

SUMMARY OF EARTHWORK QUANTITIES

INDEX				PROJECT TOTAL	
Book	Page	Sheet		CU. YD.	<i>As Const.</i>
			203-00010 UNCLASSIFIED EXCAVATION (CIP)		
			ROADWAY (QUANTITY CALCULATED FROM CIVIL3D TIN VOL. COMPARE)		
					Riverside Parkway Left Turn into Dos Rios
			250		ADDITION OF CONCRETE AND PAVING PRISM
			292		REMOVAL OF PAVEMENT REMOVAL PAY ITEMS
			-105		
			437		SUBTOTAL:
			437		TOTAL FOR PAY QUANTITIES
					EMBANKMENT MATERIAL (CIP) (FOR INFORMATION ONLY)
					QUANTITY CALCULATED FROM CIVIL3D
			0		Riverside Parkway Left Turn into Dos Rios
			0		TOTAL

INDEX			<u>ROADWAY QUANTITIES BALANCE</u> <u>(FOR INFORMATION ONLY)</u>	PROJECT TOTAL	
Book	Page	Sheet		CU. YD.	<i>As Const.</i>
			Total Unclassified Excavation	437	
			Total Embankment (net)	0	
			EMBANKMENT TIMES FACTOR 1.2	0	
			Haul Material	437	
			(Material to be Hauled Away by Contractor)		

REVISION Δ	DESCRIPTION	DATE	DRAWN BY JCS	DATE 2020	SCALE
REVISION Δ			DESIGNED BY JCS	DATE 2020	
REVISION Δ			CHECKED BY BH	DATE 2020	
REVISION Δ			APPROVED BY ICP	DATE 2020	



PUBLIC WORKS
ENGINEERING DIVISION

RIVERSIDE PARKWAY LEFT TURN LANE
SUMMARY OF EARTHWORK - 1
May 20, 2020

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 EL 4570.37

ΔN CP / PK 16 /
 E 89361.4800
 EL 4571.57
 ΔN CP / PK /
 E 89361.4800
 EL 4571.57

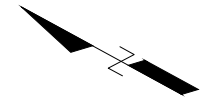
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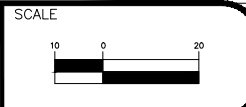
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RIVERSIDE PARKWAY



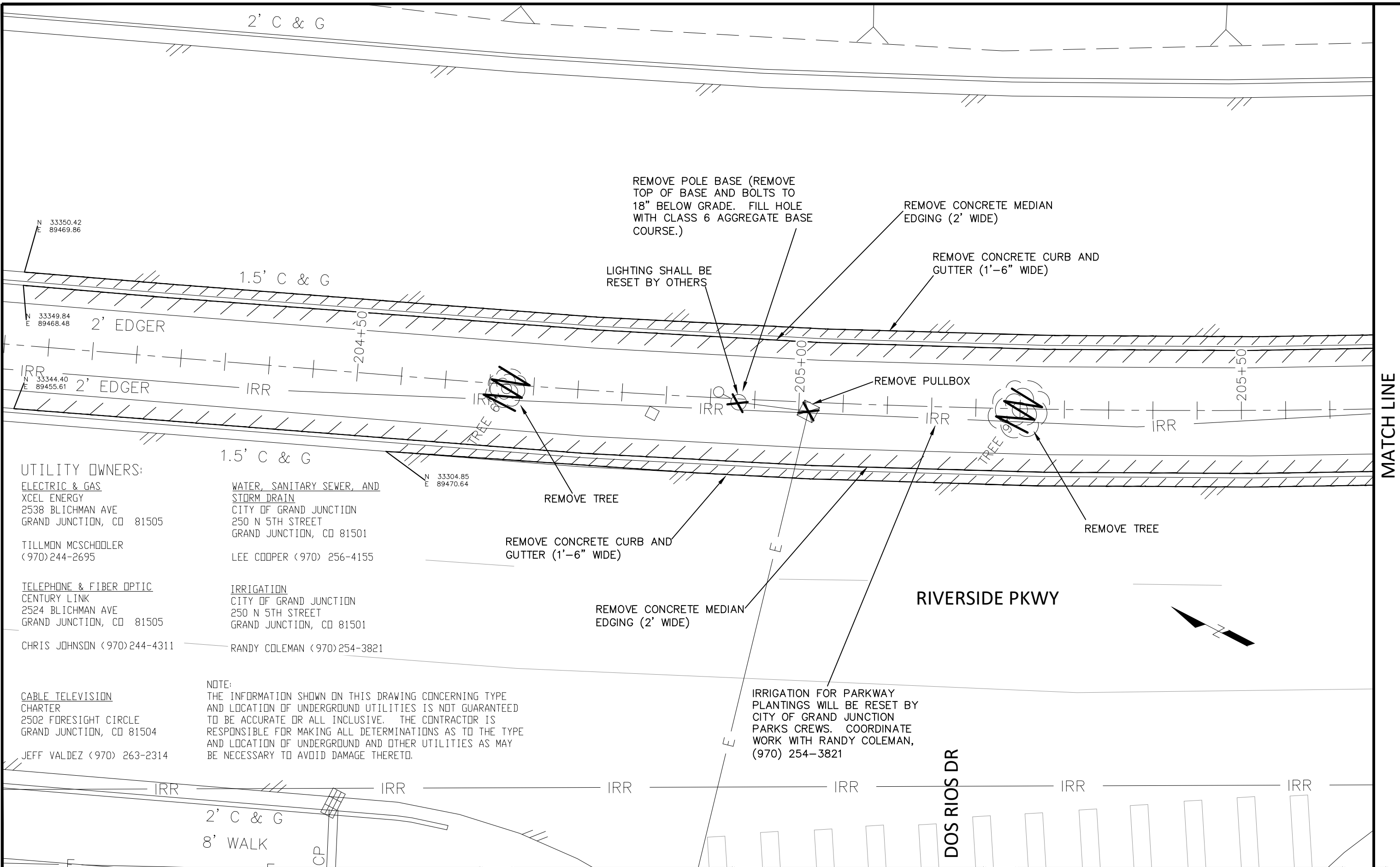
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DRAWN BY JCS DATE 2020
 DESIGNED BY JCS DATE 2020
 CHECKED BY BH DATE 2020
 APPROVED BY TCF DATE 2020



PUBLIC WORKS
 ENGINEERING DIVISION

RIVERSIDE PARKWAY LEFT TURN LANE
 SURVEY CONTROL - 1
 May 20, 2020



REMOVE POLE BASE (REMOVE TOP OF BASE AND BOLTS TO 18" BELOW GRADE. FILL HOLE WITH CLASS 6 AGGREGATE BASE COURSE.)

LIGHTING SHALL BE RESET BY OTHERS

REMOVE CONCRETE MEDIAN EDGING (2' WIDE)

REMOVE CONCRETE CURB AND GUTTER (1'-6" WIDE)

REMOVE PULLBOX

REMOVE TREE

REMOVE CONCRETE CURB AND GUTTER (1'-6" WIDE)

REMOVE CONCRETE MEDIAN EDGING (2' WIDE)

REMOVE TREE

IRRIGATION FOR PARKWAY PLANTINGS WILL BE RESET BY CITY OF GRAND JUNCTION PARKS CREWS. COORDINATE WORK WITH RANDY COLEMAN, (970) 254-3821

UTILITY OWNERS:

ELECTRIC & GAS
 XCEL ENERGY
 2538 BLICHMAN AVE
 GRAND JUNCTION, CO 81505

TILLMON MCSCHOOLER
 (970)244-2695

TELEPHONE & FIBER OPTIC
 CENTURY LINK
 2524 BLICHMAN AVE
 GRAND JUNCTION, CO 81505

CHRIS JOHNSON (970)244-4311

CABLE TELEVISION
 CHARTER
 2502 FORESIGHT CIRCLE
 GRAND JUNCTION, CO 81504

JEFF VALDEZ (970) 263-2314

WATER, SANITARY SEWER, AND STORM DRAIN
 CITY OF GRAND JUNCTION
 250 N 5TH STREET
 GRAND JUNCTION, CO 81501

LEE COOPER (970) 256-4155

IRRIGATION
 CITY OF GRAND JUNCTION
 250 N 5TH STREET
 GRAND JUNCTION, CO 81501

RANDY COLEMAN (970)254-3821

NOTE:
 THE INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
REVISION			JCS	2020	
REVISION			JCS	2020	
REVISION			BH	2020	
REVISION			ICP	2020	
REVISION					



**PUBLIC WORKS
 ENGINEERING DIVISION**

**RIVERSIDE PARKWAY LEFT TURN LANE
 EXISTING CONDITION PLAN - 1
 May 20, 2020**

MATCH LINE

UTILITY OWNERS:

ELECTRIC & GAS
 XCEL ENERGY
 2538 BLICHMAN AVE
 GRAND JUNCTION, CO 81505

TILLMON MCSCHODLER
 (970)244-2695

TELEPHONE & FIBER OPTIC
 CENTURY LINK
 2524 BLICHMAN AVE
 GRAND JUNCTION, CO 81505

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CABLE TELEVISION
 CHARTER
 2502 FORESIGHT CIRCLE
 GRAND JUNCTION, CO 81504

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2' C & G

REMOVE CONCRETE MEDIAN EDGING (2' WIDE)

REMOVE CONCRETE CURB AND GUTTER (1'-6" WIDE)

REMOVE TREE

1.5' C & G

2' EDGER REMOVE TREE

2' EDGER

1.5' C & G

REMOVE PULLBOX

LIGHTING SHALL BE RESET BY OTHERS

REMOVE POLE BASE (REMOVE TOP OF BASE AND BOLTS TO 18" BELOW GRADE. FILL HOLE WITH CLASS 6 AGGREGATE BASE COURSE.)

REMOVE CONCRETE CURB AND GUTTER (1'-6" WIDE)

RIVERSIDE PKWY

REMOVE CONCRETE MEDIAN EDGING (2' WIDE)

IRRIGATION FOR PARKWAY PLANTINGS WILL BE RESET BY CITY OF GRAND JUNCTION PARKS CREWS. COORDINATE WORK WITH RANDY COLEMAN, (970) 254-3821

N 33172.93
 E 89535.93

2' C & G

8' WALK

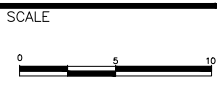
DOS RIOS DR

MATCH LINE

MATCH LINE

REVISION	DESCRIPTION	DATE
REVISION		
REVISION		
REVISION		

DRAWN BY JCS DATE 2020
 DESIGNED BY JCS DATE 2020
 CHECKED BY BH DATE 2020
 APPROVED BY ICP DATE 2020

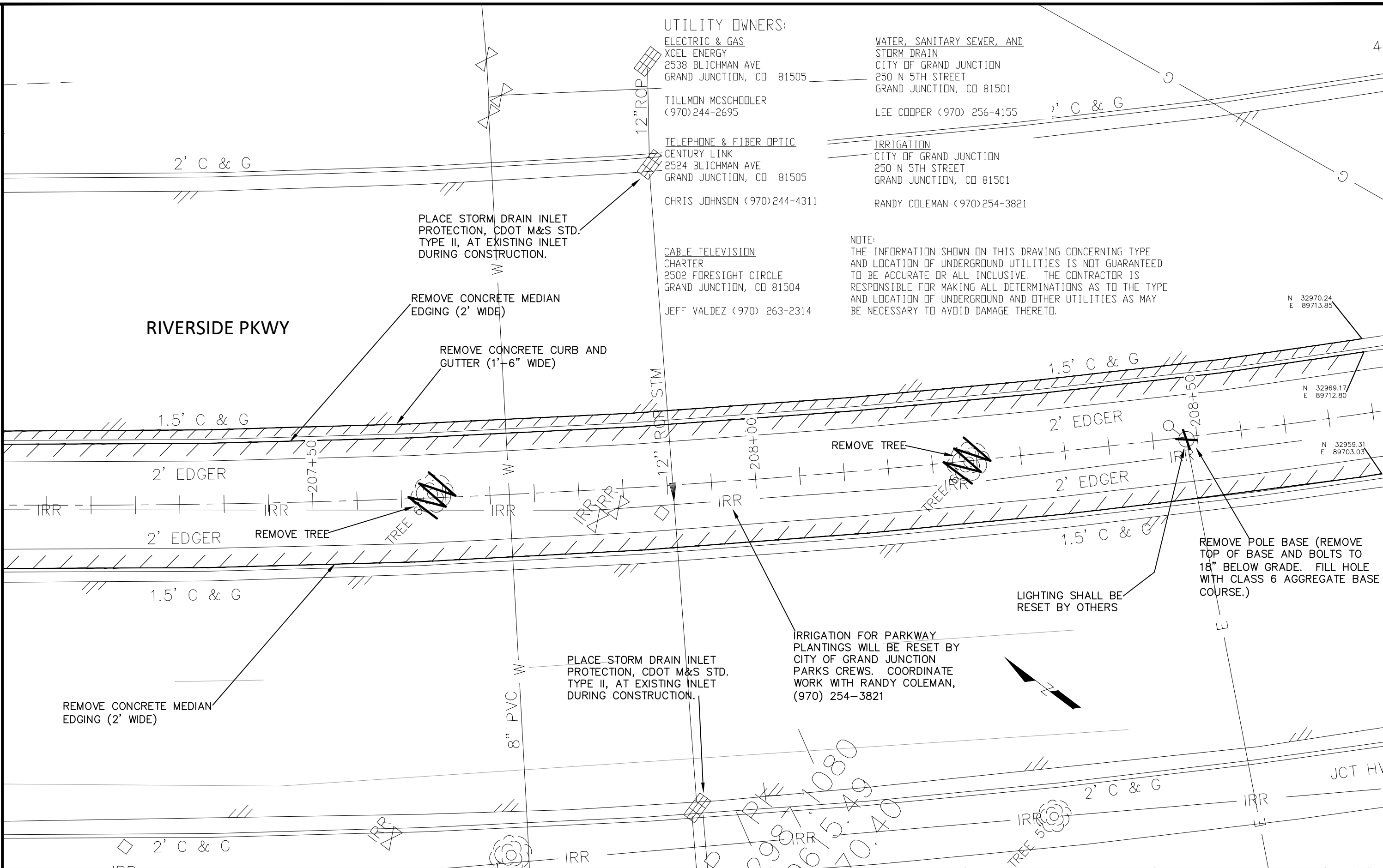


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RIVERSIDE PARKWAY LEFT TURN LANE EXISTING CONDITION PLAN - 2
 May 20, 2020

N:\Landproj\2019 Riverfront at Dos Rios\dwg\00 design\2020 Riverside Parkway Left Turn Lane into Dos Rios\EXISTING CONDITION PLAN.dwg, 5/20/2020 8:49:18 AM

MATCH LINE



UTILITY OWNERS:

ELECTRIC & GAS
 XCEL ENERGY
 2538 BLICHMAN AVE
 GRAND JUNCTION, CO 81505

TILLMON MCSCHODLER
 (970)244-2695

TELEPHONE & FIBER OPTIC
 CENTURY LINK
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 AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY
 BE NECESSARY TO AVOID DAMAGE THERETO.

PLACE STORM DRAIN INLET
 PROTECTION, CDOT M&S STD.
 TYPE II, AT EXISTING INLET
 DURING CONSTRUCTION.

REMOVE CONCRETE MEDIAN
 EDGING (2' WIDE)

REMOVE CONCRETE CURB AND
 GUTTER (1'-6" WIDE)

REMOVE TREE

REMOVE TREE

REMOVE CONCRETE MEDIAN
 EDGING (2' WIDE)

PLACE STORM DRAIN INLET
 PROTECTION, CDOT M&S STD.
 TYPE II, AT EXISTING INLET
 DURING CONSTRUCTION.

IRRIGATION FOR PARKWAY
 PLANTINGS WILL BE RESET BY
 CITY OF GRAND JUNCTION
 PARKS CREWS. COORDINATE
 WORK WITH RANDY COLEMAN,
 (970) 254-3821

LIGHTING SHALL BE
 RESET BY OTHERS

REMOVE POLE BASE (REMOVE
 TOP OF BASE AND BOLTS TO
 18" BELOW GRADE. FILL HOLE
 WITH CLASS 6 AGGREGATE BASE
 COURSE.)

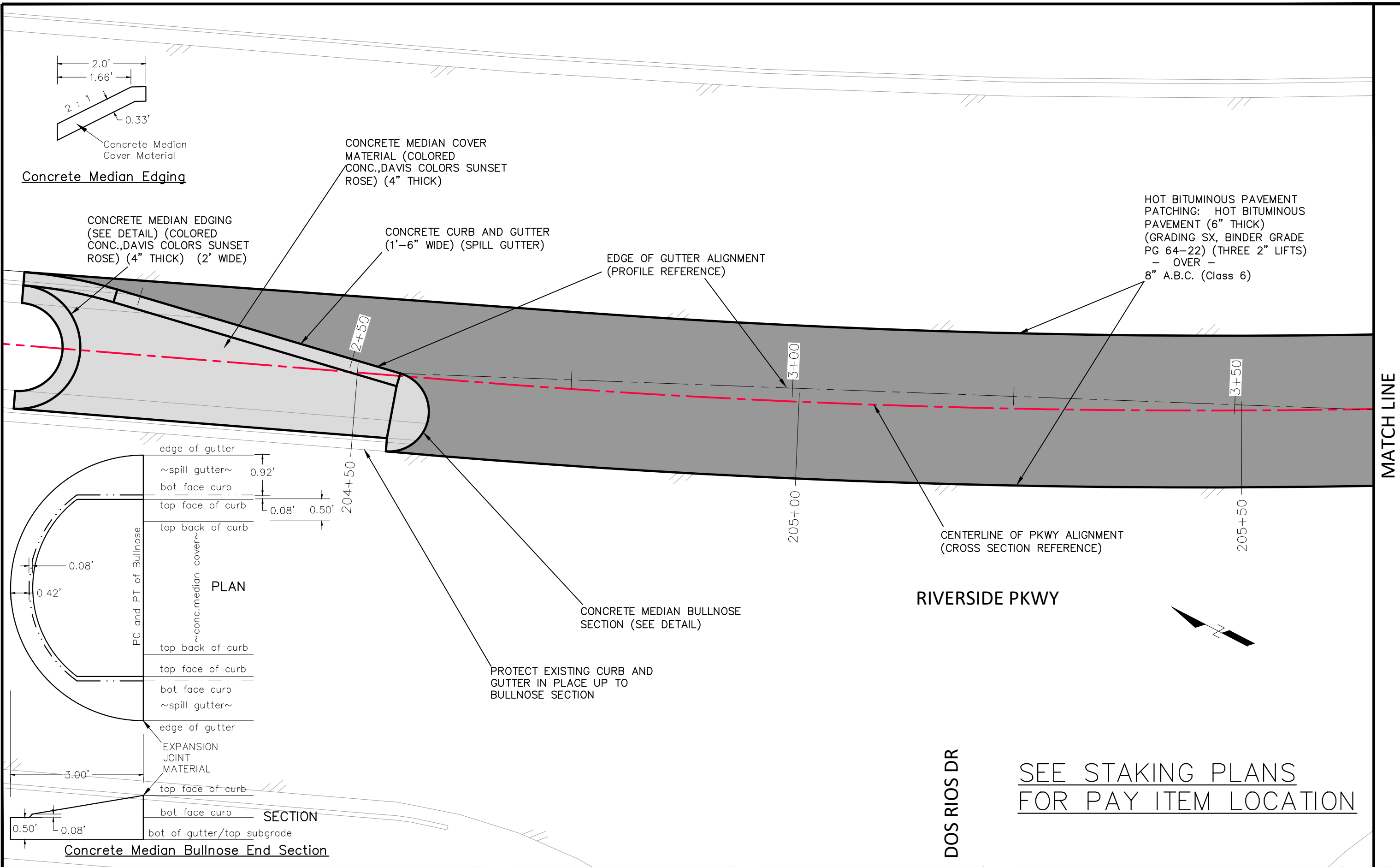
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REVISION					



PUBLIC WORKS
 ENGINEERING DIVISION

RIVERSIDE PARKWAY LEFT TURN LANE
 EXISTING CONDITION PLAN - 3
 May 20, 2020

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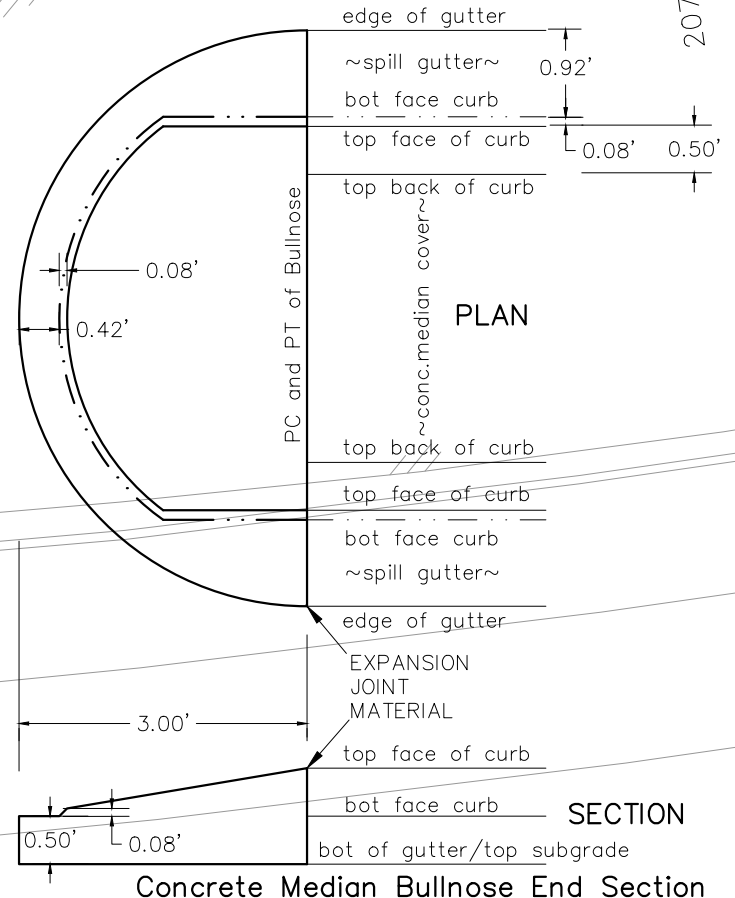
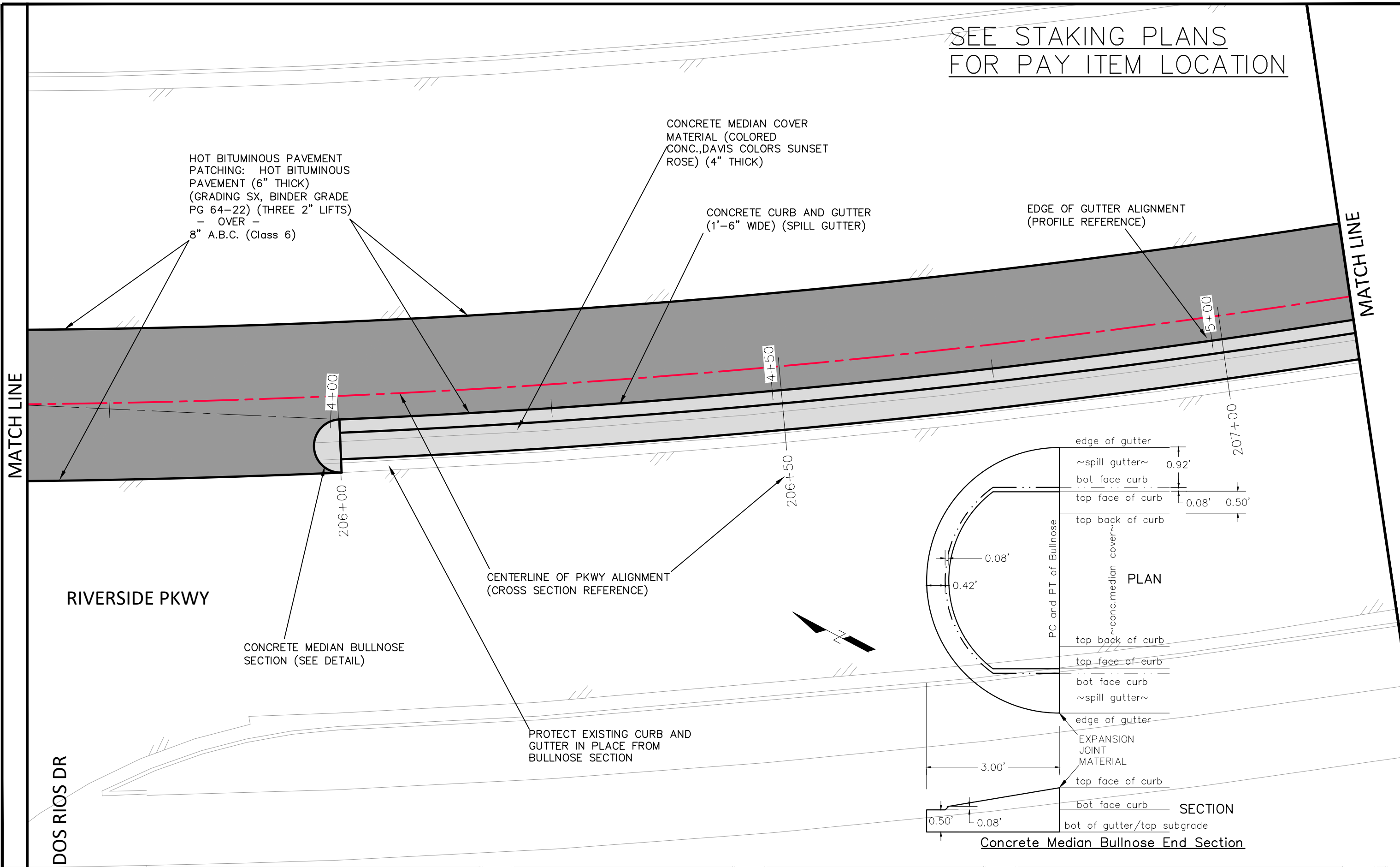
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REVISION					



PUBLIC WORKS
ENGINEERING DIVISION

RIVERSIDE PARKWAY LEFT TURN LANE
IMPROVEMENT PLAN - 1
May 20, 2020

SEE STAKING PLANS
FOR PAY ITEM LOCATION



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
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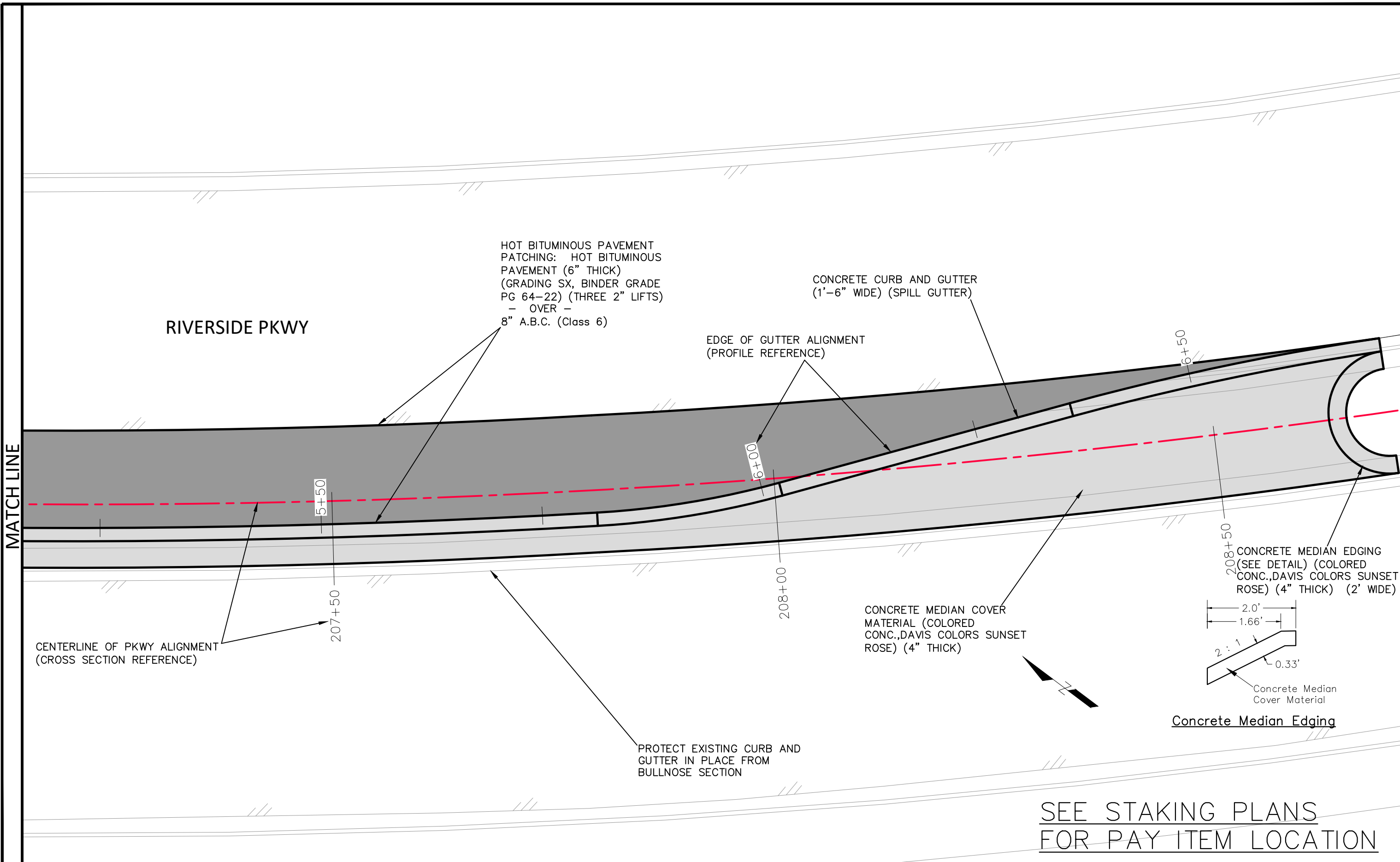


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ENGINEERING DIVISION

RIVERSIDE PARKWAY LEFT TURN LANE
IMPROVEMENT PLAN - 2
May 20, 2020

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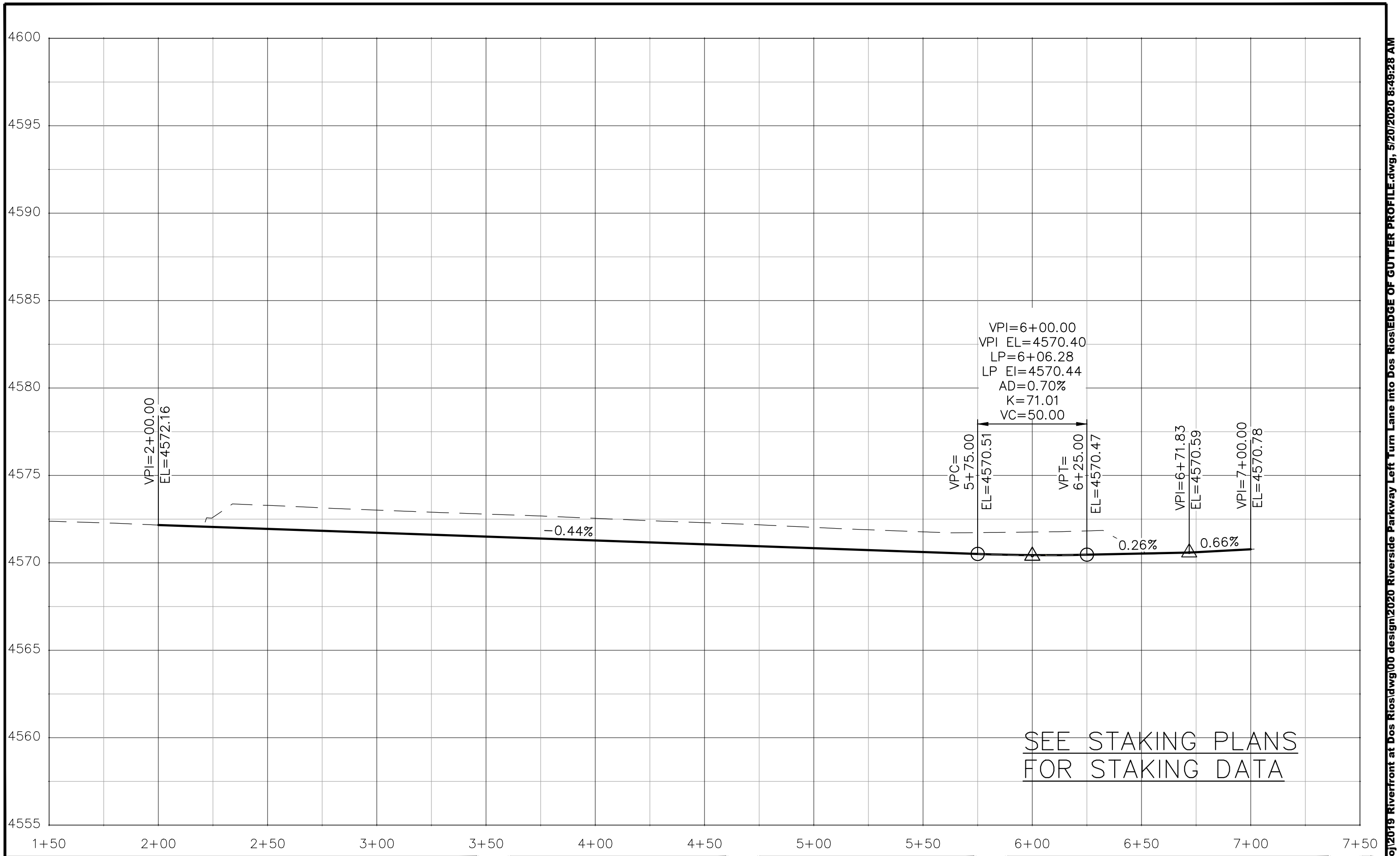
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**PUBLIC WORKS
ENGINEERING DIVISION**

**RIVERSIDE PARKWAY LEFT TURN LANE
IMPROVEMENT PLAN - 3
May 20, 2020**



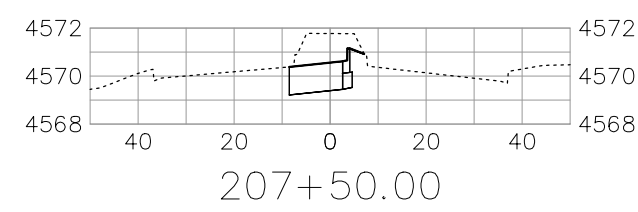
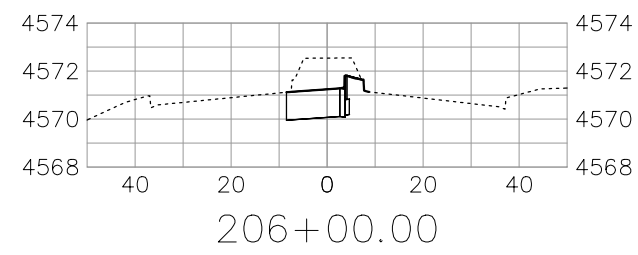
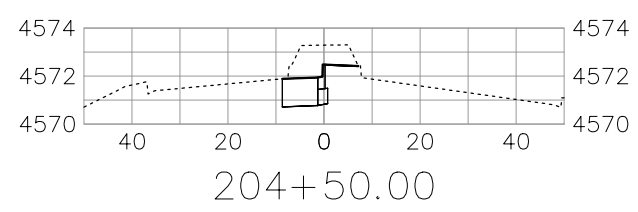
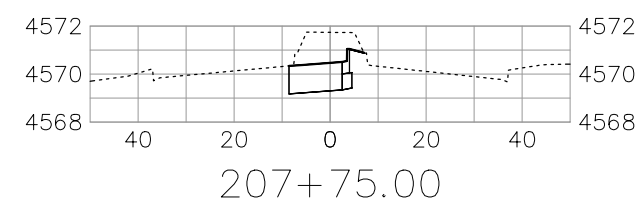
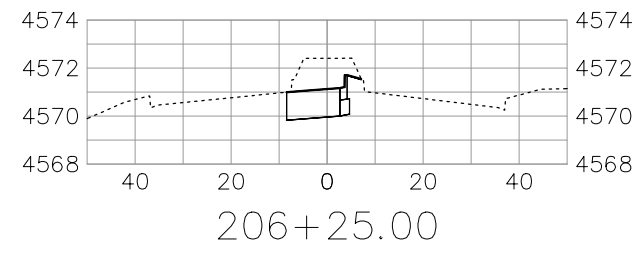
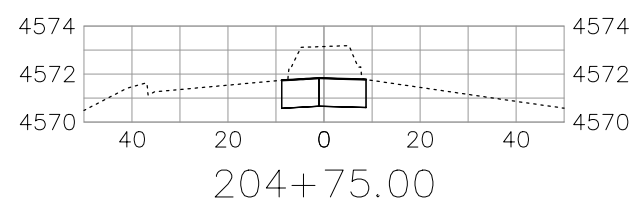
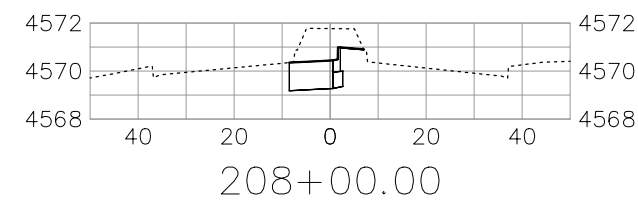
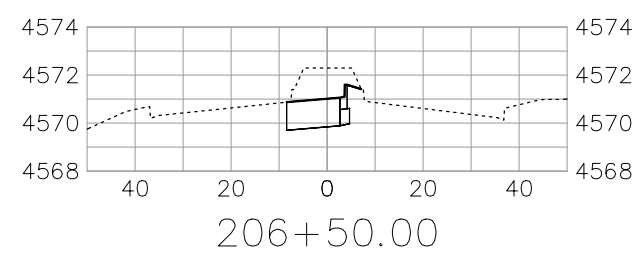
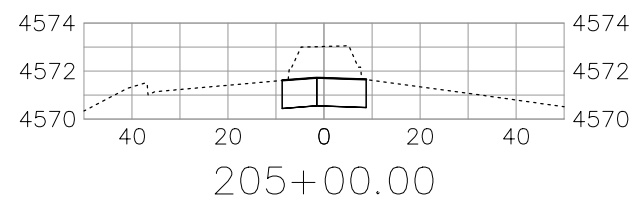
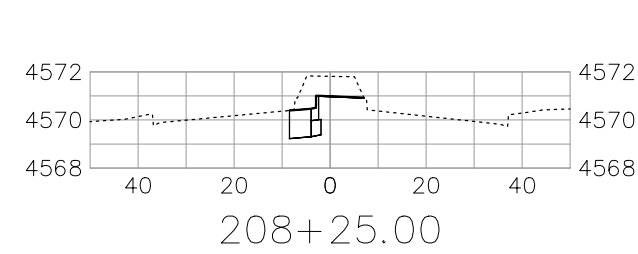
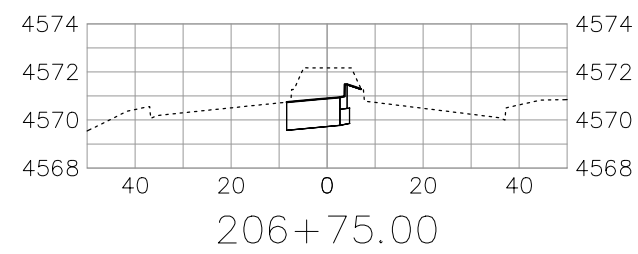
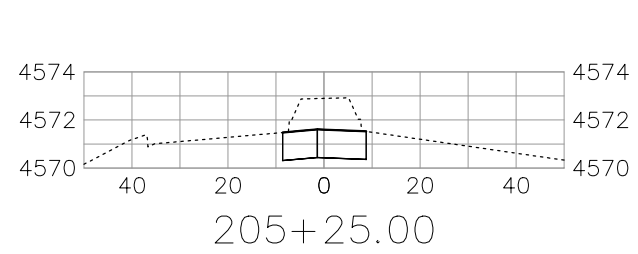
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REVISION			JCS	2020	
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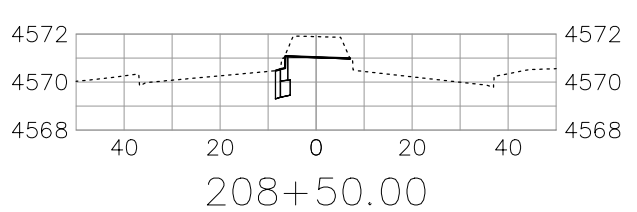
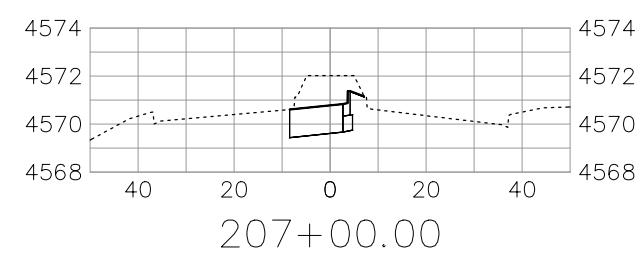
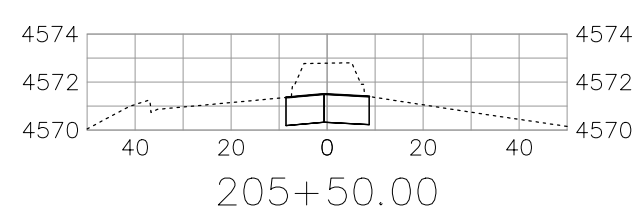
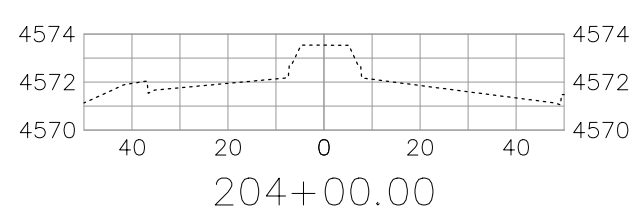
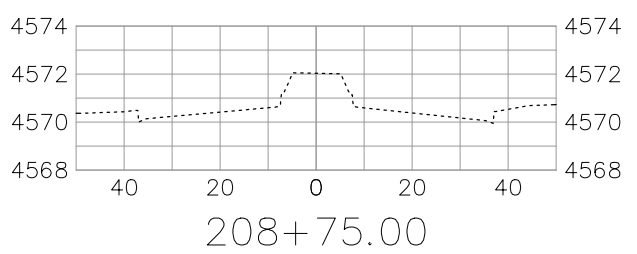
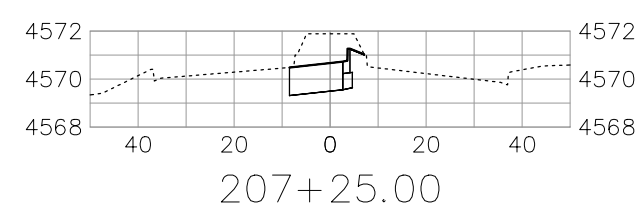
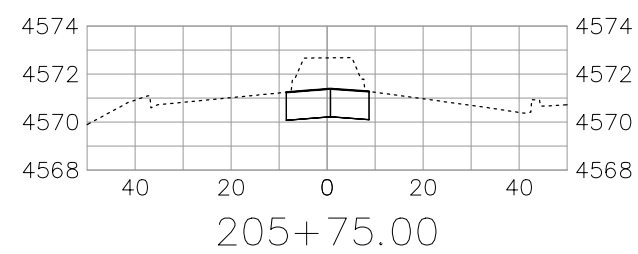
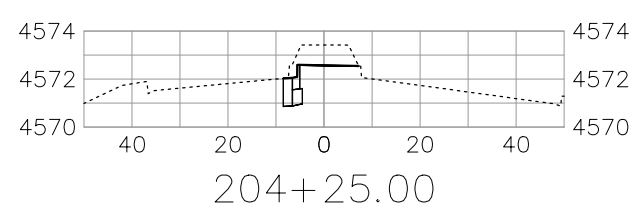
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ENGINEERING DIVISION

RIVERSIDE PARKWAY LEFT TURN LANE
EDGE OF GUTTER PROFILE - 1
May 20, 2020

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SEE STAKING PLANS
FOR STAKING DATA

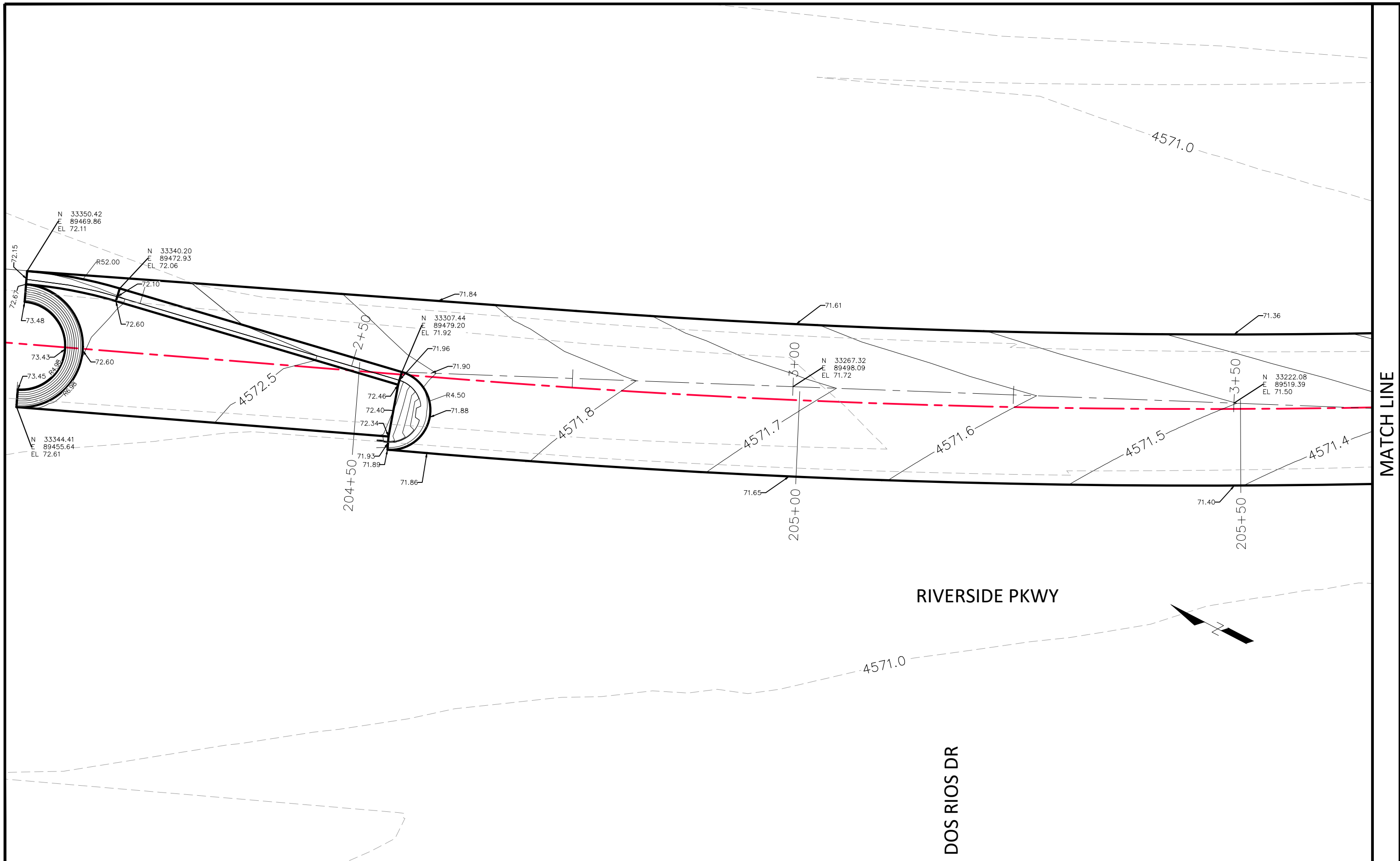


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REVISION			ICP	2020	



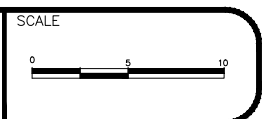
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ENGINEERING DIVISION**

**RIVERSIDE PARKWAY LEFT TURN LANE
PARKWAY CROSS SECTIONS - 1
May 20, 2020**



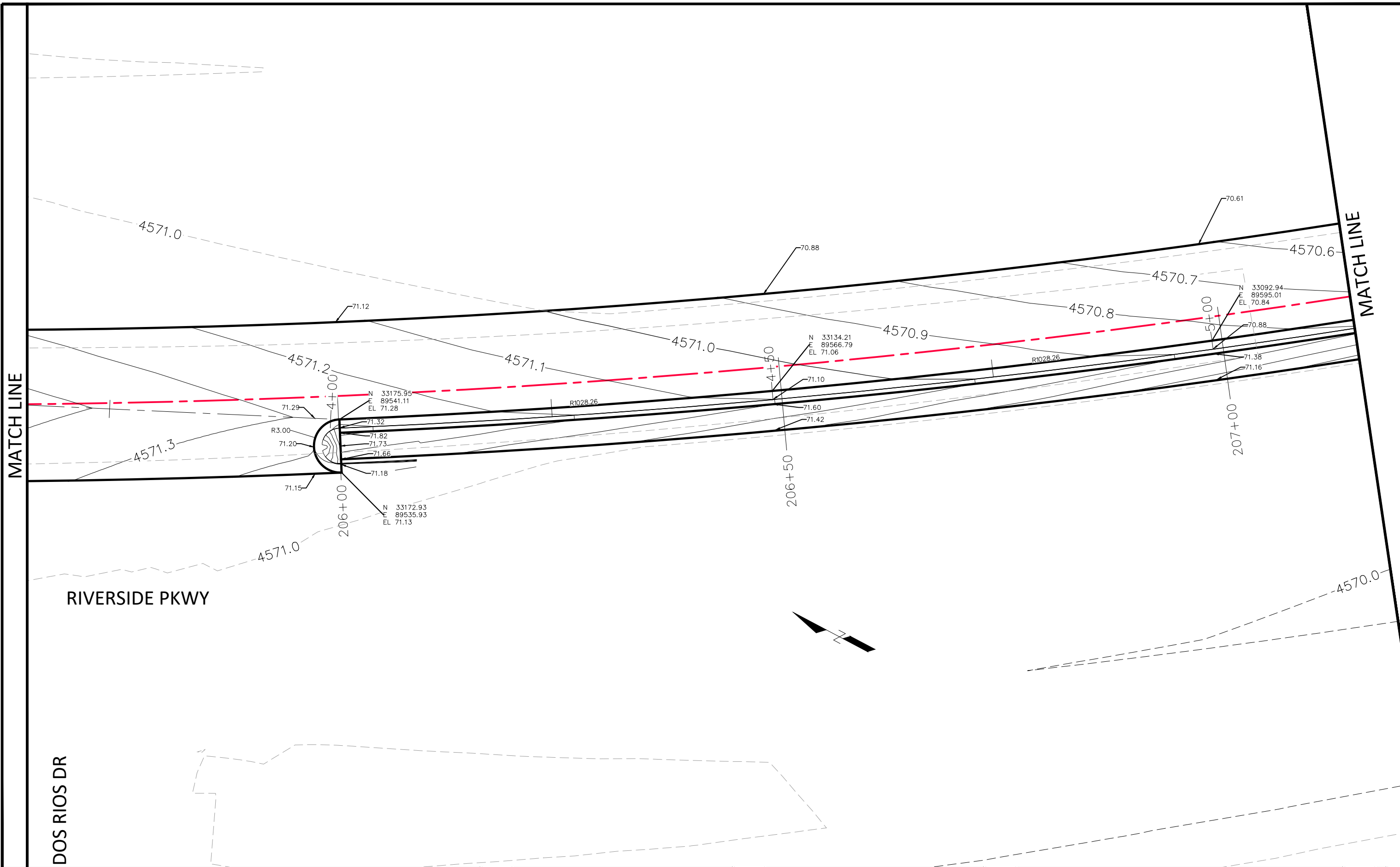
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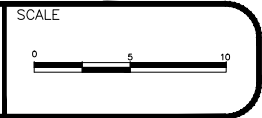
PUBLIC WORKS
 ENGINEERING DIVISION

RIVERSIDE PARKWAY LEFT TURN LANE
 STAKING PLAN - 1
 May 20, 2020



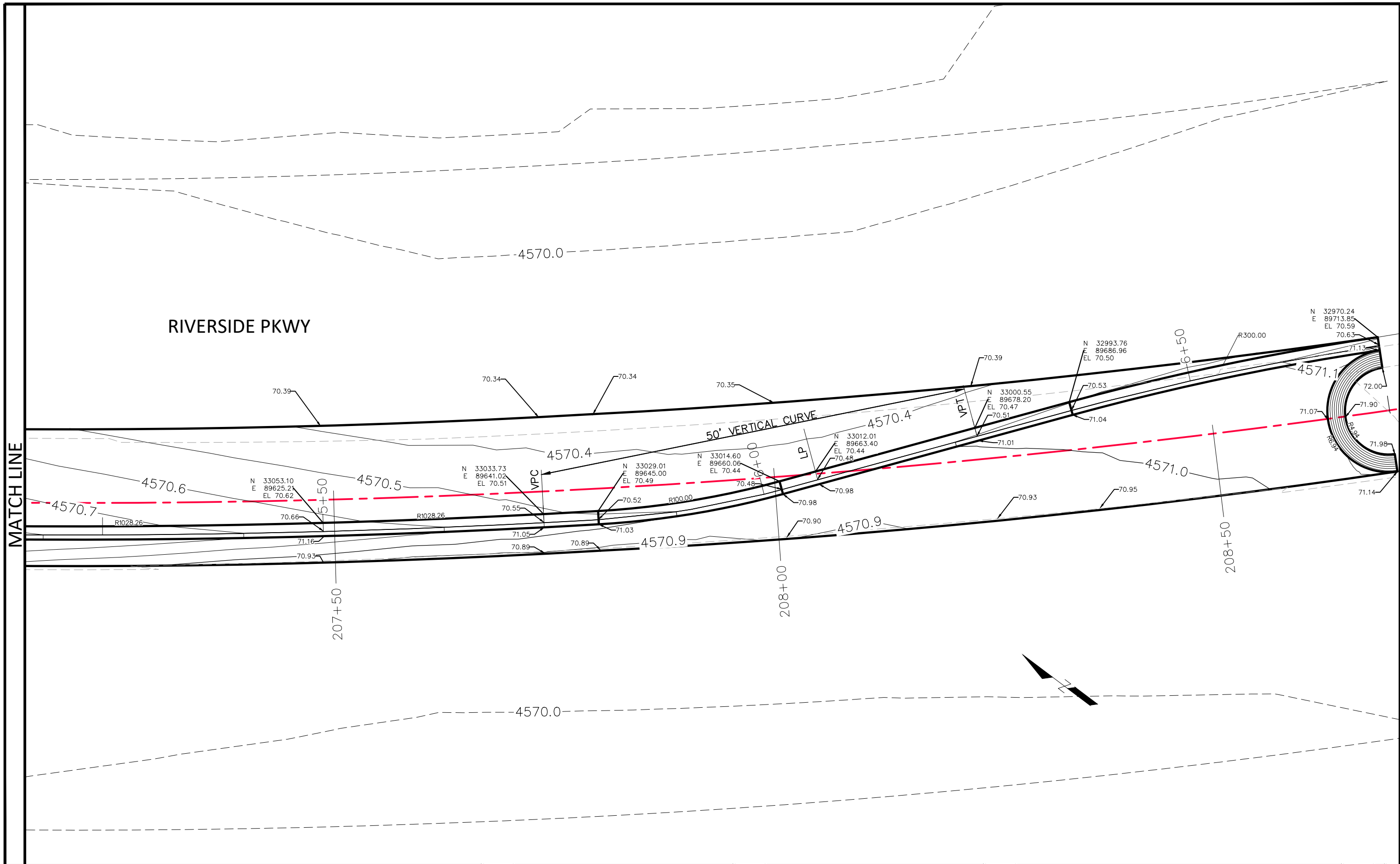
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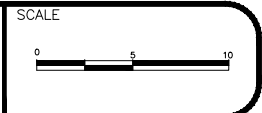
PUBLIC WORKS
 ENGINEERING DIVISION

RIVERSIDE PARKWAY LEFT TURN LANE
 STAKING PLAN - 2
 May 20, 2020



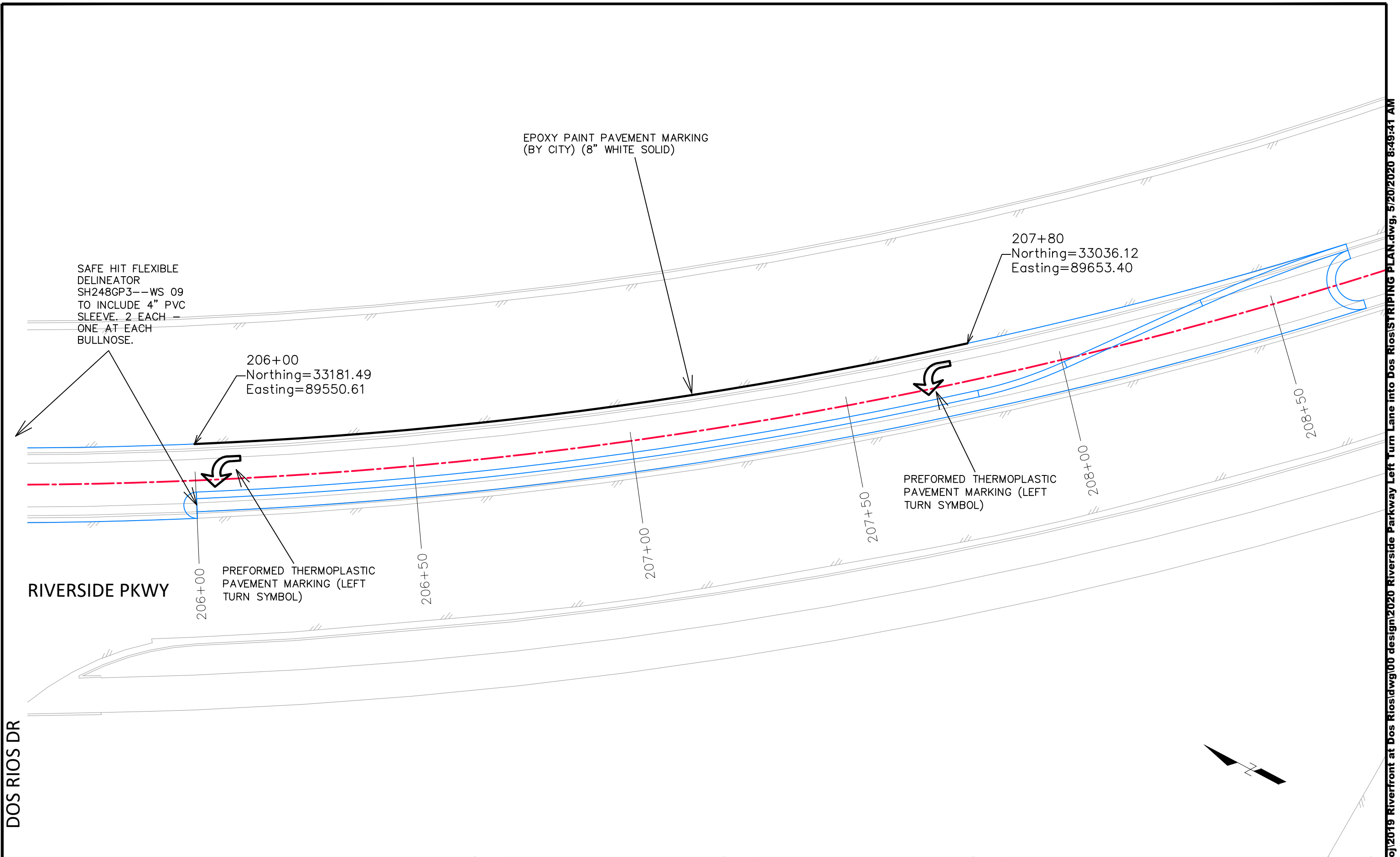
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DRAWN BY JCS DATE 2020
 DESIGNED BY JCS DATE 2020
 CHECKED BY BH DATE 2020
 APPROVED BY ICP DATE 2020



PUBLIC WORKS
 ENGINEERING DIVISION

RIVERSIDE PARKWAY LEFT TURN LANE
 STAKING PLAN - 3
 May 20, 2020



REVISION	DESCRIPTION	DATE
REVISION		
REVISION		
REVISION		

DRAWN BY JCS DATE 2020
 DESIGNED BY JCS DATE 2020
 CHECKED BY BH DATE 2020
 APPROVED BY ICP DATE 2020



PUBLIC WORKS
ENGINEERING DIVISION

RIVERSIDE PARKWAY LEFT TURN LANE
STRIPING PLAN -
May 20, 2020

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SUMMARY OF EARTHWORK QUANTITIES

INDEX				PROJECT TOTAL	
Book	Page	Sheet		CU. YD.	As Const.
			203-00010 UNCLASSIFIED EXCAVATION (CIP) ON SITE (QUANTITY CALCULATED FROM CIVIL3D - TIN SUBTRACTION)		
			UNCLASSIFIED EXCAVATION	1370	
			ADDITION OF RIPRAP PRISM	2370	
			TOTAL FOR PAY QUANTITIES	3740	
			EMBANKMENT MATERIAL (CIP) (FOR INFORMATION ONLY) QUANTITY CALCULATED FROM CIVIL3D - TIN SUBTRACTION		
			UNCLASSIFIED EMBANKMENT	576	
			TOTAL	576	

INDEX			EARTHWORK QUANTITIES BALANCE (FOR INFORMATION ONLY)	PROJECT TOTAL	
Book	Page	Sheet		CU. YD.	As Const.
			Total Unclassified Excavation	3740	
			Total Embankment (net)	576	
			EMBANKMENT TIMES FACTOR 1.3	749	
			Excess Material leftover (Material to be spoiled on site by Contractor)	2991	

NOTES:

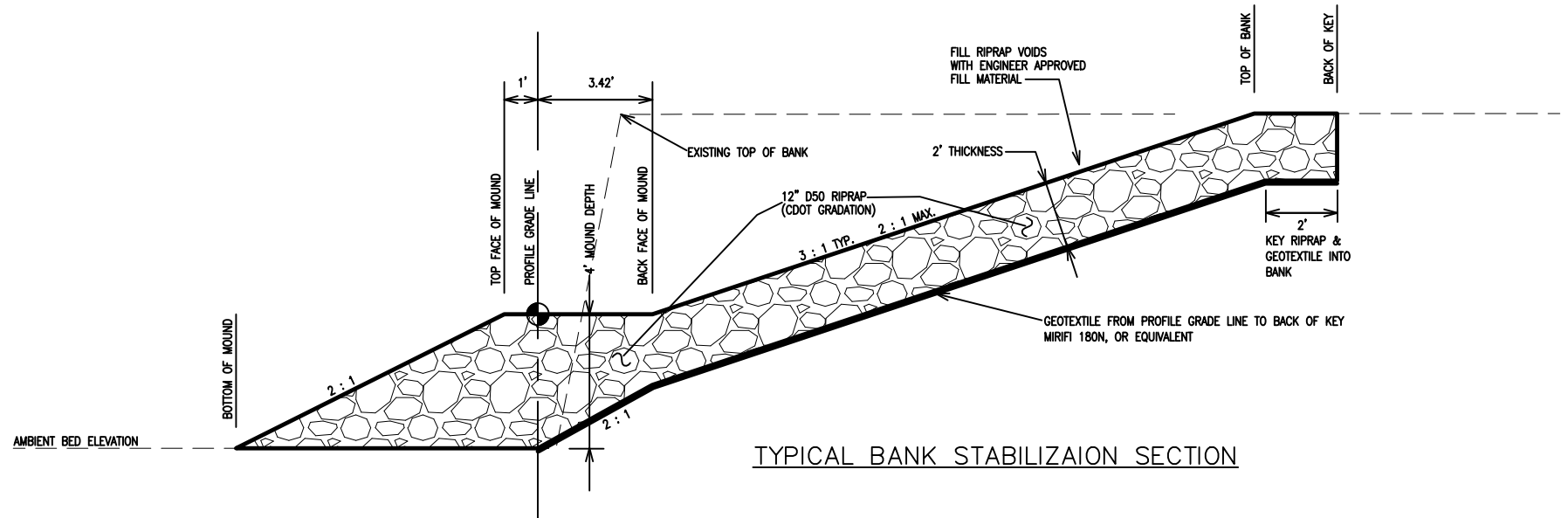
TOP 4 INCHES OF ALL EMBANKMENT SHALL BE FREE OF DEBRIS AND ROCKS OR CLODS GREATER THAN 3 INCHES IN DIAMETER, AND SHALL BE SUITABLE AS NATIVE TOPSOIL.
 ALL IMPORTED EMBANKMENT MATERIAL SHALL MEET A MINIMUM OF R-VALUE = 40.

REVISION Δ _____	DESCRIPTION _____	DATE _____	DRAWN BY JCS	DATE 2020	SCALE _____
REVISION Δ _____	DESIGNED BY JCS	DATE 2020	CHECKED BY BH	DATE 2020	
REVISION Δ _____	APPROVED BY ICP	DATE 2020			

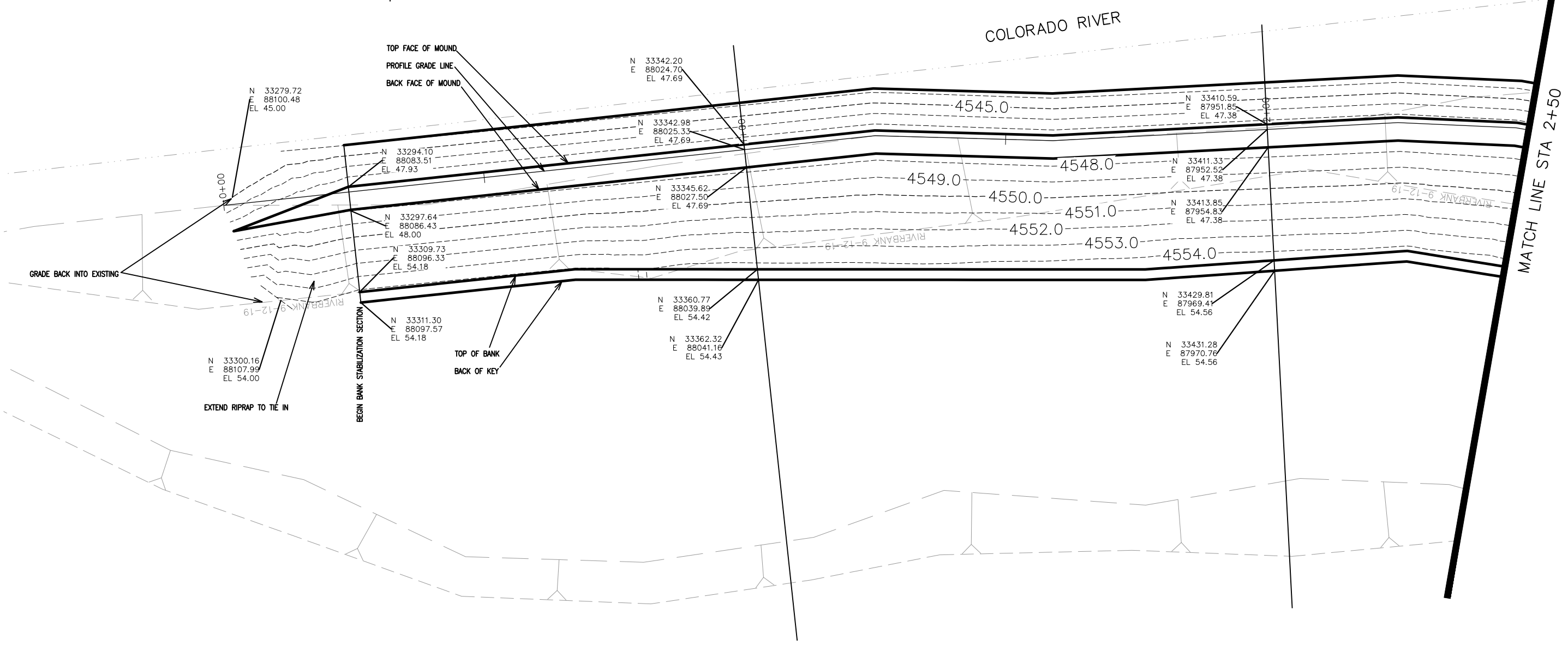


PUBLIC WORKS
ENGINEERING DIVISION

COLORADO RIVER BANK STABILIZATION
SUMMARY OF EARTHWORK – 1
May 20, 2020

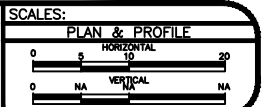


TYPICAL BANK STABILIZATION SECTION



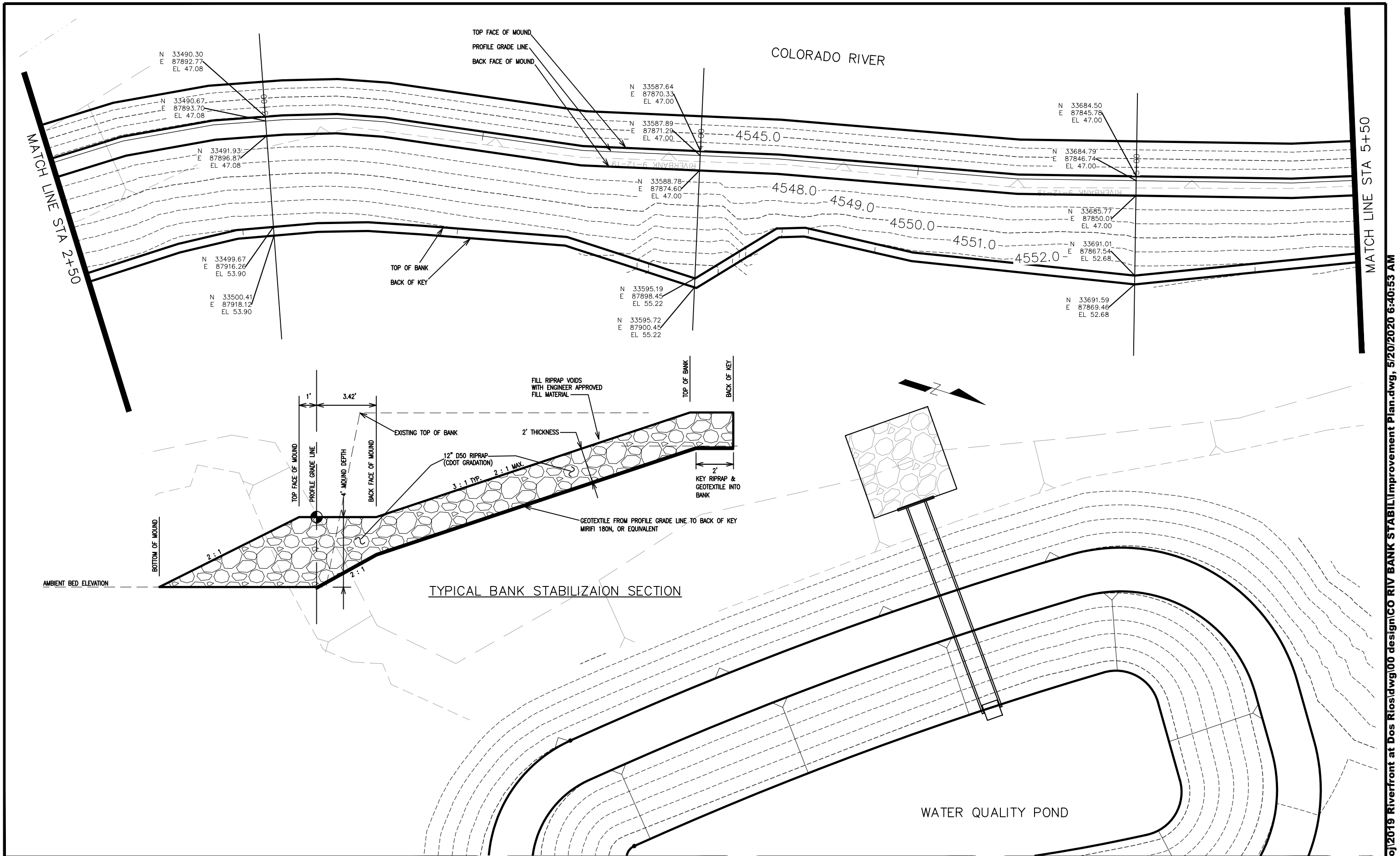
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△		
△		
△		
△		

DRAWN BY	JCS	DATE	2019
DESIGNED BY	JCS	DATE	2019
CHECKED BY	BH	DATE	2019
APPROVED BY	TCP	DATE	2019



PUBLIC WORKS
ENGINEERING DIVISION

COLORADO RIVER BANK STABILIZATION
IMPROVEMENT PLAN - I-1
May 20, 2020



REVISION	DESCRIPTION	DATE
REVISION		
REVISION		
REVISION		
REVISION		

DRAWN BY	JCS	DATE	2019
DESIGNED BY	JCS	DATE	2019
CHECKED BY	BH	DATE	2019
APPROVED BY	TCP	DATE	2019

SCALES:
PLAN & PROFILE
0 5 10 20
HORIZONTAL
0 NA
VERTICAL
NA



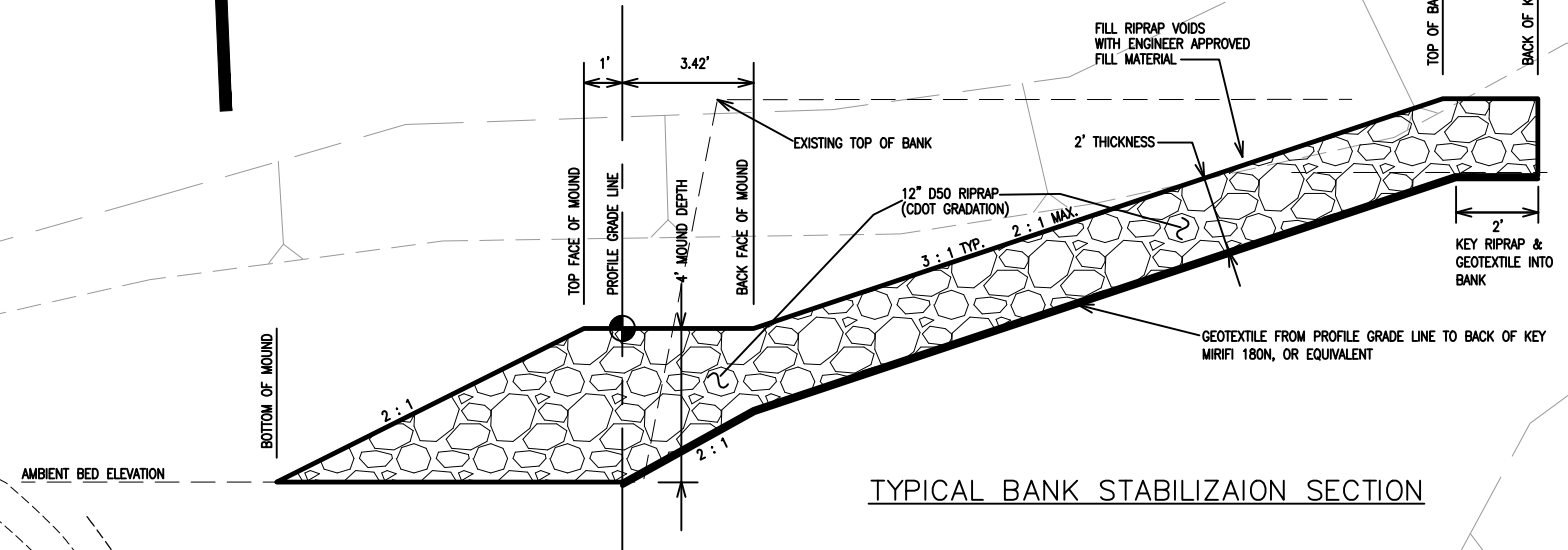
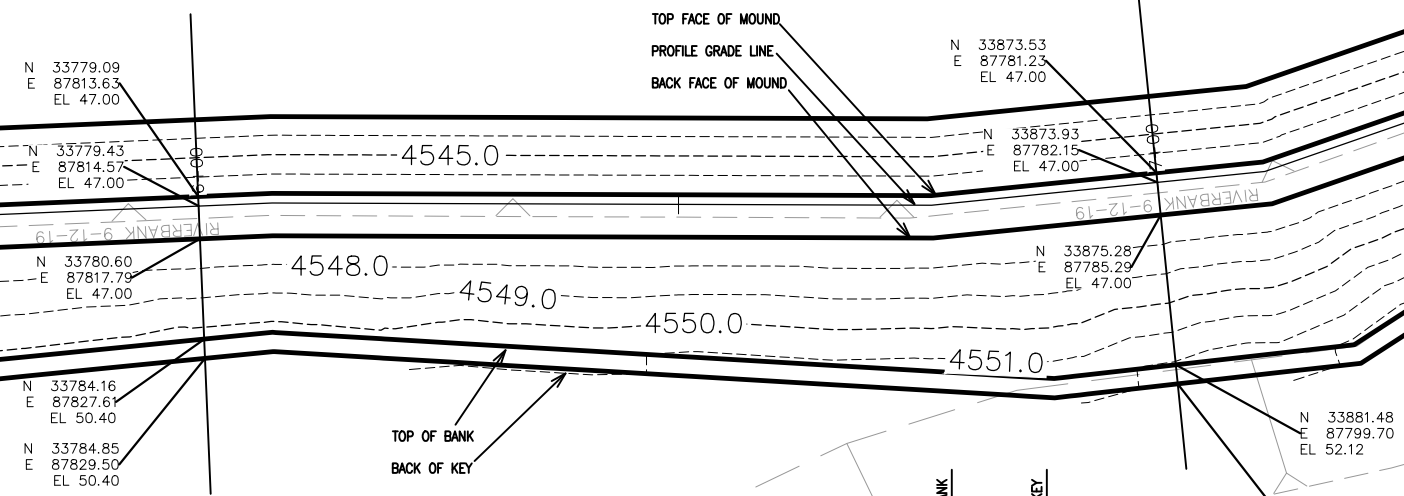
PUBLIC WORKS
ENGINEERING DIVISION

COLORADO RIVER BANK STABILIZATION
IMPROVEMENT PLAN - I-2
May 20, 2020

COLORADO RIVER

MATCH LINE STA 5+50

MATCH LINE STA 7+50



TYPICAL BANK STABILIZATION SECTION

WATER QUALITY POND

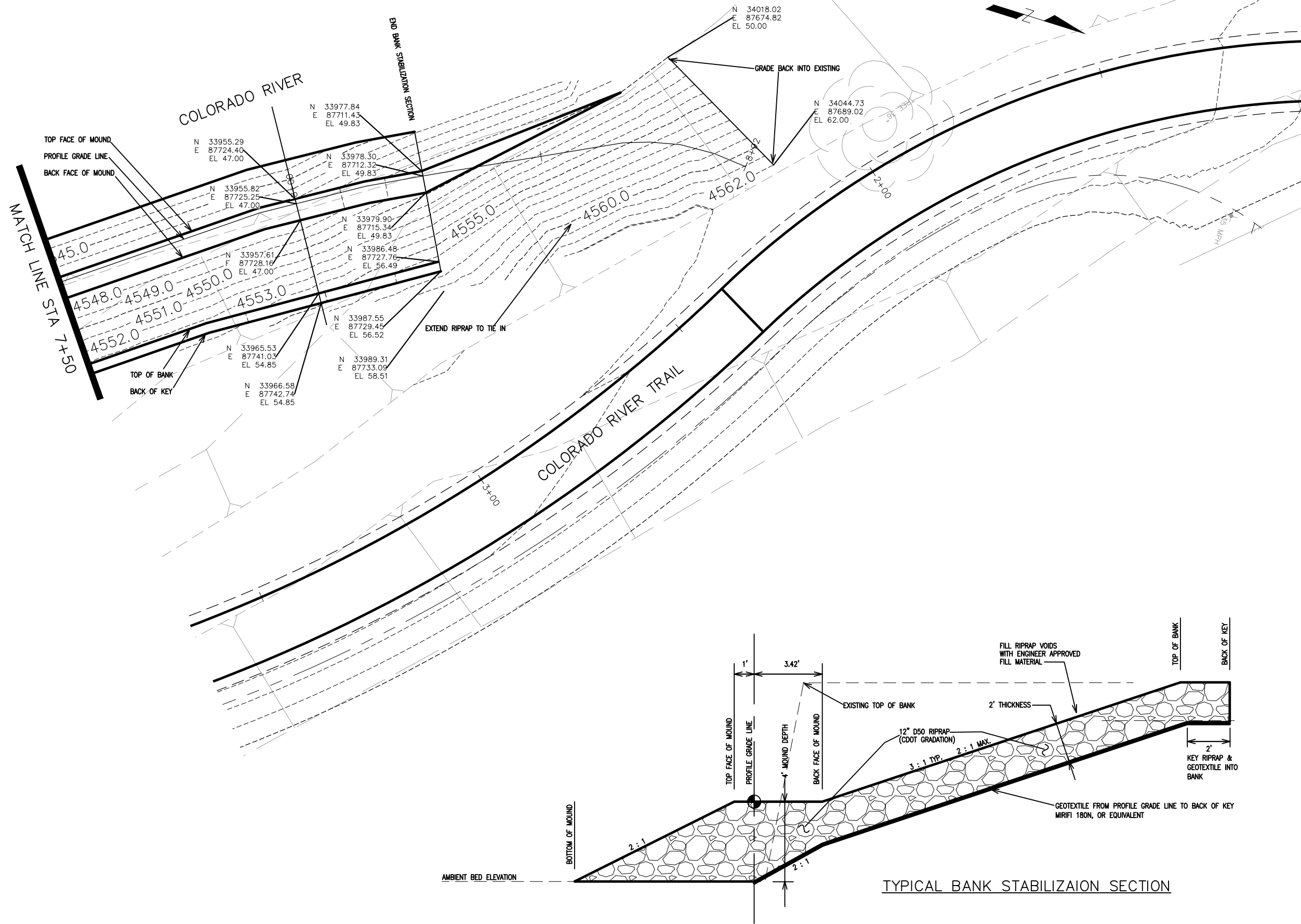
COLORADO RIVER TRAIL

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
REVISION Δ			JCS	2019	PLAN & PROFILE
REVISION Δ			JCS	2019	
REVISION Δ			BH	2019	
REVISION Δ			TCP	2019	



PUBLIC WORKS
ENGINEERING DIVISION

COLORADO RIVER BANK STABILIZATION
IMPROVEMENT PLAN - I-3
May 20, 2020



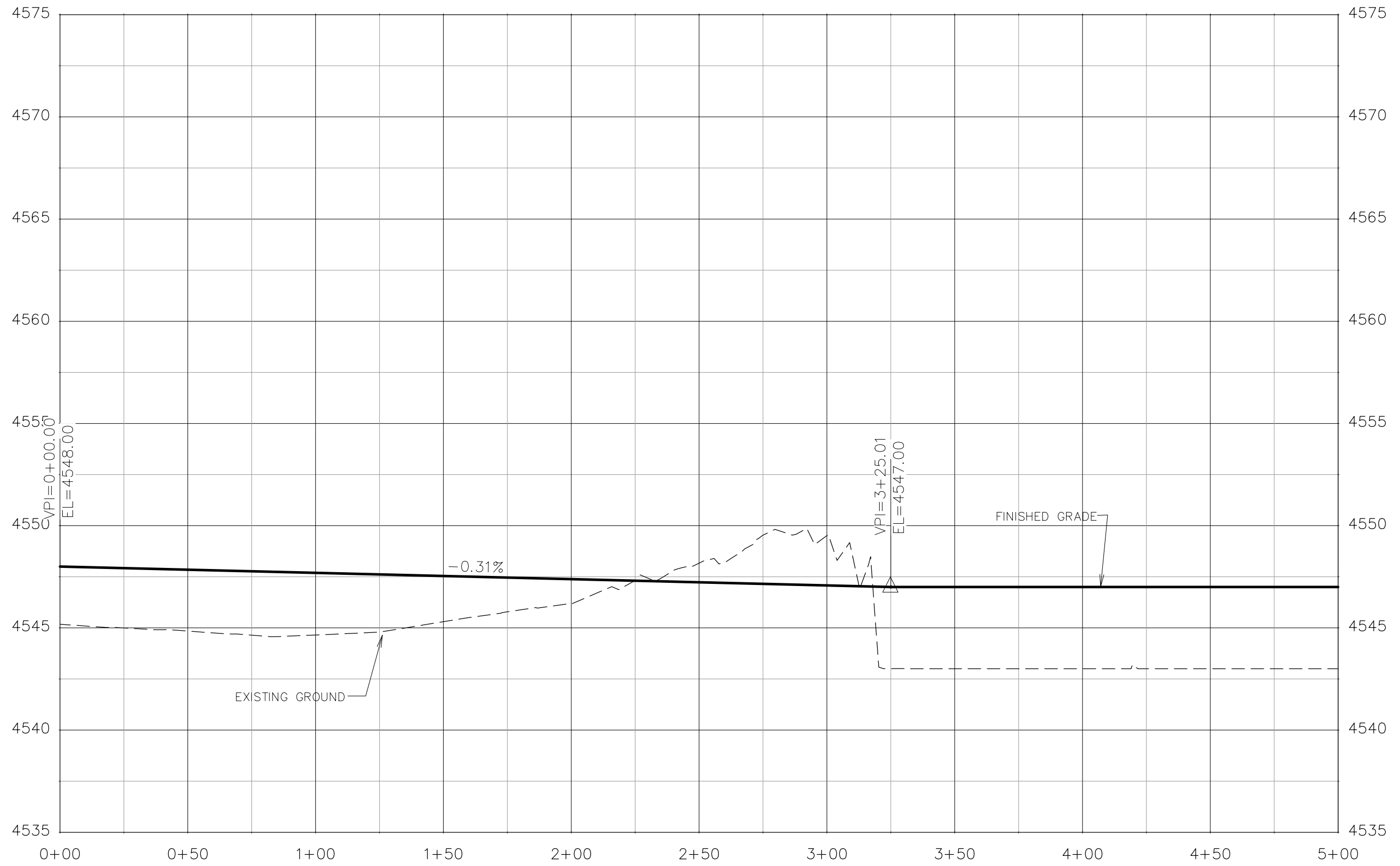
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△			JCS	2019		HORIZONTAL 1" = 20'
△			BH	2019		VERTICAL 1" = 10'
△			TCP	2019		



PUBLIC WORKS
ENGINEERING DIVISION

COLORADO RIVER BANK STABILIZATION
IMPROVEMENT PLAN – I-4
May 20, 2020

N:\Landproj\2019 Riverfront at Dos Rios\dwg\00 design\CO RIV BANK STABIL\Improvement Plan.dwg, 5/20/2020 6:41:08 AM



PROFILE GRADE LINE BANK STABILIZATION

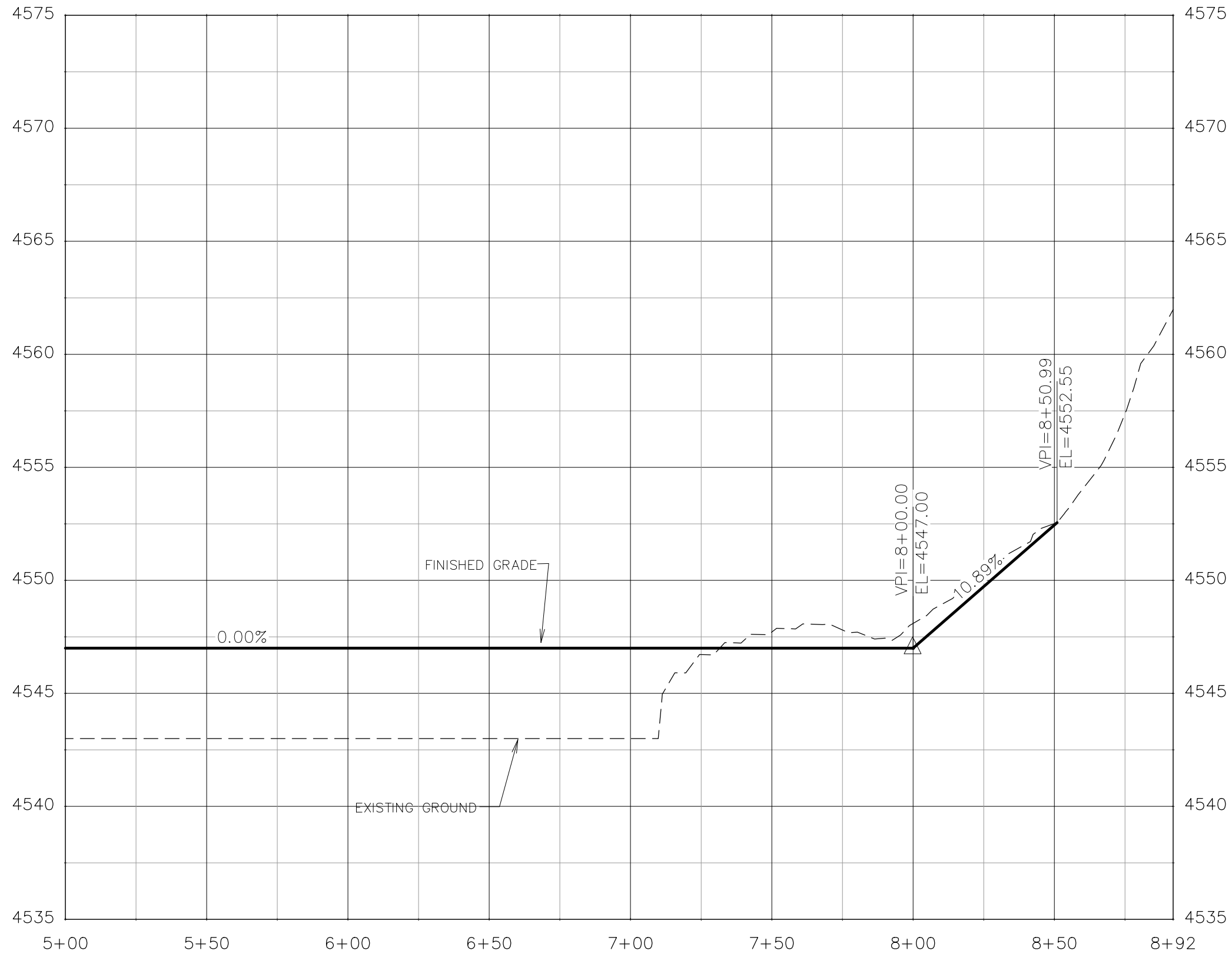
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
△			JCS	2019
△			JCS	2019
△			BH	2019
△			TCP	2019

SCALES:	
PLAN & PROFILE	
HORIZONTAL	1" = 20'
VERTICAL	1" = 5'



PUBLIC WORKS
ENGINEERING DIVISION

COLORADO RIVER BANK STABILIZATION
BANK STABILIZATION PROFILE - 1
May 20, 2020



PROFILE GRADE LINE BANK STABILIZATION

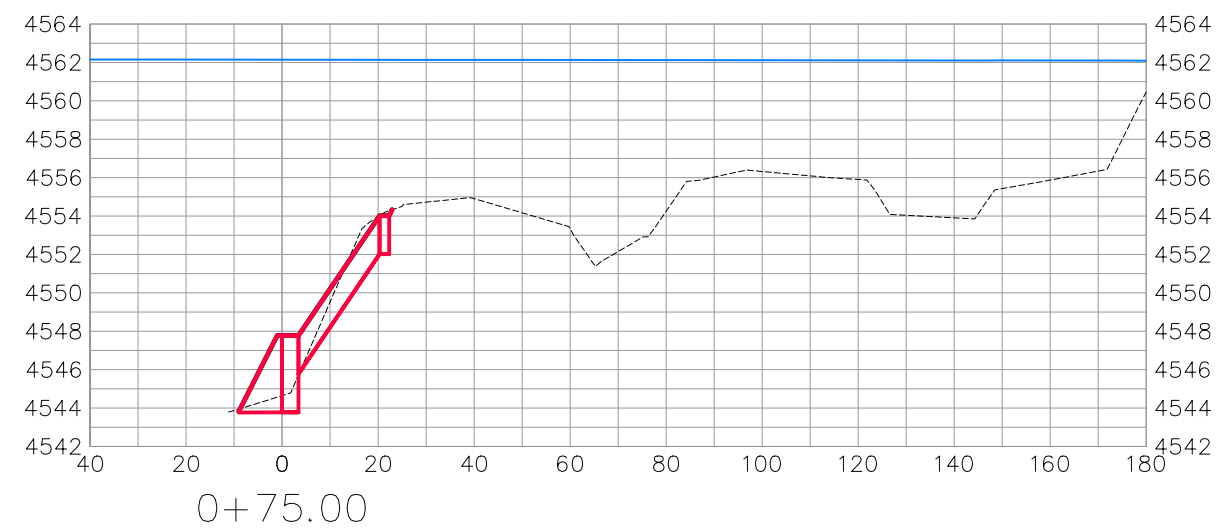
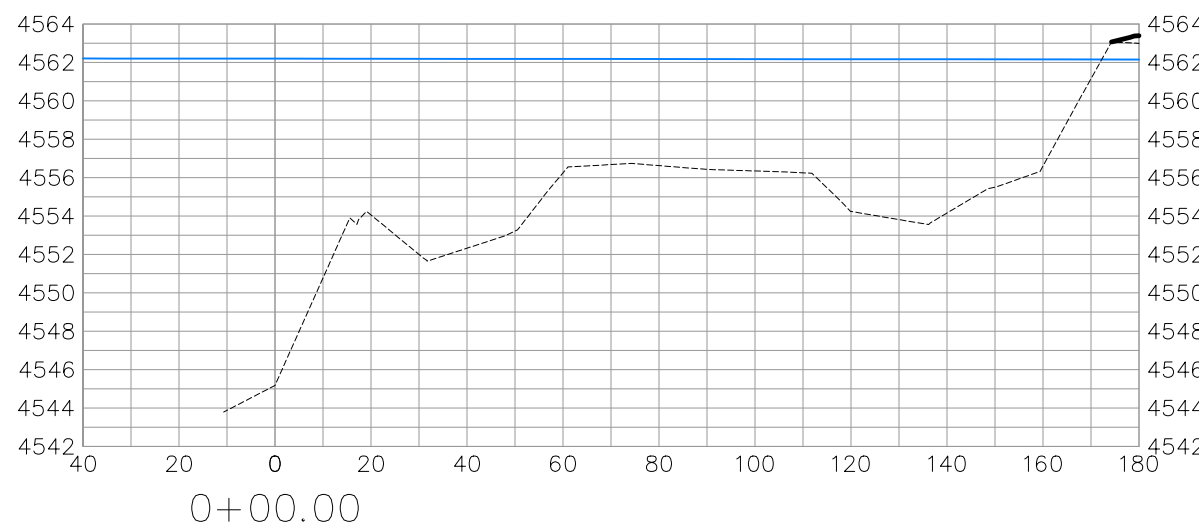
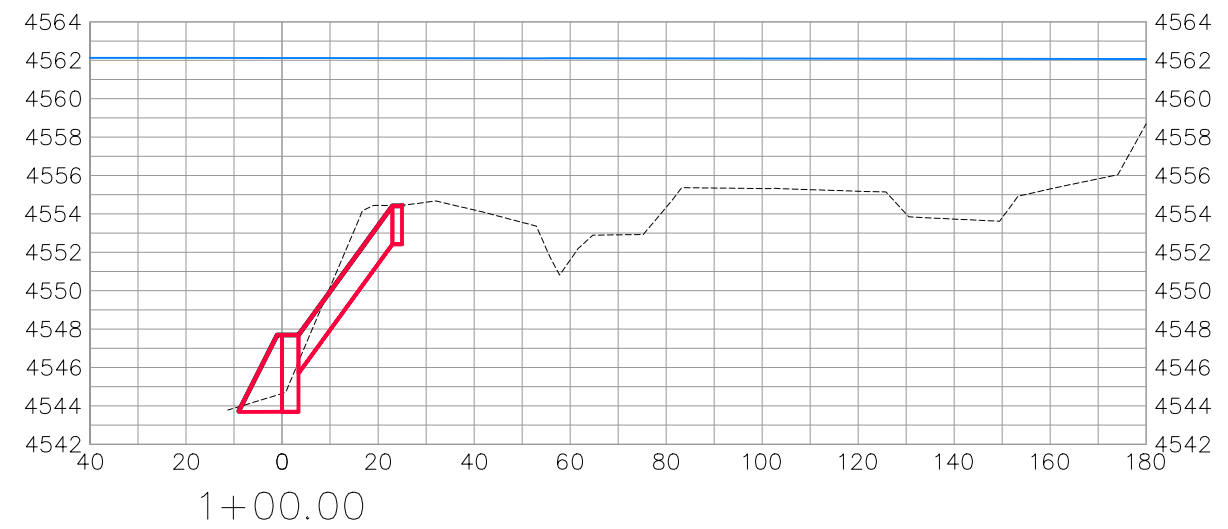
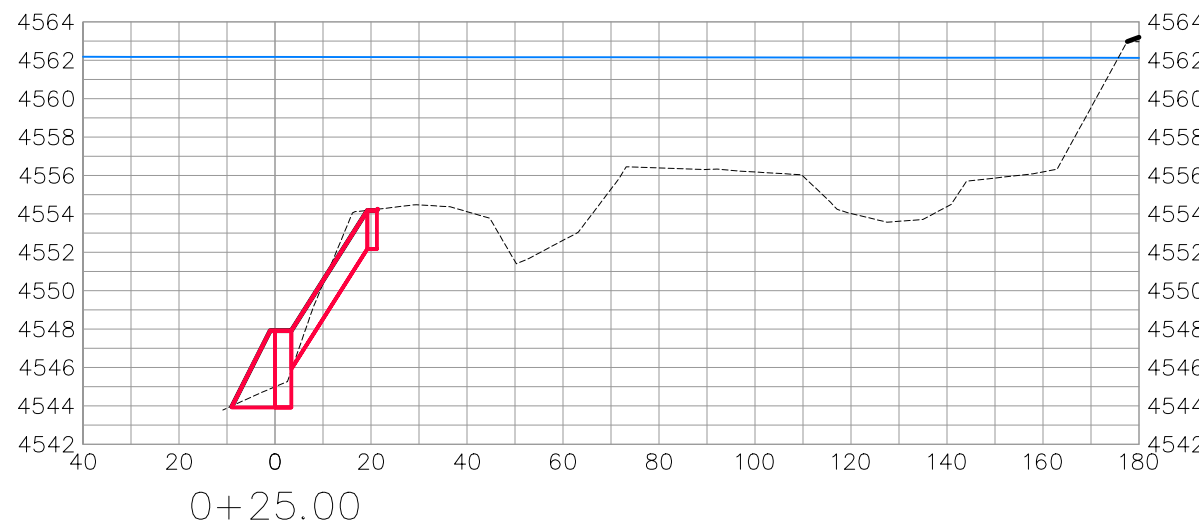
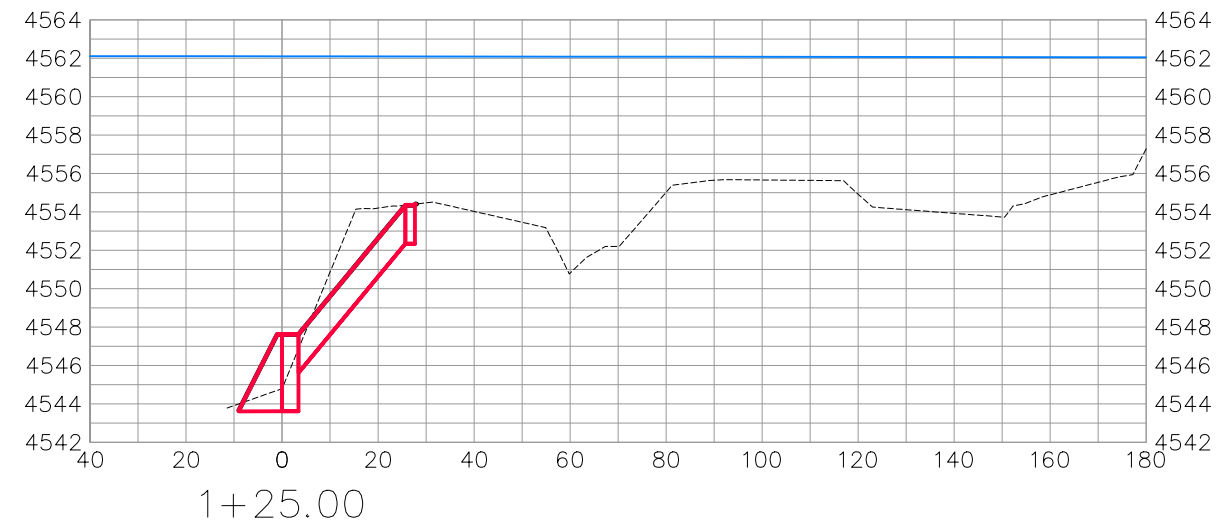
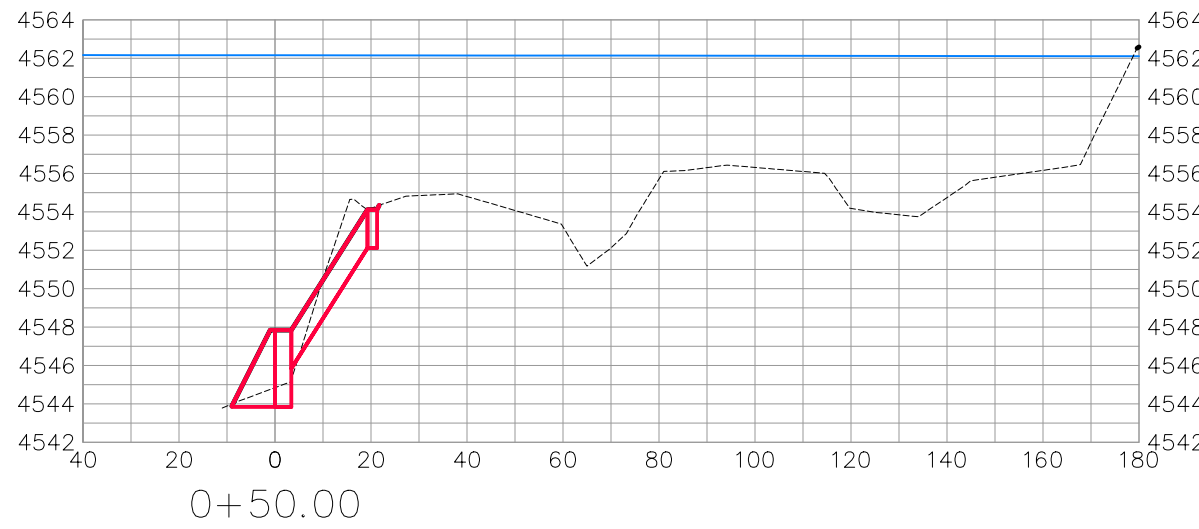
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
△			JCS	2019
△			JCS	2019
△			BH	2019
△			TCP	2019

SCALES:	
0 10 20 40	HORIZONTAL
0 1.25 2.5 5	VERTICAL



PUBLIC WORKS
ENGINEERING DIVISION

COLORADO RIVER BANK STABILIZATION
BANK STABILIZATION PROFILE - 2
May 20, 2020



BANK STABILIZATION

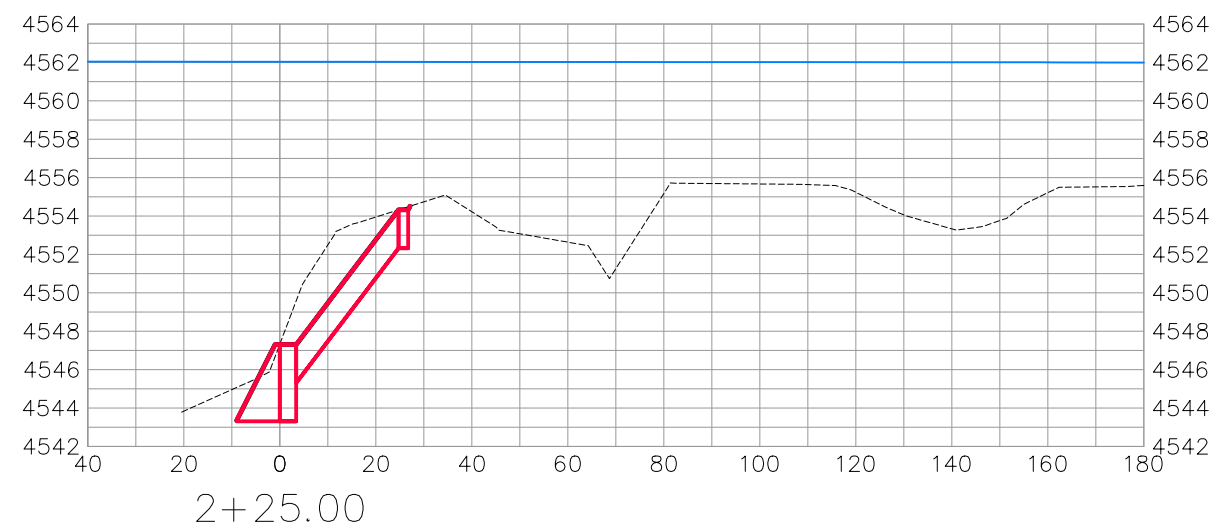
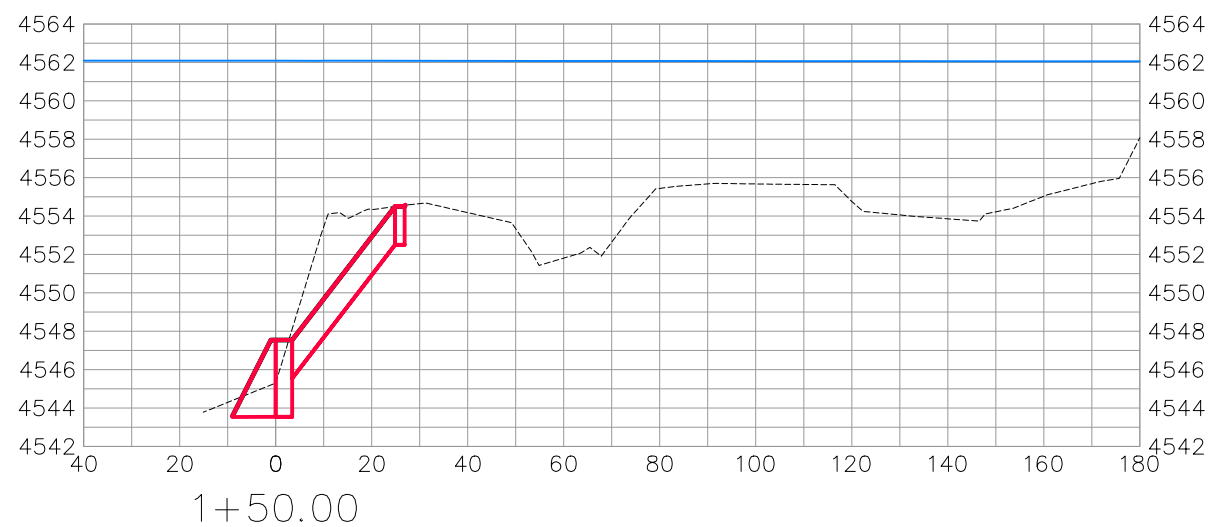
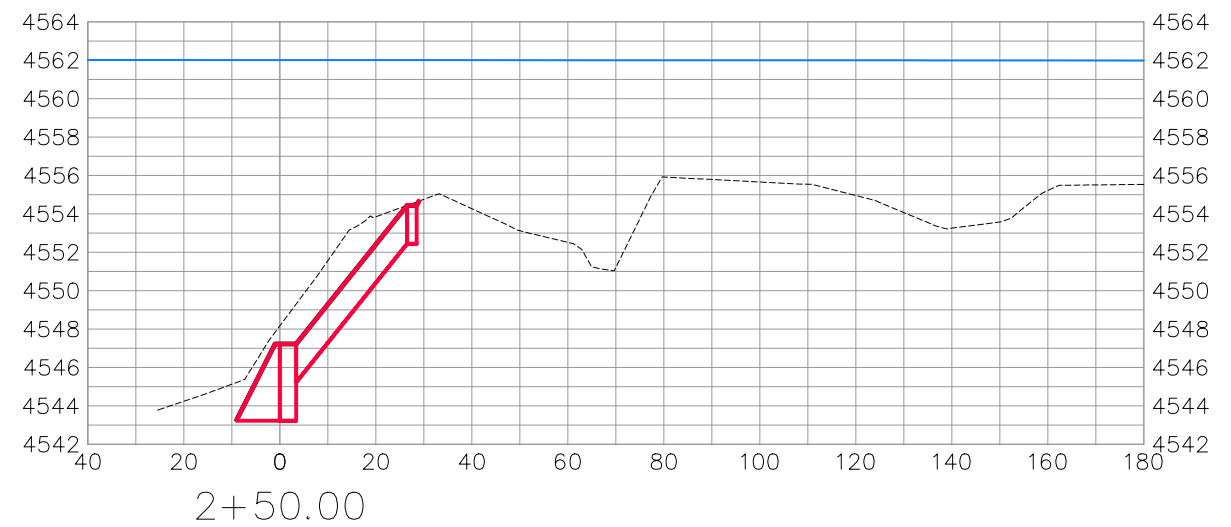
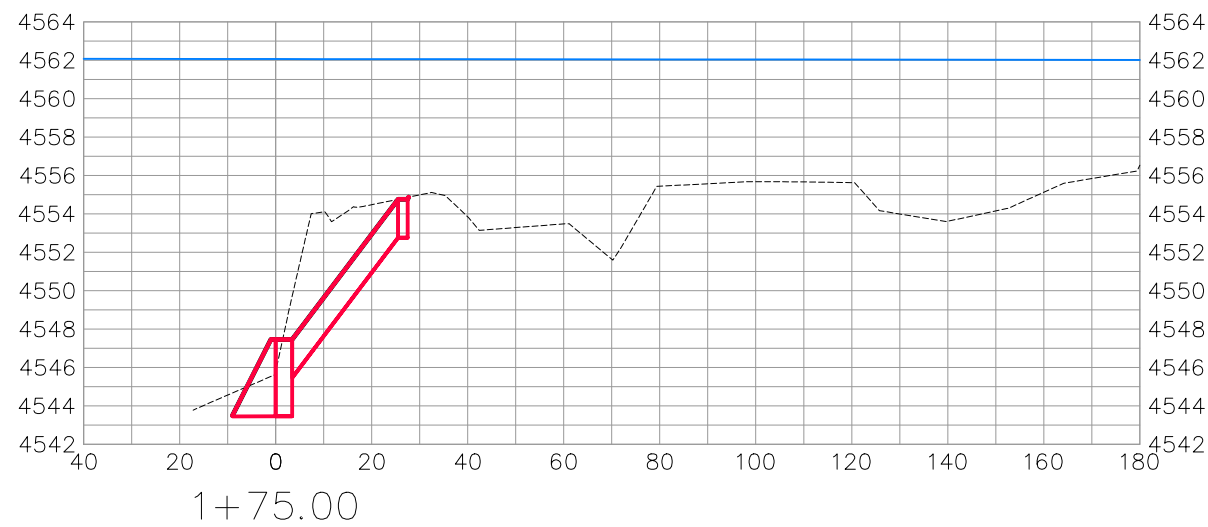
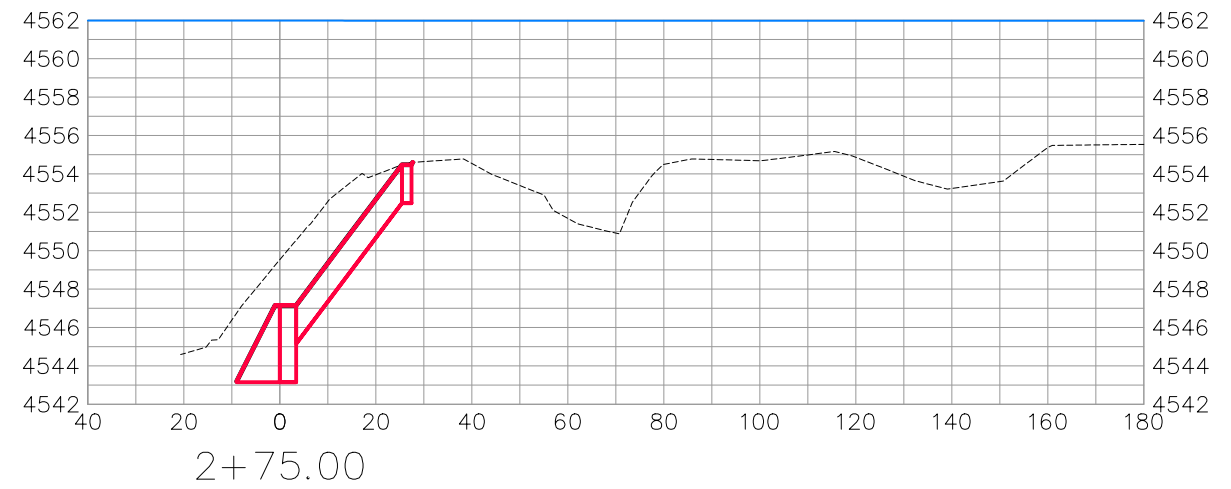
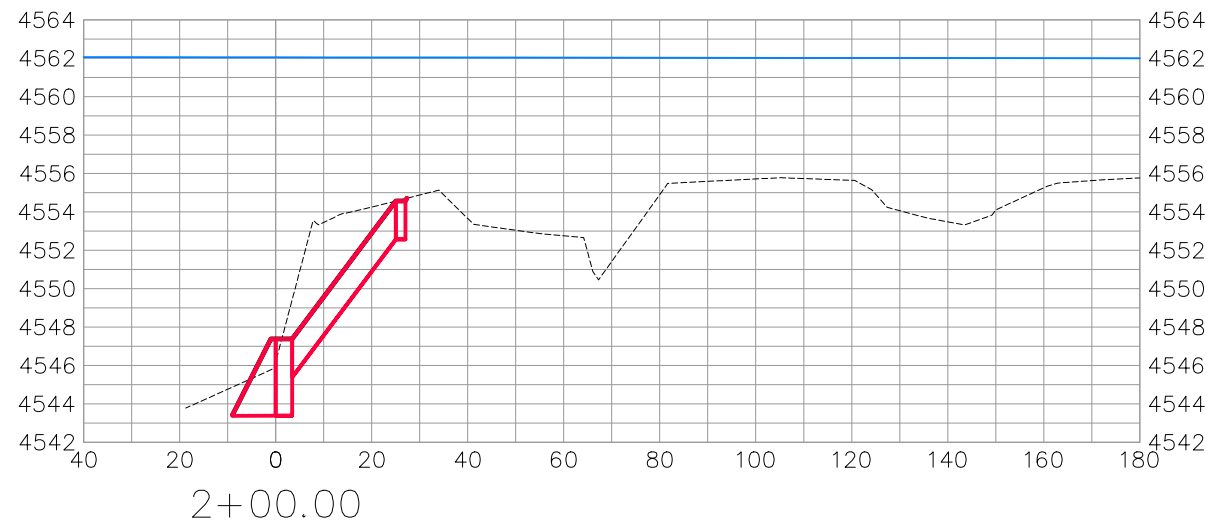
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
△			JCS	2019
△			JCS	2019
△			BH	2019
△			TCP	2019

SCALES:	
PLAN & PROFILE	0 10 20 40
VERTICAL	0 2.5 10



PUBLIC WORKS
ENGINEERING DIVISION

COLORADO RIVER BANK STABILIZATION
BANK STABILIZATION SECTIONS-1
May 20, 2020



BANK STABILIZATION

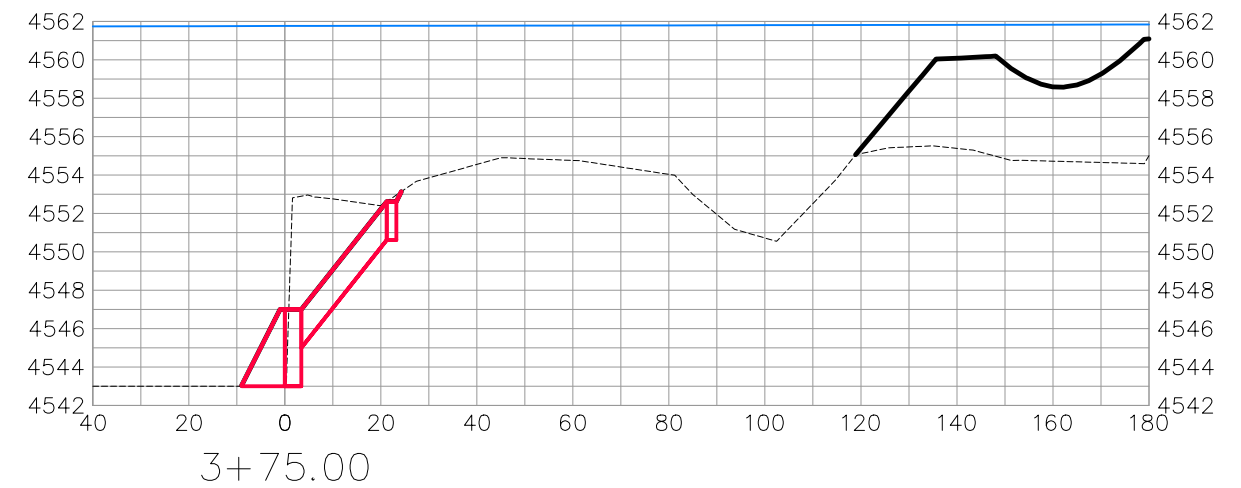
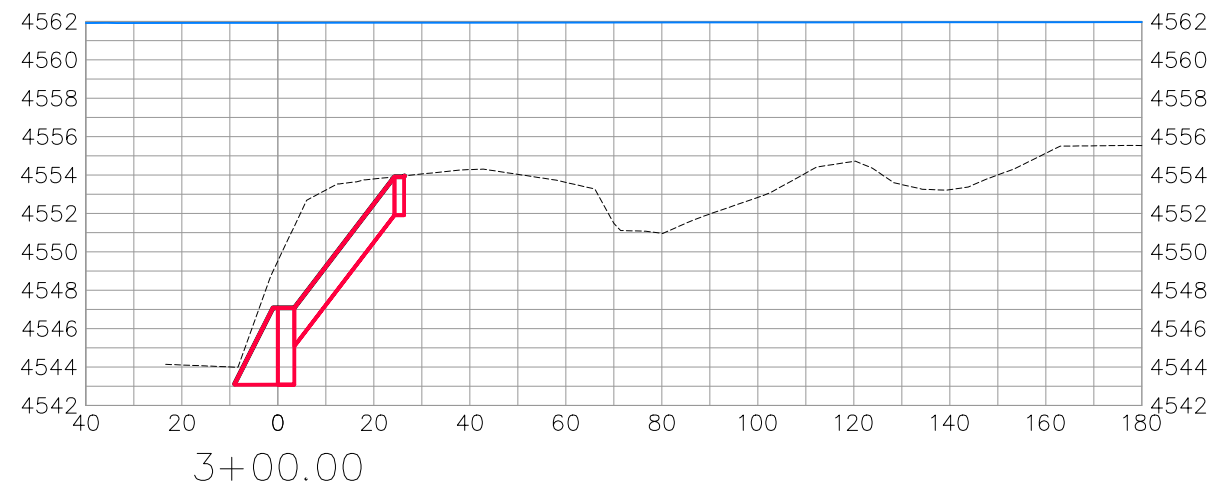
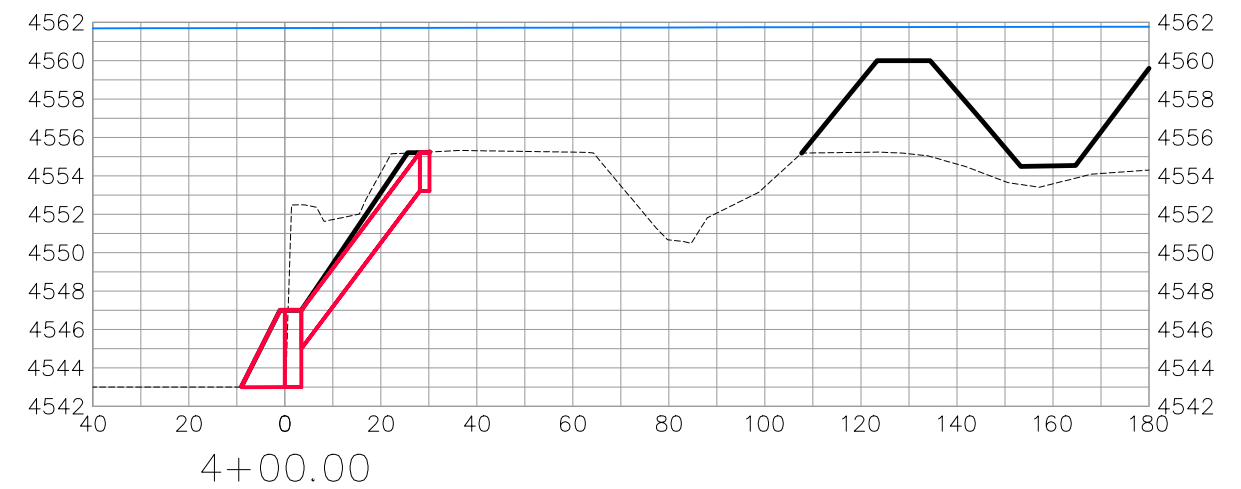
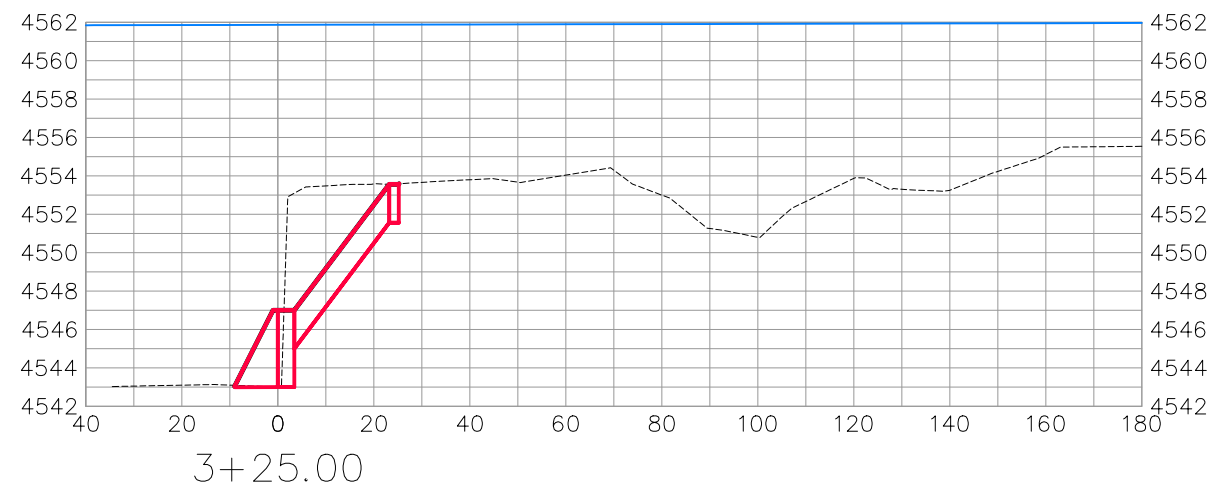
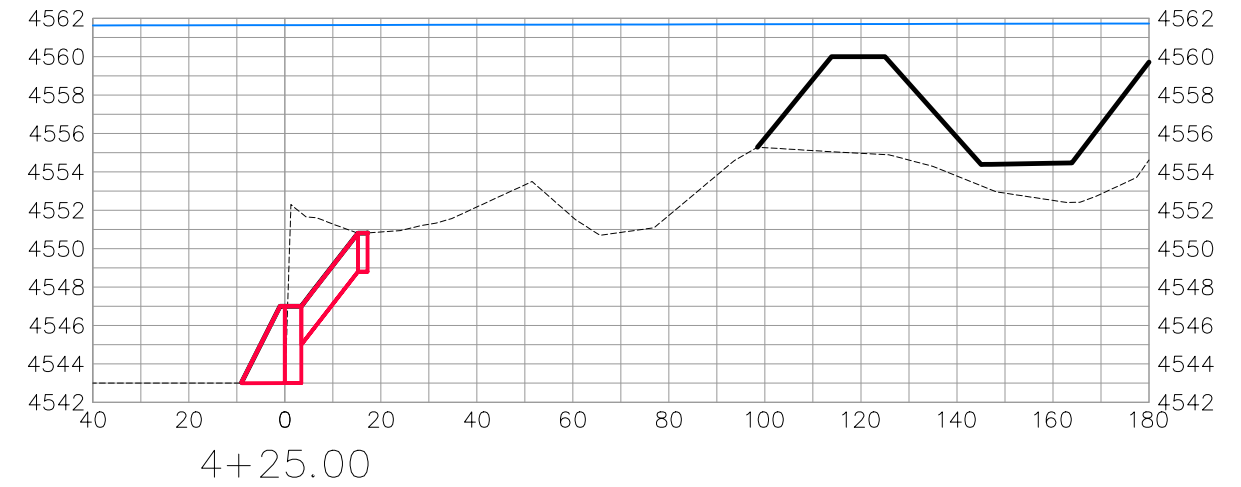
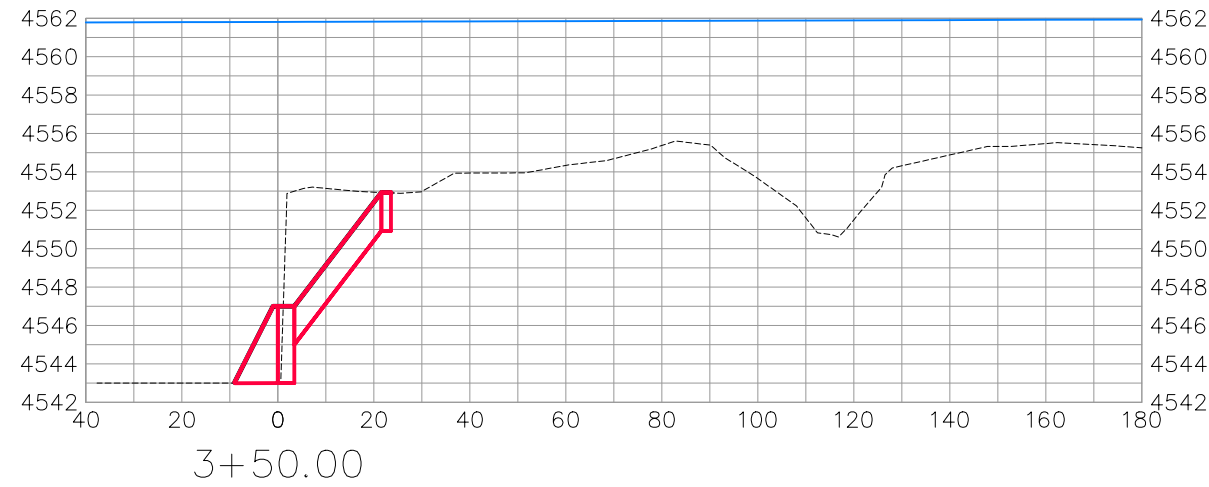
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
△			JCS	2019
△			JCS	2019
△			BH	2019
△			TCP	2019

SCALES:	
PLAN & PROFILE	
HORIZONTAL	1" = 40'
VERTICAL	1" = 2.5'



PUBLIC WORKS
ENGINEERING DIVISION

COLORADO RIVER BANK STABILIZATION
BANK STABILIZATION SECTIONS-2
May 20, 2020



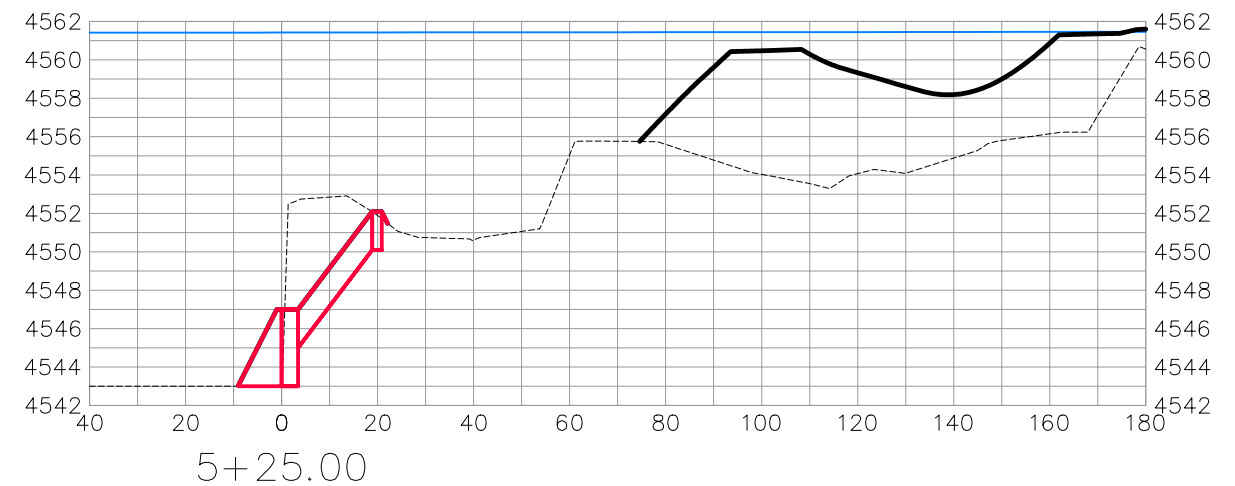
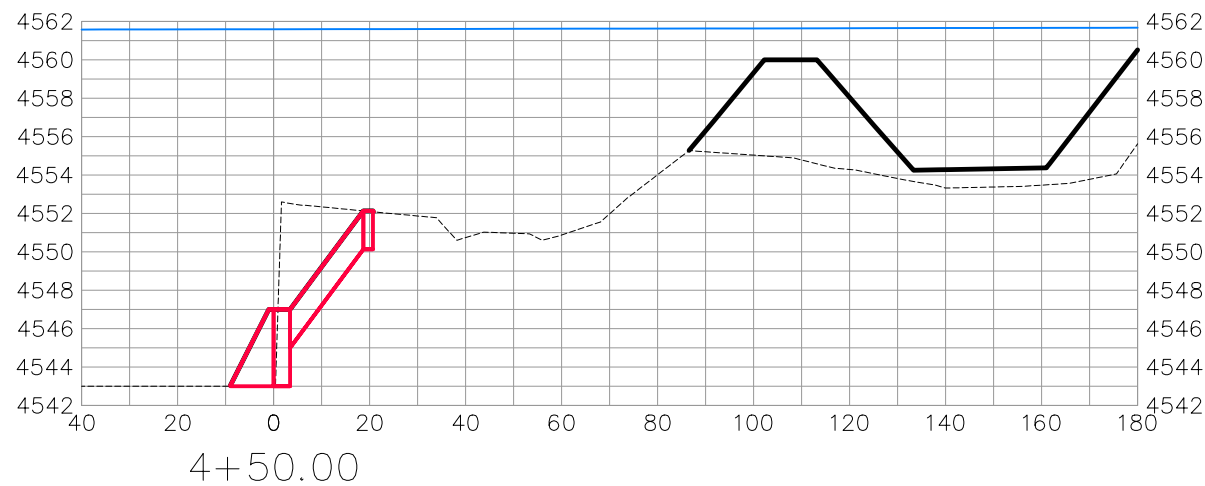
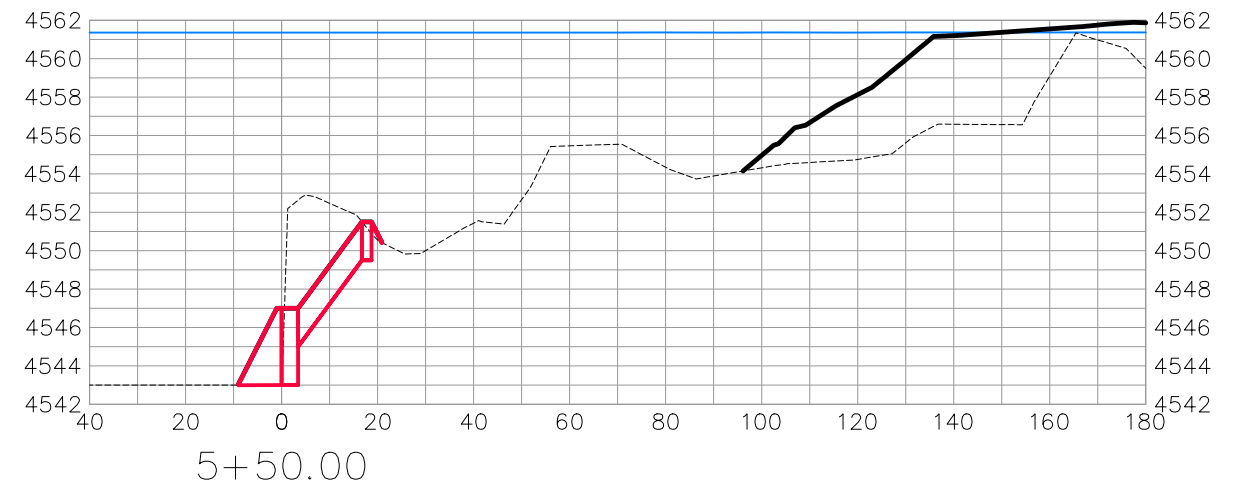
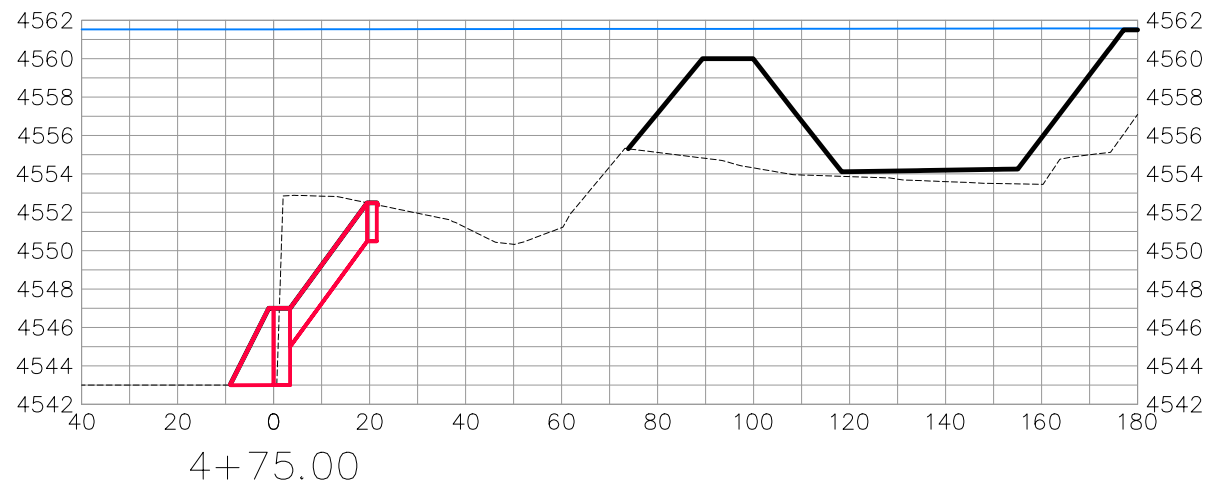
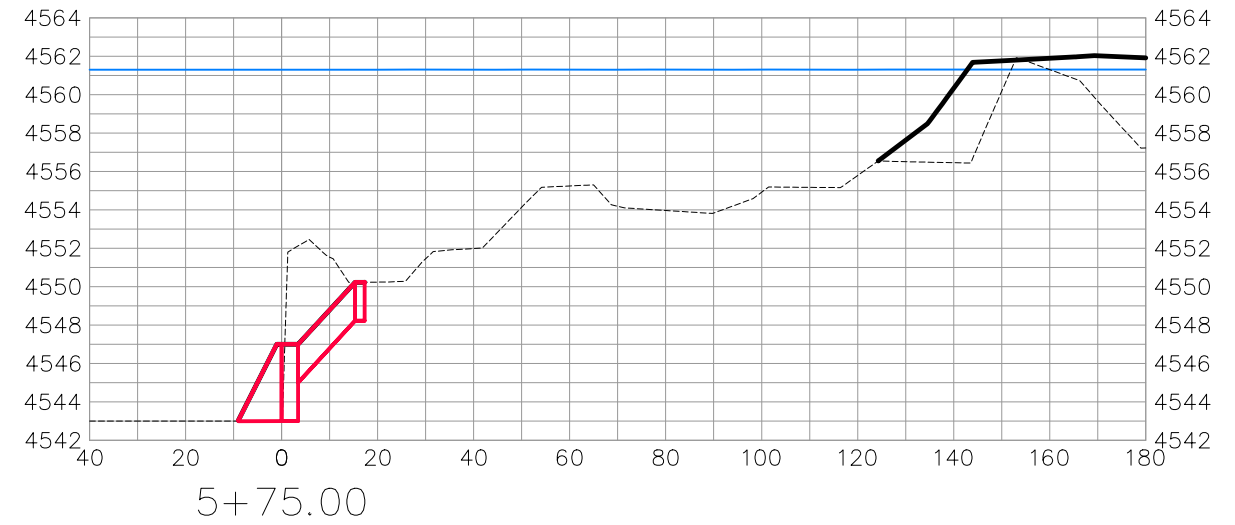
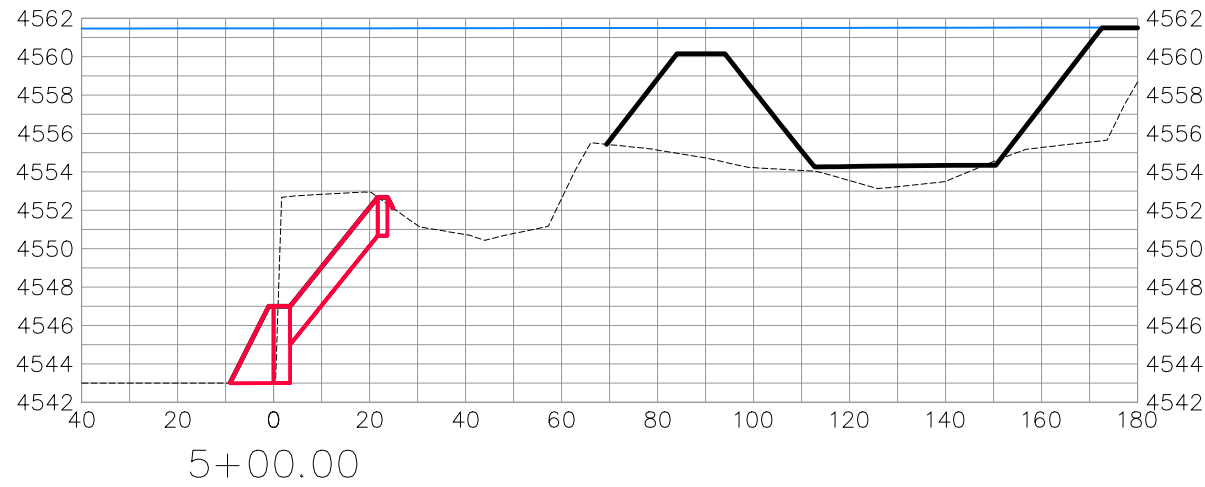
BANK STABILIZATION

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALES:
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REVISION			JCS	2019	0 10 20 40 HORIZONTAL
REVISION			BH	2019	0 2.5 5 10 VERTICAL
REVISION			TCP	2019	



PUBLIC WORKS
ENGINEERING DIVISION

COLORADO RIVER BANK STABILIZATION
BANK STABILIZATION SECTIONS-3
May 20, 2020



BANK STABILIZATION

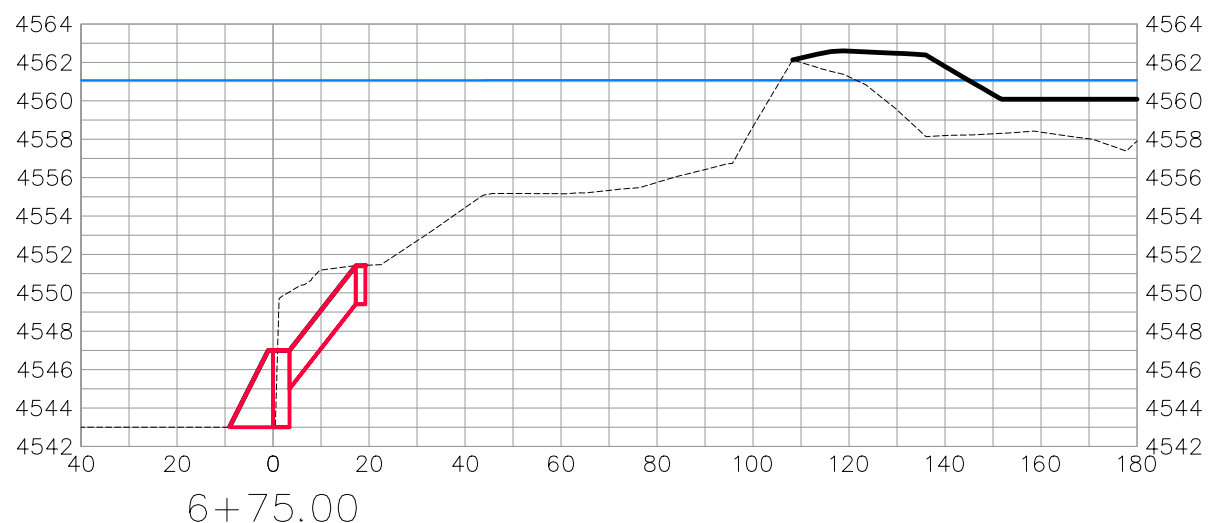
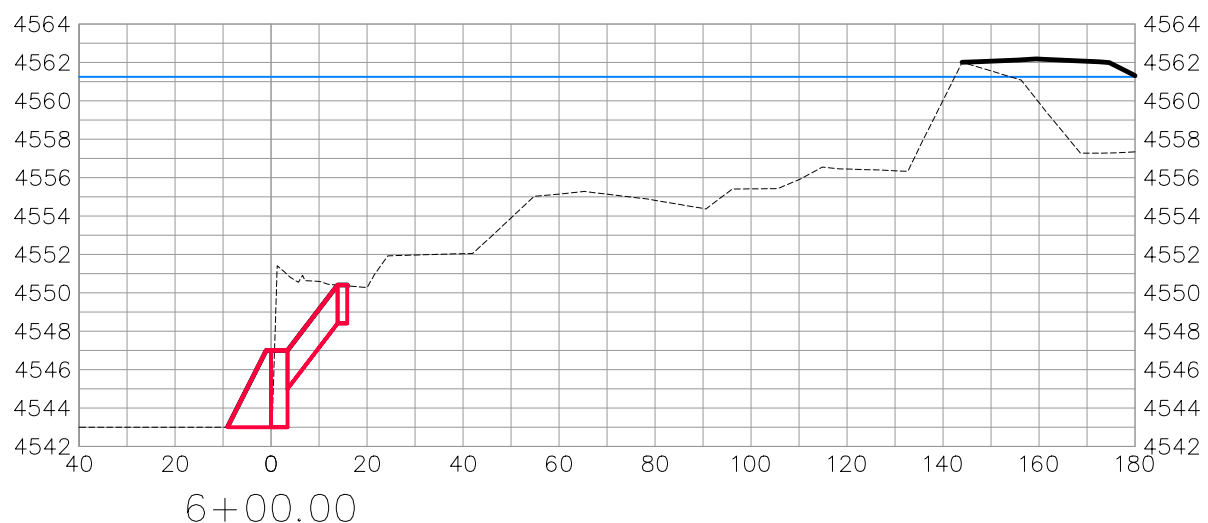
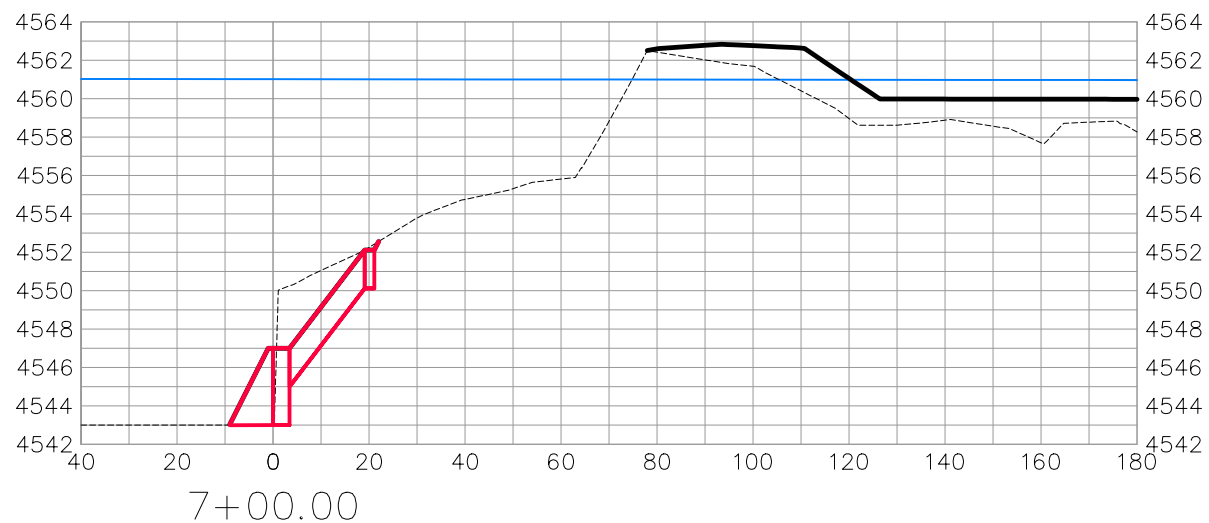
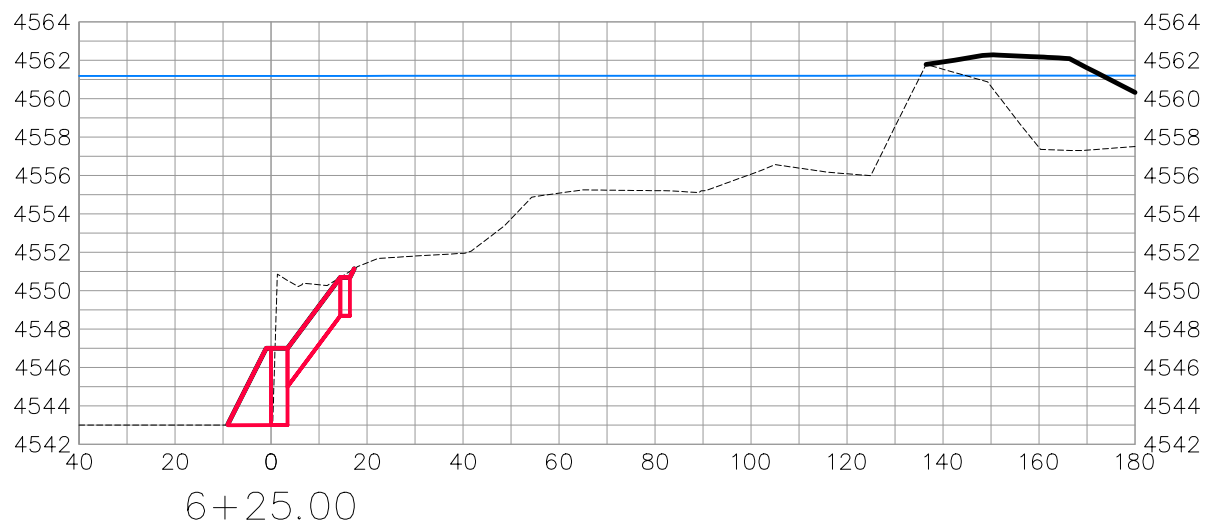
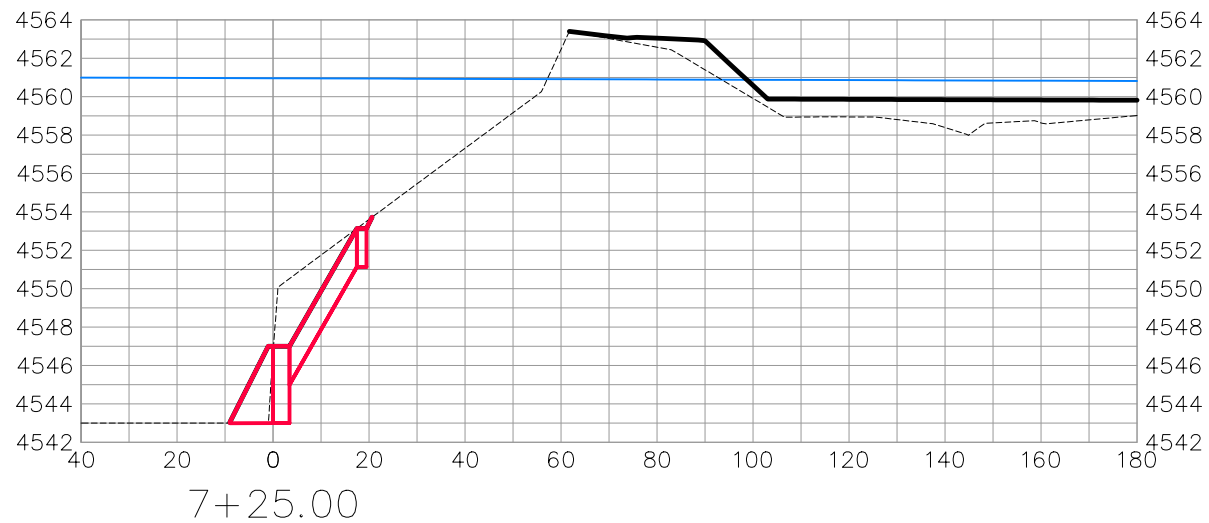
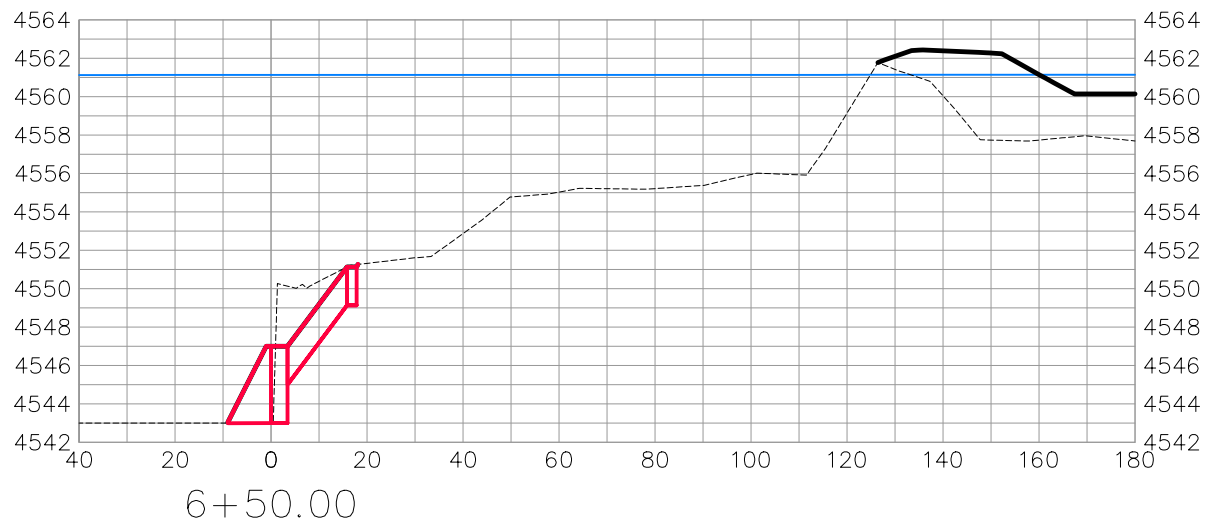
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
△			JCS	2019
△			JCS	2019
△			BH	2019
△			TCP	2019

SCALES:	
0	40
HORIZONTAL	
0	10
VERTICAL	



PUBLIC WORKS
ENGINEERING DIVISION

COLORADO RIVER BANK STABILIZATION
BANK STABILIZATION SECTIONS-4
May 20, 2020



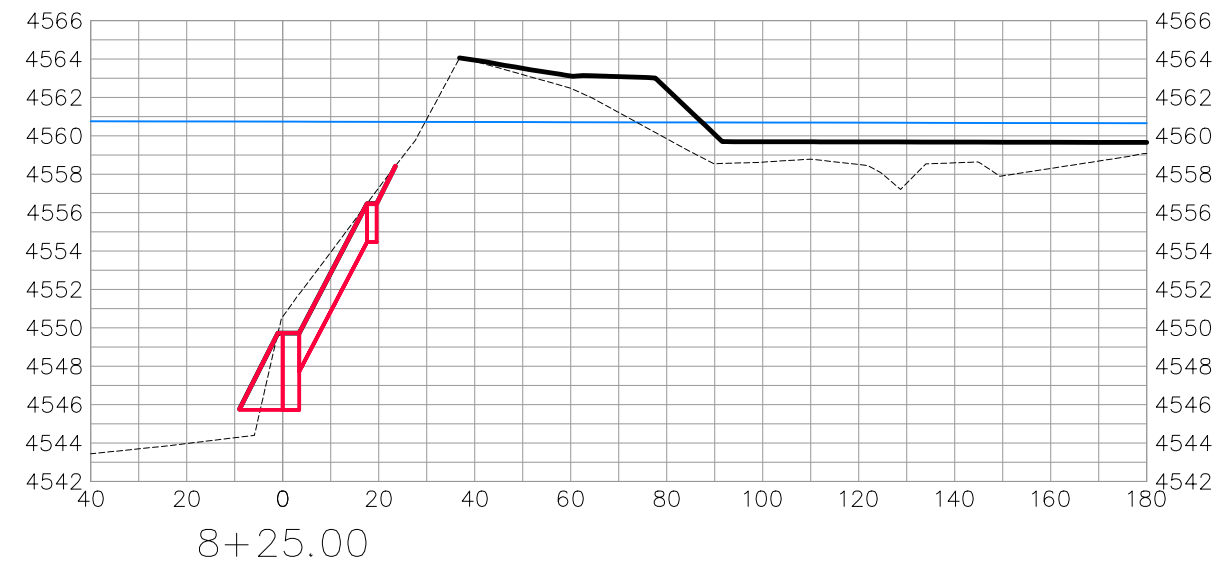
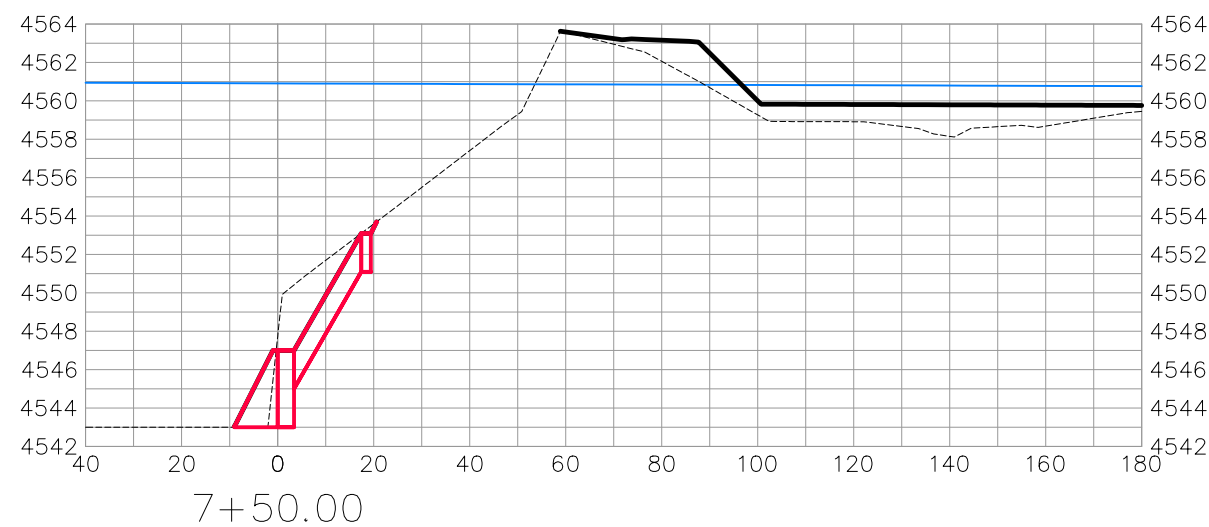
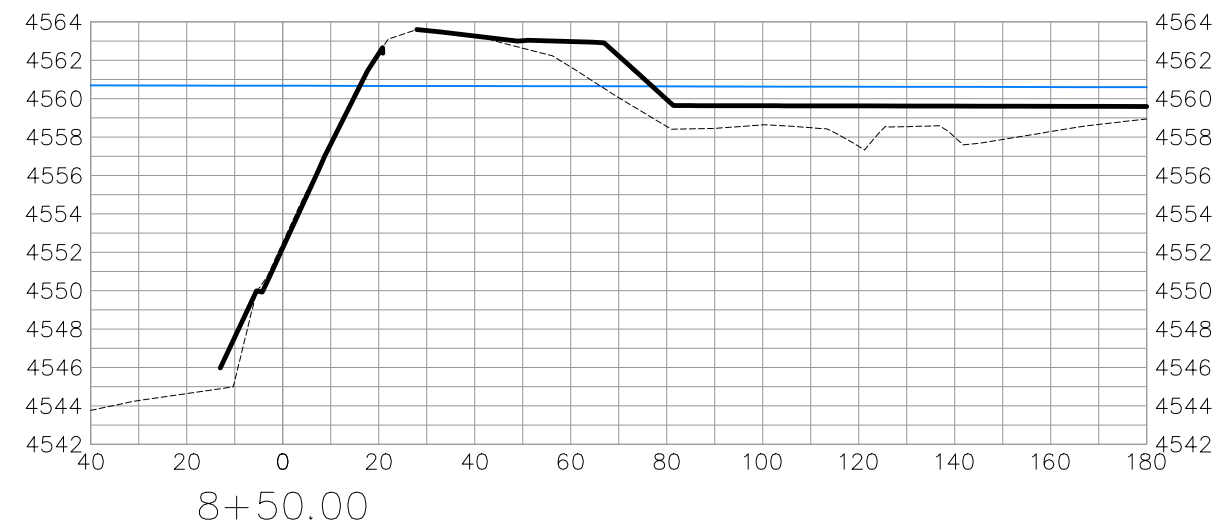
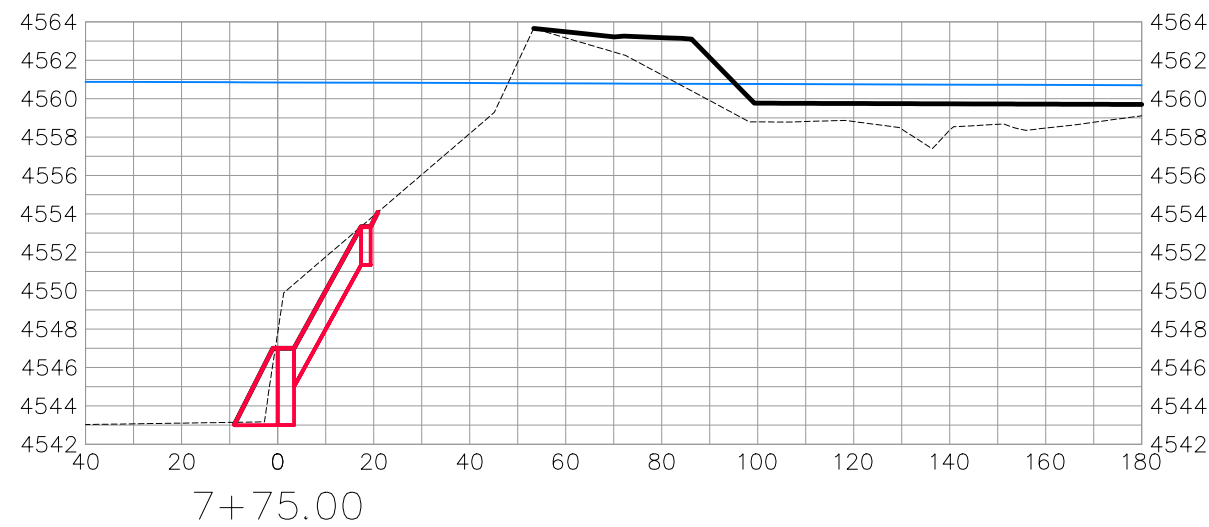
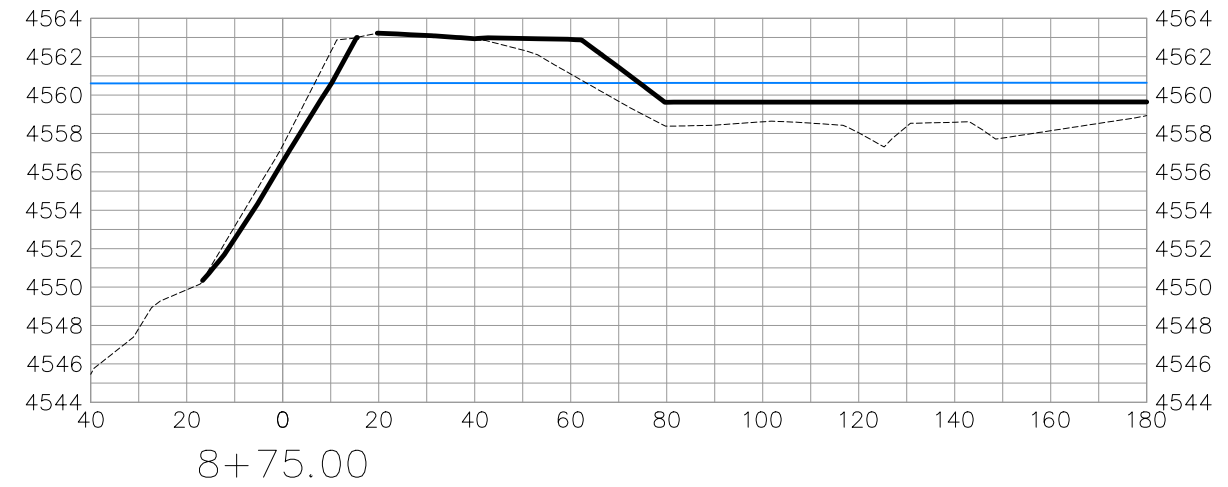
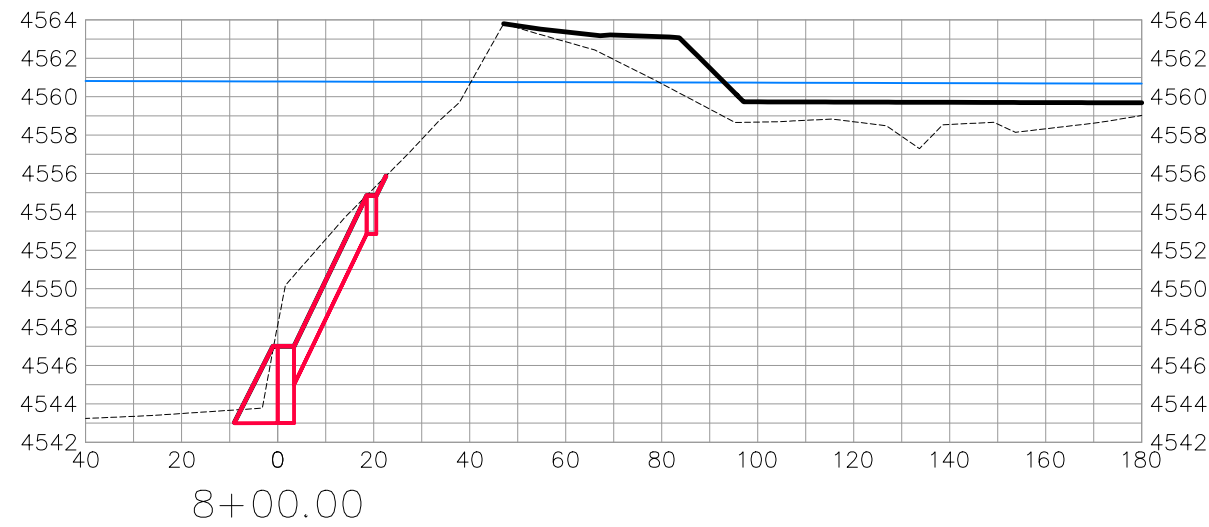
BANK STABILIZATION

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALES:
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△			JCS	2019	
△			BH	2019	
△			TCP	2019	



PUBLIC WORKS
ENGINEERING DIVISION

COLORADO RIVER BANK STABILIZATION
BANK STABILIZATION SECTIONS-5
May 20, 2020



BANK STABILIZATION

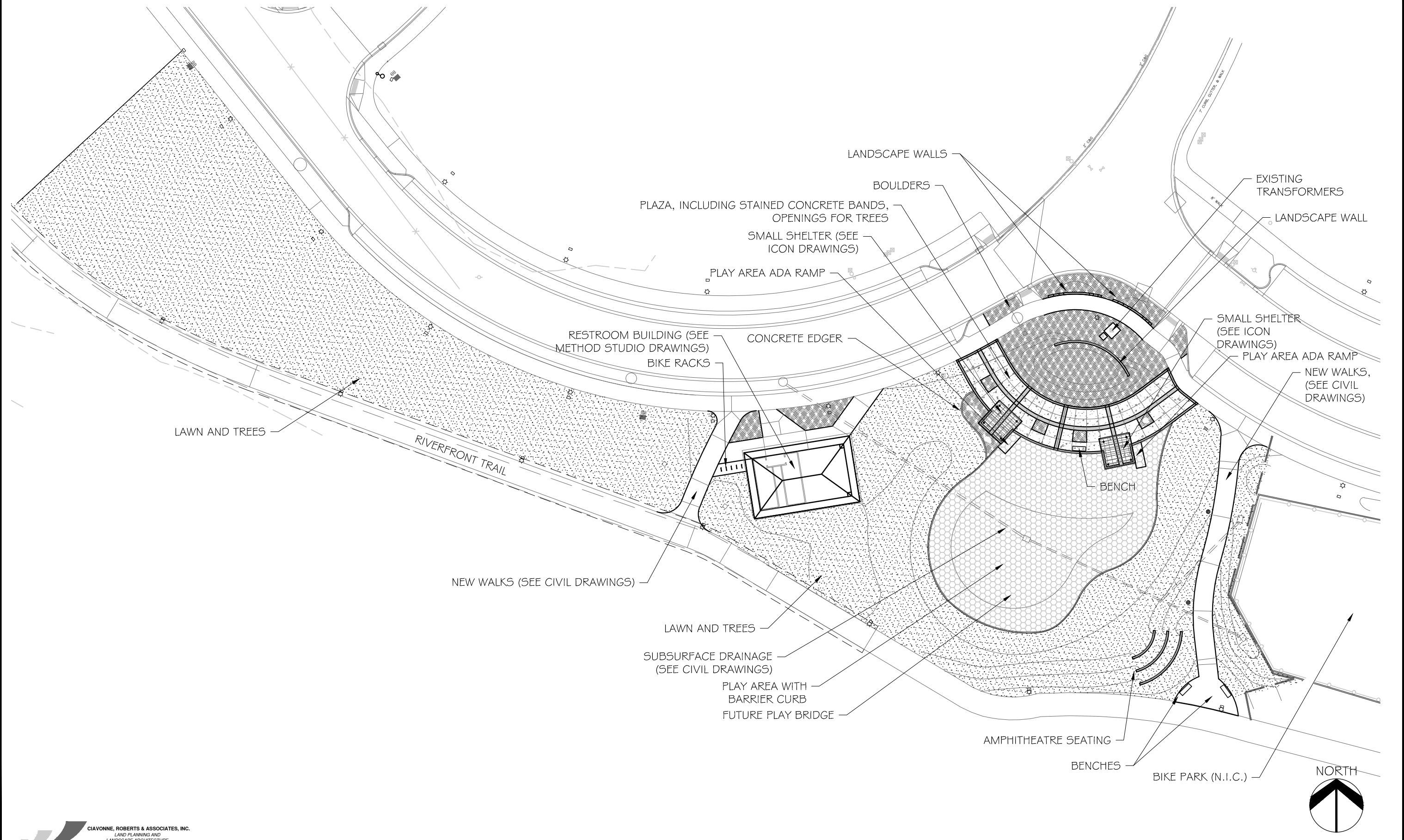
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REVISION			JCS	2019	PLAN & PROFILE
REVISION			JCS	2019	0 10 20 40 HORIZONTAL
REVISION			BH	2019	0 2.5 5 10 VERTICAL
REVISION			TCP	2019	



PUBLIC WORKS
ENGINEERING DIVISION

COLORADO RIVER BANK STABILIZATION
BANK STABILIZATION SECTIONS-6
May 20, 2020

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CIAVONNE, ROBERTS & ASSOCIATES, INC.
LAND PLANNING AND
LANDSCAPE ARCHITECTURE

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALES
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REVISION	△		MH	5-15-2020	
REVISION	△		CR	5-15-2020	
REVISION	△		TCP		
REVISION	△				

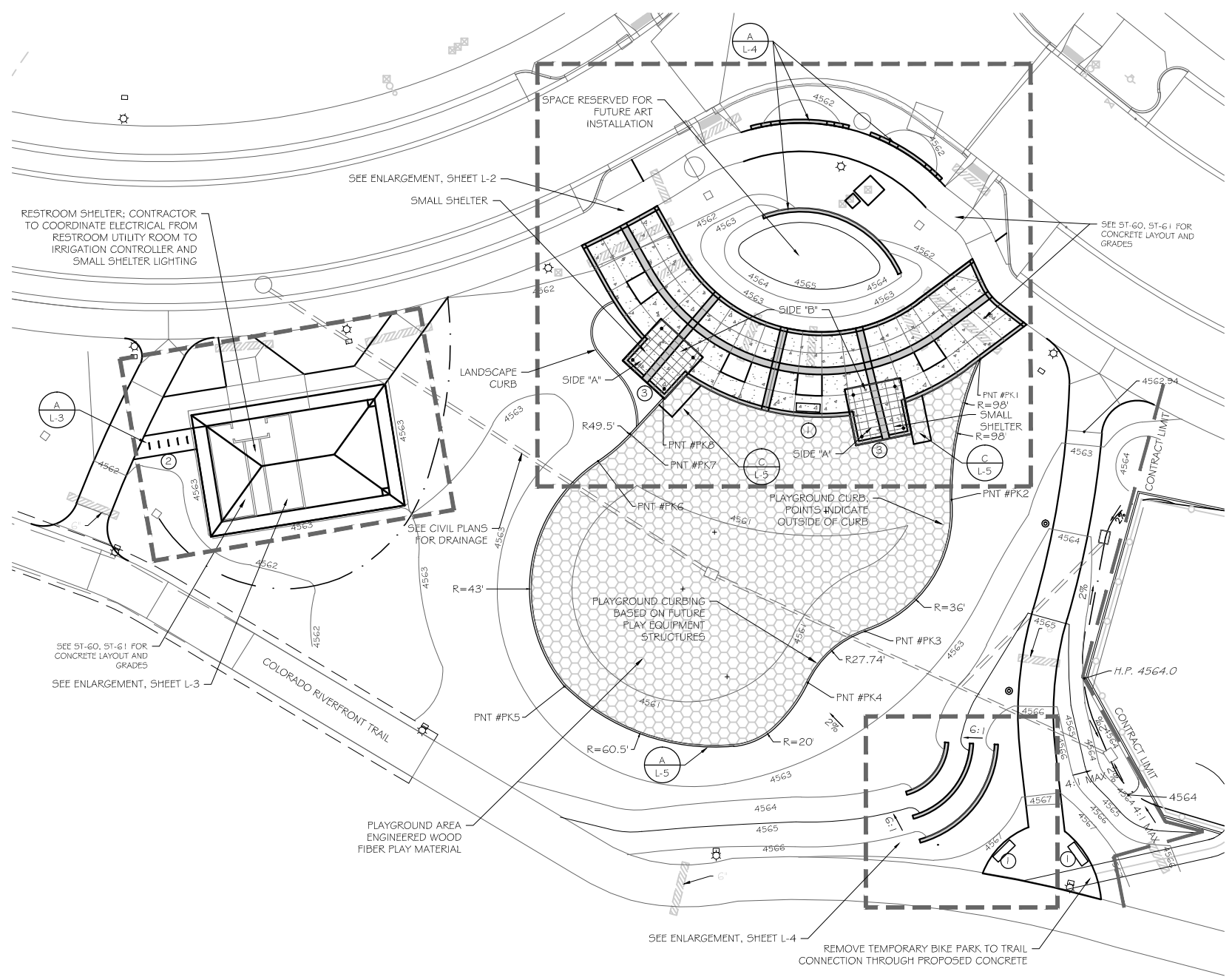


**PUBLIC WORKS
ENGINEERING DIVISION**

**THE RIVERFRONT AT DOS RIOS
DOS RIOS PARK OVERVIEW**

L-0

S:\Projects\2019 job numbers\1944 Dos Rios Park Multiple Projects\CRA.dwg, 5/18/2020 10:36:32 AM



PARK POINT TABLE

PNT#	DESC	N	E	ELEV.
PK1	PC	32866.8	89265.3	4562.36 (MATCH)
PK2	PT	32827.2	89257.3	4562.30
PK3	PC	32790.1	89232.9	4562.30
PK4	PT	32775.7	89216.8	4562.30
PK5	PC	32774.7	89148.2	4562.30
PK6	PT	32837.7	89157.6	4562.30
PK7	PC	32845.8	89166.7	4562.30
PK8	PT	MATCH	MATCH	4562.30 (MATCH)

ABBREVIATION LEGEND

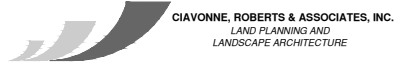
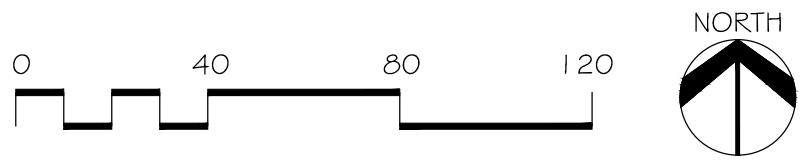
BK	BIKE RACK
BR	BOTTOM OF RAMP
BW	BOTTOM OF WALL (GRADE)
CP	CENTER OF POST (SHELTER)
FG	FINISH GRADE
HP	HIGH POINT
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
RP	RADIUS POINT
TW	TOP OF WALL

LAYOUT & GRADING NOTES:

1. SEE DETAILS ON THESE PLANS AND CITY OF GRAND JUNCTION SPECIFICATIONS AS THEY APPLY TO THIS AND RELATED WORK.
2. ALL WORK SHALL BE PER EXISTING CITY AND STATE CODES, IS SUBJECT TO INSPECTION AND APPROVAL BY APPROPRIATE INSPECTORS, AND IS RESPONSIBLE FOR SECURING PERMITS FROM THE CITY OF GRAND JUNCTION AND PROVIDING FOR ANY TRAFFIC CONTROL.
3. THE CONTRACTOR OR HIS SURVEYOR SHALL VERIFY ALL FURNISHED SURVEY AND TOPOGRAPHIC DATA AND ALL POINTS, LINES, AND ELEVATIONS. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER OF ANY DISCREPANCIES BETWEEN INFORMATION GIVEN ON DRAWINGS AND ACTUAL SITE OR FIELD CONDITIONS AND SHALL NOT PRECEED WITH ANY AFFECTED WORK UNTIL THE OWNER'S REPRESENTATIVE ISSUES INSTRUCTIONS. ADDITIONAL BURIED UTILITIES NOT SHOWN ON THESE DRAWINGS MAY BE PRESENT IN THE PROJECT AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR SPECIFIC LOCATIONS PRIOR TO COMMENCING ANY EXCAVATION.
4. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL BENCHMARKS, CORNER MONUMENTS AND OTHER POINTS; IF DISTURBED OR DESTROYED, CONTRACTOR SHALL REPLACE AS DIRECTED, AT NO COST TO THE OWNER.
5. ALL PROPOSED LAYOUT & GRADING IS BASED ON EXISTING SURVEY AND PROPOSED GRADES FROM THE CITY OF GRAND JUNCTION.
6. SEE CIVIL DRAWINGS FOR DRAINAGE STRUCTURES IN PARK.
6. CONCRETE PAVEMENT PLACEMENT TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
7. CONTRACTOR TO COORDINATE SITE FURNITURE LOCATION AND INSTALLATION WITH SUPPLIER TO INSURE COLORS AND INSTALLATION METHODS.
8. CONCRETE COLOR BANDING TO BE TOOLED JOINTS AND ACID-STAINED. STAIN TO BE SURESTAIN BY SURECRETE, COLOR = "SPICENUT". www.surecretedesign.com, OR EQUAL. CONTRACTOR TO PROVIDE (2) 2 FT X 2 FT. TEST PANELS WITH COLOR TO PROJECT MANAGER FOR APPROVAL PRIOR TO STAINING PLAZA CONCRETE. FINISH CONCRETE WITH SPARTAN CONCRETE SEAL.
9. PROPOSED GRADES DEPICT FINISH SURFACE OF MATERIAL. CONTRACTOR IS RESPONSIBLE FOR DETERMINING SUBGRADE ELEVATIONS.

SITE FURNISHINGS SCHEDULE

ITEM	QTY	MANUFACTURER	DESCRIPTION
①	4	WABASH VALLEY	'CONTEMPORARY' 6 FT BENCH WITH RIB PATTERN, IN-GROUND-MOUNT, COLOR=BLUE
②	5	PATTERSON-WILLIAMS	RAINBOW "INVERTED U" BIKE RACK, MODEL # 1608-01P, M1 IN-GROUND-MOUNT, POWDER COAT COLOR = "REGAL BLUE"
③	2	ICON SHELTER SYSTEMS	DS1 6X1 6M-PG4, FRAME COLOR = SURREY BEIGE, 24 GAUGE PRE-CUT MULTI RIB ROOF PANEL; COLOR = COLONIAL RED; (ENGINEERED DRAWINGS REQUIRED BY MANUFACTURER) ROOF PITCHES OF 4:12 AND 6:12. FRAME COLOR = "SURREY BEIGE". LOWER ROOF TO BE ON PLAYGROUND SIDE.



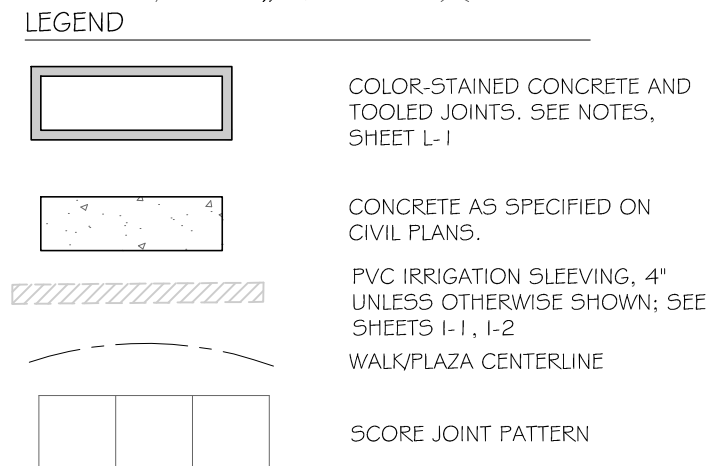
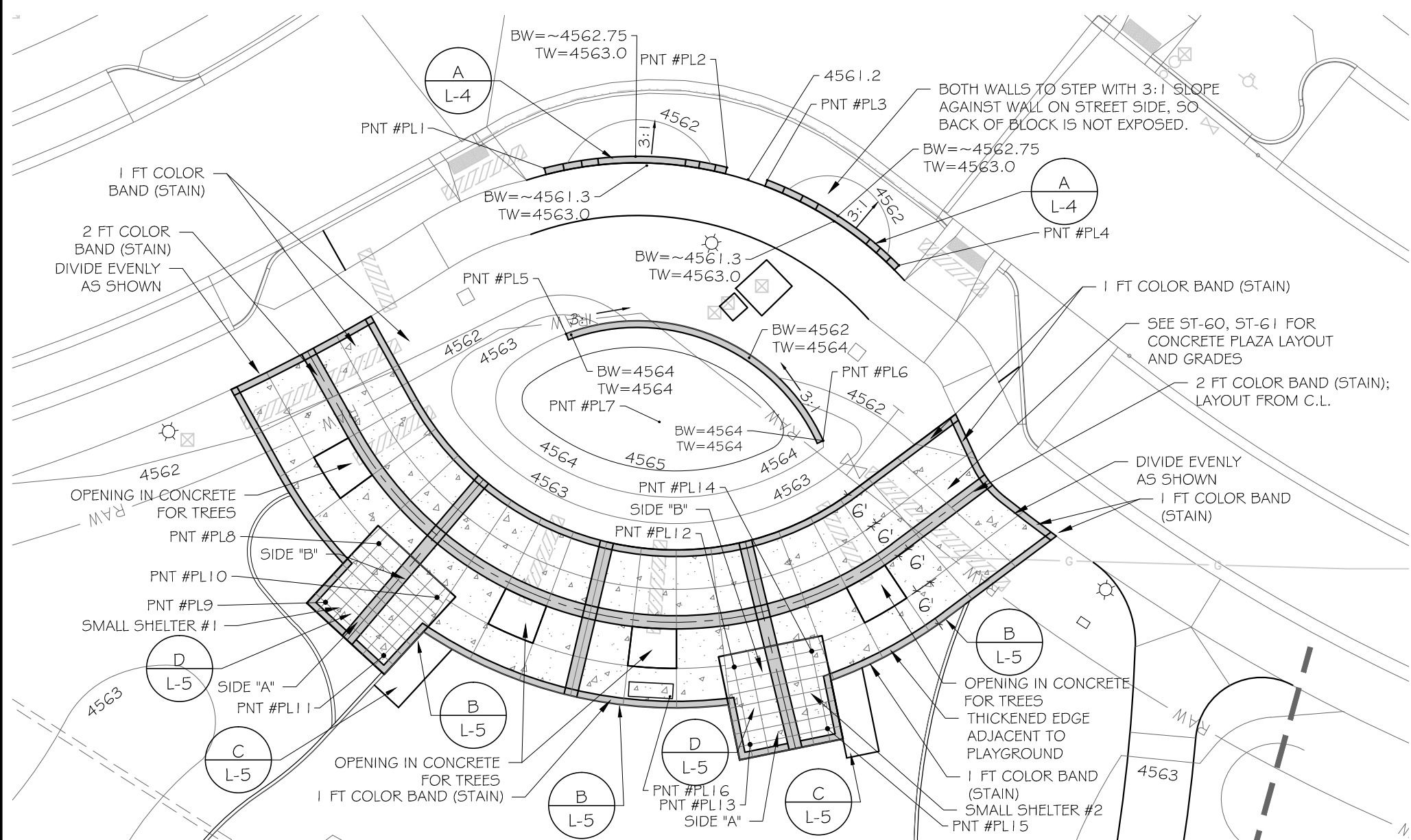
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALES
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REVISION			MH	5-15-2020	
REVISION			CR	5-15-2020	
REVISION			TCP		
REVISION					



PUBLIC WORKS
ENGINEERING DIVISION

THE RIVERFRONT AT DOS RIOS
DOS RIOS PARK LAYOUT & GRADING

S:\Projects\2019 job numbers\1944 Dos Rios Park Multiple Projects\CRA.dwg, 5/18/2020 10:37:20 AM



ABBREVIATION LEGEND

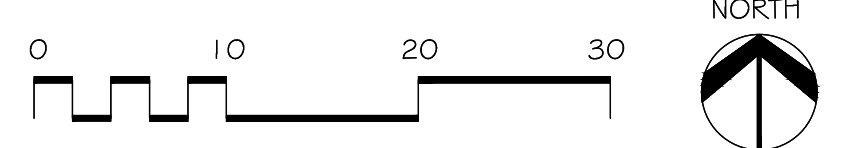
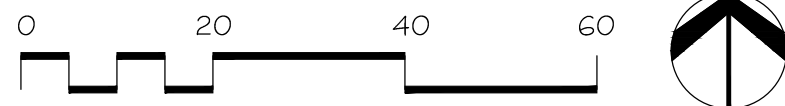
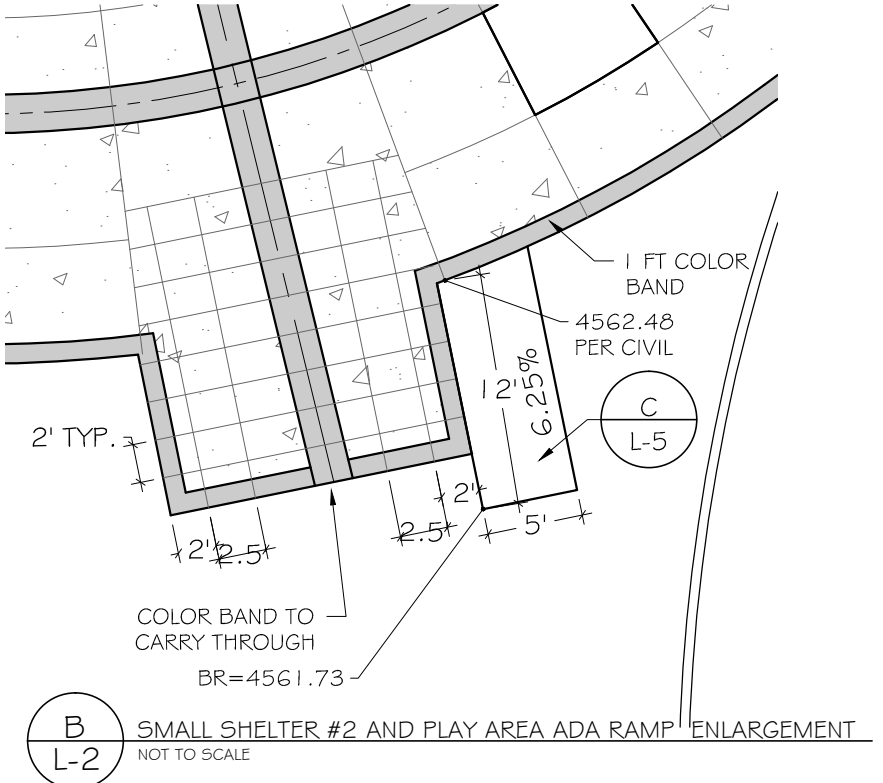
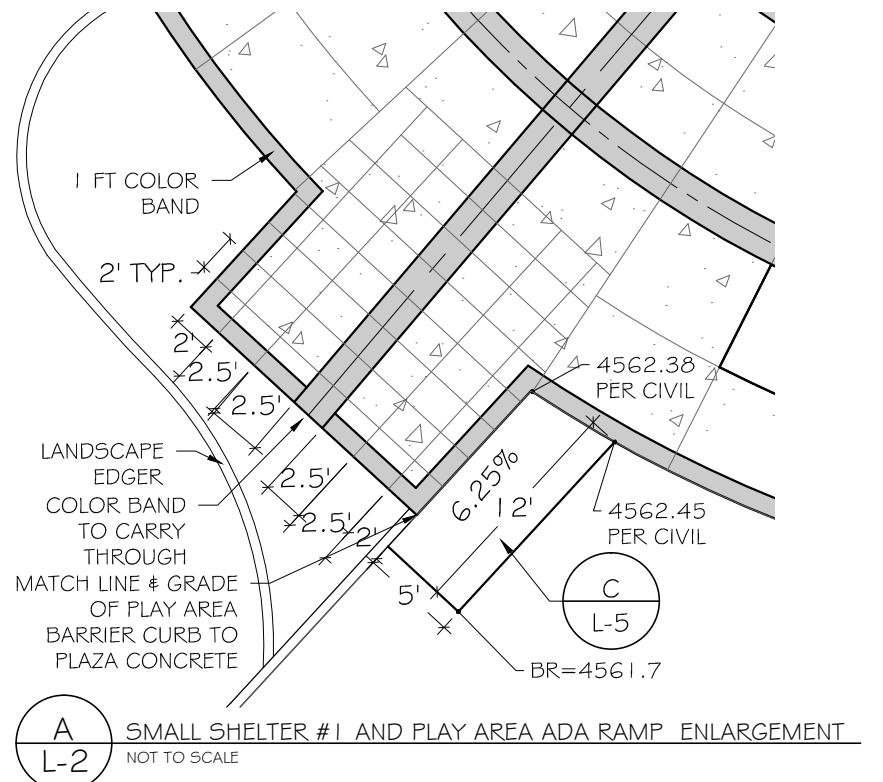
BK	BIKE RACK
BR	BOTTOM OF RAMP
BW	BOTTOM OF WALL (GRADE)
CP	CENTER OF POST (SHELTER)
FG	FINISH GRADE
HP	HIGH POINT
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
RP	RADIUS POINT
TW	TOP OF WALL

PLAZA AREA POINT TABLE

PNT#	DESC	N	E	ELEV.
PL1	TW	32932.5	89200.7	4561.30
PL2	TW	32932.6	89228.4	4561.30
PL3	TW	32930.7	89234.5	4561.30
PL4	TW	32917.7	89254.5	4560.00
PL5	TW	32907.3	89204.0	4564.00
PL6	TW	32891.1	89243.0	4564.00
PL7	HP	32893.9	89218.2	4565.15
PL8	CP	32875.4	89175.5	MATCH CIVIL GRADES FOR PAVEMENT
PL9	CP	32866.5	89167.4	
PL10	CP	32867.3	89184.4	
PL11	CP	32858.4	89176.3	
PL12	CP	32856.7	89229.5	
PL13	CP	32844.9	89231.9	
PL14	CP	32859.1	89241.3	
PL15	CP	32847.3	89243.7	
PL16	CP	32852.2	89219.7	

NOTE: WALLS N OF TRANSFORMER TO STEP UP FROM END TO 4563.0

NOTE: COORDINATES PROVIDED FOR TW OCCUR AT FACE OF WALL; USE MANUFACTURER -PROVIDED TEMPLATE FOR BENCH FOOTING LAYOUT



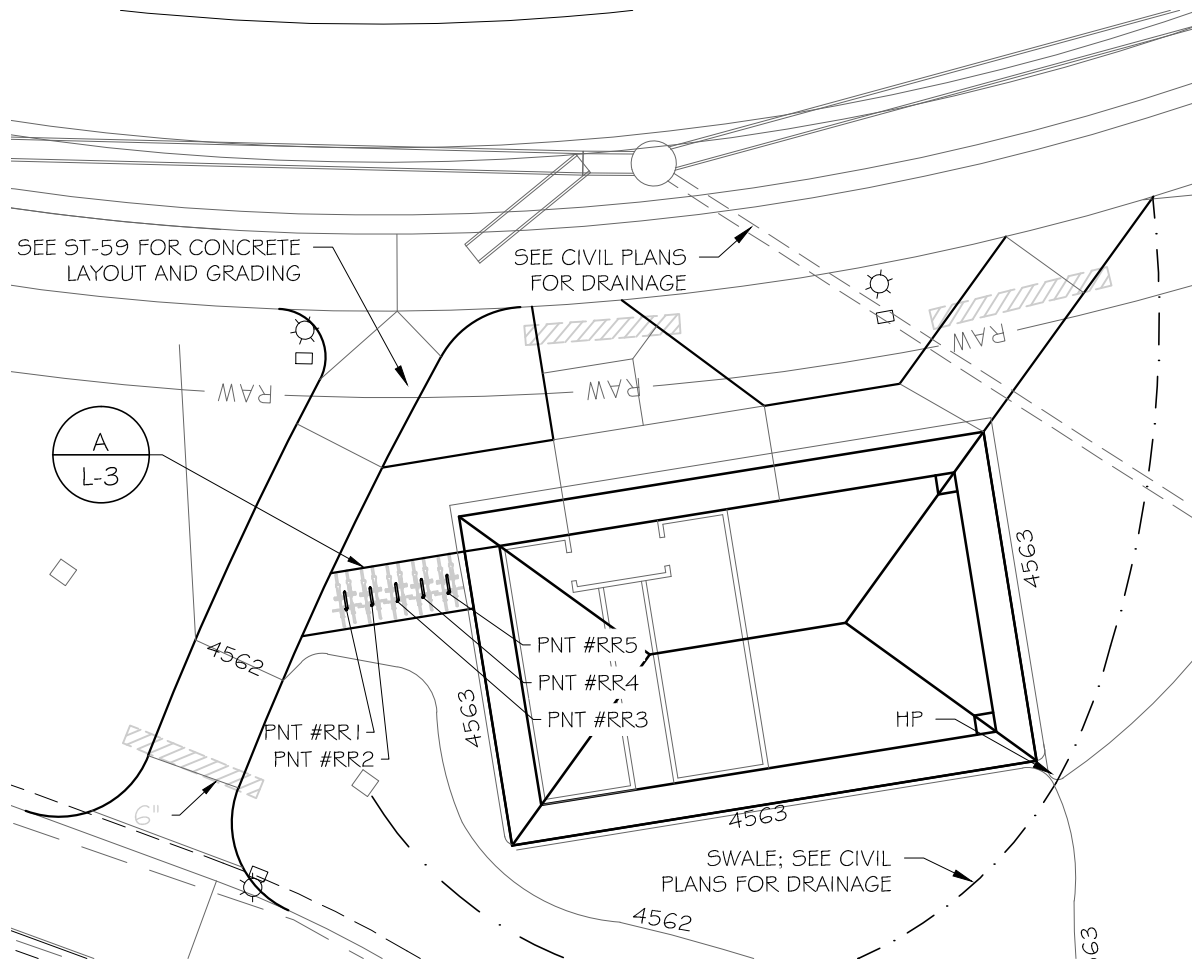
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REVISION			MH	5-15-2020	
REVISION			CR	5-15-2020	
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PUBLIC WORKS ENGINEERING DIVISION

THE RIVERFRONT AT DOS RIOS DOS RIOS PARK PLAZA ENLARGEMENTS

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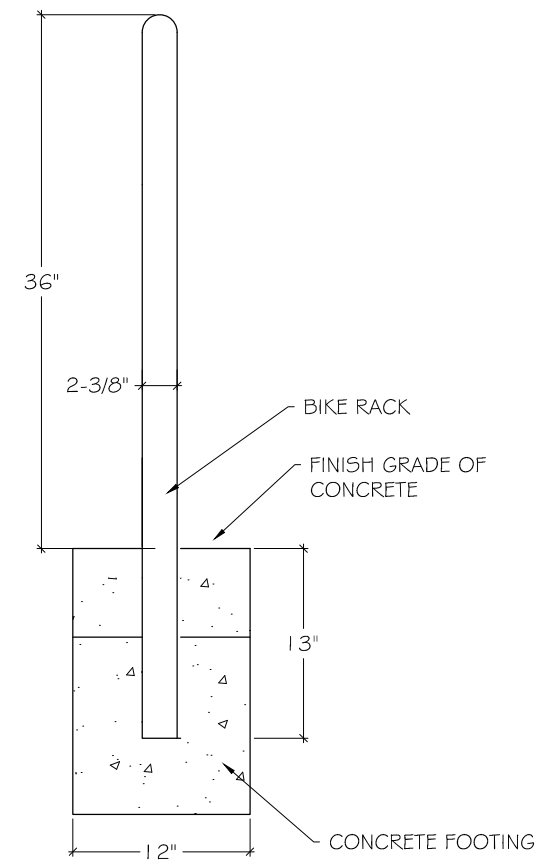
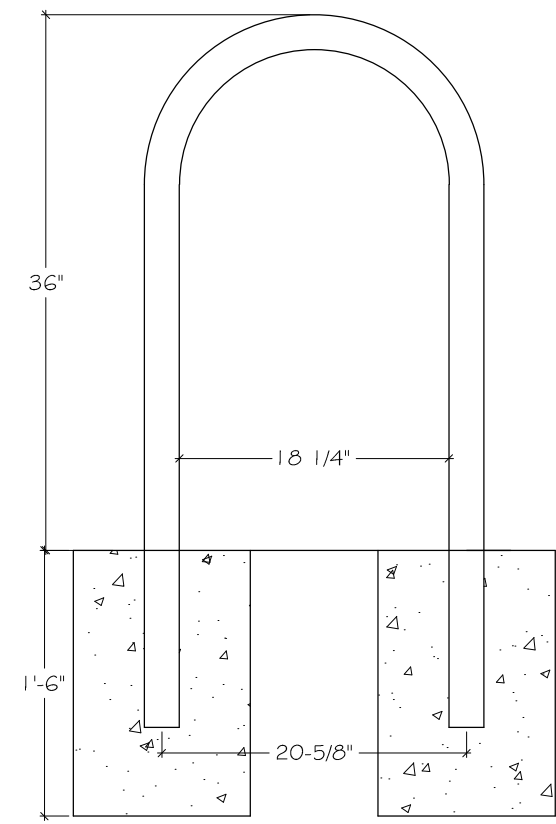


A
L-3 INVERTED U BIKE RACK
NOT TO SCALE

MODEL # 1608-01P DESCRIPTION: "RAINBOW" BIKE RACK, IN GROUND MOUNT, REGAL BLUE.

PATTERSON-WILLIAMS, INC.
P.O. BOX 1290
SALEM, IL 62881
(618) 548-2890
www.pattersonwilliams.com

- NOTES:
1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. OWNER TO SELECT COLOR (FINISH).
3. SEE MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION
4. SEE SITE PLAN FOR LOCATION.



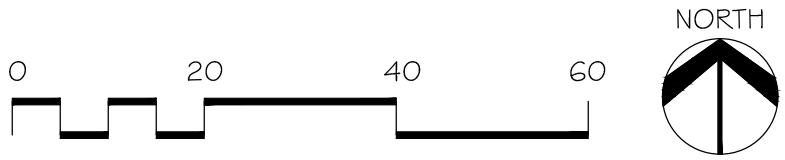
- ABBREVIATION LEGEND**
- BK BIKE RACK
 - BR BOTTOM OF RAMP
 - BW BOTTOM OF WALL (GRADE)
 - CP CENTER OF POST (SHELTER)
 - FG FINISH GRADE
 - HP HIGH POINT
 - PC POINT OF CURVATURE
 - PI POINT OF INTERSECTION
 - PT POINT OF TANGENCY
 - RP RADIUS POINT
 - TW TOP OF WALL

- LEGEND**
- BIKE RACK (SEE DETAIL, THIS SHEET; BIKE POSITION SHOWN)
 - PVC IRRIGATION SLEEVING, 4" UNLESS OTHERWISE SHOWN

SHELTER AREA POINT TABLE

PNT#	DESC	N	E	ELEV.
RR1	BK	32841.5	89031.4	MATCH CIVIL GRADES FOR PAVEMENT
RR2	BK	32841.9	89034.1	
RR3	BK	32842.3	89036.7	
RR4	BK	32842.8	89269.28	
RR5	BK	32843.2	89042.1	

NOTE: BIKE RACK POINTS ARE FOR CENTER OF SOUTH FOOTING



CLAVONNE, ROBERTS & ASSOCIATES, INC.
LAND PLANNING AND
LANDSCAPE ARCHITECTURE

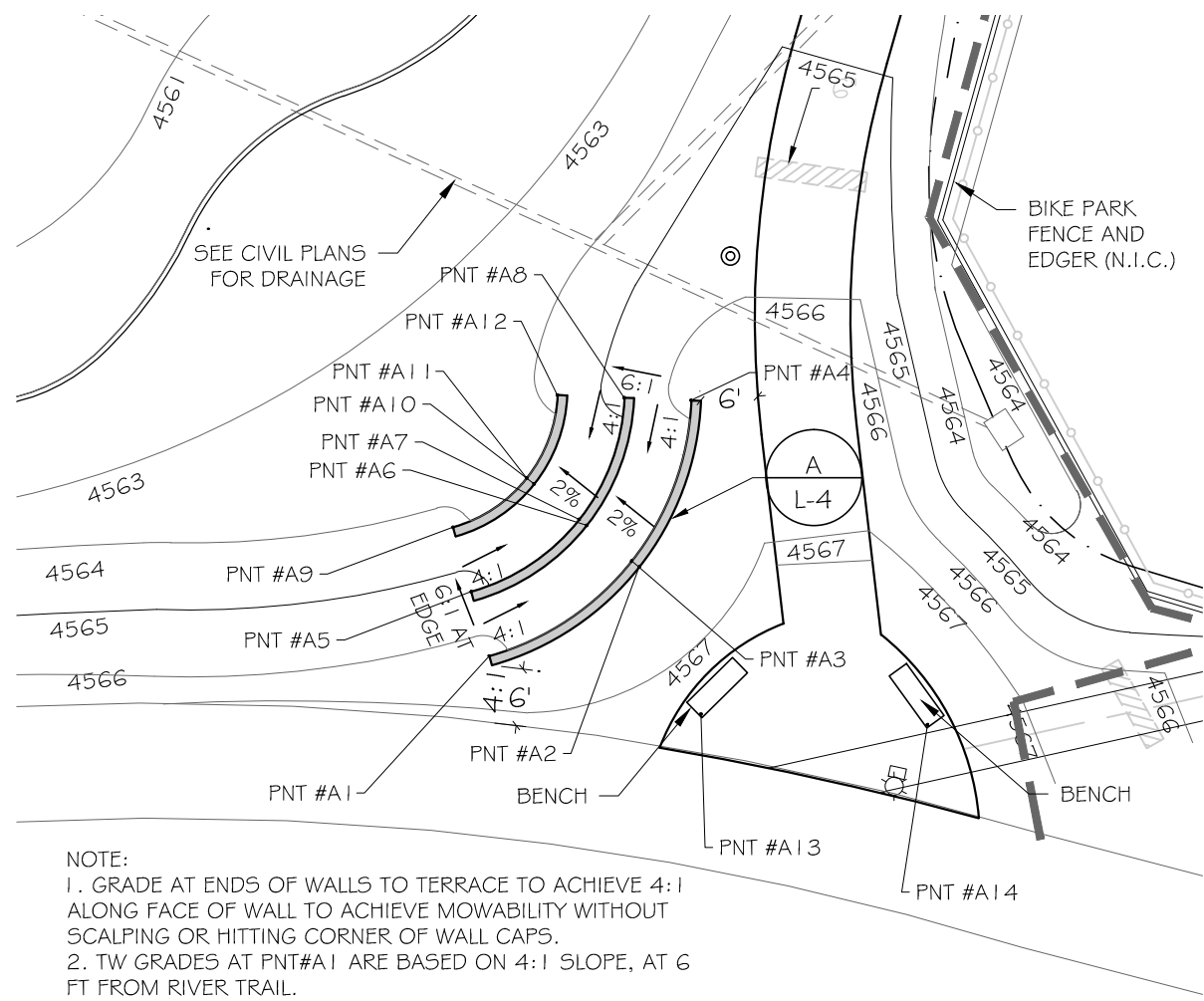
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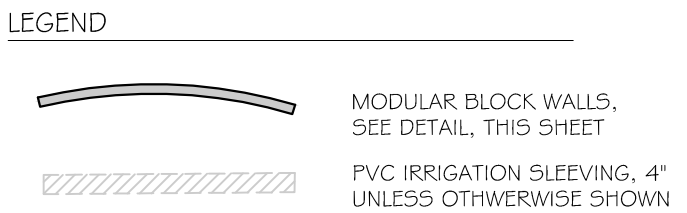
PUBLIC WORKS
ENGINEERING DIVISION

THE RIVERFRONT AT DOS RIOS
DOS RIOS PARK SHELTER BIKE
RACKS AND DETAIL

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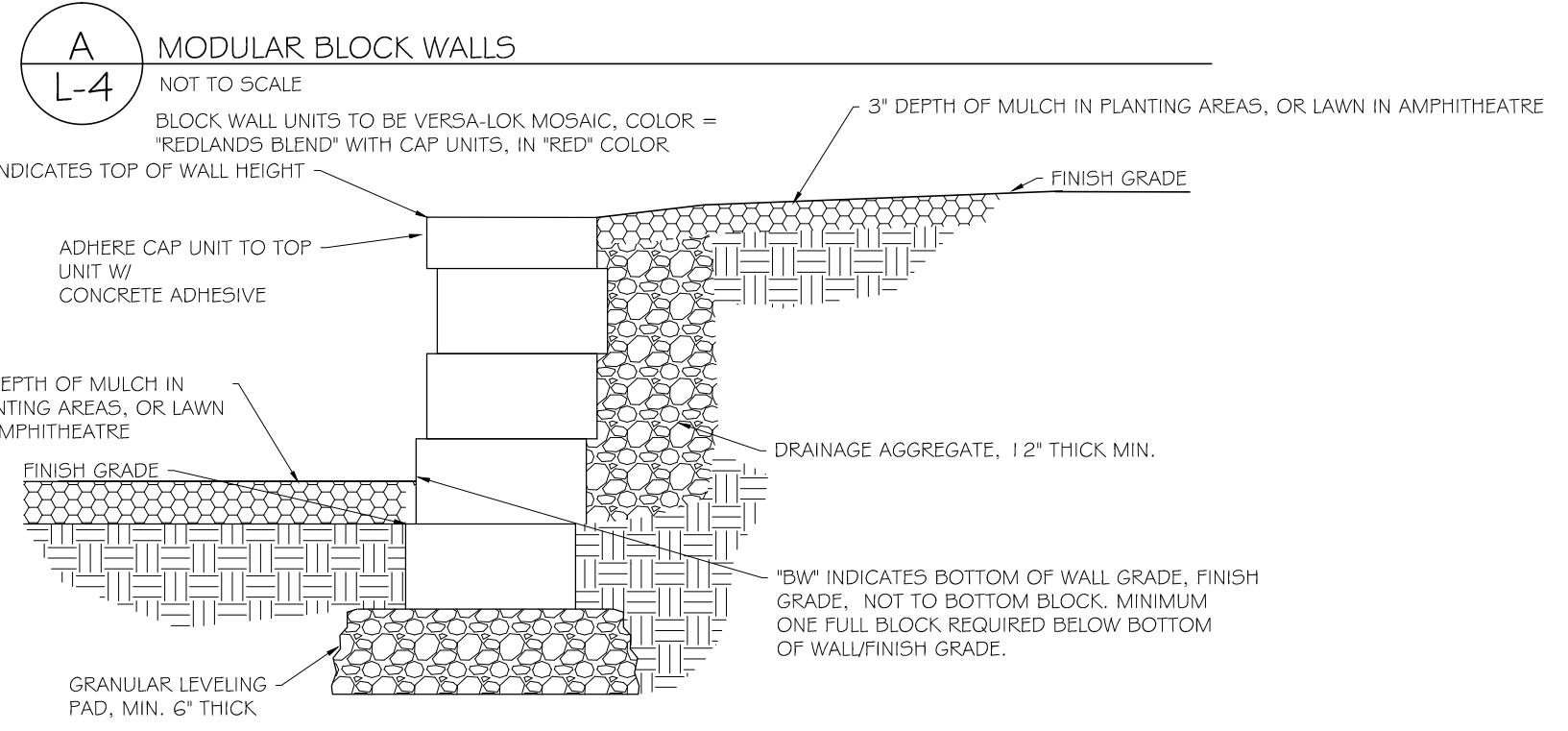


NOTE:
 1. GRADE AT ENDS OF WALLS TO TERRACE TO ACHIEVE 4:1 ALONG FACE OF WALL TO ACHIEVE MOWABILITY WITHOUT SCALPING OR HITTING CORNER OF WALL CAPS.
 2. TW GRADES AT PNT#A1 ARE BASED ON 4:1 SLOPE, AT 6 FT FROM RIVER TRAIL.



ABBREVIATION LEGEND

BK	BIKE RACK
BR	BOTTOM OF RAMP
BW	BOTTOM OF WALL (GRADE)
CP	CENTER OF POST (SHELTER)
FG	FINISH GRADE
HP	HIGH POINT
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
RP	RADIUS POINT
TW	TOP OF WALL

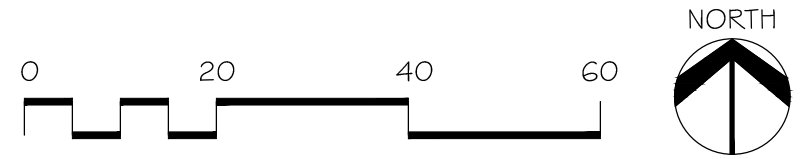


NOTE: THIS DETAIL APPLIES TO LANDSCAPE WALLS ON L-2 AND TO AMPHITHEATRE WALLS ON L-4

AMPHITHEATRE AREA POINT TABLE

PNT#	DESC	N	E	ELEV.
A1	TW	32731.6	89248.2	4565.84
A2	TW	32741.5	89263.1	4565.84
A3	BW	32741.5	89263.1	4564.84
A4	TW	32758.3	89269.28	4565.84
A5	TW	32738.3	89246.3	4565.72
A6	TW	32745.9	89257.6	4565.72
A7	BW	32745.9	89257.6	4564.72
A8	TW	32758.6	89262.3	4565.72
A9	TW	32745.1	89244.4	4564.60
A10	TW	32750.2	89252.1	4564.60
A11	BW	32750.2	89252.1	4563.60
A12	TW	32758.9	89255.3	4564.60
A13	CP	32725.5	89270.3	
A14	CP	32724.4	89294.0	

NOTE: COORDINATES PROVIDED FOR TW OCCUR AT FACE OF WALL; USE MANUFACTURER -PROVIDED TEMPLATE FOR BENCH FOOTING LAYOUT



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 LAND PLANNING AND
 LANDSCAPE ARCHITECTURE

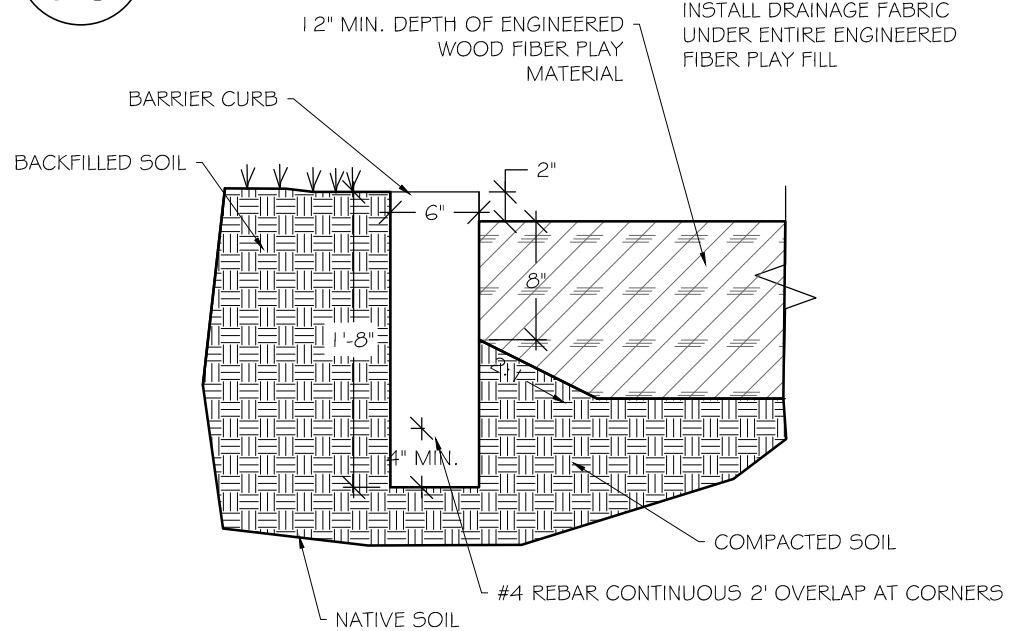
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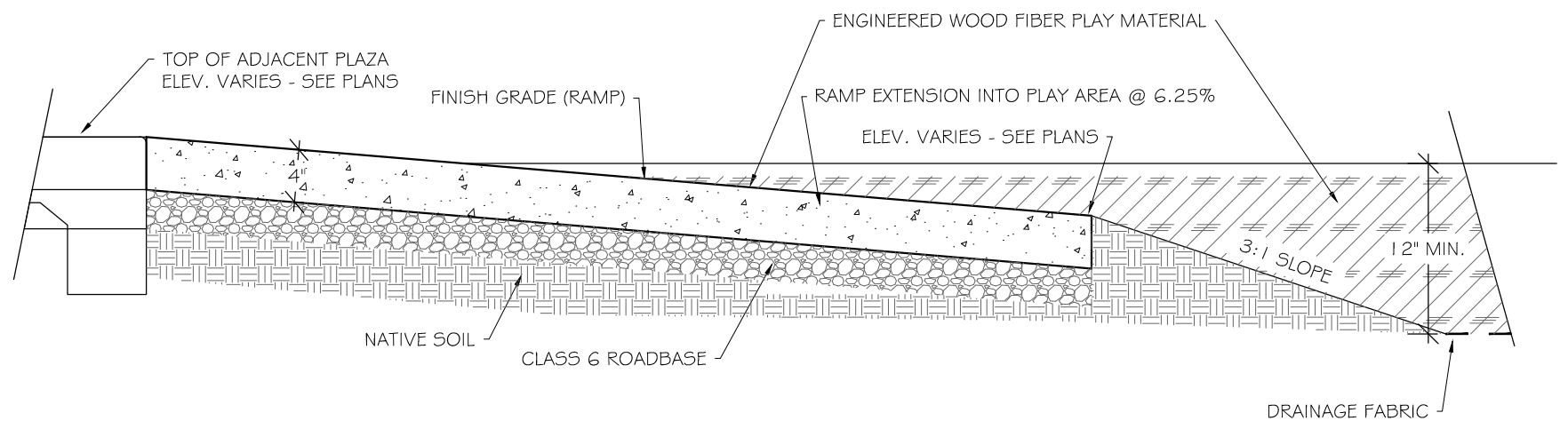
**PUBLIC WORKS
 ENGINEERING DIVISION**

**THE RIVERFRONT AT DOS RIOS
 DOS RIOS PARK AMPHITHEATRE**

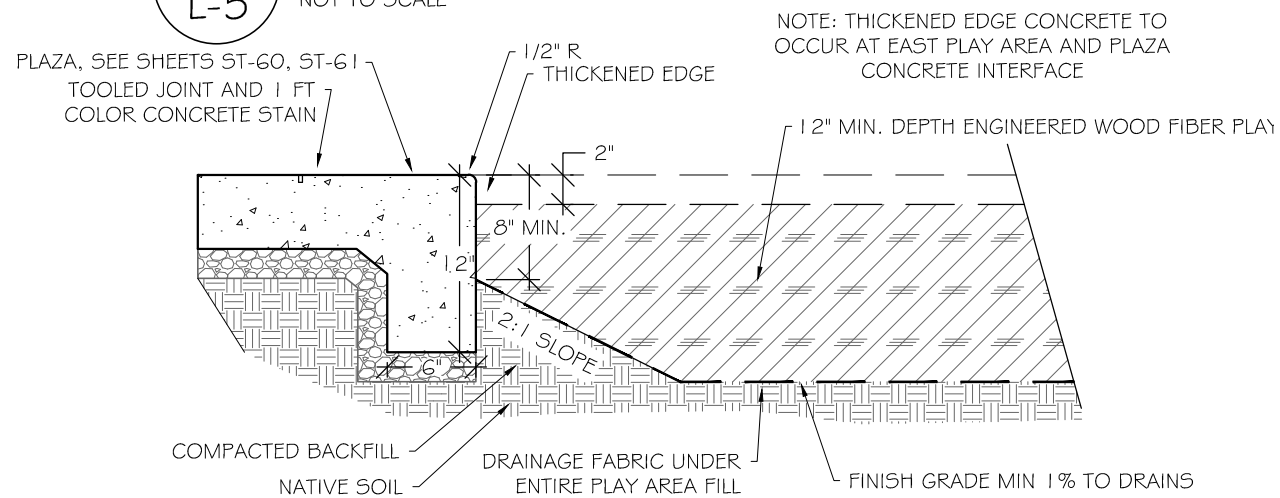
A
L-5
PLAY AREA BARRIER CURB
NOT TO SCALE



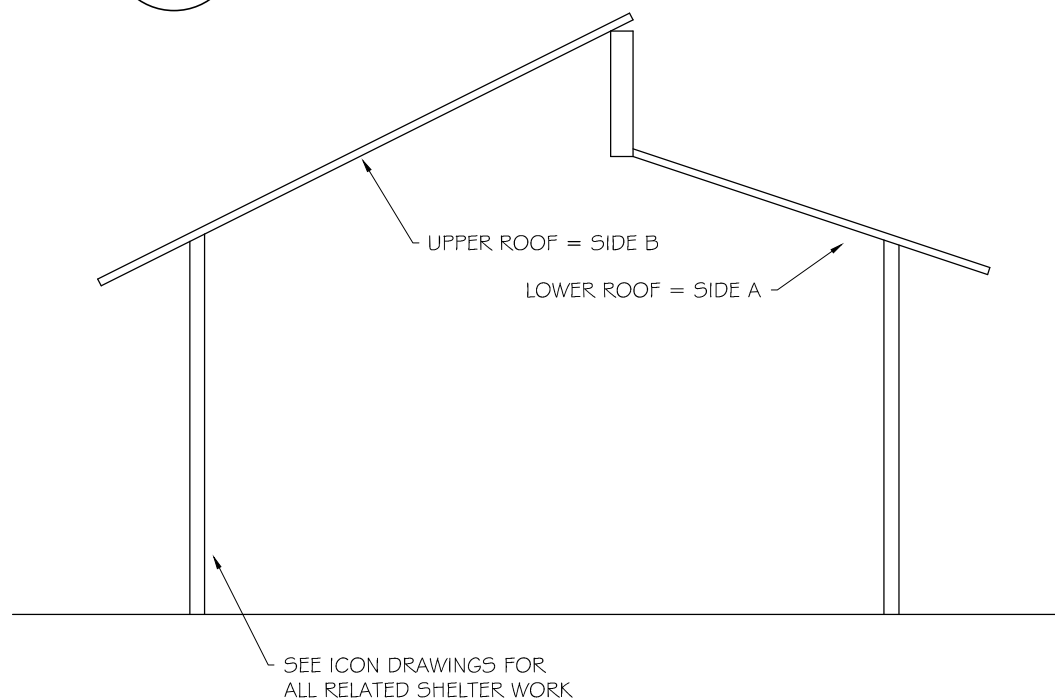
C
L-5
PLAY AREA ADA RAMP
NOT TO SCALE



B
L-5
THICKENED EDGE AT PLAYGROUND
NOT TO SCALE



D
L-5
SMALL SHELTER
NOT TO SCALE



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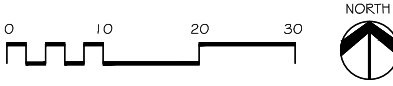
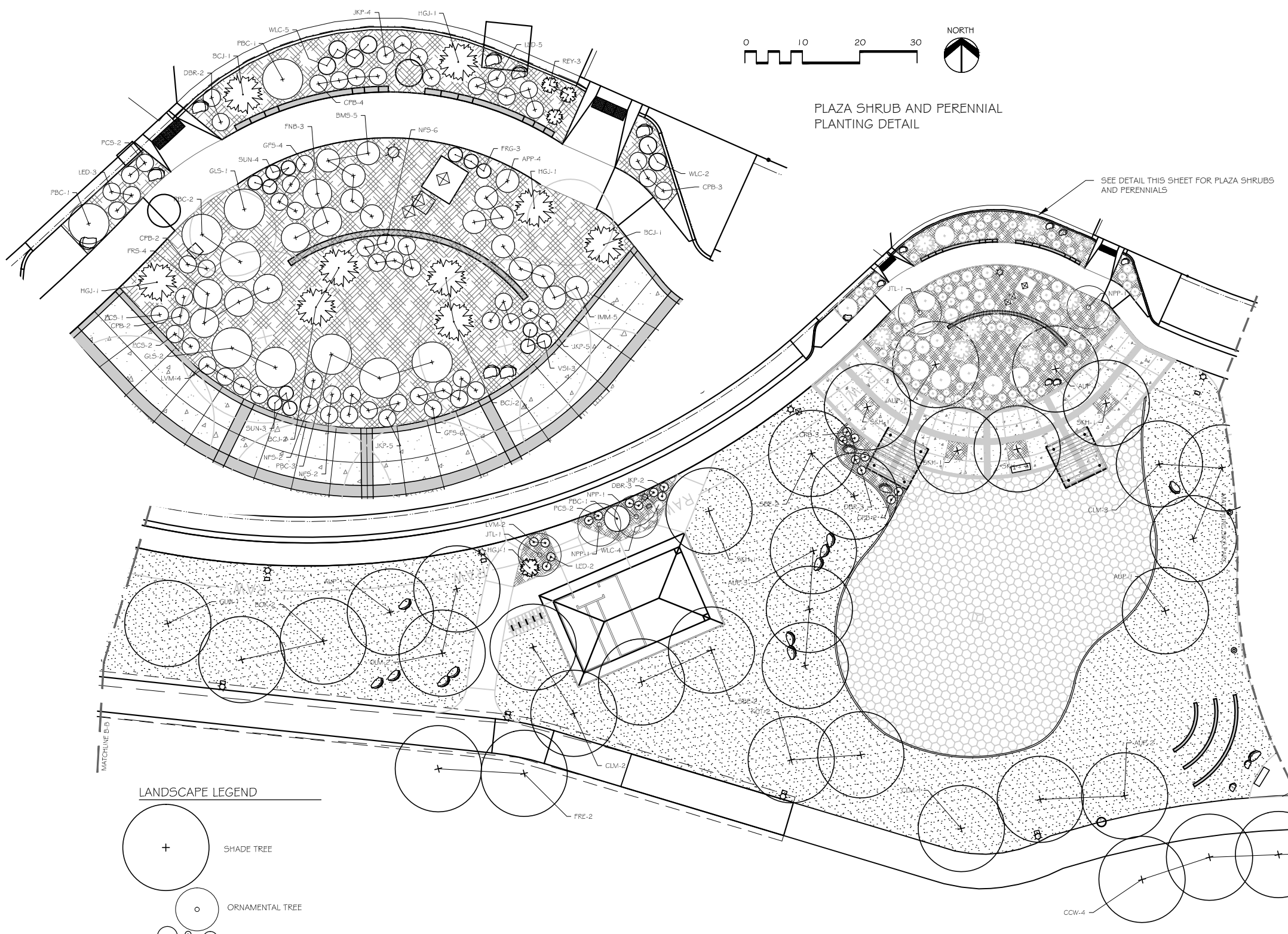
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THE RIVERFRONT AT DOS RIOS
DOS RIOS PARK LANDSCAPE DETAILS

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PLAZA SHRUB AND PERENNIAL PLANTING DETAIL

PLANT LIST

Qty	Key	Common Name	Scientific Name	Size
9	AUP	Autumn Blaze Pear	<i>Fyrus calleryana</i> 'Autumn Blaze'	2"
4	BOK	Burr Oak	<i>Quercus macrocarpa</i>	2"
7	CCW	Cottonwood -Noreaster	<i>Populus deltoides</i> 'Noreaster'	2"
12	CLM	Celebration Maple	<i>Acer freemanii</i> 'Celebration'	2"
4	FRE	Frontier Elm	<i>Ulmus x Frontier</i>	2"
2	JTL	Japanese Tree Lilac	<i>Syringa reburata</i> 'Ivory Silk'	1-1/2'
4	KCT	Kentucky Coffeetree	<i>Gymnocladus dioica</i>	2"
3	NPP	Newport Plum	<i>Prunus cerasifera</i> 'Newport'	1-1/2'
10	SBF	Sensation Box Elder	<i>Acer negundo</i> 'Sensation'	2"
9	SKH	Skyline Honeylocust	<i>Gleditsia trachanthos</i> var. <i>inermis</i> 'Skyline'	2"

Deciduous Shrubs

4	APP	Apache Plume	<i>Fallugia paradoxa</i>	5 gal
5	BMS	Blue Mist Spirea	<i>Caryopterus incana</i>	5 gal
16	CPB	Crimson Pyramy Barberry	<i>Berberis thunbergii</i> 'Atropurpurea Nana'	5 gal
8	DBR	Dwarf Blue Rabbitbrush	<i>Chrysothamnus nauseosus</i> nana	5 gal
3	FNB	Fern Bush	<i>Chamaebatia millefolium</i>	5 gal
4	FRS	Froebel's Spirea	<i>Spiraea bumalda</i> 'Froebeli'	5 gal
10	GFS	Gold Flame Spirea	<i>Spiraea bumalda</i> 'Gold Flame'	5 gal
3	GLS	Gro Low Sumac	<i>Rhus aromatica</i> 'Gro-Low'	5 gal
5	IMM	Intricate Mtn. Mahogany	<i>Cercocarpus intricatus</i>	5 gal
16	JKP	Jackmanni Potentilla	<i>Potentilla fruticosa</i> 'Jackmanni'	5 gal
10	LED	Leadplant	<i>Amorpha canescens</i>	5 gal
6	LVM	Lavender-Munstead	<i>Lavandula angustifolia</i> 'Munstead'	5 gal
10	NFS	Neon Flash Spirea	<i>Spiraea japonica</i> 'Neon Flash'	5 gal
8	PBC	Pawnee Buttes Sand Cherry	<i>Prunus besseyi</i> 'Pawnee Buttes'	5 gal
7	PCS	Powis Castle Sage	<i>Artemisia</i> 'Powis Castle'	5 gal

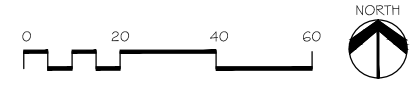
Evergreen Shrubs

6	BCJ	Blue Chip Juniper	<i>Juniperus horizontalis</i> 'Blue Chip'	5 gal
4	HGJ	Hughes Juniper	<i>Juniperus horizontalis</i> 'Hughes'	5 gal
3	REY	Red Yucca	<i>Hesperaloe parviflora</i>	5 gal

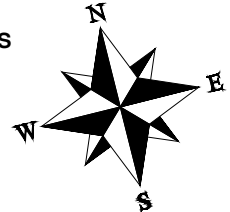
Perennials/Ground Covers

3	FRG	Feather Reed Grass	<i>Calamagrostis x acutiflora</i> 'Karl Foerster'	1 gal
7	SUN	Sunset Hyssop	<i>Agastache rupestris</i>	1 gal
3	VSI	Vanegated Sweet Ins	<i>Ins pallida</i> 'Vanegata'	1 gal
1	WLC	Walker's Low Catmint	<i>Nepeta x Walker's Low</i>	1 gal

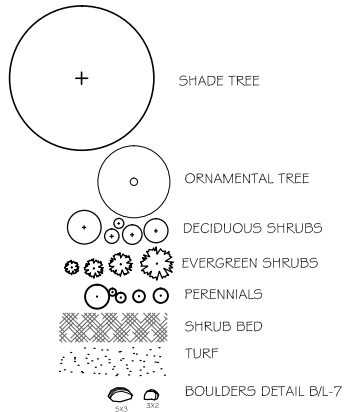
NOTES:
 1. PLANT GROWTH CHARACTERISTICS VARY DUE TO ENVIRONMENTAL CONDITIONS, THEREFORE A RANGE OF AVERAGE MATURE HEIGHTS ARE INDICATED.
 2. PLANT QUANTITIES SHOWN ARE FOR PHASE 2 IN ITS ENTIRETY.



NOTES
 SEE SHEET L-7 FOR PLANTING NOTES AND PLANTING DETAILS.



LANDSCAPE LEGEND



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION Δ			CR	5-15-2020
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REVISION Δ			TCP	2020



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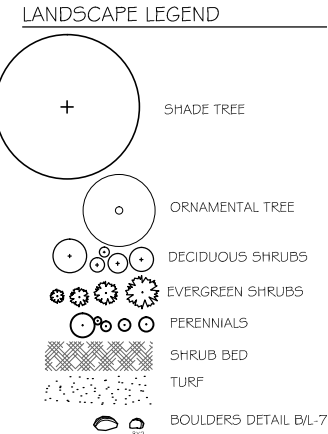
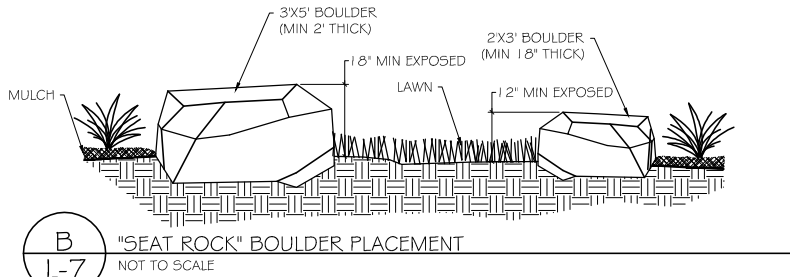
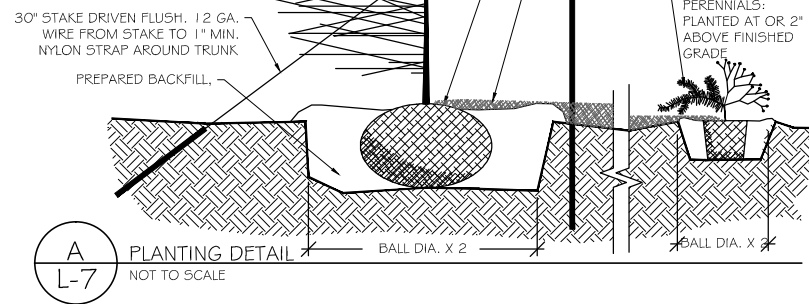
The Riverfront at Dos Rios DOS RIOS PARK PLANTING

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EVERGREEN (OPPOSITE SIDE SAME) DECIDUOUS (OPPOSITE SIDE SAME)

NOTES:

1. ALL BEDS SHALL BE PITCHED TO DRAIN AT 3% MIN.
2. ALL BEDS TO RECEIVE WEED CONTROL FABRIC ON FINISHED GRADE UNDER MULCH UNLESS OTHERWISE NOTED.
3. SPRAY DECIDUOUS TREE TRUNK WITH INSECTICIDAL WRAP WITH 4" TREE WRAP FROM BOTTOM UP TO SECOND BRANCH. TAPE IN MIN. 3 PLACES.
4. BACKFILL MIX:
 1/3 SOIL AMENDMENT
 2/3 SOIL FROM PIT
 INCORPORATE BIOSOL PLANTERS MIX, OR A MIX OF 50 LBS BIOSOL, 10 LBS HUMATE, 1 LB ALL PURPOSE MYCORRHIZAE AT THE FOLLOWING RATES:
 1/2 CUP PER 1 GAL PERENNIAL
 1 CUP PER 5 GAL SHRUB
 2 CUPS PER 2" CALIPER TREE
 MIX THOROUGHLY PRIOR TO BACKFILLING. CONTRACTOR TO PROVIDE AND INSTALL PLANT FERTILIZER TABLETS HAVING AN ANALYSIS OF 20-10-5. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.



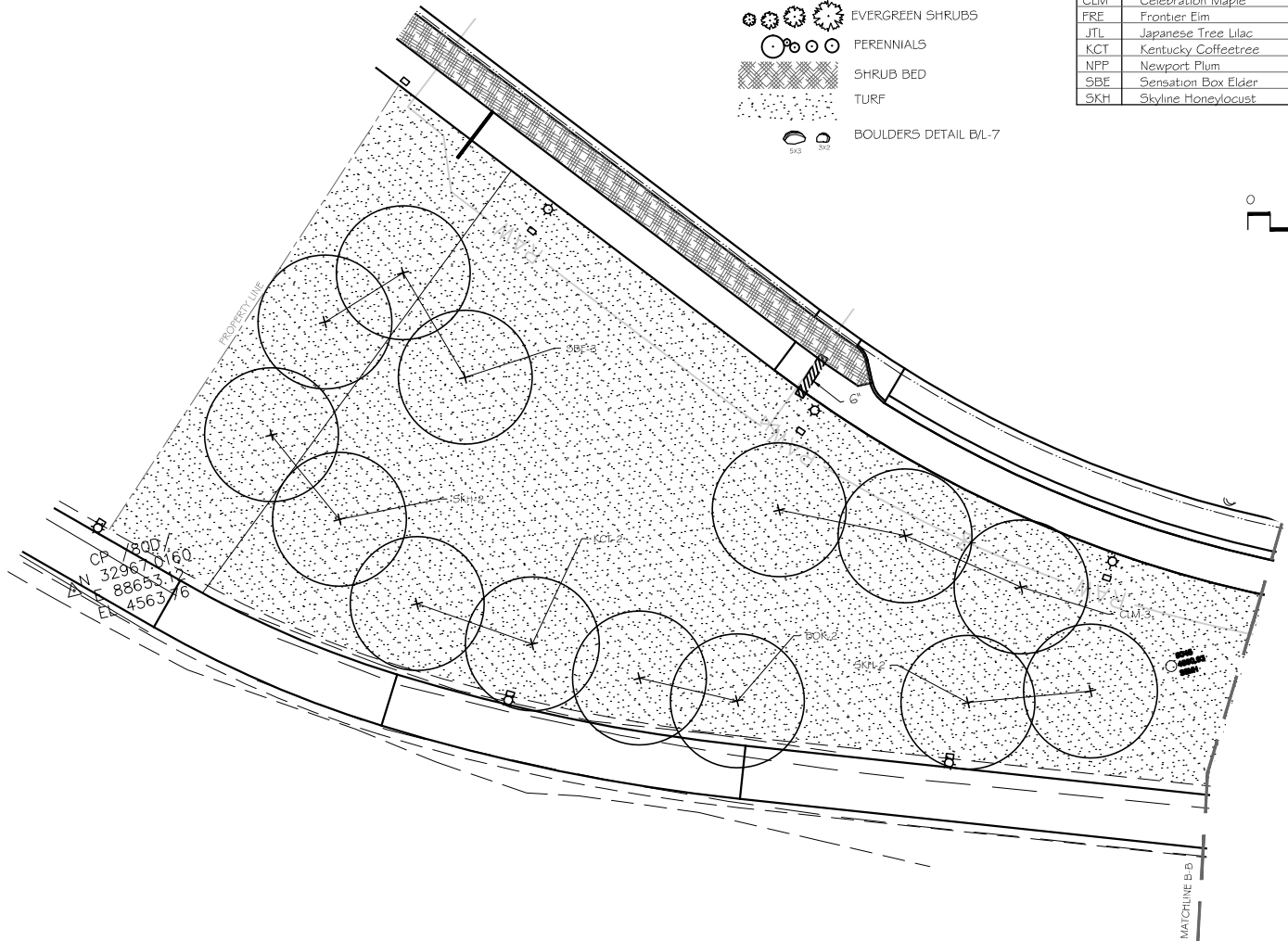
PLANT LIST

Key	Common Name	Scientific Name	Size
Deciduous Trees			
AUP	Autumn Blaze Pear	<i>Pyrus calleryana</i> 'Autumn Blaze'	2"
BOK	Burr Oak	<i>Quercus macrocarpa</i>	2"
CCW	Cottonwood -Noreaster	<i>Populus deltoides</i> 'Noreaster'	2"
CLM	Celebration Maple	<i>Acer freemanii</i> 'Celebration'	2"
FRE	Frontier Elm	<i>Ulmus x Frontier</i>	2"
JTL	Japanese Tree Lilac	<i>Syringa reticulata</i> 'Ivory Silk'	1-1/2"
KCT	Kentucky Coffeetree	<i>Gymnocladus dioica</i>	2"
NPP	Newport Plum	<i>Prunus cerasifera</i> 'Newport'	1-1/2"
SBE	Sensation Box Elder	<i>Acer negundo</i> 'Sensation'	2"
SKH	Skyline Honeylocust	<i>Gleditsia tracanthos</i> var. <i>inermis</i> 'Skyline'	2"

PLANTING NOTES

1. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. ALL LANDSCAPING AND IRRIGATION TO CONFORM TO CURRENT ASSOCIATED LANDSCAPE CONTRACTORS OF COLORADO STANDARDS AND SPECIFICATIONS.
3. EQUAL PART MIXTURE OF ROUND-UP AND 2-4-D DILUTED AS PER MANUFACTURER'S RECOMMENDATIONS SHALL BE APPLIED TO ALL ACTIVELY GROWING WEEDS TWO WEEKS PRIOR TO ANY OPERATIONS.
4. ALL LAWN AREAS TO RECEIVE SOIL AMENDMENT. SHRUB BEDS TO RECEIVE 3 INCH DEPTH OF ROCK MULCH.
5. AREAS TO BE PLANTED (AS PER DRAWINGS) TO RECEIVE SOIL AMENDMENT. REMOVE UNSATISFACTORY MATERIAL (INCLUDING ROAD BASE, ASPHALT, CONCRETE AND TRASH) AND REMOVE FROM SITE. ALL LAWN AREAS AND SHRUB BEDS TO RECEIVE 6 YDS/1 000 S.F. SOIL AMENDMENT. SCARIFY ALL AREAS TO RECEIVE SOIL AMENDMENT TO A DEPTH OF 6".
6. SOIL AMENDMENT IS TO CONSIST OF 50% GROUND WELL-AGED MANURE, 50% FINELY GROUND AND AGED WOOD CHIPS. AMENDMENT IS TO BE INCORPORATED WITH FERTILIZER BY TILLING AT THE RATE OF 6 CUBIC YARDS/1 000 SF INTO ALL LAWN AREAS.
7. SOIL IS TO BE COMPACTED TO 85% MODIFIED PROCTOR (WHEEL ROLL) TO MINIMIZE SETTLING. BEDS ARE TO BE FILLED TO A DEPTH OF 6" ABOVE ADJACENT EDGE OF CURB, SHAPED TO FORM MOUNDED PLANTING AREA. SHRUB BED TO BE FINISHED WITH A 4:1 SLOPE FROM 2" BELOW ADJACENT CONCRETE TO FINISH GRADE. SHRUB BEDS ADJACENT TO BUILDINGS ARE TO DRAIN AWAY FROM BUILDING.
8. NO WEED FABRIC TO BE USED IN THIS PROJECT
9. TREES ARE TO SPACED AS SCALED FROM THE PLANTING PLAN.
10. ROCK MULCH SHALL BE 1/2" CRUSHED GRANITE. ROCK SHALL BE FREE OF TRASH, STICKS, ROOTS OR OTHER DEBRIS.
11. DI-AMMONIUM PHOSPHATE (18-46-0) SHALL BE SUPPLIED IN QUANTITY NECESSARY TO APPLY 1 LB/1 000 SF TO ALL LAWN SEED AREAS.
12. LAWN AREAS ARE TO BE HYDROSEEDED WITH SPECIES AND RATES SHOWN ON THIS SHEET AND HYDROMULCHED WITH DYE TO ALLOW INSPECTION FOR COVERAGE. CONTRACTOR IS RESPONSIBLE FOR CLEANING ANY NON-LAWN SURFACES.
13. CONTRACTOR IS TO GUARANTEE ALL PLANT MATERIALS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF WORK. CONTRACTOR IS TO MAINTAIN LAWN AREAS AFTER EACH AREA IS SEEDDED AND CONTINUE FOR 30 DAYS OR UNTIL FINAL ACCEPTANCE, WHICHEVER IS LONGER.

"LO-MOW" FESCUE LAWN SEED MIX:
 *AVAILABLE FROM PRAIRIE NURSERY.COM
<https://www.prairienursery.com/resources-and-guides/lo-mow-resources/>
 HYDROSEED 5 lbs/1 000 sf
 HYDROMULCH:
 FOLLOWING SEED APPLICATION, HYDROMULCH 50 lbs/1 000 sf.



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALES
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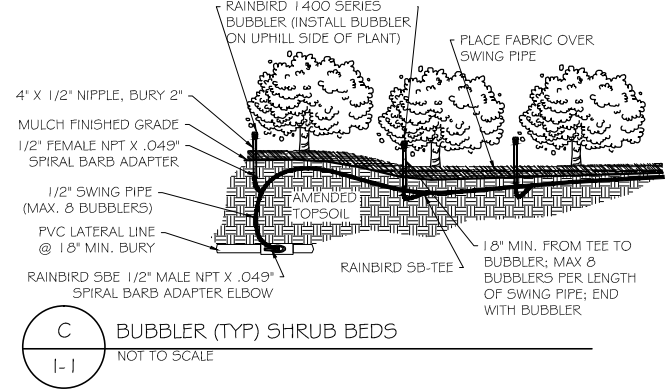
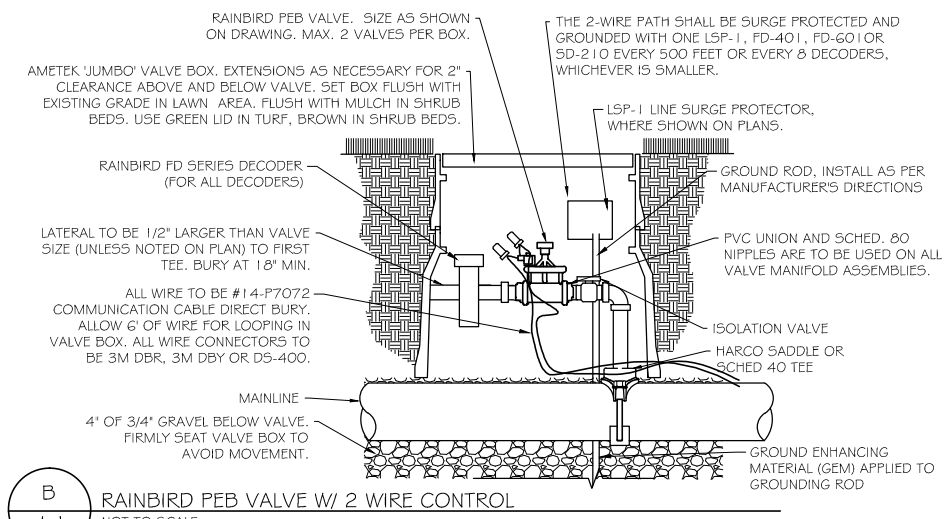


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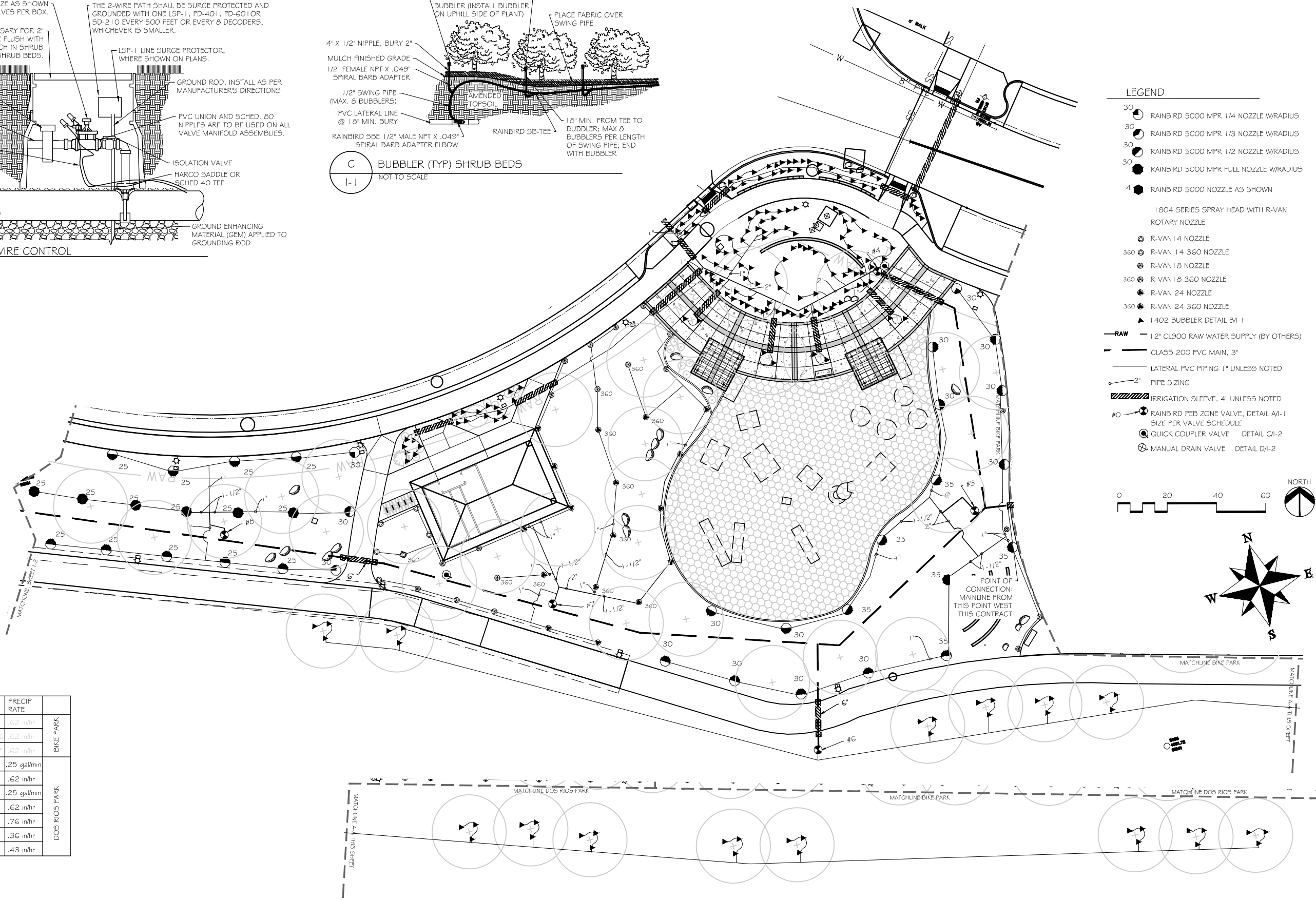
The Riverfront at Dos Rios
DOS RIOS PARK PLANTING

L-7

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- LEGEND**
- 30 RAINBIRD 5000 MPR 1/4 NOZZLE W/RADIUS
 - 30 RAINBIRD 5000 MPR 1/3 NOZZLE W/RADIUS
 - 30 RAINBIRD 5000 MPR 1/2 NOZZLE W/RADIUS
 - 30 RAINBIRD 5000 MPR FULL NOZZLE W/RADIUS
 - 4 RAINBIRD 5000 NOZZLE AS SHOWN
 - 1804 SERIES SPRAY HEAD WITH R-VAN ROTARY NOZZLE
 - R-VAN 14 NOZZLE
 - 360 R-VAN 14 360 NOZZLE
 - R-VAN 18 NOZZLE
 - 360 R-VAN 18 360 NOZZLE
 - R-VAN 24 NOZZLE
 - 360 R-VAN 24 360 NOZZLE
 - 1402 BUBBLER DETAIL B1-1
 - RAW 12" CL900 RAW WATER SUPPLY (BY OTHERS)
 - CLASS 200 PVC MAIN, 3"
 - LATERAL PVC PIPING 1" UNLESS NOTED
 - 2" PIPE SIZING
 - IRRIGATION SLEEVE, 4" UNLESS NOTED
 - #0 RAINBIRD PEB ZONE VALVE, DETAIL A1-1 SIZE PER VALVE SCHEDULE
 - QUICK COUPLER VALVE DETAIL C1-2
 - MANUAL DRAIN VALVE DETAIL D1-2



IRRIGATION VALVE SCHEDULE

VALVE #	SIZE	TYPE	GPM	PRECIP RATE	
#1	1-1/2"	TURF STREAM ROTOR	51	.62 in/hr	BIKE PARK
#2	1-1/2"	TURF STREAM ROTOR	79/56	.62 in/hr	
#3	1-1/2"	TURF STREAM ROTOR	67/57	.62 in/hr	
#4	1-1/2"	PLAZA BUBBLERS	40	.25 gal/min	DOS RIOS PARK
#5	1-1/2"	5000 MPR ROTOR	62.9	.62 in/hr	
#6	1-1/2"	SOUTH TREE BUBBLERS	10.5	.25 gal/min	
#7	1-1/2"	TURF STREAM ROTOR	58.0	.62 in/hr	
#8	1-1/2"	5000 ROTOR	46.5	.76 in/hr	
#9	1-1/2"	5000 ROTOR	40.0	.36 in/hr	
#10	1-1/2"	5000 ROTOR	47.0	.43 in/hr	

CIAVONNE, ROBERTS & ASSOCIATES, INC.
LAND PLANNING AND LANDSCAPE ARCHITECTURE

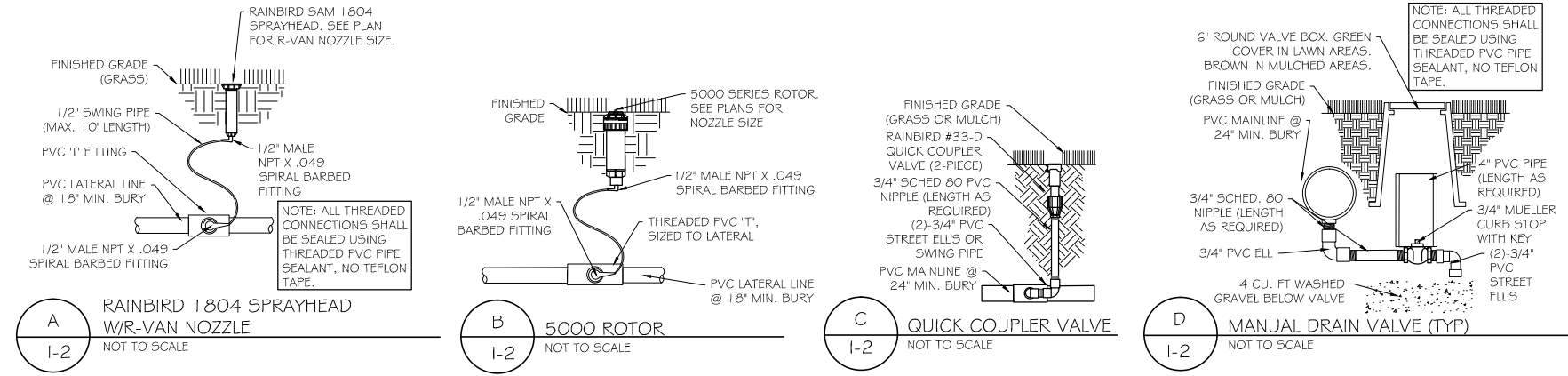
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REVISION			MH	5-15-2020	
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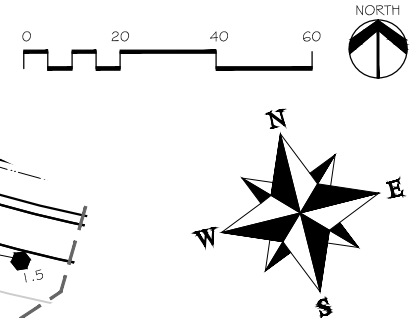
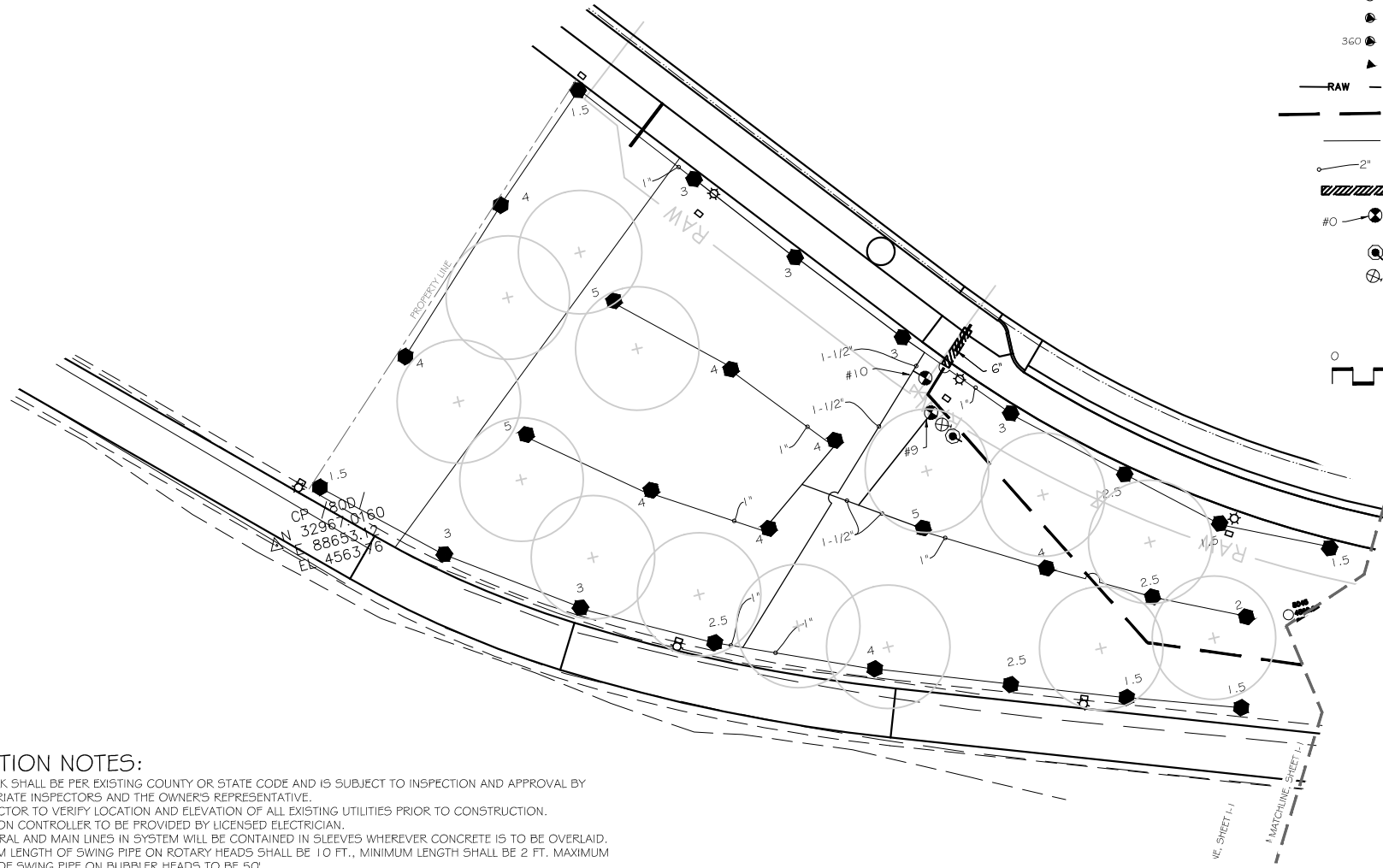
The Riverfront at Dos Rios DOS RIOS PARK

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LEGEND

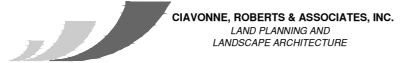
- 30 ○ RAINBIRD 5000 MPR 1/4 NOZZLE W/RADIUS
- 30 ○ RAINBIRD 5000 MPR 1/3 NOZZLE W/RADIUS
- 30 ○ RAINBIRD 5000 MPR 1/2 NOZZLE W/RADIUS
- 30 ○ RAINBIRD 5000 MPR FULL NOZZLE W/RADIUS
- 4 ● RAINBIRD 5000 NOZZLE AS SHOWN
- 1804 SERIES SPRAY HEAD WITH R-VAN ROTARY NOZZLE
- R-VAN 14 NOZZLE
- 360 ○ R-VAN 14 360 NOZZLE
- R-VAN 18 NOZZLE
- 360 ○ R-VAN 18 360 NOZZLE
- R-VAN 24 NOZZLE
- 360 ○ R-VAN 24 360 NOZZLE
- ▲ 1402 BUBBLER DETAIL B/I-1
- RAW — 1 1/2" CL900 RAW WATER SUPPLY (BY OTHERS)
- CLASS 200 PVC MAIN, 3"
- LATERAL PVC PIPING 1" UNLESS NOTED
- 2" PIPE SIZING
- ▨ IRRIGATION SLEEVE, 4" UNLESS NOTED
- #0 ○ RAINBIRD PEB ZONE VALVE, DETAIL A/I-1 SIZE PER VALVE SCHEDULE
- QUICK COUPLER VALVE DETAIL C/I-2
- MANUAL DRAIN VALVE DETAIL D/I-2



IRRIGATION VALVE SCHEDULE

VALVE #	SIZE	TYPE	GPM	PRECIP RATE	
#1	1-1/2"	TURF STREAM ROTOR	51	.62 in/hr	BIKE PARK
#2	1-1/2"	TURF STREAM ROTOR	79/56	.62 in/hr	
#3	1-1/2"	TURF STREAM ROTOR	67/57	.62 in/hr	
#4	1-1/2"	PLAZA BUBBLERS	40	25 gal/min	DOS RIOS PARK
#5	1-1/2"	5000 MPR ROTOR	62.9	.62 in/hr	
#6	1-1/2"	SOUTH TREE BUBBLERS	10.5	25 gal/min	
#7	1-1/2"	TURF STREAM ROTOR	58.0	.62 in/hr	
#8	1-1/2"	5000 ROTOR	46.5	.76 in/hr	
#9	1-1/2"	5000 ROTOR	40.0	.36 in/hr	
#10	1-1/2"	5000 ROTOR	47.0	.43 in/hr	

- IRRIGATION NOTES:**
- ALL WORK SHALL BE PER EXISTING COUNTY OR STATE CODE AND IS SUBJECT TO INSPECTION AND APPROVAL BY APPROPRIATE INSPECTORS AND THE OWNER'S REPRESENTATIVE.
 - CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 - IRRIGATION CONTROLLER TO BE PROVIDED BY LICENSED ELECTRICIAN.
 - ALL LATERAL AND MAIN LINES IN SYSTEM WILL BE CONTAINED IN SLEEVES WHEREVER CONCRETE IS TO BE OVERLAID. MAXIMUM LENGTH OF SWING PIPE ON ROTARY HEADS SHALL BE 10 FT., MINIMUM LENGTH SHALL BE 2 FT. MAXIMUM LENGTH OF SWING PIPE ON BUBBLER HEADS TO BE 50'.
 - ALL MAINS SHALL BE BURIED AT A MINIMUM DEPTH OF 18 IN. ALL LATERALS AT A DEPTH OF 18 IN. ALL CONTROL WIRE PLACED BELOW IRRIGATION PIPING FOR PROTECTION.
 - CONTRACTOR TO INSTALL MANUAL DRAIN VALVES AT LOW POINT ON ALL MAIN LINES.
 - SEE SHEET I-3 FOR DETAILS.
 - SYSTEM IS DESIGNED TO OPERATE AT 55 PSI, PROVIDING MINIMUM 45 PSI AT HEADS.
 - WHERE IRRIGATION IS TO BE LOCATED ADJACENT TO FENCING, LATERALS SHALL BE LOCATED 12 INCHES FROM BACK OF WALK AND 3 INCHES FROM FACE OF FENCE.
 - PIPE FROM CONTROL VALVE TO FIRST "TEE" TO USE 1/2" LARGER THAN VALVE UNLESS NOTED OTHERWISE
 - PIPE SIZE NOTATION INDICATES MINIMUM PIPE SIZE DOWNSTREAM FROM THAT POINT.



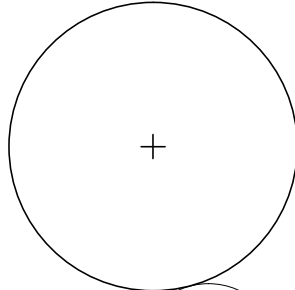
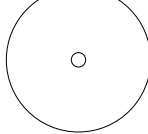
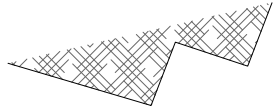





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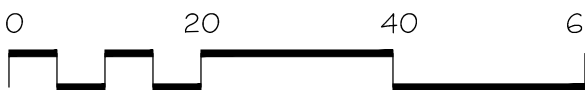
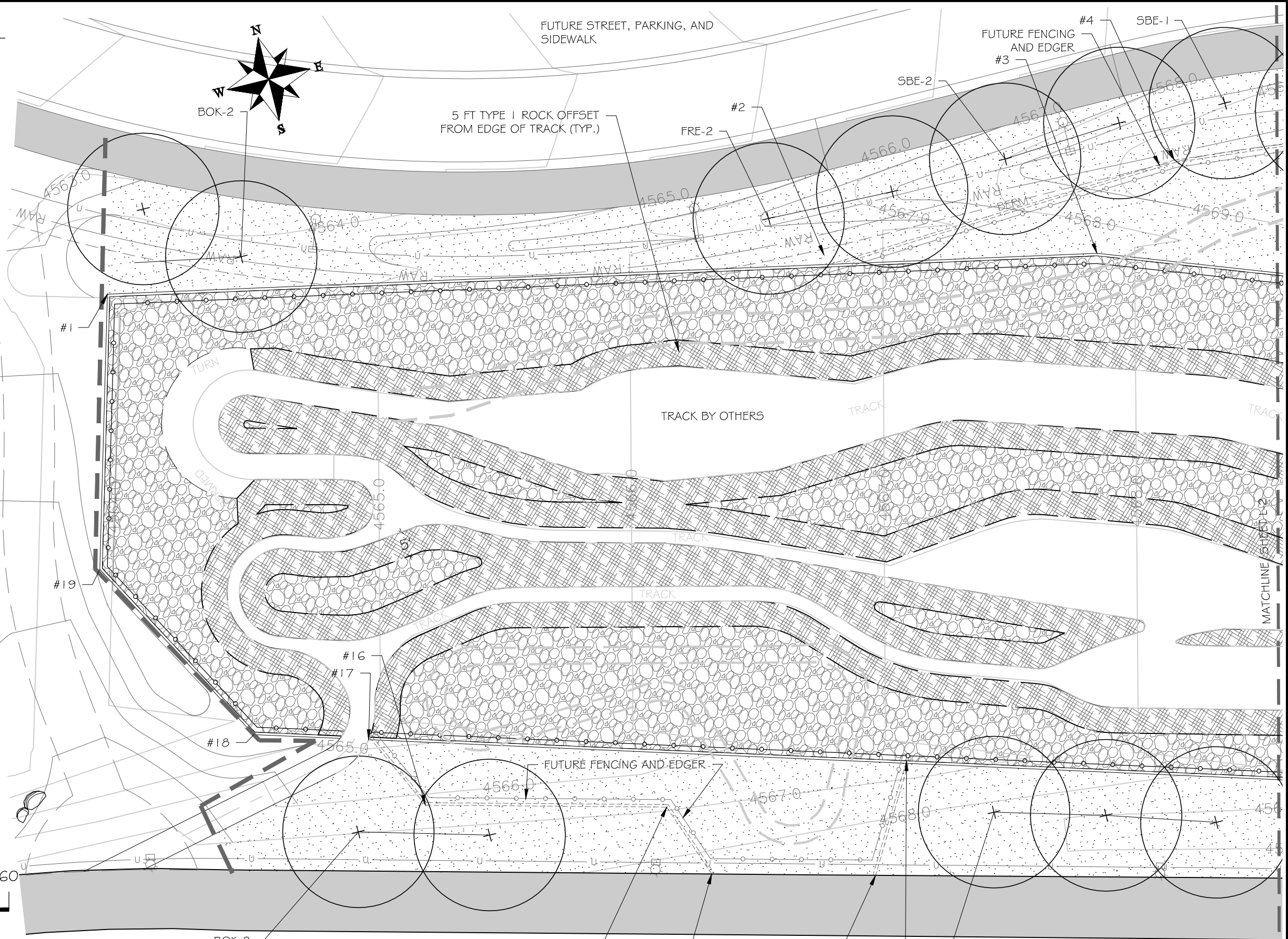
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**The Riverfront at Dos Rios
DOS RIOS PARK**

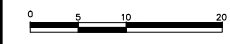
LANDSCAPE LEGEND

-  SHADE TREE
-  ORNAMENTAL TREE
-  SMALLER ROCK TYPE 1
= 1/2" RED DECOMPOSED GRANITE
-  LARGER ROCK TYPE 2
- 3 INCH COLORADO RIVER ROCK
-  TURF WITH CONCRETE EDGER
-  2 RAIL FENCE, SEE DETAIL SHEET L-4
-  FUTURE 2 RAIL FENCE
-  FUTURE CONCRETE

NOTES
 * SEE SHEET L-3 FOR PLANTING NOTES, PLANT LIST AND PLANTING DETAILS.
 * SEE SHEET L-4 FOR FENCING DETAIL
 * SEE SHEET L-4 FOR EDGER LAYOUT POINTS
 * BIKE TRACK AND OBJECTS ARE AN APPROXIMATION FROM AMERICAN RAMP CO.



CLAVONNE, ROBERTS & ASSOCIATES, INC.
 LAND PLANNING AND
 LANDSCAPE ARCHITECTURE

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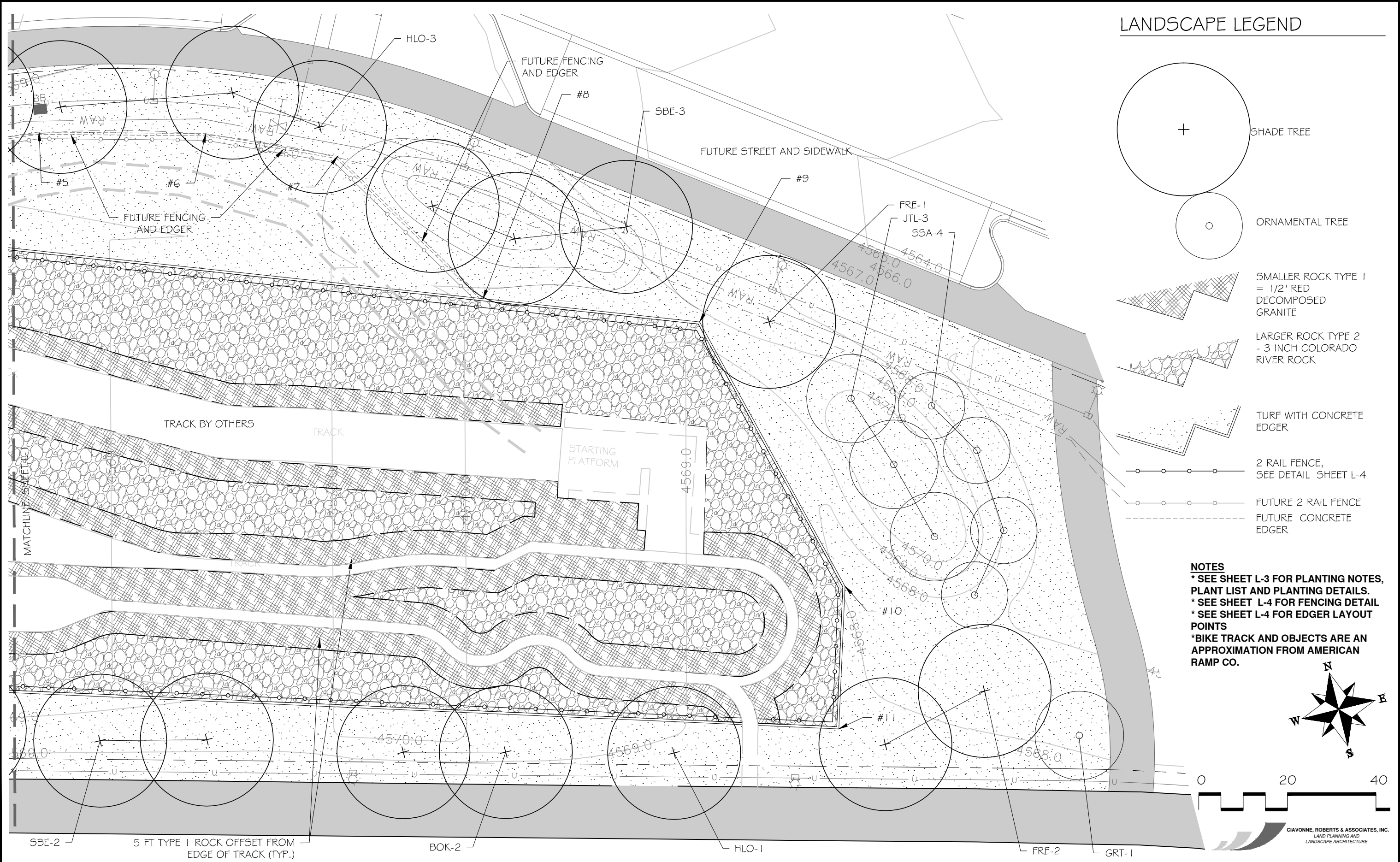


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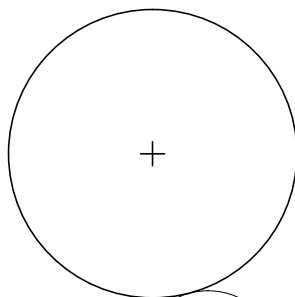
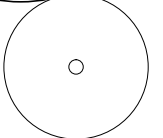
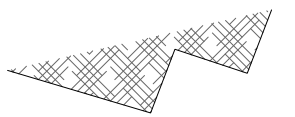
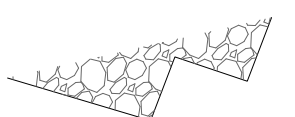
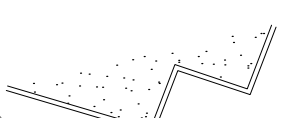
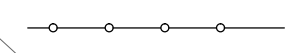


The Riverfront at Dos Rios
 Bike Park Area Landscape

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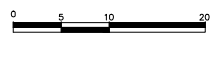
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LANDSCAPE LEGEND

-  SHADE TREE
-  ORNAMENTAL TREE
-  SMALLER ROCK TYPE 1
= 1/2" RED DECOMPOSED GRANITE
-  LARGER ROCK TYPE 2
- 3 INCH COLORADO RIVER ROCK
-  TURF WITH CONCRETE EDGER
-  2 RAIL FENCE, SEE DETAIL SHEET L-4
-  FUTURE 2 RAIL FENCE
-  FUTURE CONCRETE EDGER

NOTES
 * SEE SHEET L-3 FOR PLANTING NOTES, PLANT LIST AND PLANTING DETAILS.
 * SEE SHEET L-4 FOR FENCING DETAIL
 * SEE SHEET L-4 FOR EDGER LAYOUT POINTS
 *BIKE TRACK AND OBJECTS ARE AN APPROXIMATION FROM AMERICAN RAMP CO.

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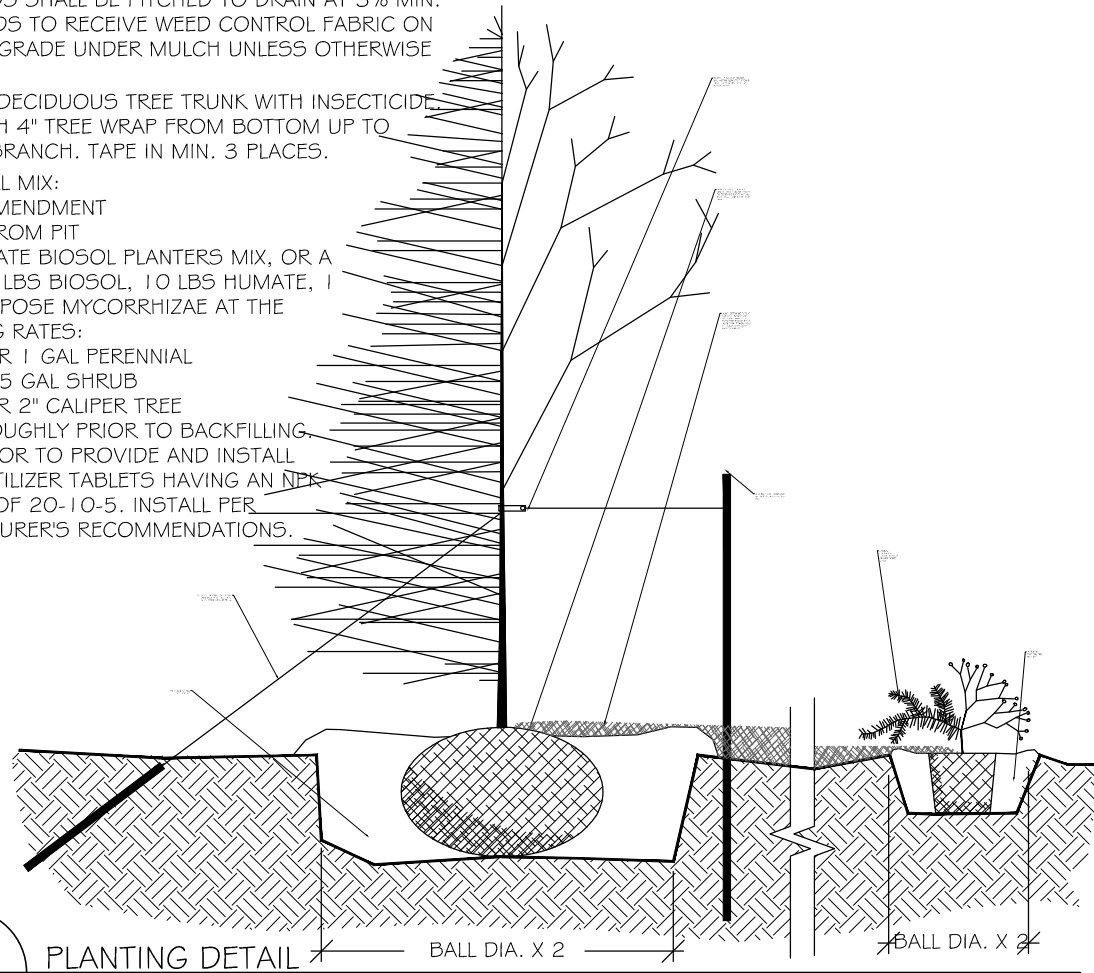
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ENGINEERING DIVISION

The Riverfront at Dos Rios
Bike Park Area Landscape

GIANNONE, ROBERTS & ASSOCIATES, INC.
LAND PLANNING AND
LANDSCAPE ARCHITECTURE

EVERGREEN (OPPOSITE SIDE SAME) DECIDUOUS (OPPOSITE SIDE SAME)

- NOTES:
1. ALL BEDS SHALL BE PITCHED TO DRAIN AT 3% MIN.
 2. ALL BEDS TO RECEIVE WEED CONTROL FABRIC ON FINISHED GRADE UNDER MULCH UNLESS OTHERWISE NOTED.
 3. SPRAY DECIDUOUS TREE TRUNK WITH INSECTICIDE. WRAP WITH 4" TREE WRAP FROM BOTTOM UP TO SECOND BRANCH. TAPE IN MIN. 3 PLACES.
 4. BACKFILL MIX:
1/3 SOIL AMENDMENT
2/3 SOIL FROM PIT
INCORPORATE BIOSOL PLANTERS MIX, OR A MIX OF 50 LBS BIOSOL, 10 LBS HUMATE, 1 LB ALL PURPOSE MYCORRHIZAE AT THE FOLLOWING RATES:
1/2 CUP PER 1 GAL PERENNIAL
1 CUP PER 5 GAL SHRUB
2 CUPS PER 2" CALIPER TREE
MIX THOROUGHLY PRIOR TO BACKFILLING. CONTRACTOR TO PROVIDE AND INSTALL PLANT FERTILIZER TABLETS HAVING AN NPK ANALYSIS OF 20-10-5. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.



A
L-3
PLANTING DETAIL
NOT TO SCALE

PLANTING NOTES

1. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. ALL LANDSCAPING AND IRRIGATION TO CONFORM TO CURRENT ASSOCIATED LANDSCAPE CONTRACTORS OF COLORADO STANDARDS AND SPECIFICATIONS.
3. EQUAL PART MIXTURE OF ROUND-UP AND 2-4-D DILUTED AS PER MANUFACTURER'S RECOMMENDATIONS SHALL BE APPLIED TO ALL ACTIVELY GROWING WEEDS TWO WEEKS PRIOR TO ANY OPERATIONS.
4. ALL LAWN AREAS TO RECEIVE SOIL AMENDMENT. SHRUB BEDS TO RECEIVE 3 INCH DEPTH OF ROCK MULCH.
5. AREAS TO BE PLANTED (AS PER DRAWINGS) TO RECEIVE SOIL AMENDMENT. REMOVE UNSATISFACTORY MATERIAL (INCLUDING ROAD BASE, ASPHALT, CONCRETE AND TRASH) AND REMOVE FROM SITE. ALL LAWN AREAS TO RECEIVE 6 YDS/1000 S.F. SOIL AMENDMENT. SCARIFY ALL AREAS TO RECEIVE SOIL AMENDMENT TO A DEPTH OF 6".
6. SOIL AMENDMENT IS TO CONSIST OF 50% GROUND WELL-AGED MANURE, 50% FINELY GROUND AND AGED WOOD CHIPS. AMENDMENT IS TO BE INCORPORATED WITH FERTILIZER BY TILLING AT THE RATE OF 6 CUBIC YARDS/1000 SF INTO ALL LAWN AREAS.
7. SOIL IS TO BE COMPACTED TO 85% MODIFIED PROCTOR (WHEEL ROLL) TO MINIMIZE SETTLING. BEDS ARE TO BE FILLED TO A DEPTH OF 6" ABOVE ADJACENT EDGE OF CURB, SHAPED TO FORM MOUNDED PLANTING AREA. SHRUB BED TO BE FINISHED WITH A 4:1 SLOPE FROM 2" BELOW ADJACENT CONCRETE TO FINISH GRADE. SHRUB BEDS ADJACENT TO BUILDINGS ARE TO DRAIN AWAY FROM BUILDING.
8. NO WEED FABRIC TO BE USED IN THIS PROJECT
9. TREES ARE TO SPACED AS SCALED FROM THE PLANTING PLAN.
10. ROCK MULCH SHALL BE OF TYPES SPECIFIED PER AREA ON PLANS. ROCK SHALL BE FREE OF TRASH, STICKS, ROOTS OR OTHER DEBRIS.
11. DI-AMMONIUM PHOSPHATE (18-46-0) SHALL BE SUPPLIED IN QUANTITY NECESSARY TO APPLY 1 LB/1000 SF TO ALL LAWN SEED AREAS.
12. LAWN AREAS ARE TO BE HYDROSEEDED WITH SPECIES AND RATES SHOWN ON THIS SHEET AND HYDROMULCHED WITH DYE TO ALLOW INSPECTION FOR COVERAGE. CONTRACTOR IS RESPONSIBLE FOR CLEANING ANY NON-LAWN SURFACES.
13. CONTRACTOR IS TO GUARANTEE ALL PLANT MATERIALS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF WORK. CONTRACTOR IS TO MAINTAIN LAWN AREAS AFTER EACH AREA IS SEEDED AND CONTINUE FOR 30 DAYS OR UNTIL FINAL ACCEPTANCE, WHICHEVER IS LONGER.

NOTE:

STATE LAW REQUIRES THESE PLANS TO BE PREPARED AND STAMPED BY A LICENSED LANDSCAPE ARCHITECT. SUBSEQUENTLY, ANY CHANGES OR MODIFICATIONS TO THESE PLANS, INCLUDING BUT NOT LIMITED TO LANDSCAPE MATERIAL SUBSTITUTIONS AND/OR RELOCATIONS, MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. FAILURE TO DO SO IS CONSIDERED A CRIMINAL OFFENSE PER CRS 12-45.

PLANT LIST

Qty	Key	Common Name	Scientific Name	Size	Mature Height
Deciduous Trees					
6	BOK	Burr Oak	<i>Quercus macrocarpa</i>	2"	50-60'
5	FRE	Frontier Elm	<i>Ulmus x Frontier</i>	2"	25-35'
1	GRT	Golden Rain Tree	<i>Koelreuteria paniculata</i>	1-1/2"	25-30'
3	HBV	Hackberry	<i>Celtis occidentalis</i>	2"	35-60'
4	HLO	Sunburst Honeylocust	<i>Gleditsia triacanthos inermis 'Sunburst'</i>	2"	45-70'
3	JTL	Japanese Tree Lilac	<i>Syringa reticulata 'Ivory Silk'</i>	1-1/2"	15-18'
8	SBV	Sensation Box Elder	<i>Acer negundo 'Sensation'</i>	2"	25-40'
4	SSA	Spring Snow Crabapple	<i>Malus 'Spring Snow'</i>	1-1/2"	15-20'

NOTES:

1. PLANT GROWTH CHARACTERISTICS VARY DUE TO ENVIRONMENTAL CONDITIONS, THEREFORE A RANGE OF AVERAGE MATURE HEIGHTS ARE INDICATED.
2. QUANTITIES SHOWN ARE INCLUSIVE OF ALL SHEETS

CONCRETE LANDSCAPE EDGER

POINT OF INTERSECTION TABLE

EDGER IN THIS CONTRACT

EDGER IN FUTURE CONTRACT

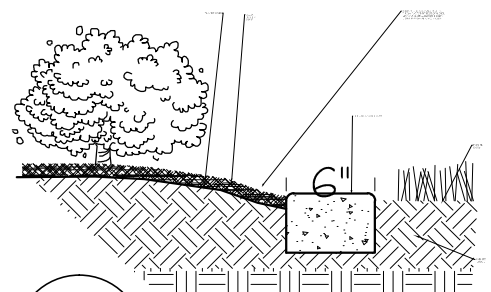
PNT#	NORTHING	EASTING	EDGER IN THIS CONTRACT	EDGER IN FUTURE CONTRACT
1	32829.7	89309.8	X	
2	32800.5	89450		X
3	32789.7	89501.9	X	
4	32803.9	89521.2		X
5	32801.3	89547.6		X
6	32791.7	89584.1		X
7	32779.5	89611.7		X
8	32740.3	89635.7		X
9	32723.3	89681.9	X	
10	32657.3	89699.2	X	

EDGER IN THIS CONTRACT

EDGER IN FUTURE CONTRACT

PNT#	NORTHING	EASTING	EDGER IN THIS CONTRACT	EDGER IN FUTURE CONTRACT
11	32626.4	89690	X	
12	32700.9	89441		X
13	32680.9	89429.3		X
14	32689.1	89397.9		X
15	32704.1	89392.5		X
16	32716.1	89346.2		X
17	32731.9	89338.7		X
18	32738	89316.6	X	
19	32777.1	89295.1	X	

** FUTURE POINTS ARE PROVIDED FOR CURRENT CONTRACT IRRIGATION LAYOUT CONVENIENCE



B
L-3
CONCRETE MOWSTRIP
NOT TO SCALE

- NOTES:
- EDGER OCCURS WHERE INDICATED ON PLAN. ALL CURVES TO BE SMOOTH IN TRANSITION, ALL CORNERS TO BE SQUARE. TOP OF EDGER TO BE SAME AS ADJACENT FINISHED GRADE.

"LO-MOW" FESCUE LAWN SEED MIX:

*AVAILABLE FROM PRAIRIE NURSERY.COM
<https://www.prairienursery.com/resources-and-guides/no-mow-resources/>

HYDROSEED 5 lbs/1000 sf

HYDROMULCH:
FOLLOWING SEED APPLICATION, HYDROMULCH 50 lbs/1000 sf.

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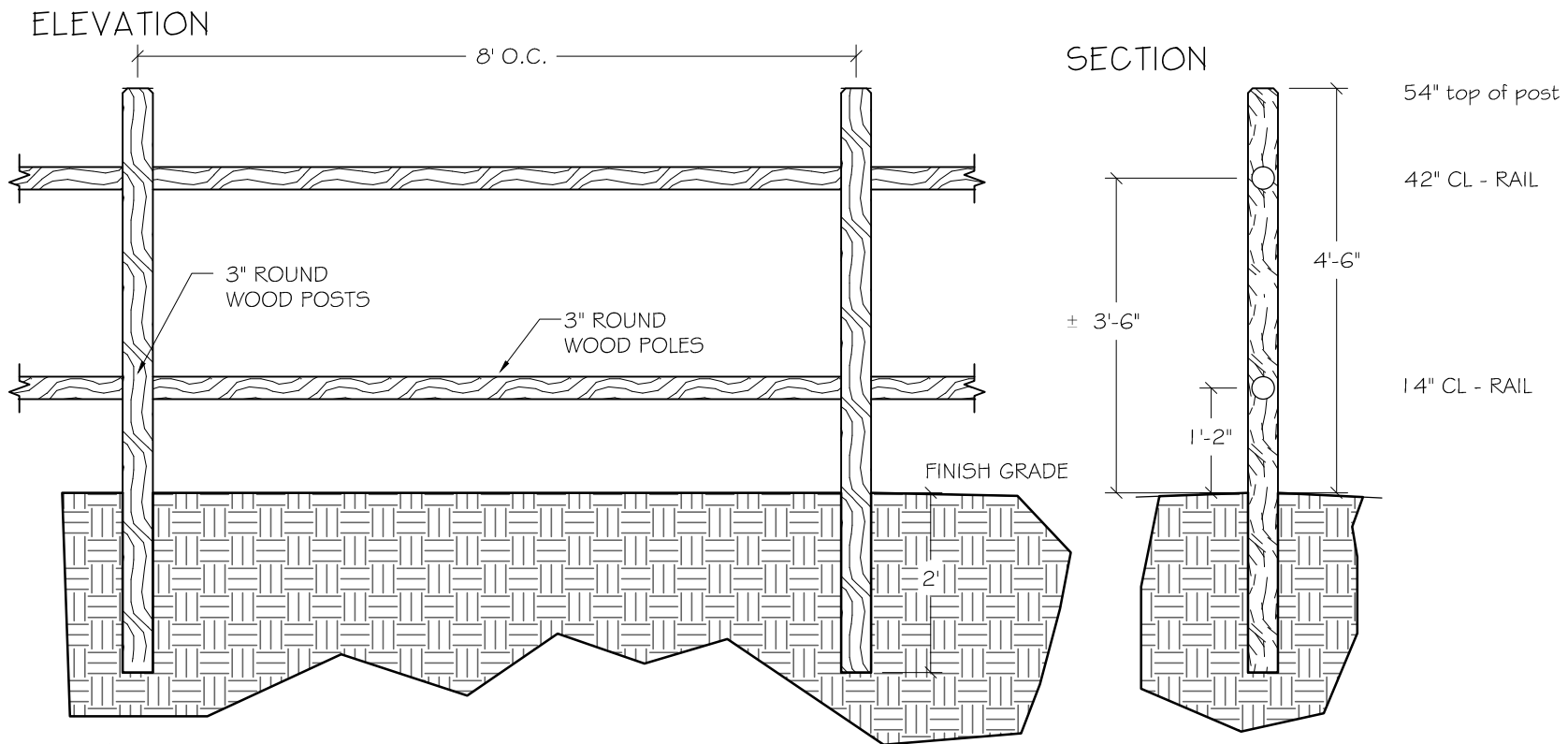


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The Riverfront at Dos Rios
Bike Park Area Landscape



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C
L-4
2 RAIL FENCE
NOT TO SCALE

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LAND PLANNING AND
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The Riverfront at Dos Rios
Bike Park Area Landscape

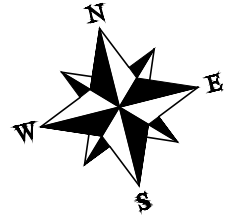
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LEGEND

- RAINBIRD 1804 SERIES SPRAY HEAD WITH R-VAN ROTARY NOZZLE
- R-VAN 14 NOZZLE
- 360 R-VAN 14 360 NOZZLE
- R-VAN 18 NOZZLE
- 360 R-VAN 18 360 NOZZLE
- R-VAN 24 NOZZLE
- 360 R-VAN 24 360 NOZZLE
- 1" CL900 RAW WATER SUPPLY
- CLASS 200 PVC MAIN, 3"
- LATERAL PVC PIPING 1" UNLESS NOTED OTHERWISE
- 2" PIPE SIZING
- IRRIGATION SLEEVE, 4" UNLESS NOTED OTHERWISE
- IRRIGATION CONNECTION DETAIL AI-3
- RAINBIRD LX-D IRRIGATION CONTROLLER WITH GROUND, DETAIL C/I-3, D/I-3
- RAINBIRD PEB ZONE VALVE, SIZE PER VALVE SCHEDULE, DETAIL B/I-3
- QUICK COUPLER VALVE DETAIL F/I-3
- MANUAL DRAIN VALVE DETAIL H/I-3

NOTES
SEE SHEET I-3 FOR IRRIGATION NOTES AND IRRIGATION DETAILS.



IRRIGATION VALVE SCHEDULE

VALVE #	SIZE	TYPE	GPM	PRECIP RATE
#1	1-1/2"	TURF STREAM ROTOR	51	.62 in/hr
#2	1-1/2"	TURF STREAM ROTOR	79/56	.62 in/hr
#3	1-1/2"	TURF STREAM ROTOR	67/57	.62 in/hr

* SECOND GPM ESTIMATE IS FOLLOWING BIKE PARK EXPANSION
* OPTIMUM PRESSURE FOR ZONES: 45 PSI

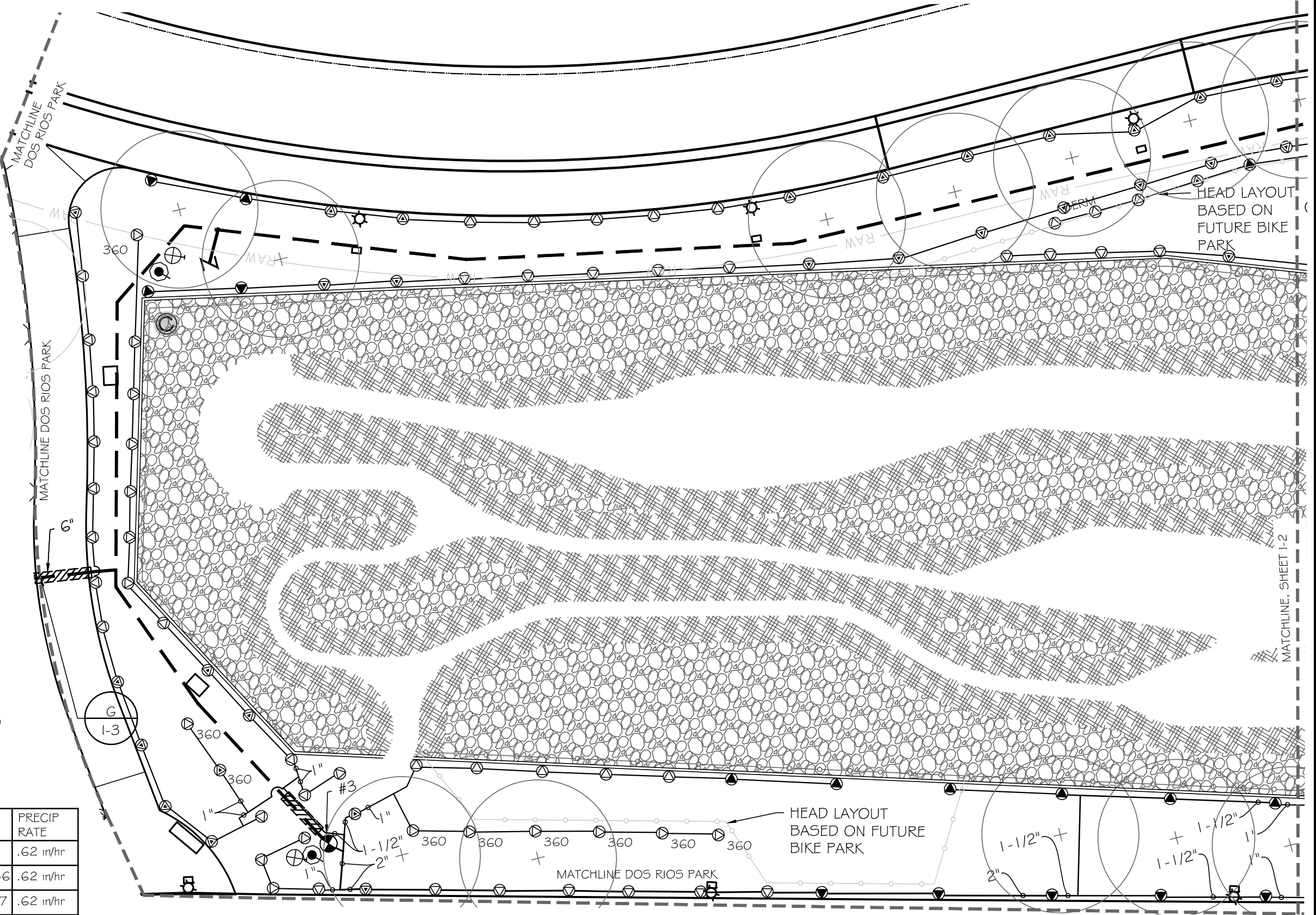


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REVISION Δ					

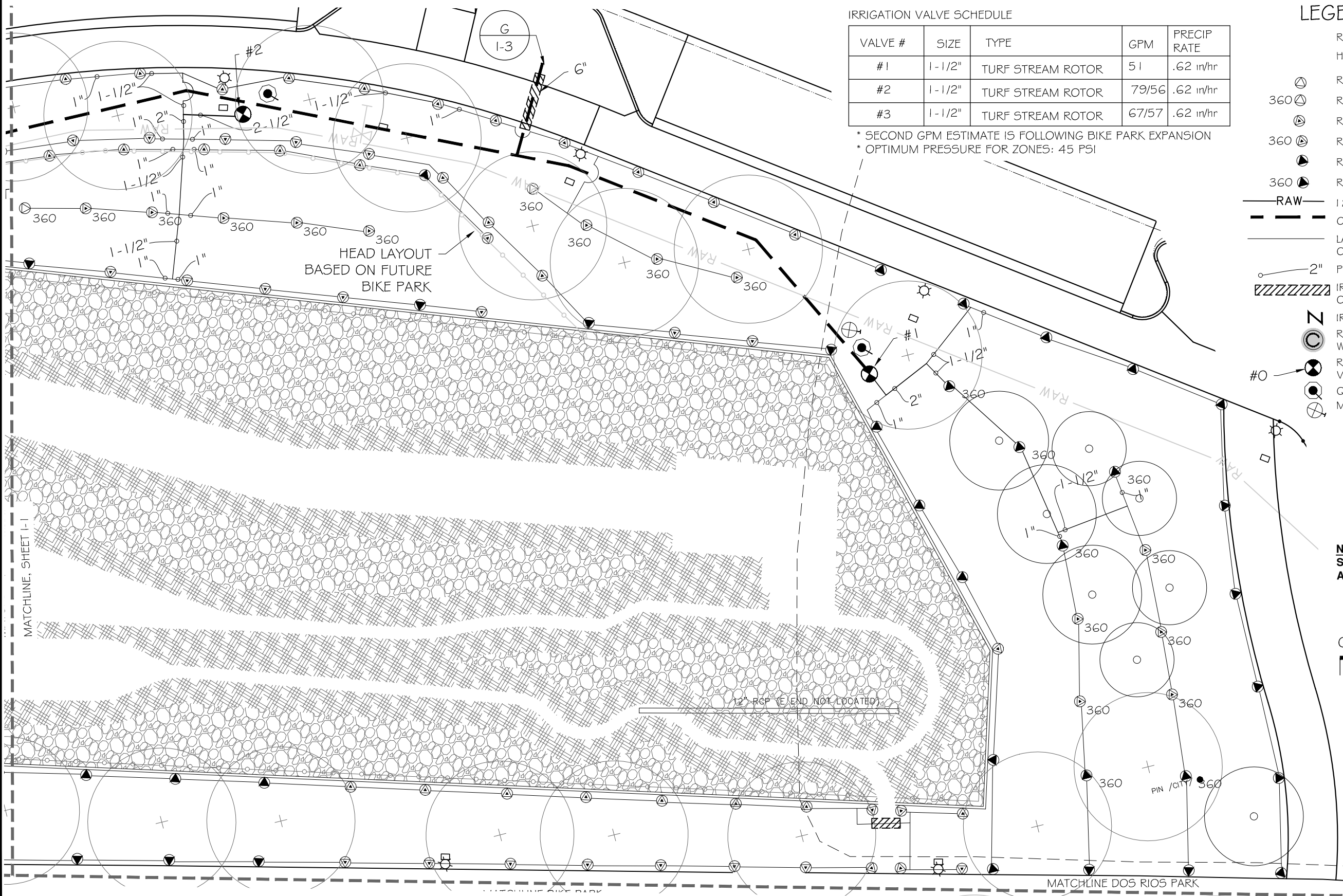


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**The Riverfront at Dos Rios
Bike Park Area Irrigation**



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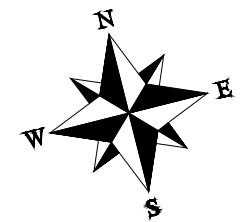
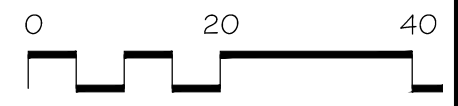
IRRIGATION VALVE SCHEDULE

VALVE #	SIZE	TYPE	GPM	PRECIP RATE
#1	1-1/2"	TURF STREAM ROTOR	51	.62 in/hr
#2	1-1/2"	TURF STREAM ROTOR	79/56	.62 in/hr
#3	1-1/2"	TURF STREAM ROTOR	67/57	.62 in/hr

* SECOND GPM ESTIMATE IS FOLLOWING BIKE PARK EXPANSION
 * OPTIMUM PRESSURE FOR ZONES: 45 PSI

- LEGEND
- RAINBIRD 1804 SERIES SPRAY HEAD WITH R-VAN ROTARY NOZZLE
 - R-VAN 14 NOZZLE
 - 360 R-VAN 14 360 NOZZLE
 - R-VAN 18 NOZZLE
 - 360 R-VAN 18 360 NOZZLE
 - R-VAN 24 NOZZLE
 - 360 R-VAN 24 360 NOZZLE
 - RAW 12" CL900 RAW WATER SUPPLY
 - CLASS 200 PVC MAIN, 3"
 - LATERAL PVC PIPING 1" UNLESS NOTED OTHERWISE
 - PIPE SIZING
 - IRRIGATION SLEEVE, 4" UNLESS NOTED OTHERWISE
 - IRRIGATION CONNECTION DETAIL A/I-3
 - RAINBIRD LX-D IRRIGATION CONTROLLER WITH GROUND, DETAIL C/I-3, D/I-3
 - RAINBIRD PEB ZONE VALVE, SIZE PER VALVE SCHEDULE, DETAIL B/I-3
 - QUICK COUPLER VALVE DETAIL F/I-3
 - MANUAL DRAIN VALVE DETAIL H/I-3

NOTES
 SEE SHEET I-3 FOR IRRIGATION NOTES AND IRRIGATION DETAILS.



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALES
REVISION			CR	4-29-2020	
REVISION			CR	4-29-2020	
REVISION			MH	4-29-2020	
REVISION			TCP	2020	
REVISION					

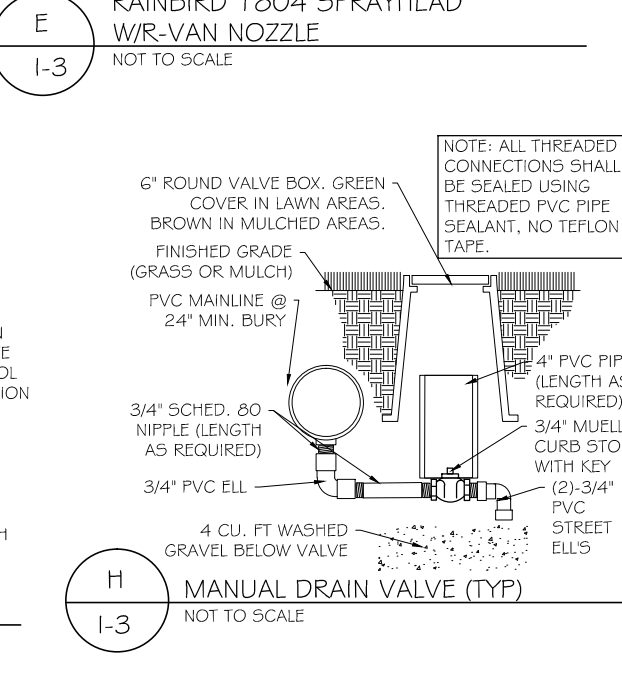
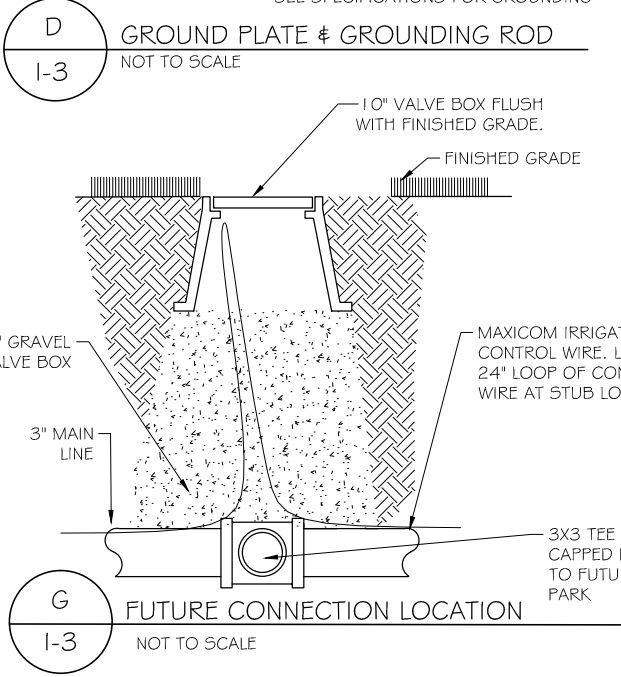
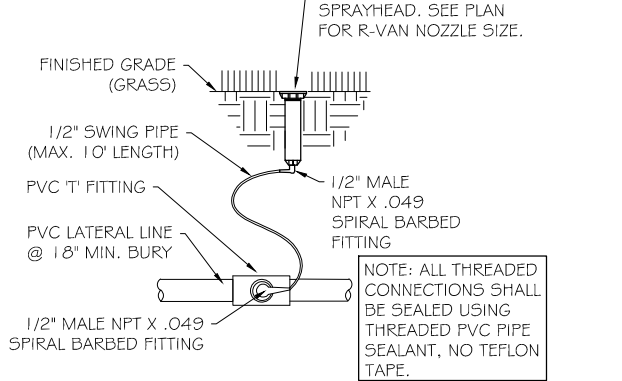
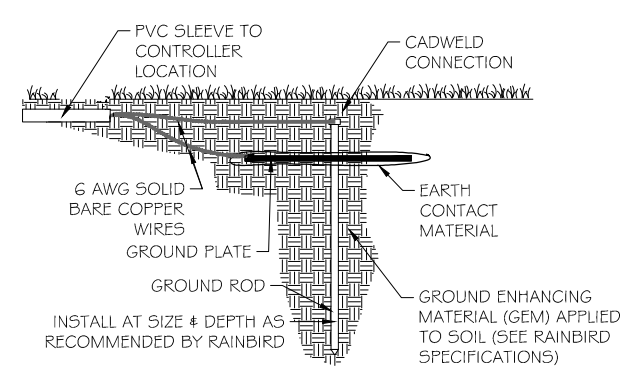
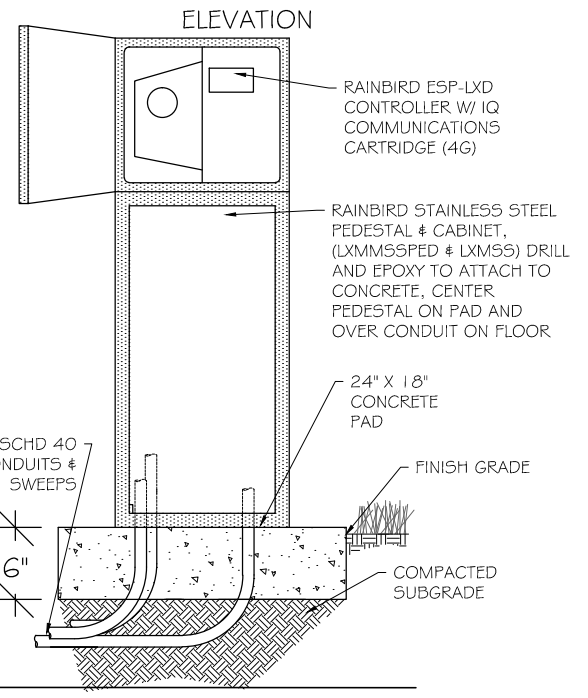
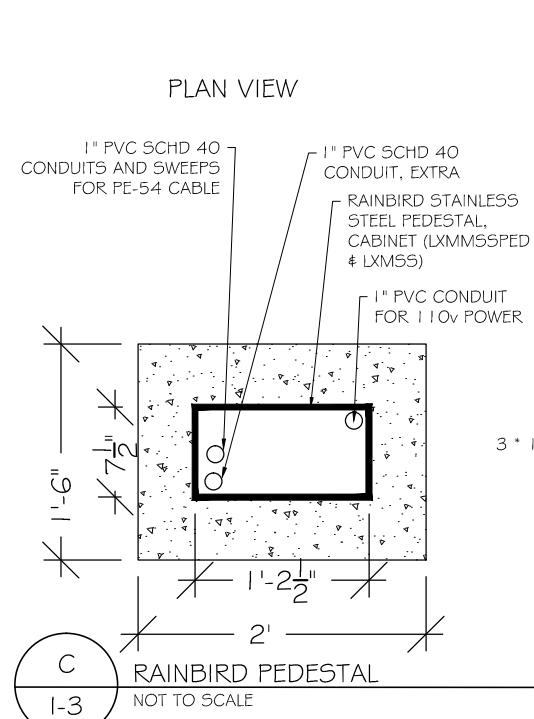
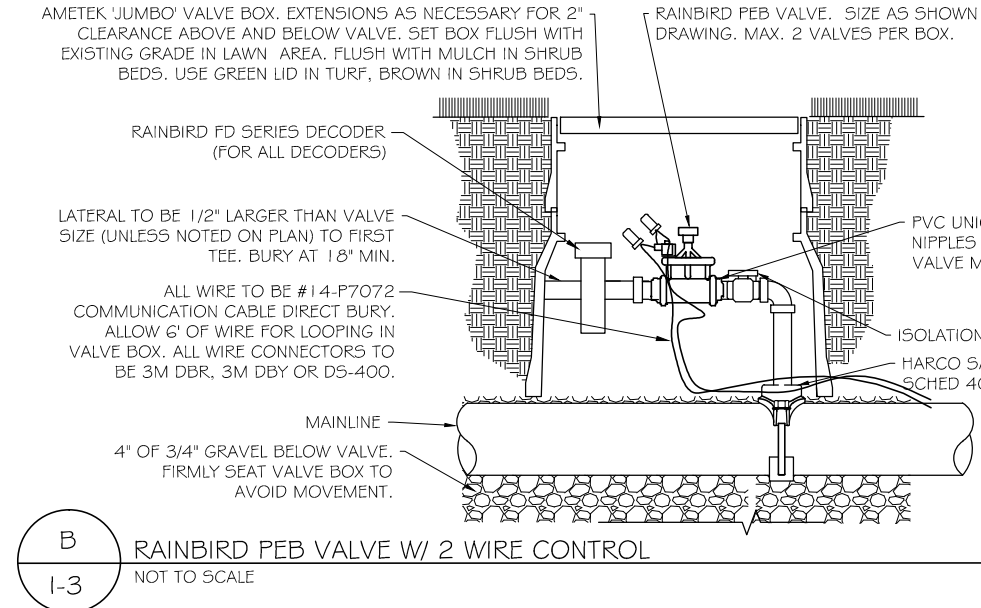
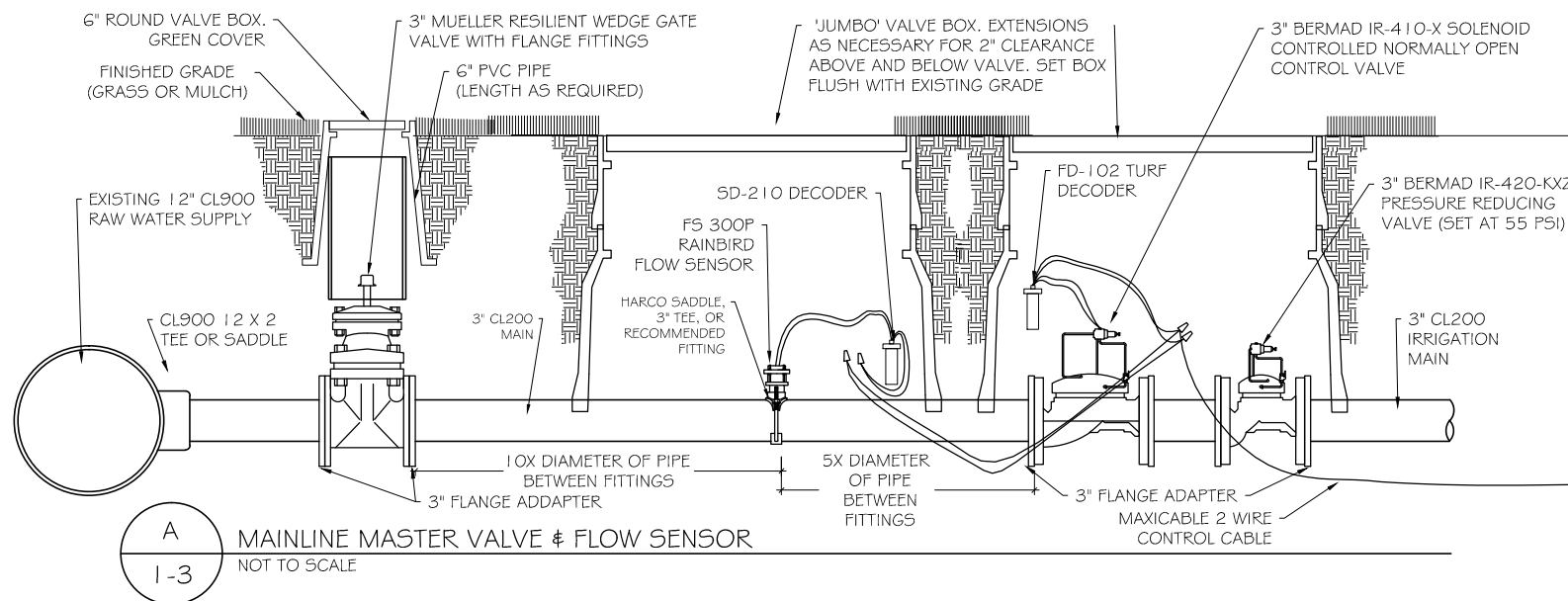


PUBLIC WORKS
 ENGINEERING DIVISION

The Riverfront at Dos Rios
 Bike Park Area irrigation

GIAVONNE, ROBERTS & ASSOCIATES, INC.
 LAND PLANNING AND
 LANDSCAPE ARCHITECTURE

S:\Projects\2019 job numbers\1444 5-5-20 Dos Rios Park Multiple Projects\1444 5-5-20 Dos Rios - Irrigation.dwg, 5/20/2020 5:06:52 PM



IRRIGATION NOTES:

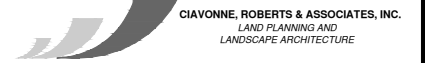
1. ALL WORK SHALL BE PER EXISTING COUNTY OR STATE CODE AND IS SUBJECT TO INSPECTION AND APPROVAL BY APPROPRIATE INSPECTORS AND THE OWNER'S REPRESENTATIVE.
2. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. IRRIGATION CONTROLLER TO BE PROVIDED BY LICENSED ELECTRICIAN.
4. ALL LATERAL AND MAIN LINES IN SYSTEM WILL BE CONTAINED IN SLEEVES WHEREVER CONCRETE IS TO BE OVERLAID.
5. MAXIMUM LENGTH OF SWING PIPE ON ALL HEADS SHALL BE 10 FT., MINIMUM LENGTH SHALL BE 2 FT.
6. ALL MAINS SHALL BE BURIED AT A MINIMUM DEPTH OF 18 IN. ALL LATERALS AT A DEPTH OF 18 IN. ALL CONTROL WIRE PLACED BELOW IRRIGATION PIPING FOR PROTECTION.
7. CONTRACTOR TO INSTALL MANUAL DRAIN VALVES AT LOW POINT ON ALL MAIN LINES.
8. SEE SHEET I-3 FOR DETAILS.
9. SYSTEM IS DESIGNED TO OPERATE AT 55 PSI, PROVIDING MINIMUM 45 PSI AT HEADS.
10. WHERE IRRIGATION IS TO BE LOCATED ADJACENT TO FENCING, LATERALS SHALL BE LOCATED 12 INCHES FROM BACK OF WALK AND 3 INCHES FROM FACE OF FENCE.
11. PIPE FROM CONTROL VALVE TO FIRST "TEE" TO USE 1/2" LARGER THAN VALVE UNLESS NOTED OTHERWISE
12. PIPE SIZE NOTATION INDICATES MINIMUM PIPE SIZE DOWNSTREAM FROM THAT POINT.

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALES
REVISION			CR	4-29-2020	
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REVISION			MH	4-29-2020	
REVISION			ICP	2020	
REVISION					



PUBLIC WORKS ENGINEERING DIVISION


The Riverfront at Dos Rios Bike Park Area Irrigation




STREET LIGHTING GENERAL NOTES:

1. THIS PROJECT WILL BE BID FOR THE INSTALLATION OF THE PEDESTRIAN, AND STREET LIGHTING. BASE PROJECT: COMPLETE THE MAIN PATH PEDESTRIAN AND STREET LIGHTING FOR PHASE 2 THE RIVER FRONT AT DOS RIOS.
2. THIS PROJECT CONSISTS OF WORK TO INSTALL ALL WIRING, CONDUIT, PULL BOXES, AND POWER PANEL. REFERENCE SCHEDULE OF LIGHTING DEVICES AND SUMMARY OF QUANTITIES.
3. TYPES "5A & 5B" LIGHT STANDARD & LUMINARIES (PEDESTRIAN AND STREET LIGHT), SHALL INCLUDE THE FOLLOWING ITEMS FROM VISUAL INTEREST LIGHTING LOCATED AT 3444 BRIGHTON BLVD, DENVER, CO 80216, 303.861.8448.
4. TYPE "5A" PHILLIP GARDCO GL13-1-2-70LA-G345-NW-UNV-BLP-LF, PROVIDE COLLISION BREAK AWAY CONNECTORS. FIXTURE TO BE 15' ABOVE FINISHED GRADE TO BOTTOM OF LIGHT. POLE #FRS-15-4-D1-BLP
5. TYPE "5B" PHILLIP GARDCO GL18-1-2-2230LA-9600-NW-UNV-LF-PC-RPA2, PROVIDE COLLISION BREAK AWAY CONNECTORS. FIXTURE TO BE 27' ABOVE FINISHED GRADE TO BOTTOM OF LIGHT. POLE #FRS-27-5-D1-BLP
6. PROVIDE 2 TOTAL NEW MILL BANK PANELS (PP2, PP3), 208V, 3PH, 4W 100A , #CP3B5151XK42C5XC5LI LOCATED AS SHOWN IN DRAWINGS. PANEL PP1 IS EXISTING AND TO BE REUSED AS SHOWN IN DRAWINGS
7. ALL PEDESTRIAN LIGHTING FIXTURES(TYPE "5A") INSTALLED ON THE PROJECT WILL BE CONTROLLED WITH A ELECTRICAL CONTRACTOR SUPPLIED PHOTO CELL TO BE LOCATED IN EACH NEW MILBANK POWER PEDESTALS IN SWITCHED SECTION OF PANEL. ORIENT PANEL SO THAT PHOTOCELL WILL BE ORIENTED NORTH, TYPICAL.
8. ALL STREET LIGHTING FIXTURES(TYPE "5B") WILL EACH BE ORDERED WITH THEIR OWN PHOTOCELL INSTALLED IN THE FIXTURE, AND POWERED WITH NEW 208 VOLT 3PHASE MILBANK POWER PEDESTAL ON UN-SWITCHED SECTION.
9. PROVIDE 2" PVC SCHEDULE 80 CONDUIT BETWEEN EACH JUNCTION BOX LABELED "UB".
10. COORDINATE LOCATION AND WIRING FOR SPRINKLER CONTROLLER WITH PROVIDER PRIOR TO TRENCHING, REFERENCE DRAWING E6.
11. ELEVATIONS SHOWN IN THE SCHEDULE OF LIGHTING DEVICES ON THE PLANS SHEETS REPRESENT THE DESIGN FINISHED GRADE OR THE EXISTING GROUND FINISHED GRADE. THESE ELEVATIONS DO NOT INDICATE THE TOP ELEVATION OF THE LUMINARIES (PEDESTRIAN) FOUNDATION. PEDESTRIAN LIGHTING FOUNDATIONS SHALL BE CONSTRUCTED PER THE MANUFACTURERS RECOMMENDATIONS.
12. PULL BOXES FOR LIGHT STANDARD (PEDESTRIAN AND STREET) WILL BE TYPE 1 CDOT PULL BOXES 11"X18"X12".
13. PULL BOXES WILL BE INSTALLED IN GRADES WITHOUT CONCRETE WHERE POSSIBLE.
14. ALL ELECTRICAL CONDUIT SHALL BE SCHEDULE 80 PVC UNLESS NOTED OTHERWISE, TYPICAL.
15. UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS SHALL INCLUDE PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. FURNISH ALL REQUIRED ITEMS WHETHER SUCH ARE SPECIFICALLY SHOWN OR NOT.
16. INFORMATION SHOWN ON DRAWINGS IS DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. OBTAIN VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS AMONG TRADES AND FOR ADJUSTING THE WORK REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDER GROUND OBSTRUCTIONS AND MAKING ALLOWANCES FOR FIELD ADJUSTMENT OF LOCATION OF LUMINARIES TO AVOID SHUT DOWN OF ANY SERVICES OR SYSTEMS THAT ARE TO REMAIN.
17. BEFORE SUBMITTING THE BID ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE THE PREMISES AND/OR JOB SITE SO AS TO ASCERTAIN THE EXISTING CONDITIONS IN WHICH THE CONTRACTOR WILL BE OBLIGED TO OPERATE IN PERFORMING HIS PART OF THE CONTRACT TO ANTICIPATE ANY POSSIBLE SPACE RESTRICTIONS OR CONSTRAINTS THAT COULD AFFECT THE TIMELY COMPLETION OF THE ELECTRICAL WORK IN ACCORDANCE WITH THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL REPORT TO THE THE PROJECT ENGINEER OR GENERAL CONTRACTOR ANY CONDITIONS THAT MIGHT PREVENT THE SPECIFIED ELECTRICAL WORK FROM BEING PERFORMED IN THE MANNER INTENDED. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED TO THE ELECTRICAL CONTRACTOR FOR FAILURE TO VISIT THE PROJECT SITE, OR FOR ANY ALLEGED MISUNDERSTANDING OF THE MATERIALS TO BE FURNISHED OR WORK TO BE DONE..
18. THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES WHOSE WORK RELATES TO OR IS DEPENDENT ON ELECTRICAL WORK TO BECOME FULLY INFORMED OF THE EXTENT AND CHARACTER OF THEIR SPECIFIED WORK AND BE ABLE TO COORDINATE WITH OTHER TRADES WHILE AVOIDING POSSIBLE INTERFERENCE WITH THE ELECTRICAL WORK.
19. THE CONTRACTOR SHALL USE CONDUIT PLUGS AND SEALING PLUGS FOR SEALING ALL EMPTY CONDUITS AND CONDUITS OCCUPIED WITH CABLING, RESPECTIVELY, INSTALLED UNDER THIS CONTRACT. CONDUIT PLUGS SHALL BE MANUFACTURED FROM HIGH-IMPACT PLASTIC COMPONENTS, COMBINED WITH DURABLE ELASTIC GASKETS. THEY SHALL BE CORROSION PROOF AND APPROPRIATE FOR USE AS EITHER A LONG-TERM OR TEMPORARY SEAL. CONDUIT PLUGS SHALL BE REMOVABLE AND REUSABLE. THEY SHALL BE BOTH WATERTIGHT AND AIRTIGHT TO PREVENT THE FLOW OF WATER AND BUILDUP OF SEDIMENTATION WITHIN THE CONDUIT. EACH CONDUIT PLUG SHALL BE EQUIPPED WITH A ROPE TIE DEVICE TO ALLOW THE SECURING OF PULL ROPE TO THE PLUG'S BACK COMPRESSION PLATE. THE CONTRACTOR SHALL ATTACH THE PULL ROPE TO THE BACK COMPRESSION PLATE OF THE PLUG AND STORE EXCESS SLACK PULL ROPE BEHIND THE PLUG WITHIN THE CONDUIT FOR FUTURE USE.
20. LIGHT LEVELS FOR PATHWAYS WAS DESIGNED FOR A MINIMUM OF 0.6 FOOT-CANDLES AS RECOMMENDED BY THE ILLUMINATION ENGINEERS SOCIETY(IES). CHANGES TO LIGHTING WILL REQUIRE RECALCULATION OF LIGHT LEVELS TO INSURE ADEQUATE COVERAGE.

PP1-X ELECTRICAL CIRCUIT NUMBER (REFER TO PANEL SCHEDULES)

UB  HEAVY DUTY, TRAFFIC RATED, FLUSH-TO-GRADE POLYMER CONCRETE SPLICE BOX WITH HEAVY DUTY, TRAFFIC RATED, BOLTED COVER. 11"X18"X12" TYPE 1. NUMBER ASSOCIATED IS NOT THE QUANTITY BUT THE IDENTIFIER ONLY.

 UNDER GROUND BURIED RACEWAY (2#6 THWN CU AND 1#8 GND) IN 2" PVC CONDUIT (UNLESS NOTED OTHERWISE ON PLANS) IN 24" DEEP TRENCH, BURY AND COMPACTED BACKFILL TO CITY STANDARDS.

 INSTALL SINGLE ARM PEDESTRIAN STANDARD OR STREET STANDARD AS SPECIFIED. NUMBER ASSOCIATED IS NOT THE QUANTITY BUT THE IDENTIFIER ONLY.



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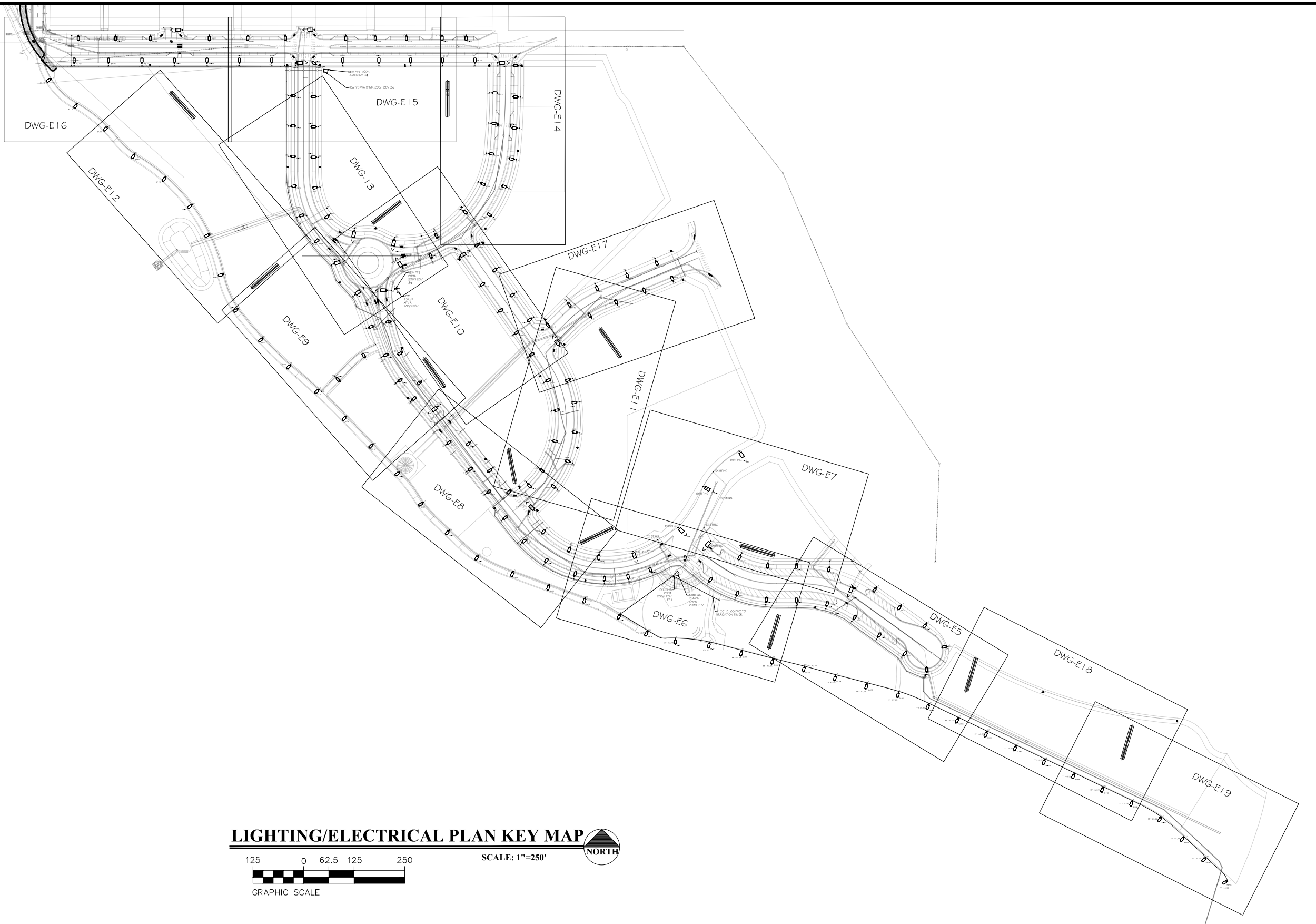
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION Δ			AJM	5-6-2020
REVISION Δ			AJM	5-6-2020
REVISION Δ			AJM	5-6-2020
REVISION Δ			BH	5-6-2020



PUBLIC WORKS
ENGINEERING DIVISION

THE RIVERFRONT AT DOS RIOS WAY PHASE 2
COVER SHEET PLAN

E1
of 41



LIGHTING/ELECTRICAL PLAN KEY MAP
 SCALE: 1"=250'
 GRAPHIC SCALE
 NORTH



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REVISION Δ			AJM	5-6-2020
REVISION Δ			BH	5-6-2020



PUBLIC WORKS
 ENGINEERING DIVISION

THE RIVERFRONT AT DOS RIOS WAY PHASE 2
 COMPOSITE UTILITY PLAN

Schedule of Lighting Devices

DESCRIPTION				LUMINAIRE LED PEDESTRIAN (70 WATT) TYPE SA	FOUNDATION SPECIAL EACH	LUMINAIRE LED STREET (250 WATT) TYPE SB	NOTES
SHEET NO.	TYPE	NORTH	EAST	PLAN	PLAN	PLAN	
E5	SA-1	89825.877	32646.663	1	1		1
E5	SA-2	89766.867	32688.009	1	1		1
E5	SA-3	89875.282	32710.292	1	1		1
E5	SA-4	89704.615	32732.812	1	1		1
E5	SA-5	89824.337	32766.157	1	1		1
E5	SA-6	89643.788	32776.589	1	1		1
E5	SA-8	89577.506	32809.046	1	1		1
E5	SA-9	89761.277	32811.541	1	1		1
E5	SA-10	89503.034	32817.926	1	1		1
E5	SA-14	89700.450	32855.319	1	1		1
E5,E7	SA-22	89585.113	32906.980	1	1		1
E5	SA-150	89523.015	32659.990	1	1		1
E5	SA-151	89600.022	32637.874	1	1		1
E5	SA-152	89677.760	32617.219	1	1		1
E5	SA-153	89755.837	32596.210	1	1		1
E5	SA-154	89830.708	32566.494	1	1		1
E5	SB-1	89642.680	32858.944		1	1	1
E6	SA-7	89067.257	32789.217	1	1		1
E6	SA-11	89428.044	32819.141	1	1		1
E6	SA-12	88980.872	32828.921	1	1		1
E6	SA-13	89354.793	32835.247	1	1		1
E6	SA-16	89287.203	32869.590	1	1		1
E6	SA-17	89028.317	32871.241	1	1		1
E6	SA-18	89088.116	32876.147	1	1		1
E6,E8	SA-19	88954.272	32883.173	1	1		1
E6	SA-20	89144.888	32893.418	1	1		1
E6,E7	SA-23	89502.985	32914.926	1	1		1
E6,E7	SA-24	89432.995	32916.104	1	1		1
E6	SA-26	89227.297	32922.143	1	1		1
E6,E7	SA-28	89365.799	32935.719	1	1		1
E6	SA-29	89015.169	32936.155	1	1		1
E6	SA-45	89135.640	32746.932	1	1		1
E6	SA-51	89204.262	32728.130	1	1		1
E6	SA-57	89288.069	32718.602	1	1		1
E6	SA-146	89368.124	32698.521	1	1		1
E6	SA-147	89444.958	32678.506	1	1		1
E8	SA-15	88891.713	32861.684	1	1		1
E8	SA-21	88802.444	32894.107	1	1		1
E8	SA-25	88881.804	32917.061	1	1		1
E8	SA-27	88716.260	32934.333	1	1		1
E8	SA-30	88943.781	32955.242	1	1		1
E8	SA-31	88825.169	32966.229	1	1		1
E8	SA-32	88644.405	32996.725	1	1		1
E8	SA-33	88882.280	32998.104	1	1		1
E8	SA-34	88778.023	33024.558	1	1		1
TABLE TOTALS				44	45	1	

SCHEDULE OF LIGHTING DEVICES NOTES:
1. FOUNDATION TOP HEIGHT EQUAL TO ADJACENT SIDEWALK

Schedule of Lighting Devices

DESCRIPTION				LUMINAIRE LED PEDESTRIAN (70 WATT) TYPE SA	FOUNDATION SPECIAL EACH	LUMINAIRE LED STREET (250 WATT) TYPE SB	NOTES
SHEET NO.	TYPE	NORTH	EAST	PLAN	PLAN	PLAN	
E8	SA-35	88579.315	33065.667	1	1		1
E8	SA-36	88737.685	33088.173	1	1		1
E8	SA-37	88797.000	33096.491	1	1		1
E8	SA-40	88521.380	33141.028	1	1		1
E8	SA-41	88691.748	33144.907	1	1		1
E8	SA-43	88750.126	33148.836	1	1		1
E8	SA-47	88639.035	33210.086	1	1		1
E8	SA-48	88696.742	33215.044	1	1		1
E8	SB-5	88855.953	33046.379		1	1	1
E8,E9	SB-8	88616.513	33302.918		1	1	1
E9	SA-46	88455.632	33209.637	1	1		1
E9	SA-52	88389.741	33278.318	1	1		1
E9	SA-55	88552.359	33318.702	1	1		1
E9	SA-56	88322.082	33344.725	1	1		1
E9	SA-58	88517.701	33364.368	1	1		1
E9	SA-60	88374.841	33365.523	1	1		1
E9	SA-61	88575.881	33366.080	1	1		1
E9	SA-63	88251.939	33405.657	1	1		1
E9	SA-64	88436.835	33423.772	1	1		1
E9	SA-65	88481.902	33427.611	1	1		1
E9	SA-67	88528.979	33436.968	1	1		1
E9	SA-71	88183.822	33471.982	1	1		1
E9	SA-73	88445.239	33497.828	1	1		1
E9	SA-75	88500.500	33513.864	1	1		1
E9	SA-78	88122.302	33544.574	1	1		1
E10,E17	SA-66	88843.398	33428.109	1	1		1
E10,E17	SA-76	88848.968	33521.133	1	1		1
E10,E17	SA-81	88805.898	33582.500	1	1		1
E10	SA-83	88721.758	33601.364	1	1		1
E10	SA-85	88762.805	33643.901	1	1		1
E10,E13	SA-86	88601.720	33669.160	1	1		1
E10	SA-87	88719.143	33706.112	1	1		1
E10	SA-90	88609.531	33730.500	1	1		1
E10,E14	SA-94	88679.223	33787.797	1	1		1
E10	SA-148	88767.086	33536.848	1	1		1
E10	SA-149	88805.489	33481.367	1	1		1
E10,E13	SB-13	88492.078	33590.140		1	1	1
E10,E13	SB-14	88528.906	33645.840		1	1	1
E10	SB-16	88670.287	33673.021		1	1	1
E10,E13	SB-17	88508.727	33716.969		1	1	1
E10,E13	SB-18	88410.274	33738.172		1	1	1
E11,E8	SA-38	88907.782	33102.077	1	1		1
E11,E8	SA-39	88839.327	33112.007	1	1		1
E11	SA-42	88869.449	33148.362	1	1		1
E11	SA-44	88943.586	33165.668	1	1		1
TABLE TOTALS				38	45	7	

SCHEDULE OF LIGHTING DEVICES NOTES:
1. FOUNDATION TOP HEIGHT EQUAL TO ADJACENT SIDEWALK

STREET LIGHTING GENERAL NOTES:

- EACH LIGHT TO HAVE A PULL BOX "UB", REFERENCE ELECTRICAL SHEETS.



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REVISION Δ			DESIGNED BY	AJM	DATE	5-6-2020
REVISION Δ			CHECKED BY	AJM	DATE	5-6-2020
REVISION Δ			APPROVED BY	BH	DATE	5-6-2020



PUBLIC WORKS
ENGINEERING DIVISION

THE RIVERFRONT AT DOS RIOS WAY PHASE 2
LIGHTING SCHEDULES

E3
of 41

Schedule of Lighting Devices						
DESCRIPTION	LUMINAIRE LED PEDESTRIAN (70 WATT) TYPE SA	FOUNDATION SPECIAL EACH	LUMINAIRE LED STREET (250 WATT) TYPE SB	PLAN	PLAN	PLAN
E11	SA-49			1	1	1
E11	SA-50			1	1	1
E11	SA-53			1	1	1
E11	SA-54			1	1	1
E11,E17	SA-59			1	1	1
E11	SA-62			1	1	1
E11,E17	SA-68			1	1	1
E11,E17	SA-70			1	1	1
E11,E17	SA-72			1	1	1
E11,E17	SA-77			1	1	1
E11,E17	SA-144			1	1	1
E11,E17	SB-9			1	1	1
E12	SA-84			1	1	1
E12	SA-89			1	1	1
E12	SA-95			1	1	1
E12	SA-100			1	1	1
E12	SA-104			1	1	1
E12,E16	SA-107			1	1	1
E13,E9	SA-88			1	1	1
E13	SA-91			1	1	1
E13	SA-93			1	1	1
E13	SA-97			1	1	1
E13	SA-98			1	1	1
E13	SA-102			1	1	1
E13	SA-103			1	1	1
E13,E15	SA-108			1	1	1
E13,E15	SA-109			1	1	1
E13,E15	SA-113			1	1	1
E13,E9	SB-12			1	1	1
E13,E9	SB-15			1	1	1
E14	SA-92			1	1	1
E14	SA-96			1	1	1
E14	SA-99			1	1	1
E14	SA-101			1	1	1
E14	SA-105			1	1	1
E14	SA-106			1	1	1
E14	SA-110			1	1	1
E14	SA-112			1	1	1
E14	SA-115			1	1	1
E14	SA-117			1	1	1
E14,E15	SA-128			1	1	1
E14	SA-129			1	1	1
E14,E15	SA-141			1	1	1
E14	SA-142			1	1	1
E14	SB-20			1	1	1
TABLE TOTALS				41	45	4

SCHEDULE OF LIGHTING DEVICES NOTES:
1. FOUNDATION TOP HEIGHT EQUAL TO ADJACENT SIDEWALK

Schedule of Lighting Devices						
DESCRIPTION	LUMINAIRE LED PEDESTRIAN (70 WATT) TYPE SA	FOUNDATION SPECIAL EACH	LUMINAIRE LED STREET (250 WATT) TYPE SB	PLAN	PLAN	PLAN
E15	SA-114			1	1	1
E15	SA-118			1	1	1
E15	SA-124			1	1	1
E15	SA-125			1	1	1
E15	SA-126			1	1	1
E15	SA-127			1	1	1
E15	SA-130			1	1	1
E15	SA-136			1	1	1
E15	SA-137			1	1	1
E15	SA-138			1	1	1
E15	SA-139			1	1	1
E15	SA-140			1	1	1
E15	SB-19			1	1	1
E15	SB-22			1	1	1
E16	SA-111			1	1	1
E16	SA-116			1	1	1
E16	SA-119			1	1	1
E16	SA-120			1	1	1
E16	SA-121			1	1	1
E16	SA-122			1	1	1
E16	SA-123			1	1	1
E16	SA-131			1	1	1
E16	SA-132			1	1	1
E16	SA-133			1	1	1
E16	SA-134			1	1	1
E16	SA-143			1	1	1
E16	SB-21			1	1	1
E17	SA-69			1	1	1
E17	SA-74			1	1	1
E17	SA-80			1	1	1
E17	SA-145			1	1	1
E18,E5	SA-155			1	1	1
E18	SA-156			1	1	1
E18	SA-157			1	1	1
E18	SA-158			1	1	1
E18,E19	SA-159			1	1	1
E18,E19	SA-160			1	1	1
E18,E19	SA-161			1	1	1
E19	SA-162			1	1	1
E19	SA-163			1	1	1
E19	SA-164			1	1	1
E19	SA-165			1	1	1
TABLE TOTALS				39	42	3

SCHEDULE OF LIGHTING DEVICES NOTES:
1. FOUNDATION TOP HEIGHT EQUAL TO ADJACENT SIDEWALK

Tabulation of Approximate Quantities					
Item No.	Ref. No.	Construction Note Description	Quantity	Unit	NOTES
		2Inch Electrical Conduit (Plastic)	19884	LF	
		Type One Pull Box	196	EA	
		Wiring	1	LS	
		Light Standard and Luminaire (Pedestrian)	162	EA	
		Light Standard and Luminaire (Street)	15	EA	
		Light Standard Foundation (Special)	177	EA	
		Lighting Control Center (Special)	2	EA	
SUMMARY NOTES:					

STREET LIGHTING GENERAL NOTES:
1. EACH LIGHT TO HAVE A PULL BOX "UB", REFERENCE ELECTRICAL SHEETS.



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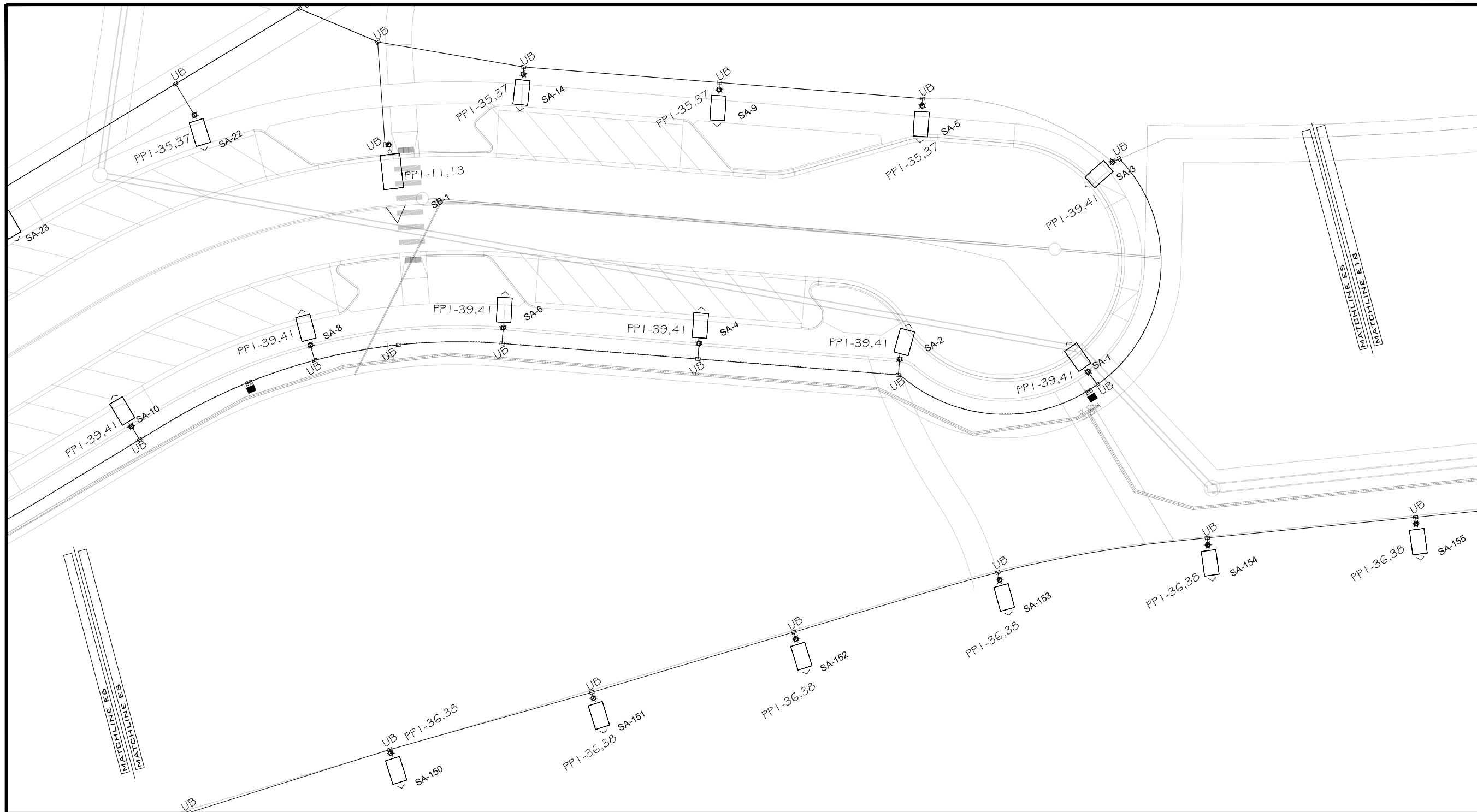
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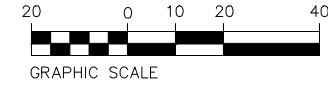
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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
LIGHTING SCHEDULES



LIGHTING/ELECTRICAL PLAN

SCALE: 1"=40'



GENERAL NOTES:

1. POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
2. LIGHT TO BE ORIENTED TO BE PERPENDICULAR TO ROADWAY AND SHINE ON ROADWAY, TYPICAL.
3. PROVIDE 2-#6 THWN + #8GND IN 2" PVC SCHEDULE 80 CONDUIT BETWEEN PULL BOXES UNLESS SHOWN OTHERWISE, TYPICAL.



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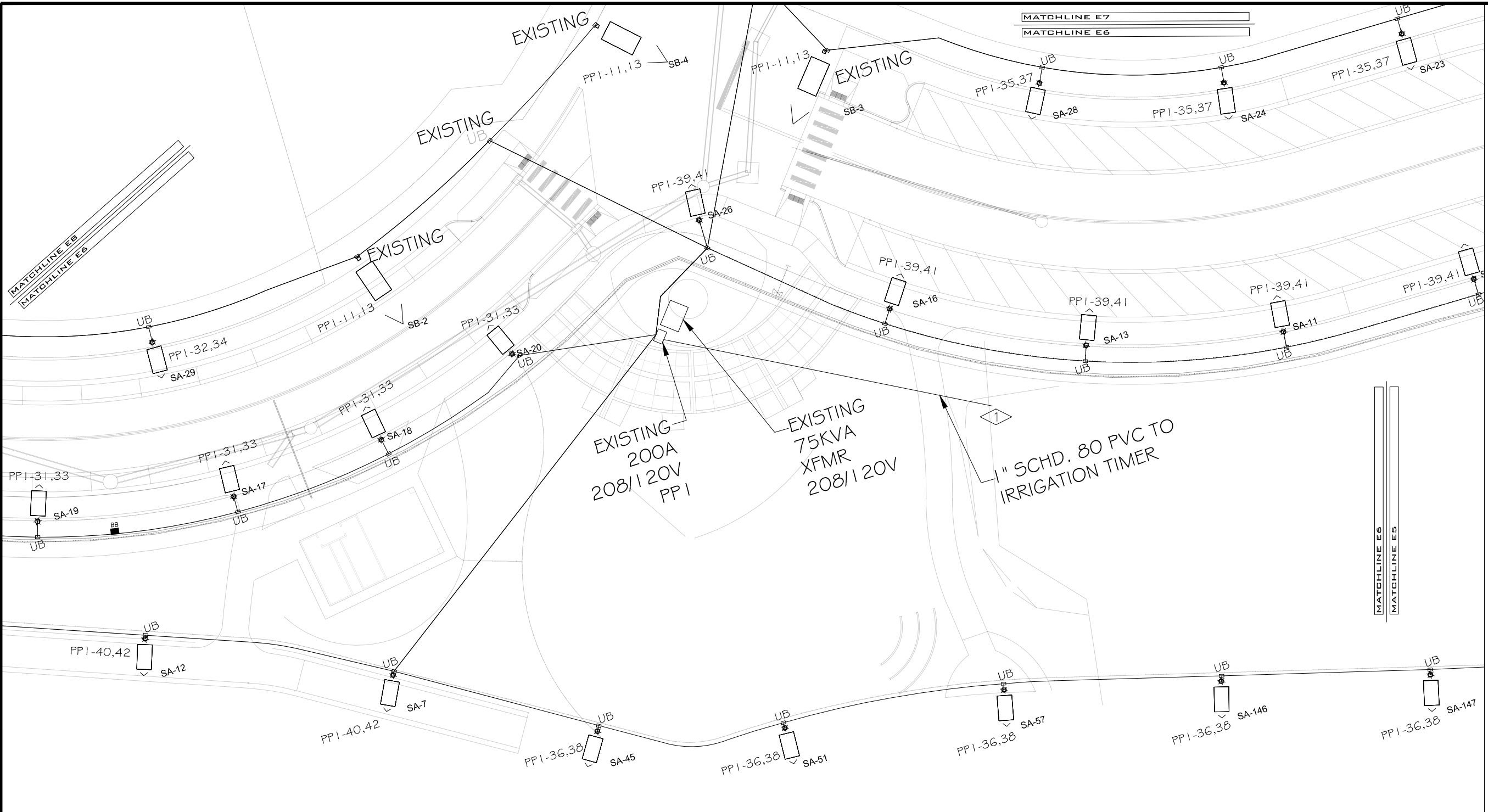
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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
COMPOSITE UTILITY PLAN



LIGHTING/ELECTRICAL PLAN
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- FLAG NOTES:
- ① PROVIDE NEW 20 AMP 120V, 1 PH, 22KAIC BREAKER IN PANEL "PP1" FOR FEED TO IRRIGATION CONTROLLER. PROVIDE (2-#10 THWN + #12GND CU) IN 1" SCHEDULE 80 PVC FROM PANEL "PP1". FIELD VERIFY EXACT LOCATION AND WIRING OF CONTROLLER WITH IRRIGATION PROVIDER PRIOR TO TRENCHING.

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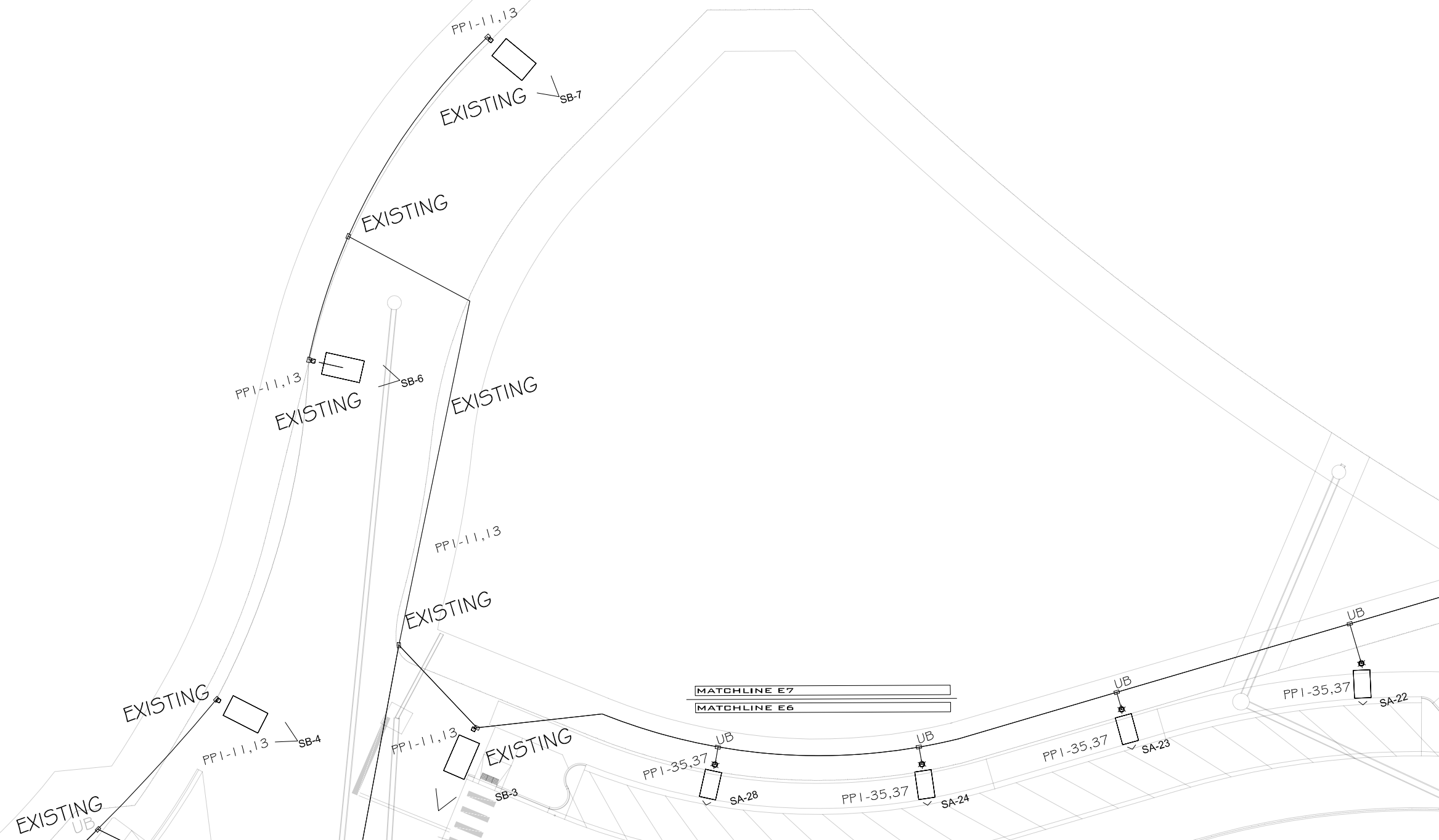
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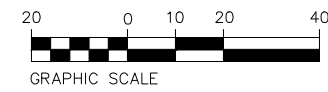


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4. SB-4, SB-6, SB-7 ARE EXISTING AND TO BE REUSED AND WIRED FROM PANEL "PPI" AS SHOWN IN PANEL SCHEDULES.

LIGHTING/ELECTRICAL PLAN

SCALE: 1"=40'



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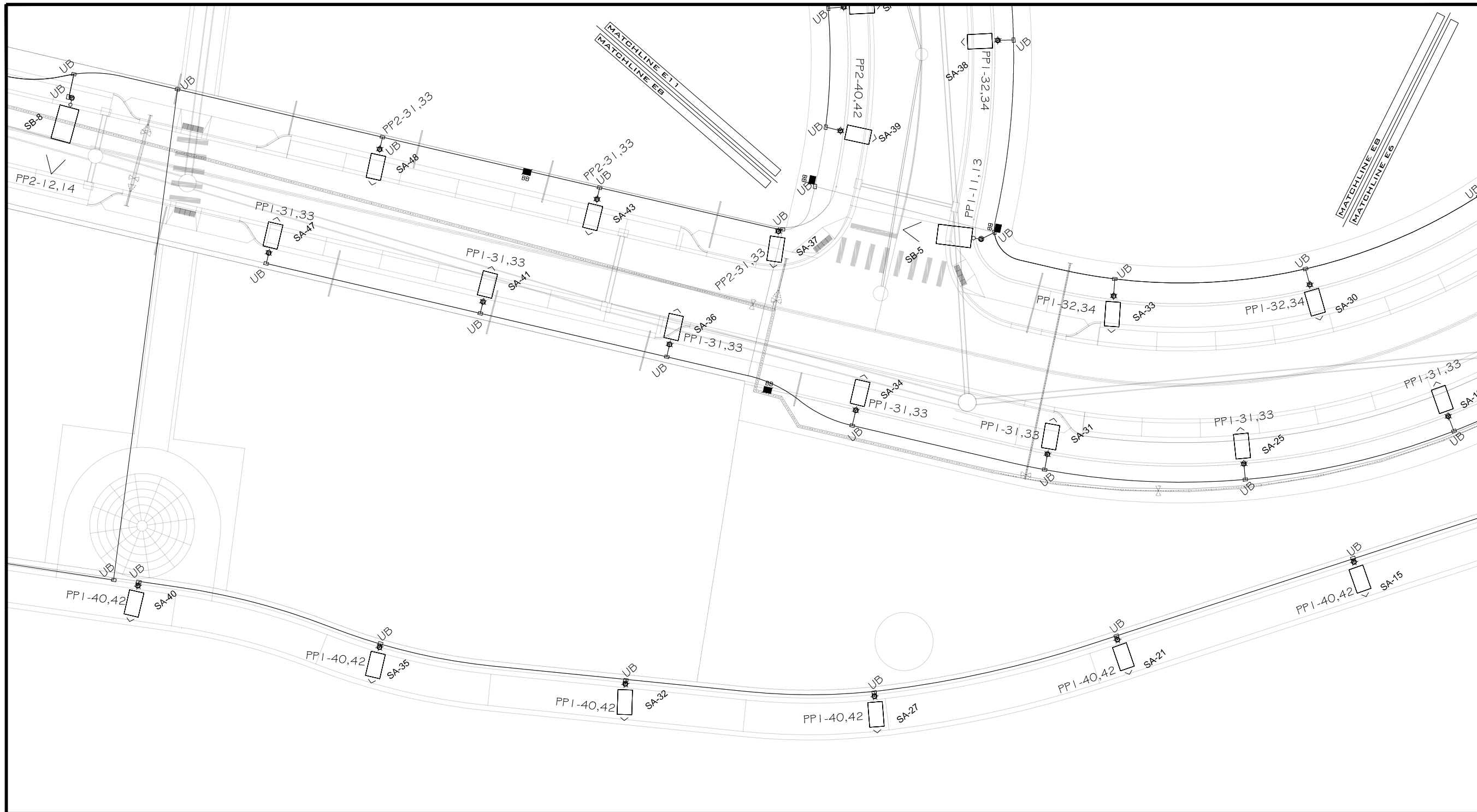
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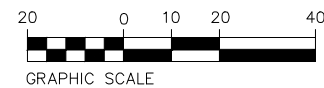


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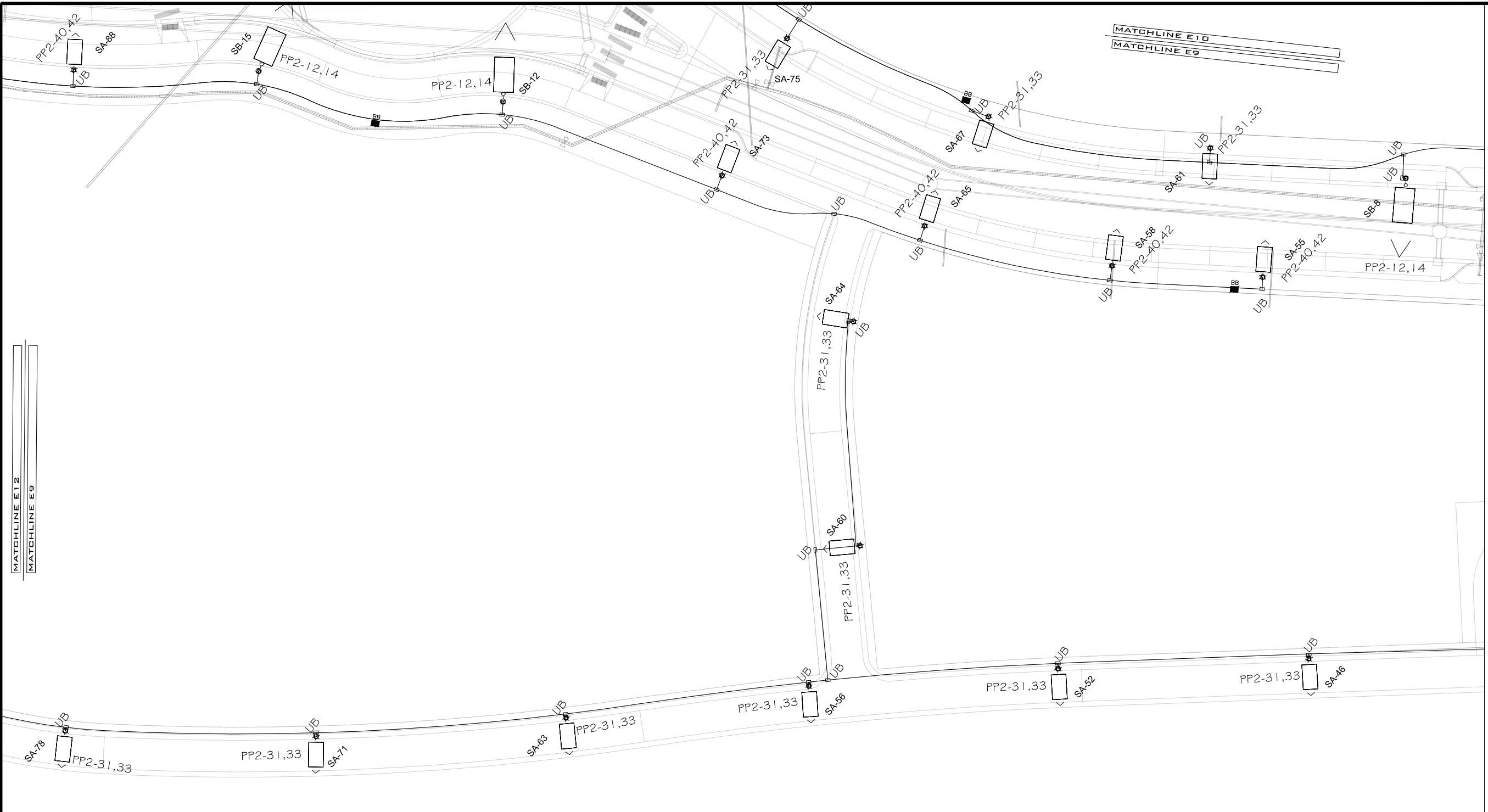
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COMPOSITE UTILITY PLAN



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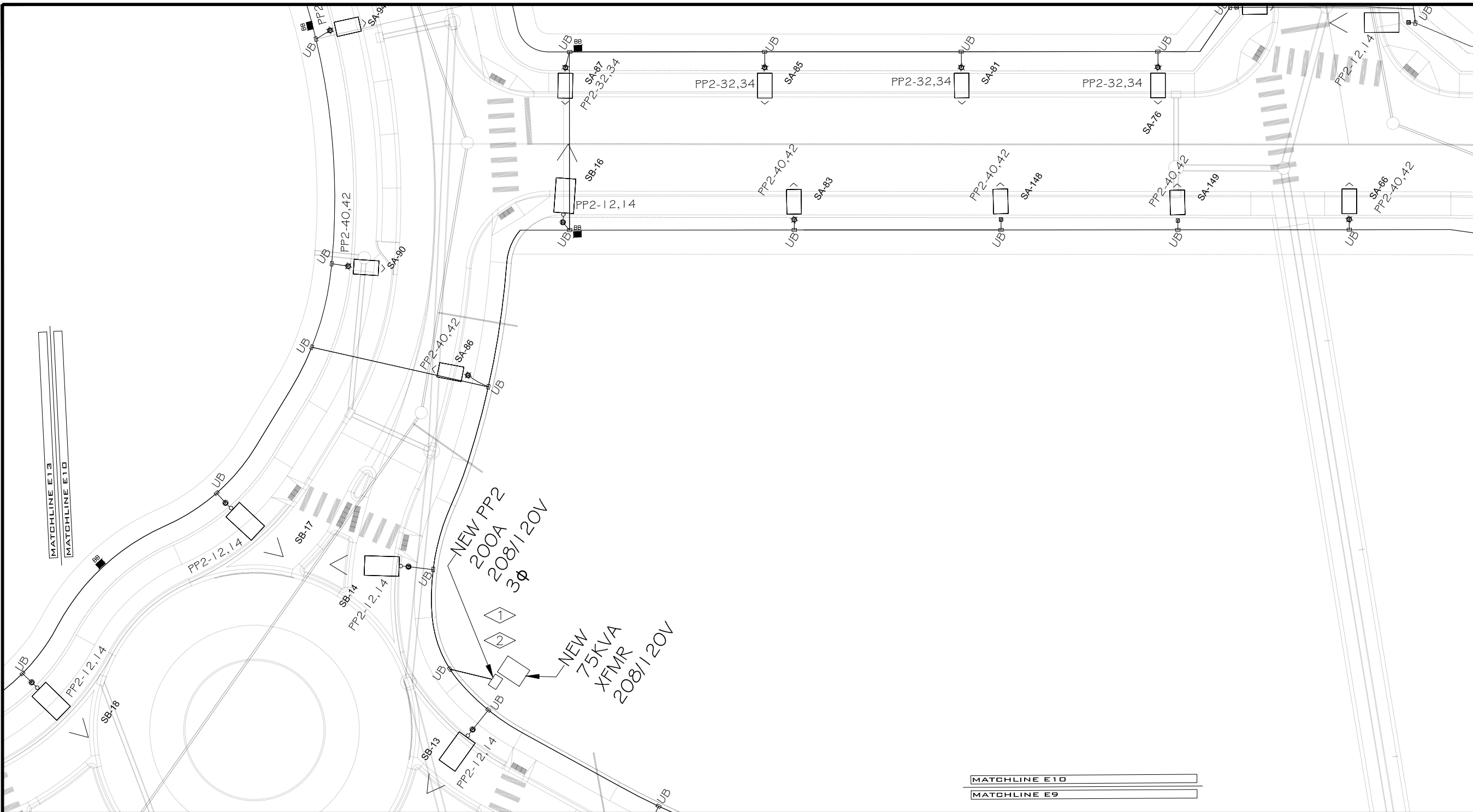
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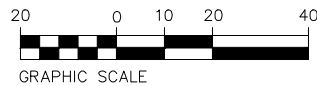
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COMPOSITE UTILITY PLAN



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FLAG NOTES:

- ① COORDINATE INSTALLATION OF NEW PANEL "PP2" AND METER WITH XCEL ENERGY PRIOR TO ANY TRENCHING.
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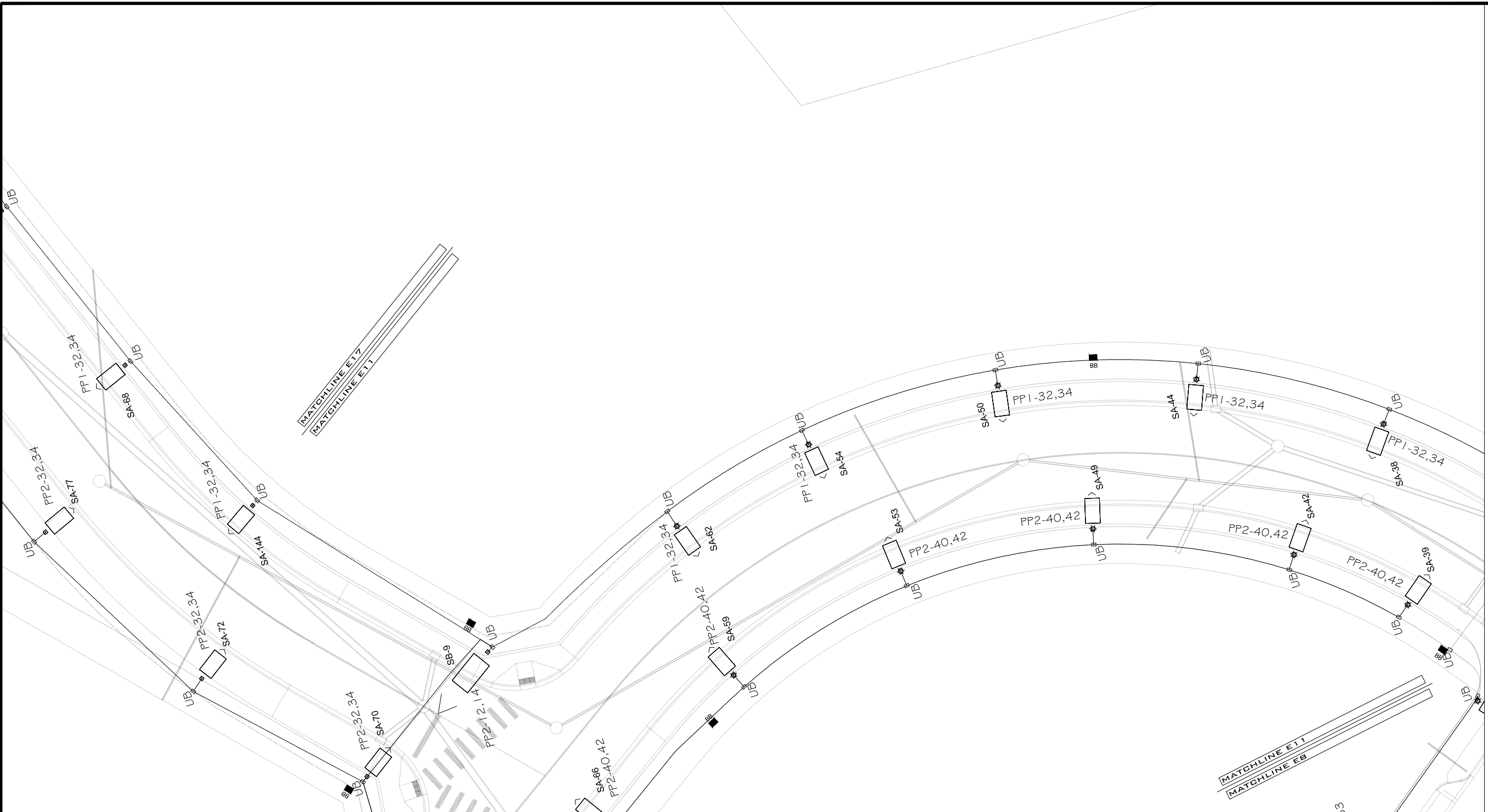
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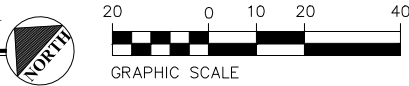
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 COMPOSITE UTILITY PLAN

MATCHLINE E16
 MATCHLINE E12

MATCHLINE E12
 MATCHLINE E9



LIGHTING/ELECTRICAL PLAN
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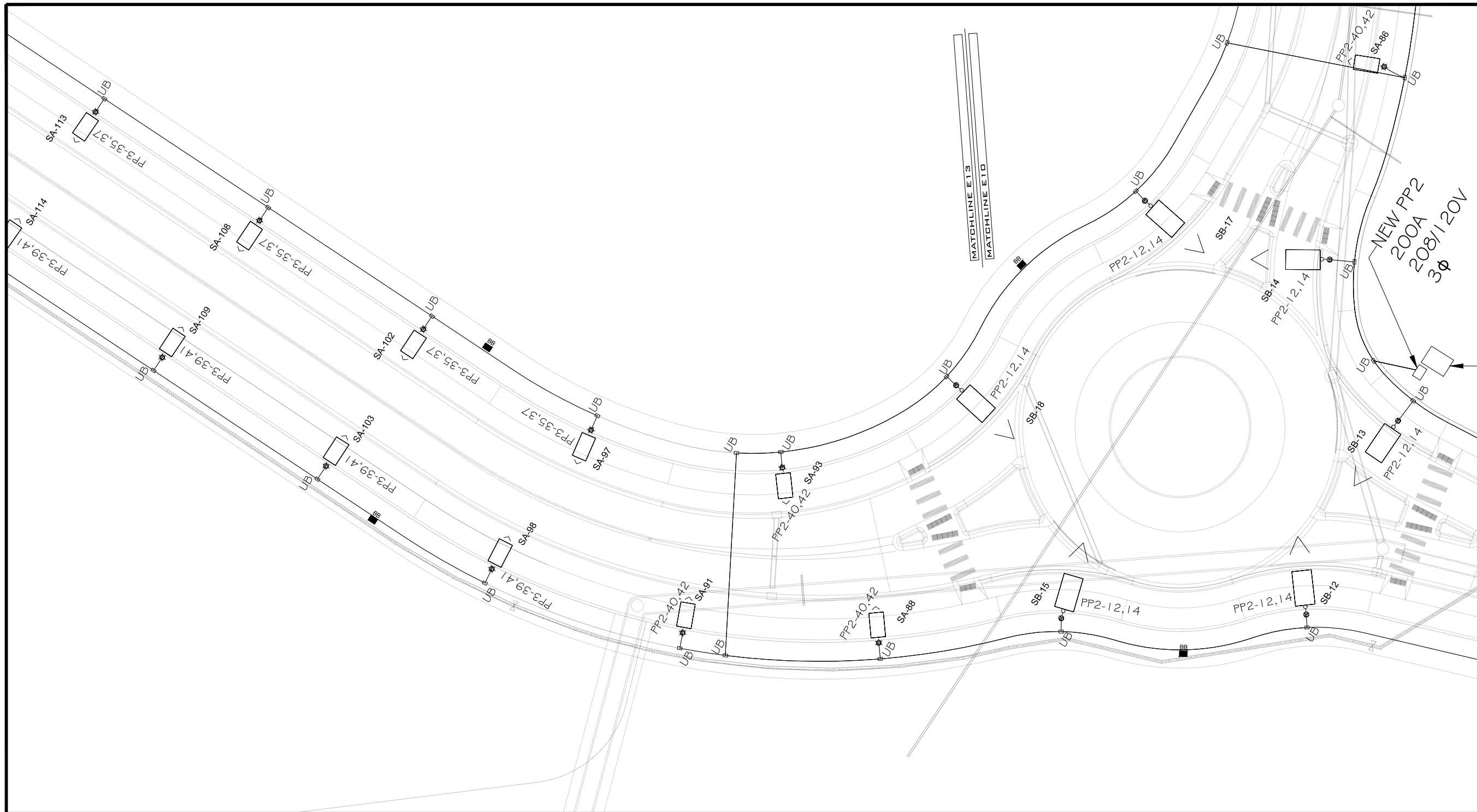
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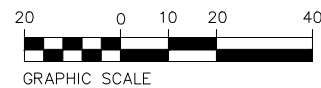
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 COMPOSITE UTILITY PLAN



LIGHTING/ELECTRICAL PLAN

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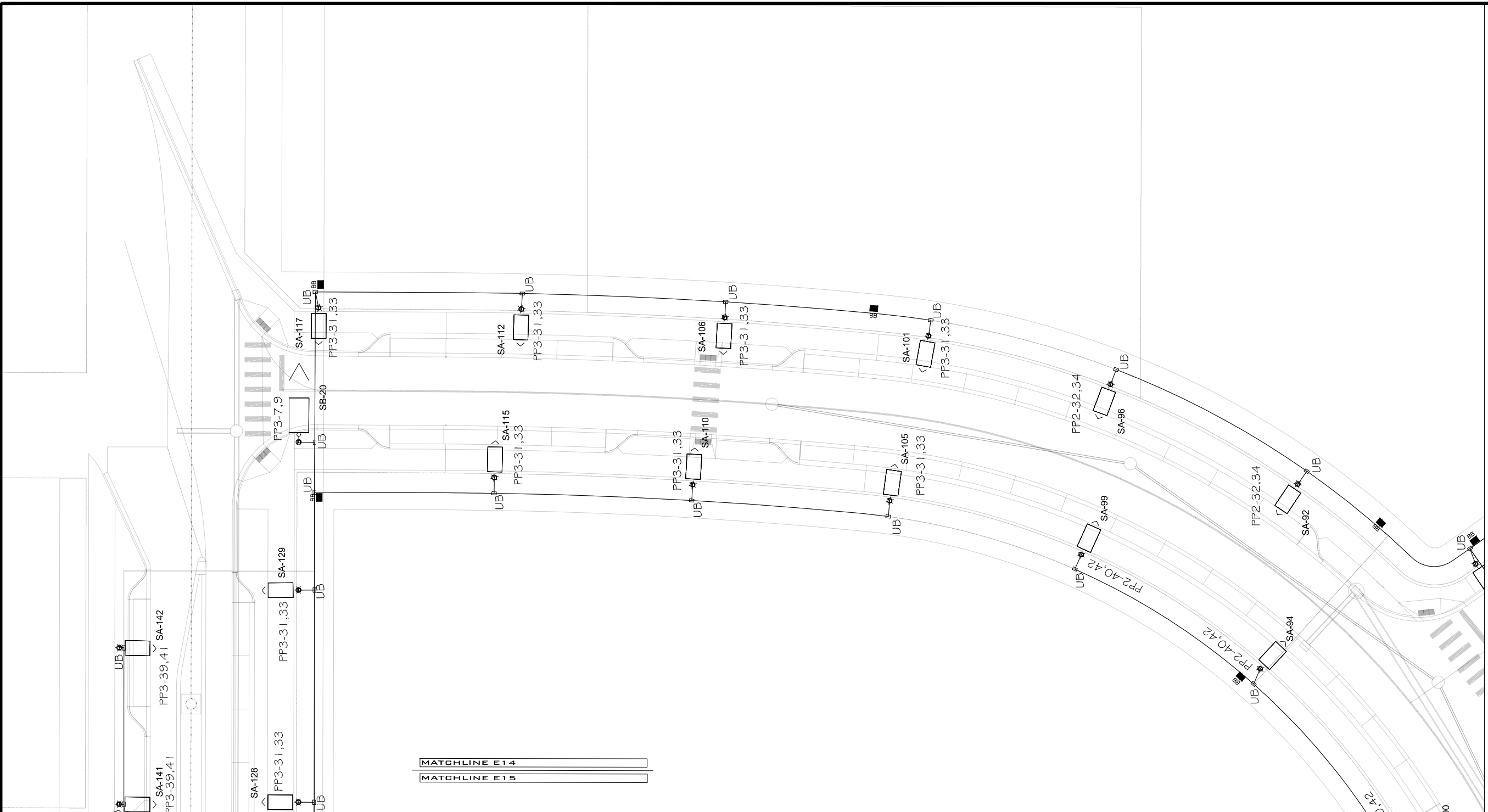
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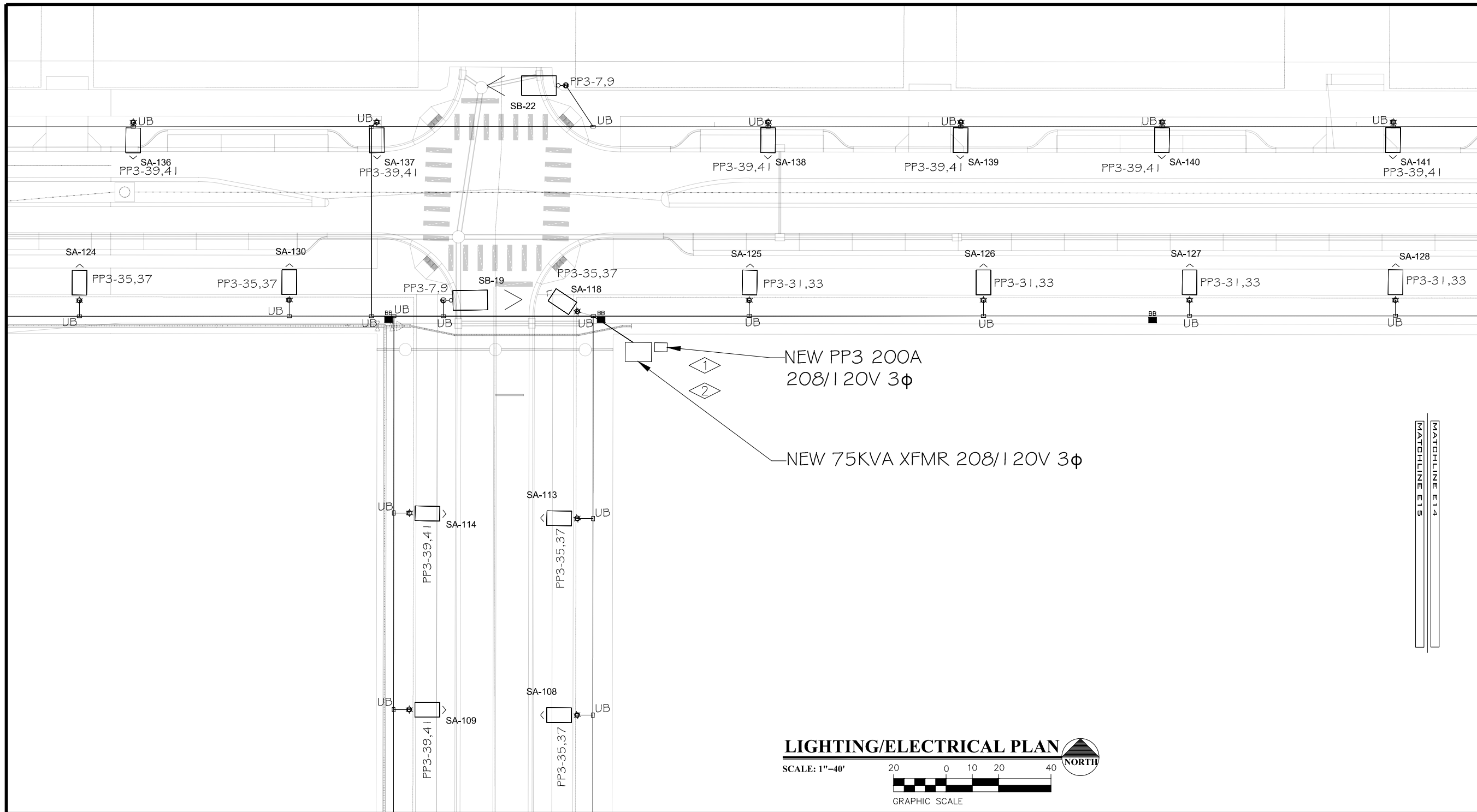
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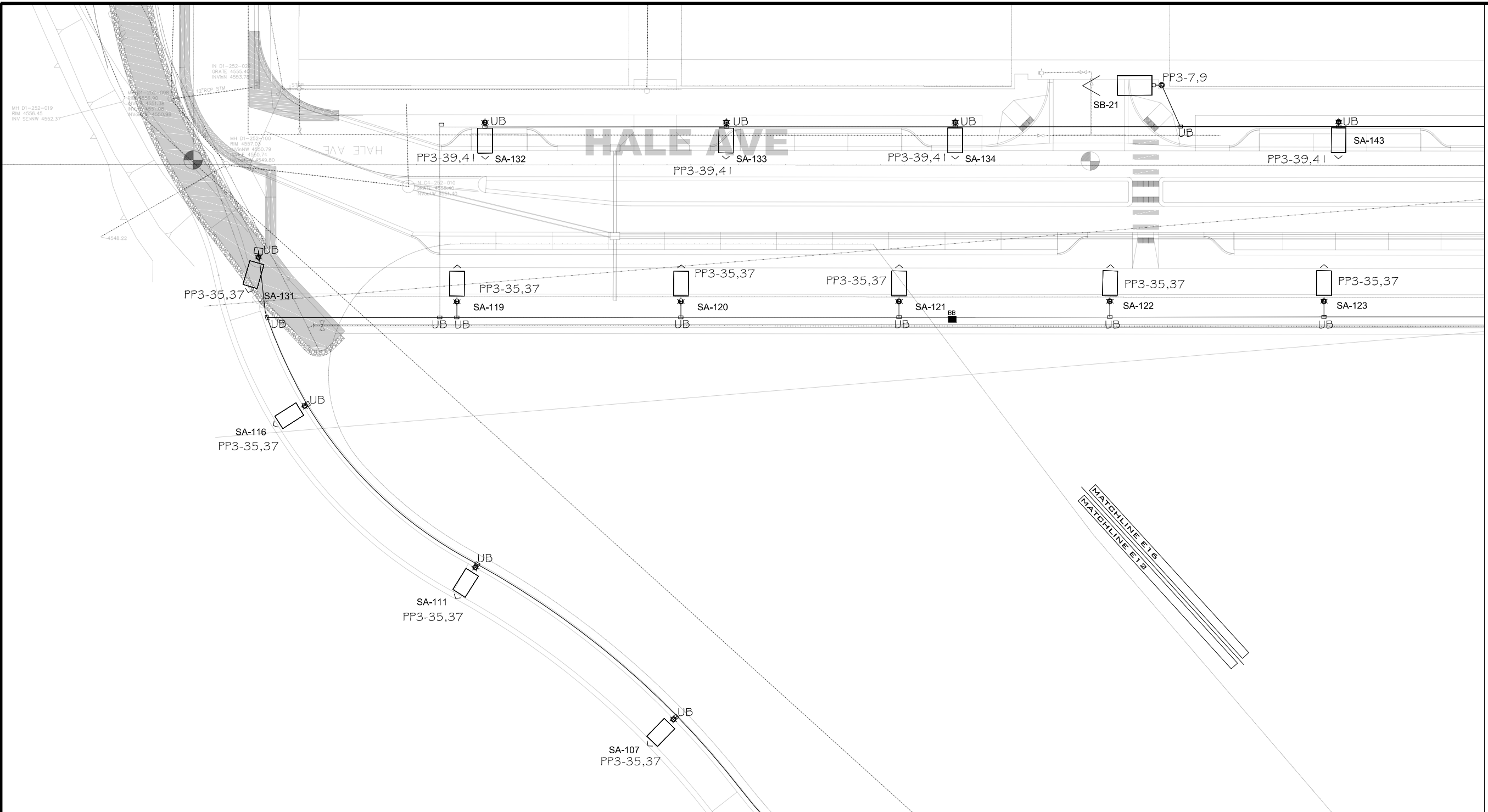
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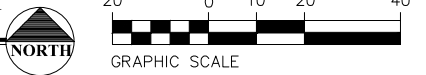


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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
COMPOSITE UTILITY PLAN



LIGHTING/ELECTRICAL PLAN
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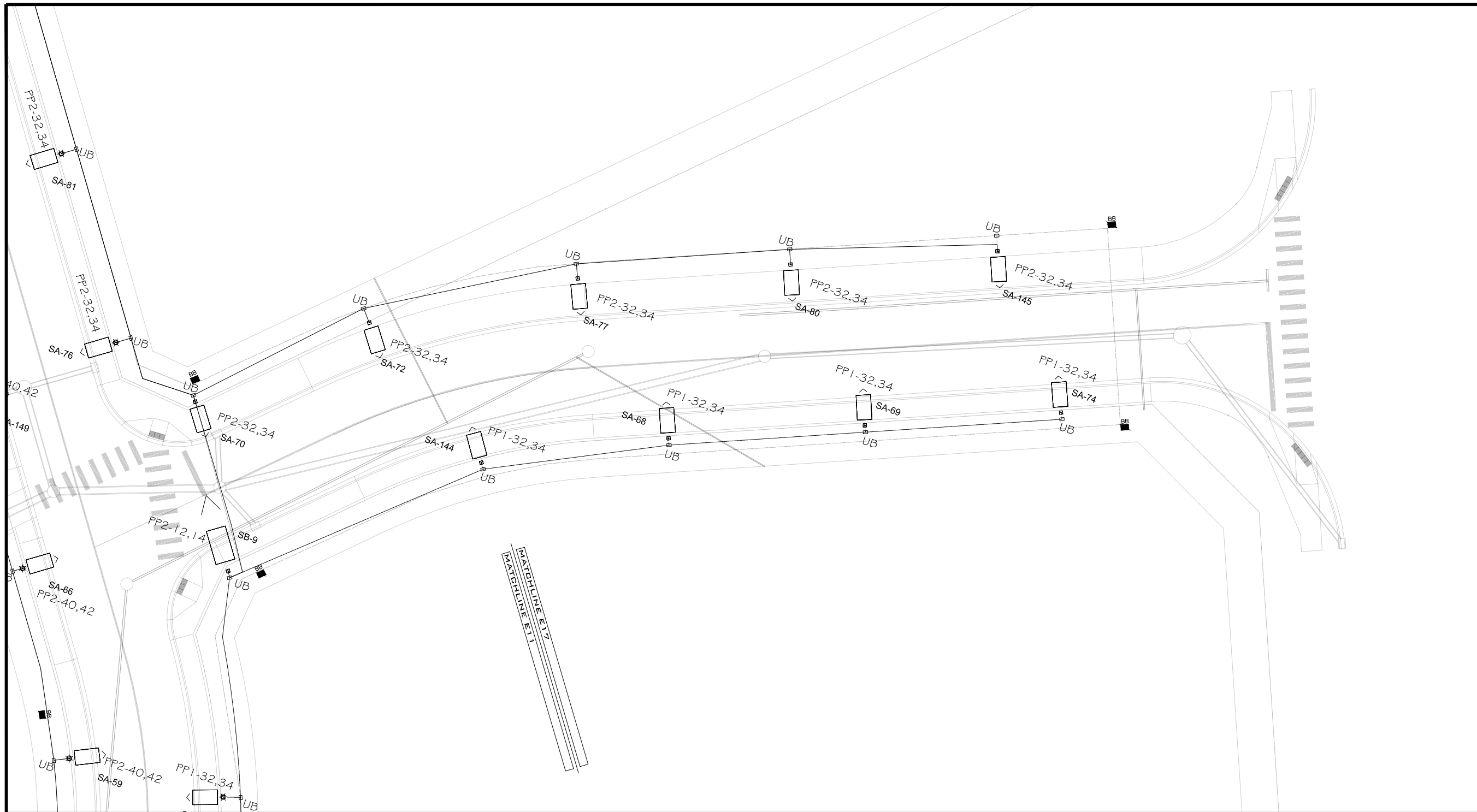
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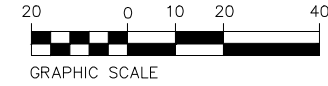


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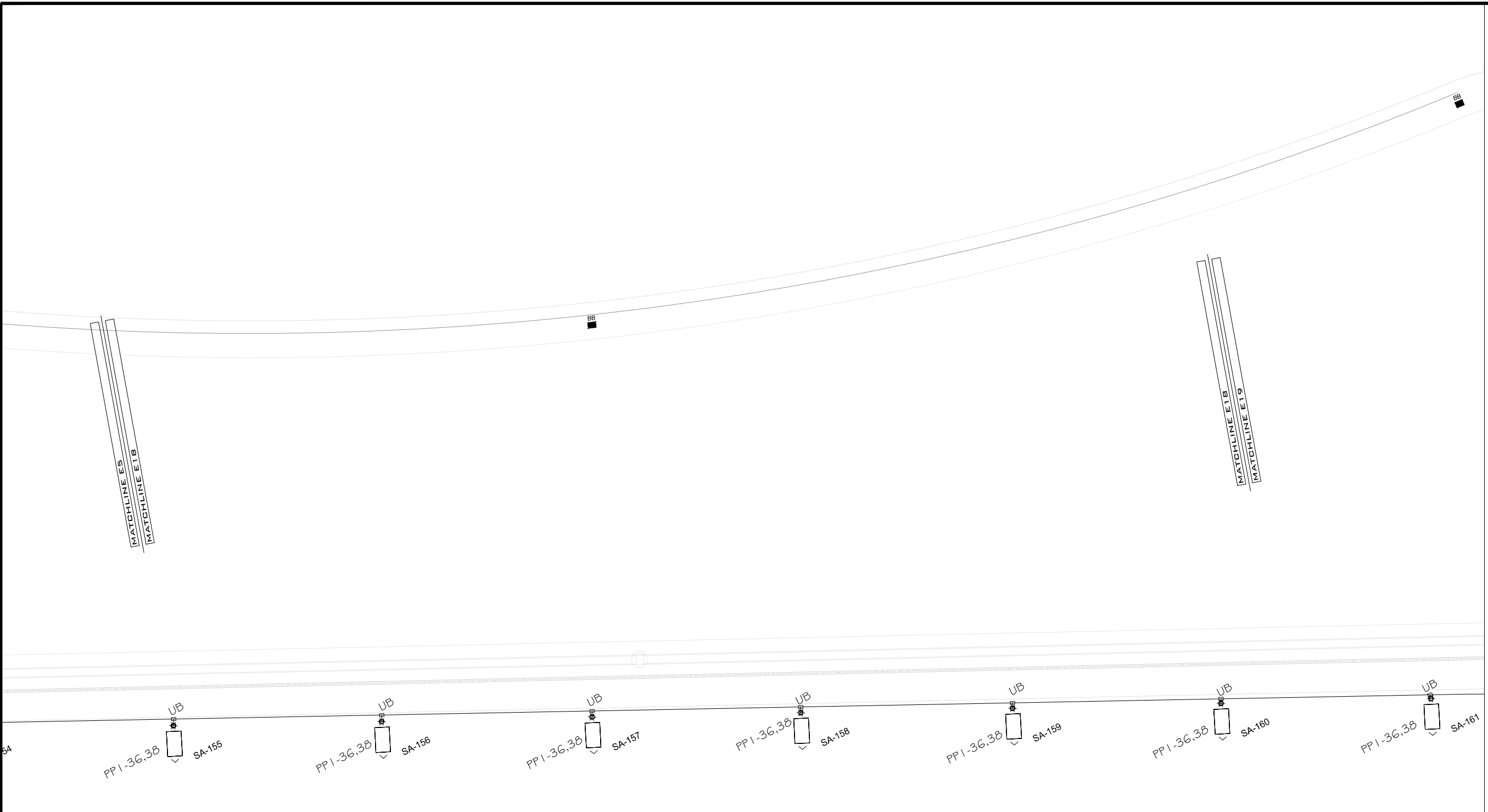
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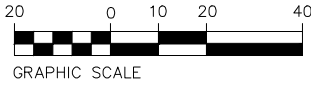
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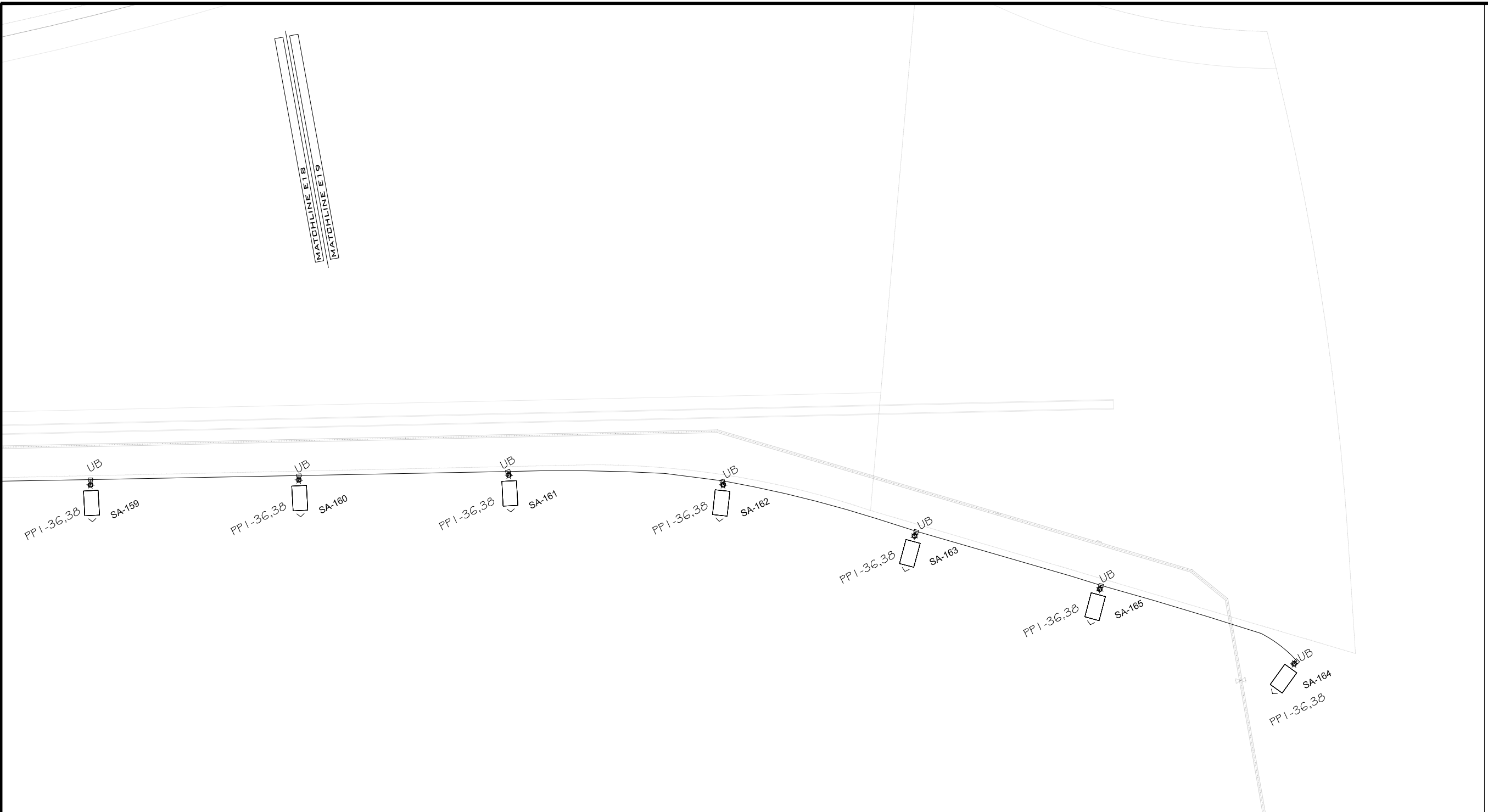
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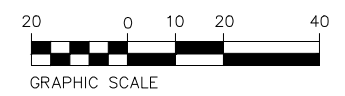
THE RIVERFRONT AT DOS RIOS WAY PHASE 2
COMPOSITE UTILITY PLAN

MATCHLINE E18
MATCHLINE E19



LIGHTING/ELECTRICAL PLAN

SCALE: 1"=40'



GENERAL NOTES:

1. POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
2. LIGHT TO BE ORIENTED TO BE PERPENDICULAR TO ROADWAY AND SHINE ON ROADWAY, TYPICAL.
3. PROVIDE 2-#6 THWN + #8GND IN 2" PVC SCHEDULE 80 CONDUIT BETWEEN PULL BOXES UNLESS SHOWN OTHERWISE, TYPICAL.



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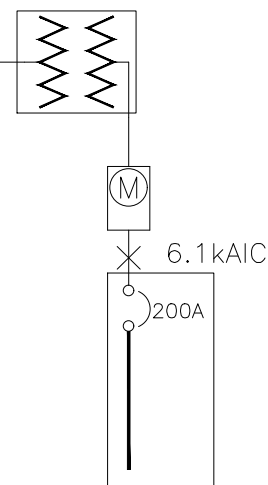
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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
COMPOSITE UTILITY PLAN

EXISTING PAD MOUNTED
TRANSFORMER 75KVA
208/120 VOLT, 3PH 4W
BY XCEL

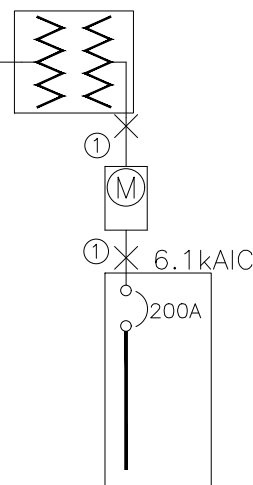


EXISTING PP1 200A MCB MILBANK
PEDESTAL CP3B5251XB22CSSL1, 24
UNSWITCHED/12 SWITCHED CKTS
208/120V 3PH, 4W
22 KAIC

① 1 SET(S)[2.5" PVC
SCHED. 80
(4#3/0(CU,THWN)+1#4(CU)GND)]

ONE-LINE DIAGRAM
A
1 NOT TO SCALE

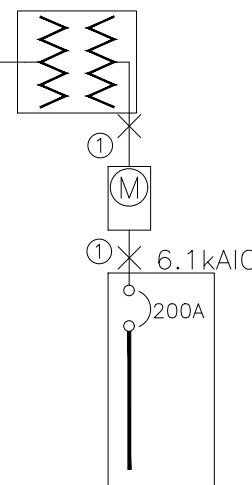
NEW PAD MOUNTED
TRANSFORMER 75KVA
208/120 VOLT, 3PH
BY XCEL



NEW PANEL PP2 100A MCB
MILBANK PEDESTAL
CP3B5151XK42CSXCSL1, 24
UNSWITCHED/12 SWITCHED CKTS
208/120 3PH, 4W
22 KAIC

ONE-LINE DIAGRAM
A
1 NOT TO SCALE

NEW PAD MOUNTED
TRANSFORMER 75KVA
208/120 VOLT, 3PH
BY XCEL



NEW PANEL PP3 100A MCB
MILBANK PEDESTAL
CP3B5151XK42CSXCSL1, 24
UNSWITCHED/12 SWITCHED CKTS
208/120 3PH, 4W
22 KAIC

ONE-LINE DIAGRAM
A
1 NOT TO SCALE

GENERAL NOTES:

1. IN AS MUCH AS DESIGN REQUIRES THAT CERTAIN ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS, AND BECAUSE SOME OF THESE ASSUMPTIONS CANNOT BE VERIFIED. FIELD COORDINATION DURING CONSTRUCTION SERVICES IS IMPERATIVE. CONTRACTORS BIDDING THIS WORK MUST MAKE REASONABLE ALLOWANCES FOR UNFORESEEN CONTINGENCIES.
2. THE SERVING ELECTRICAL ASSOCIATION SHALL ADVISE THE OWNER/ENGINEER PRIOR TO SERVICE MODIFICATION REQUIRING COST TO THE OWNER.
3. REFERENCE CIVIL, LANDSCAPE AND IRRIGATION DRAWING PLANS FOR COORDINATION AND LOCATION OF ALL UNDER GROUND SYSTEMS.
4. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES AS REQUIRED: REFERENCE CIVIL LANDSCAPE AND IRRIGATION DRAWINGS.
5. ALL WIRING IS SHOWN DIAGRAMMATICALLY ON DRAWINGS, FIELD VERIFY ALL CONDITIONS PRIOR TO ROUGH-IN.
6. ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES.
7. ALL WIRE TO BE #6 UNLESS NOTED OTHERWISE.
8. CONDUCTOR COUNT IS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL ENSURE THAT ANY AND ALL DEVICES AND EQUIPMENT ARE CIRCUITED PROPERLY. CONTRACTOR SHALL ENSURE THAT NO EQUIPMENT OR DEVICES ARE COMBINED OTHER THAN WHAT IS DEPICTED.
9. FIELD VERIFY ALL DIMENSIONS, DO NOT SCALE DRAWINGS.
10. COORDINATE INSTALLATION OF METER AND ELECTRICAL REQUIREMENTS WITH XCEL ENERGY.
11. PEDESTAL MUST MEET ALL XCEL ENERGY REQUIREMENTS I.E. COLD SEQUENCE PADLOCK SLIP LATCH ON METER COVER, HOLD OPEN BAR ON METER HOOD.



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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
ONE-LINE DIAGRAMS

PANEL: PP1		DC DEVICE TYPE: Breaker		ENCLOSURE: NEMA 3R		MAINS(A): BKR		CONTINUOUS(A): 200	
LOCATION: BUS-0002		DEVICE FAMILY: Bolt On		MOUNTING: Free Standing		WIRING: 3-Phase 4-Wire		BUS SC RATING(A): 22000	
INCIDENT ENERGY: 0.10 Cal/cm2 @18.00(in)				VOLTAGE: 208/120				FAULT CURRENT(A): 6149	
				BOUNDARY: 3.82(in)					

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE A	LOADS B	VA C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
20 2		SPARE	SPARE	0	1	0			2	0	GENERAL	CONTROL PWR		15 1
" "		" "	" "	0	3		150		4	150	GENERAL	SWITCHED LC CNTRL		20 2
" "		" "	" "	0	5			150	6	150	" "	" "		" "
" "		" "	" "	0	7	0			8	0	SPARE	SPARE		20 1
20 2		STREET LIGHTS N.	NONE	805	9		600	805	10	600	GENERAL	IRRIGATION CONTROL		20 1
" "		" "	" "	805	11	805			12					" "
" "		" "	" "		13				14					" "
" "		" "	" "		15				16					" "
" "		" "	" "		17				18					" "
" "		" "	" "		19				20					" "
" "		" "	" "		21				22					" "
" "		" "	" "		23				24					" "
" "		" "	" "		25				26					" "
" "		" "	" "		27				28					" "
" "		" "	" "		29				30					" "
20 2		PED . LTS NW	NONE	350	31	770			32	420	NONE	PED . LTS N. W.		20 2
" "		" "	" "	350	33		770		34	420	" "	" "		" "
20 2		PED. LTS NW	NONE	245	35			980	36	735	NONE	PED . LTS S. E.		20 2
" "		" "	" "	245	37	980			38	735	" "	" "		" "
20 2	2	PED . LTS SE	NONE	385	39		665		40	280	NONE	PED . LTS NE		20 2
" "		" "	" "	385	41		665	665	42	280	" "	" "		" "

ALL CONNECTED	KVA	3P AVE	AMPS	* PHASE	TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	7.33		20.3	* A-N		2555.2	21.3	CONNECTED	8.53
TOTAL DEMAND	7.33		20.3	* B-N		2176.3	18.1	DEMAND	8.53
TOTAL DESIGN	7.33		20.3	* C-N		2597.4	21.6	DESIGN	8.53

- FLAG NOTES:
- 1 PANEL "PP1" CKTS 12 AND 14 ARE EXISTING AND WERE INSTALLED IN PHASE 1 AND TO BE REUSED AND WIRED AS SHOWN. PROVIDE ADDITIONAL BREAKERS IN EXISTING PANEL FOR NEW LIGHTING.
 - 2 CIRCUITS 31 TO 42 ARE SWITCHED CIRCUITS, TYPICAL
 - 3 PANEL "PP2" IS A NEW PANEL, COORDINATE INSTALLATION OF METER AND EXACT LOCATION OF TRANSFORMER WITH EXCEL PRIOR TO ROUGH-IN.

PANEL: PP2		DC DEVICE TYPE: Breaker		ENCLOSURE: NEMA 3R		MAINS(A): BKR		CONTINUOUS(A): 200	
LOCATION: BUS-0008		DEVICE FAMILY: Bolt On		MOUNTING: Free Standing		WIRING: 3-Phase 4-Wire		BUS SC RATING(A): 22000	
INCIDENT ENERGY: 0.10 Cal/cm2 @18.00(in)				VOLTAGE: 208/120				FAULT CURRENT(A): 6149	
				BOUNDARY: 3.82(in)					

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE A	LOADS B	VA C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
20 2		SPARE	SPARE	0	1	22			2	22	GENERAL	CONTROL PWR		15 1
" "		" "	" "	0	3		150		4	150	GENERAL	SWITCHED LC CNTRL		60 2
" "		" "	" "	0	5			150	6	150	" "	" "		" "
" "		" "	" "	0	7	0			8	0	SPARE	SPARE		20 1
20 2		SPARE	SPARE	0	9		0		10	0	SPARE	SPARE		20 1
" "		" "	" "	0	11	1035		1035	12	1035	NONE	ST LIGHTS CENT N&S		20 2
" "		" "	" "	0	13				14	1035	" "	" "		" "
" "		" "	" "		15				16					" "
" "		" "	" "		17				18					" "
" "		" "	" "		19				20					" "
" "		" "	" "		21				22					" "
" "		" "	" "		23				24					" "
" "		" "	" "		25				26					" "
" "		" "	" "		27				28					" "
" "		" "	" "		29				30					" "
20 2		PED LTS NW-SE	NONE	560	31	1015			32	455	NONE	PED. LTS CNT NE-SE		20 2
" "		" "	" "	560	33		1015		34	455	" "	" "		" "
20 2		SPARE	SPARE	0	35			0	36					" "
" "	2	" "	" "	0	37	0			38					" "
" "		" "	" "	0	39		700		40	700	NONE	PED LTS CNTR N, S		20 2
" "		" "	" "	0	41		700	700	42	700	" "	" "		" "

ALL CONNECTED	KVA	3P AVE	AMPS	* PHASE	TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	5.82		16.1	* A-N		2071.2	17.2	CONNECTED	5.82
TOTAL DEMAND	5.82		16.1	* B-N		1862.5	15.5	DEMAND	5.82
TOTAL DESIGN	5.82		16.1	* C-N		1882.4	15.7	DESIGN	5.82



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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
PANEL SCHEDULES

PANEL: PP3 DC DEVICE TYPE: Breaker ENCLOSURE: NEMA 3R MAINS(A): BKR CONTINUOUS(A): 100
 LOCATION: 2 DEVICE FAMILY: Bolt On MOUNTING: Free Standing WIRING: 3-Phase 4-Wire BUS SC RATING(A): 22000
 FED FROM: BUS-0006 VOLTAGE: 208/120 BOUNDARY: 3.82(in) FAULT CURRENT(A): 6149
 INCIDENT ENERGY: 0.10 Cal/cm2 @18.00(in)

FLAG NOTES:

- 1 CIRCUITS 31 TO 42 ARE SWITCHED CIRCUITS, TYPICAL.
- 2 PANEL "PP3" IS A NEW PANEL, COORDINATE INSTALLATION OF METER AND EXACT LOCATION OF TRANSFORMER WITH EXCEL PRIOR TO ROUGH-IN.

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE A	LOADS B	VA C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
20 2		SPARE	GENERAL	0	1	180			2	180	GENERAL	CONTROL PWR		15 1
" "		" "		0	3		150		4	150	GENERAL	SWITCHED LC CNTRL		60 2
" "		" "			5			150	6	150	" "	" "		" "
20 2		STREET LTS HALE	NONE	460	7	460			8	0	GENERAL	SPARE		20 1
" "		" "		460	9		460		10	0	GENERAL	SPARE		20 1
" "		" "			11				12					
" "		" "			13				14					
" "		" "			15				16					
" "		" "			17				18					
" "		" "			19				20					
" "		" "			21				22					
" "		" "			23				24					
" "		" "			25				26					
" "		" "			27				28					
" "		" "			29				30					
20 2		PED LTS E	NONE	420	31	420			32	0	GENERAL	SPARE		20 2
" "		" "		420	33		420		34	0	" "	" "		" "
20 2	1	PED LTS N-S	NONE	665	35			665	36				1	
" "		" "		665	37	665			38					
20 2		PED LTS N.	NONE	525	39		525		40					
" "		" "		525	41			525	42					
ALL CONNECTED		KVA	3P AVE	AMPS	* PHASE TOTALS		VA		AMPS	BUS TOTALS		KVA		
TOTAL CONNECTED		4.61		12.8	* A-N		1722.0		14.3	CONNECTED		4.61		
TOTAL DEMAND		4.61		12.8	* B-N		1552.5		12.9	DEMAND		4.61		
TOTAL DESIGN		4.61		12.8	* C-N		1337.5		11.1	DESIGN		4.61		



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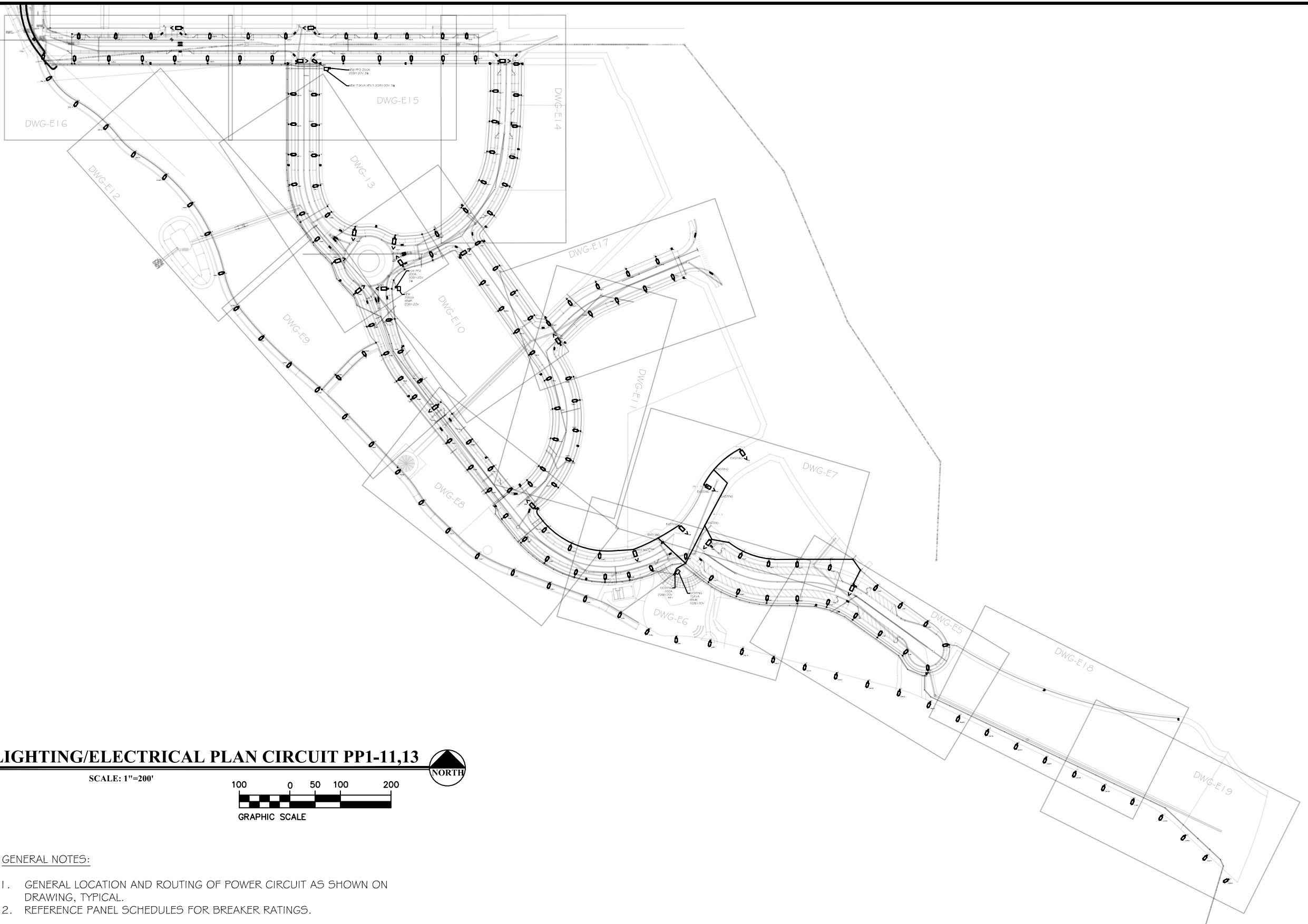
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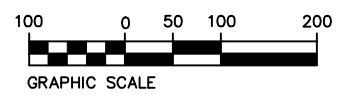
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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
PANEL SCHEDULES



LIGHTING/ELECTRICAL PLAN CIRCUIT PP1-11,13

SCALE: 1"=200'



GENERAL NOTES:

1. GENERAL LOCATION AND ROUTING OF POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
2. REFERENCE PANEL SCHEDULES FOR BREAKER RATINGS.



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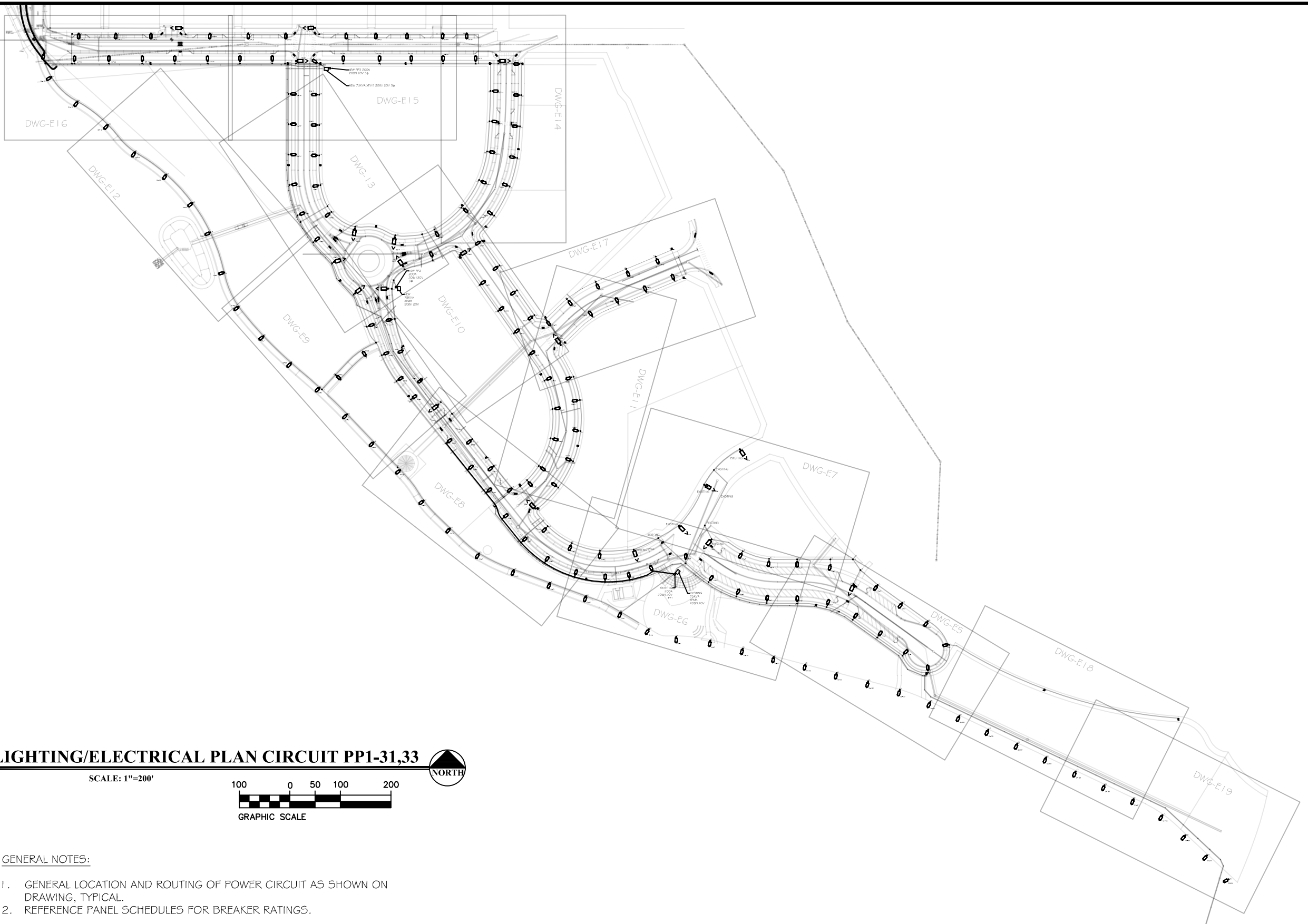
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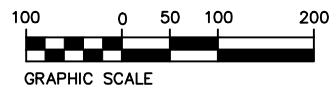
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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
 COMPOSITE UTILITY PLAN



LIGHTING/ELECTRICAL PLAN CIRCUIT PP1-31,33

SCALE: 1"=200'



GENERAL NOTES:

1. GENERAL LOCATION AND ROUTING OF POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
2. REFERENCE PANEL SCHEDULES FOR BREAKER RATINGS.



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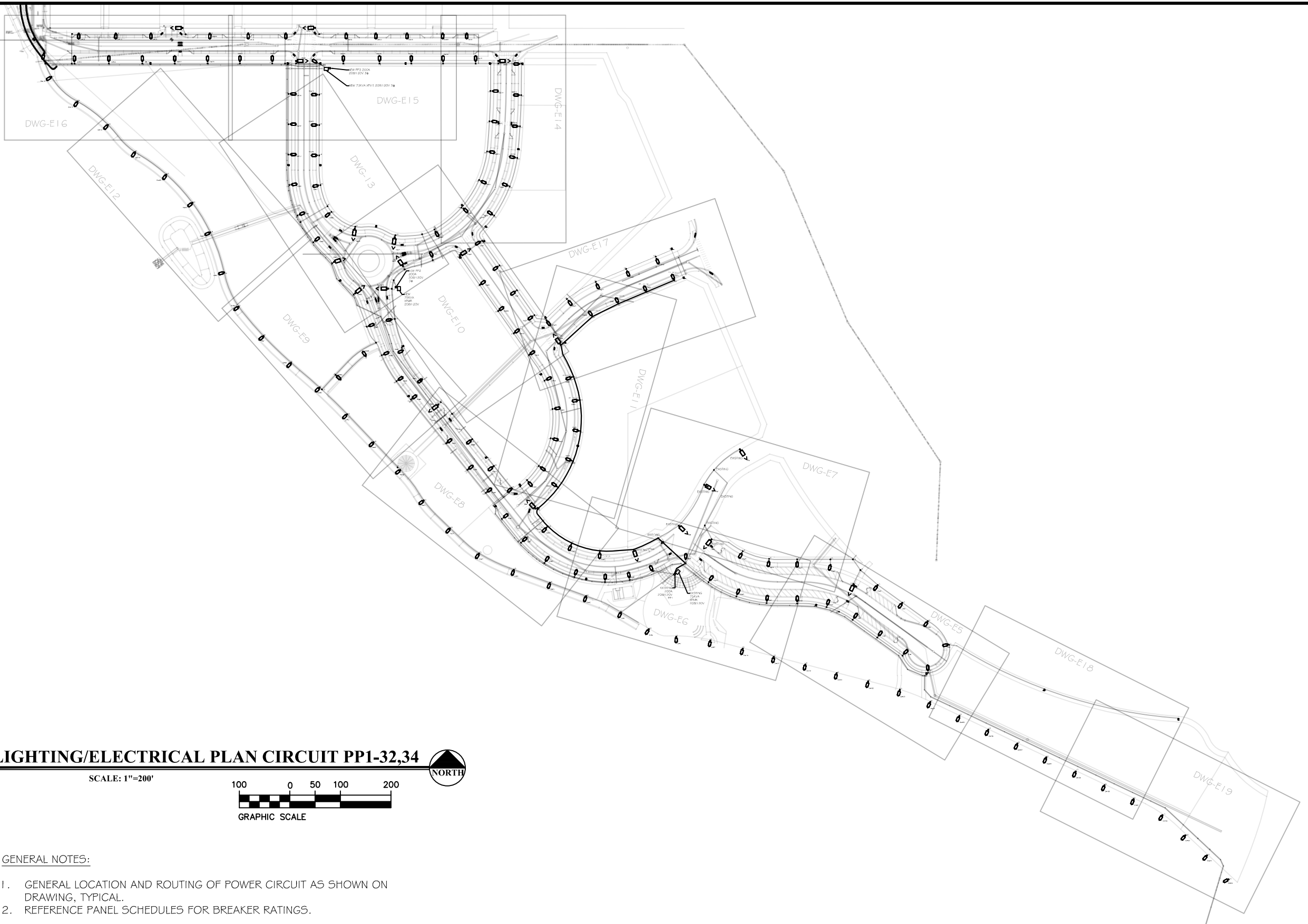
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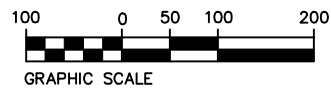
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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
 COMPOSITE UTILITY PLAN



LIGHTING/ELECTRICAL PLAN CIRCUIT PP1-32,34

SCALE: 1"=200'



GENERAL NOTES:

1. GENERAL LOCATION AND ROUTING OF POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
2. REFERENCE PANEL SCHEDULES FOR BREAKER RATINGS.



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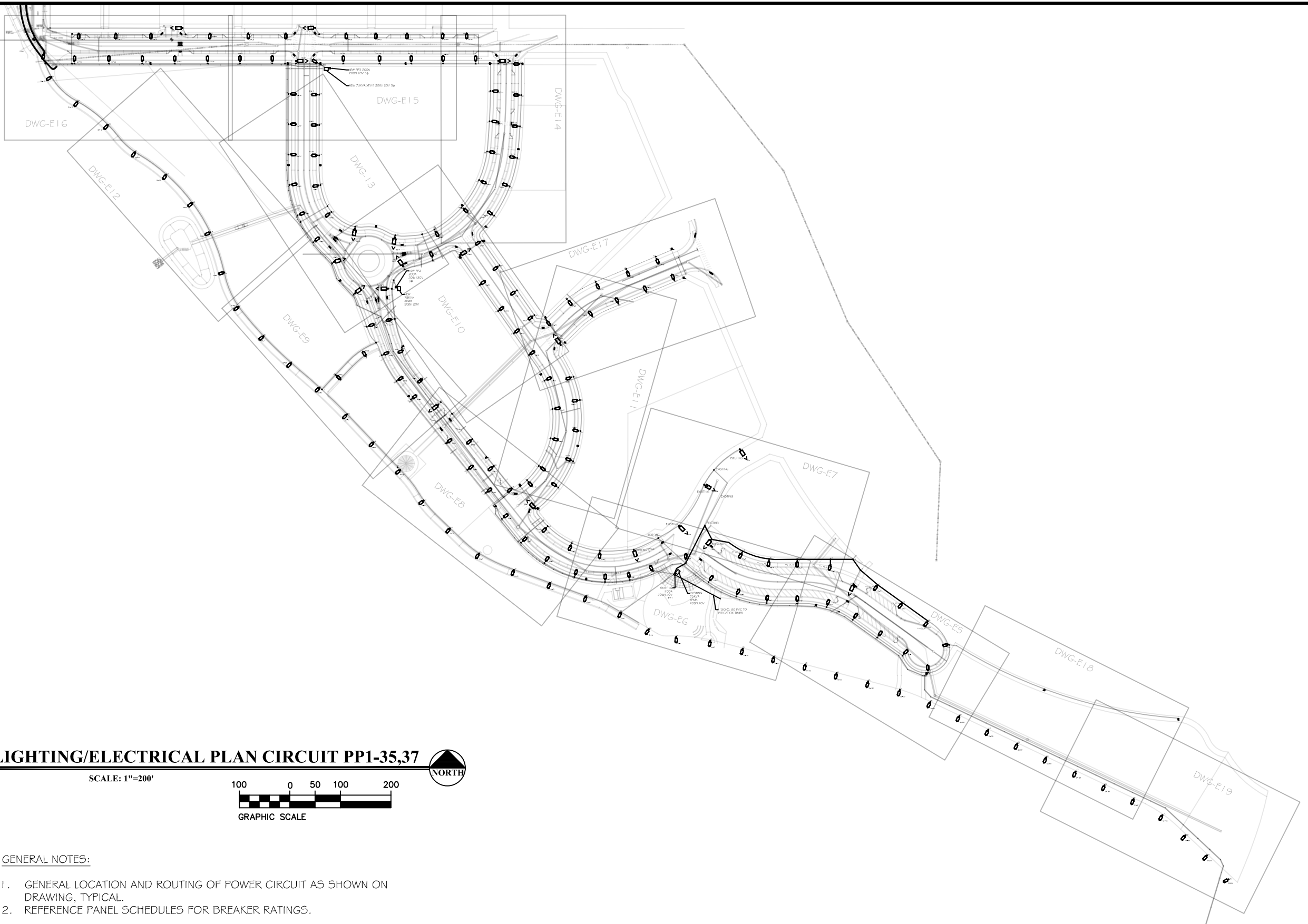
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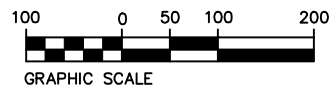
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 COMPOSITE UTILITY PLAN



LIGHTING/ELECTRICAL PLAN CIRCUIT PP1-35,37

SCALE: 1"=200'



GENERAL NOTES:

1. GENERAL LOCATION AND ROUTING OF POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
2. REFERENCE PANEL SCHEDULES FOR BREAKER RATINGS.



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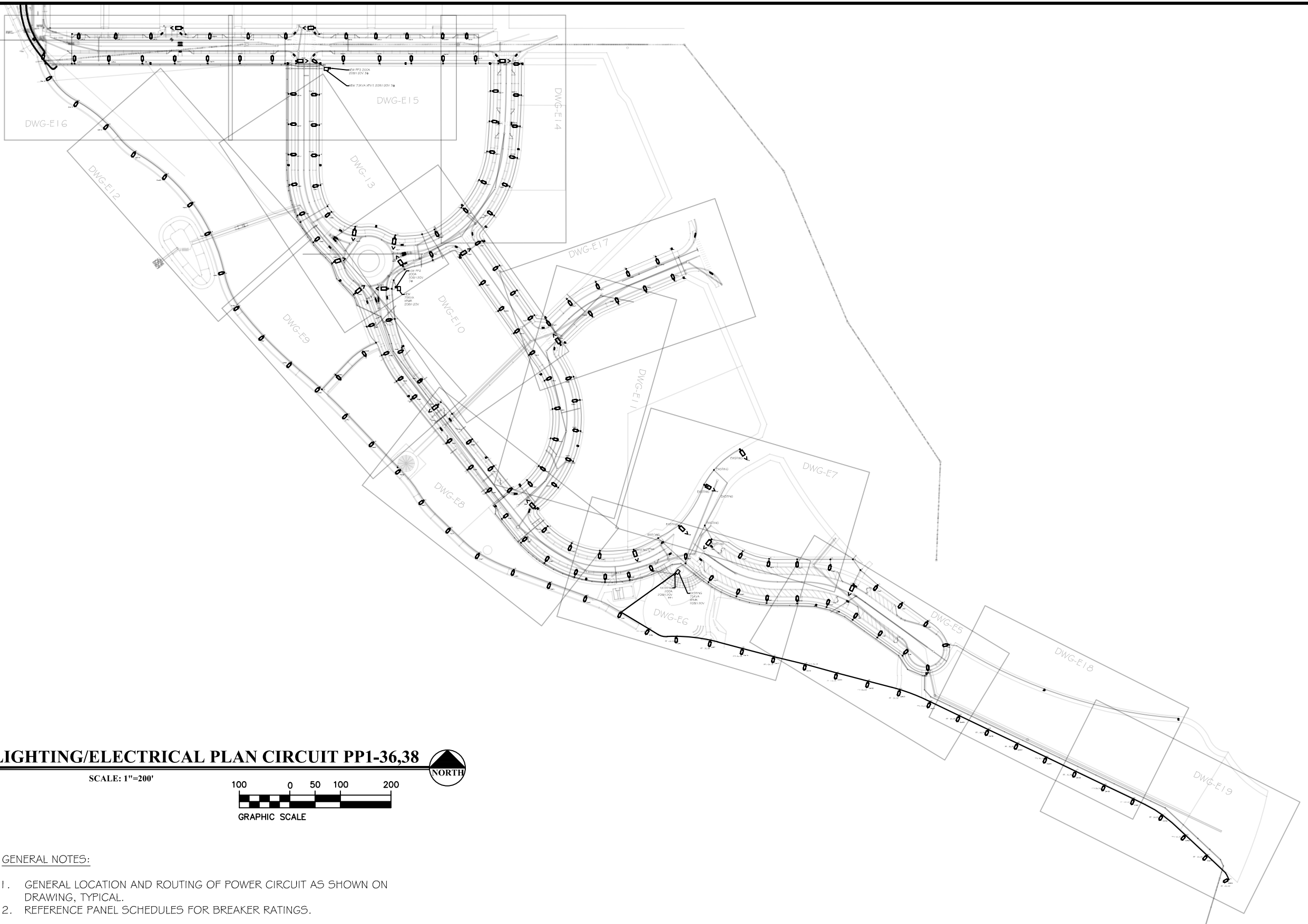
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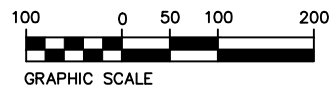
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**THE RIVERFRONT AT DOS RIOS WAY PHASE 2
 COMPOSITE UTILITY PLAN**



LIGHTING/ELECTRICAL PLAN CIRCUIT PP1-36,38

SCALE: 1"=200'



GENERAL NOTES:

1. GENERAL LOCATION AND ROUTING OF POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
2. REFERENCE PANEL SCHEDULES FOR BREAKER RATINGS.



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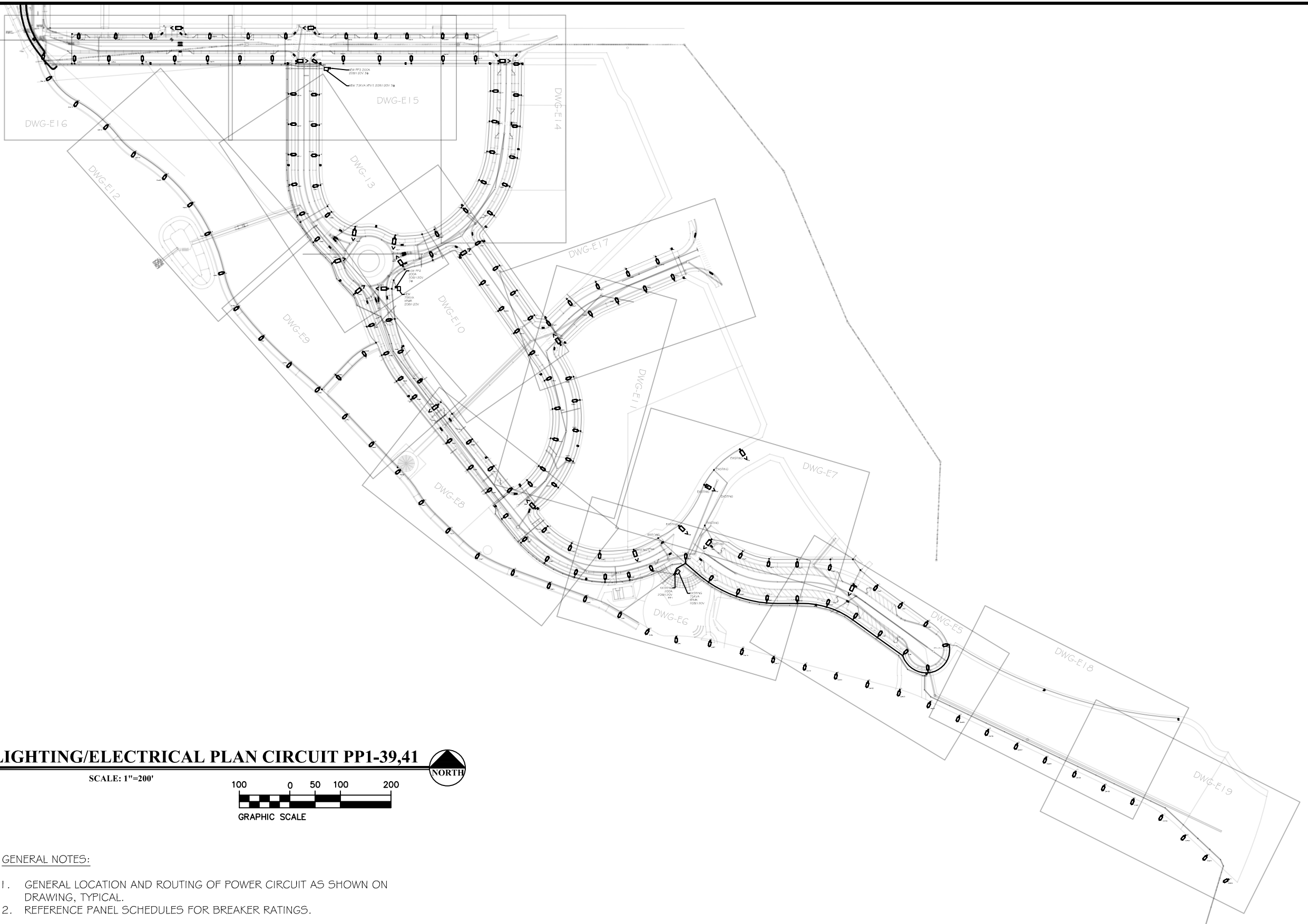
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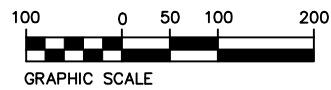
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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
 COMPOSITE UTILITY PLAN



LIGHTING/ELECTRICAL PLAN CIRCUIT PP1-39,41

SCALE: 1"=200'



GENERAL NOTES:

1. GENERAL LOCATION AND ROUTING OF POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
2. REFERENCE PANEL SCHEDULES FOR BREAKER RATINGS.



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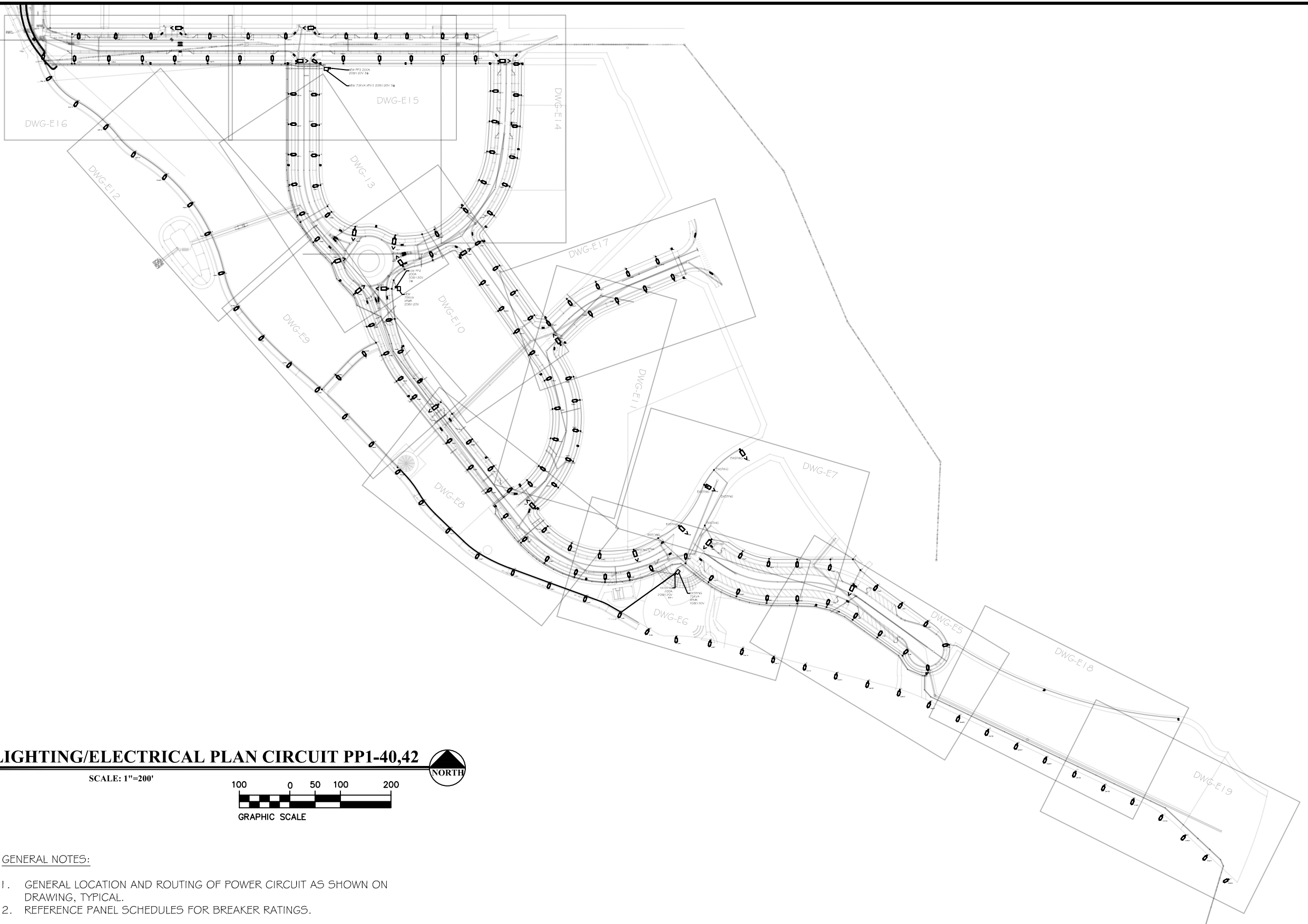
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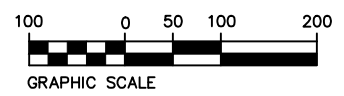
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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
 COMPOSITE UTILITY PLAN



LIGHTING/ELECTRICAL PLAN CIRCUIT PP1-40,42

SCALE: 1"=200'



GENERAL NOTES:

1. GENERAL LOCATION AND ROUTING OF POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
2. REFERENCE PANEL SCHEDULES FOR BREAKER RATINGS.



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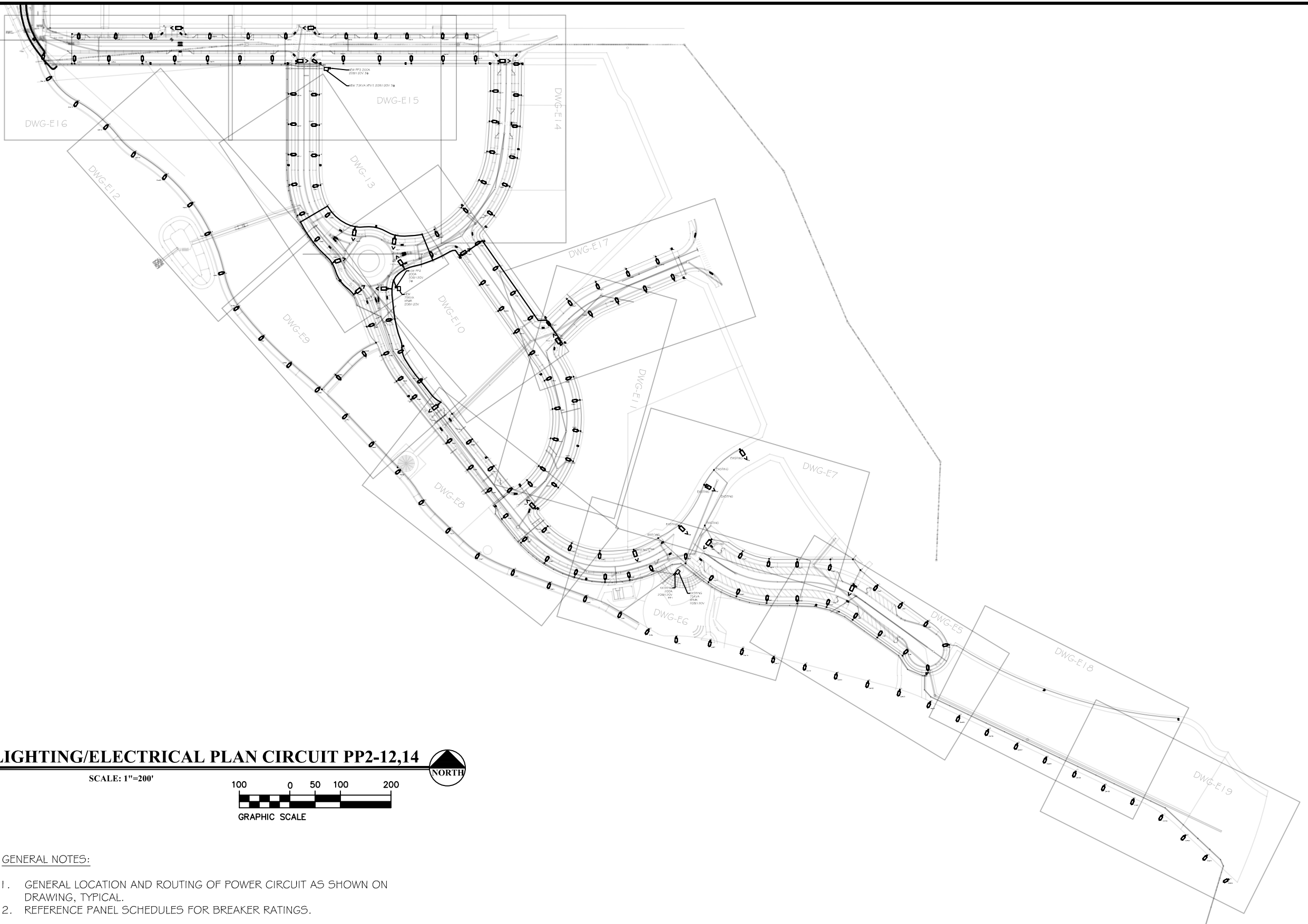
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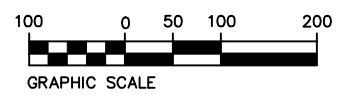
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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
 COMPOSITE UTILITY PLAN



LIGHTING/ELECTRICAL PLAN CIRCUIT PP2-12,14

SCALE: 1"=200'



GENERAL NOTES:

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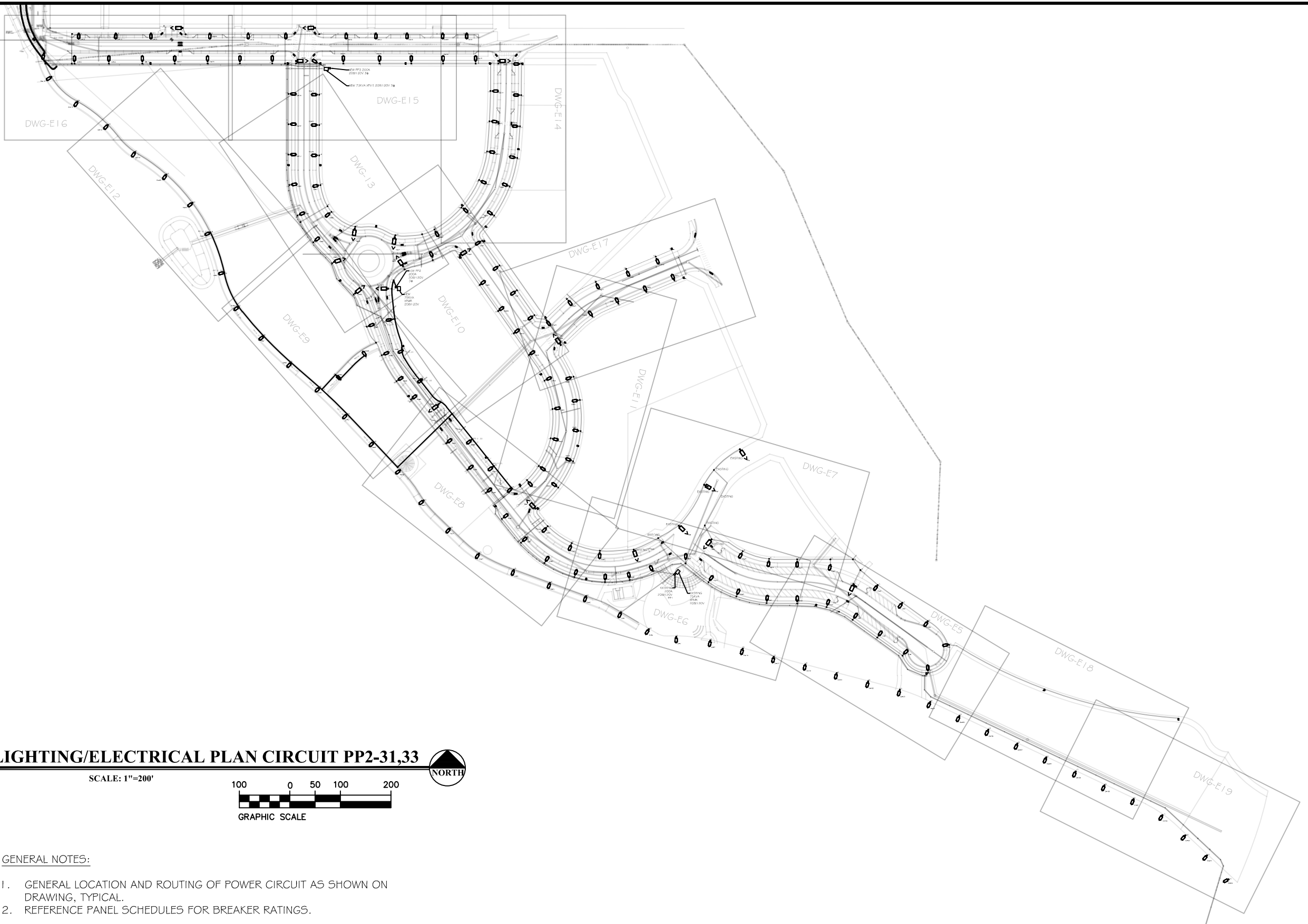
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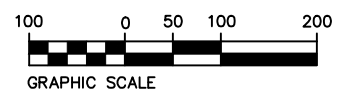
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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
 COMPOSITE UTILITY PLAN



LIGHTING/ELECTRICAL PLAN CIRCUIT PP2-31,33

SCALE: 1"=200'



GENERAL NOTES:

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2. REFERENCE PANEL SCHEDULES FOR BREAKER RATINGS.



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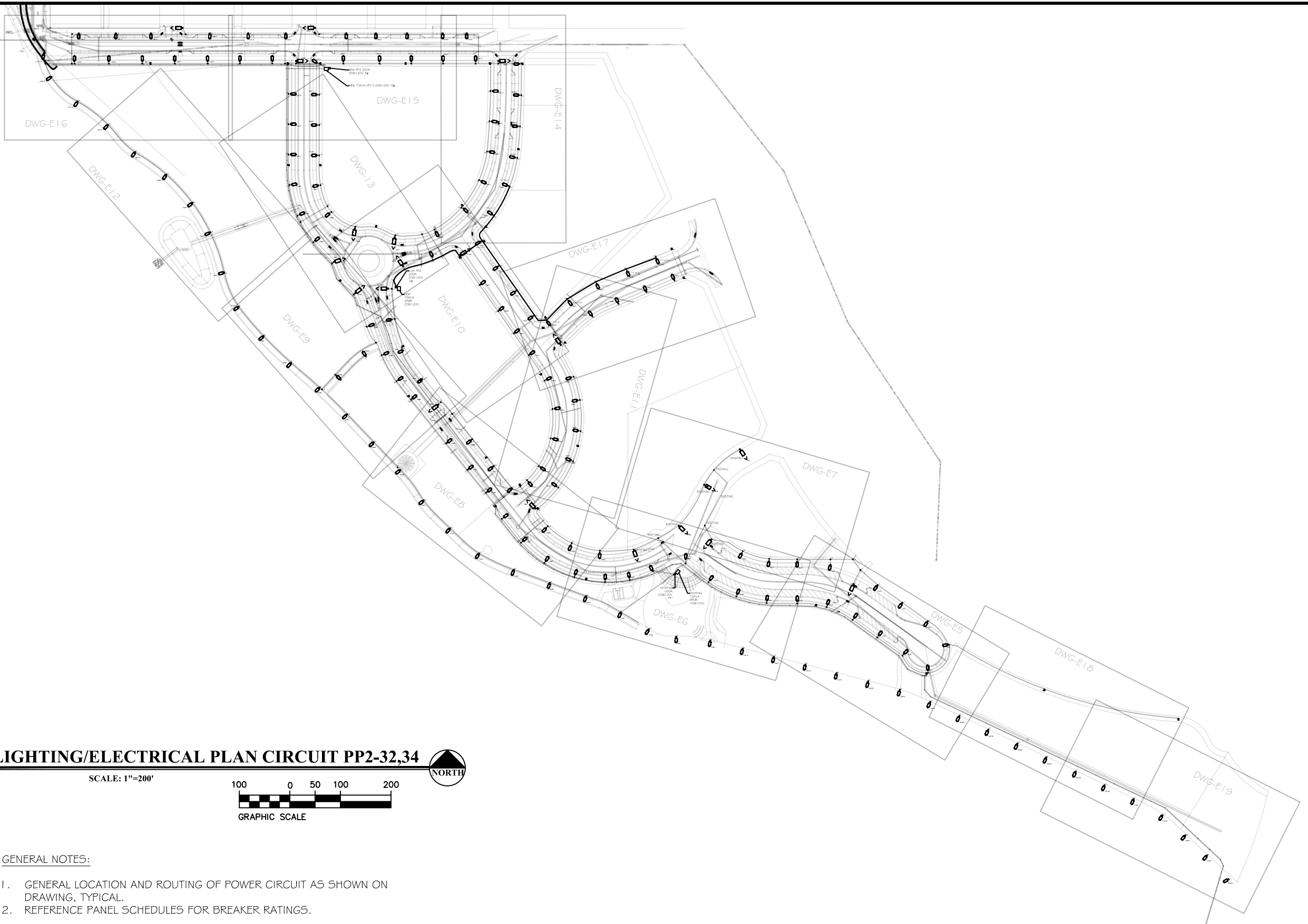
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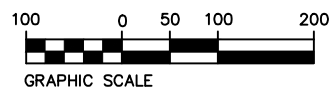
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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
 COMPOSITE UTILITY PLAN



LIGHTING/ELECTRICAL PLAN CIRCUIT PP2-32,34

SCALE: 1"=200'



GENERAL NOTES:

1. GENERAL LOCATION AND ROUTING OF POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
2. REFERENCE PANEL SCHEDULES FOR BREAKER RATINGS.



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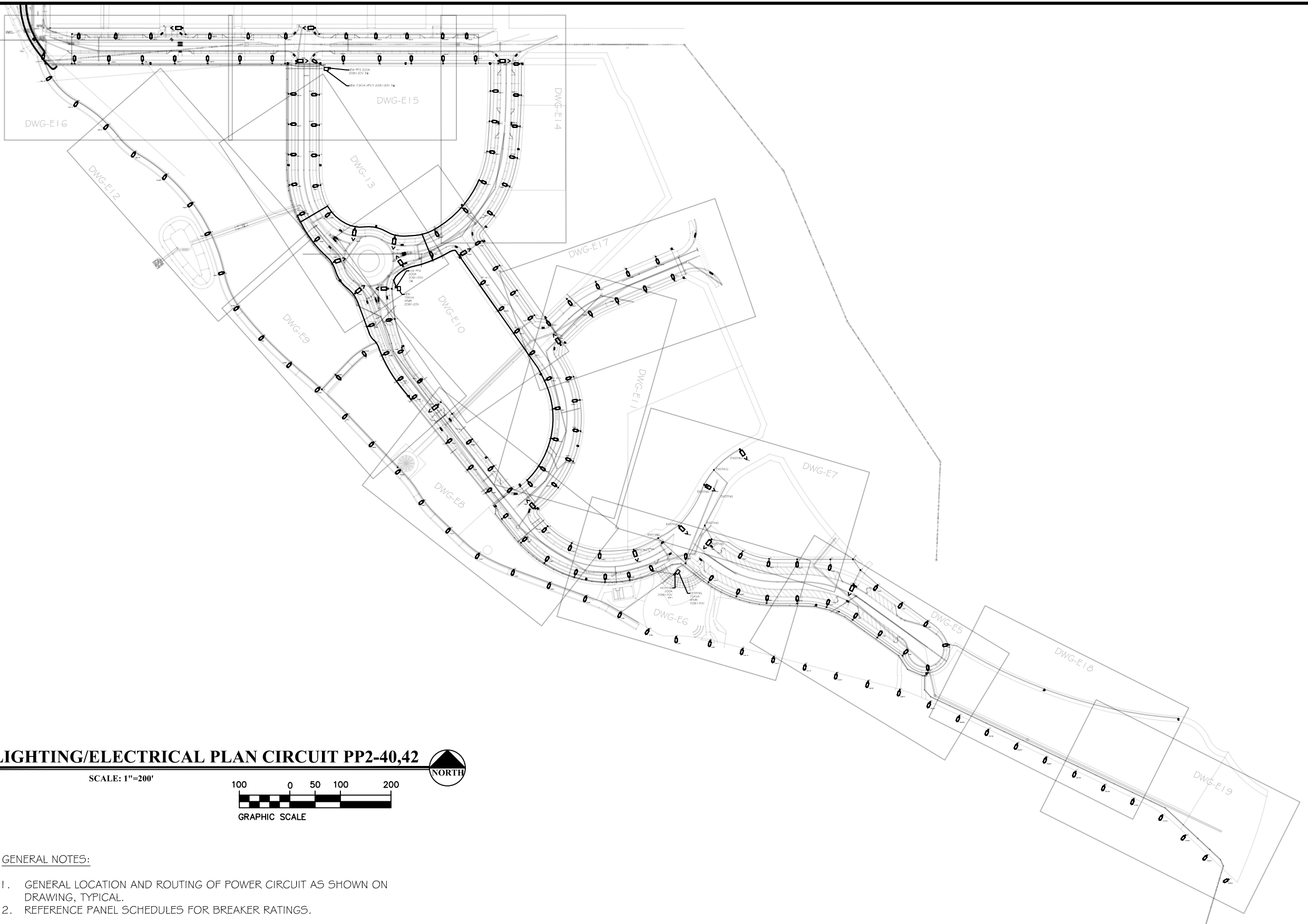
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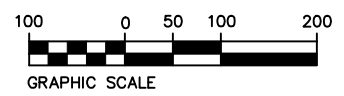
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 COMPOSITE UTILITY PLAN**



LIGHTING/ELECTRICAL PLAN CIRCUIT PP2-40,42

SCALE: 1"=200'



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2. REFERENCE PANEL SCHEDULES FOR BREAKER RATINGS.



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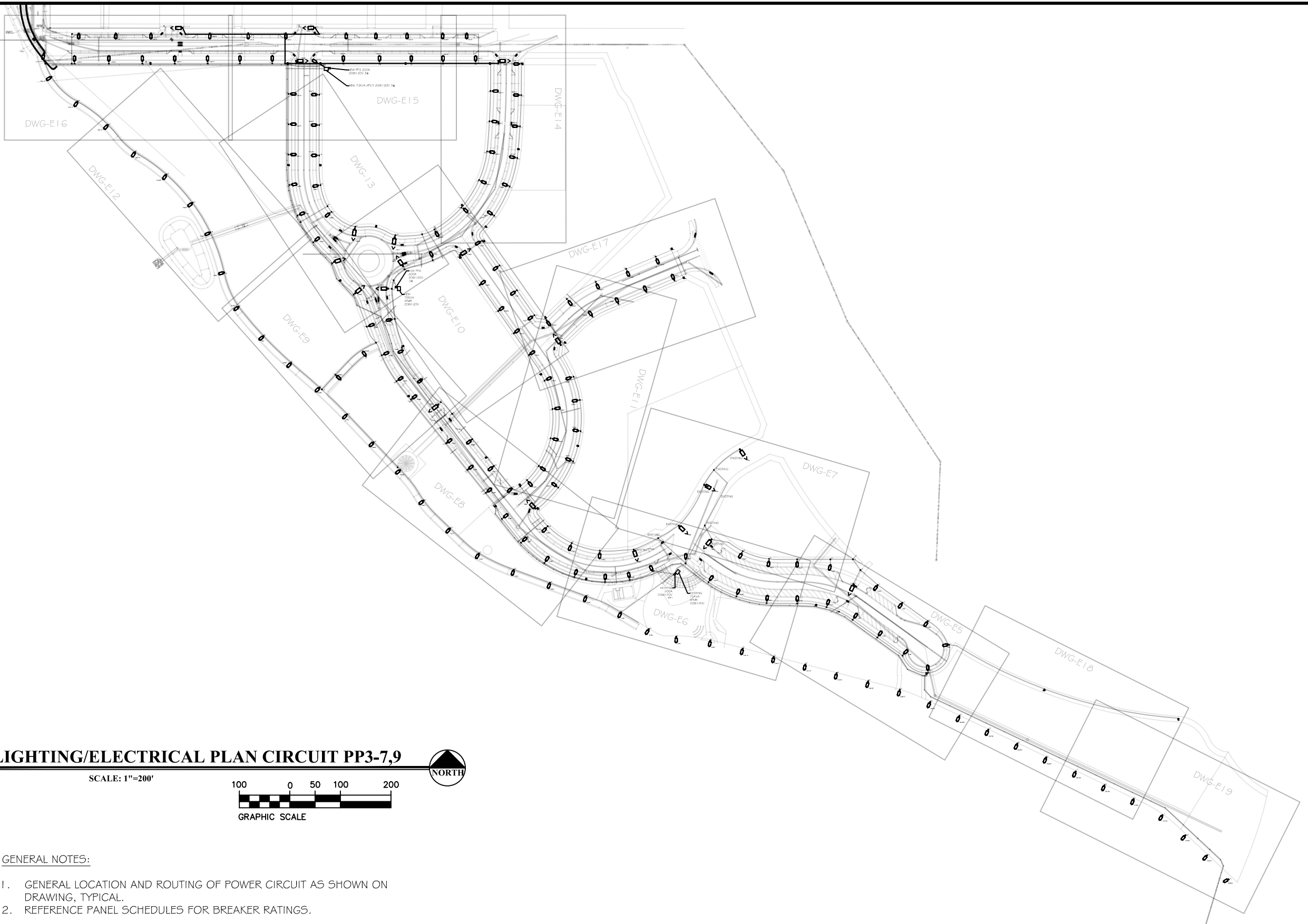
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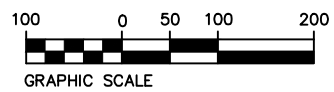
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**THE RIVERFRONT AT DOS RIOS WAY PHASE 2
 COMPOSITE UTILITY PLAN**



LIGHTING/ELECTRICAL PLAN CIRCUIT PP3-7,9

SCALE: 1"=200'



GENERAL NOTES:

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2. REFERENCE PANEL SCHEDULES FOR BREAKER RATINGS.



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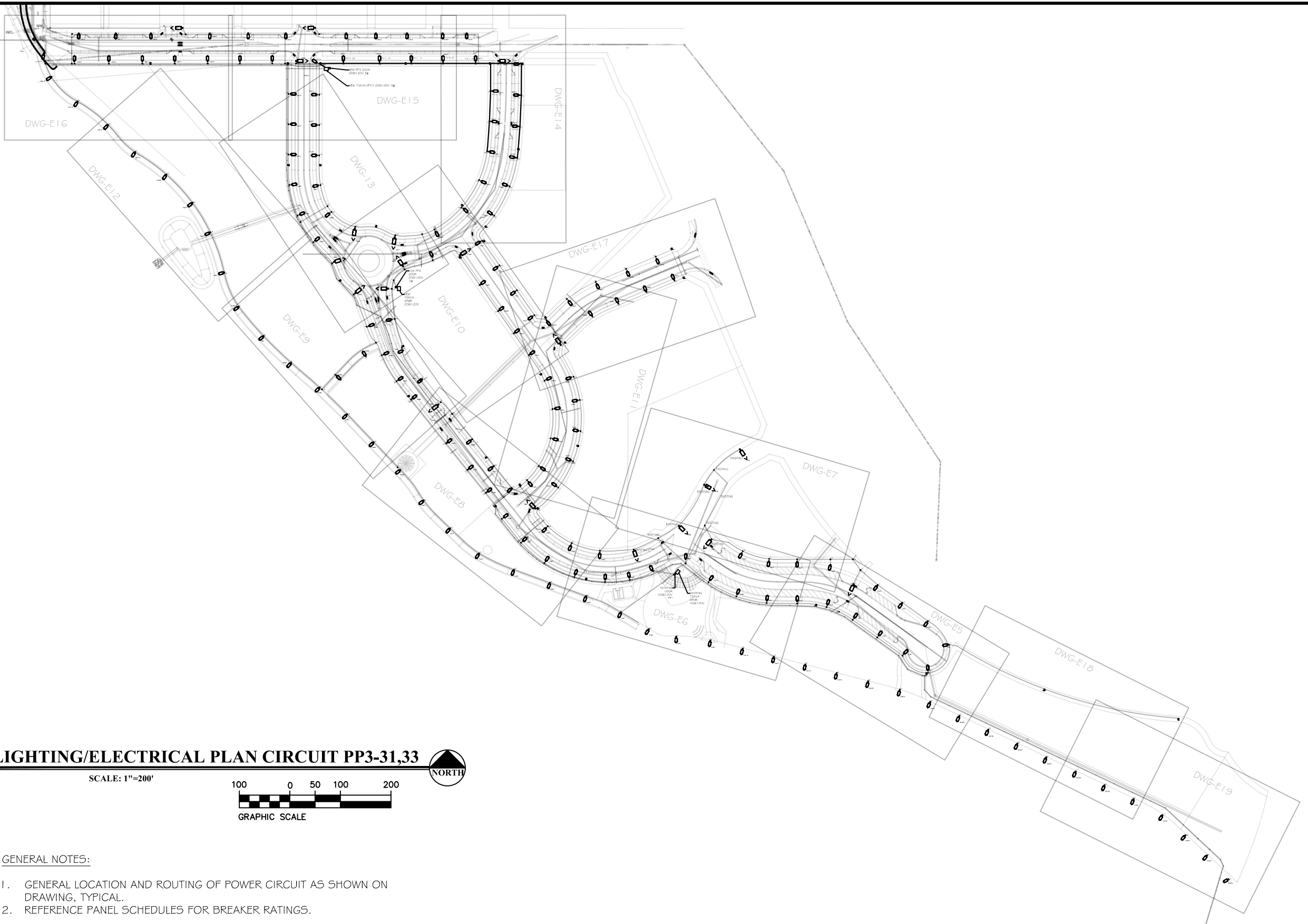
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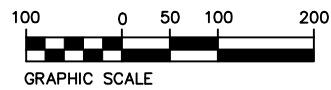
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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
 COMPOSITE UTILITY PLAN



LIGHTING/ELECTRICAL PLAN CIRCUIT PP3-31,33

SCALE: 1"=200'



GENERAL NOTES:

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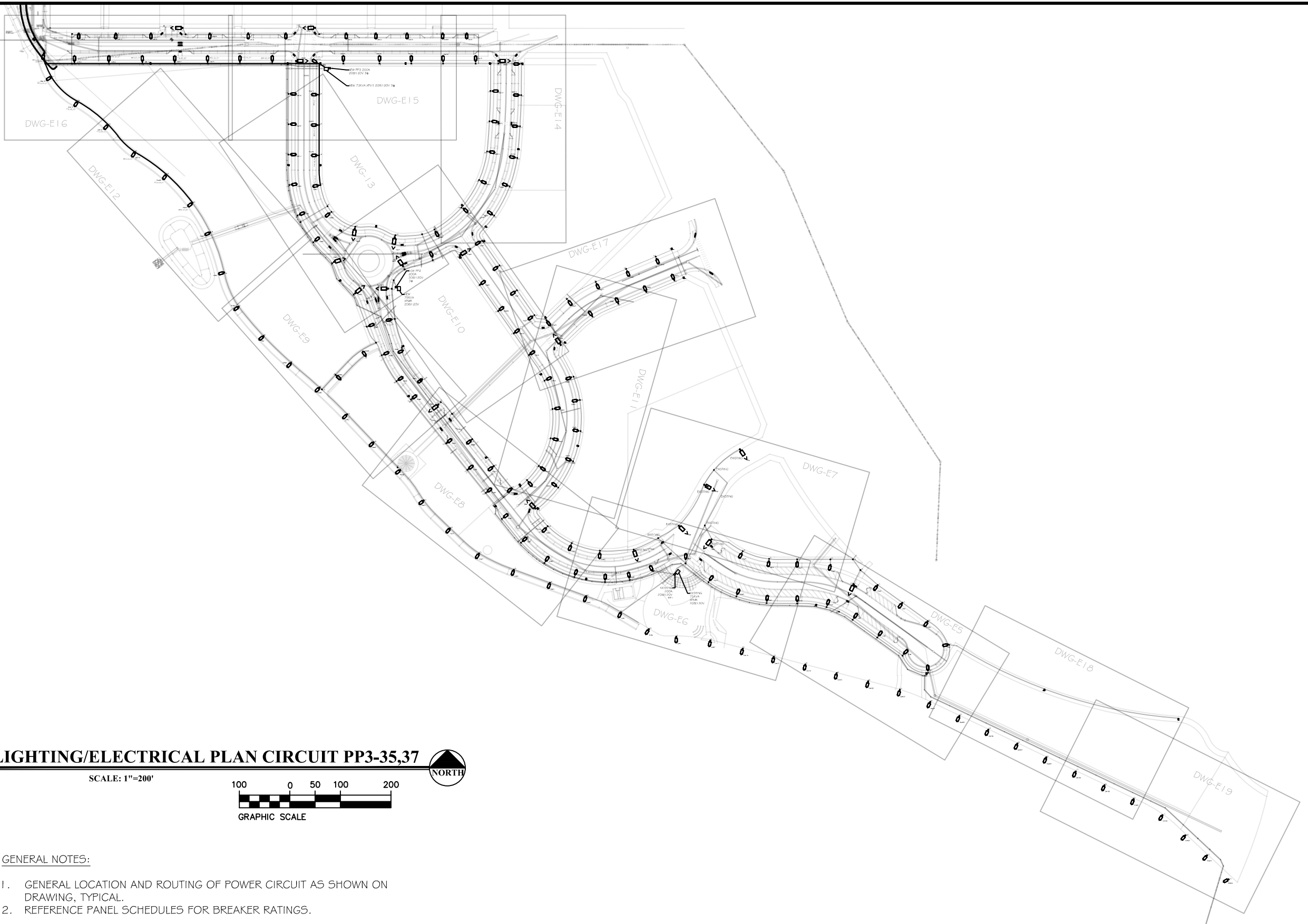
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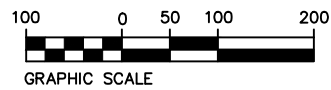
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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
 COMPOSITE UTILITY PLAN



LIGHTING/ELECTRICAL PLAN CIRCUIT PP3-35,37

SCALE: 1"=200'



GENERAL NOTES:

1. GENERAL LOCATION AND ROUTING OF POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
2. REFERENCE PANEL SCHEDULES FOR BREAKER RATINGS.



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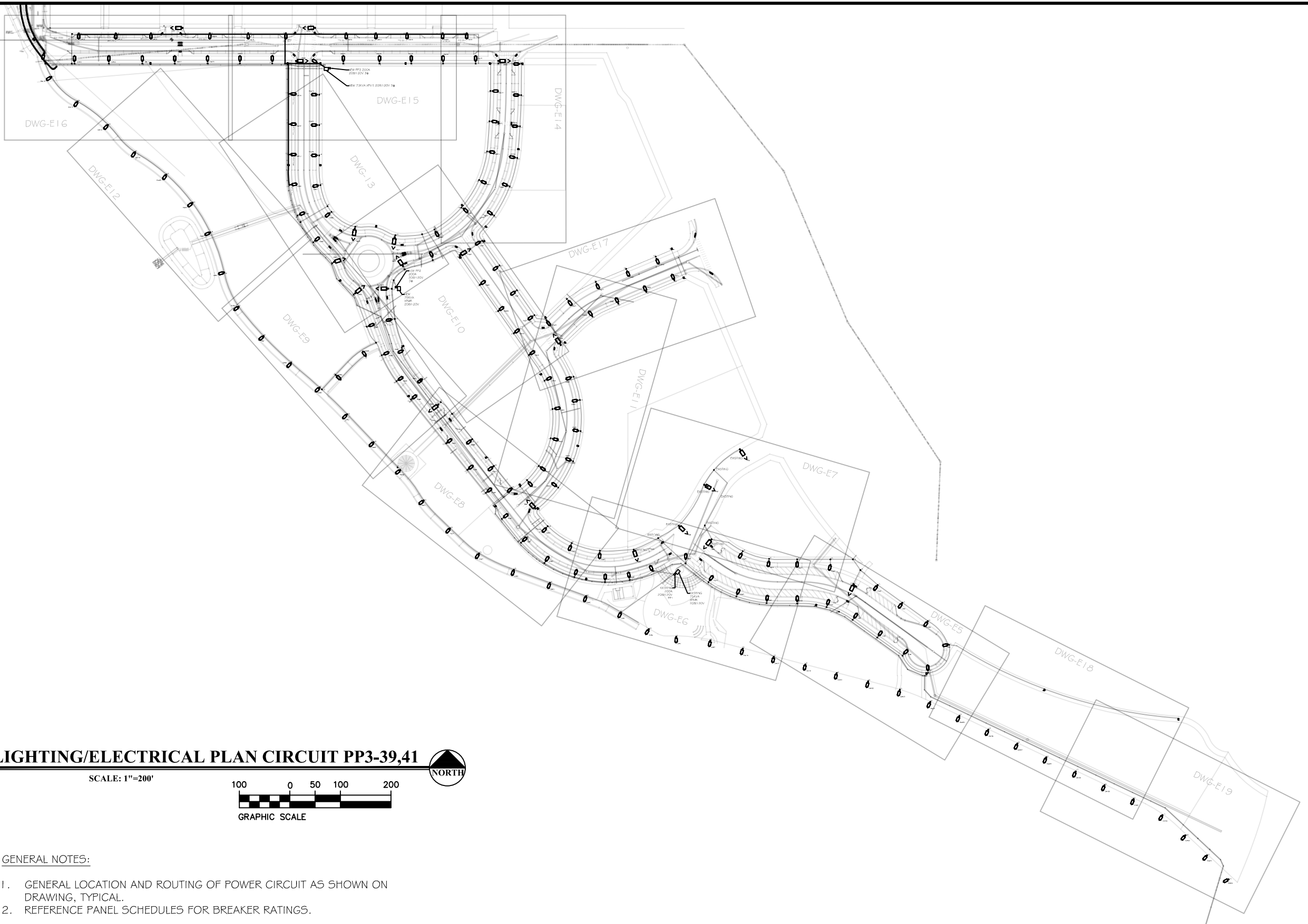
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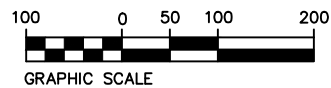
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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
 COMPOSITE UTILITY PLAN



LIGHTING/ELECTRICAL PLAN CIRCUIT PP3-39,41

SCALE: 1"=200'



GENERAL NOTES:

1. GENERAL LOCATION AND ROUTING OF POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
2. REFERENCE PANEL SCHEDULES FOR BREAKER RATINGS.



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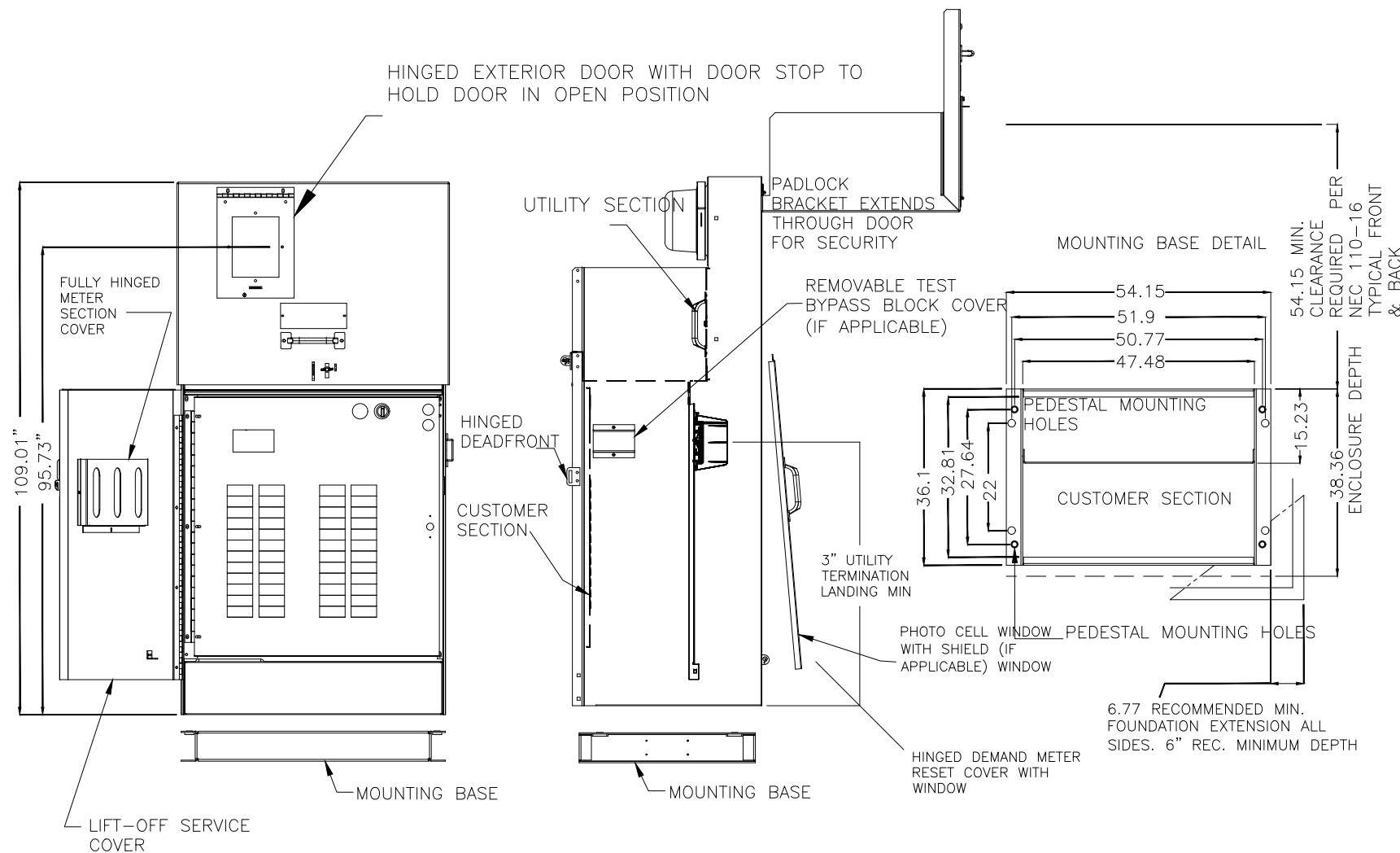
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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
 COMPOSITE UTILITY PLAN

24" COMMERCIAL PEDESTAL



B TYPICAL 3-PHASE POWER PEDESTAL/LIGHTING CONTROL CENTER PLAN
1 NOT TO SCALE

NOTES

1. COORDINATE EXACT INSTALATION REQUIREMENTS WITH PROVIDER PRIOR TO ROUGH-IN OR TRENCHING. CONTROL CABINET SHALL BE U/L LISTED "INDUSTRIAL CONTROL PANEL" PER UL 508.
2. CONSTRUCTION SHALL BE NEMA 3R. 12 GA. A60 STEEL POWDER COATED MINT GREEN WITH PHOTO ELECTRIC CELL IN SERVICE CABINET. ELECTRICAL CONTRACTOR TO PROVIDE PHOTOCELL.
3. VOLTAGE RATINGS OF SERVICE EQUIPMENT SHALL CONFORM TO THE SERVICE VOLTAGES INDICATED ON THE PLANS.
4. SERVICE EQUIPMENT ENCLOSURE AND METERING EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE SERVING UTILITY. WHEN THE SERVING UTILITY PROVIDES BOTH METERED AND UNMETERED CIRCUITS, A SEPARATE BUS SHALL BE PROVIDED FOR EACH CIRCUIT. THE METER AREA SHALL HAVE A SEALING, LOCKABLE, RAIN TIGHT COVER THAT CAN BE REMOVED WITHOUT THE USE OF TOOLS.
5. SERVICE EQUIPMENT SHALL BE FACTORY WIRED AND CONFORM TO NEMA STANDARDS.
6. THE EXTERIOR DOOR SHALL HAVE PROVISIONS FOR PADLOCKING. THE PADLOCK HOLE SHALL BE A MINIMUM DIAMETER OF 11mm.
7. ALL TERMINALS FOR INCOMING SERVICE CONDUCTORS SHALL BE COMPATIBLE WITH EITHER COPPER OR ALUMINUM CONDUCTORS SIZED TO SUIT THE CONDUCTORS SHOWN ON THE PLAN. TERMINAL LUGS SHALL BE COPPER OR TIN-PLATED ALUMINUM. SOLID NEUTRAL TERMINAL STRIP SHALL BE RATED 100A UNLESS OTHERWISE SPECIFIED AND FOR USE WITH COPPER OR ALUMINUM CONDUCTORS. THE TERMINAL SHOULD INCLUDE BUT NOT BE LIMITED TO:
 - A) INCOMING TERMINALS (LANDING LUGS)
 - B) NEUTRAL LUGS
 - C) SOLID NEUTRAL TERMINAL STRIP.
 - D) TERMINAL STRIPS FOR CONDUCTORS WITHIN THE ENCLOSURE.
8. CIRCUIT BREAKER SPACES (20mm NOMINAL) SHALL BE PROVIDED FOR BRANCH CIRCUITS. CIRCUIT BREAKER INTERIORS SHALL BE COPPER. INTERIORS SHALL ACCEPT PLUG-IN OR CABLE-IN/ CABLE-OUT CIRCUIT BREAKERS.
9. PLUG-IN CIRCUIT BREAKERS MAY BE MOUNTED IN THE VERTICAL OR HORIZONTAL POSITION. CABLE-IN/ CABLE-OUT CIRCUIT BREAKERS SHALL BE MOUNTED IN THE VERTICAL POSITION.
10. FASTENERS ON THE EXTERIOR OF THE ENCLOSURE SHALL BE VANDAL RESISTANT AND SHALL NOT BE REMOVABLE FROM THE EXTERIOR. ALL NUTS, BOLTS, SCREWS, WASHERS, AND HINGES SHALL BE STAINLESS STEEL.
11. PHENOLIC NAME PLATES SHALL BE PROVIDED AS REQUIRED.
12. A PLASTIC COVERED WIRING DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
13. FOUNDATION SHALL EXTEND 50mm MINIMUM BEYOND EDGE OF ENCLOSURE.
14. PANEL WILL ADHERE TO XCEL ENERGY REQUIREMENT FOR COLD SEQUENCE DISCONNECTION.



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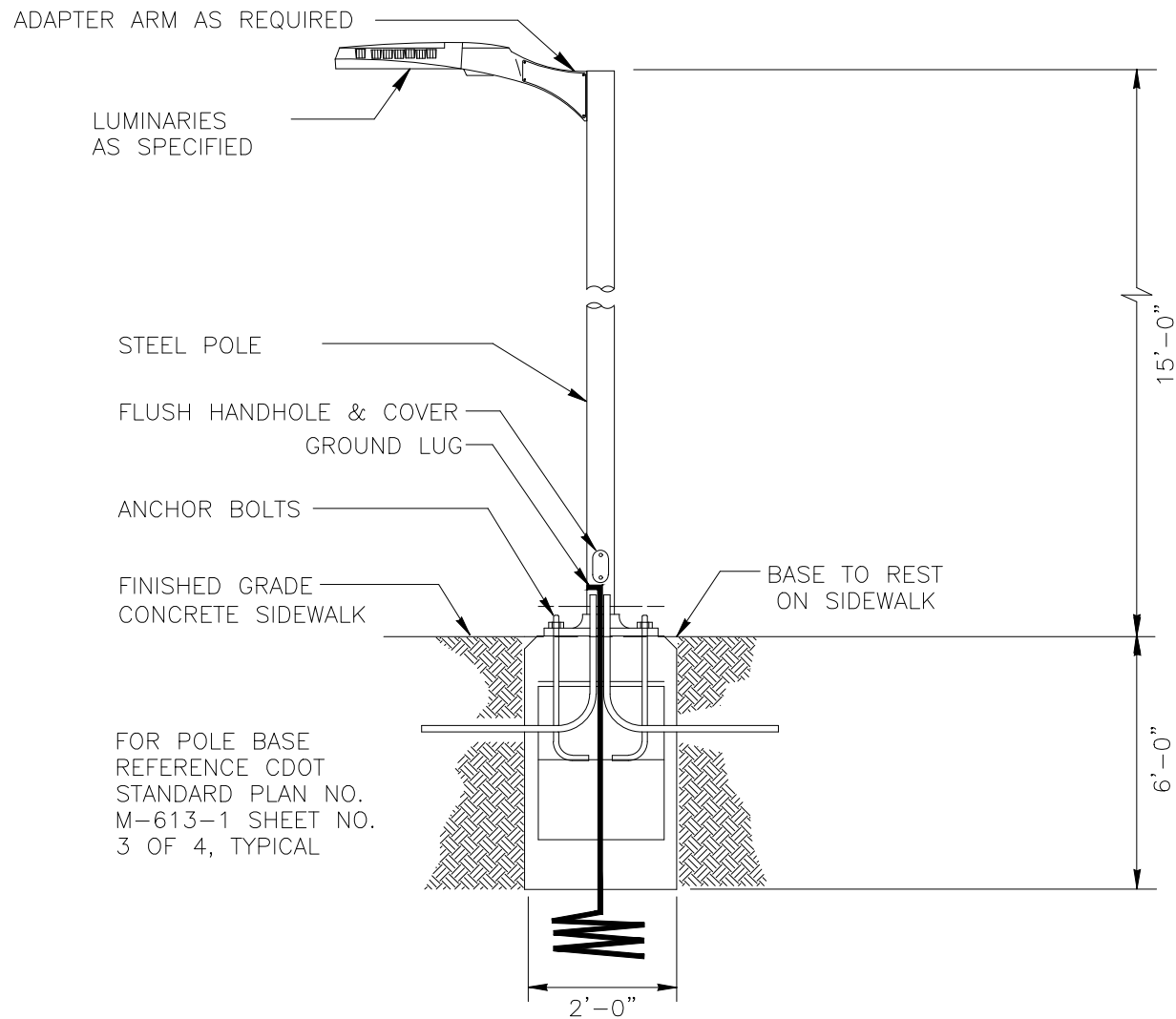
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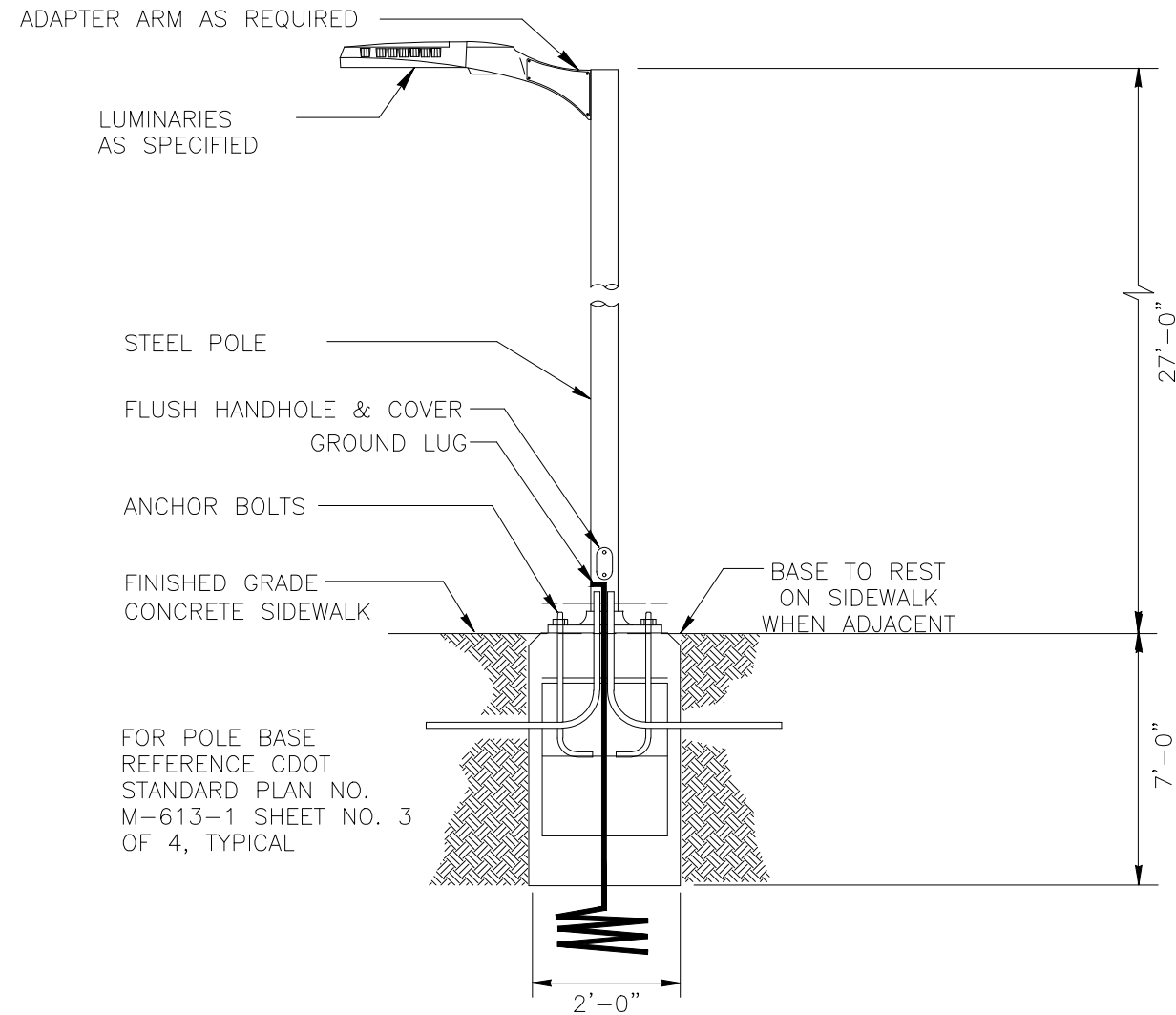
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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
 PEDESTAL DETAILS



TYPICAL SA LIGHT DETAIL

NOT TO SCALE



TYPICAL SB LIGHT DETAIL

NOT TO SCALE

GENERAL NOTES TYPES "A" AND "B":

1. ELECTRICAL CONTRACTOR TO ORDER ALL REQUIRED HARDWARE FOR MOUNTING OF EACH LUMINARIES.
2. VERIFY THE BURY DEPTH AND DIAMETER OF THE SONOTUBE FOR POLE LUMINARIES WITH THE CIVIL ENGINEER PRIOR TO PURCHASING THE EQUIPMENT. DEPTH WILL DEPEND ON SOIL CONDITIONS. TYPICAL CONCRETE DEPTH IS 7 FT. VERIFY WITH CIVIL ENGINEER.
3. ELECTRICAL CONTRACTOR TO VERIFY THAT ALL FIXTURES TO COMPLY WITH LIGHT TRESPASS AND AND DARK SKY CODES.
4. NOTIFY ENGINEER OF ANY OBSTRUCTIONS TO POLE PLACEMENT IMMEDIATELY BEFORE PROCEEDING.
5. VERIFY REQUIRED VOLTAGE OF FOR EACH LUMINARIES WITH AVAILABLE VOLTAGES PRIOR TO ORDERING.
6. REFERENCE CDOT STANDARD PLAN NO. M-613-1 SHEET NO. 3 OF 4, TYPICAL



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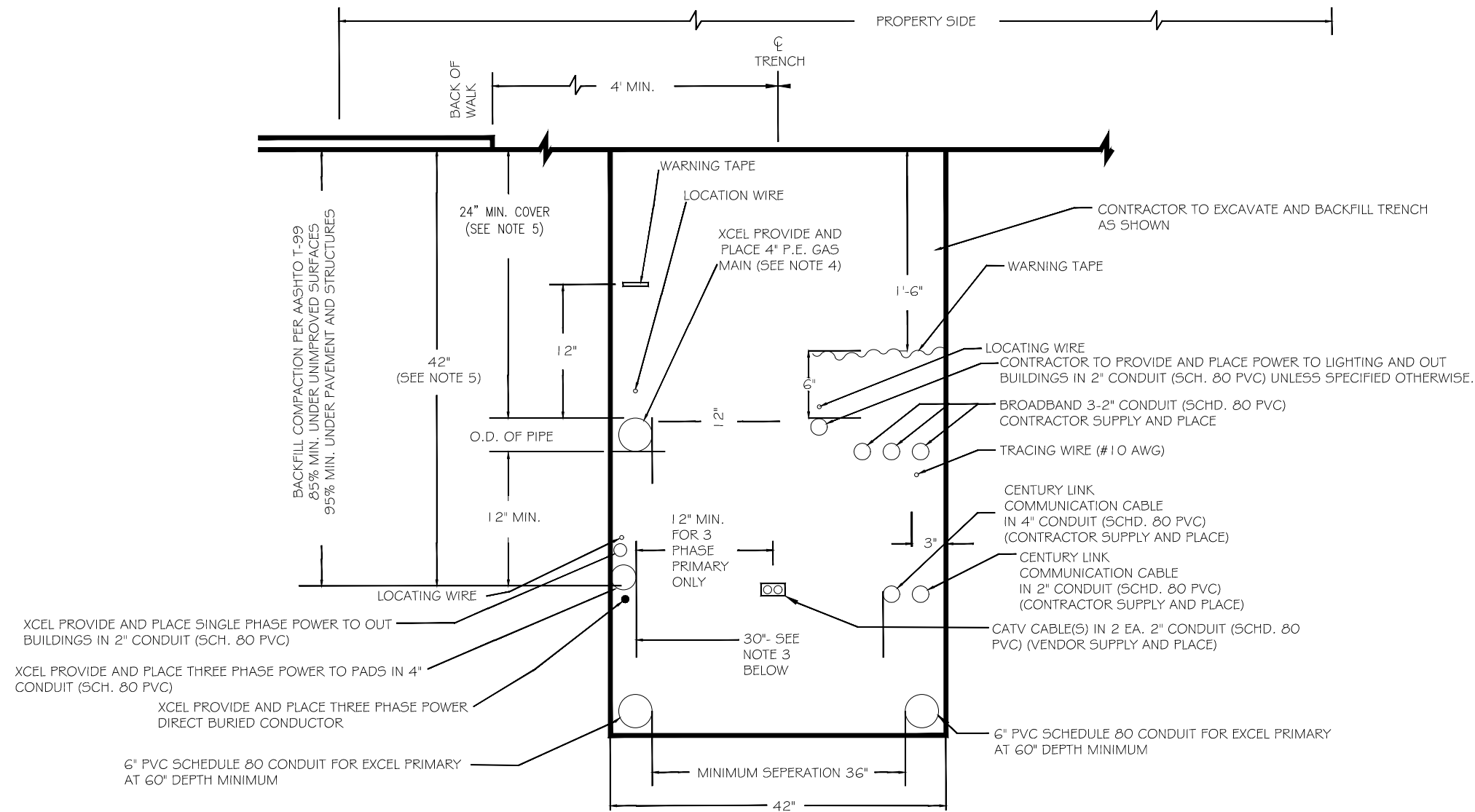
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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
LIGHTING DETAILS

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of 41



GENERAL NOTES:

1. FOR EASE OF CONSTRUCTION AND MAINTENANCE, PRIMARY CABLE SHOULD BE 12" TO 24" FROM COMMUNICATION CABLES. HOWEVER NESC REQUIREMENTS PERMIT "SUPPLY AND COMMUNICATION CABLES TO BE BURIED TOGETHER AT THE SAME DEPTH WITH NO DELIBERATE SEPARATIONS BETWEEN FACILITIES PROVIDED ALL PARTIES ARE IN AGREEMENT."
2. ONLY SINGLE PHASE SUPPLY CABLES CAN BE BURIED AT THE SAME DEPTH WITH NO DELIBERATE SEPARATION WITH COMMUNICATION CABLES. THREE PHASE CABLES MUST BE SEPARATED BY A MINIMUM OF 1 FOOT (REFERENCE NESC 354.D.3A).
3. 30" TRENCH WIDTH SHOULD BE USED WHEN ALL FOUR UTILITIES ARE INCLUDED.
4. STEEL GAS PIPE OR STEEL DUCT IS NOT ALLOWED FOR JOINT TRENCH CONSTRUCTION.
5. WHERE UNDERGROUND UTILITIES CROSS OR ENCR OACH INTO CITY STREETS THEY SHALL BE INSTALLED TO A DEPTH PROVIDING 3' MINIMUM COVER BELOW FINISHED GRADE.

TYPICAL COMMON TRENCH DETAIL PROPERTY SIDE

NOT TO SCALE



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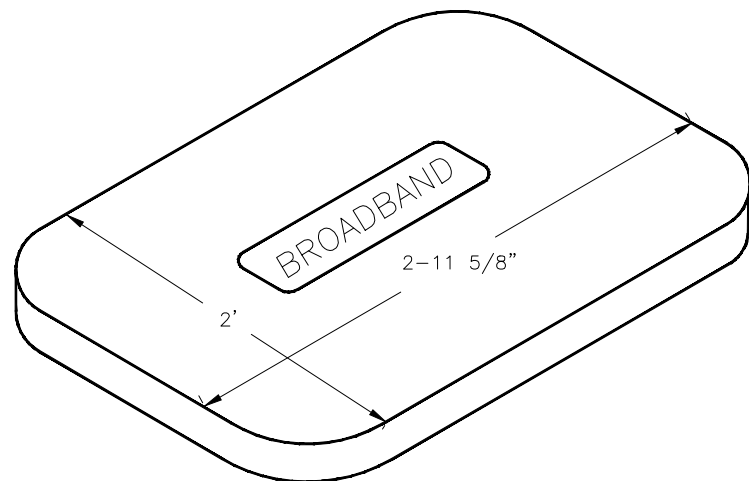
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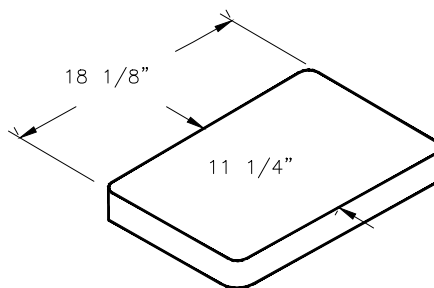
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UTILITY DETAILS DETAILS

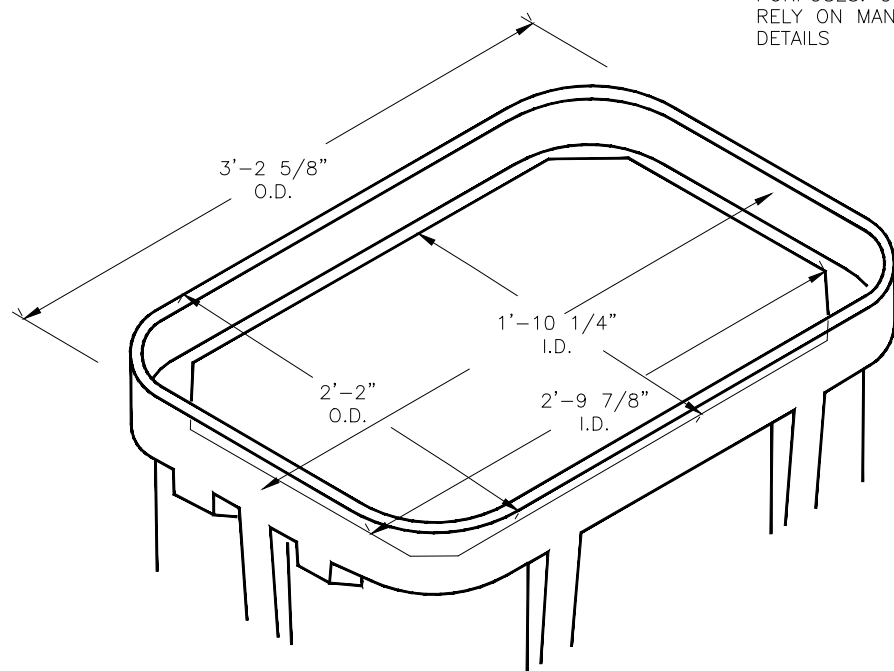


COVER

BROADBAND PULL BOX
(HUBBEL QUAZITE BOX) (BOX
PART NO PG2436BA30) COVER
PART NO PG2436HA00) OR
ENGINEER APPROVED EQUAL
DIMENSIONS SHOWN HERE FOR
LAYOUT AND PLANNING
PURPOSES. CONTRACTOR SHALL
RELY ON MANUFACTURER
DETAILS

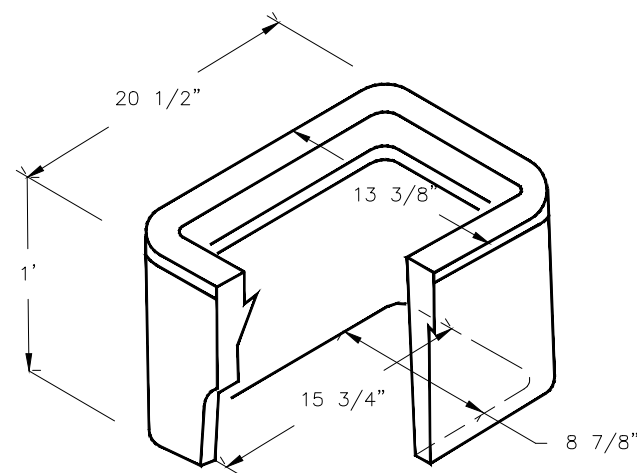


11 1/4"



BOX

BROADBAND PULL BOX
DIMENSIONS SHOWN HERE FOR
LAYOUT AND PLANNING
PURPOSES. CONTRACTOR SHALL
RELY ON MANUFACTURER
DETAILS



STREET LIGHT AND
PEDESTRIAN LIGHT PULL
BOX

DIMENSIONS SHOWN HERE FOR
LAYOUT AND PLANNING
PURPOSES. CONTRACTOR SHALL
RELY ON MANUFACTURER
DETAILS

GENERAL NOTES:

1. PULL BOXES, PULL BOX COVERS AND EXTENSIONS SHALL BE MADE OF FIBERGLASS REINFORCED POLYMER CONCRETE. PULL BOXES SHALL BE VERIFIED BY 3RD PARTY NATIONALLY RECOGNIZED INDEPENDENT TESTING LABORATORY AS MEETING ALL TEST PROVISIONS OF THE LATEST ANSI/SCTE 77 SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY, TIER 22 RATING. CERTIFICATION DOCUMENTS SHALL BE SUBMITTED WITH MATERIALS SUBMITTALS. THE PULL BOX SHALL HAVE A DETACHABLE COVER WITH A SKID RESISTANT SURFACE AND HAVE THE WORDS ELECTRICAL CAST INTO THE SURFACE. FADING THE WORDS SHALL NOT BE ACCEPTED. MARKINGS SHOWING THE TIER 22 RATING MUST BE LABELED OR STENCILED ON THE INSIDE AND OUTSIDE OF THE BOX AND THE ON UNDER SIDE OF THE COVER. THE COVER SHALL BE ATTACHED TO THE PULL BOX BODY BY MEANS OF A MINIMUM 3/8-7 UNIFIED NATIONAL COURSE (UNC) STAINLESS STEEL PENTA HEAD BOLTS SHALL HAVE TWO LIFT SLOTS TO AIDE IN THE REMOVAL OF THE LID.
2. PULL SLOTS SHALL BE RATED FOR A MINIMUM PULL OUT OF 3,000 POUNDS. MAGNESIUM CHLORIDE TESTS SHOULD BE PERFORMED IN ACCORDANCE WITH THE LATEST ANSI/SCTE 77 SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY, TIER 22 RATING.

TYPICAL PULLBOX DETAIL

NOT TO SCALE



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THE RIVERFRONT AT DOS RIOS WAY PHASE 2
UTILITY DETAILS DETAILS