
Right	300	430
Right	200	400
Right	100	2000
Right	50	2000
Right	25	2000
Left	300	400
Left	200	400
Left	100	1000
Left	50	2000
Left	25	2000

 Are there any hillsides, embankments, buildings, trees, railroad loading platforms or other barriers in the vicinity which may obstruct a motorist's view of the relocated crossing? Yes NoX
3. If a barrier exists, describe: whether petitioner can relocate the crossing to avoid the obstruction and if not, why not; how the barrier can be removed; or how the petitioner or another party can mitigate the hazard caused by the barrier.
 4. Will the relocated crossing provide a level approach measuring 25 feet from the center of the railway on both approaches to the crossing? Yes X No
5. If not, state in feet the length of level grade from the center of the railway on both approaches to the crossing.
 6. Will the relocated crossing provide an approach grade of not more than five percent prior to the level grade? Yes X No
7. If not, state the percentage of grade prior to the level grade and explain why the grade exceeds five percent.

Section 8 – Illustration of Proposed Crossing Configuration

Attach a detailed diagram, design drawing, map or other illustration showing the following:

- The vicinity of the proposed relocated crossing.
- Layout of the railway and highway 500 feet adjacent to the crossing in all directions.
- ♦ Percent of grade.
- Obstructions of view.
- Traffic control layout showing the location of the existing and proposed signage.

Describe in detail the number and type of automatic signals or other warning devices planned at the proposed relocated crossing. Please include information such as crossing surface upgrades, signage, etc., at the proposed crossing.

The proposed crossing will have a constant warning time system installed, consistent

with other crossings on the Moxee Branch Line. The project will: install two 28-foot

gates on side mounted masts with bells and flashing lights for the eastbound and

westbound traffic (both vehicular and pedestrian); and, install pedestrian gates on the

opposite side of the track (see attached plan sheet). The new crossing will be constructed

with timber ties and concrete panels (see attached plan sheet). Standard advanced

warning signs and pavement markings will be installed per the MUTCD. The project

will install 7-foot sidewalk on both sides of the roadway, and the sidewalk will have

ADA ramps with truncated domes on all four quadrants of the rail crossing.

Section 10 – Additional Information

Provide any additional project-specific information supporting the proposal, including information such as the public benefits that would be derived from relocating the crossing as proposed.

Yakima County, in coordination with the City of Yakima, WSDOT and FHWA has been

working to establish a new corridor that will reduce congestion in the Yakima Avenue

Interchange, provide redundant bridge crossings of the Yakima River, alleviate congestion on

Terrace Heights Drive and provide additional access to the region. This project will also address

flooding issues in this reach of the Yakima River and provide habitat enhancement. This new

roadway will stretch from N. 1st Street in Yakima to Keys Road in Terrace Heights. Future

phases will extend the roadway west to Fruitvale Boulevard in Yakima, and east to N.57th Street

in Terrace Heights. This roadway should have an Annual Daily Travel volume of around

20,000 on opening day.

Waiver of Hearing

The undersigned represents the Respondent in the petition to relocate a highway-rail grade crossing as described in the petition.

USDOT Crossing No.:

We have investigated the conditions at the existing crossing and the proposed relocation site. We are satisfied the conditions are the same as described by the Petitioner in this docket. We agree the crossing should be relocated and consent to a decision by the commission without a hearing.

Seattle , Washington, on the 23rd day of Dated at January , 20 20. Stephen Semenick Printed name of Respondent Signature of Respondent's Representative Manager Public Projects BNSF Railway Co. Name of Company 206-625-6152; stephen. semencic Disf. com Phone number and e-mail address 2454 Occilental Ave S. Ste 20, Scattle, WA 98134 Mailing address

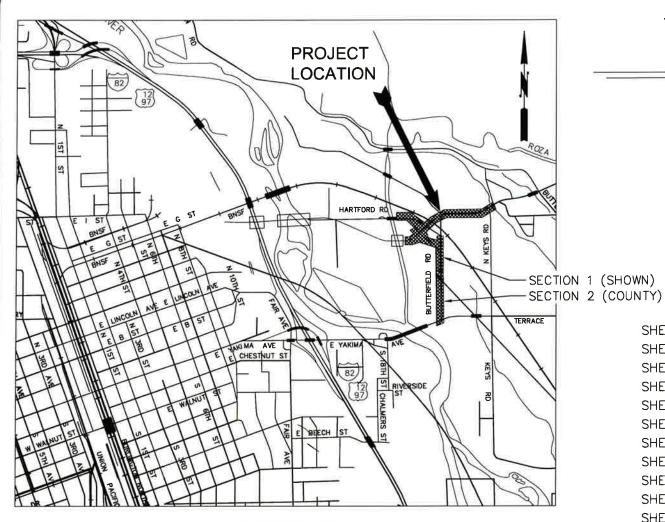
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ahim 24/20, Washington, on the Valiming ' day of Dated at 24,20 20. Nicholas Tampk Printed name of Respondent Signature of Respondent's Representative Cosic Title m Washington 1 Name of Company 507-453-9166 Phone number and e-mail address KYEAGER C HDLLC , COM WITH COPY TO-+ 111 University P. Kuy 200 901



VICINITY MAP

YAKIMA COUN

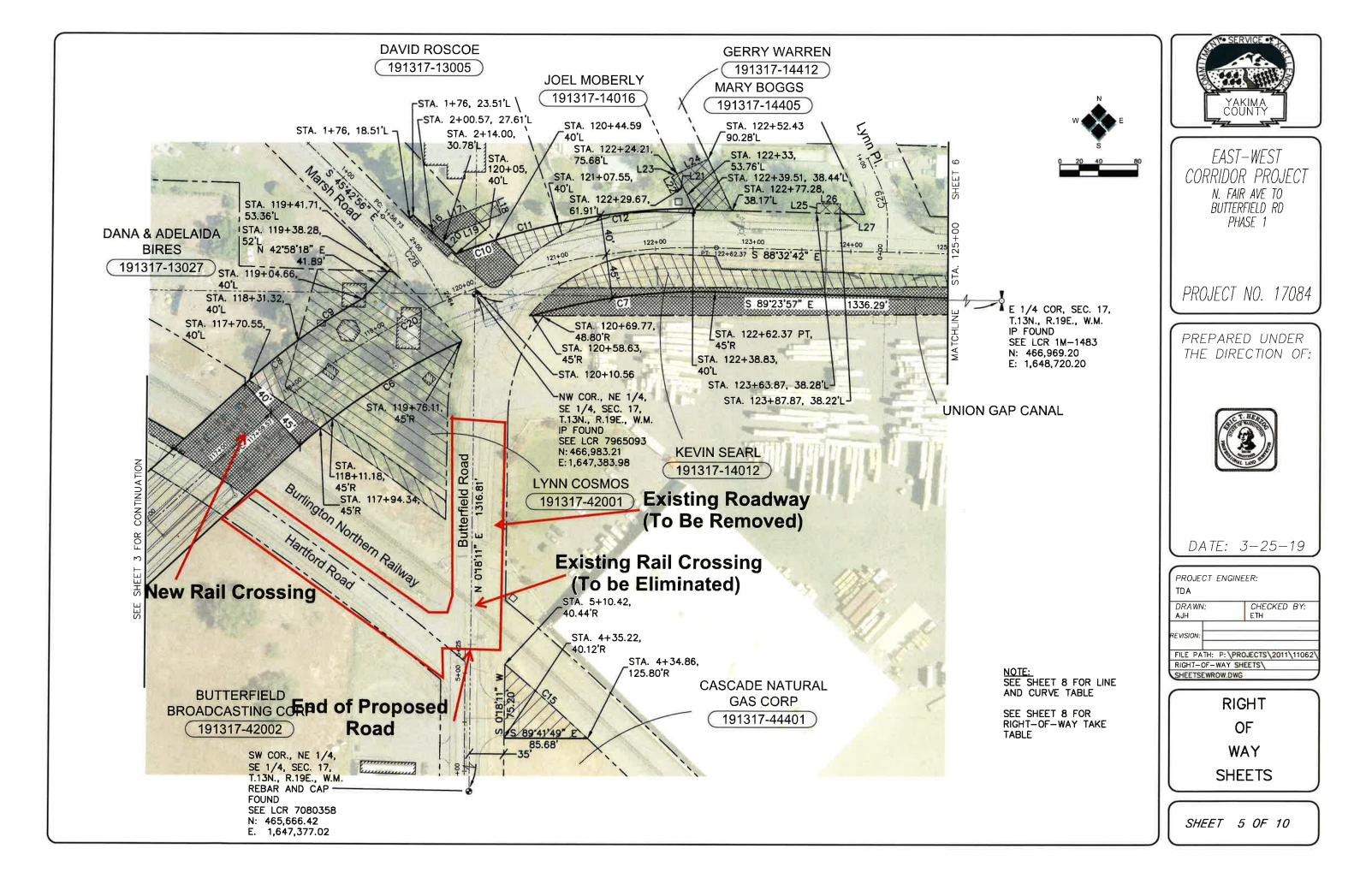
MILL PARKWAY ROZA CANAL TO KEYS PROJECT NO. XXXX APRIL 2018

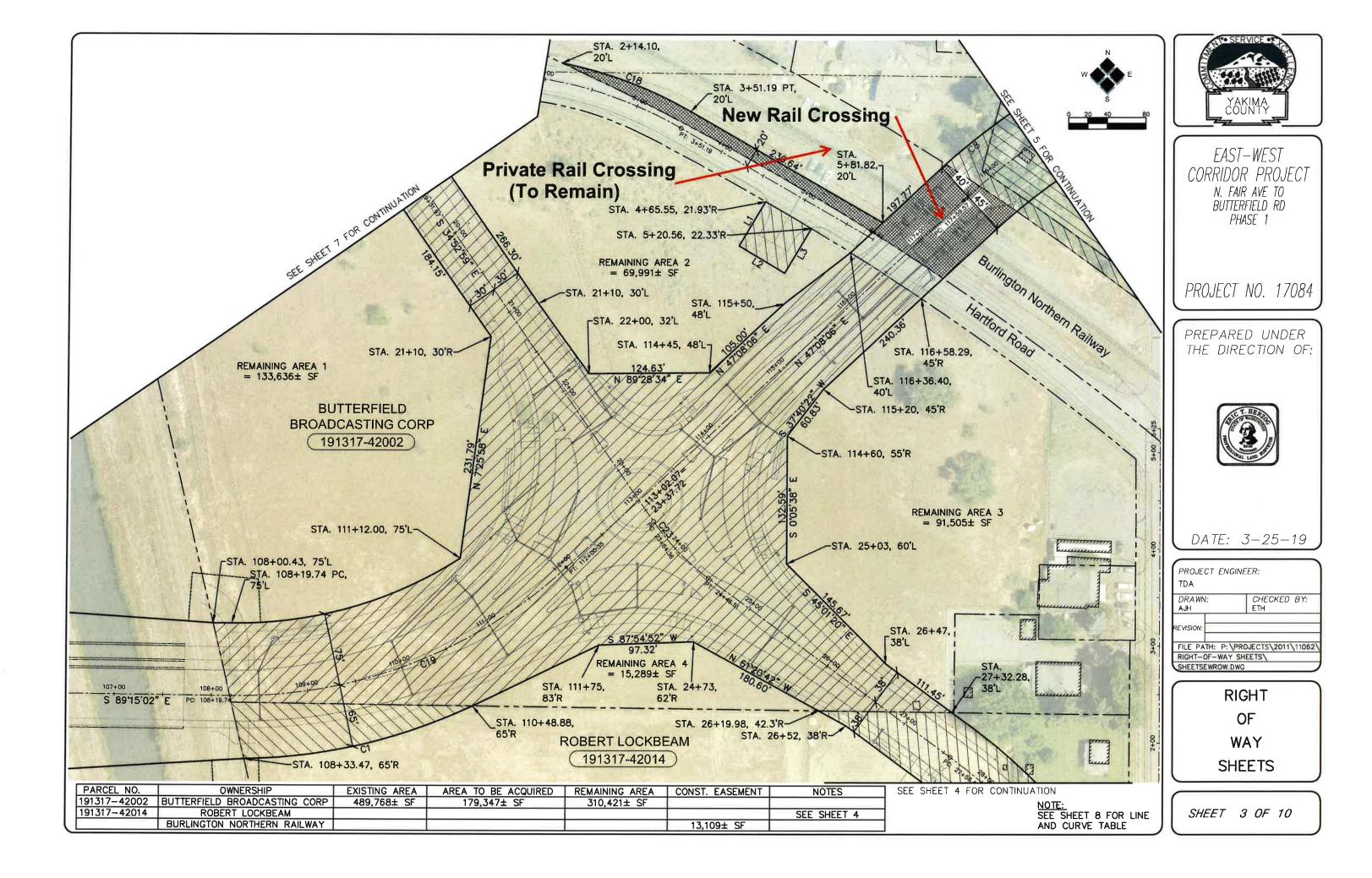
<u>SHEET INDEX</u>

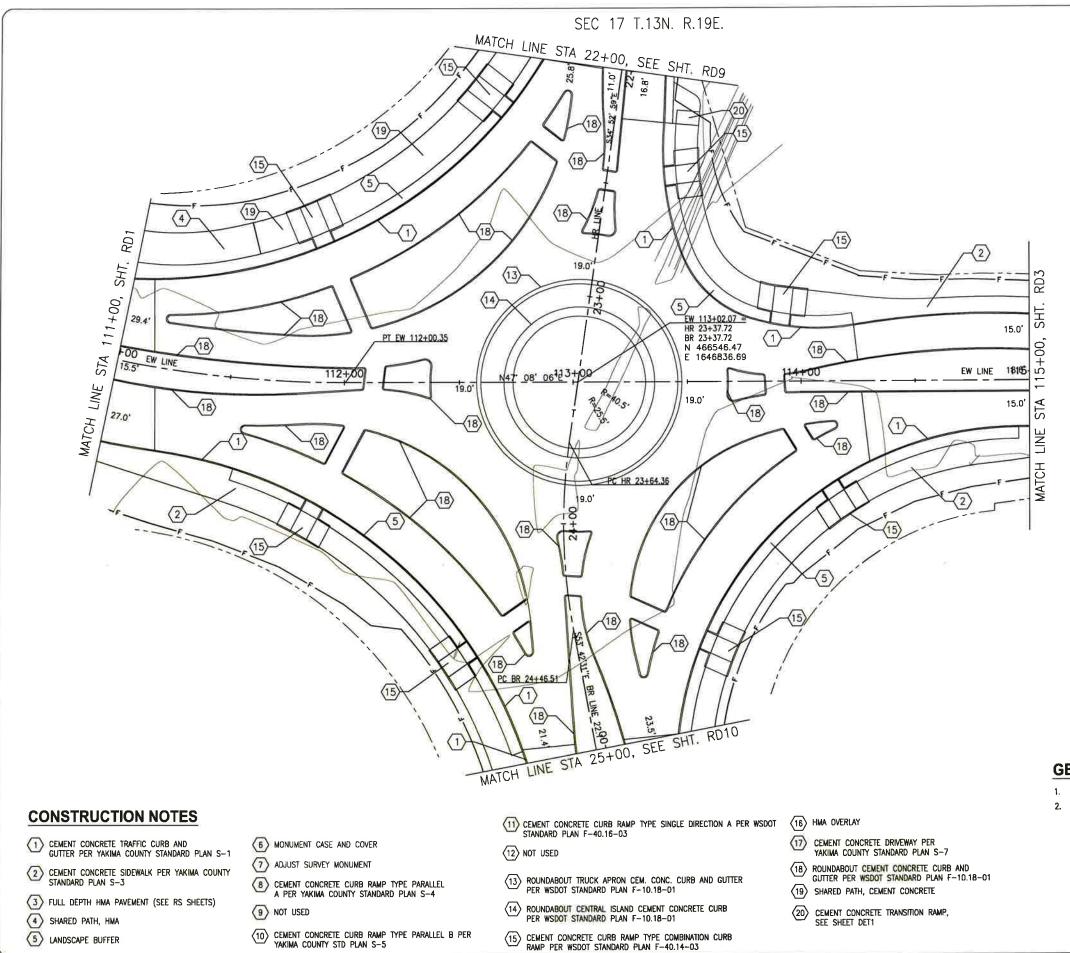
SHEET 1	CVR1
SHEET X-X	KEY1
SHEET X-X	SQ1
SHEET X-X	SP0 - SP14
SHEET X-X	RS1 – RS3
SHEET X-X	DET1
SHEET X-X	RD1 - RD14
SHEET X-X	CPJ1
SHEET X-X	RR1
SHEET X-X	IP1 – IP6
SHEET X-X	RA1 – RA4
SHEET X-X	DD1 - DD2
SHEET X-X	ST1 - ST10
SHEET X-X	CE1 - CE5
SHEET X-X	L0 – L10
SHEET X-X	IRO – IR4
SHEET X-X	IL1 – IL9
SHEET X-X	CH1 - CH17
SHEET X-X	TC1

COVER SHEET
PROJECT SHEET MAP & LEGEN
SUMMARY OF QUANTITIES
SITE PREPARATION AND TEMPO
TYPICAL ROADWAY SECTIONS
ROADWAY DETAILS
ROADWAY PLAN AND PROFILE
CONCRETE PANEL & JOINTING
RAILROAD PLAN
INTERSECTION LAYOUT PLANS
SPLITTER ISLAND PLANS
DRIVEWAY DETAILS
STORM DRAIN PLAN AND PROF
CANAL ENCLOSURE PLAN
PLANTING PLANS
IRRIGATION
ILLUMINATION PLANS
CHANNELIZATION AND SIGNING
TRAFFIC CONTROL PLANS

TY	YAKIMA
SRD	MILL PARKWAY PROJECT ROZA CANAL TO KEYS ROAD
END PORARY EROSION CONTROL E PLANS G PLANS S	PROJECT NO. XX PREPARED UNDER THE DIRECTION OF: PRELIMINARY DESIGN PROGRESS PLAN NOT FOR CONSTRUCTION LOCHNER
G PLANS	DATE: PROJECT ENGINEER: A. BUTTERS DRAWN: CHECKED BY: REVISION: CVR1 COVER SHEET
DATUM ELEVATION NGS BRASS CAP SET IN CONCRETE, INSIDE AN IRRIGATION CONTROL. BOX AT SARG HUBBARD PARK. LOCATION WEST OF A CONCRETE BENCH NEAR THE PARKING AREA. STAMPED "SARG 1990" ELEVATION: 1030.13 (NAVD 68)	SHEET 1 OF XX

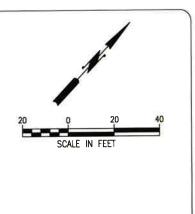






4/17/2018 2-41 P

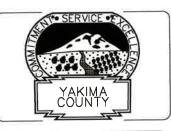
v\000013177\7_Engineering\CADD\SHEETS\13177rdwy.dwg





SEE SHEET CPJ1 FOR CONCRETE PANEL JOINT LIMITS
 SEE RA SHEETS FOR SPLITTER ISLAND DETAIL





MILL PARKWAY PROJECT roza canal to keys road

PROJECT NO. XX

PREPARED UNDER THE DIRECTION OF:

> PRELIMINARY DESIGN

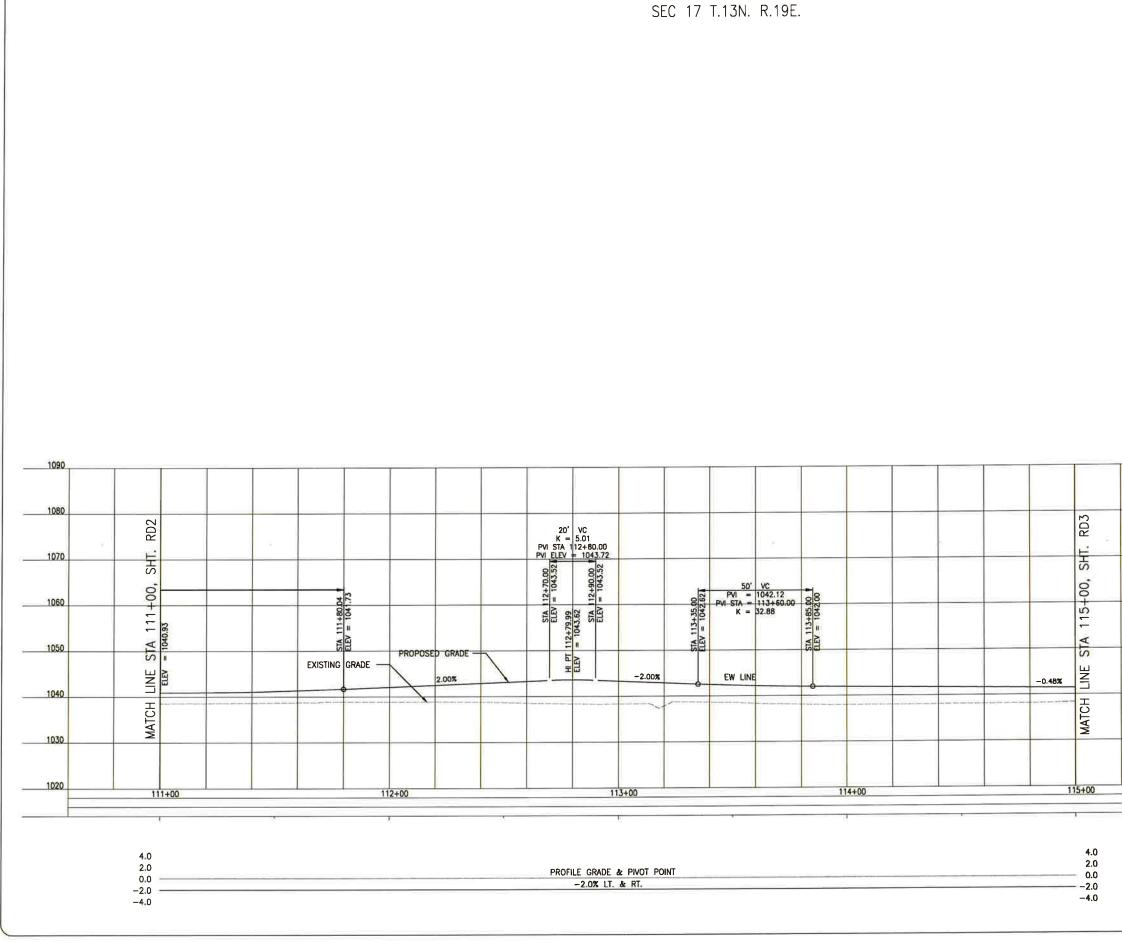
PROGRESS PLAN NOT FOR CONSTRUCTION

LOCHNER DATE:

PROJECT ENGINEER: A. BUTTERS DRAWN: CHECKED BY: REVISION:

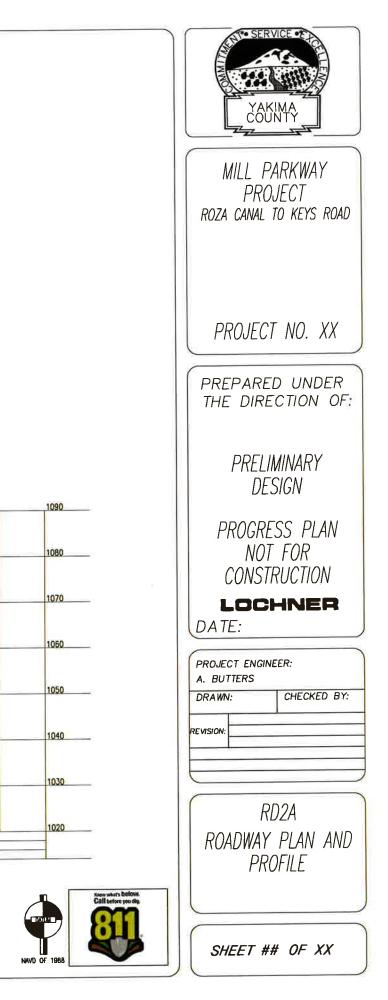
RD2 ROADWAY PLAN AND PROFILE

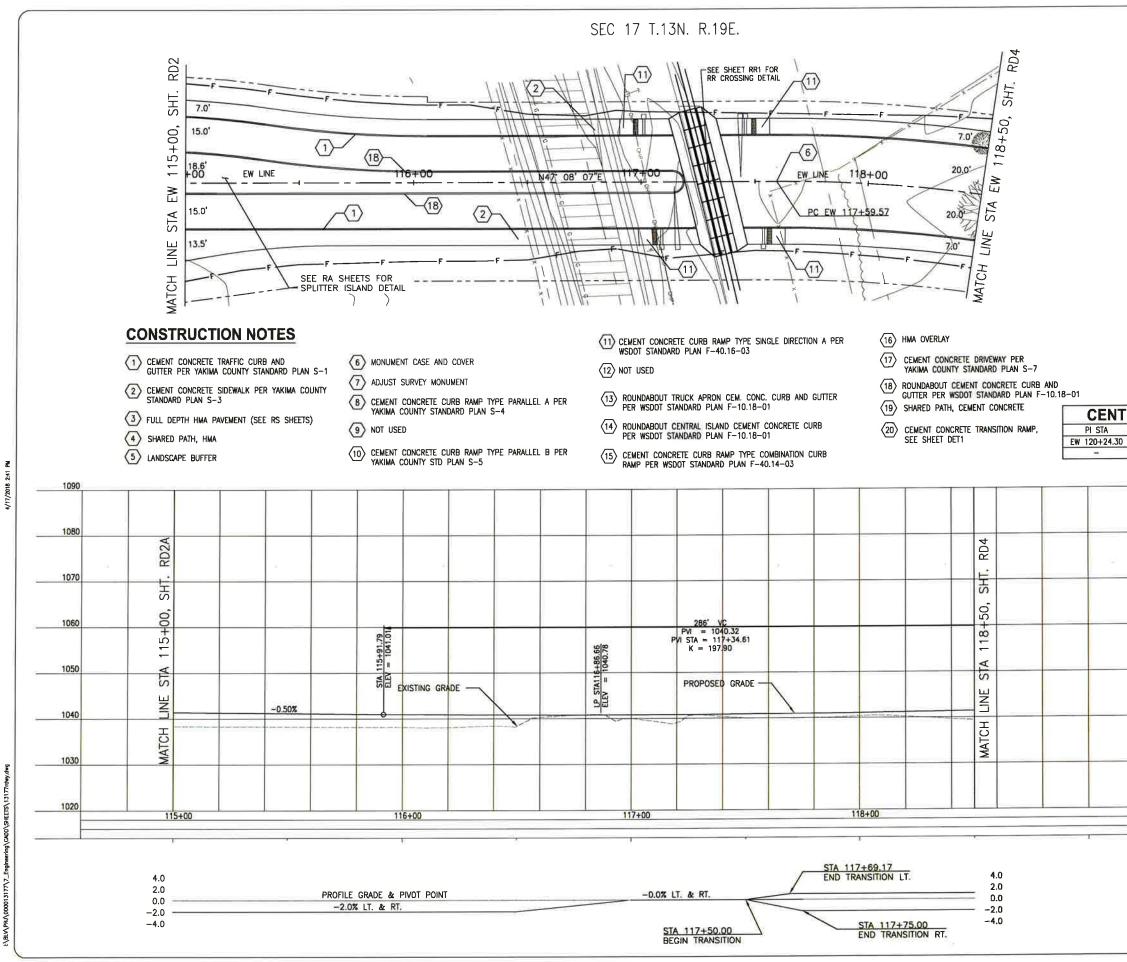
SHEET ## OF XX



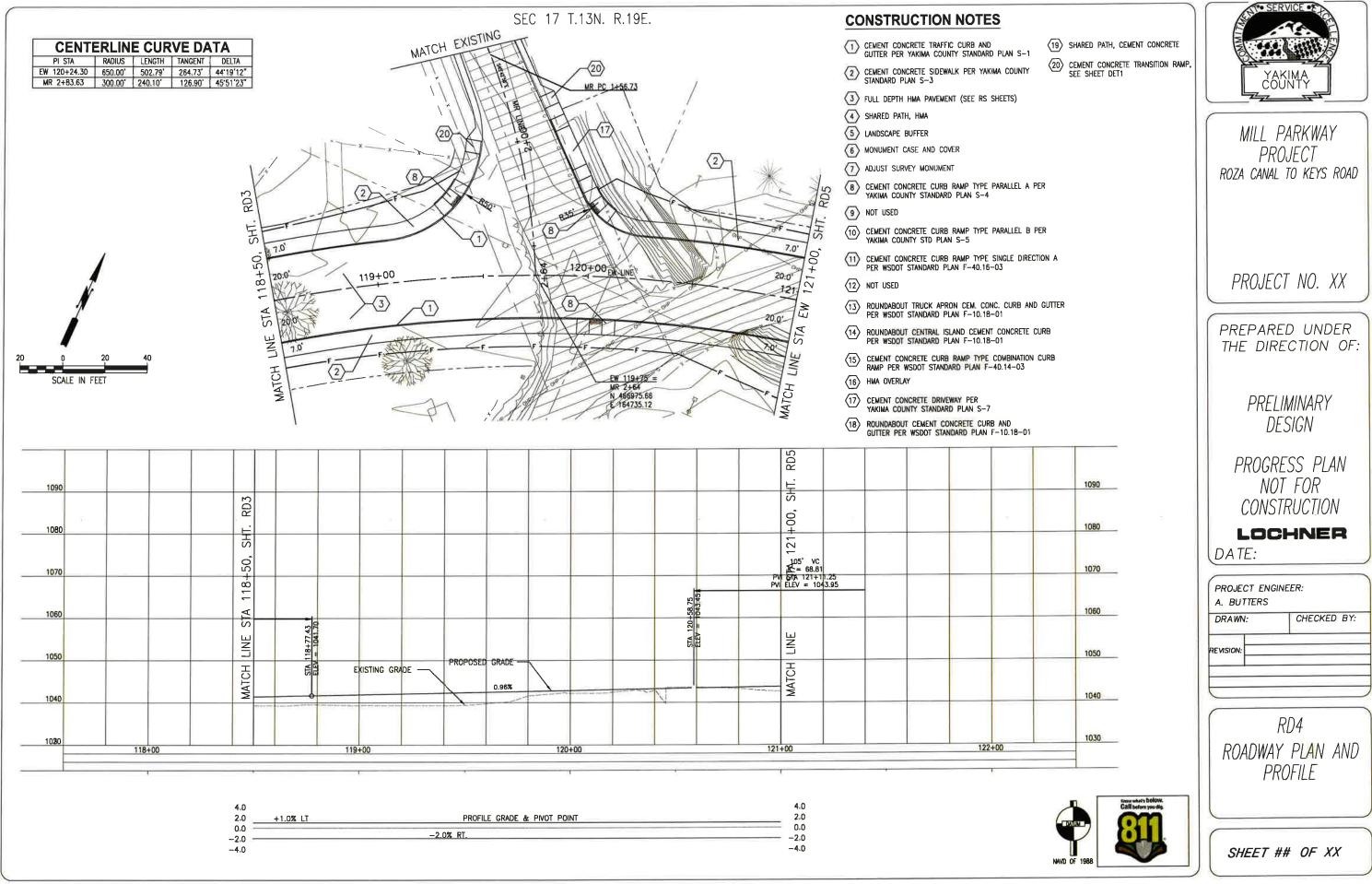
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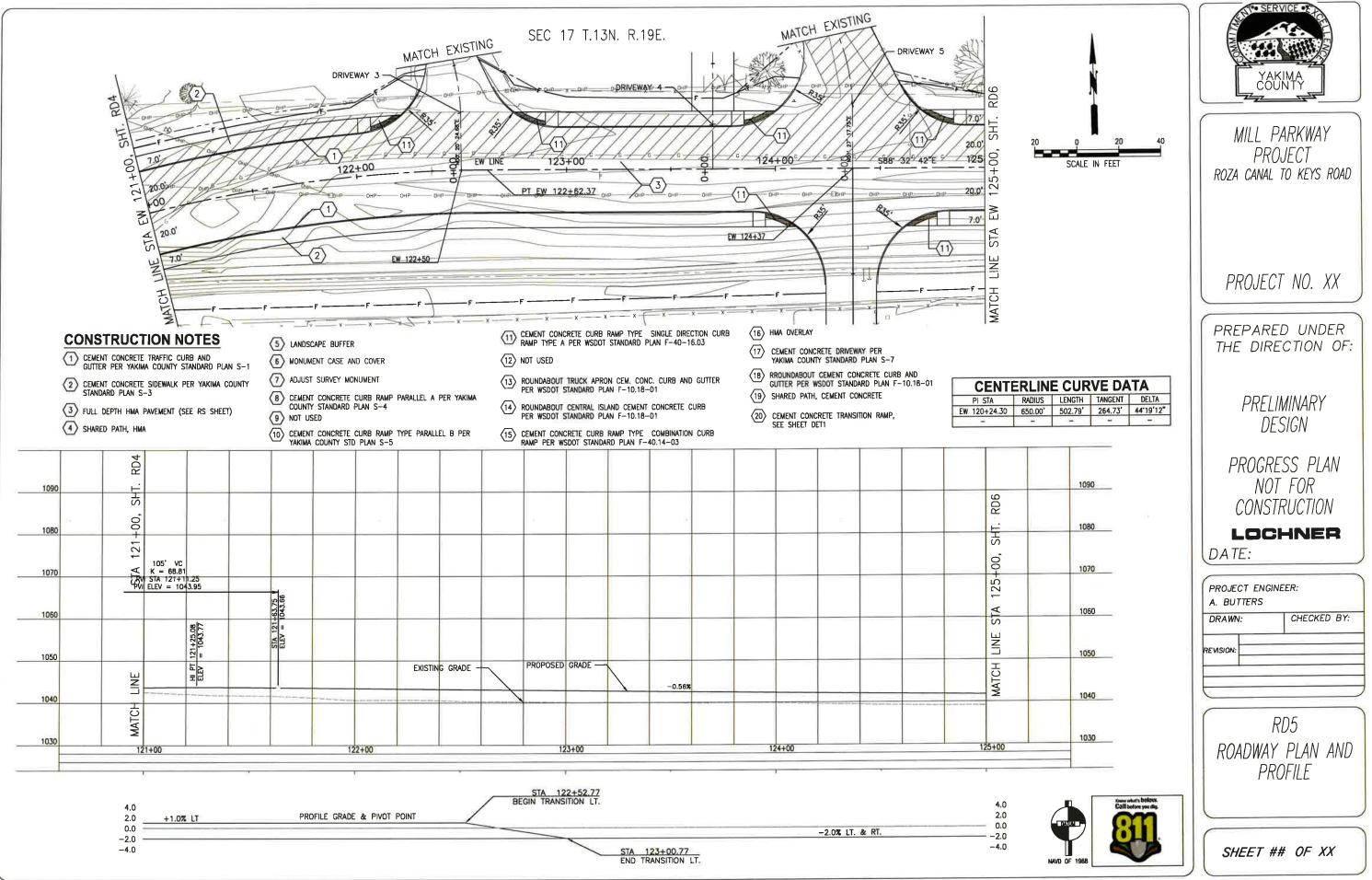


20 0 20 40 SCALE IN FEET	KILL PARKWAY PROJECT ROZA CANAL TO KEYS ROAD
	PROJECT NO. XX PREPARED UNDER THE DIRECTION OF:
RADIUS LENGTH TANGENT DELTA 650.00' 502.79' 264.73' 44'19'12" 1090	PRELIMINARY DESIGN
1080	PROGRESS PLAN NOT FOR CONSTRUCTION
1060	DATE:
1050	PROJECT ENGINEER: A. BUTTERS DRAWN: CHECKED BY: REVISION:
1030	
1020	RD3 ROADWAY PLAN AND PROFILE
NVVD OF 1988	SHEET ## OF XX



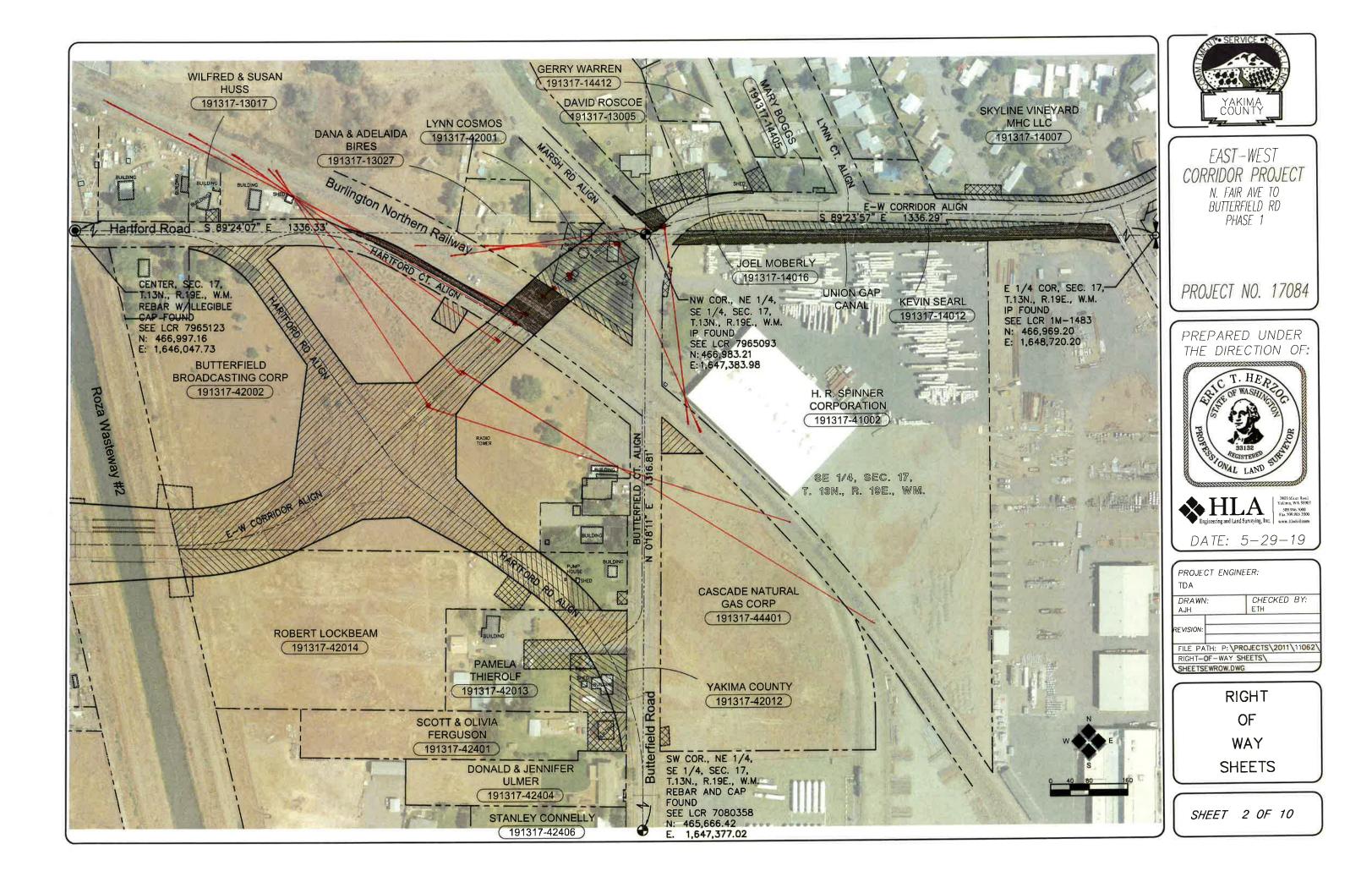
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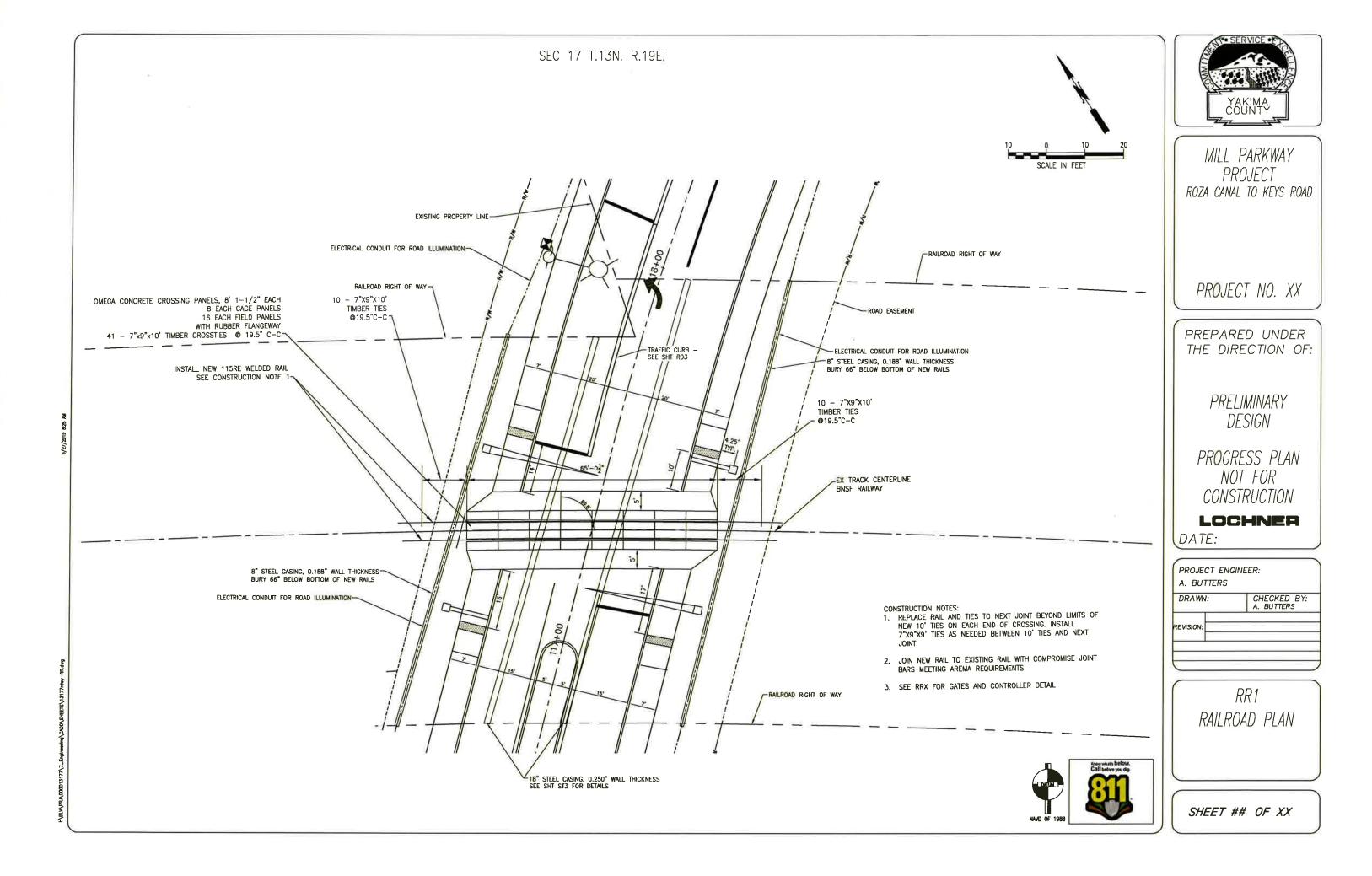
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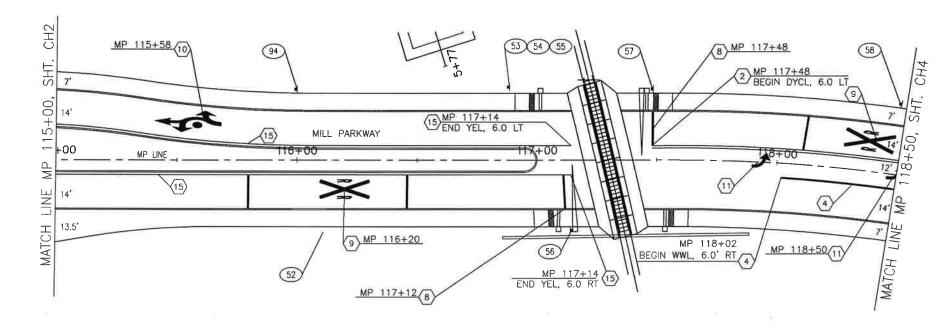
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SEC 17 T.13N. R.19E.



STRIPING NOTES

- 2 PAINTED 4" (DYCL) DOUBLE YELLOW CENTER LINE PER WSDOT STANDARD PLAN M-20.10-02
- 3 PAINTED (TWLT) TWO-WAY LEFT TURN PER WSDOT STANDARD PLAN M-20.10-02

PAINTED 4" (WLL) WHITE LANE LINE PER WSDOT STANDARD PLAN $M\!-\!20.10\!-\!02$

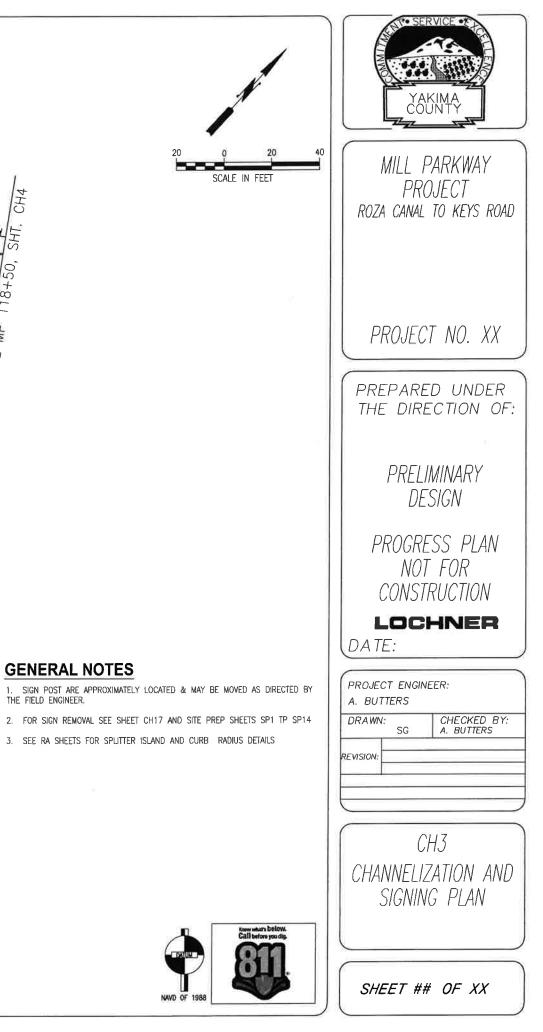
- A PAINTED 8" (WWL) WHITE WIDE LANE LINE PER WSDOT STANDARD PLAN M-20.10-02
- 5 NOT USED
- PAINTED 12" (WWDEL) WIDE WHITE DOTTED ENTRY LINE PER WSDOT STANDARD PLAN M-12.10-00
- 7 PAINTED CROSSWALK, SEE STRIPING DETAIL SHEET CH16
- PAINTED STOP LINE PER WSDOT STANDARD PLAN M-24,60-04 $\langle 8 \rangle$
- PAINTED RAILROAD CROSSING SYMBOL PER WSDOT STANDARD PLAN (9) M-11.10-02
- PAINTED ROUNDABOUT TRAFFIC ARROW PER WSDOT $\langle 10 \rangle$ STANDARD PLAN M-24.50-00
- 11 PAINTED TRAFF M-24.40-02 PAINTED TRAFFIC ARROW PER WSDOT STANDARD PLAN
- $\fbox{12} \begin{array}{c} \mbox{PAINTED 6' TRAFFIC LETTER PER WSDOT STANDARD PLAN} \\ \mbox{M-80.10-01} \end{array}$
- 13 PAINTED YIELD LINE SYMBOL PER WSDOT STANDARD PLAN M-24.60-04
- 14 PAINTED 8" (WEL) WHITE EDGE LINE OR (WWL) WIDE LANE LINE PER WSDOT STANDARD PLAN M-20.10-02
- (15) PAINTED 4" (YEL) YELLOW EDGE LINE PER WSDOT STANDARD PLAN M-20.10-02
- (16) NOT USED
- 17 PAINTED 4" (WEL) WHITE EDGE LINE PER WSDOT STANDARD PLAN M-20.10-02

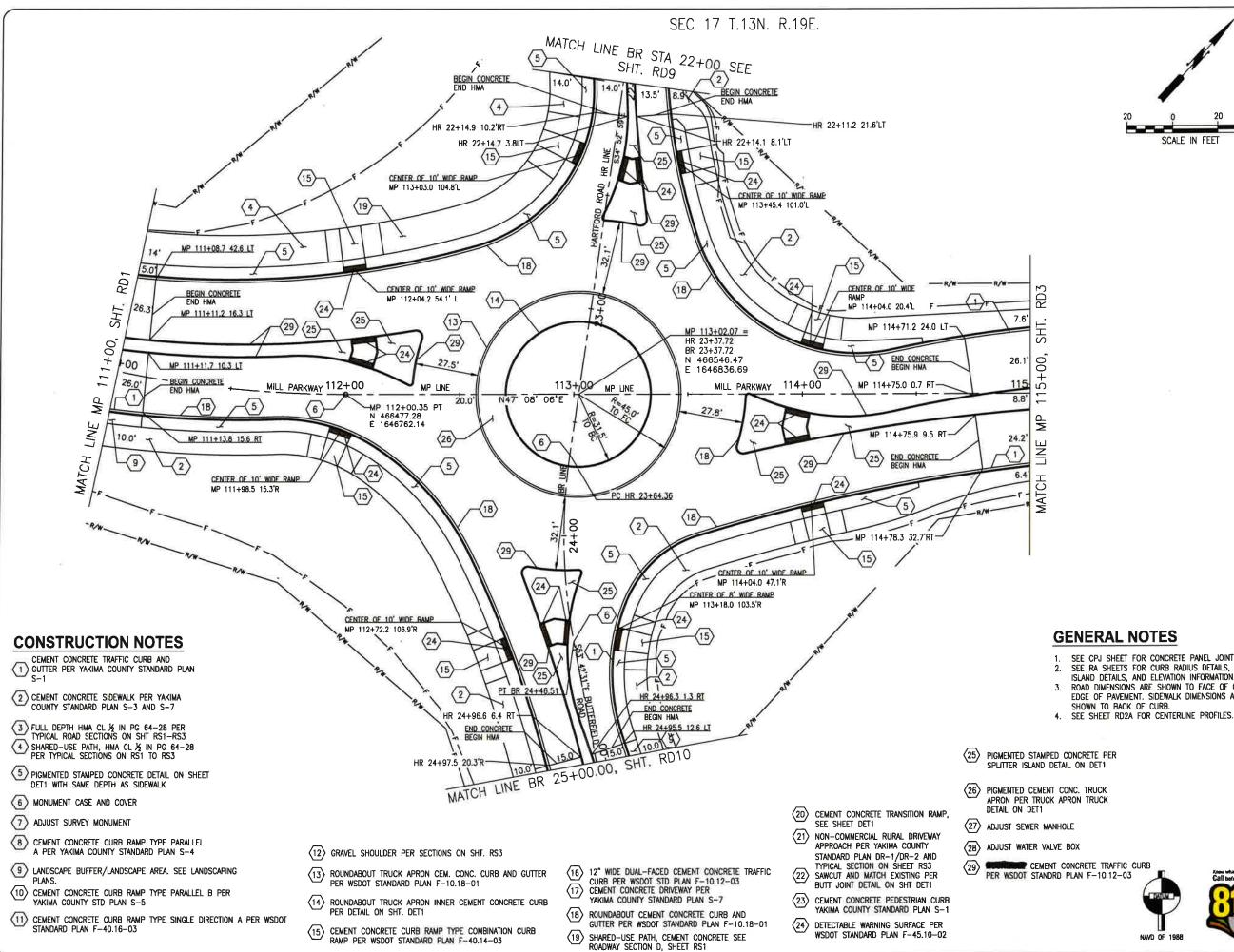
SIGNING SCHEDULE									
\supset	ALIGNMENT	STATION	OFFSET	NEW/EXST	MUTCD CODE	SIZE (INCHES)	DESCRIPTION	REMARKS	
52	MP	116+10	32' RT	NEW	W10-1	36dia	RAILROAD WARNING		
53	MP	116+89	30' LT	NEW	W16-8P	36x18	MILL PARKWAY/ HARTFORD RD		
54	MP	116+89	30' LT	NEW	W2-6	30X30	INTERSECTION WARNING		
55	MP	116+89	30' LT	NEW	W13-1P	18x18	ADVISORY SPEED (15)		
56	MP	117+17	29' RT	NEW	R15-1	48x9	GRADE CROSSING		
57	MP	117+48	28' LT	NEW	R15-1	48x9	GRADE CROSSING		
58	MP	118+48	28' LT	NEW	W10-1	36dia	RAILROAD WARNING		
94	MP	116+00	30' LT	NEW	R3-8(MOD)*	24X30	LANE CONTROL ARROW		

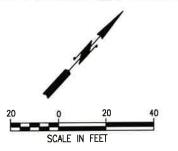
*WSDOT SIGN CODE

GENERAL NOTES

THE FIELD ENGINEER,

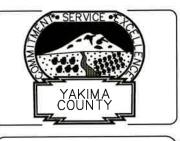






SEE CPJ SHEET FOR CONCRETE PANEL JOINT LIMITS. SEE RA SHEETS FOR CURB RADIUS DETAILS, SPLITTER ISLAND DETAILS, AND ELEVATION INFORMATION. ROAD DIMENSIONS ARE SHOWN TO FACE OF CURB OR EDGE OF PAVEMENT. SIDEWALK DIMENSIONS ARE





MILL PARKWAY PROJECT STAGE 1B ROZA CANAL TO KEYS ROAD

PROJECT NO. 3446

PREPARED UNDER THE DIRECTION OF:

FINAL DESIGN



DATE: JAN. 2020

PROJECT ENGINEER: A. BUTTERS

DRAWN: MAS

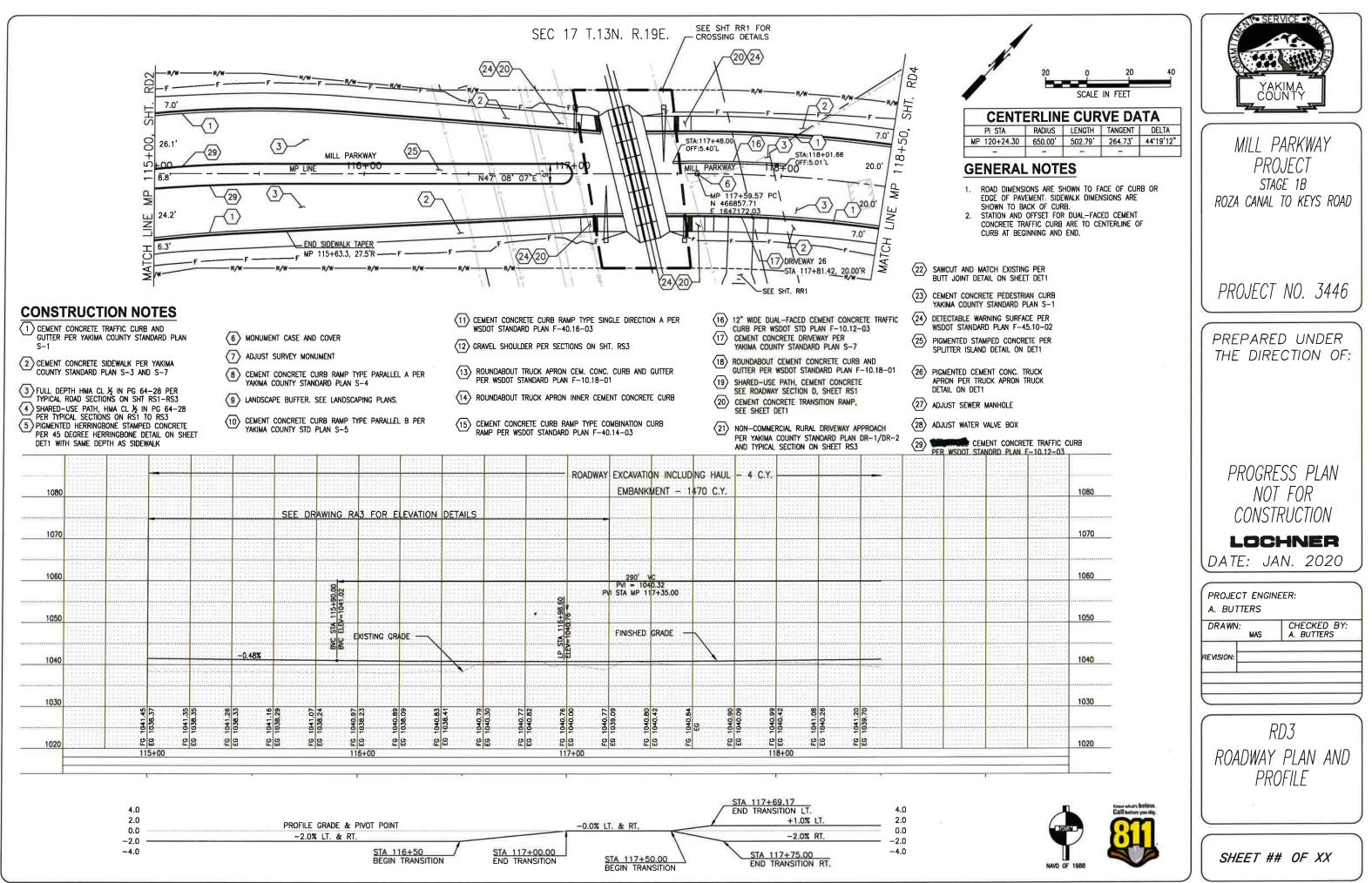
REVISION

CHECKED BY: A. BUTTERS

RD2 ROADWAY PLAN AND

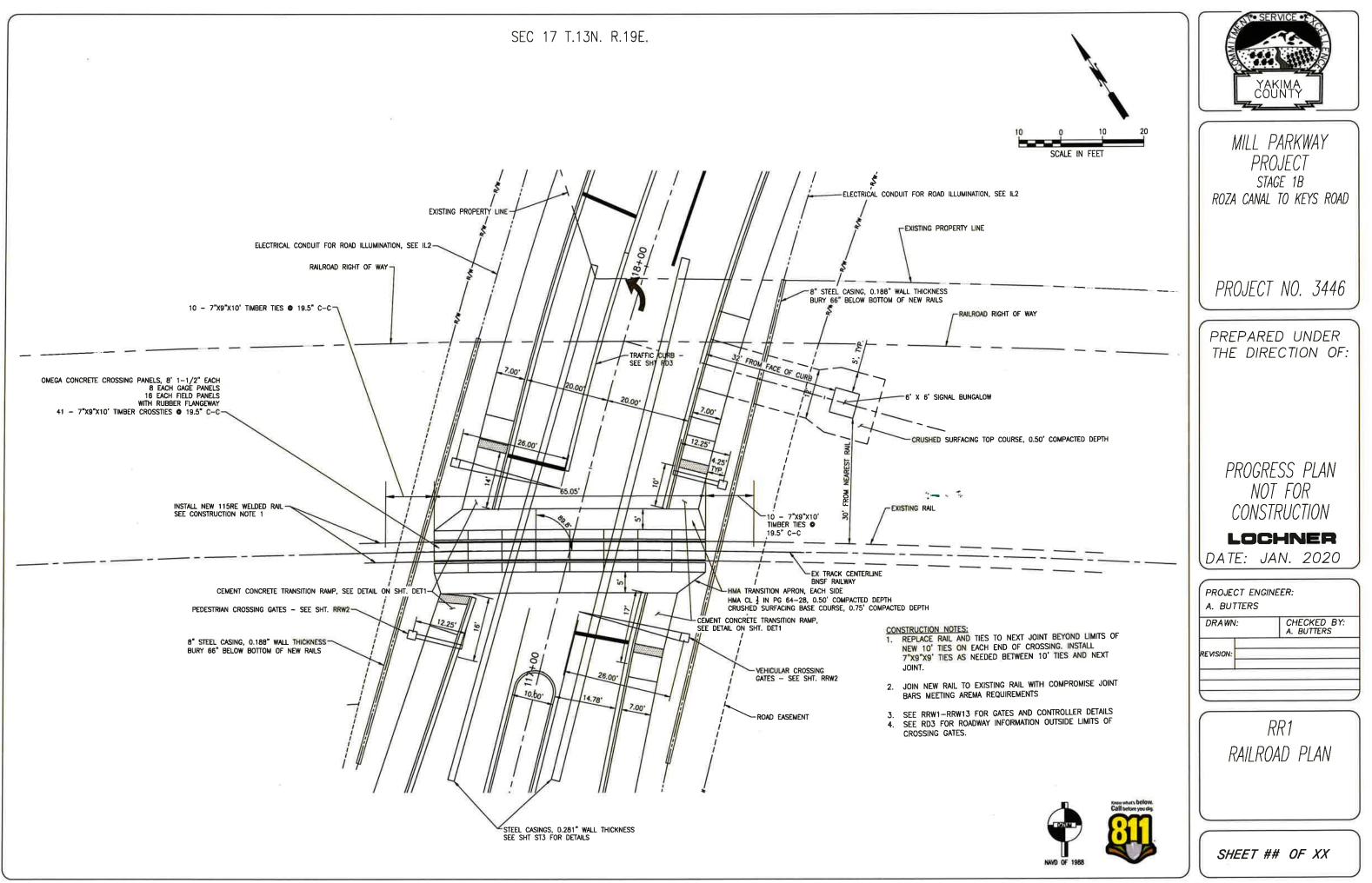
PROFILE

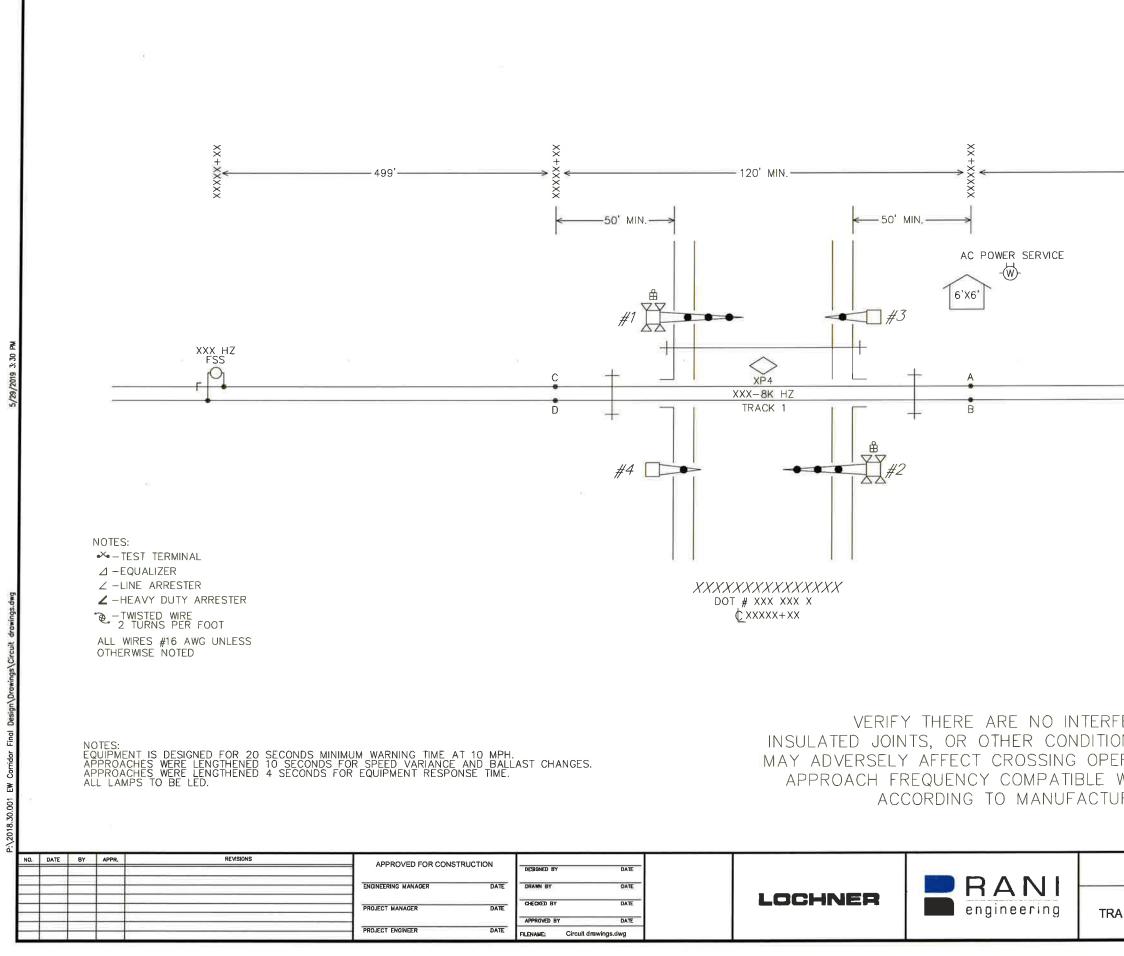
SHEET ## OF XX



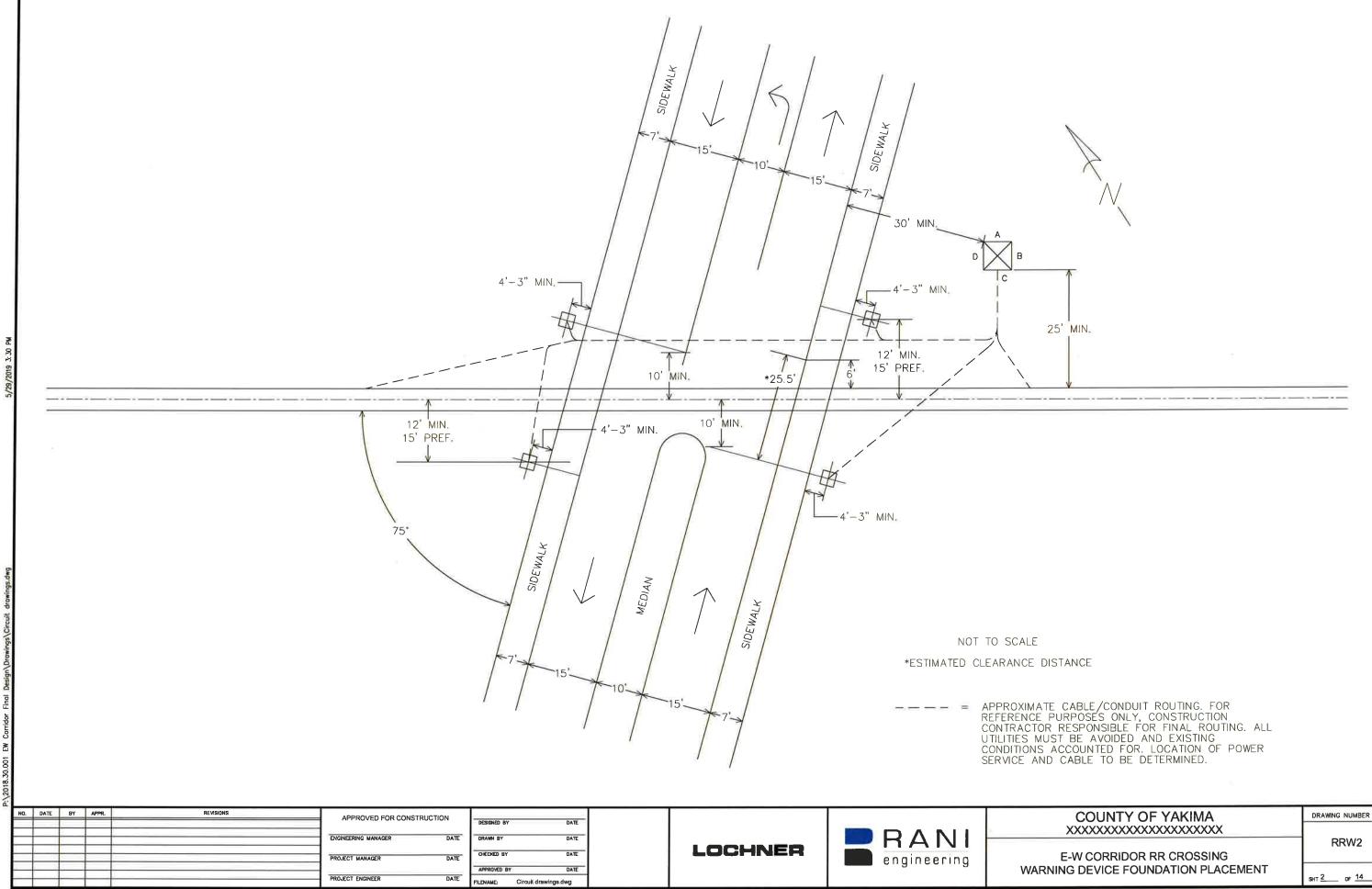
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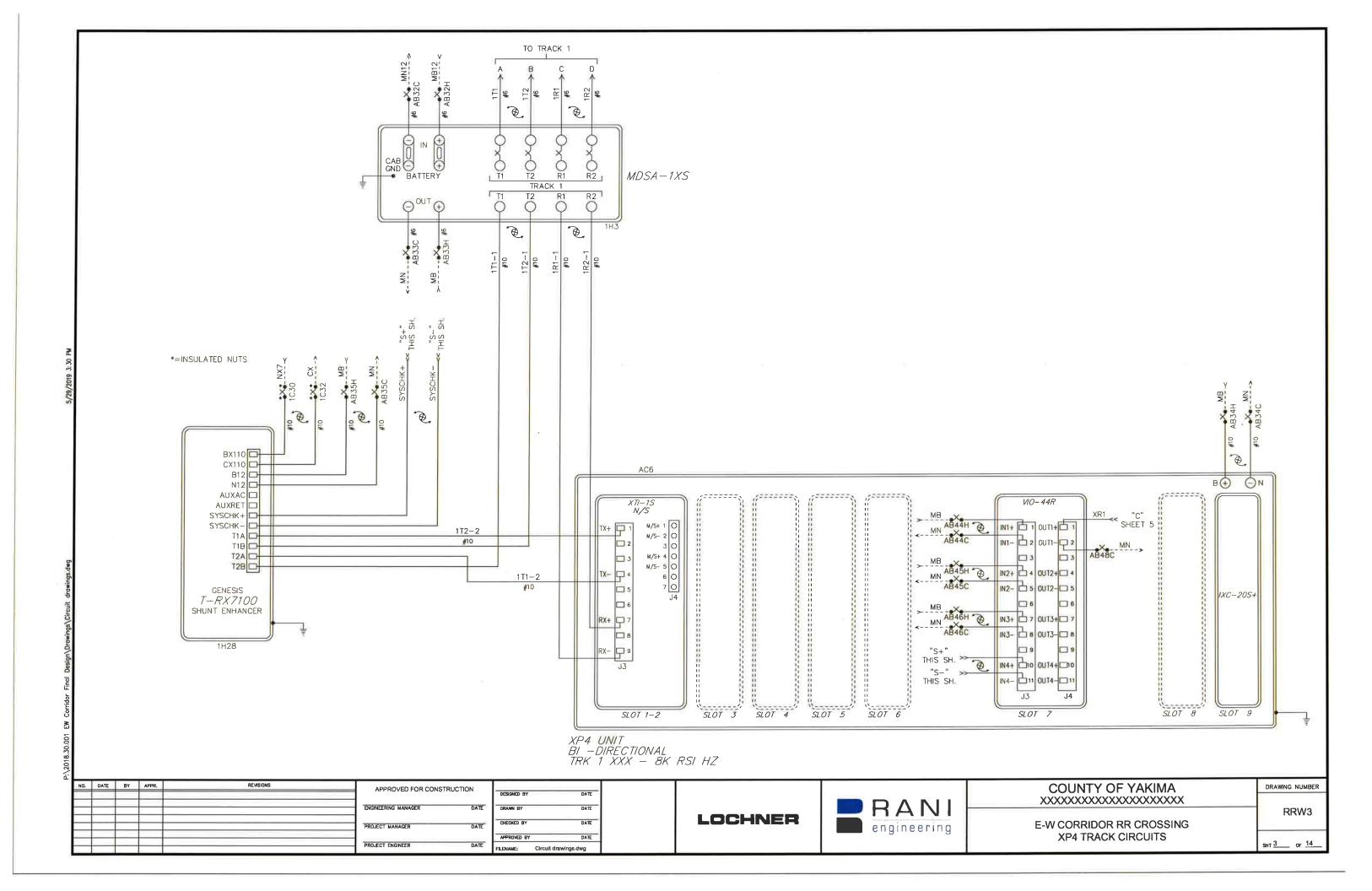




× +		
- 499'		
XXX HZ FSS		
ERING TRACK CIRCUITS, NS WITHIN THE APPROACH THAT RATION. CONTRACTOR TO SELECT WITH EXISTING CONDITIONS AND RER SPECIFICATIONS.		
COUNTY OF YAKIMA	DRAWING NUMBER	
E-W CORRIDOR RR CROSSING	RRW1	
IN DETECTION CIRCUIT AND WARNING DEVICE LAYOUT	знт <u>1</u> ог <u>14</u>	



COUNTY OF YAKIMA	DRAW
E-W CORRIDOR RR CROSSING ARNING DEVICE FOUNDATION PLACEMENT	янт <u>2</u>



APPLICATION SOFTWARE INFO								
TYPE			RED	UND	ANT			
NAME		1	r_1.	_1i_	1×_	a		
CONFIGURATION	1							
CHECKSUM	D8AE							
CRC				3A4(A40			
С	ΉA	SS.	IS	ID				
DIP NO.	1	2	3	4	5	6	7	8
SHUNT	Х	Х	Х	Х	1	X		
CHASSIS ID DECIMAL 2								
CHASSIS ID DECIMAL 2								

I = TAB INTACT X = TAB PUNCHED OUT

VITAL I/O								
	SLOT 7 INPUTS							
INPUT #	NAME	FUNCTION						
INPUT 1	S7_IN1_AUX1	AUX/CWE For MDR1						
INPUT 2	S7_IN2_AUX2	AUX/CWE For MDR2						
INPUT 3	S7_IN3_AUX3	AUX/CWE For MDR3						
INPUT 4	S7_IN4_AUX1	AUX/CWE For MDR1						
	SLOT 7 OUT	TPUTS						
OUTPUT #	NAME	FUNCTION						
OUTPUT 1	S7_OUT1_MDR1	RELAY OUTPUT-MDR1						
OUTPUT 2	S7_OUT2_MDR2	RELAY OUTPUT-MDR2						
OUTPUT 3	S7_OUT3_MDR3	RELAY OUTPUT-MDR3						
OUTPUT 4	S7_OUT4_ISL1	RELAY OUTPUT-ISL1						

PROGRAM VERSION 5.9 OR LATER *=FIELD ADJUSTMENT TO BE MADE ACCORDING TO THE XP4 INSTRUCTION MANUAL 100323-010 AH0 & SUPPLEMENTS.

BASIC TRACK SETUP						
ADJUSTMENT NAME	TRACK 1					
ISLAND ASSIGNMENT	ISL1_ASSIGN					
APPROACH FREQUENCY (HZ)	XXX HZ					
APPROACH LENGTH (FEET)	499					
MASTER/SLAVE	MASTER					
UNI/BI	BI					
RX ADJUST	100					
TCA (TRANSMITTER CHECK)	*					
LIA (LUMPED IMPEDANCE)	*					
ADVANCED APR. CAL	INACTIVE					
NBS COMP RX	*					
AUTO RX	ENABLE					
MD TIMER ENABLE	DISABLE					
MD TIMER DELAY (MIN.)	10					
LOS TIME (SEC.)	16 SEC.					
IJ-LOS TIME (SEC.)	5 SEC.					
FALSE SHUNT ENABLE	DISABLE					
FALSE SHUNT RX	0					
FALSE SHUNT DELAY (MIN.)	10					
APPROACH RELEASE ENABLE	DISABLE					
APPROACH RELEASE RX	0					
APPROACH RELEASE DELAY (MIN.)	10					
NRML_SHRT_VRYSHRT	NRML					
ISLAND SETUP						
TRACK #	TRACK 1					
FREQUENCY (HZ)	8000 HZ					
ISLAND ENABLE	ENABLE					
FAULT DELAY	1					
LOS COUNT (SEC.)	2.0					
MAINTENANCE MENU						
TRACK #	TRACK 1					
ENABLE/DISABLE	ENABLE					
DISABLE TIMEOUT	*					
BALLAST COMP.	*					
PHASE COMP,	*					

NOTE: DL = DEFAULT LEVEL NA = NON APPLICABLE

MDR SETUP							
MDR #	MDR 1	MDR 2	MDR 3				
WARNING TIME (SECS.)	30	99	99				
CONSTANT WARNING (CW) OR MOTION DETECTOR (MD)	CW	MD	MD				
TRACK ASSIGN	1	1	1				
TRACK OFFSET DISTANCE (FEET)	0	0	0				
MD-RESTART RX	*0	*0	*0				
SUDDEN SHUNT ZONE RX	0	0	0				
POST JOINT	ENABLE	ENABLE	ENABLE				
POST JOINT RX	15	15	15				
POST JOINT DELAY (SECS.)	15	15	15				
POSITIVE START	DISABLE	DISABLE	DISABL				
POSITIVE START RX	0	0	0				
POSITIVE START ACTIVE TIME (MIN.)	0	0	0				
AUX RECOVERY DELAY (SECS.)	0	0	0				
CWE-WT	80	80	80				

NOTE:

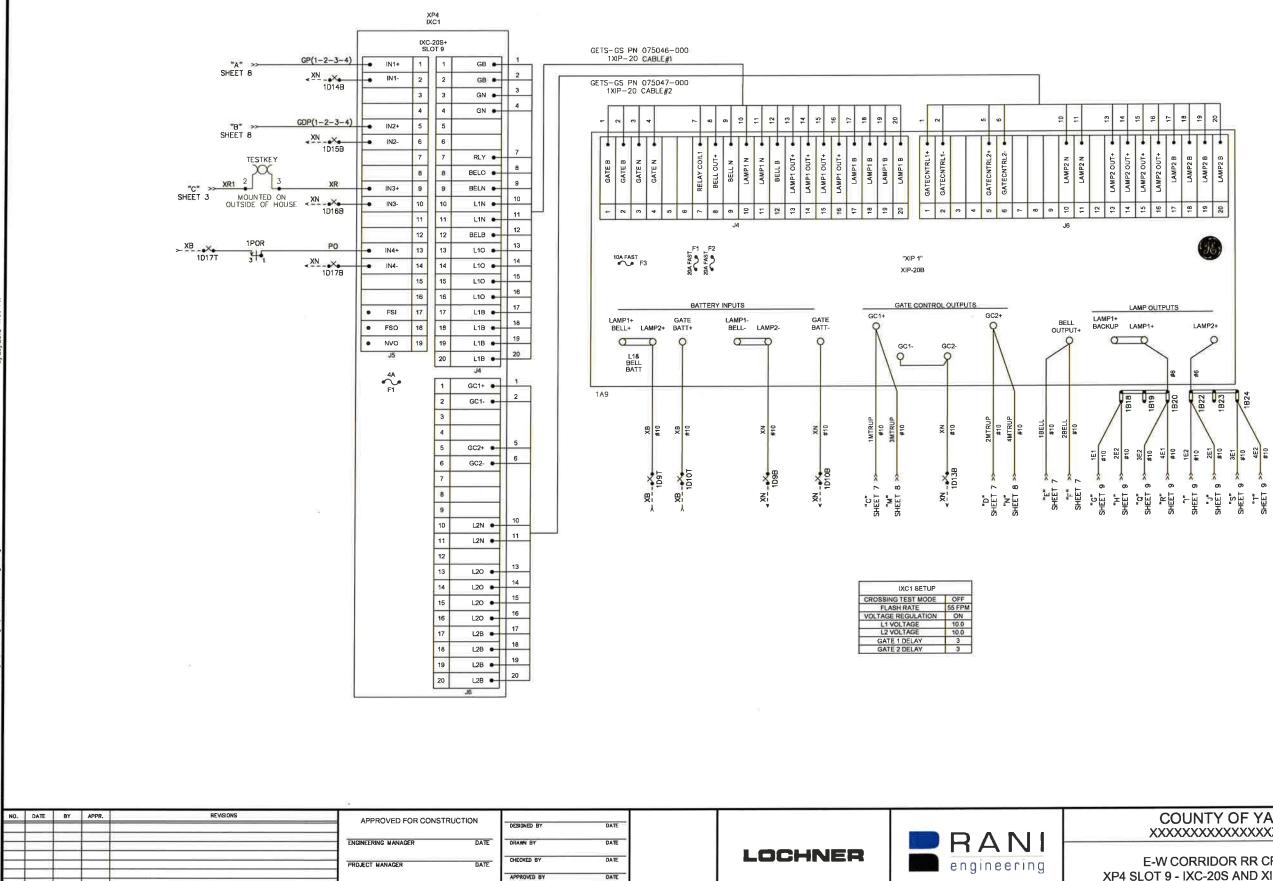
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THESE ARE DEFAULT VALUES. FIELD ASSIGNABLE.

										_
NO.	DATE	BY	APPR.	REVISIONS	APPROVED FOR CONSTRUCTION					
					APPROVED FOR CONSTRUCTION	DESIGNED BY DATE				
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COUNTY OF YAKIMA	DRAWING NUMBER
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E-W CORRIDOR RR CROSSING	RRW4
XP4 PROGRAM CONFIGURATION	SHT <u>4</u> of <u>14</u>



PROJECT ENGINEER

DATE

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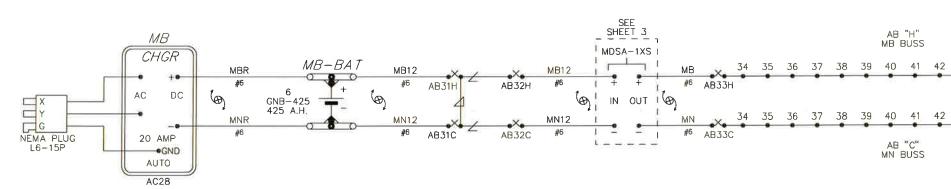
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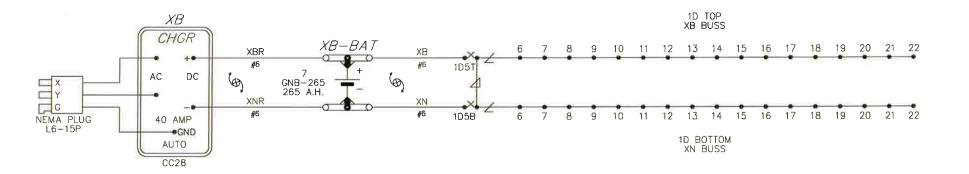
COUNTY OF YAKIMA

E-W CORRIDOR RR CROSSING XP4 SLOT 9 - IXC-20S AND XIP-20B CIRCUITS RRW5

DRAWING NUMBER

SHT 5 OF 14





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00.001 EW Corridor Final Design/Drawings/Circuit drawings.dwg

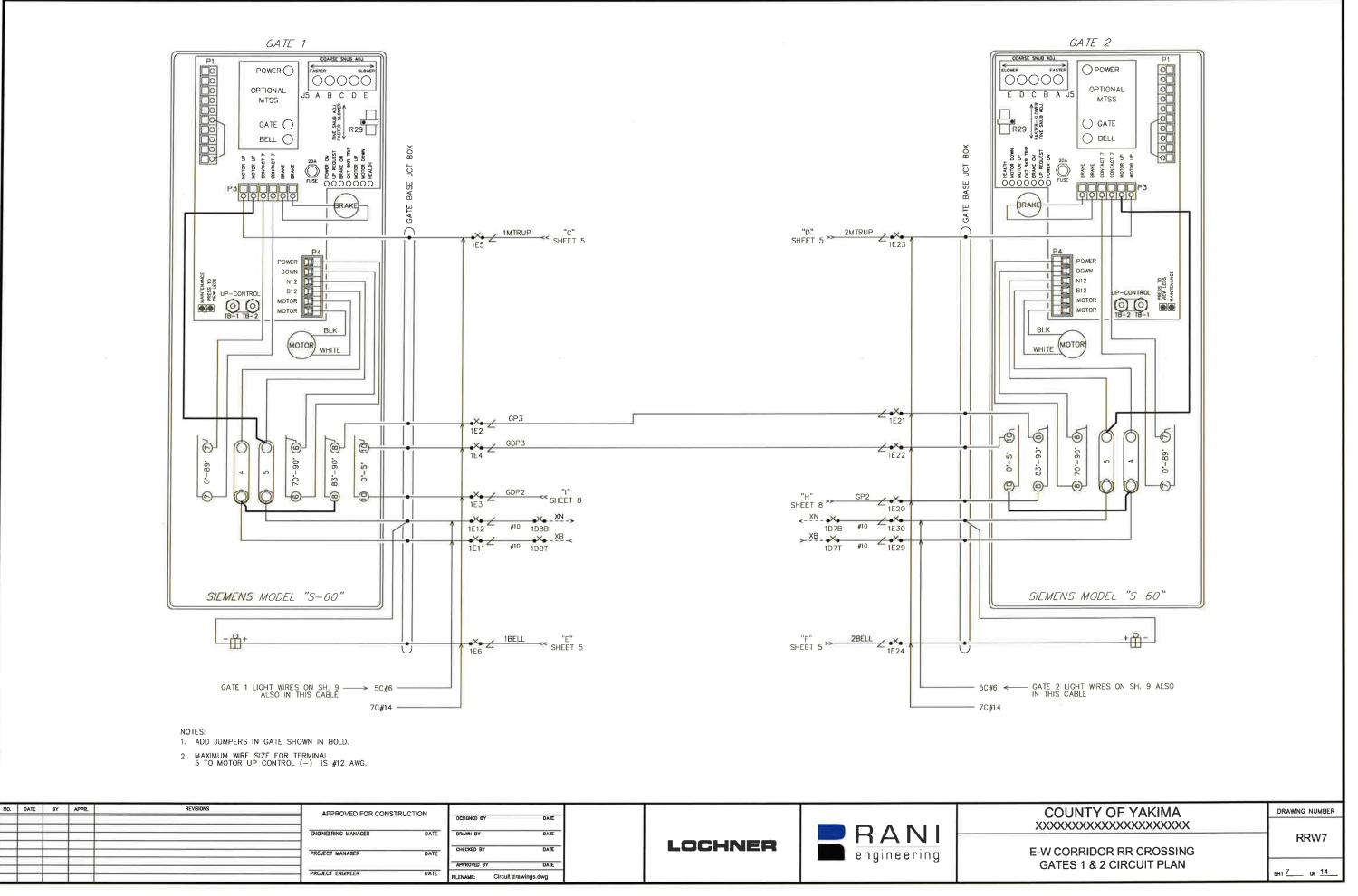
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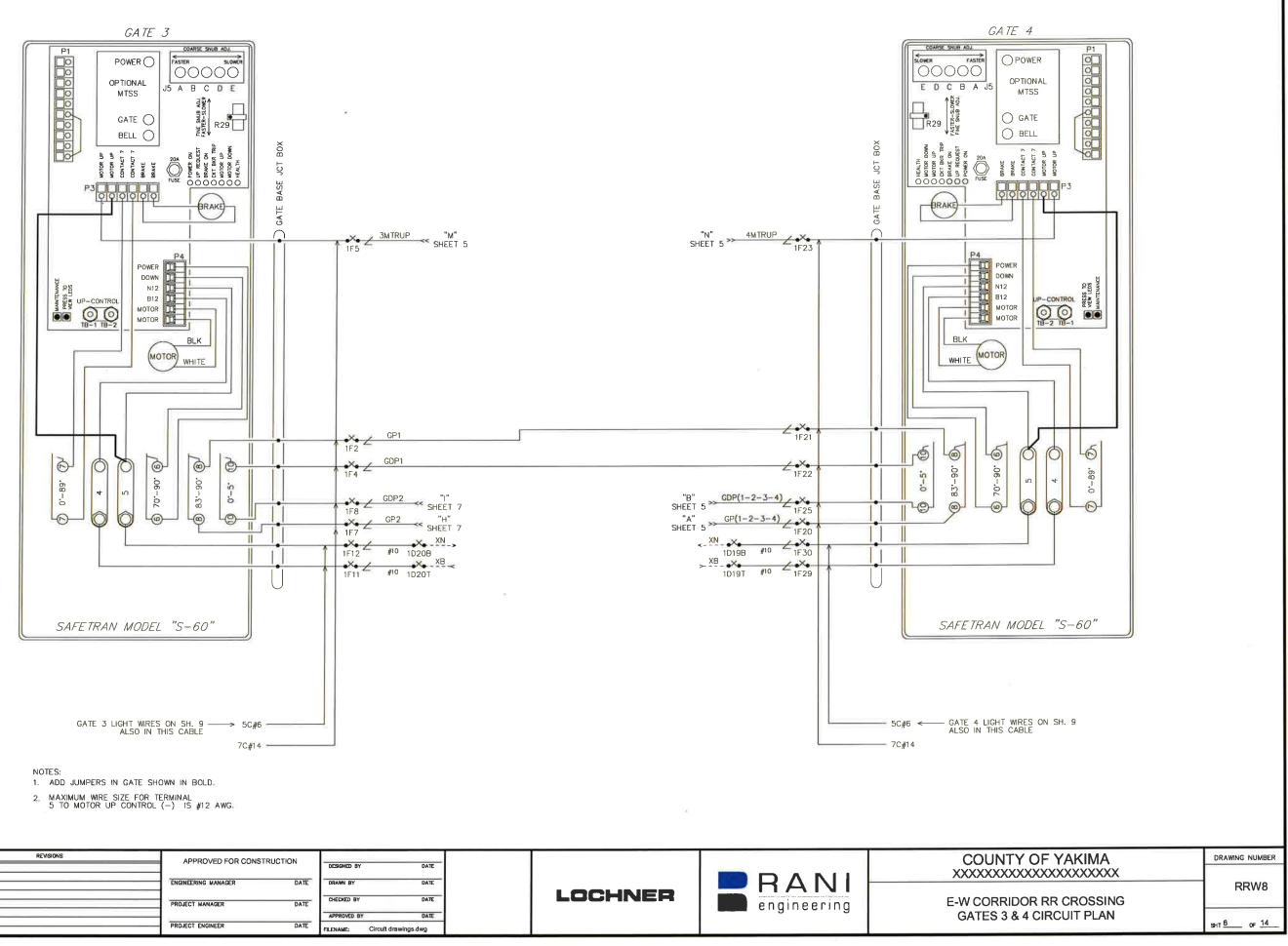
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E-W CORRIDOR RR CROSSING	RRW6		
BATTERY CIRCUITS	SHT <u>6 of 14</u>		

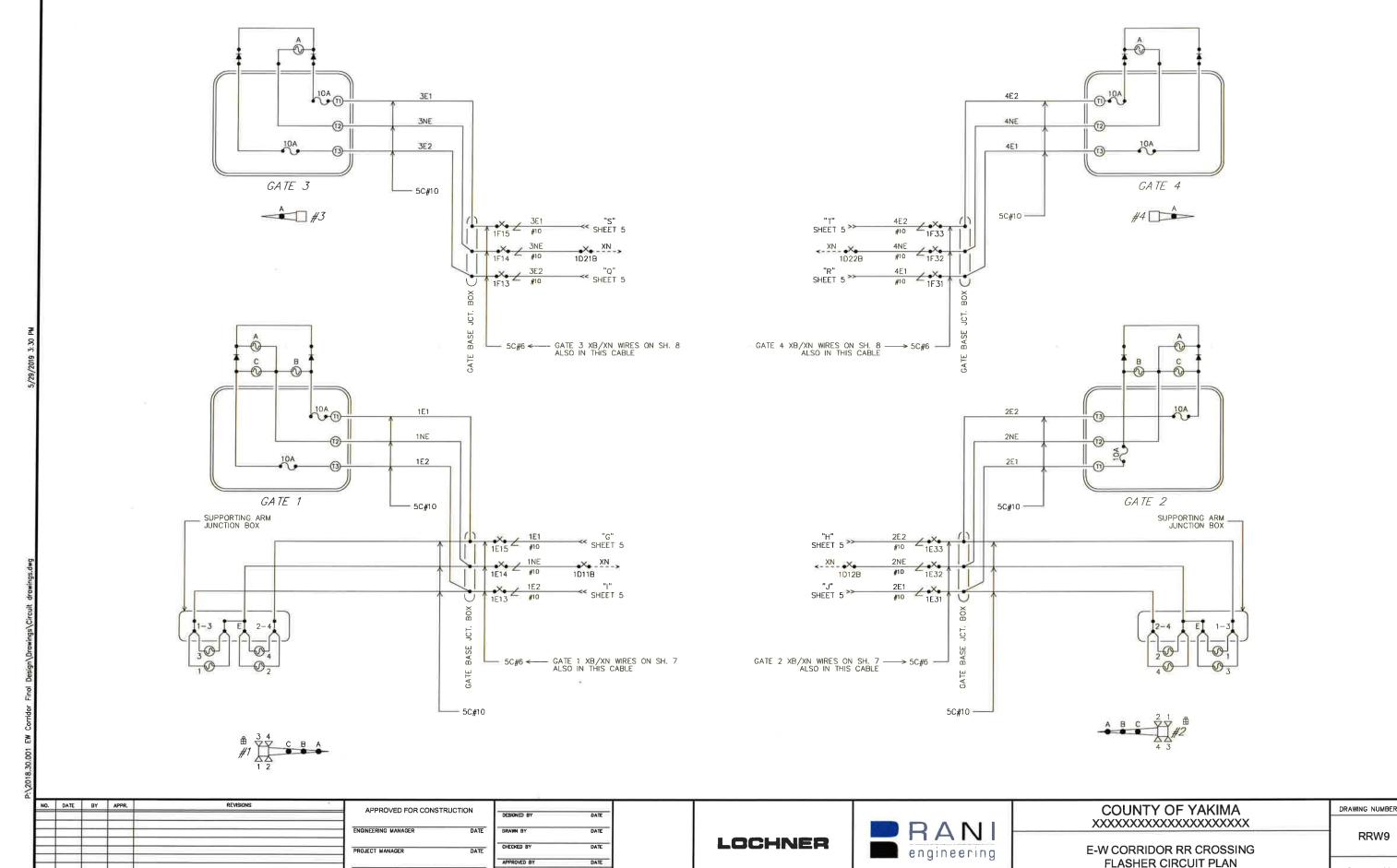
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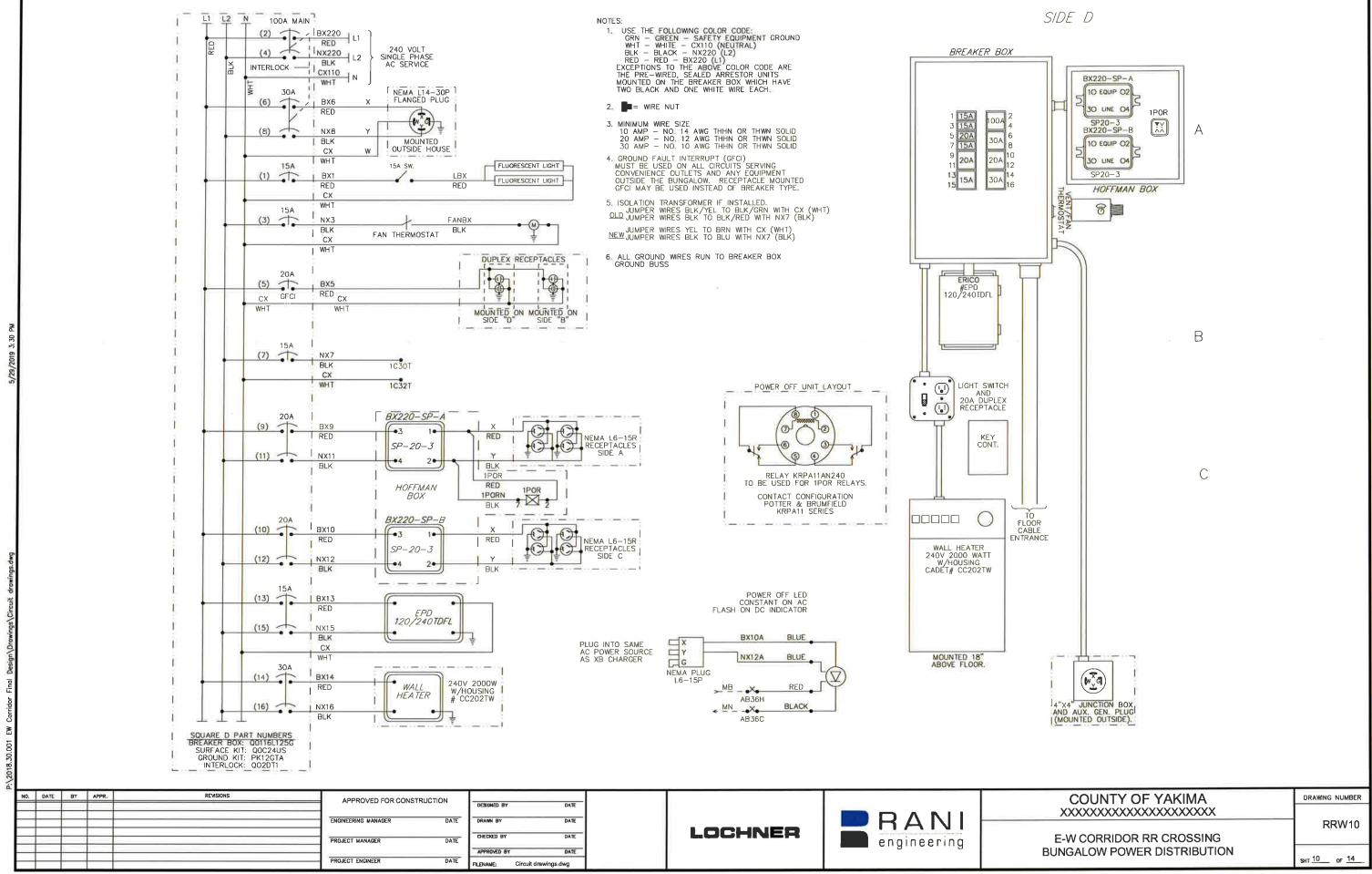


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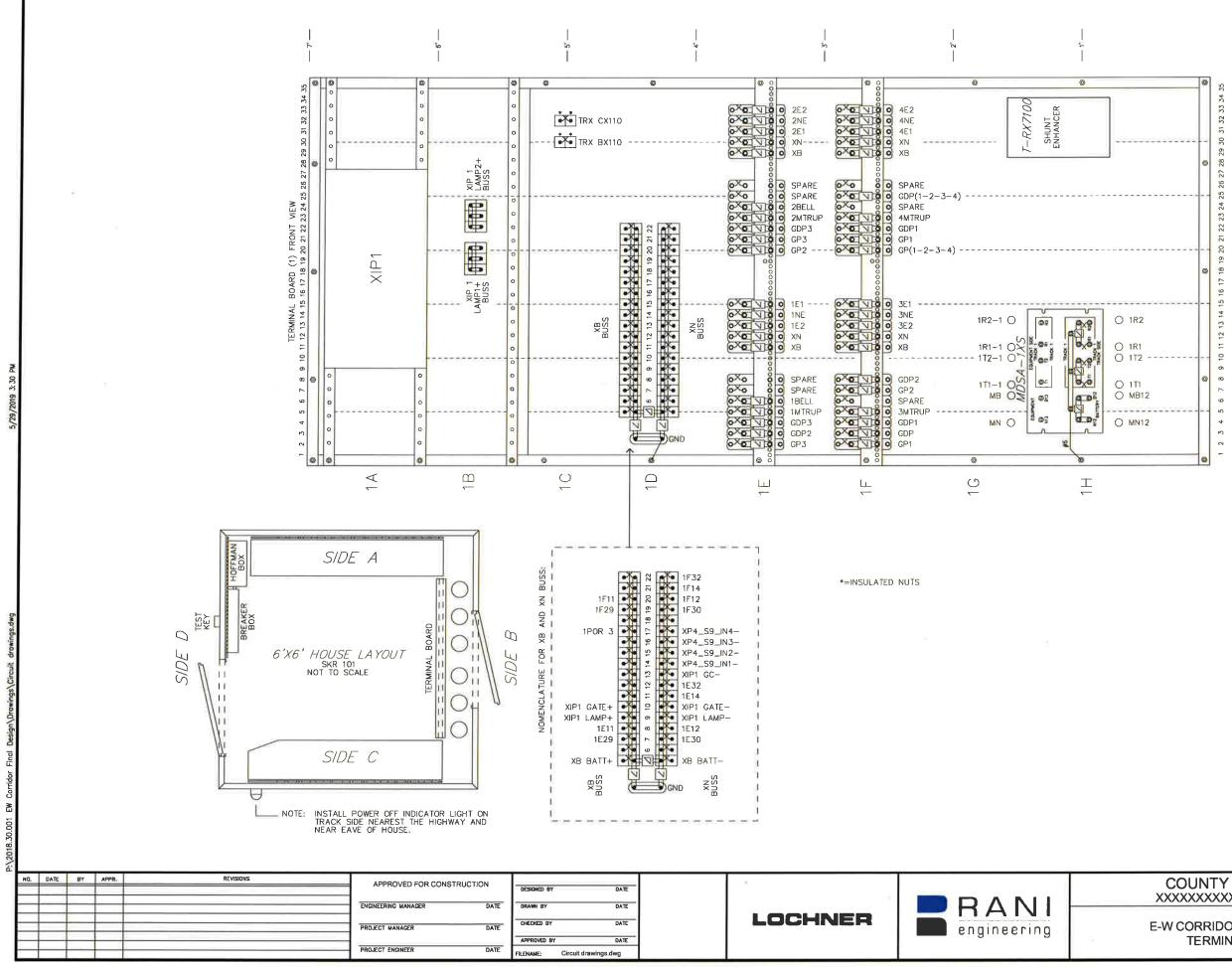
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RRW9 SHT 9 OF 14



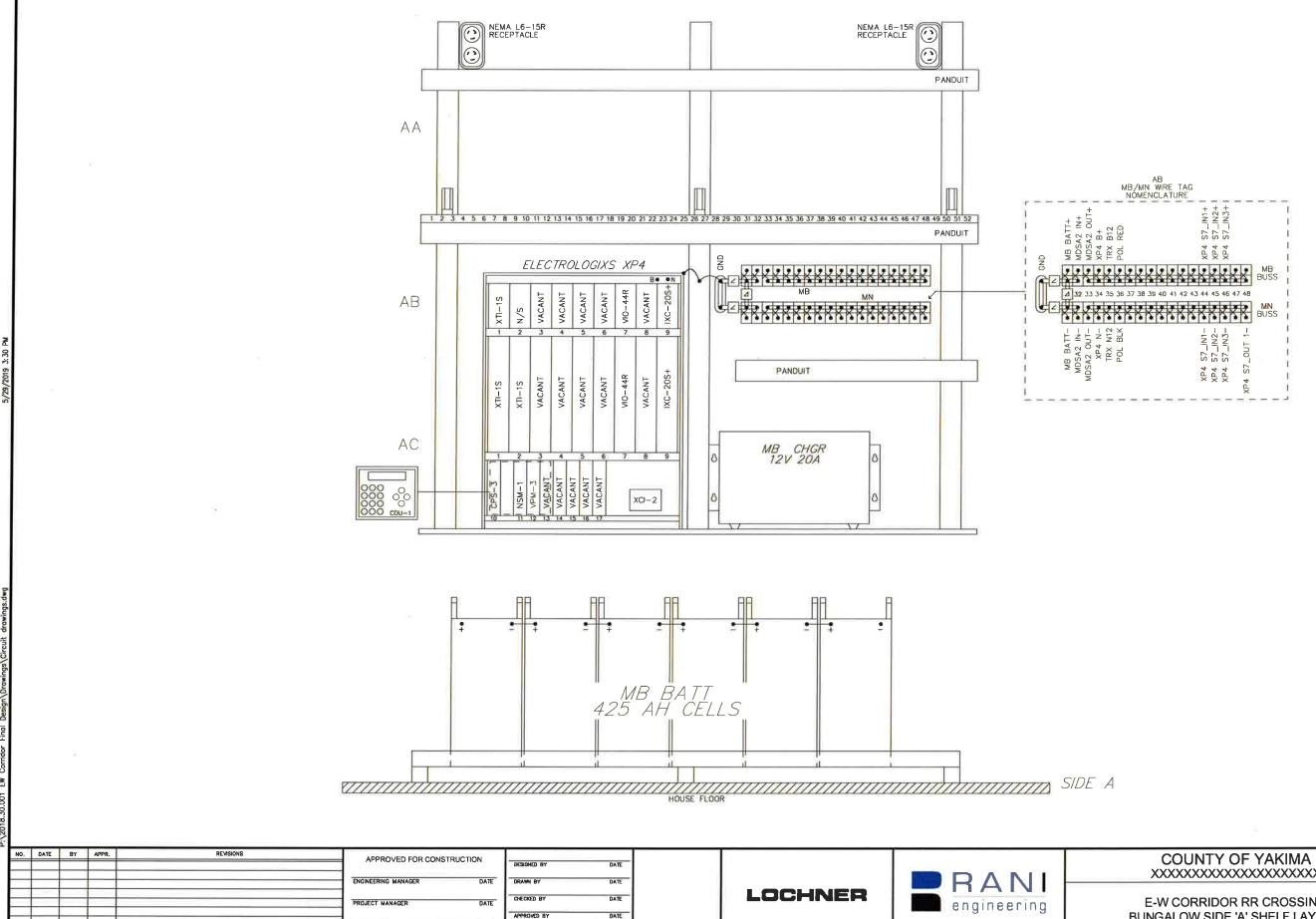






COUNTY OF YAKIMA	DRAWING NUMBER

E-W CORRIDOR RR CROSSING	RRW11
TERMINAL BOARD	янт <u>11 ог 14</u>



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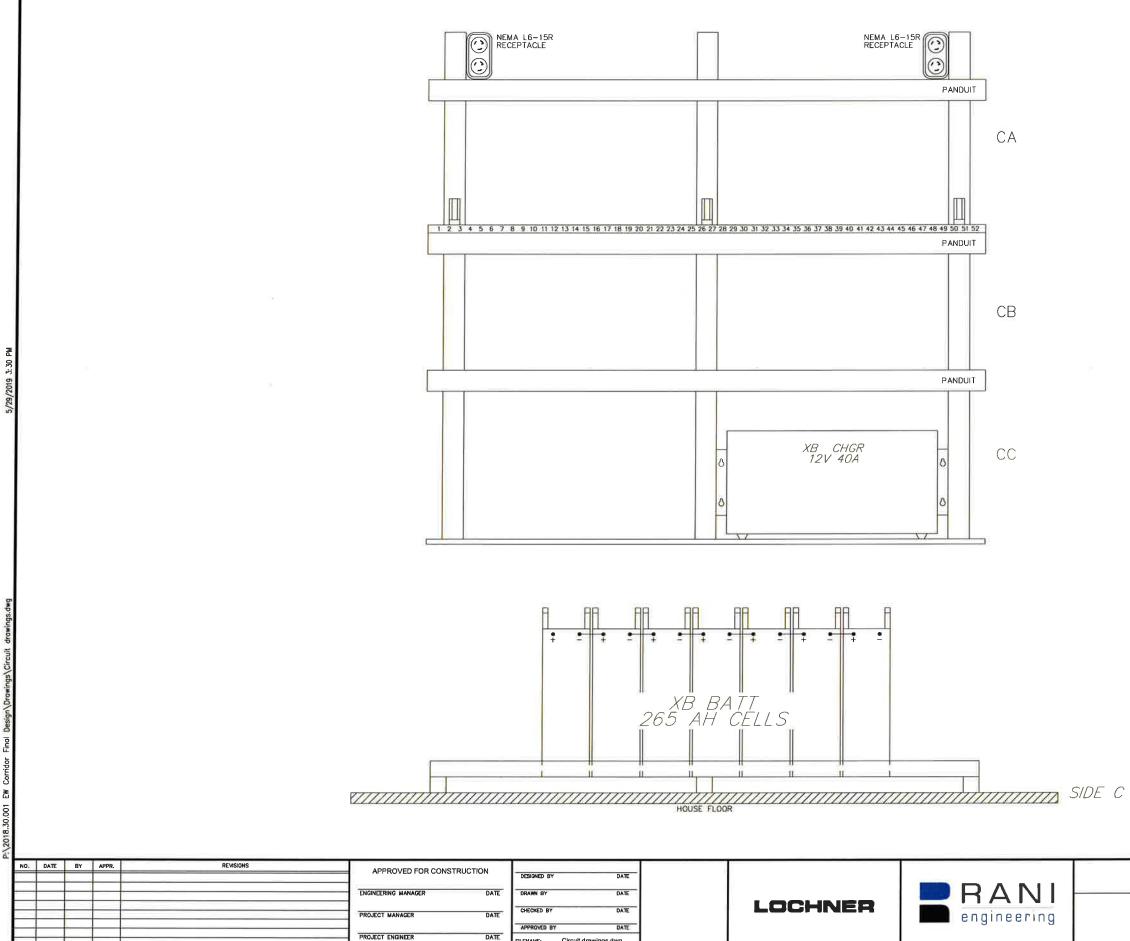
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Circuit drawings.dwg

E-W CORRIDOR RR CROSSING BUNGALOW SIDE 'A' SHELF LAYOUT

DRAWING NUMBER **RRW12**

SHT 12 OF 14



ILENAME:

Circuit drawings dwg

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COUNTY OF YAKIMA	DRAWING NUMBER
E-W CORRIDOR RR CROSSING	RRW13
BUNGALOW SIDE 'C' SHELF LAYOUT	SHT 13 OF 14

