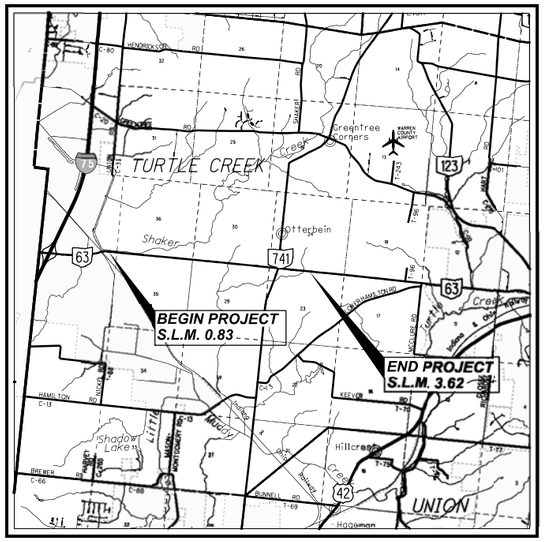
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
PART 1
WAR-SR-63-0.83 (SR 63 & SR 741)

CITY OF MONROE

TURTLE CREEK TOWNSHIP

WARREN COUNTY

FOR PART 2, SEE WAR-SR-63-0.83 (ODRC)



LOCATION MAP

LATITUDE: 39°26'21" N LONGITUDE: 84°17'49" W

SCALE IN MILES

0 1 2 3 4

PORTION TO BE IMPROVED

INTERSTATE HIGHWAY

FEDERAL ROUTES

STATE ROUTES

COUNTY & TOWNSHIP ROADS

OTHER ROADS

DESIGN DESIGNATION	SR 63	SR 741
CURRENT ADT (2025)	20,440	9,560
DESIGN YEAR ADT (2045)	34,430	12,190
DESIGN HOURLY VOLUME (2045)	3,440	1,220
DIRECTIONAL DISTRIBUTION	50%	50%
TRUCKS (24 HOUR B&C)	9%	5%
DESIGN SPEED	55 MPH	55 MPH
LEGAL SPEED	55 MPH	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	04 URBAN MINOR ARTERIAL	04 URBAN MINOR ARTERIAL
NHS PROJECT	NO	

DESIGN EXCEPTIONS

YES

DESIGN FEATURE	APPROVAL DATE	SHEET NO.
SR 63 SHOULDER WIDTH (PAVED) - LEFT SIDE	08-24-2023	6,7, 93-95
SR 63 SHOULDER WIDTH (PAVED) - RIGHT SIDE	08-24-2023	6,7, 93-95

ADA DESIGN WAIVERS

NONE

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
JACOBS
2 CROWNE POINT COURT, SUITE 100
CINCINNATI, OHIO 45241
TEL: 1 513 595 7500

WATER WORKS

STATE OF OHIO · MICHAEL J. FICHING · 67653 · REGISTERED PROFESSIONAL ENGINEER

08/24/2023
TRAFFIC SIGNALS

ENGINEER'S SEAL:

STATE OF OHIO · ANDREA L HARTH 74335 · REGISTERED PROFESSIONAL ENGINEER

SIGNED:
DATE: 08-24-2023

ENGINEER'S SEAL:

STATE OF OHIO · RAMNARAYAN NUNNA E-69028 · REGISTERED PROFESSIONAL ENGINEER

SIGNED:
DATE: 08-24-2023

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STANDARD CONSTRUCTION DRAWINGS

BP-3.1	1/21/22	F-1.1	7/19/13	HL-30.11	1/15/21	TC-41.40	10/18/13		800-2023		
BP-4.1	7/19/13	F-2.1	7/20/18	HL-30.22	1/15/21	TC-42.20	10/18/13		807	1/21/22	
BP-5.1	7/15/22	F-3.4	7/19/13			TC-52.10	10/18/13		809	7/21/23	
				ITS-12.50	7/16/21	TC-52.20	1/15/21		813	7/21/23	
CB-2-2A, 2B, 2C	1/20/23	MGS-1.1	7/16/21			TC-61.30	7/19/19		824	7/21/23	
CB-3	7/16/21	MGS-2.1	1/19/18	MT-97.10	4/19/19	TC-65.10	1/17/14		825	4/21/23	
CB-3A	7/16/21	MGS-3.1	1/19/18	MT-97.12	1/20/17	TC-65.11	7/15/22		832	7/21/23	
CB-5	7/16/21	MGS-3.2	1/18/13	MT-101.70	4/26/23	TC-71.10	4/26/23		836	1/19/18	
CB-6	1/21/22	MGS-4.2	7/19/13	MT-101.75	1/17/20	TC-81.22	4/26/23		850	7/21/23	
		MGS-5.3	7/15/16	MT-101.90	7/17/20	TC-83.10	1/17/20		872	1/21/22	
DM-1.1	7/17/20	MGS-6.1	1/19/18	MT-105.10	1/17/20	TC-83.20	7/15/22		878	1/21/22	
DM-1.2	7/16/21					TC-85.10	10/21/22		905	4/17/20	
DM-4.2	7/20/12	MH-3	7/16/21	TC-21.21	1/20/23	TC-85.20	4/26/23		909	7/21/23	
DM-4.3	1/15/16			TC-41.10	7/19/13				913	4/16/21	
DM-4.4	1/15/16	RM-4.2	4/17/20	TC-41.20	10/18/13						
				TC-41.30	4/26/23						

FEDERAL PROJECT NUMBER

E220273

RAILROAD INVOLVEMENT

INDIANA & OHIO RAILWAY COMPANY

PROJECT DESCRIPTION

WIDENING AND RECONSTRUCTION OF SR 63 IN WARREN COUNTY FROM EAST OF UNION ROAD TO EAST OF SR 741 INTERSECTION. THE WORK ALSO INVOLVES INSTALLING CURB & GUTTER, DRAINAGE, TRAFFIC CONTROL AND TRAFFIC SIGNALS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	36.73 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	2.69 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	39.42 ACRES

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Neil F. Tunison

APPROVED

DATE 8/24/23

NEIL F. TUNISON, PE, PS
WARREN COUNTY TRANSPORTATION IMPROVEMENT DISTRICT
SECRETARY - TREASURER

TITLE SHEET

DESIGN AGENCY
JACOBS

DESIGNER MJA

REVIEWER RN 08/22/23

PROJECT ID 112121

SHEET 1 TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/24/2023 TIME: 12:24:21 PM USER: mumna
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BEGIN PROJECT
STA. 107+16.75
S.L.M. = 0.83

RAILROAD

UNION RD.

STA. 106+75.12, 2.25' LT, ℄ CONST. SR 63 =
STA. 300+00.00, ℄ N. UNION RD.

24" TYPE C

WETLAND C

℄ EX. R/W SR 63

℄ CONSTRUCTION SR 63

EX. 26" GAS

EX. 36" GAS

MIAMI VALLEY GAMING

PI 121+42.80
DEFLECTION = 0°03'02" LT.
NO CURVE

S84°34'56"E

WETLAND B

PI 131+07.31
DEFLECTION = 0°18'51" LT.
NO CURVE

WETLAND A-2

WETLAND A-1

SHAKER RUN CREEK

OVERHEAD UTILITIES

PI 142+05.03
DEFLECTION = 0°24'31" RT.
NO CURVE

OVERHEAD UTILITIES

℄ CONST. ACCESS DRIVE 1

STA.146+77.31, ℄ CONST. SR 63 =
STA 602+35.04, ℄ CONST. ACCESS
DRIVE 1

FLOOD PLAIN

FLOOD PLAIN

MATCH LINE STA. 150+00.00

300

24" TYPE B

EX. 24" TILE

CURVE SR 63 -1

PT 113+99.28

S84°31'54"E

STA 116+36.16, ℄ CONST. SR 63 =
STA. 1+00.00, ℄ MIAMI VALLEY GAMING

OVERHEAD UTILITIES

S84°53'47"E

S84°29'16"E

STA 127+91.00, ℄ CONST. SR 63 =
STA. 10+00.00, ℄ WARREN CORRECTIONAL INSTITUTION

PC 100+00.00

OVERHEAD UTILITIES

UNION RD.

BEGIN WORK
STA. 102+50.00

STA. 106+63.83 2.04' LT, ℄ CONST. SR 63 =
STA. 400+00.00, ℄ S. UNION RD.

WARREN CORRECTIONAL INSTITUTION

PART 2
BY OTHERS

GATEWAY BLVD

FLOOD PLAIN

CURVE - SR 63 -1
P.I. = STA. 107+04.11
Δ = 15°47'54" RT
DC = 01°07'45"
R = 5,074.75'
T = 704.11'
L = 1,399.28'
E = 48.61'
emax = 0.025
D.S. = 55mph

FLOOD PLAIN

FLOOD PLAIN

SHAKER RUN CREEK

FLOOD PLAIN

DUKE OVERHEAD TRANSMISSION

MATCH LINE STA. 150+00.00

STREAM 1

EX. 18" RCP

COMMUNITY CORRECTIONAL CENTER

℄ CONSTRUCTION SR 63

℄ EX. R/W SR 63

EX. 24" HDPE

WETLAND D

EX. 15" CPP

EX. 24" CONDUIT

PI 170+43.55
DEFLECTION = 0°09'47" LT.
NO CURVE

OVERHEAD UTILITIES

PI 181+17.11
DEFLECTION = 0°24'10" RT.
NO CURVE

℄ CONST. ACCESS DRIVE 2

WETLAND F

SHAKER RUN SUBSTATION

STREAM 3

PI 195+29.94
DEFLECTION = 0°02'51" RT.
NO CURVE

MATCH LINE STA. 200+00.00

S84°29'16"E

24" TYPE A
STREAM 2

WETLAND E

S84°39'03"E

S84°14'53"E

24" TYPE B

EX. 8'X4' CONCRETE BOX

S84°12'02"E

30" TYPE A

STA. 158+27.49, ℄ CONST. SR 63 =
STA. 3+00.00, ℄ CONST. COMMUNITY CORRECTIONAL CENTER

OVERHEAD UTILITIES

STA. 181+82.02, ℄ CONST. SR 63 =
STA. 702+81.88, ℄ CONST. ACCESS DRIVE 2

12'x4' TYPE A

WETLAND G

OVERHEAD UTILITIES

NOTES:

1. THERE ARE EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.
2. FOR HORIZONTAL AND VERTICAL CONTROL, SEE SHEET 4.

HORIZONTAL SCALE IN FEET
0 100 200 400

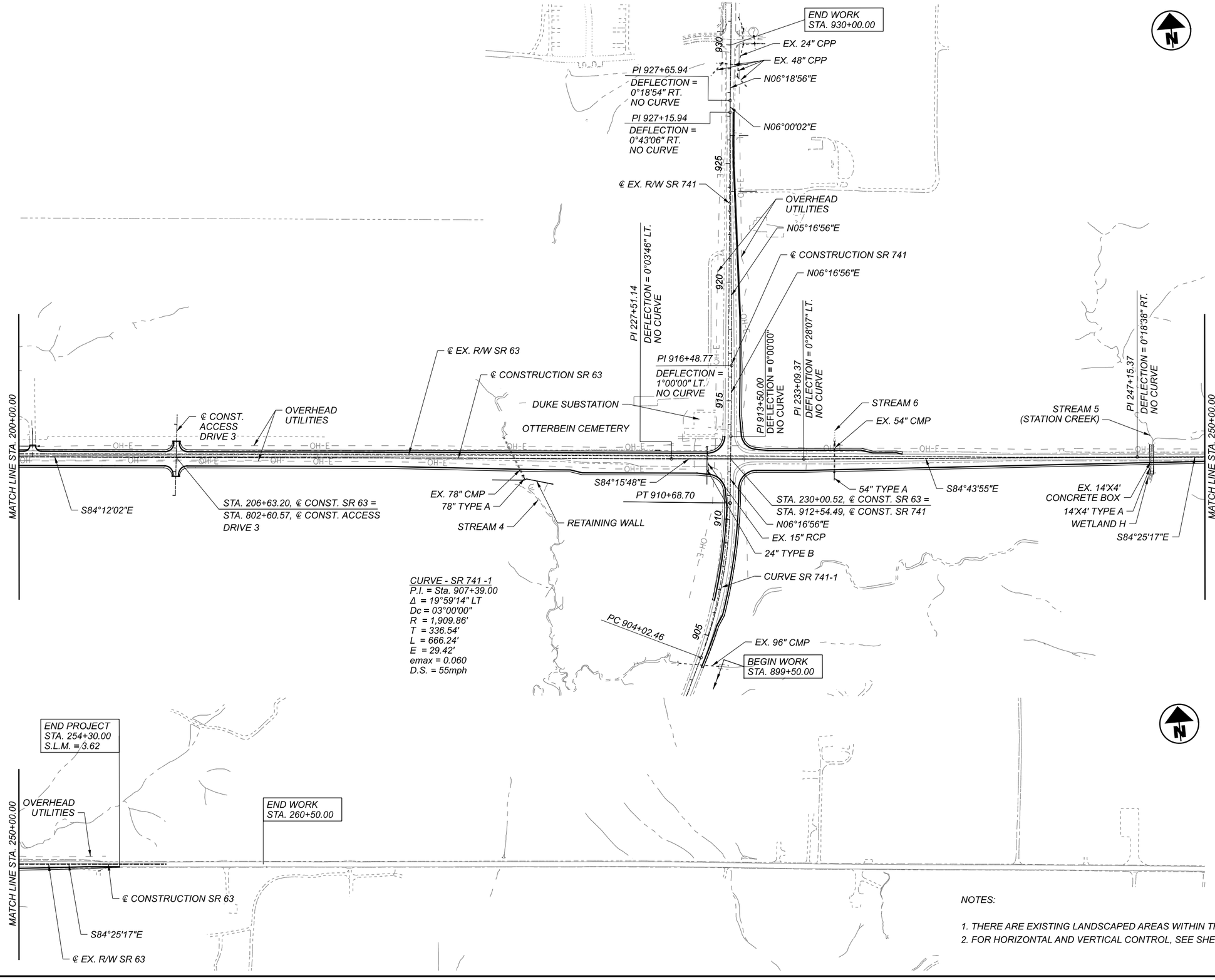
SCHEMATIC PLAN
STA. 100+00.00 TO STA. 200+00.00

DESIGN AGENCY
JACOBS

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 2 TOTAL 436

WAR-63-0.83

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NOTES:

1. THERE ARE EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.
2. FOR HORIZONTAL AND VERTICAL CONTROL, SEE SHEET 4.

HORIZONTAL SCALE IN FEET
0 100 200 400

SCHEMATIC PLAN
STA. 200+00.00 TO STA. 256+27.37

WAR-63-0.83

DESIGN AGENCY
JACOBS

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 3 TOTAL 436

MODEL: CLP_SR63 - Plan 3 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:42:48 PM USER: Tahir.Sondo@jacobs.com
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SR 63 HORIZONTAL CURVE DATA

CURVE NO.	CONTROL POINT	STATION	NORTHING	EASTING	RADIUS	L	DELTA	Dc	T	E	emax	DESIGN SPEED MPH
SR 63 -1	PC	100+00.00	529731.386	1453026.677								
	PI	107+04.11	529857.646	1453719.370	5074.75	1399.28	15°47'54" RT	01°07'45"	704.11	48.61	0.025	55
	PT	113+99.28	529790.549	1454420.273								
	PI	121+42.80	529719.697	1455160.405			0°03'02" LT					55
	PI	131+07.31	529628.630	1456120.608			0°18'51" LT					55
	PI	142+05.03	529530.982	1457213.975			0°24'31" RT					55
	PI	170+43.55	529258.317	1460039.373			0°09'47" LT					55
	PI	181+17.11	529158.234	1461108.259			0°24'10" RT					55
	PI	195+29.94	529016.637	1462513.973			0°02'51" RT					55
	PI	227+51.14	528691.146	1465718.691			0°03'46" LT					55
	PI	233+09.37	528635.348	1466274.119			0°28'07" LT					55
	PI	247+15.37	528506.255	1467674.181			0°18'38" RT					55

SR 741 HORIZONTAL CURVE DATA

CURVE NO.	CONTROL POINT	STATION	NORTHING	EASTING	RADIUS	L	DELTA	Dc	T	E	emax	DESIGN SPEED MPH
SR 741-1	PC	904+02.46	527845.239	1465760.710								
	PI	907+39.00	528147.023	1465909.660	1909.86	666.24	19°59'14" LT	03°00'00"	336.54	29.42	0.060	55
	PT	910+68.70	528481.543	1465946.486								
	PI	913+50.00	528761.157	1465977.268			0°00'00"					55
	PI	916+48.77	529058.129	1466009.960			1°00'00" LT					55
	PI	927+15.94	530120.764	1466108.205			0°43'06" RT					55
	PI	927+65.94	530170.494	1466113.432			0°18'54" RT					55

PRIMARY PROJECT CONTROL

POINT NUMBER	GRID COORDINATES U.S. SURVEY FEET		SR 63		ELEVATION	DESCRIPTION
	NORTH (Y)	EAST (X)	STATION	OFFSET		
VA001	529322.2793	1453086.157	99+83.84	412.12' RT	673.64	AERTAR
VA002	529497.9481	1453919.085	108+96.19	315.66' RT	667.46	IPIN
VA003	529869.3548	1454841.515	118+11.10	118.59' LT	673.77	IPINS
VA004	529652.3736	1455744.678	127+30.81	11.86' RT	671.82	IPINS
VA005	529650.6686	1456525.498	135+08.63	57.97' LT	674.41	IPINS
VA006	529531.0429	1457063.317	140+54.96	13.34' RT	692.46	IPINS
VA007	529448.7706	1457997.569	149+92.89	6.56' RT	719.46	CMON
VA008	529465.4760	1458840.974	158+30.79	91.08' LT	730.36	AERTAR
VA009	529397.4971	1459071.328	160+61.61	45.55' LT	741.52	IPIN
VA010	529286.8288	1460125.487	171+26.63	36.42' LT	784.19	IPINS
VA011	529145.0144	1461203.357	182+13.06	3.62' RT	774.81	AERTAR

THE COORDINATES ARE ON GRID SYSTEM. PROJECT ADJUSTMENT FACTOR IS 1.

ITEM 623 - MONUMENT ASSEMBLY ADJUSTED TO GRADE

NUMBER	CENTERLINE OF RW SR 63		CENTERLINE OF RW SR 741		CENTERLINE OF CONSTRUCTION SR 63		CENTERLINE OF CONSTRUCTION SR 741		TOTAL
	STATION	OFFSET	STATION	OFFSET	STATION	OFFSET	STATION	OFFSET	
1	70+00.16	0.1898' LT			111+93.97	11.147' LT			1
2	73+70.77	0'			115+63.96	18.146' LT			1
3	187+95.76	0.0290' LT			229+88.91	12.998' LT			1
4	197+99.06	0'			239+92.27	4.970' LT			1
5			227+90.53	0'			904+54.30	1.672' LT	1
6			233+00.12	0'			909+65.36	9.704' LT	1
7			249+99.94	0'			926+65.88	0.628' LT	1
TOTAL MONUMENT ASSEMBLY ADJUSTED TO GRADE, QUNATITY CARRIED TO SHEET NO. 16									7

ITEM 623 - TYPE A, REFERENCE MONUMENTS

NUMBER	CENTERLINE OF RW SR 63			CENTERLINE OF CONSTRUCTION SR 63				TOTAL
	STATION	OFFSET	OFFSET	STATION	OFFSET	STATION	OFFSET	
1	90+00.00	55.00' LT	85.00' RT	131+93.62	73.611' LT	131+92.82	66.397' RT	2
2	100+00.00	55.00' LT	85.00' RT	141+93.61	67.850' LT	141+92.80	72.148' RT	2
3	110+00.00	55.00' LT	100.00' RT	151+93.12	69.139' LT	151+93.33	85.860' RT	2
4	120+00.00	55.00' LT	95.00' RT	161+93.24	68.890' LT	161+93.11	81.109' RT	2
5	130+00.00	55.00' LT	90.00' RT	171+93.44	67.605' LT	171+92.90	77.394' RT	2
6	139+00.00	55.00' LT	90.00' RT	180+93.43	64.271' LT	180+92.89	80.728' RT	2
7	150+00.00	45.00' LT	85.00' RT	191+93.13	57.210' LT	191+93.21	72.790' RT	2
8	160+00.00	55.00' LT	85.00' RT	201+93.03	68.444' LT	201+93.32	71.556' RT	2
9	170+00.00	45.00' LT	100.00' RT	211+93.05	60.454' LT	211+93.34	84.546' RT	2
10	190+00.00	75.00' LT	100.00' RT	231+93.33	87.477' LT	231+92.91	87.522' RT	2
11	201+00.00	45.00' LT	75.00' RT	242+93.47	46.424' LT	242+92.70	73.573' RT	2
12	210+00.00	45.00' LT	45.00' RT	251+93.23	43.238' LT	251+93.14	46.762' RT	2
TOTAL TYPE A, REFERENCE MONUMENTS, QUNATITY CARRIED TO SHEET NO. 16								24

HORIZONTAL CONTROL

DESIGN AGENCY
JACOBS

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 4 TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:43:08 PM USER: Tahir.Sondo@jacobs.com
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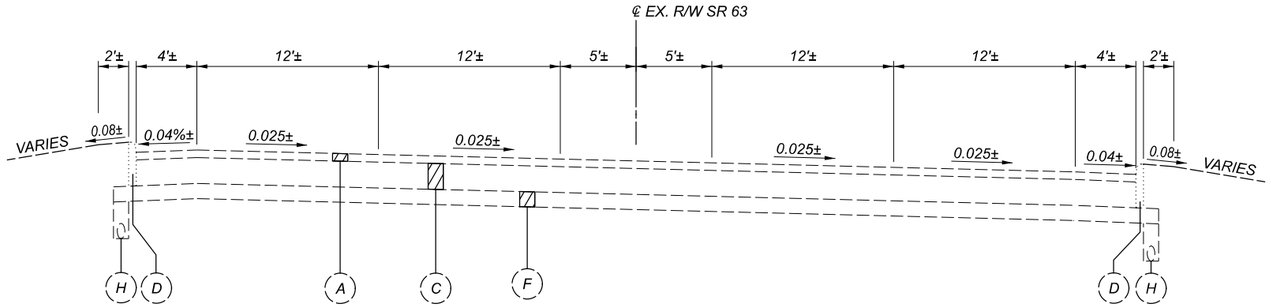
EXISTING LEGEND:

- (A) 3"± EXISTING ASPHALT CONCRETE
- (B) 8"± EXISTING ASPHALT CONCRETE
- (C) VARIABLE ASPHALT CONCRETE
- (D) CURB, TYPE 4-C
- (E) 6"± AGGREGATE BASE
- (F) VARIABLE AGGREGATE BASE
- (G) GUARDRAIL, TYPE 5
- (H) 6" PIPE UNDERDRAIN

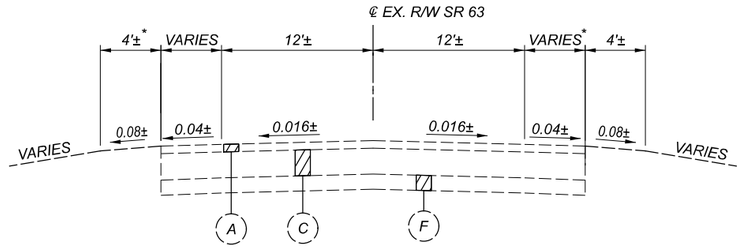
PROPOSED LEGEND:

1. ITEM 442 - 1½" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
2. ITEM 407 - NON-TRACKING TACK COAT *
3. ITEM 442 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5" MM, TYPE A, (446)
4. ITEM 301 - 5" ASPHALT CONCRETE BASE, PG64-22, (449)
5. ITEM 304 - 6" AGGREGATE BASE
6. ITEM 204 - PROOF ROLLING
7. ITEM 206 - CEMENT STABILIZED SUBGRADE, 14" DEEP
8. ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 4
9. ITEM 659 - SEEDING AND MULCHING
10. NOT USED
11. ITEM 606 - GUARDRAIL, TYPE MGS
12. ITEM 605 - 6" BASE PIPE UNDERDRAIN
13. ITEM 605 - 6" SHALLOW PIPE UNDERDRAIN
14. ITEM 204 - GRANULAR MATERIAL, TYPE C
15. ITEM 204 - GEOTEXTILE FABRIC
16. ITEM 442 - ANTI-SEGREGATION EQUIPMENT
17. ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), LEVELLING
18. ITEM 872 - VOID REDUCING MEMBRANE (VRAM)
19. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (3.25")
20. CAST-IN PLACE RETAINING WALL
21. ITEM 204 - EXCAVATION OF SUBGRADE, 14" DEEP
22. ITEM 204 - SUBGRADE COMPACTION

* = APPLICATION RATE IS ESTIMATED AT 0.06 GAL./SY FOR NEW ASPHALT AND ESTIMATED AT 0.09 GAL./SY FOR MILLED ASPHALT SURFACES, REFER TO TABLE CMS 407.06.

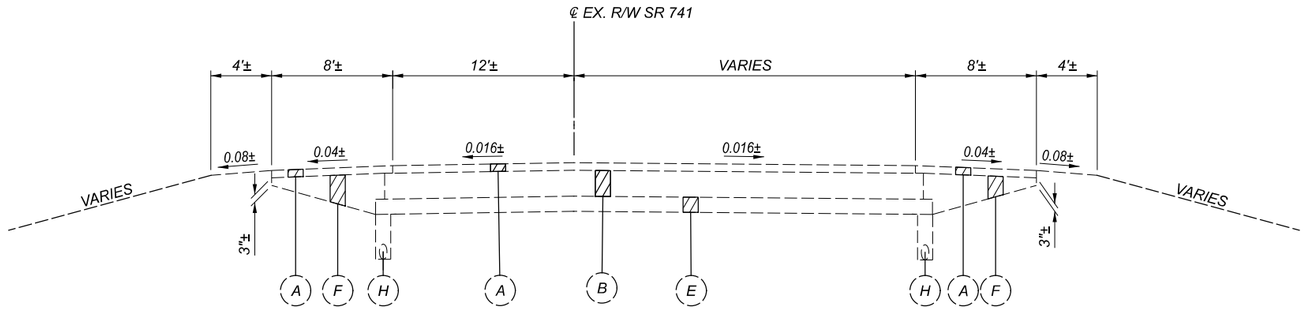


SUPERELEVATED SECTION - SR 63

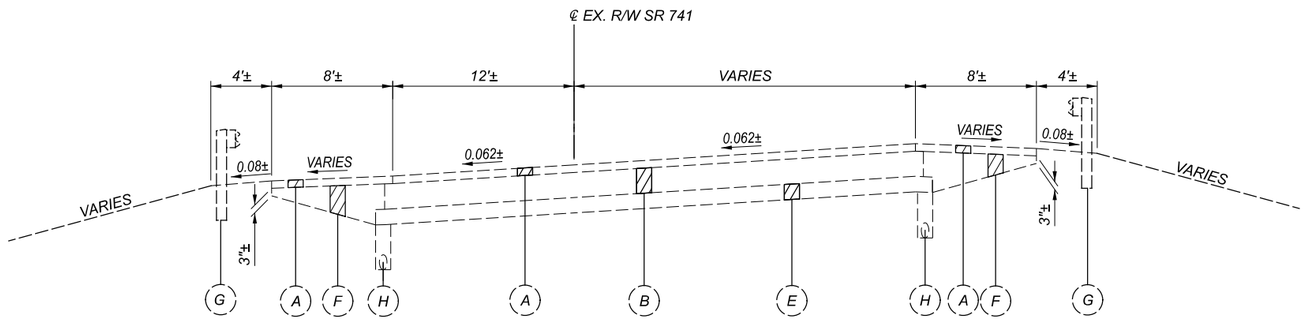


NORMAL SECTION - SR 63

* = EXISTING SHOULDER WIDTH VARIES THROUGH OUT THE PROJECT AREA AT SOME LOCATION IT IS 4'±, SOME AREAS IT IS 8'± AND SOME ARES IT IS 2'±



NORMAL SECTION - SR 741



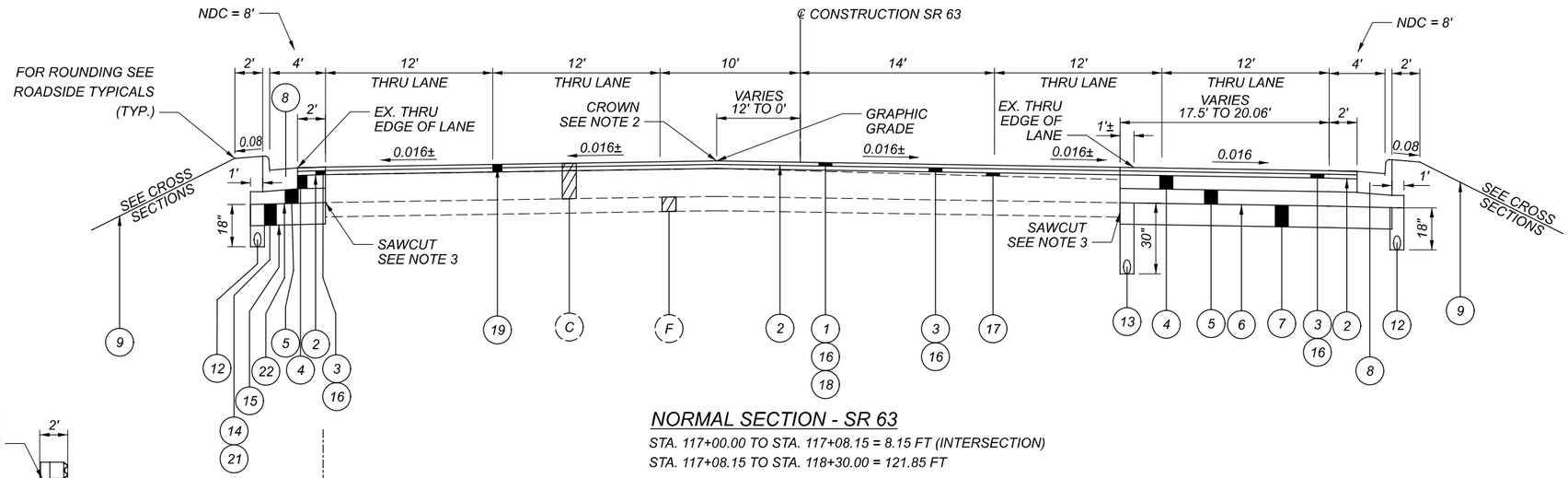
SUPERELEVATED SECTION - SR 741

EXISTING TYPICAL SECTIONS

DESIGN AGENCY	JACOBS
DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	5
TOTAL	436

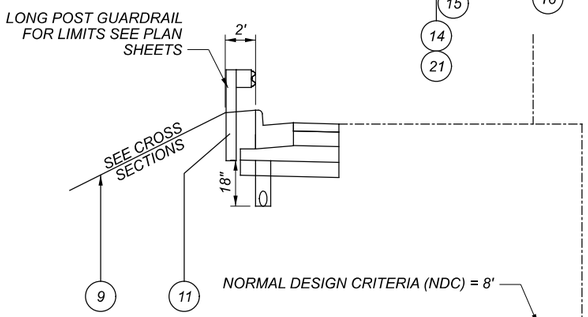
WAR-63-0.83

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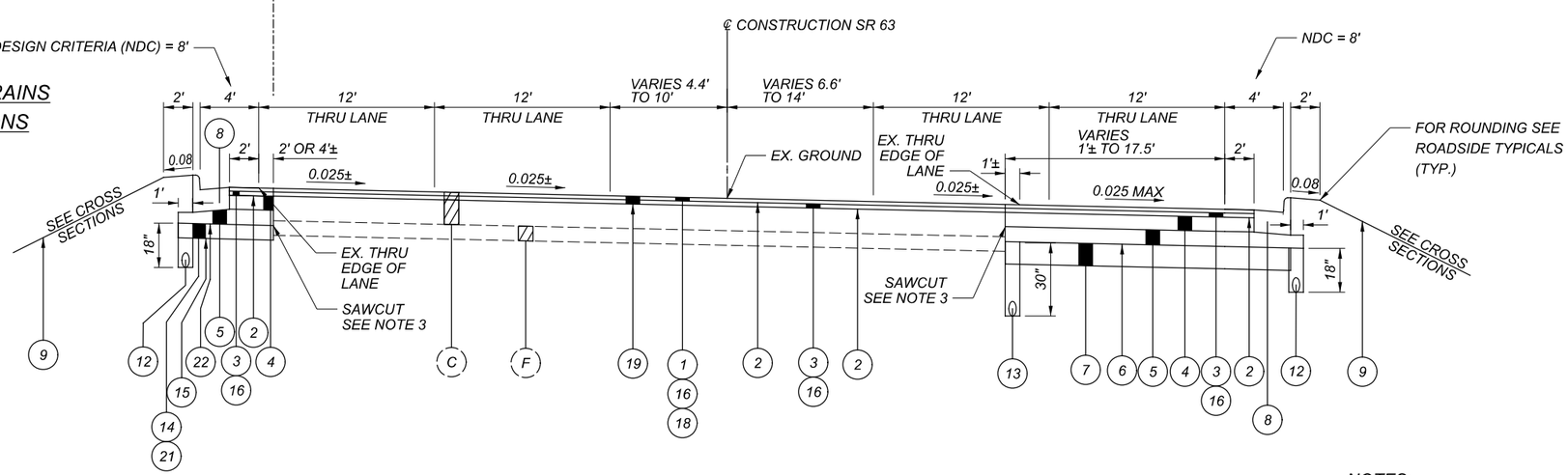


NORMAL SECTION - SR 63

STA. 117+00.00 TO STA. 117+08.15 = 8.15 FT (INTERSECTION)
STA. 117+08.15 TO STA. 118+30.00 = 121.85 FT



PLACEMENT OF UNDERDRAINS AT GUARDRAIL LOCATIONS



SUPERELEVATED SECTION - SR 63

STA. 107+16.75 TO STA. 115+63.53 = 846.78 FT
STA. 115+63.53 TO STA. 117+00.00 = 136.47 FT (INTERSECTION)

NOTES:

1. *FOR LEGEND, SEE SHEET NO. 5*
2. *FOR CROWN TRANSITION, SEE SHEET NO. 295*
3. *LOCATE SOUND PAVEMENT EDGES, AND CUT AND TRIM TO A NEAT LINE. REPAIR AND RESTORE DAMAGE CAUSED BY THE EQUIPMENT OR METHODS. COST OF CUTTING, TRIMMING, AND DISPOSAL SHALL BE INCLUDED UNDER ITEM 203 EXCAVATION.*

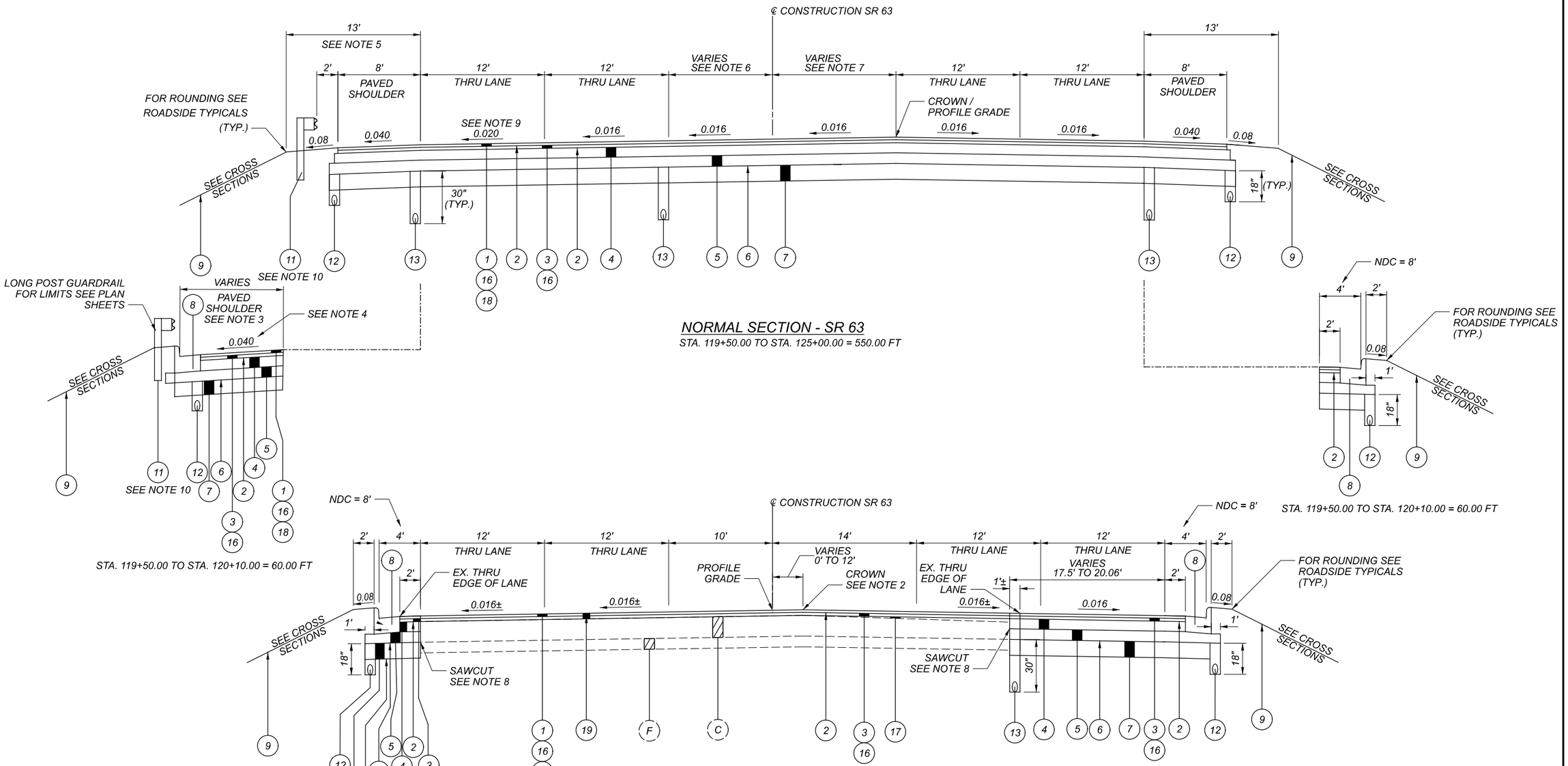
TYPICAL SECTIONS - SR 63

DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	6
TOTAL	436

WAR-63-0.83

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pw:\\ProjectWiseAMER.jacobs.com:DEN0003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121400-Engineering\Roadway\Sheets\112121_GY002.dgn



NORMAL SECTION - SR 63

STA. 119+50.00 TO STA. 125+00.00 = 550.00 FT

NORMAL SECTION - SR 63

STA. 118+30.00 TO STA. 119+50.00 = 120.00 FT

PLACEMENT OF UNDERDRAINS AT GUARDRAIL LOCATIONS

NOTES:

1. FOR LEGEND, SEE SHEET NO. 5
2. FOR CROWN TRANSITION, SEE SHEET NO. 295
3. VARIES FROM 4.00' AT STA. 119+10.00 TO 8.00' AT STA. 120+10.00
4. VARIES FROM 0.016 STA. 119+50.00 TO 0.04 AT STA. 120+00.00
5. VARIES FROM 6.50' STA. 119+10.00 TO 10.50' AT STA. 120+10.00
   VARIES FROM 10.50' AT STA. 120+10.00 TO 13.00' AT STA. 120+50.00
   13.00' FROM STA. 120+50 TO STA. 125+00.00
6. VARIES FROM 10.00' AT STA. 119+50.00 TO 0.00' AT STA. 125+00.00
7. VARIES FROM 14.00' AT STA. 119+50.00 TO 12.00' AT STA. 125+00.00
8. LOCATE SOUND PAVEMENT EDGES, AND CUT AND TRIM TO A NEAT LINE. REPAIR AND RESTORE DAMAGE CAUSED BY THE EQUIPMENT OR METHODS. COST OF CUTTING, TRIMMING, AND DISPOSAL SHALL BE INCLUDED UNDER ITEM 203 EXCAVATION.
9. CROSS SLOPE VARIES FROM 0.016 AT STA. 119+50.00 TO 0.020 AT STA. 119+75.00
10. SEE PLAN SHEETS FOR GUARDRAIL LIMITS

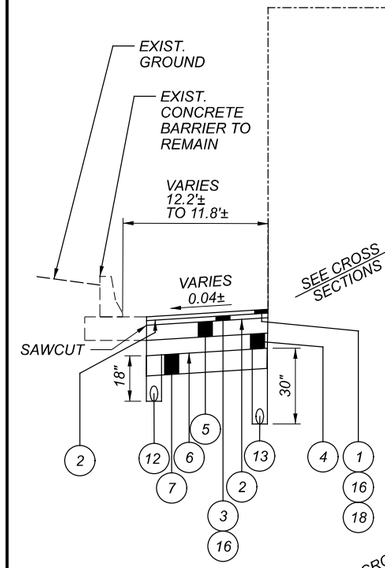
TYPICAL SECTIONS - SR 63

WAR-63-0.83

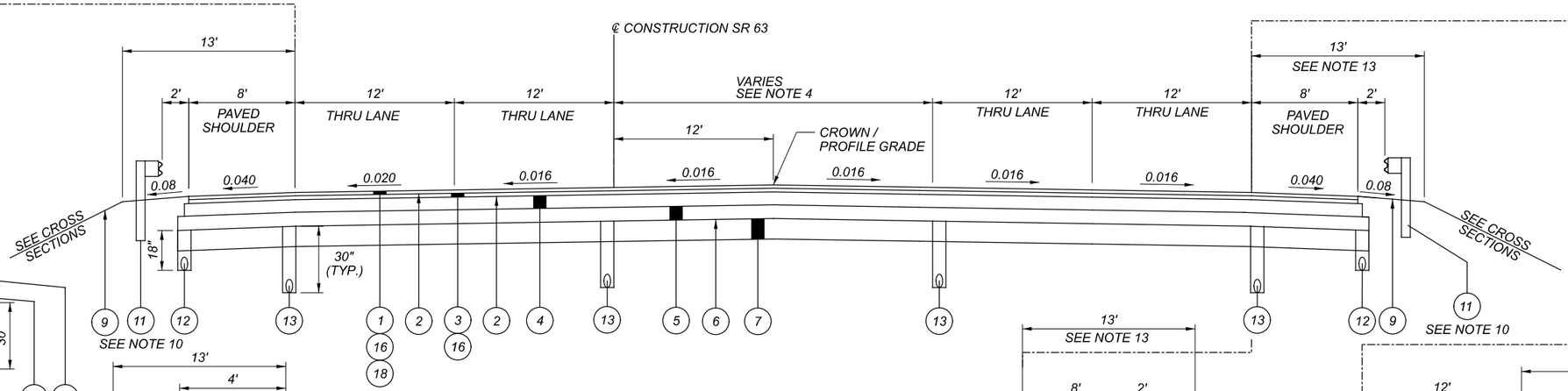
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pw:\\ProjectWiseAMER.jacobs.com:DEN\003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GY003.dgn

DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	7
TOTAL	436



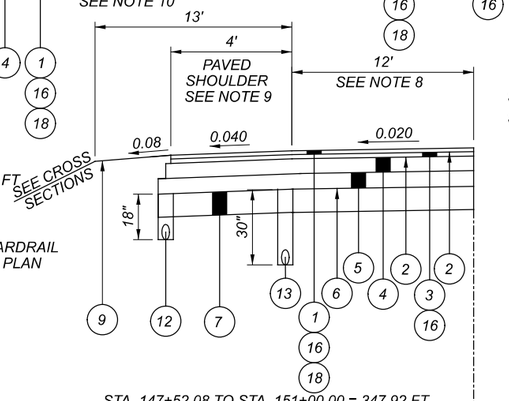
STA. 223+91.83 TO STA. 226+84.04 = 292.21 FT



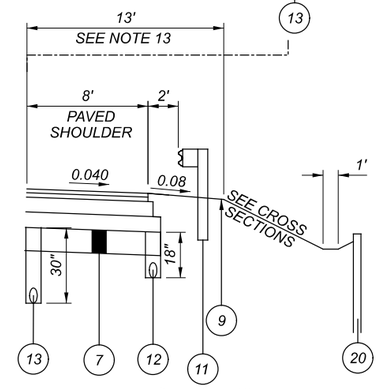
NORMAL SECTION - SR 63

STA. 215+65.00 TO STA. 228+57.91 = 1292.91 FT

STA. 228+57.91 TO STA. 229+77.15 = 119.24 FT (SAW CUT AT SR 741 INTERSECTION)

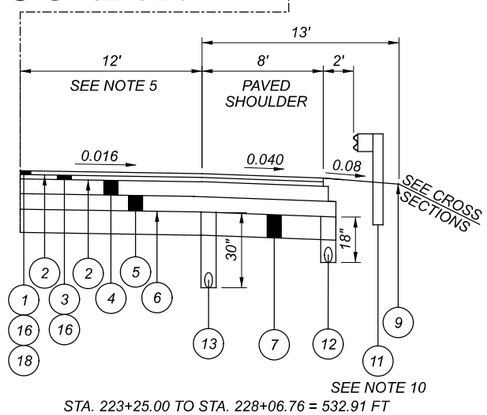


STA. 147+52.08 TO STA. 151+00.00 = 347.92 FT



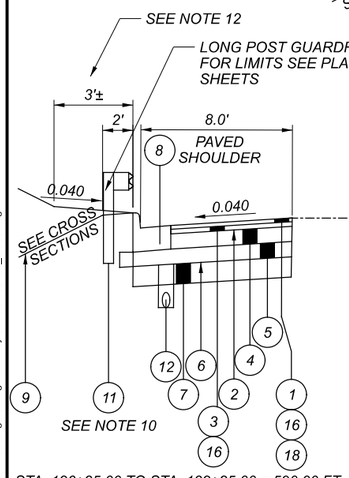
SEE NOTE 10

STA. 220+00.00 TO STA. 222+50.00 = 250.00 FT

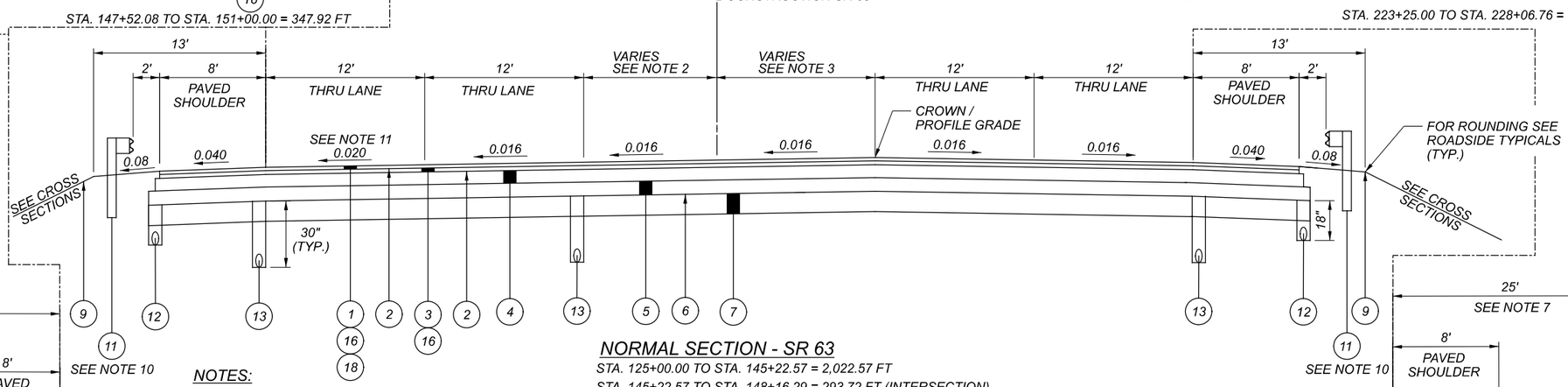


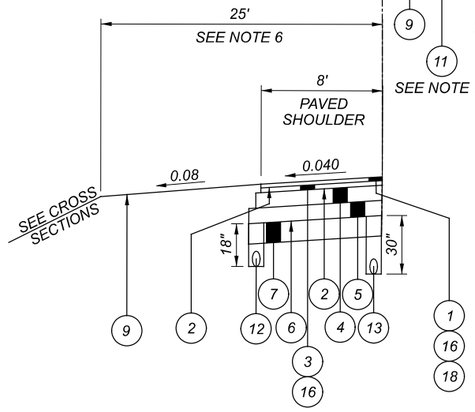
SEE NOTE 10

STA. 223+25.00 TO STA. 228+06.76 = 532.91 FT



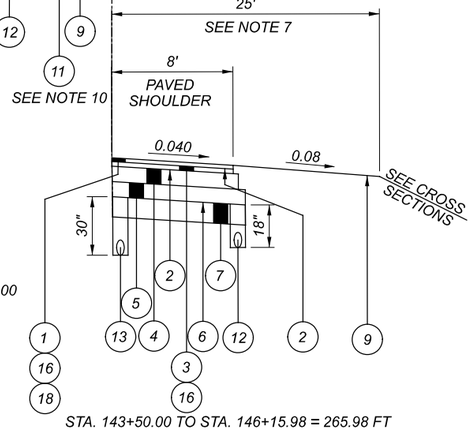
STA. 126+35.00 TO STA. 132+25.00 = 590.00 FT





STA. 182+29.02 TO STA. 185+25.00 = 295.98 FT

STA. 207+11.38 TO STA. 210+00.00 = 288.62 FT



STA. 143+50.00 TO STA. 146+15.98 = 265.98 FT

STA. 178+00.00 TO STA. 181+35.02 = 335.02 FT

STA. 203+50.00 TO STA. 206+14.78 = 264.78 FT

NORMAL SECTION - SR 63

STA. 125+00.00 TO STA. 145+22.57 = 2,022.57 FT

STA. 145+22.57 TO STA. 148+16.29 = 293.72 FT (INTERSECTION)

STA. 148+16.29 TO STA. 215+65.00 = 6,748.71 FT

NOTES:

1. FOR LEGEND, SEE SHEET NO.5
2. 0' FROM STA. 125+00.00 TO STA. 134+75.00
   VARIES FROM 0' AT STA. 134+75.00 TO 12' AT STA. 141+35.00
   12' FROM STA. 141+35.00 TO STA. 152+35.00
   VARIES FROM 12' AT STA. 152+35.00 TO 0' AT STA. 158+95.00
   0' FROM STA. 158+95.00 TO STA. 215+65.00
3. 12' FROM STA. 125+00.00 TO STA. 158+50.00
   VARIES FROM 12' AT STA. 158+50.00 TO 0' AT STA. 165+10.00
   0' FROM 165+10.00 TO STA.170+50.00
   VARIES FROM 0' AT STA. 170+50.00 TO 12' AT STA. 177+10.00
   12' FROM STA. 177+10.00 TO 215+65.00
4. VARIES FROM 12' AT STA. 215+65.00 TO 24' AT STA. 222+25.00
   24' FROM STA. 222+25.00 TO STA. 229+77.15
5. VARIES FROM 0' AT STA. 223+25.00 TO 12' AT STA. 223+75.00
6. VARIES FROM 25' AT STA. 184+75.00 TO 13' AT STA. 185+25.00
   VARIES FROM 25' AT STA. 209+50.00 TO STA. 210+00.00
7. VARIES FROM 13' AT STA. 143+50.00 TO 25' AT STA. 144+00.00
   VARIES FROM 13' AT STA. 178+00.00 TO 25' AT STA. 178+50.00
   VARIES FROM 13' AT STA. 203+50.00 TO STA. 204+00.00
8. VARIES FROM 12' AT STA. 150+50.00 TO 0' AT STA. 151+00.00
9. VARIES FROM 4' AT STA. 150+50.00 TO 8' AT STA. 151+00.00
10. SEE PLAN SHEETS FOR GUARDRAIL LIMITS
11. CROSS SLOPE VARIES FROM 0.020 AT STA. 164+85.00 TO 0.016 AT STA. 165+10.00
    CROSS SLOPE 0.016 AT STA. 165+10.00 TO STA. 176+85.00
    CROSS SLOPE VARIES FROM 0.016 AT STA. 176+85 TO 0.020 AT STA. 177+10.00
12. WIDTH VARIES FROM 2' AT STA. 128+50.00 TO 3' AT STA. 129+00.00
    3' FROM STA. 129+00.00 TO STA. 132+00.00
    WIDTH VARIES FROM 3' AT STA. 132+00.00 TO 5' AT STA. 132+50.00
13. WIDTH VARIES FROM 13' AT STA. 219+50.00 TO 10' AT STA. 220+00.00
    10' FROM STA. 220+00.00 TO STA. 222+50.00
    WIDTH VARIES FROM 10' AT STA. 222+50.00 TO 13' AT STA. 223+00.00

TYPICAL SECTIONS - SR 63

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:44:13 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GY004.dgn

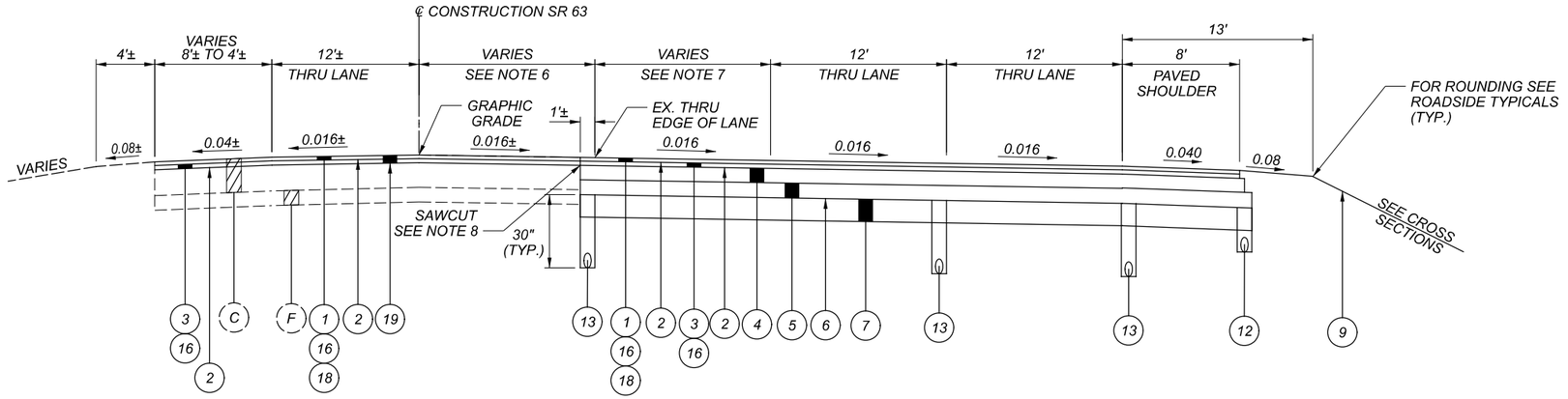
DESIGN AGENCY
JACOBS

DESIGNER
MJA

REVIEWER
RN 08/22/23

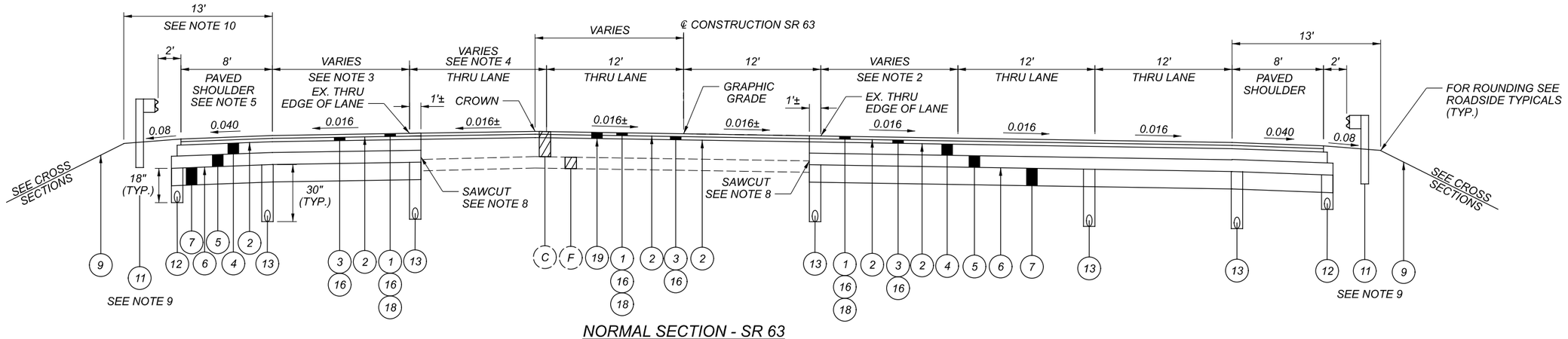
PROJECT ID
112121

SHEET 8 TOTAL 436



NORMAL SECTION - SR 63

STA. 237+23.52 TO STA. 245+15.21 = 791.69 FT



NORMAL SECTION - SR 63

STA. 229+77.15 TO STA. 231+57.29 = 180.14 (SR 741 INTERSECTION)
STA. 231+57.29 TO STA. 237+23.52 = 566.23 FT

NOTES:

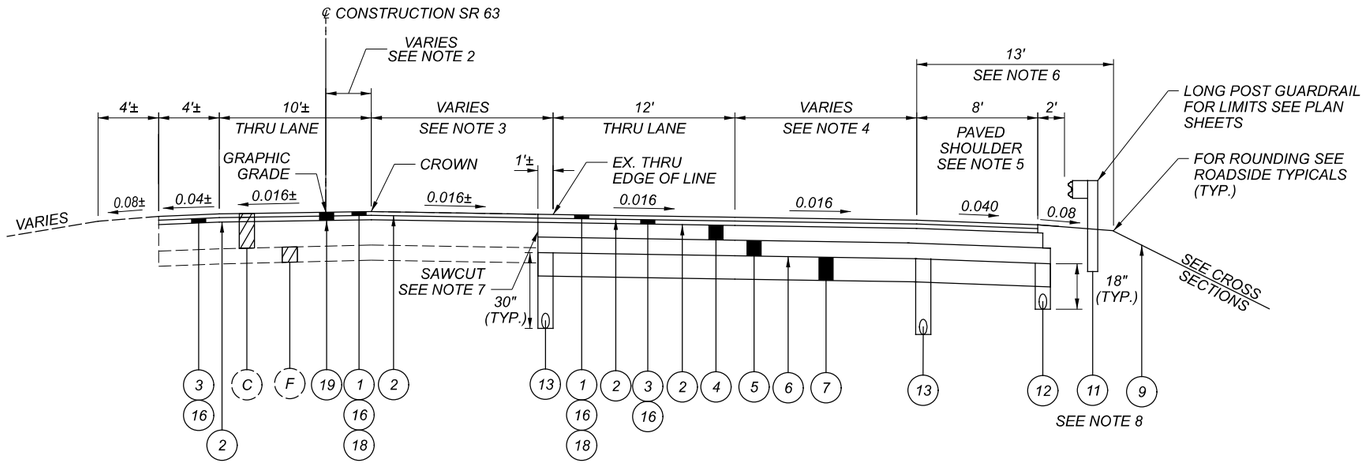
1. FOR LEGEND, SEE SHEET NO. 5
2. 12' AT STA. 231+57.29 TO STA. 233+09.37
   VARIES FROM 12' AT STA. 233+509.37 TO 5.21' AT STA. 237+23.52
3. 12' AT STA. 231+57.29 TO STA. 235+50.00
   VARIES FROM 12' AT STA. 235+50.00 TO 0' AT STA. 236+00.00
4. 12' AT STA. 231+57.29 TO STA. 237+00.00
   VARIES FROM 12' AT STA. 237+00.00 TO 6.35' AT 237+23.52
5. VARIES FROM 8' AT STA. 237+00.00 TO 9.5'± AT STA. 237+23.52
6. 12' FROM STA. 237+23.52 TO STA. 240+41.77
   VARIES FROM 12' AT STA. 240+41.77 TO 4.75' AT STA. 245+15.21
7. VARIES FROM 5.21' AT STA. 237+23.52 TO 0' AT STA. 240+41.77
8. LOCATE SOUND PAVEMENT EDGES, AND CUT AND TRIM TO A NEAT LINE. REPAIR AND RESTORE DAMAGE CAUSED BY THE EQUIPMENT OR METHODS. COST OF CUTTING, TRIMMING, AND DISPOSAL SHALL BE INCLUDED UNDER ITEM 203 EXCAVATION.
9. SEE PLAN SHEETS FOR GUARDRAIL LIMITS
10. WIDTH VARIES FROM 13' AT STA. 233+50.00 TO 11' AT STA. 234+00.00
    11' FROM SAT. 234+00 TO STA. 234+50.00
    WIDTH VARIES FROM 11' AT STA. 234+50.00 TO 16' AT STA. 235+00.00
    16' FROM STA. 235+00.00 TO STA. 235+50.00
    WIDTH VARIES FROM 16' AT STA. 235+50.00 TO 13' AT STA. 236+00.00

TYPICAL SECTIONS - SR 63

DESIGN AGENCY: JACOBS
DESIGNER: MJA
REVIEWER: RN 08/22/23
PROJECT ID: 112121
SHEET 9 TOTAL 436

WAR-63-0.83

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NORMAL SECTION - SR 63

STA. 245+15.21 TO STA. 254+30.00 = 914.79 FT

NOTES:

1. FOR LEGEND, SEE SHEET NO. 5
2. VARIES FROM 0' AT STA. 245+15.21 TO 2.3'± AT STA. 254+30.00
3. VARIES FROM 4.75' AT STA. 245+15.21 TO 1.2'± AT STA. 250+85.25
   VARIES FROM 1.2''± AT STA. 250+85.25 TO 2.3'± AT STA. 254+30.00
4. 12' FROM STA. 245+15.21 TO STA. 246+29.37
   VARIES FROM 12' AT STA. 246+29.37 TO 0' AT STA. 252+89.37
5. VARIES FROM 8' AT STA. 252+85.00 TO 2.5'± AT STA. 254+30.00
6. VARIES FROM 13' AT STA. 252+85.00 TO 2.5'± AT STA. 254+30.00
7. LOCATE SOUND PAVEMENT EDGES, AND CUT AND TRIM TO A NEAT LINE. REPAIR AND RESTORE DAMAGE CAUSED BY THE EQUIPMENT OR METHODS. COST OF CUTTING, TRIMMING, AND DISPOSAL SHALL BE INCLUDED UNDER ITEM 203 EXCAVATION.
8. SEE PLAN SHEETS FOR GUARDRAIL LIMITS

TYPICAL SECTIONS - SR 63

DESIGN AGENCY
JACOBS

DESIGNER
MJA

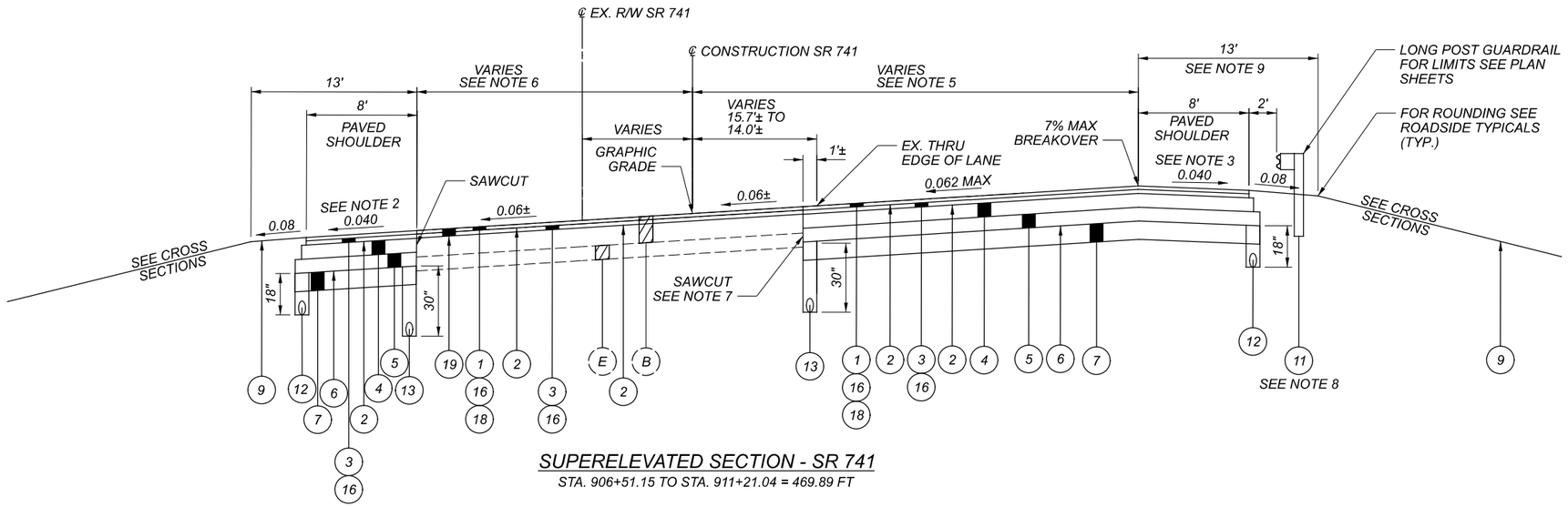
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 10 | TOTAL 436

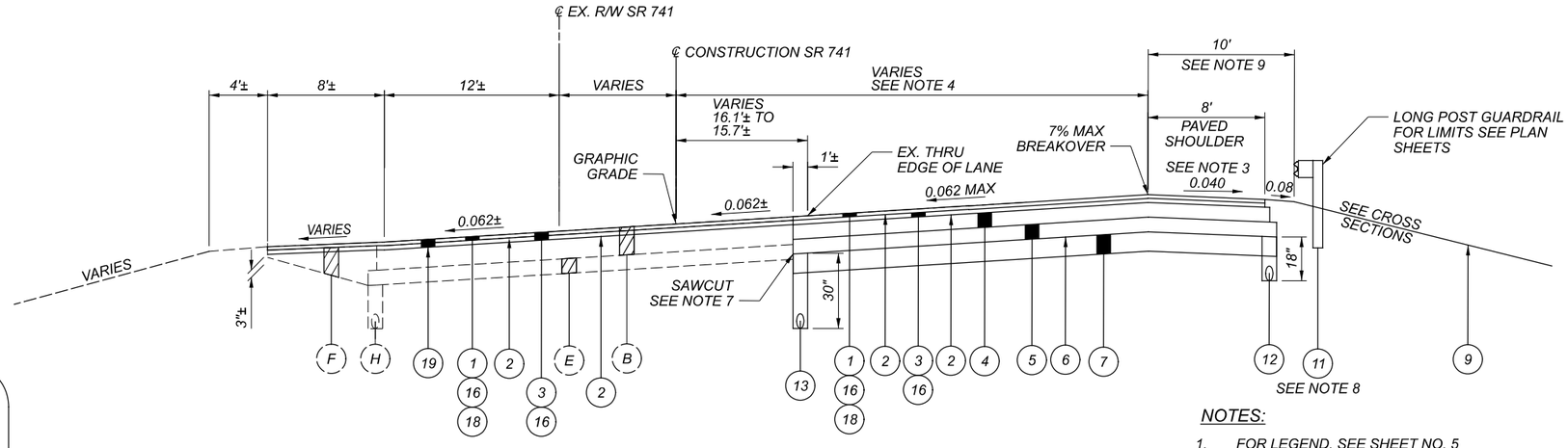
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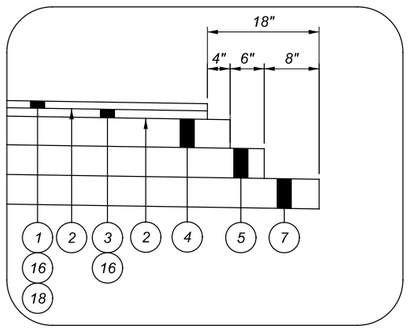
SUPERELEVATED SECTION - SR 741

STA. 906+51.15 TO STA. 911+21.04 = 469.89 FT



SUPERELEVATED SECTION - SR741

STA. 903+65.09 TO STA. 906+51.15 = 286.06 FT



TYPICAL ASPHALT BASE STEP DETAIL

NOTES:

1. FOR LEGEND, SEE SHEET NO. 5
2. 0.040 OR RATE OF SUPERELEVATION, WHICHEVER IS GREATER
3. 0.040 OR AS SHOWN OF SUPERELEVATION TABLES, SEE SHEET NO.
4. VARIES FROM 16.1′± AT STA. 903+65.09 TO 20.60′ AT STA. 905+50.00
   VARIES FROM 20.60′ AT STA. 905+50.00 TO 32.01′ AT STA. 906+00.00
   VARIES FROM 32.01′ AT STA. 906+00.00 TO 31.60′ AT STA. 906+51.15
5. VARIES FROM 31.60′ AT STA. 906+51.15 TO 36.00′ AT STA. 911+21.04
6. VARIES FROM 16.4′± AT STA. 906+51.15 TO 13.10′ AT STA. 910+49.05
   VARIES FROM 13.10′ AT STA. 910+49.05 TO 20.39′ AT STA. 911+21.04
7. LOCATE SOUND PAVEMENT EDGES, AND CUT AND TRIM TO A NEAT LINE. REPAIR AND RESTORE DAMAGE CAUSED BY THE EQUIPMENT OR METHODS. COST OF CUTTING, TRIMMING, AND DISPOSAL SHALL BE INCLUDED UNDER ITEM 203 EXCAVATION.
8. SEE PLAN SHEETS FOR GUARDRAIL LIMITS
9. GRADED SHOULDER IS 10′ FROM STA. 903+65.09 TO STA. 910+25.00, VARIES FROM 10′ AT STA. 910+25.00 TO 13.00′ AT STA. 910+50.00

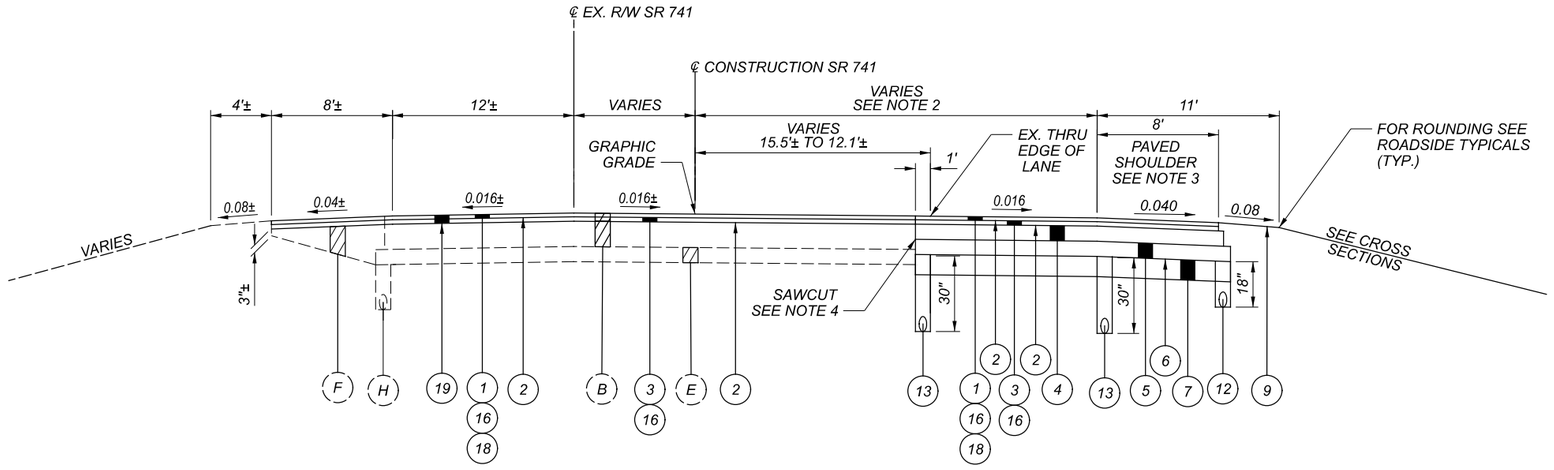
TYPICAL SECTIONS - SR 741

DESIGN AGENCY
JACOBS

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 11 TOTAL 436

WAR-63-0.83

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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A182I00 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GY007.dgn



NORMAL SECTION - SR 741

STA. 911+21.04 TO STA. 913+55.07 = 234.03 FT (INTERSECTION)
STA. 913+55.07 TO STA. 927+15.77 = 1360.70 FT

NOTES:

1. FOR LEGEND, SEE SHEET NO. 5
2. VARIES FROM 44.32' AT STA. 913+55.07 TO 36.00' AT 914+38.29
   36' FROM STA. 914+38.29 TO STA. 918+50.00
   VARIES FROM 36' AT 918+50.00 TO 12' AT STA. 925+10.00
   12' FROM STA. 925+10.00 TO STA. 926+00.00
   VARIES 12' AT STA. 926+00 TO 13.1'± AT STA. 927+15.77
3. VARIES FROM 8' AT STA. 916+48.77 TO 4' AT STA. 917+48.77
   4' FROM STA. 917+48.77 TO STA. 926+00.00
   VARIES FROM 4' AT STA. 926+00.00 TO 4.7'± AT STA. 927+15.77
4. LOCATE SOUND PAVEMENT EDGES, AND CUT AND TRIM TO A NEAT LINE. REPAIR AND RESTORE DAMAGE CAUSED BY THE EQUIPMENT OR METHODS. COST OF CUTTING, TRIMMING, AND DISPOSAL SHALL BE INCLUDED UNDER ITEM 203 EXCAVATION.

TYPICAL SECTIONS - SR 741

DESIGN AGENCY
JACOBS

DESIGNER
MJA

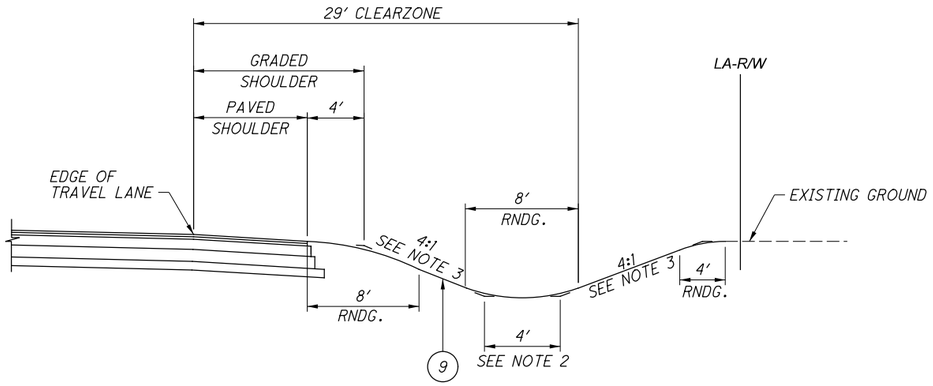
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 12 | TOTAL 436

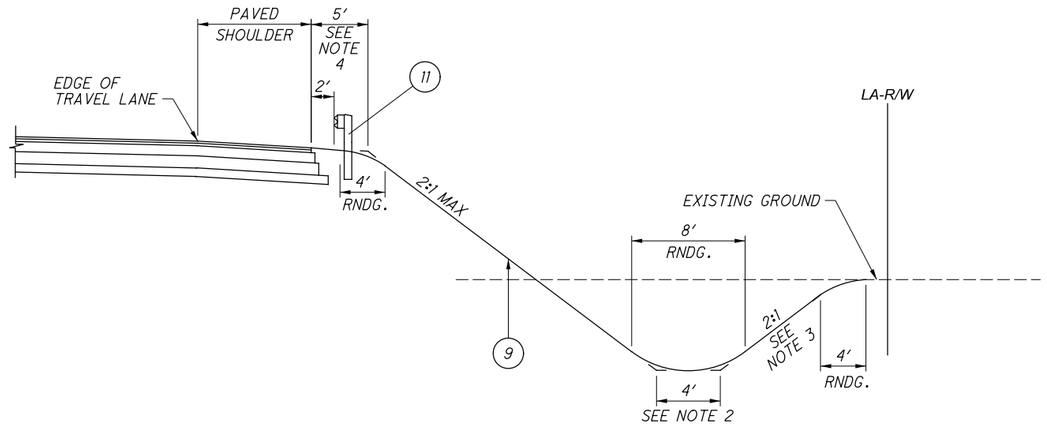
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MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:45:01 PM USER: Tahir.Sondo@jacobs.com
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CLEAR ZONE GRADING SECTION

OPPOSITE HAND ALSO, SEE CROSS SECTIONS



BARRIER GRADING

OPPOSITE HAND ALSO, SEE CROSS SECTIONS

NOTES:

1. *FOR LEGEND, SEE SHEET NO. 5*
2. *4′ DITCH WIDTH OR AS SHOWN ON CROSS SECTIONS*
3. *SLOPES AS NOTED OR AS SHOWN ON CROSS SECTIONS*
4. *5′ OR AS SHOWN ON CROSS SECTIONS*

TYPICAL SECTIONS - ROADSIDE SECTIONS

DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	13
TOTAL	436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:45:09 PM USER: Tahir.Sondo@jacobs.com
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ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

ELECTRIC
DUKE ELECTRIC TRANSMISSION
ATTENTION TIM MEYER
TIM.MEYER@DUKE-ENERGY.COM
WORK - (513) 287-1266

DUKE ELECTRIC DISTRIBUTION
7600 COLERAIN AVENUE
CINCINNATI, OH 45239
ATTENTION TROY DITTMER
TROY.DITTMER@DUKE-ENERGY.COM
WORK - (513) 514-8210
MOBILE (513) 504-0082

GAS
DUKE GAS
ATTENTION MARA JAMES PHILIP
617 TODHUNTER RD, MONROE, OH 45050
JAMES.MARA@DUKE-ENERGY.COM
MOBILE (513) 256-9041

TEXAS GAS
ATTENTION MICHAEL ECHOLS
3223 HART RD, LEBANON, OH 45036
MICHAEOL.ECHOLS@BWPIPELINES.COM
MOBILE (513) 649-9074

KNOX ENERGY COOP/UTILITY PIPELINE LTD
ATTENTION KYLE UNDERWOOD
KUNDERWOOD@UTILITYPIPELINELTD.COM
WORK (330) 498-9130, EXT. 310
MOBILE (740) 605 0713

KIRK SEELING
KSEELING@UTILITYPIPELINELTD.COM
WORK - (330) 498-9130, EXT. 405
MOBILE (937) 205-1778

BRIGHTSPEED/CENTURY LINK/LUMEN TECHNOLOGIES
ATTENTION JORDAN LANGSTON
20 NORTH MECHANICS ST
LEBANON, OH 45036
JORDAN.LANGSTON@BRIGHTSPEED.COM
WORK (513) 933-3502
MOBILE (513) 885-9444

CROWN CASTLE FIBER
ATTENTION- CRAIG SNELL
10188 INTERNATIONAL BLVD
CINCINNATI, OH 45246
CRAIG.SNELL@CROWNCASTLE.COM
WORK (216) 810-7165
MOBILE (513) 898-1595

WINDSTREAM
ATTENTION LEON TAYLOR
2165 STATE ROUTE 133 SOUTH
BLANCHESTER, OH 45107
LEON.TAYLOR@WINDSTREAM.COM
WORK (937) 725-5358

SPECTRUM (CHARTER COMMUNICATIONS)
ATTENTION PAUL BIRETTA
10920 KENWOOD ROAD
CINCINNATI, OHIO 45242
PAUL.BIRETTA@CHARTER.COM
WORK (513) 386-5808
MOBILE (513) 222-8130

INDEPENDENT FIBER NETWORK
ATTENTION SARAH EMANS
1720 WILLIPIE ST.
WAPAKONETA, OH 45895
SEMANS@CNITEAM.COM
WORK - (419) 739-3124
MOBILE (419) 905-6941

ALTAFIBER
ATTENTION BENJAMIN OTTEN
SPECIALIST - NETWORK DESIGN
BENJAMIN.OTTEN@ALTAFIBER.COM
MOBILE (513) 638-7003

UTILITIES (CONT.)

THE FISHEL COMPANY
ATTENTION TYLER SPARKS
7651 CENTER POINT 70 BLVD
DAYTON, OH 45424
TSSPARKS@TEAMFISHEL.COM
WORK (937) 233-2268
MOBILE (937) 308-3743

VERIZON
ATTENTION BRUCE TURKIEWICZ
8800 GOVERNORS HILL DRIVE
CINCINNATI, OH 45249
BRUCE.TURKIEWICZ@VERIZONWIRELESS.COM
MOBILE (254) 721-8977

WARREN COUNTY WATER & SEWER
ATTENTION CHRISTOPHER WOJNICZ
406 JUSTICE DRIVE
LEBANON, OH 45036
CHISTOPHER.WONJNICZ@CO.WARREN.OH.US
WORK (513) 695-1646

BUTLER COUNTY WATER AND SEWER
ATTENTION MARTHA SHELBY
130 HIGH STREET
HAMILTON, OH 45011
MARTHA.SHELBY@BCOHIO.US
WORK (513) 887-5699

OHIO DEPARTMENT OF TRANSPORTATION
ATTENTION LUCAS W. BRAUN
505 SOUTH SR 741
LEBANON, OH 45036
LUCAS.BRAUN@DOT.OHIO.GOV
WORK - (513) 933-6598

LEBANON CORRECTIONAL INSTITUTION
ATTENTION JEREMY HYER
ODRC OPERATION SUPPORT CENTER
4545 FISHER RD
COLUMBUS, OH 43228
JEREMY.HYER@ODRC.STATE.OH.US
WORK (614) 579-3926

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 4 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: ODOT VRS NETWORK (2011)
MONUMENT TYPE: 5/8" CAPPED IRON PINS

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS 80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE - SOUTH ZONE
COMBINED SCALE FACTOR: 1.000000
ORIGIN OF COORDINATE SYSTEM: 0,0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING. SEE PLAN SHEET NO. 5 FOR ADDITIONAL INFORMATION.

ITEM 204 - PROOF ROLLING 62 HOUR.

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF SECTION 203.05.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE SPECIAL BENCHING AS SHOWN ON THE CROSS-SECTIONS ON SR 63 AND SR 741.

SR 63

ITEM 203	EXCAVATION	980 CY
ITEM 203	EMBANKMENT	980 CY

SR 741

ITEM 203	EXCAVATION	1,143 CY
ITEM 203	EMBANKMENT	1,143 CY

ITEM 621 - RAISED PAVEMENT MARKER REMOVED

EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED BY THE CONTRACTOR. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO GENERAL SUMMARY:

ITEM 623 RAISED PAVEMENT MARKER REMOVED 370 EACH

ITEM 203, REMOVE MISC.: REMOVE BRICK PILLARS

THE CONTRACTOR SHALL REMOVE THE BRICK PILLAR, LAMP AND ASSOCIATED HARDWARE IN COMPLETE AND DISPOSE IT OFF. THE CONTRACTOR SHALL ALSO REMOVE THE OBJECT MARKER AND ANY CONCRETE PADS AROUND THE PILLAR.

ITEM 690, SPECIAL - LOCATE PRIVATE UTILITIES

THE CONTRACTOR SHALL HIRE A PRIVATE UTILITY COMPANY TO LOCATE ANY PRIVATE UTILITIES WITHIN THE PROPOSED RIGHT-OF-WAY OF THE PROJECT ALONG THE PRISON PROPERTY.

THE UTILITY COMPANY SHALL IDENTIFY AND LOCATE THE UTILITY AND PROVIDE A DETAIL REPORT TO THE CONTRACTOR. UPON REVIEW OF THE REPORT THE CONTRACTOR SHALL DETERMINE IF THE UTILITY IS IMPACTED BY CONSTRUCTION AND COORDINATE WITH THE ENGINEER FOR ACCEPTABLE DISPOSITION OF THE UTILITY.

ITEM 690, SPECIAL - LOCATE PRIVATE UTILITIES (CONT.)

IF THE DISPOSITION IS ACCEPTABLE THE ENGINEER WITH AUTHORIZE THE CONTRACTOR TO EXECUTE THE DISPOSITION AND WILL BE PAID SEPARATELY FOR THE DISPOSITION.

A LUMP SUM QUANTITY IS INCLUDED IN THE PLANS FOR THE CONTRACTOR TO HIRE A PRIVATE UTILITY COMPANY TO IDENTIFY, LOCATE AND DETERMINE IF THE UTILITY IS IMPACTED AND TO PROVIDE AN ACCEPTABLE DISPOSITION OF THE UTILITY.

ITEM 690 SPECIAL - LOCATE PRIVATE UTILITIES LS

ITEM 690, SPECIAL - MAINTAIN EXISTING PRIVATE SIGN

THE CONTRACTOR SHALL NOT DISTURB THE EXISTING PRIVATE SIGN LOCATED AT STA. 181+28.00 RT. IF REQUIRED THE CONTRACTOR HAS TO RE-ESTABLISH THE UNDERGROUND ELECTRIC CONNECTION TO THE EXISTING SIGN. THE CONTRACTOR SHALL COORDINATE WITH BOTH DUKE ENERGY AND ODRC REPRESENTATIVE TO ESTABLISH THE LOCATION TO INSTALL DISCONNECT SWITCH AND THE POWER DROP.

A LUMP SUM QUANTITY IS INCLUDED IN THE PLANS AND SHALL BE USED AS AUTHORIZED BY THE ENGINEER TO RE-ESTABLISH THE UNDERGROUND ELECTRIC CONNECTION TO THE EXISTING SIGN. THE PAYMENT INCLUDE FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND ALL INCIDENTALS TO COMPLETE THIS WORK.

ITEM 690 SPECIAL - MAINTAIN EXISTING PRIVATE SIGN LS

ITEM 202 - REMOVE MISC.: ABANDONED GAS LINE REMOVAL AND DISPOSAL

THE GAS COMPANIES RELOCATED THEIR GAS FACILITIES AND ABANDONED THE EXISTING GAS LINE IN PLACE. THE ABANDONED 6" GAS (DUKE ENERGY) RUNS ALONG THE LEFT SIDE AND 8" GAS (UTILITY PIPE LINE) RUNS ALONG THE RIGHT SIDE OF SR 63.

DUE TO THE PROFILE ADJUSTMENTS THE ABANDONED GAS LINES ARE EXPOSED AND ARE ABOVE THE FINISHED GRADE LINE. THE STATION LIMITS WHERE THE GAS LINES ARE EXPOSED ARE NOTED BELOW AND THE CONTRACTOR SHALL REMOVE THE LINES AND DISPOSE THEM OFF PRIOR TO THE STABILIZATION. POTHOLING OR EXCAVATION TO EXPOSE THE LIMITS SHALL BE INCIDENTAL TO THE WORK.

6" GAS LINE LEFT SIDE OF SR 63:
1) STA. 127+50.00 TO STA. 128+50.00, L = 100 FT
2) STA. 138+00.00 TO STA. 141+00.00, L = 300 FT
3) STA. 146+50.00 TO STA. 152+00.00, L = 550 FT
4) STA. 169+50.00 TO STA. 173+00.00, L = 350 FT
5) STA. 192+00.00 TO STA. 201+00.00, L = 900 FT

8" GAS LINE RIGHT SIDE OF SR 63
1) STA. 136+50.00 TO STA. 141+00.00, L = 450 FT
2) STA. 146+00.00 TO STA. 154+00.00, L = 800 FT
3) STA. 155+50.00 TO STA. 167+50.00, L = 1200 FT
4) STA. 169+00.00 TO STA. 174+50.00, L = 550 FT

ITEM 202 REMOVE MISC.: ABANDONED GAS LINE REMOVAL AND DISPOSAL 5200 FT

ITEM 202 - REMOVE MISC.: ABANDONED WATER SERVICE LINE AND DISPOSAL

THE EXISTING WATER SERVICE LINE RUNS FROM THE TURTLE CREEK CENTER TO ODOT OUTPOST ALONG THE LEFT SIDE OF SR 63. NO INFORMATION IS AVAILABLE REGARDING THE SIZE AND EXACT LOCATION OF THE LINE. THE LINE WILL BE ABANDONED ONCE THE NEW 4 INCH SERVICE LINE IS INSTALLED AS SHOWN ON THE PLANS.

DUE TO THE PROFILE ADJUSTMENTS THE ABANDONED LINE MAY BE EXPOSED AND MAY BE ABOVE THE FINISHED GRADE LINE. THE STATION LIMITS WHERE THE LINE MAY BE EXPOSED ARE NOTED BELOW AND THE CONTRACTOR SHALL REMOVE THE LINE AND DISPOSE THEM OFF PRIOR TO THE STABILIZATION. POTHOLING OR EXCAVATION TO EXPOSE THE LIMITS SHALL BE INCIDENTAL TO THE WORK.

WATER SERVICE LINE LEFT SIDE OF SR 63:
1) STA. 164+00.00 TO STA. 166+50.00, L = 250 FT
2) STA. 169+50.00 TO STA. 173+50.00, L = 400 FT

ITEM 202 REMOVE MISC.: ABANDONED WATER SERVICE LINE AND DISPOSAL 650 FT

GENERAL NOTES

DESIGN AGENCY
JACOBS

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 14 TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 9/5/2023 TIME: 7:48:40 PM USER: muma
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ITEM 878 - INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS

THE QUANTITY IS PROVIDED TO BE USED AS DIRECTED BY THE ENGINEER IN CONJUNCTION WITH SUPPLEMENTAL SPECIFICATION 878.

ITEM 878	INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	LS

FARM DRAINS

PROVIDE UNOBSTRUCTED OUTLETS TO ALL FARM DRAINS ENCOUNTERED DURING CONSTRUCTION. REPLACE EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY WITHIN THE (RIGHT OF WAY)(CONSTRUCTION) LIMITS WITH ITEM 611, CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

OUTLET EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES INTO THE ROADWAY.

DITCH USING ITEM 611, TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION IS ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. INTERCEPT LATERAL FIELD TILES WHICH CROSS THE ROADWAY WITH ITEM 611, TYPE E CONDUIT, AND CARRY IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS IS DETERMINED BY THE ENGINEER AND PAYMENT MADE ON FINAL MEASUREMENTS.

PROVIDE EROSION CONTROL PADS AT THE OUTLET END OF ALL FARM DRAINS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE.

PAYMENT FOR THE EROSION CONTROL PADS AND ANY NECESSARY BENDS OR BRANCHES IS INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

611 6" CONDUIT, TYPE B 100 FT.
611 6" CONDUIT, TYPE E 50 FT.
611 6" CONDUIT, TYPE F 100 FT.
601 ROCK CHANNEL PROTECTION TYPE C WITH FILTER 50 CU. YD.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST	8 EACH
659, TOPSOIL	13,334 CU. YD.
659, REPAIR SEEDING AND MULCHING	6,007 SQ. YD.
659, INTER-SEEDING	6,007 SQ. YD.
659, COMMERCIAL FERTILIZER	17 TON
659, LIME	25 ACRES
659, WATER	665 M. GAL.
659, MOWING	271 M. SQ.FT.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ITEM 690, SPECIAL – SETTLEMENT PLATFORMS

DESCRIPTION:
THIS ITEM CONSISTS OF FURNISHING, CONSTRUCTING, AND MAINTAINING SETTLEMENT PLATFORMS AND OBTAINING SETTLEMENT READINGS AS REQUIRED BY THE PLANS OR AS DIRECTED BY THE ENGINEER. AT THE OPTION AND EXPENSE OF THE CONTRACTOR, ADDITIONAL SETTLEMENT PLATFORMS MAY BE INSTALLED AT LOCATIONS APPROVED BY THE ENGINEER.

SETTLEMENT READINGS SHALL BE TAKEN WEEKLY DURING CONSTRUCTION AND DURING ANY SPECIFIED WAITING PERIOD. THE READINGS SHALL BE PLOTTED ON GRAPH PAPER PRESENTING DEFORMATION (ON THE NEGATIVE Y-AXIS) AND FILL HEIGHT (ON THE X-AXIS). A COPY OF EACH CUMULATIVE PLOT SHALL BE SENT TO THE DISTRICT GEOTECHNICAL ENGINEER AND THE OFFICE OF GEOTECHNICAL ENGINEERING, ATTENTION - GEOTECHNICAL DESIGN COORDINATOR, AFTER EACH SETTLEMENT READING IS RECORDED.

THE DEPARTMENT WILL CONSIDER VIBRATING WIRE SETTLEMENT MONITORING PLATFORMS IN LIEU OF THE CONVENTIONAL SETTLEMENT PLATFORMS. THE CONTRACTOR SHOULD PROVIDE DETAILS OF THE PROPOSED VIBRATING WIRE SETTLEMENT PLATFORMS AS WELL AS DESIGN DRAWINGS OF THE PROPOSED PLATFORM AND CABLING LAYOUT TO THE ENGINEER AT LEAST 30 DAYS PRIOR TO CONSTRUCTION. THE DEPARTMENT WILL REQUIRE 10 WORKING DAYS FOR REVIEW AND APPROVAL. THE DESIGN DRAWINGS SHOULD ILLUSTRATE THE PROPOSED SETTLEMENT VIBRATING WIRE SETTLEMENT PLATFORM LOCATIONS WITH ALL EXISTING AND PROPOSED SITE FEATURES TO VERIFY THE PROPOSED CABLING WILL NOT CONFLICT WITH EXISTING FACILITIES, PROPOSED FACILITIES OR UTILITIES. NO ADDITIONAL PAYMENT WILL BE PROVIDED IF THE CONTRACTOR ELECTS TO UTILIZE VIBRATING WIRE SETTLEMENT PLATFORMS.

MATERIALS:
SOUND LUMBER SUCH AS 3/4 INCH EXTERIOR GRADE PLYWOOD SHALL BE USED FOR THE BASE. THE PIPE SHALL BE 2-1/2" STANDARD BLACK PIPE WITH THREADED FITTINGS AS SHOWN ON THE PLANS. A STEEL PLATE 3'-0"x 3'-0"x1/8" MAY BE SUBSTITUTED FOR THE LUMBER, AT THE CONTRACTOR'S OPTION.

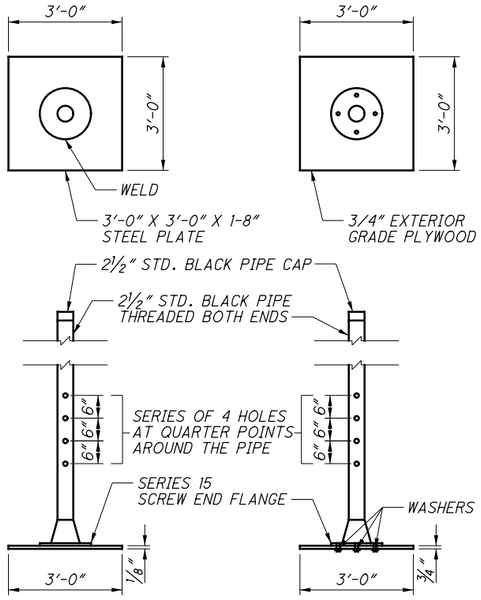
CONSTRUCTION REQUIREMENTS:
THE 36"x36" PLATFORM SHALL BE CONFORM TO THE DETAILS SHOWN ON THE PLANS. THE SETTLEMENT PLATFORM SHALL BE SET ON A LEVEL SURFACE. THE PIPES SHALL BE FIRMLY SECURED TO THE PLATFORM AND SHALL BE MAINTAINED IN PLUMB POSITION DURING THE PLACEMENT OF THE EMBANKMENT. PIPES SHALL BE MARKED AT INTERVALS BY THE CONTRACTOR TO FACILITATE MEASUREMENT OF THE DEPTH OF FILL. THE CONTRACTOR SHALL STOP WORK IN ANY LOCATION WHERE A SETTLEMENT PLATFORM HAS BEEN DISTURBED OR DAMAGED UNTIL THE NECESSARY CORRECTIONS OR REPLACEMENT HAS BEEN PERFORMED. PRIOR TO PAVING, THE TOP OF THE SETTLEMENT PLATFORM PIPE SHALL BE CUT OFF 2 FEET BELOW THE FINISHED SURFACE OF THE SUBGRADE OR TOPSOIL SURFACE, WHICHEVER IS APPLICABLE.

BASIS OF PAYMENT:
PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE PER EACH FOR "ITEM SPECIAL, SETTLEMENT PLATFORMS" WHICH IS COMPENSATED FOR CONSTRUCTION, MAINTAINING AND MONITORING THE SETTLEMENT PLATFORMS INCLUDING FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK. PAYMENT WILL NOT BE MADE FOR SETTLEMENT PLATFORMS WHICH BECOME USELESS BECAUSE OF DAMAGE INFLICTED BY THE CONTRACTOR'S OPERATIONS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM SPECIAL - SETTLEMENT PLATFORMS 2 EACH

WAITING PERIOD:
FROM STATION 220+89 TO 234+50 A SETTLEMENT WAITING PERIOD IS REQUIRED AFTER EMBANKMENT PLACEMENT TO THE DESIGN SUBGRADE LEVEL. THE ANTICIPATED EMBANKMENT WAITING PERIOD IS 30 DAYS. INCLUDE SPECIFIC ACTIVITIES IN THE CONSTRUCTION SCHEDULE FOR THE SETTLEMENT WAITING PERIOD. THE WAITING PERIOD SHALL NOT BE CONSIDERED TO BEGIN UNTIL ALL FILL LOADING HAS BEEN PLACED TO THE DESIGN SUBGRADE LEVEL. PLACEMENT OF THE AGGREGATE BASED, PAVING OF THE PATH AND OTHER CONSTRUCTION ITEMS IN FROM 220+89 TO 234+50 CANNOT BEGIN UNTIL SETTLEMENT WAITING PERIOD HAS BEEN TERMINATED BY THE ENGINEER. THE PLATFORM READINGS FOR OVERALL SETTLEMENT RATE AND MAGNITUDE AND THE WAITING PERIOD MAY BE TERMINATED PRIOR EARLY OR EXTENDED BASED ON THE SETTLEMENT MONITORING DATA. THE SETTLEMENT PERIOD CAN BE TERMINATED IF THE READINGS ILLUSTRATE ONE-EIGHT OF AN INCH OR LESS OF SETTLEMENT PER WEEK FOR TWO CONSECUTIVE WEEKS.



SETTLEMENT PLATFORM
NOT TO SCALE

NOTES:

1. SETTLEMENT PLATES SHALL BE PLACED AT THE FOLLOWING LOCATIONS AS SHOWN BELOW UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
   1) STA. 220+89 RT
   2) STA. 234+50 RT

2. CONTRACTOR HAS OPTION OF USING EITHER STEEL OR PLYWOOD PLATFORM BASE.

3. CONTRACTOR SHALL FURNISH MATERIALS AND LABOR TO EXTEND PIPE UP THROUGH ENTIRE FILL.

4. SETTLEMENT PLATFORMS SHALL BE ANCHORED BY STAKES DRIVEN AT EACH CORNER TO PREVENT OVERTURNING.

5. CLEARLY MARK THE VERTICAL PIPE IN 1 FT. ELEVATION INTERVALS FROM THE BOTTOM OF THE PLATFORM TO THE TOP OF THE PLATFORM. MAINTAIN ELEVATION DESIGNATION MARKS THROUGHOUT CONSTRUCTION.

ITEM 690, SPECIAL – CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION

ALL CONCRETE SHALL BE TESTED, ALL TESTING, INSPECTION AND QUALITY CONTROL FOR CONCRETE, NOT INCLUDED UNDER QC/QA PAY ITEMS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A CONCRETE TESTING CONSULTANT WITH PREVIOUS EXPERIENCE AND FAMILIARITY IN ODOT PROCEDURES. CONCRETE TESTING REQUIREMENTS AND CONCRETE TESTING DOCUMENTATION. AT LEAST 30 DAYS PRIOR TO CONCRETE PLACEMENT, SUBMIT TO THE ENGINEER FOR APPROVAL. THE PROPOSED CONCRETE TESTING CONSULTANT ALONG WITH THE RESUMES OF THE PROPOSED TESTING PERSONNEL.

TESTING CONCRETE FOR STRUCTURES AND PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE PERFORMED AS OUTLINED IN CMS 455.

THROUGH THE CONTRACTOR, THE CONSULTANT SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONCRETE PLACED IS IN ACCORDANCE WITH SPECIFICATIONS. SUCH WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND THE ODOT CONSTRUCTION INSPECTION MANUAL OF PROCEDURES FOR CONCRETE. THE CONCRETE CONSULTANT SHALL PROVIDE THE NECESSARY TRAINED TECHNICIAN(S), ALL EQUIPMENT, AND SHALL FURNISH THE ENGINEER WITH TWO (2) COPIES OF ALL TEST RESULTS WITHIN 24 HOURS AFTER COMPLETION OF CONCRETE PLACEMENT.

ITEM 690, SPECIAL – CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION (CONT.)

THE TECHNICIAN SHALL BE ACI LEVEL 1 CERTIFIED AND WILL BE REQUIRED TO DEMONSTRATE HIS/HER COMPETENCE AND EXPERIENCE LEVELS TO THE ENGINEER PRIOR TO BEGINNING WORK. THE ENGINEER WILL ORDER THE CONTRACTOR TO REPLACE ANY TECHNICIAN THAT IS NOT VERSED IN THE REQUIRED TESTING PROCEDURE.

THE TECHNICIAN SHALL VERBALLY NOTIFY THE PROJECT ENGINEER OF ANY FAILING TEST AND SHALL SUBMIT FOLLOW-UP WRITTEN NOTIFICATION TO THE ENGINEER OF REMEDIAL ACTION(S) TAKEN. TESTS SHALL BE TAKEN AS SPECIFIED WITHIN THE CMS, CONCRETE MANUAL OR APPROPRIATE SUPPLEMENTAL SPECIFICATION AS LISTED IN THE PROPOSAL GOVERNING THE PROJECT. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAKE IMMEDIATE CORRECTIONS OR ADJUSTMENTS TO THE CONCRETE MIX VIA DIRECT COMMUNICATION WITH THE CONCRETE SUPPLIER'S PLANT PERSONNEL TO MAINTAIN UNINTERRUPTED COMPLIANCE WITH THE SPECIFICATIONS UPON NOTIFICATION OF CONCRETE MIX NON-COMPLAINCE BY THE CONSULTANT TECHNICIAN. THE ENGINEER MAY REQUIRE MORE FREQUENT TESTING AS CONDITIONS WARRANT.

UPON COMPLETION OF DAILY CONCRETE PLACEMENT(S), THE CONCRETE CONSULTANT SHALL PROVIDE THE ENGINEER WITH DAILY TEST REPORTS. TE-45'S, INSPECTORS DAILY REPORT AND SUPPORTING DOCUMENTATION FOR EACH ITEM OF CONCRETE WORK PERFORMED SEPARATED BY MIX DESIGN. SUBSEQUENTLY, UPON COMPLETION OF AN ENTIRE CONCRETE SPECIFICATION ITEM, THE CONCRETE CONSULTANT SHALL ALSO PROVIDE THE ENGINEER WITH TWO (2) COPIES OF AN ADDITIONAL INSPECTION REPORT BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHICH CONTAINS THE TESTING-RESULTS SUMMARY FOR EACH ITEM BY CONTRACT REFERENCE NUMBER AND THE CONSULTANT'S CONCLUSIONS RELATIVE TO SPECIFICATION COMPLIANCE FOR ALL CONCRETE-TESTING WORK.

THE ENGINEER RESERVES THE RIGHT TO MAKE UNANNOUNCED QUALITY CONTROL TESTS TO VERIFY PROCEDURES USED AND RESULTS BEING OBTAINED BY THE CONTRACTOR.

THE CONCRETE TECHNICIAN SHALL WORK UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHO WILL MONITOR THE CONCRETE TEST RESULTS. THE FINAL INSPECTION REPORTS FOR EACH COMPLETED ITEM SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, CERTIFYING THAT ALL CONCRETE TESTS PROVIDED BY THE CONTRACTOR MET APPLICABLE CONTRACT REQUIREMENTS. A FINAL REPORT ISSUED BY THE CONSULTANT SHALL CONTAIN A CERTIFIED STATEMENT OF COMPLIANCE WITH THE SPECIFICATIONS AND ANY OTHER CONCLUSIONS REGARDING THE CONCRETE MATERIALS INCORPORATED INTO THE PROJECT. SUCH STATEMENT SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, AND, THE CONCRETE CONSULTANT SHALL BE REQUIRED TO ATTEND MONTHLY PROGRESS MEETING AS REQUIRED BY THE ENGINEER.

ADDITIONALLY, THE CONTRACTOR SHALL BE REQUIRED TO KEEP A POSTED LIST OF BEAM AND CYLINDER IDENTIFICATION NUMBERS FOR THE PURPOSE OF IDENTIFYING THE CORRESPONDING PLACEMENT LOCATION AND CONCRETE SPECIFICATION ITEM.

PAYMENT SHALL BE PAID AS LUMP SUM FOR ITEM SPECIAL MISC.: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION. THE ITEM WILL BE PAID FOR AS FOLLOWS:

UPON APPROVAL OF CONSULTANT	20%
PROGRESSIVE EQUIVALENT PAYMENTS	50%
UPON SUBMISSION OF FINAL REPORT	30%

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO GENERAL SUMMARY:

ITEM SPECIAL - CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION LS

ITEM 623 - PROVIDE ELECTRONIC INSTRUMENTATION

QUANTITIES ARE PROVIDED FOR ELECTRONIC INSTRUMENTATION AND TECHNICAL ASSISTANCE. THE CONTRACTOR SHALL USE THESE QUANTITIES AS DIRECTED BY THE ENGINEER.

ITEM 623	PROVIDE ELECTRONIC INSTRUMENTATION	LS
ITEM 623	TECHNICAL ASSISTANCE	8 HOURS

FENCE LENGTHS

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

GENERAL NOTES

DESIGN AGENCY
JACOBS

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 15 TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 9/5/2023 TIME: 7:48:51 PM USER: mumna
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ITEM 202 – REMOVAL MISC.: PVC FENCE FOR STORAGE

THIS ITEMS SHALL CONSIST OF CAREFULLY REMOVING THE PVC FENCE POST, RAILING, AND HARDWARE AS SHOWN ON THE PLANS. REMOVED ITEMS SHALL BE STORED ON THE PROJECT FOR SALVAGE BY (LEBANON CORRECTIONAL INSTITUTION).

REMOVED ITEMS SHALL BE DELIVERED TO:
AGENCY NAME, ATTN: JEREMY HYER
ODRC OPERATION SUPPORT CENTER
4545 FISHER RD, COLUMBUS, OH 43228
JEREMY.HYER@ODRC.STATE.OH.US, 614-579-3926

PAYMENT FOR THE ABOVE WORK SHALL BE PAID AT THE UNIT PRICE BID FOR ITEM 202, REMOVAL MISC.: PVC FENCE FOR STORAGE FT, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, MATERIALS NEEDED TO CAREFULLY REMOVE THE PVC FENCE POST, RAILING, AND HARDWARE.

ITEM 607 - GATE REBUILT, AS PER PLAN

CAREFULLY REMOVE AND RELOCATE FENCE GATE AND RELATED COMPONENTS. DO NOT DAMAGE THE GATE OR RELATED COMPONENTS. ANY NEW PARTS WHICH ARE NEEDED, AS DETERMINED BY THE ENGINEER, WILL BE SUPPLIED BY THE CONTRACTOR AT NO ADDITIONAL COST. GATE LOCATION TO BE CONFIRMED WITH THE ENGINEER PRIOR TO RELOCATION.

PAYMENT FOR THE ABOVE WORK SHALL BE PAID AT THE UNIT PRICE BID FOR ITEM 607, GATE REBUILT, AS PER PLAN EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, MATERIALS, AND HARDWARE NECESSARY TO SAFELY RELOCATE THE FENCE GATE AND RELATED COMPONENTS.

ITEM 607 – FENCE, MISC.: SECURITY FENCE

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING SECURITY FENCE AT THE LOCATIONS SPECIFIED IN THE PLANS. INSTALLATION AND MATERIAL SHALL BE IN ACCORDANCE WITH CMS 607 AND SCD F-1.1, EXCEPT AS NOTED BELOW AND SHOWN IN THE SECURITY FENCE DETAIL ON THIS SHEET, OR APPROVED EQUAL.

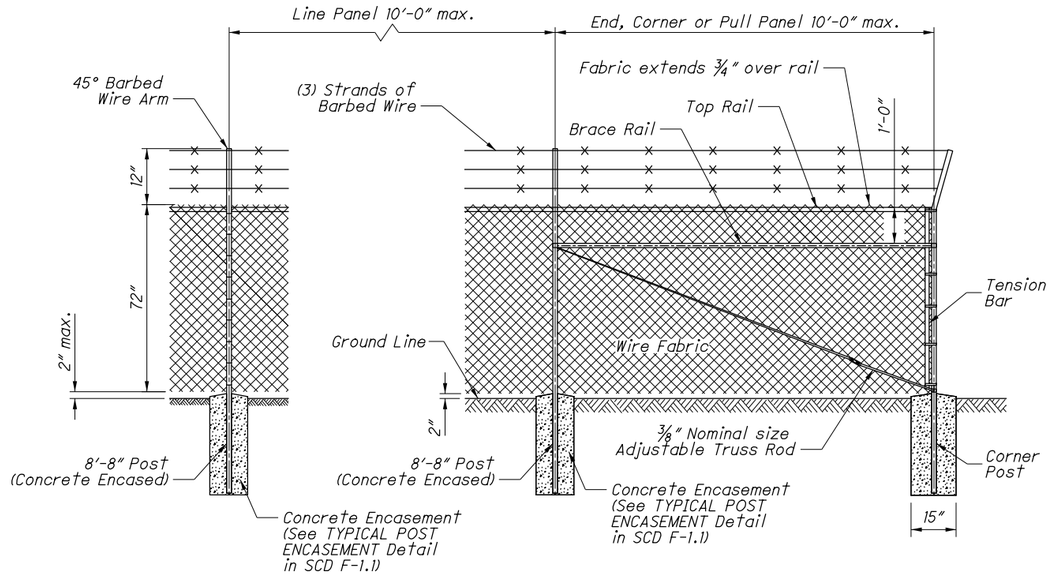
THE SECURITY FENCE FABRIC SHALL BE CHAIN LINK, 72" IN HEIGHT, HAVE A TOP RAIL, AND HAVE A 45° BARBED WIRE ARM FACING OUTWARD WITH 3 STRANDS OF BARBED WIRE.

CONTRACTOR SHALL INSTALL THE PROPOSED SECURITY FENCE PRIOR TO REMOVING THE EXISTING SECURITY FENCE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AND THE UNIT PRICE BID FOR ITEM 607, FENCE MISC.: SECURITY FENCE FT, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, MATERIALS, AND HARDWARE NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL SECURITY FENCE.

ITEM 205 – MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS, AS PER PLAN

OBTAIN SOIL SAMPLES AS OUTLINED IN SUPPLEMENTAL SPECIFICATION 1120 FOLLOWING EXCAVATION OR EMBANKMENT PLACEMENT OF THE DESIGN SUBGRADE LEVEL. THE SOIL SAMPLES FOR SUPPLEMENTAL 1120 TESTING ARE TO BE OBTAINED FROM THE ACTUAL SUBGRADE SOIL. SAMPLING OF THE SOILS OUTSIDE THE ACTUAL STABILIZATION LIMITS OR FROM A BORROW AREA IS PROHIBITED. THE CONSTRUCTION SCHEDULE SHALL INCLUDE SPECIFIC ACTIVITIES FOR SAMPLING AND TESTING OF THE SUBGRADE SOILS FOR ALL PHASES OR PARTIAL PHASES OF CONSTRUCTION. PERFORM THE MIX DESIGN PROCEDURE FOR EACH PHASE AS OUTLINED IN SUPPLEMENTAL 1120. DURING CONSTRUCTION, OBTAIN FIELD VERIFICATION SAMPLES FOR EACH PHASE OF CONSTRUCTION AND SUBMIT THE TEST RESULTS FOR EACH PHASE AS THE LABORATORY TESTING IS COMPLETE.



SECURITY FENCE DETAIL

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 317 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
OBSTRUCTION EVALUATION GROUP
10101 HILLWOOD PARKWAY
FORT WORTH, TX 76177
FAX: (817) 222-5920
HTTP://CEAAA.FAA.GOV

OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235
OHIO.AIRPORT.PROTECTION@DOT.OHIO.GOV

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT-OF-WAY (BOTH WITHIN AND OUTSIDE THE

PROTECTION OF RIGHT-OF-WAY LANDSCAPING (CONT.)

CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRICT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. EXCEPT AS INDICATED ON PLANS SHEETS, USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS, AS DEFINED ABOVE, WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

WATER WORKS NOTES

ALL WATER WORKS MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS AND THE STANDARD DETAILS OF THE WARREN COUNTY

WATER WORKS NOTES

DEPARTMENT OF WATER & SEWER SHALL GOVERN ALL WATER WORKS.

THE FOLLOWING STANDARD DETAILS OF THE WARREN COUNTY DEPARTMENT OF WATER & SEWER ARE INCLUDED IN THE PROJECT BY REFERENCE: W-2, W-3, W-4, W-7, W-14, W-15D, W-17, W-19, W-20, W-23, W-26A, W-26B, WG-1A, WG-1B, AND WG-2.

ITEM 690, SPECIAL - WATER WORK, MISC.: LARGE DOMESTIC WATER PIT (WARREN COUNTY)

DESCRIPTION: WHERE SHOWN ON THE DRAWINGS, FURNISH AND INSTALL COMPLETE LARGE DOMESTIC WATER METER PIT IN ACCORDANCE WITH THE RULES, REGULATIONS, AND STANDARD DETAILS OF THE WARREN COUNTY DEPARTMENT OF WATER & SEWER. THE LIMITS OF CONSTRUCTION ARE BETWEEN THE GATE VALVE SHOWN ON THE UPSTREAM AND DOWNSTREAM SIDES OF THE METER PIT. WATER PIPE TO BE INSTALLED BETWEEN THE GATE VALVES SHALL BE INCLUDED IN THIS ITEM. WORK IN THIS ITEM SHALL INCLUDE ALL COORDINATION AND COMMISSIONING NECESSARY TO PROVIDE A FULLY FUNCTIONAL AND ACCEPTED SYSTEM.

BASIS OF PAYMENT: PAYMENT FOR THE WORK DESCRIBED SHALL BE INCLUDED IN THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS TO COMPLETE THE WORK.

ITEM 690, SPECIAL - WATER WORK, MISC.: CONCRETE ENCASEMENT (WARREN COUNTY)

DESCRIPTION: WHERE SHOWN ON THE DRAWINGS, PROVIDE FULL CONCRETE ENCASEMENT AT WATER LINES IN ACCORDANCE WITH THE RULES, REGULATIONS, AND STANDARD DETAILS OF THE WARREN COUNTY DEPARTMENT OF WATER & SEWER. THE COST OF FURNISHING AND INSTALLING THE WATER LINE, INCLUDING TRENCH EXCAVATION AND BACKFILL, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR WATER LINES.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE CONCRETE ENCASEMENT (WARREN COUNTY) BY THE NUMBER OF FEET OF CONCRETE ENCASEMENT, MEASURED ALONG THE CENTERLINE OF THE WATER LINE.

BASIS OF PAYMENT: PAYMENT FOR THE WORK DESCRIBED SHALL BE INCLUDED IN THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS TO COMPLETE THE WORK.

ITEM 690, SPECIAL - WATER WORK, MISC.: LOWER EXISTING WATER SERVICE LINE

THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND AND LOWER THE EXISTING WATER SERVICE LINE WHICH CROSS SR 63 AT APPROXIMATELY STA. 157+98 AND 172+50.00. AS PART OF THE WORK AT STA. 172+50.00 THE CONTRACTOR SHALL ALSO LOWER/ RELOCATE/REMOVE THE EXISTING LATERAL LINE AND FIRE HYDRANT LOCATED APPROXIMATELY AT STA. 173+80.00 ON THE NORTH SIDE OF SR 63 WHICH ARE IMPACTED DUE TO CONSTRUCTION AS DIRECTED BY THE ENGINER. THE WATERLINE UNDER SR 63 PAVEMENT SHALL BE ENCASED AND BORED OR JACKED.

PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 690, SPECIAL - WATER WORK, MISC.: LOWER EXISTING WATER SERVICE LINE AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, MATERIALS (INCLUIDNG TAPPING SLEEVES), AND ANY INCIDENTALS TO COMPLETE THE WORK.

ITEM 690, SPECIAL - WATER WORK, MISC.: LOWER EXISTING WATER SERVICE LINE AT STA. 157+98.00		LS
ITEM 690, SPECIAL - WATER WORK, MISC.: LOWER EXISTING WATER SERVICE LINE AT STA. 172+50.00		LS

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO. 4. FOLLOWING QUANTITES ARE CARRIED TO GENERAL SUMMARY:

ITEM 623	MONUMENT ASSEMBLY ADJUSTED TO GRADE	7 EACH
ITEM 623	REFERENCE MONUMENT, TYPE A	24 EACH

GENERAL NOTES

DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	16
TOTAL	436

WAR-63-0.83

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ENDANGERED BAT HABITAT REMOVAL

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT, AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT (ESA). FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK 3 INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. IF REQUIRED CONTRACTOR SHALL TRANSITION THE HEIGHT OF THE PROPOSED GUARDRAIL TO MATCH THE HEIGHT OF THE EXISTING GUARDRAIL. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES (CONT.)

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

BIORETENTION CELL(S)

CONSTRUCT THE BIORETENTION CELL(S) AFTER ALL CONTRIBUTING DRAINAGE AREAS ARE STABILIZED AS SHOWN ON THE CONTRACT PLANS. DO NOT OPERATE HEAVY EQUIPMENT WITHIN THE PERIMETER OF A BIORETENTION CELL. USE ALL SUITABLE EXCAVATED MATERIAL IN THE WORK. ALTERNATIVELY, LEGALLY USE, RECYCLE, OR DISPOSE OF ALL EXCAVATED MATERIALS ACCORDING TO 105.16 AND 105.17.

EXCAVATE THE BIORETENTION CELL TO THE DIMENSIONS, WITH VERTICAL SIDES, TO THE ELEVATIONS SPECIFITIED. MINIMIZE THE COMPACTION OF THE BOTTOM OF THE BIORETENTION CELL. EXCAVATION WILL BE MEASURED AND PAID AS ITEM 203, EXCAVATION AS PER PLAN.

THE BIORETENTION CELL CONSISTS OF FOUR DISCRETE LAYERS: BIORETENTION PLANTING SOIL LAYER, FINE AGGREGATE LAYER, COARSE AGGREAGE NO. 78 LAYER, AND COARSE AGGREGATE NO. 57 LAYER AND AN UNDERDRAIN SYSTEM. THE MATERIALS AND VOLUMES FOR EACH LAYER ARE AS SHOWN:

BIORETENTION CELL(S) (CONT.)

BIORETENTION PLANTING SOIL LAYER PLUS 3 INCH COVER

BIORETENTION CELL	PROJECT QUANTITY (CY)
COMPOSITION BY VOLUME	
5 PARTS SAND - CMS FINE AGGREGATE AS PER 703.20	409 CY
1 PART TOPSOIL - CMS 659.05	82 CY
2 PARTS COMPOST - CMS 659.06	164 CY
FINE AGGREGATE AS PER CMS 703.20	60 CY
COARSE AGGREAGE SIZE NO. 78 PER 703.20	60 CY
COARSE AGGREAGE SIZE NO. 57 PER 703.20	238 CY
TOTAL CUBIC YARDS	1013 CY

CONSTRUCT THE UNDERDRAIN SYSTEM AS SPECIFIED.

PLACE THE BIORETENTION PLANTING SOIL IN 12 INCH LIFTS. THE BIORETENTION PLANTING SOIL LAYER PLUS 3 INCH COVER IS 3 INCHES GREATER THAN THE DEPTH SPECIFIED TO ACCOUNT FOR EXPECTED SETTLING OF THE UNCOMPACTED SOIL. THE BIORETENTION PLANTING SOIL SHALL BE A UNIFORM MIX THAT IS FREE OF STONES, STUMPS, ROOTS, OR ANY OTHER OBJECT LARGER THAN TWO INCHES. THE SOIL MAY CONSIST OF EXISTING SOIL, FURNISHED SOIL, OR A COMBINATION OF BOTH PROVIDED THAT THE PH IS BETWEEN 5.2 ? 8.0 AND MEETS THE COMPOSITION REQUIREMENTS LISTED ABOVE. PHOSPHORUS CONCENTRATIONS OF THE PLANTING SOIL SHALL FALL BETWEEN 15 AND 60 MG/KG (PPM) AND DETERMINED BY THE MEHLICH III TEST.

THOROUGHLY MIX THE BIORETENTION PLANTING SOIL PRIOR TO PLACEMENT.

PLACE OBSERVATION WELL AND CLEANOUT WHERE SPECIFIED. CONNECT THE OBSERVATION WELL AND CLEANOUT TO THE PERFORATED UNDERDRAIN WITH THE APPROPRIATE MANUFACTURED CONNECTIONS. EXTEND THE OBSERVATION WELL AND CLEANOUT 4 INCHES ABOVE THE SURFACE ELEVATION. CAP THE OBSERVATION WELL AND CLEANOUT WITH A THREADED SCREW CAP. CAP THE ENDS OF PERFORATED UNDERDRAIN PIPES NOT TERMINATING IN AN OBSERVATION WELL AND CLEANOUT OR CONNECTED TO OTHER CONDUITS. PLACE SEED, TURF, TREES, SHRUBS, OR OTHER PLANT MATERIALS FOR BIORETENTION FACILITIES AS SPECIFIED. PLANT MATERIALS WILL BE MEASURED AND PAID FOR PER CMS ITEM(S) 659, 660, OR 661 DEPENDING ON THE PLANT MATERIALS SPECIFIED. APPLY NO PESTICIDES, HERBICIDES, LIME, AND FERTILIZERS. INSTALL ITEM 611 AS SPECIFIED. INSTALL TEMPORARY EROSION CONTROL MAT TYPE A, B, C, OR E PER CMS 671 WITH EITHER STRAW MULCH OR COMPOST OR AS SPECIFIED IN THE PLANS.

BIORETENTION CELLS WILL BE PAID FOR AS ITEM 601, BIORETENTION CELL CU. YD. AND ITEM 601, TIED CONCRETE MAT SQ. YD. EXCAVATION FOR BIORETENTION CELLS SHALL BE FOR VERTICAL SIDES ONLY AS SPECIFIED AND PAID FOR AS ITEM 203, EXCAVATION AS PER PLAN CU. YD. PERFORATED UNDERDRAINS, OBSERVATION WELLS, AND ASSOCIATED FITTINGS AND COUPLERS WILL BE PAID FOR AS ITEM 605, UNDERDRAIN AS PER PLAN. NON PEFORATED OUTLET PIPES FOR BIORETENTION CELLS SHALL BE PAID FOR AS ITEM 611. SEEDING AND MULCHING FOR THE BIORETENTION CELL SHALL BE PAID FOR AS ITEM 659 SEEDING AND MULCHING SQ. YD. EROSION CONTROL MATS SHALL BE PAID FOR AS ITEM 671, EROSION CONTROL MATS SQ. YD.

CONTRACT REQUIREMENT

THE CONTRACTOR SHALL PERFORM ALL CLEARING AND GRUBBING PRIOR TO MARCH 30, 2024. NO OTHER CONTRACT WORK SHALL BE ALLOWED/PERFORMED PRIOR TO APRIL 1, 2024; UNLESS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL REMOVE ALL TREES THAT ARE CLASSIFIED AS BAT TREES WITHIN THE CLEARING LIMITS OF THE PROJECT PRIOR TO MARCH 30, 2024. THE CLEARING AND GRUBBING IS NECESSARY TO ADHERE TO THE INDIANA BAT CLEARING RESTRICTION.

INTERIM COMPLETION REQUIREMENTS

THE PROJECT HAS AN INTERIM COMPLETION DATE OF OCTOBER 1, 2025. ON OR BEFORE THE INTERIM COMPLETION DATE, ALL ROADWAYS SHALL BE PLACED IN THEIR FINAL TRAFFIC CONFIGURATION WITH ALL CONTRACT ITEMS OF WORK COMPLETE EXCEPT FOR THE FINAL ASPHALT CONCRETE SURFACE COURSE, FINAL PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS.

THE CONTRACTOR WILL BE SUBJECT TO DAILY DISINCENTIVES IN THE AMOUNT OF $2,000.00 PER DAY FOR FAILURE TO COMPLETE ALL THE REQUIRED WORK AND ASSOCIATED INCIDENTALS RELATED TO THE WORK PRIOR TO THE INTERIM COMPLETION DATE. DAILY DISINCENTIVES ARE APPLICABLE TO THE WORK REQUIRED TO THE INTERIM COMPLETION DATE ONLY. THE CONTRACTOR IS STILL SUBJECT TO LIQUIDATED DAMAGES AS OUTLINED IN CMS 108.07 FOR THE REMAINDER OF THE CONTRACT. ANY TIME EXTENSIONS GRANTED SHALL APPLY TO THE INTERIM COMPLETION DATE AND NOT THE CONTRACT COMPLETION DATE.

CONTRACT COMPLETION DATE

THE CONTRACT COMPLETION DATE SHALL BE JUNE 15, 2026. THE CONTRACTOR SHALL RETURN TO WORK ON OR BEFORE MAY 1, 2026 TO COMPLETE THE FINAL ASPHALT SURFACE COURSE, PAVEMENT MARKINGS AND RAISED PAVEMENT MARKINGS.

ITEM 690, SPECIAL - CONSULTANT FOR ASPHALT CONCRETE QUALITY ASSURANCE INCLUDING ASPHALT PLANT MONITORING

ALL ASPHALT CONCRETE SHALL BE MONITORED, INSPECTED, SAMPLED AND TESTED. IN ADDITION TO THE REQUIREMENTS OUTLINED IN CONSTRUCTION AND MATERIAL SPECIFICATIONS FOR ASPHALT CONCRETE (SECTIONS 401, 402, 403, 441 AND/ OR 442), SUPPLEMENTAL SPECIFICATIONS AND SPECIFIC ASPHALT BLEND SPECIFICATIONS FOR ACCEPTANCE (i.e., 446, 447, 448 AND/OR 449). THE CONTRACTOR SHALL PROVIDE A CONSULTANT TECHNICIAN WHO WILL SERVE AS THE ASPHALT PLANT MONITOR TO WITNESS THE CONTRACTOR/PRODUCER QUALITY CONTROL (QC) TESTING OF ASPHALT CONCRETE MIX. THE CONSULTANT TECHNICIAN SHALL PERFORM THE DUTIES OF THE ASPHALT MONITOR BY REVIEWING THE QC ACTIVITIES OF THE CONTRACTOR BY PHYSICAL PRESENCE AND SAMPLE TESTING AND OVERSEEING SAMPLING AND TESTING FOR PAYMENT. THE CONSULTANT ASPHALT MONITOR SHALL POSSES AN ODOT ASPHALT LEVEL 2 CERTIFICATION. THE ASPHALT MONITOR SHALL HAVE THOROUGH KNOWLEDGE OF THE ODOT ASPHALT MONITORS MANUAL. THE CONSULTANT ASPHALT MONITOR IS PERFORMING THE DUTIES IN LIEU OF AN ODOT DEPARTMENTAL/CONSULTANT MONITOR. IT IS NOT REQUIRED TO HAVE AN ODOT DEPARTMENTAL MONITOR SCHEDULED/PRESENT AS THE CONSULTANT ASPHALT MONITOR SHALL BE CONSIDERED THE "DEPARTMENTAL"REPRES-ENTATIVE AS NOTED IN THE CONSTRUCTION AND MATERIAL SPECIFICATION. THE CONSULTANT ASPHALT MONITOR SHALL PERFORM ALL DUTIES AND RESPONSIBILITIES OF AN ODOT DEPARTMENTAL MONITOR. THE CONSULTANT ASPHALT MONITOR SHALL TAKE ALL SAMPLES TO THE INDEPENDENT CONSULTANT LAB FOR TESTING AND VERIFICATION ANALYSIS. THE ASPHALT

GENERAL NOTES

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 16A | TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 9/5/2023 TIME: 7:49:07 PM USER: munna
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ITEM 690, SPECIAL - CONSULTANT FOR ASPHALT CONCRETE QUALITY ASSURANCE INCLUDING ASPHALT PLANT MONITORING (CONT.)

MONITOR SHALL ALSO SAMPLE AND TEST THE ASPHALT BINDERS AND TACK PRODUCTS. THE CONSULTANT LAB SHALL BE PERFORMING THE TESTING AS NOTED IN THE SPECIFICATION AS DEPARTMENTAL TESTING (QA) AND FOR BASIS OF ACCEPTANCE/PAYMENT.

IN ADDITION, THE CONTRACTOR SHALL PROVIDE A CONSULTANT FIELD TECHNICIAN WITH A MINIMUM ODOT PREQUALIFICATION OF ASPHALT LEVEL 2 CERTIFICATION. THE CONSULTANT FIELD TECHNICIAN SHALL PERFORM INSPECTION, SAMPLING AND TESTING AS OUTLINED IN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, ODOT MANUAL OF PROCEDURES AND SUPPLEMENTAL SPECIFICATION 1055.THE CONSULTANT FIELD TECHNICIAN SHALL PERFORM FIELD SERVICES THAT INCLUDE BUT NOT LIMITED TO: TESTING WITH NUCLEAR DENSITY, MONITORING ASPHALT TEMPERATURES, MEASURING MAT THICKNESS, RANDOM SAMPLING, LAYOUT OF CORE LOCATIONS, TRACKING AND CREATING LOT/SUBLOT SAMPLING DOCUMENTS, PERFORMING WEIGHT AREA PLACEMENTS AND ASSISTING CONTRACTORS IN THE DEVELOPMENT OF ROLLING PATTERNS. THE CONSULTANT FIELD TECHNICIAN SHALL PROVIDE COPIES OF THE DAILY REPORTS TO THE ENGINEER WITHIN 24 HOURS OF THE COMPLETED SHIFT. THE CONSULTANT FIELD TECHNICIAN SHALL TAKE ALL DAILY FIELD SAMPLES BACK TO THE INDEPENDENT LAB FOR TESTING PER THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

THE CONSULTANT FIELD TECHNICIAN AND CONSULTANT ASPHALT MONITOR SHALL BE IN COMMUNICATION DURING PRODUCTION SHIFTS. IF THE CONSULTANT MONITOR AND/OR CONSULTANT FIELD TECHNICIAN ARE NOT SCHEDULED OR PRESENT; THEN ASPHALT PRODUCTION/PLACEMENT SHALL NOT BE ALLOWED TO PROCEED UNTIL BOTH CONSULTANT TECHNICIANS ARE PRESENT.

THE CONSULTANT TESTING LAB SHALL BE ODOT CERTIFIED AND SHALL BE ABLE TO PERFORM ALL TESTING AS REQUIRED IN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS.

A PRE-PAVING MEETING IS REQUIRED. A PRE-PAVING MEETING SHALL BE HELD A MINIMUM OF ONE WEEK PRIOR TO THE PRODUCTION AND/OR PLACEMENT OF ASPHALT. THE PRE-PAVING MEETING SHALL BE CONDUCTED BY THE ODOT DISTRICT 8 TEST LAB/LPA ENGINEER. AT LEAST ONE REPRESENTATIVE FROM EACH OF THE PARTIES INVOLVED WITH THE PRODUCTION, PLACEMENT, INSPECTION AND/OR TESTING OF ASPHALT SHALL BE IN ATTENDANCE.

THROUGH THE CONTRACTOR, THE CONSULTANT SHALL BE RESPONSIBLE FOR ENSURING ALL ASPHALT CONCRETE PLACED IS IN ACCORDANCE WITH SPECIFICATIONS. SUCH WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND THE CONSTRUCTION ADMINISTRATION MANUAL OF PROCEDURES. THE ASPHALT CONCRETE CONSULTANT SHALL PROVIDE THE NECESSARY TRAINED TECHNICIAN(S), ALL EQUIPMENT, AND SHALL FURNISH THE PROJECT ENGINEER WITH TWO (2) COPIES OF ALL TEST RESULTS WITHIN 24 HOURS AFTER COMPLETION OF ASPHALT CONCRETE PLACEMENT/TESTING.

THE TECHNICIAN(S) WILL BE REQUIRED TO DEMONSTRATE HIS/HER COMPETENCE AND EXPERIENCE LEVELS TO THE ENGINEER PRIOR TO BEGINNING WORK. THE ENGINEER WILL ORDER THE CONTRACTOR TO REPLACE ANY TECHNICIAN THAT IS NOT VERSED IN THE REQUIRED TESTING OR MONITORING PROCEDURE.

THE TECHNICIAN(S) SHALL VERBALLY NOTIFY THE PROJECT ENGINEER OF ANY FAILING TEST AND/OR IMPROPER PROCEDURES WITNESSED. THE TECHNICIANS SHALL SUBMIT FOLLOW-UP WRITTEN NOTIFICATION TO THE PROJECT ENGINEER OF REMEDIAL

ITEM 690, SPECIAL - CONSULTANT FOR ASPHALT CONCRETE QUALITY ASSURANCE INCLUDING ASPHALT PLANT MONITORING (CONT.)

ACTION(S) TAKEN. TESTING/SAMPLING SHALL BE AS SPECIFIED WITHIN THE CONSTRUCTION AND MATERIAL SPECIFICATION, SUPPLEMENTAL SPECIFICATIONS AND PROPOSAL NOTES. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAKE IMMEDIATE CORRECTIONS OR ADJUSTMENTS TO THE ASPHALT CONCRETE VIA DIRECT COMMUNICATION WITH THE ASPHALT SUPPLIER'S QUALITY CONTROL PERSONNEL TO MAINTAIN UNINTERRUPTED COMPLIANCE WITH THE SPECIFICATIONS UPON NOTIFICATION OF ASPHALT CONCRETE NON-COMPLIANCE BY THE CONSULTANT TECHNICIAN. THE PROJECT ENGINEER MAY REQUIRE MORE FREQUENT TESTING AS CONDITIONS WARRANT.

UPON COMPLETION OF DAILY ASPHALT CONCRETE PLACEMENTS, THE CONSULTANT SHALL PROVIDE THE PROJECT ENGINEER WITH DAILY TEST REPORTS, ALL ASSOCIATED TE- XX FORMS, INSPECTORS DAILY REPORT AND SUPPORTING DOCUMENTATION FOR EACH ITEM OF ASPHALT CONCRETE WORK PERFORMED SEPARATED BY JOB MIX FORMULA (JMF). SUBSEQUENTLY, UPON COMPLETION OF AN ENTIRE SPECIFICATION ITEM, THE ASPHALT CONSULTANT SHALL ALSO PROVIDE THE PROJECT ENGINEER WITH TWO (2) COPIES OF AN ADDITIONAL INSPECTION REPORT BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHICH CONTAINS THE TESTING-RESULTS SUMMARY FOR EACH ITEM BY CONTRACT REFERENCE NUMBER AND THE CONSULTANT'S CONCLUSIONS RELATIVE TO SPECIFICATION COMPLIANCE FOR ALL ASPHALT CONCRETE TESTING WORK.

THE PROJECT ENGINEER RESERVES THE RIGHT TO MAKE UNANNOUNCED QUALITY-CONTROL TEST TO VERIFY PROCEDURES USED AND RESULTS BEING OBTAINED BY THE CONTRACTOR'S CONSULTANT TECHNICIAN(S).

ADDITIONALLY, THE CONSULTANT FIELD TECHNICIAN SHALL BE REQUIRED TO KEEP AN ASPHALT PAVING MAP OF THE PROJECT. THE PAVING MAP WILL IDENTIFY THE DAILY TOTAL PLACED WITH STATION LIMITS AND OFFSETS. THE PAVING MAP WILL IDENTIFY LOTS/SUBLOTS AND LIST CORE LOCATIONS FOR REFERENCE AND DOCUMENTATION.

PAYMENT SHALL BE BID AS LUMP SUM FOR: ITEM SPECIAL MISC.: CONSULTANT FOR ASPHALT CONCRETE QUALITY ASSURANCE (QA) INCLUDING ASPHALT PLANT MONITORING, FIELD INSPECTION/SAMPLING AND TESTING OF PLANT & FIELD SAMPLES.

THE ITEM SHALL BE PAID AS FOLLOWS:

UPON APPROVAL OF CONSULTANT TECHNICIANS AND ASPHALT TESTING LAB:	*15%*
PROGRESSING EQUIVALENT PAYMENTS	*60%*
UPON SUBMISSION OF THE FINAL REPORT	*25%*

THE CONSULTANT TECHNICIANS SHALL HAVE FULL EFFECT AND AUTHORITY OF AN ODOT ASPHALT PLANT MONITOR AND/OR ODOT PROJECT INSPECTOR IN DETERMINING ACCEPTABILITY OF MATERIAL AND ASPHALT CONCRETE PLACEMENT PRACTICES. THE CONSULTANT ASPHALT TESTING LAB SHALL BE ODOT CERTIFIED AND HAVE THE CAPABILITY TO PERFORM ALL TESTING AS REQUIRED IN THE CONSTRUCTION AND MATERIAL SPECIFICATION FOR THE SPECIFIC CONTRACT ITEM FOR ACCEPTANCE/PAYMENT.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 690 - SPECIAL - CONSULTANT FOR ASPHALT CONCRETE QUALITY ASSURANCE INCLUDING ASPHALT PLANT MONITORING	*LS*

GENERAL NOTES

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 16B | TOTAL 436

WAR-63-0.83

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ITEM 614, MAINTAINING TRAFFIC

THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES IN ACCORDANCE WITH THE REQUIREMENTS OF ITEM 614 EXCEPT AS NOTED IN THE PLANS. IT IS THE INTENTION TO PERFORM THE REQUIRED WORK WITH THE LEAST INCONVENIENCE AND THE MAXIMUM SAFETY OF THE CONTRACTOR AND THE TRAVELING PUBLIC. ANY VARIANCES FROM THE INTENT OF THESE MAINTENANCE OF TRAFFIC NOTES MUST BE APPROVED IN ADVANCE IN WRITING BY THE ENGINEER.

A MINIMUM OF 1 LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF EXISTING PAVEMENT AND TEMPORARY PAVEMENT, EXCEPT ONE LANE OF TWO WAY TRAFFIC USING FLAGGERS BE MAINTAINED OVERNIGHT FROM 7:00 PM TO 6:00 AM WHILE CONSTRUCTING THE TEMPORARY PAVEMENT.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

NEW YEAR'S	GENERAL/REGULAR ELECTION DAY ((NOV)
TOTAL SOLAR ECLIPSE (4/8/24)	THANKSGIVING
MEMORIAL DAY	CHRISTMAS
FOURTH OF JULY	
LABOR DAY	
OTHER HOLIDAY OR SPECIAL EVENT	

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR SPECIAL EVENT — TIME ALL LANES MUST BE OPEN TO TRAFFIC

SUNDAY 12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY 12:00N FRIDAY THROUGH 6:00 AM TUESDAY
MONDAY (TOTAL SOLAR ECLIPSE)
12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY 12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY (GEN./REG. ELECTION)
5:00 AM TUESDAY THROUGH 12:00 AM WEDNESDAY
WEDNESDAY 12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY 12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)
6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY 12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY 12:00N FRIDAY THROUGH 6:00 AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRAIN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

NEWLY CONSTRUCTED LANE ADDITIONS, ONCE COMPLETED AND INITIALLY OPENED TO TRAFFIC, SHALL BE OPEN TO TRAFFIC DURING ALL SUBSEQUENT DESIGNATED HOLIDAYS AND SPECIAL EVENTS, AND RELATED PERIODS OF TIME, SPECIFIED ABOVE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ITEM 614, MAINTAINING TRAFFIC (CONT.)

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AS REQUIRED BY THE STANDARD CONSTRUCTION DRAWINGS.

THE FOLLOWING QUANTITIES ARE ESTIMATED HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 410,	TRAFFIC COMPACTED SURFACE, TYPE B	500 CU. YD.
ITEM 614,	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	500 CU. YD.
ITEM 616,	WATER	10 M. GAL.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ALL LANES ON SR 63 AND SR 741 SHALL BE OPEN TO TRAFFIC EXCEPT AS NOTED IN THE LANE VALUE CONTRACT TABLE.

LANE VALUE CONTRACT TABLE

DESCRIPTION OF CRITICAL LANE TO BE MAINTAINED	RESTRICTED TIME PERIOD	TIME UNIT	DISINCENTIVE $ PER TIME UNIT PER LANE
SR 63 - ALL LANES OPEN TO TRAFFIC	6 AM - 7 PM	1 MINUTE	$175
SR 741 - ALL LANES OPEN TO TRAFFIC	6 AM - 7 PM	1 MINUTE	$175

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE DISTRICT PUBLIC

INFORMATION OFFICER BY E-MAIL AT DOT.D08.PIO@DOT.OHIO.GOV, DISTRICT PERMITS SECTION BY E-MAIL AT DOT.D08.PERMITS@DOT.OHIO.GOV, DISTRICT TRAFFIC DETOUR SECTION BY E-MAIL AT DOT.D08.DETOURS @DOT.OHIO.GOV AND CENTRAL OFFICE SPECIAL HAULING PERMITS SECTION BY E-MAIL AT HAULING.PERMITS@DOT.OHIO.GOV. THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME

ITEM 614, MAINTAINING TRAFFIC (CONT.)

OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	14 CALENDAR DAYS	N/A PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

CONSTRUCTION PHASING

AS PART OF THIS PROJECT A CONCEPT MAINTAINING TRAFFIC SCHEME AS BEEN DEVELOPED AND DETAILED ON THE PLANS. THE CONTRACTOR MAY CHOOSE TO USE THE CONCEPT PLAN OR REDESIGN OR MAKE MODIFICATIONS TO THE SCHEME WITH PRIOR APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 10 FOOT LANES ON SR 63 AND SR 741 UNLESS SHOWN OTHERWISE IN THE PLANS. THE CONCEPT MAINTAINING TRAFFIC SHOWN ON THE PLANS CONSIST OF FOUR PRIMARY PHASES WITH SUB-PHASES AS NOTED BELOW.

PHASE 1 - CONSTRUCT TEMPORARY PAVEMENT ON SR 63

PHASE 2 - WIDEN AND RECONSTRUCT RIGHT SIDE OF SR 63, WIDEN AND CONSTRUCT NORTHBOUND SR 741 SOUTH OF SR 63

PHASE 2A - WIDEN AND CONSTRUCT SOUTHBOUND SR 741 SOUTH OF SR 63.

PHASE 3 - WIDEN AND CONSTRUCT LEFT SIDE OF SR 63, WIDEN AND CONSTRUCT NORTHBOUND SR 741 NORTH OF SR 63

PHASE 1 CONSTRUCTION

IN THIS PHASE MAINTAIN ALL TRAFFIC ON EXISTING FACILITIES AS SHOWN ON THE PLANS.

DURING THIS PHASE CONTRACTOR SHALL MAINTAIN EXISTING PAVEMENT MARKINGS AT THE MIAMI VALLEY GAMING ENTRANCE

CONSTRUCTION PHASING (CONT.)

AREA AND ALONG THE TWO LANE SECTION OF SR 63. AT THE SR 741 INTERSECTION THE CONTRACTOR AS OPTION TO EITHER MAINTAIN TRAFFIC USING EXISTING MARKINGS OR SHIFT THE TRAFFIC AS SHOWN ON THE PLANS TO CONSTRUCT THE TEMPORARY PAVEMENT AND MAINTAIN THE LANES AT THE INTERSECTION.

MAINTAIN EXISTING TRAFFIC SIGNALS AND DRIVE ACCESS AT ALL TIMES DURING THIS PHASE.

IN THIS PHASE CONSTRUCT THE FOLLOWING:

1) CONSTRUCT TEMPORARY PAVEMENT AS SHOWN ON THE PLANS USING FLAGGING OPERATION PER STANDARD CONSTRUCTION DRAWINGS MT-97.10 OR MT-97.12.
2) THE CONTRACTOR SHALL LEAVE NO WORK ZONE DROP OFFS AT THE END OF EACH DAY OR SHIFT. CONTRACTOR TO MAINTAIN WORK ZONE DROP OFF PER MT-101.90.
3) THICKNESS OF THE TEMPORARY PAVEMENT SHALL BE AS NOTED IN THE "TEMPORARY PAVEMENT THICKNESS AS PER PLAN" NOTE.
5) CONTRACTOR SHALL BORE OR JACK THE PIPES AT STA. 154+14.10 (30" PIPE) AND STA. 167+22.46 (24" PIPE).
6) CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC SIGNAL AT SR 63 AND SR 741 INTERSECTIONS AS SHOWN ON THE PLANS.
7) CONTRACTOR SHALL ALSO DESIGN AND INSTALL TEMPORARY TRAFFIC SIGNAL AT THE TEMPORARY ENCORE DRIVE AND SR 63 AS AUTHORIZED BY THE ENGINEER.

PHASE 2 CONSTRUCTION

IN THIS PHASE MAINTAIN ALL TRAFFIC AS SHOWN ON THE PLANS

MAINTAIN DRIVE ACCESS AT ALL TIMES. CONTRACTOR SHALL MAINTAIN TWO WAY ACCESS TO THE EXISTING DRIVE TO WARREN CORRECTIONAL INSTITUTION AT STA. 127+60.00 UNTIL THE INTERSECTION AT STA. 146+77.31 IS COMPLETED AND OPENED TO TRAFFIC. ONCE THE INTERSECTION/PART 2 IS OPEN TO TRAFFIC CONVERT THE EXISTING DRIVE AT STA. 127+60.00 TO RIGHT-IN ONLY.

SR 63 AND SR 741:
PLACE PCB AND SHIFT THE TRAFFIC AND MAINTAIN TRAFFIC AS SHOWN ON THE PLANS.

IN THIS PHASE THE CONTRACTOR SHALL:
1) PLACE PCB AS SHOWN ON THE PLANS.
2) RESTRIPE AND SHIFT TRAFFIC AS SHOWN ON THE PLANS.
3) INSTALL WORK ZONE PAVEMENT MARKING AS SHOWN ON THE PLANS.
4) INSTALL WORK ZONE RAISED PAVEMENT MARKERS PER STANDARD CONSTRUCTION DRAWINGS CD TC-65.10 AND TC-65.11
5) SHIFT THE TRAFFIC ON SR 63
6) CONSTRUCT THE PROPOSED PAVEMENT AS SHOWN ON THE PLANS.
7) PERFORM THE FOLLOWING:
- ADJUST THE TRAFFIC SIGNAL HEADS AT SR 63 AND MIAMI VALLEY GAMING ENTRANCE INTERSECTION ACCORDINGLY.
- MAINTAIN THE TEMPORARY TRAFFIC SIGNALS CONSTRUCTED IN PHASE 1 AT TEMPORARY ENCORE DRIVE AND SR 741.
- CONSTRUCT THE PROPOSED DRAINAGE & PIPE EXTENSIONS.
- CONSTRUCT THE APPLICABLE PROPOSED TRAFFIC SIGNAL SUPPORTS AND FOUNDATIONS.
- CONSTRUCT THE PROPOSED FENCE AND WATER SERVICE LINE FOR ODOT OUTPOST
8. COMPLETE ANY MISCELLANEOUS INCIDENTAL WORK.

PHASE 2A CONSTRUCTION

IN THIS PHASE MAINTAIN ALL TRAFFIC AS SHOWN ON THE PLANS

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY
JACOBS

DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 17 TOTAL 436

WAR-63-0.83

MODEL: MOTGenNotes1 PAPERSIZE: 17x11 (in.) DATE: 9/5/2023 TIME: 8:00:56 PM USER: munna
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CONSTRUCTION PHASING (CONT.)

SR 741:
PLACE PCB AND SHIFT THE TRAFFIC ALONG SR 741 ON BOTH NORTH AND SOUTH APPROACHES AS SHOWN ON THE PLANS.
IN THIS PHASE MAINTAIN ALL TRAFFIC AS SHOWN ON THE PLANS

MAINTAIN DRIVE ACCESS AT ALL TIMES.

SR 63
SAME AS PHASE 2.

SR 741:
PLACE PCB AND SHIFT THE SOUTH LEG OF SR 741 TRAFFIC AND MAINTAIN TRAFFIC AS SHOWN ON THE PLANS.

IN THIS PHASE THE CONTRACTOR SHALL:
1) PLACE PCB AS SHOWN ON THE PLANS.
2) RESTRIPE AND SHIFT TRAFFIC AS SHOWN ON THE PLANS.
3) INSTALL WORK ZONE PAVEMENT MARKINGS ON SR 741 AS SHOWN ON THE PLANS.
4) INSTALL WORK ZONE RAISED PAVEMENT MARKERS PER STANDARD CONSTRUCTION DRAWINGS TC-65.10 AND TC-65.11.
5) SHIFT THE TRAFFIC ON SR 741
6) CONSTRUCT THE PROPOSED PAVEMENT AS SHOWN ON THE PLANS.
7) PERFORM THE FOLLOWING:
   - ADJUST THE TEMPORARY SIGNAL HEADS ACCORDINGLY AT MIAMI VALLEY GAMING ENTRANCE, TEMPORARY ENCORE DRIVE AND SR 741 INTERSECTIONS.
   - CONSTRUCT THE APPLICABLE TRAFFIC SIGNAL SUPPORTS AND FOUNDATIONS.
8) COMPLETE ANY MISCELLANEOUS INCIDENTAL WORK.

PHASE 3 CONSTRUCTION

IN THIS PHASE MAINTAIN ALL TRAFFIC AS SHOWN ON THE PLANS.

MAINTAIN DRIVE ACCESS AT ALL TIMES.

SR 63 AND SR 741:
PLACE PCB AND SHIFT AND MAINTAIN TRAFFIC AS SHOWN ON THE PLANS.

IN THIS PHASE THE CONTRACTOR SHALL:
1) PLACE PCB AS SHOWN ON THE PLANS.
2) RESTRIPE AND SHIFT TRAFFIC AS SHOWN ON THE PLANS.
3) INSTALL WORK ZONE PAVEMENT MARKING AS SHOWN ON THE PLANS.
4) INSTALL WORK ZONE RAISED PAVEMENT MARKERS PER STANDARD CONSTRUCTION DRAWINGS TC-65.10 AND TC-65.11.
5) SHIFT THE TRAFFIC ON SR 63
6) CONSTRUCT THE PROPOSED PAVEMENT AS SHOWN ON THE PLANS.
7) ALSO PERFORM THE FOLLOWING:
   - CONSTRUCT THE PROPOSED DRAINAGE & PIPE EXTENSIONS.
   - ADJUST THE TEMPORARY SIGNAL HEADS ACCORDINGLY AT MIAMI VALLEY GAMING ENTRANCE, TEMPORARY ENCROE DRIVE AND SR 63 INTERSECTIONS.
   - CONSTRUCT THE APPLICABLE TRAFFIC SIGNAL SUPPORTS AND FOUNDATIONS.
8) COMPLETE ANY MISCELLANEOUS INCIDENTAL WORK.

PHASE 4 CONSTRUCTION

MAINTAIN DRIVE ACCESS AT ALL TIMES.

IN THIS PHASE THE CONTRACTOR SHALL:
1) MILL, LEVEL AND RESURFACE.
2) COMPLETE PROPOSED PAVEMENT MARKINGS ON SR 63 AND SR 741.

CONSTRUCTION PHASING (CONT.)

3) ACTIVATE THE PROPOSED SIGNALS.
4) COMPLETE ANY MISCELLANEOUS INCIDENTAL WORK.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 275 M. GAL.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

DELINEATION OF PORTABLE CONCRETE BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PCB) USED FOR TRAFFIC CONTROL AND ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO CMS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO CMS 614.03 AND SCD MT-101.70.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE 1 (BI-DIRECTIONAL)	378 EACH
ITEM 614, OBJECT MARKER, TWO-WAY	378 EACH

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEO'S) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEO'S SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

IN GENERAL, LEO'S SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEO'S SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEO'S WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEO'S WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEO'S. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEO'S' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEO'S HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEO'S (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONT.)

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	80 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 3.25 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UN-COMPLETED BASE WIDENING SHALL BE BACK-FILLED AT THE DIRECTION OF THE ENGINEER.

ITEM 614, PAVEMENT FOR MAINTAINING TRAFFIC

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY GRADING AND DRAINAGE FACILITIES DEEMED NECESSARY TO MAINTAIN ADEQUATE AND POSITIVE DRAINAGE. THROUGH THE WORK ZONE, AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN, TEMPORARILY RELOCATE, OR ADJUST TO TEMPORARY GRADE ALL TOPOGRAPHIC ELEMENTS WITHIN THE WORK LIMITS INCLUDING BUT NOT LIMITED TO: WATER METER PITS, MANHOLES, CATCH BASINS, INLETS, SIGNS, LANDSCAPED ARES, LIGHTING FEATURES, AND OTHER UTILITY APPURTENANCES AS DIRECTED BY THE ENGINEER.

TEMPORARY DRAINAGE FACILITIES, WHERE SHOWN ON THE PLANS, ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING WHERE TEMPORARY DRAINAGE IS NEEDED. ACTUAL DRAINAGE CHARACTERISTICS INCLUDING SIZE AND DIMENSIONS WHERE NEEDED TO KEEP THE SIDE SLOPES FROM INTERFERING WITH OTHER CONSTRUCTION ACTIVITIES AND/OR THE TRAVELING PUBLIC.

FOLLOWING CONSTRUCTION OF PAVEMENT OR ROADS FOR MAINTAINING TRAFFIC, TEMPORARY FACILITIES SHALL BE REMOVED AS PER CMS 615.08, AND THE EXISTING TOPOGRAPHY SHALL BE RESTORED, UNLESS OTHERWISE DIRECTED IN THE PLANS.

PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS, AND OTHER INCIDENTALS FOR ROADS AND PAVEMENTS FOR MAINTAINING TRAFFIC SHALL BE INCLINED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 615, ROADS FOR MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLANS.

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY
JACOBS

DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 18 TOTAL 436

WAR-63-0.83

MODEL: MOTGenNotes2 PAPERSIZE: 17x11 (in.) DATE: 9/5/2023 TIME: 8:00:58 PM USER: munna
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ITEM 614, LANE ARROWS

LANE ARROW QUANTITIES ARE PROVIDED IN THE SUB SUMMARIES, AND CARRIED TO THE GENERAL SUMMARY. CONTRACTOR SHALL INSTALL THE LANE ARROWS PER ODOT STANDARD CONSTRUCTION DRAWING, TC-71.10 AND ADJUST THE SPACING BETWEEN THE LANE ARROWS ACCORDINGLY. THE TYPE OF LANE ARROW (LEFT, RIGHT) ARE SHOWN ON THE MAINTENANCE OF TRAFFIC PLAN SHEETS.

PAYMENT FOR THE LANE ARROWS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, WORK ZONE ARROW, CLASS I, AND SHALL INCLUDE THE COST OF INSTALLING AND REMOVING.

ITEM 614, WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN

WORK ZONE RAISED PAVEMENT MARKERS, AS PER PLAN, AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614 OR C&MS 621 AS SPECIFIED HEREIN.

RAISED PAVEMENT MARKERS IN USE DURING THE SNOW-PLOWING SEASON SHALL CONFORM TO 621.

RAISED PAVEMENT MARKERS IN USE DURING THE NON-SNOW-PLOW SEASON SHALL CONFORM TO EITHER 614 OR TO 621.

THE SNOW-PLOWING SEASON SHALL RUN FROM OCTOBER 15 THROUGH APRIL 1.

IF PROJECT DELAYS, NOT THE FAULT OF ODOT, CAUSE THE WORK TO EXTEND INTO THE SNOW-PLOWING SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WORK ZONE RAISED PAVEMENT MARKERS (WZRPMS) CONFORMING TO C&MS 614, WITH RAISED PAVEMENT MARKERS CONFORMING TO 621, AS DETERMINED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

THIS ITEM SHALL INCLUDE PURCHASE, INSTALLATION AND REMOVAL OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, INCLUDING FILLING OF ANY DEPRESSIONS CREATED IN THE PAVEMENT AS PER C&MS 621.08.

ITEM 614, MAINTAINING TRAFFIC, MISC.: TEMPORARY TRAFFIC SIGNAL INSTALLATION

TEMPORARY TRAFFIC SIGNAL AT SR 63 AND SR 741 SHALL BE CONSTRUCTED IN PHASE 1 AS SHOWN ON THE SHEETS 72B, 72C, 72D AND 72E.

PAYMENT FOR INSTALLATION, MAINTENANCE AND REMOVAL SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, MAINTAINING TRAFFIC, MISC.: TEMPORARY TRAFFIC SIGNAL INSTALLATION.

AN ADDITIONAL QUANTITY OF TEMPORARY SIGNAL AT EXISTING TEMPORARY ENCORE DRIVE AND SR 63 IS PROVIDED AND CARRIED TO THE GENERAL SUMMARY.

THE ADDITIONAL TEMPORARY SIGNAL QUANTITY SHALL ONLY BE USED AS AUTHORIZED BY THE ENGINEER. IF AUTHORIZED THE CONTRACTOR SHALL DESIGN AND INSTALL TEMPORARY TRAFFIC SIGNALS IN PHASE 1 AND ADJUST THE SIGNAL HEAD LOCATIONS ACCORDINGLY IN SUBSEQUENT PHASES. THE CONTRACTOR SHALL ALSO DESIGN, FURNISH, INSTALL AND MAINTAIN DETECTION ON ALL APPROACHES AT THE INTERSECTION. THE TECHNOLOGY USED TO PROVIDE TEMPORARY DETECTION (RADAR OR VIDEO) SHALL BE CHOSEN BY THE CONTRACTOR. DETECTION HAS TO BE VERIFIED AS RELIABLE BY THE ENGINEER. THE CONTRACTOR SHALL REPLACE

ITEM 614, MAINTAINING TRAFFIC, MISC.: TEMPORARY TRAFFIC SIGNAL INSTALLATION (CONT.)

ANY DEFECTIVE DECTERCTOR OR DETECTORS AND/OR DETECTION ZONES IF DEEMED UNRELIABLE BY THE ENGINEER.

THE CONTRACTOR SHALL ALSO PROVIDE FULLY ACTUATED WORK ZONE TRAFFIC SIGNAL CONTROLLER AND CABINET THAT OPERATES IN A MANNER SIMILAR TO THAT DESCRIBED IN SECTIONS 733.02 OF CONSTRUCTION AND MATERAIL SPECIFICATIONS.

PAYMENT FOR THE DESIGN, INSTALLATION, MAINTENANCE AND REMOVAL SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, MAINTAINING TRAFFIC, MISC.: TEMPORARY TRAFFIC SIGNAL INSTALLATION.

ITEM 614 MAINTAINING TRAFFIC, MISC.: TEMPORARY TRAFFIC SIGNAL INSTALLATION 2 EACH

ITEM 614, MAINTAINING TRAFFIC, MISC.: ADJUST EXISTING TRAFFIC SIGNAL HEADS

THE CONTRACTOR SHALL ADJUST THE EXISTING TRAFFIC SIGNAL HEADS AT SR 63 AND MIAMI VALLEY GAMING ENTRANCE INTERSECTION DURING CONSTRUCTION PHASING 2 AND 3.

PAYMENT FOR THE ADJUSTING THE EXISTING TRAFFIC SIGNAL HEADS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, MAINTAINING TRAFFIC, MISC.: ADJUST EXISTING TRAFFIC SIGNAL HEADS.

ITEM 614 MAINTAINING TRAFFIC, MISC.: ADJUST EXISTING TRAFFIC SIGNAL HEADS 1 EACH

ITEM 614, WORK ZONE MARKINGS AND SIGNS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11.

ITEM 614	WORK ZONE MARKING SIGN	10 EACH
ITEM 614	WORK ZONE LANE LINE, CLASS 1, 4"	5.5 MILE
ITEM 614	WORK ZONE CENTER LINE, CLASS 1	6.6 MILE
ITEM 614	WORK ZONE EDGE LINE, CLASS 1, 4"	6.8 MILE
ITEM 614	WORK ZONE CHANNELIZING LINE, CLASS 1, 8"	9974 FT
ITEM 614	WORK ZONE LANE LINE, CLASS III, 4", 642 PAINT	5.5 MILE
ITEM 614	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	6.6 MILE
ITEM 614	WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT	6.8 MILE
ITEM 614	WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT	9974 FT

ITEM 614, EARTHWORK FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY.

EXCAVATION FOR MAINTAINING TRAFFIC	2,366 CU YD
EMBANKMENT FOR MAINTAINING TRAFFIC	1,295 CU YD

WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT OR EMBANKMENT CONSTRUCTION, EVALUATE THE NEED FOR TEMPORARY ROAD UNDERCUTS IF WITHIN A CLOSE PROXIMITY TO THE MAINLINE UNDERCUTS. A GEOTECHNICAL EVALUATION SHOULD BE CONSIDERED TO DETERMINE IF THE EXISTING SOIL

ITEM 614, EARTHWORK FOR MAINTAINING TRAFFIC (CONT.)

CONDITIONS ARE ADEQUATE TO SUPPORT THE TEMPORARY ROAD. ADDITIONAL SOIL BORINGS ALONG THE TEMPORARY ROAD ARE NOT NORMALLY REQUIRED.

ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN

THE WORK SHALL BE PER CMS 615 WITH THE FOLLOWING PAVEMENT DESIGN:

ITEM 441	2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
ITEM 301	7" ASPHALT CONCRETE BASE

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

ACCESS TO DRIVES WITHIN THE PROJECT

THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE EXISTING DRIVES TO REMAIN IN PLACE WITHIN THE PROJECT LIMITS DURING CONSTRUCTION.

FOR THE COMMERCIAL DRIVES THE CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC AT ALL TIMES DURING CONSTRUCTION USING PHASED APPROACH.

CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC AT THE FOLLOWING COMMERCIAL DRIVE LOCATIONS USING TEMPORARY PAVEMENT:

PHASE 2 CONSTRUCTION:
1) EXISTING DRIVE TO WARREN CORRECTIONAL INSTITUTION AT STA. 127+60.00 UNTIL THE PROPOSED ACCESS AT STA. 146+05.05 RT IS COMPLETED AND OPEN TO TRAFFIC. NO TEMPORARY PAVEMENT IS REQUIRED AT THIS LOCATION.
2) EXISTING DRIVE AT STA. 181+81.52 RT.

PHASE 3 CONSTRUCTION:
1) EXISTING DRIVE AT STA. 135+58.82 LT.
2) EXISTING DRIVE AT STA. 145+00.00 LT. (TEMPORARY ENCORE DRIVE)
3) EXISTING DRIVE AT STA. 158+27.49 LT.
4) EXISTING DRIVE AT STA. 198+71.54 LT.

THE TEMPORARY PAVEMENT THICKNESS SHALL BE AS NOTED ON THE AS PER PLAN NOTE FOR ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY, SHALL BE USED AS DIRECTED BY THE ENGINEER:

ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN	1,115 SY

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY
JACOBS

DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 19 TOTAL 436

WAR-63-0.83

MODEL: MOTGenNotes3 PAPERSIZE: 17x11 (in.) DATE: 9/5/2023 TIME: 8:00:59 PM USER: rmunna
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MOT LEGEND:

- LL - *WORK ZONE LANE LINE, CLASS I, 4"*
- ELW - *WORK ZONE EDGE LINE, CLASS I, 4" (WHITE)*
- ELY - *WORK ZONE EDGE LINE, CLASS I, 4" (YELLOW)*
- CL - *WORK ZONE CENTER LINE, CLASS I*
- DL - *WORK ZONE DOTTED LINE, CLASS I*
- CH - *WORK ZONE CHANNELIZING LINE, CLASS I, 8"*
- SL - *WORK ZONE STOP LINE, CLASS I*
- CM - *CHEVRON MARKING, TYPE 1*
- PCB - *PORTABLE BARRIER, UNANCHORED*
- TP - *PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B*
- SC - *FULL DEPTH PAVEMENT SAWING*
- *TRAFFIC ROUTING DRUMS*
- *TRAFFIC ROUTING*
- *WORK ZONE IMPACT ATTENUATOR*
- *PORTABLE CONCRETE BARRIER*
- *CONSTRUCTION CRITICAL THIS PHASE*
- *TEMPORARY PAVEMENT*

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY
JACOBS

DESIGNER
MRP

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 20 | TOTAL 436

WAR-63-0.83

MODEL: MOTGenNotes4 PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:45:56 PM USER: Tahir.Sondo@jacobs.com
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REF NO.	SHEET NO.	STATION TO STATION						614	614	614	614	614	614	614	614	614	614	614		615		622	622		642	
								WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	WORK ZONE RAISED PVMT MARKER, ONE-WAY, (WHITE), 40' C-C	WORK ZONE RAISED PVMT MARKER, TWO-WAY, (YELLOW), 80' C-C	WORK ZONE LANE LINE, CLASS I, 4"	WORK ZONE CENTER LINE, CLASS I	WORK ZONE EDGE LINE, CLASS I, 4" (WHITE)	WORK ZONE DOTTED LINE, CLASS I	WORK ZONE CHANNELIZING LINE, CLASS I, 8"	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I	WORK ZONE STOP LINE, CLASS I	WORK ZONE ARROW, CLASS I	WORKZONE RAILROAD SYMBOL MARKING, CLASS 1		PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN		PORTABLE BARRIER, UNANCHORED	PORTABLE BARRIER, ANCHORED		CHEVRON MARKING, TYPE 1	
								EACH	EACH	EACH	MILE	MILE	MILE	FT	FT	FT	FT	EACH	EACH		SY		FT	FT		FT	
				TO																						
		PHASE 1 - SR 63																								
ELW-1	34-35	215+70.00	LT		911+66.00	LT							0.28													
ELW-2	34,35,38	215+70.00	LT		916+00.00	LT							0.33													
CL-1	34,35	215+70.00	LT		229+30.00	LT				19		0.26														
CL-2	34,35	221+00.00	LT		227+00.00	LT				9		0.12														
CH-1	35	226+14.00	RT		229+30.00	RT			9						316					5						
CH-2	35	227+00.00	RT		229+30.00	RT			7						230					4						
SL-1	35	229+30.00	RT/LT															33								
SL-2	35	230+57.00	RT/LT															27								
CL-3	35	230+57.00	RT		236+25.00	RT				9		0.11														
CH-3	35	230+57.00	LT		232+50.00	LT			6						193					4						
ELW-3	35	911+84.00	RT		235+01.00	RT							0.10													
ELW-4	35,36,38	916+00.00	RT		239+15.00	LT							0.23													
CL-4	35	232+50.00	RT		236+25.00	LT				6		0.07														
TP	27-37	125+00.00			257+07.70																9400					
		PHASE 1 - SR 741																								
SL-3	35	913+35.00	LT															20								
CH-4	35,38	913+35.00	LT		915+94.00	LT			8						259					4						
CL-5	35	913+35.00	LT		915+94.00	LT				5		0.05														
		PHASE 2 - SR 63																								
ELW-1	39	103+14.00	RT		106+00.00	RT							0.05													
CH-1	39	103+14.00	RT		106+00.00	RT			9						286					3						
CH-2	39	104+25.00	RT		106+00.00	RT			6						175					3						
SL-1	39	106+00.00	RT															28								
TR-1	39	107+18.00	LT		108+65.00	LT																			62	
ELW-2	39,40	107+18.00	LT		115+72.00	LT							0.16													
CH-3	39	107+18.00	LT		109+90.00	LT			1						272											
SL-2	39	107+18.00	LT/RT															40								
CH-4	39	107+18.00	LT		109+90.00	LT			8						272					2						
CH-4A	39	107+18.00	RT		108+65.00	LT			5						147					2						
CL-1	39,40	107+18.00	RT		115+72.00	LT				12		0.16														
DL-1	39	107+83.00	RT		108+83.00	RT								100												
CH-5	39,40	108+83.00	RT		115+85.00	RT			19						802					10						
LL-1	39,40	109+90.00	RT		115+72.00	RT				9	0.11										2					
CH-6	39,40	110+50.00	RT		115+85.00	RT			15						535					8						
ELW-3	39-49,52	107+00.00	LT		900+00.00	LT							2.60													
PCB-1	39,40	107+37.00	RT		118+95.00	RT		2															1158			
SL-3	40	115+72.00	LT															10								
SL-4	40	116+85.00	LT/RT															20								
SL-5	40	117+00.00	LT															20								
CL-2	40	117+00.00	LT		229+30.00	LT				142		2.13														
CL-3	40	117+00.00	LT		121+34.00	LT				7		0.08														
ELW-4	40	117+00.00	LT		918+56.00	LT							2.24													
CH-7	40	117+00.00	LT		120+85.00	LT			9						385											
TOTALS CARRIED TO MOT SUBSUMMARY SHEET NO. 24								2	102	218	1.00	3.00	6.00	100	3872		198	45	2		9400		1158		62	

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY
JACOBS

DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 21 TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:46:05 PM USER: Tahir.Sondo@jacobs.com
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REF NO.	SHEET NO.	STATION TO STATION						614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL) EACH	614 WORK ZONE RAISED PVMT MARKER, ONE-WAY, (WHITE), 40' C-C EACH	614 WORK ZONE RAISED PVMT MARKER, TWO-WAY, (YELLOW), 80' C-C EACH	614 WORK ZONE LANE LINE, CLASS I, 4" MILE	614 WORK ZONE CENTER LINE, CLASS I MILE	614 WORK ZONE EDGE LINE, CLASS I, 4" (WHITE) MILE	614 WORK ZONE DOTTED LINE, CLASS I FT	614 WORK ZONE CHANNELIZING LINE, CLASS I, 8" FT	614 WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I FT	614 WORK ZONE STOP LINE, CLASS I FT	614 WORK ZONE ARROW, CLASS I(LEFT OR RIGHT) EACH	614 WORKZONE RAILROAD SYMBOL MARKING, CLASS 1 EACH	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN SY	622 PORTABLE BARRIER, UNANCHORED FT	622 PORTABLE BARRIER, ANCHORED FT	642 CHEVRON MARKING, TYPE 1 FT
				TO																				
		PHASE 2 - SR 63 (CONT.)																						
TR-2	40	117+00.00	LT		120+85.00	LT										250								
PCB-2	42,43	149+18.00	LT		151+32.00	LT		2														214		
PCB-3	44	164+25.00	LT		166+90.00	LT		2															265	
PCB-4	44	163+68.00	LT		173+32.00	LT		2															964	
PCB-5	46	193+75.00	LT		195+66.00	LT		2															191	
PCB-6	46	193+50.00	LT		195+50.00	LT		2															200	
PCB-7	48,49	224+68.00	RT		228+98.00	RT		2														430		
CL-4	48,49	220+50.00	LT		227+00.00	LT				10		0.12												
CH-7	49	226+10.00	LT		229+30.00	LT			9						320			5						
CH-8	49	227+00.00	LT		229+30.00	LT			8						230			4						
SL-6	49	229+30.00	LT/RT														35							
TR-3	48,49	220+50.00	LT		227+00.00	LT										180								
CH-9	49	230+76.00	LT		232+75.00	LT			6						199			3						
SL-7	49	230+76.00	LT			RT											21							
PCB-8	49-51	231+10.00	RT		252+41.00	RT		2														2131		
CL-5	49-51	230+76.00	LT		257+50.00	LT				35		0.51												
CL-6	49-50	232+75.00	LT		242+00.00	LT				13		0.18												
TR-4	49-50	232+75.00	LT		242+00.00	LT										182								
		PHASE 2 - SR 741																						
ELW-5	53,49-51	918+56.00	RT		257+35.00	LT							0.63											
ELW-6	52,49-51	900+00.00	RT		257+50.00	RT							0.76											
CL-7	52,49	900+00.00	LT		911+94.00	LT				17		0.23												
PCB-9	52,49	903+11.00	RT		911+87.00	RT		2														876		
CL-8	52	903+49.00	LT		909+50.00	LT				10		0.13												
TR-5	52	9044+02.00	LT		909+50.00	LT										178								
CH-10	52,49	909+50.00	LT		911+94.00	LT			8						244			4						
SL-9	49	911+94.00	LT/RT														24							
CH-11	49,53	913+61.00	LT		916+00.00	LT			7						239									
SL-8	49	913+61.00	LT														24							
CL-9	49,53	913+61.00	RT		916+88.00	RT				5		0.06												
CL-10	53	916+09.00	LT		916+70.00	LT				2		0.01												
TP-1	53	925+77.00	RT		926+81.00	RT															27			
TOTALS CARRIED TO MOT SUBSUMMARY SHEET NO. 24								16	38	92		2.00	2.00		1232	790	104	16			27	3651	1620	

MAINTENANCE OF TRAFFIC SUBSUMMARY

WAR-63-0.83

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DESIGN AGENCY
JACOBS

DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 22 TOTAL 436

REF	SHEET NO.	STATION TO STATION					614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL) EACH	614 WORK ZONE RAISED PVMT MARKER, ONE-WAY, (WHITE), 40' C-C EACH	614 WORK ZONE RAISED PVMT MARKER, TWO-WAY, (YELLOW), 80' C-C EACH	614 WORK ZONE LANE LINE, CLASS I, 4" MILE	614 WORK ZONE CENTER LINE, CLASS I MILE	614 WORK ZONE EDGE LINE, CLASS I, 4" (WHITE) MILE	614 WORK ZONE DOTTED LINE, CLASS I FT	614 WORK ZONE CHANNELIZING LINE, CLASS I, 8" FT	614 WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I FT	614 WORK ZONE STOP LINE, CLASS I FT	614 WORK ZONE ARROW, CLASS I(RIGHT OR LEFT) EACH	614 WORK ZONE RAILROAD SYMBOL MARKING, CLASS I EACH	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN SY	622 PORTABLE BARRIER, UNANCHORED FT	622 PORTABLE BARRIER, ANCHORED FT	642 CHEVRON MARKING, TYPE 1 FT
			TO																		
		PHASE 2A - SR 741																			
ELW-1	55,56	903+50.00	LT		229+15.00	RT						0.18									
ELW-2	55,56	903+65.00	RT		230+95.00	LT						0.18									
CL-1	55,56	904+02.46			911+77.00	RT			11		0.15										
CL-2	56	904+45.67			909+50.00	RT			8		0.10										
PCB-1	55,56	904+86.00	LT		911+25.00	LT	2													639	
TR-1	56	904+45.67			909+50.00	RT									146						
CH-1	55,56	909+50.00	RT		911+77.00	RT		7						227		4					
DL-1	55	911+77.00	RT		913+50.00	RT							173								
DL-2	55	911+77.00	RT		913+62.00	RT							187								
DL-3	55	911+77.00	LT		913+62.00	LT							188								
DL-4	55	911+77.00	LT		913+62.00	LT							188								
SL-1	56	911+77.00	RT													20					
ELW-3	55,57,58	229+05.00	LT		929+00.00	LT						0.32									
ELW-4	55,57,58	230+75.00	LT		928+12.00	RT						0.30									
SL-2	55	913+62.00	LT													22					
CH-2	55,57	913+62.00	LT		916+10.00	LT		8						248		4					
CL-3	55,57	916+62.00	LT		924+00.00	LT			11		0.14										
TR-2	57	916+10.00	RT		924+00.00	LT								160							
CL-4	57,58	916+10.00	LT		928+84.00	LT			18		0.25										
CL-5	57,58	926+45.00	LT		928+84.00	LT			5		0.05										
TR-3	57,58	926+45.00	LT		928+84.00	LT								63							
		PHASE 3 - SR 63																			
SL-1	58	107+18.00	LT/RT													31					
ELW-1	58-60	106+88.00	RT		127+56.00	RT						0.40									
ELW-2	58,59	106+98.00	LT		115+97.00	LT						0.17									
CH-1	58	107+18.00	LT		109+90.00	LT		8						272		3					
CH-2	58	107+18.00	LT		108+65.00	LT		5						147							
TR-1A	58	107+18.00	LT		108+65.00	LT															62
CL-1	58,59	107+18.00	RT		115+81.00	RT			13		0.17										
PCB-1	58,59	107+46.00	LT		115+17.00	LT	2													771	
CL-2	58	107+84.00	RT		108+83.00	LT			3		0.02										
CH-3	58,59	108+83.00	RT		115+81.00	RT		19						698		10					
CH-4	58,59	110+50.00	LT		115+81.00	LT		15						531		8					
SL-2	59	115+81.00	LT/RT													30					
ELW-3	59-68	116+77.00	RT		913+23.00	LT						2.16									
CL-3	59	117+54.00	RT		146+10.00	RT			37		0.54										
TR-1	59	117+54.00	RT		122+99.00	RT									170						
CL-4A	59	117+54.00	RT		122+99.00	RT			8		0.10										
SL-3	59	117+57.00	LT/RT													10					
PCB-2	59,60	117+69.00	RT		134+75.00	RT	1													1706	
ELW-4	60,61	127+80.00	RT		146+56.00	RT						0.37									
PCB-3	60,61	136+50.00	RT		144+00.00	RT	2													750	
ELW-5	61-64	146+88.00	RT		181+70.00	RT						0.69									
PCB-3A	61,62	146+50.00	RT		157+50.00	RT	2													1100	
CL-4	61-64	147+42.00	RT		181+30.00	RT			44		0.65										
TOTALS CARRIED TO MOT SUBSUMMARY SHEET NO. 24							9	62	158		3.00	5.00	736	2346	316	113	29			4966			62

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY
JACOBS

DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 23 TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:46:37 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121400-Engineering\MOT\Sheets\112121_MS003.dgn

REF NO.	SHEET NO.	STATION TO STATION						614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL) EACH	614 WORK ZONE RAISED PVMT MARKER, ONE-WAY, (WHITE), 40' C-C EACH	614 WORK ZONE RAISED PVMT MARKER, TWO-WAY, (YELLOW), 80' C-C EACH	614 WORK ZONE LANE LINE, CLASS I, 4" MILE	614 WORK ZONE CENTER LINE, CLASS I MILE	614 WORK ZONE EDGE LINE, CLASS I, 4" (WHITE) MILE	614 WORK ZONE DOTTED LINE, CLASS I FT	614 WORK ZONE CHANNELIZING LINE, CLASS I, 8" FT	614 WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I FT	614 WORK ZONE STOP LINE, CLASS I FT	614 WORK ZONE ARROW, CLASS I (RIGHT OR LEFT) EACH	614 WORK ZONE RAILROAD SYMBOL MARKING, CLASS I EACH	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B SY	622 PORTABLE BARRIER, UNANCHORED FT	622 PORTABLE BARRIER, ANCHORED FT	642 CHEVRON MARKING, TYPE 1 FT
			TO																				
		PHASE 3 - SR 63 (CONT.)																					
PCB-4	62,63	159+00.00	RT		171+00.00	RT		2													1200		
PCB-5	63-65	172+50.00	RT		189+25.00	RT		2													1675		
ELW-6	64-68	181+91.00	RT		910+50.00	LT							0.94										
CL-5	64-68	183+33.00	RT		229+12.00	RT				60		0.89											
PCB-6	65	193+75.00	RT		197+75.00	RT		2													400		
PCB-7	66	201+25.00	RT		228+75.00	RT		2													2750		
TR-2	67	215+65.00	RT		221+65.00	RT											137						
CL-6	67	215+65.00	RT		221+65.00	RT				9		0.12											
CH-5	67,68	221+65.00	RT		229+12.00	RT			20						747			12					
CH-6	67,68	223+75.00	LT		229+12.00	RT			15						537			8					
SL-4	68	229+12.00	RT														37						
ELW-7	68,69	911+26.00	RT		242+74.00	RT							0.25										
ELW-8	68,69	913+19.00	RT		242+74.00	LT							0.25										
SL-5	68	230+90.00	RT														21						
CH-7	68	230+90.00	RT		233+75.00	RT			9						285			5					
CL-7	68,69	230+90.00	RT		242+74.00	RT				17		0.23											
TR-3	68,69	233+50.00	RT		239+00.00	LT											121						
CL-8	68,69	233+75.00	RT		239+00.00	LT				8		0.10											
		PHASE 3 - SR 741																					
PCB-8	68,72	231+25.00	LT		923+32.00	RT		2													1143		
SL-6	68	911+26.00	RT														20						
SL-7	68	913+08.00	LT/RT														21						
CH-8	68	913+08.00	LT		913+62.00	LT			3						54								
CL-9	68	913+08.00	RT		913+62.00	LT				2		0.01											
PCB-9	72	924+25.00	RT		925+78.00	RT		2													153		
PCB-10	72	926+60.00	RT		927+50.00	RT		2													90		
TOTALS CARRIED FROM MOT SUBSUMMARY SHEET NO. 21								2	102	218	1.00	3.00	6.00	100	3872		198	45	2	10456	1158		62
TOTALS CARRIED FROM MOT SUBSUMMARY SHEET NO. 22								16	38	92	0.00	2.00	2.00	0	1232	790	104	16		27	3651	1620	0
TOTALS CARRIED FROM MOT SUBSUMMARY SHEET NO. 23								9	62	158		3.00	5.00	736	2346	316	113	29	0	0	4966		62
TOTALS THIS SHEET								14	47	96	0	1.35	1.44	0	1623	258	99	25	0	0	7411	0	0
TOTALS CARRIED TO GENERAL SUMMARY								41	249	564	1.00	9.35	14.44	836	9073	1364	514	115	2	10483	17186	1620	124

MAINTENANCE OF TRAFFIC SUBSUMMARY

WAR-63-0.83

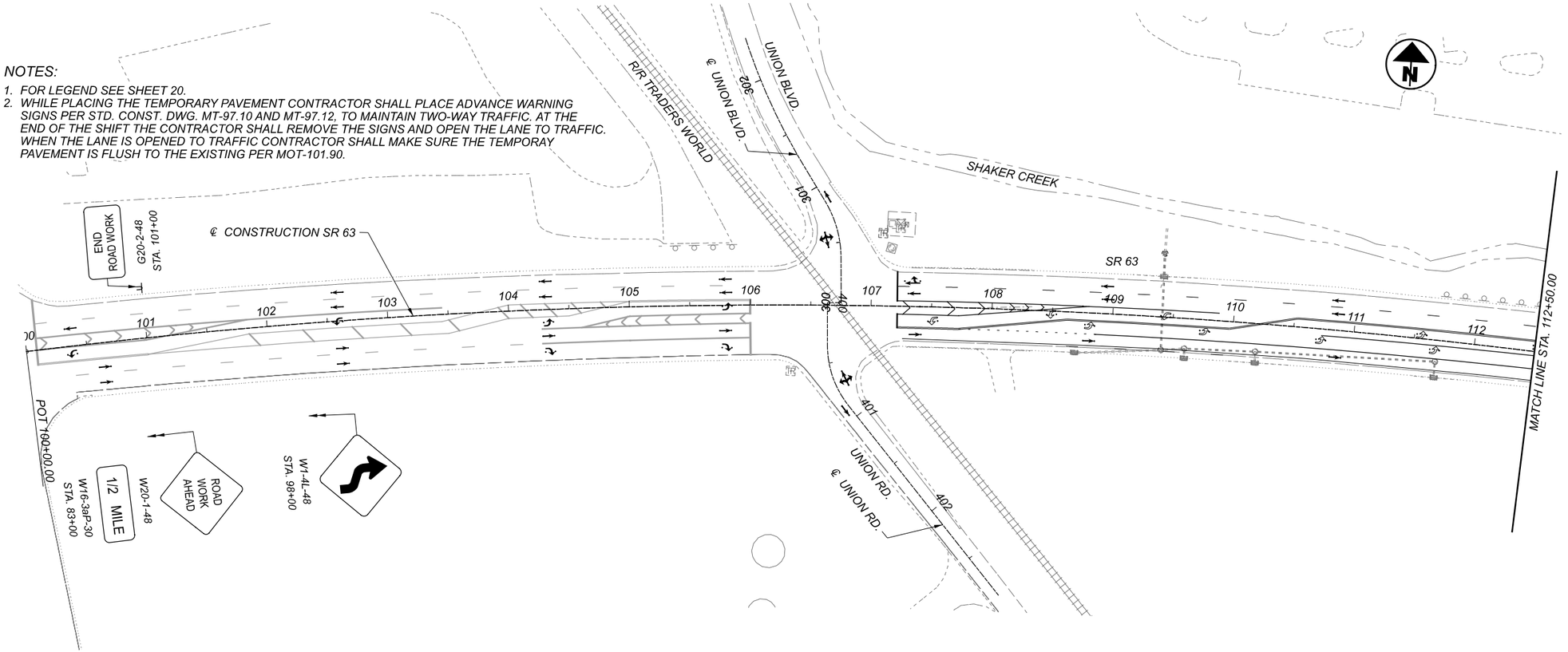
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DESIGN AGENCY
JACOBS

DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 24 TOTAL 436

NOTES:

1. FOR LEGEND SEE SHEET 20.
2. WHILE PLACING THE TEMPORARY PAVEMENT CONTRACTOR SHALL PLACE ADVANCE WARNING SIGNS PER STD. CONST. DWG. MT-97.10 AND MT-97.12, TO MAINTAIN TWO-WAY TRAFFIC. AT THE END OF THE SHIFT THE CONTRACTOR SHALL REMOVE THE SIGNS AND OPEN THE LANE TO TRAFFIC. WHEN THE LANE IS OPENED TO TRAFFIC CONTRACTOR SHALL MAKE SURE THE TEMPORAY PAVEMENT IS FLUSH TO THE EXISTING PER MOT-101.90.



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1
SR 63 - STA. 100+00.00 TO STA. 112+50.00

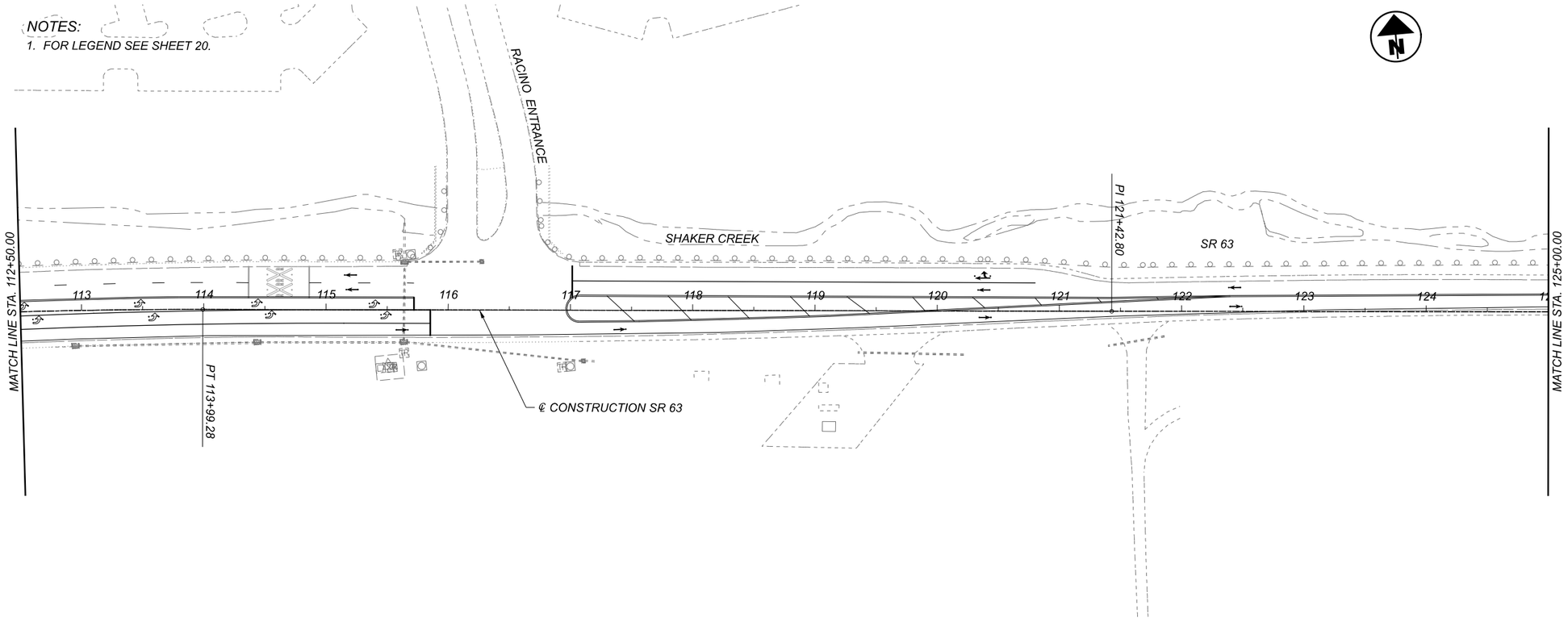
DESIGN AGENCY
JACOBS

DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 25 TOTAL 436

WAR-63-0.83

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NOTES:
1. FOR LEGEND SEE SHEET 20.



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1
SR 63 - STA. 112+50.00 TO STA. 125+00.00

DESIGN AGENCY
JACOBS

DESIGNER
MRP

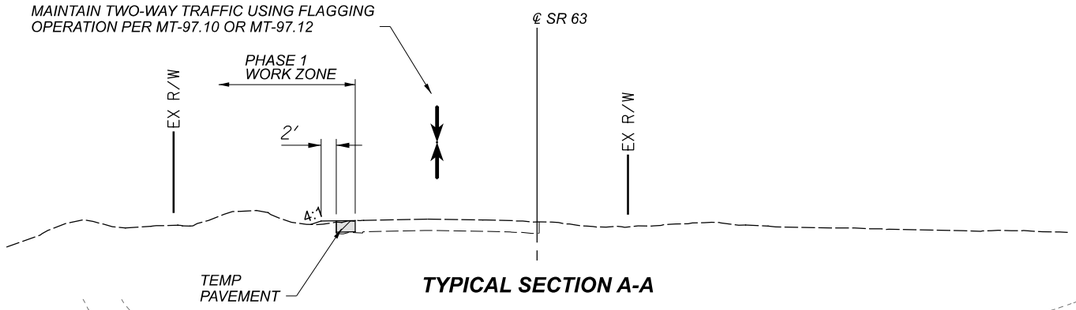
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 26 | TOTAL 436

WAR-63-0.83

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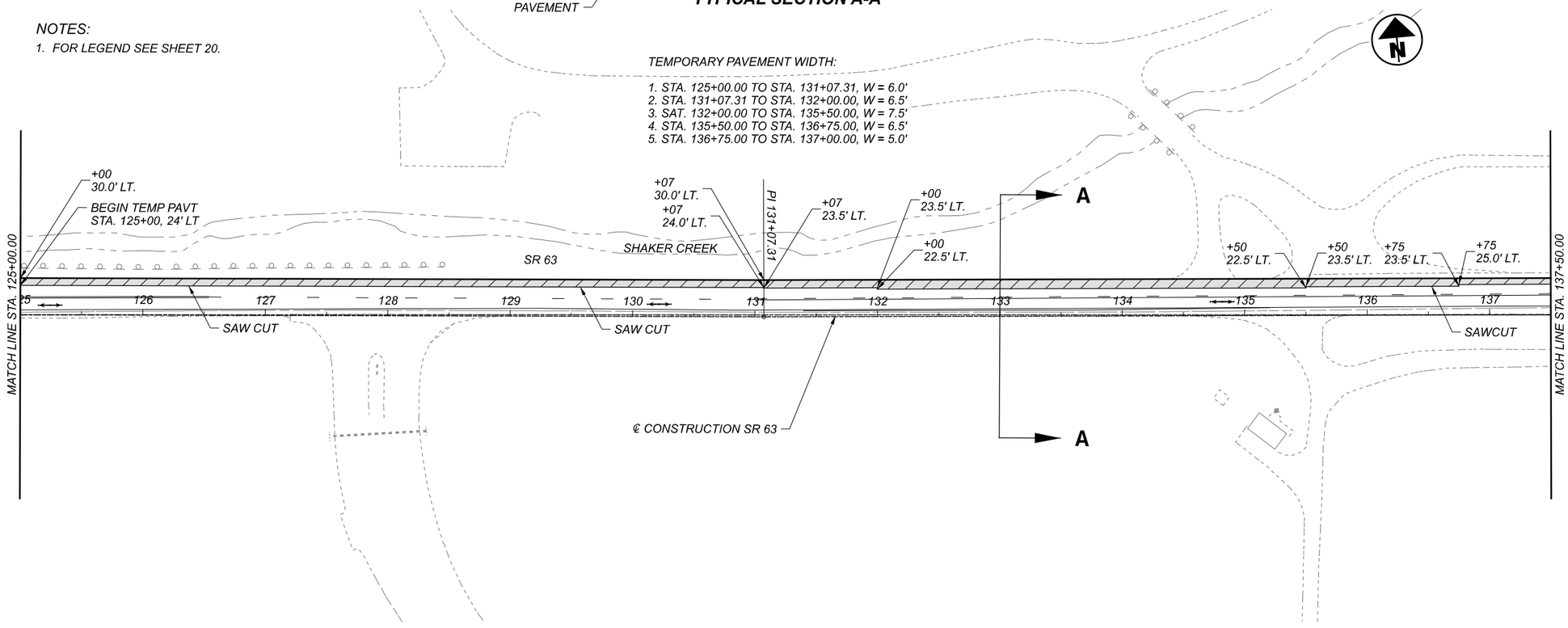
TYPICAL SECTION A-A

NOTES:

1. FOR LEGEND SEE SHEET 20.

TEMPORARY PAVEMENT WIDTH:

1. STA. 125+00.00 TO STA. 131+07.31, W = 6.0'
2. STA. 131+07.31 TO STA. 132+00.00, W = 6.5'
3. SAT. 132+00.00 TO STA. 135+50.00, W = 7.5'
4. STA. 135+50.00 TO STA. 136+75.00, W = 6.5'
5. STA. 136+75.00 TO STA. 137+00.00, W = 5.0'



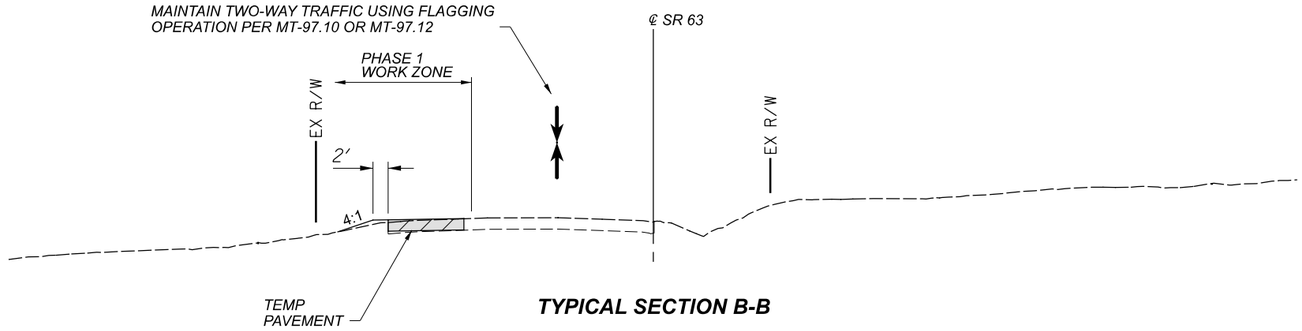
HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1
SR 63 - STA. 125+00.00 TO STA. 137+50.00

DESIGN AGENCY	JACOBS
DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	27
TOTAL	436

WAR-63-0.83

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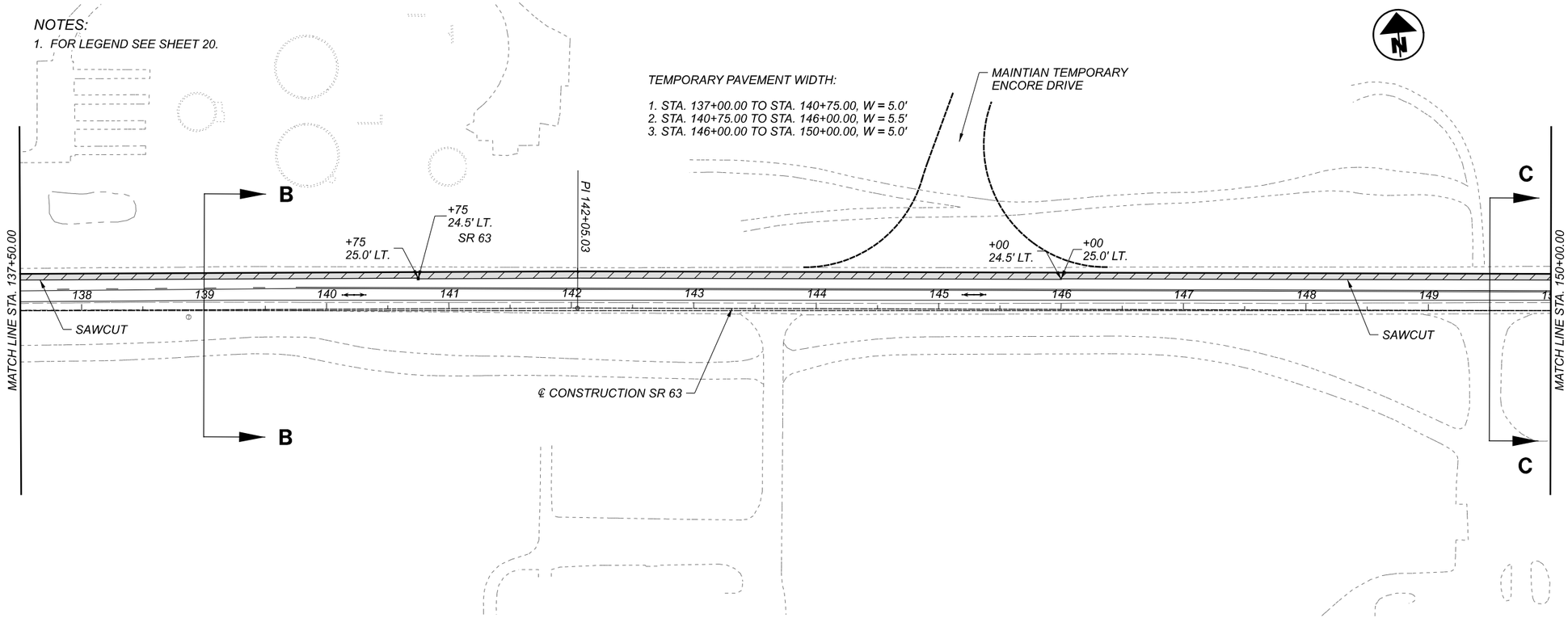
TYPICAL SECTION B-B

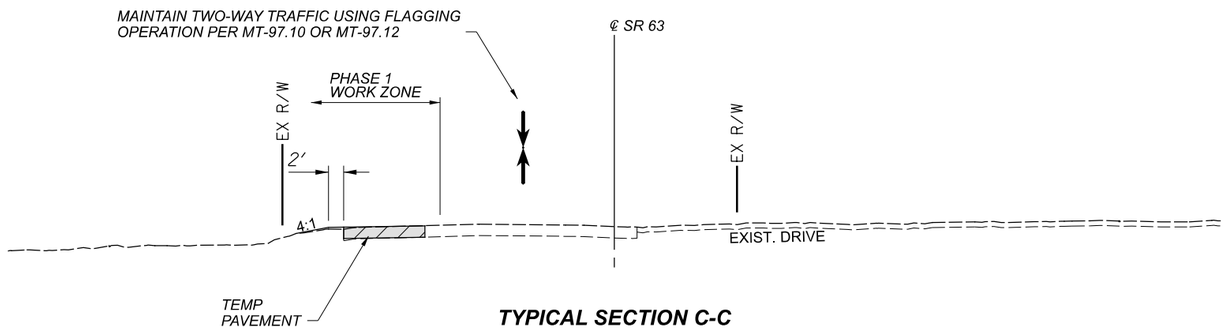
NOTES:

1. FOR LEGEND SEE SHEET 20.

TEMPORARY PAVEMENT WIDTH:

1. STA. 137+00.00 TO STA. 140+75.00, W = 5.0'
2. STA. 140+75.00 TO STA. 146+00.00, W = 5.5'
3. STA. 146+00.00 TO STA. 150+00.00, W = 5.0'





TYPICAL SECTION C-C

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1
SR 63 - STA. 137+50.00 TO STA. 150+00.00

DESIGN AGENCY
JACOBS

DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	28
TOTAL	436

WAR-63-0.83

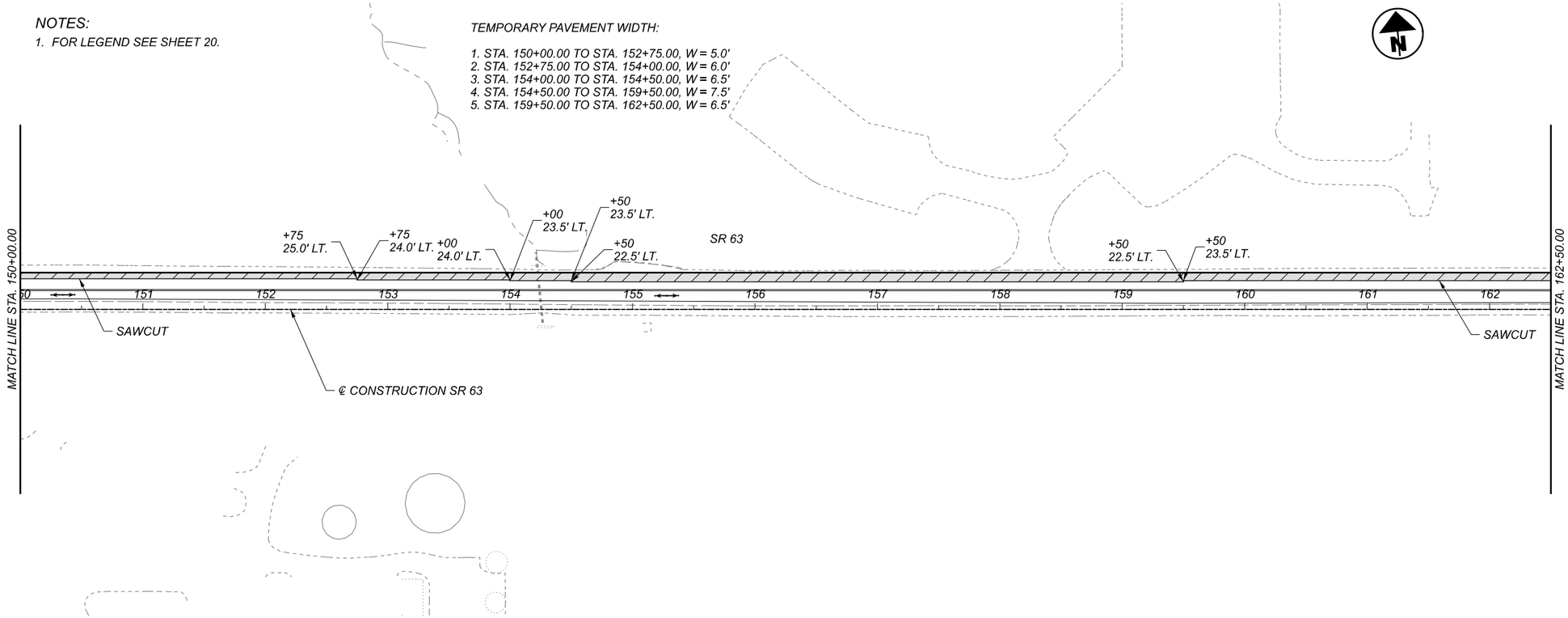
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NOTES:

1. FOR LEGEND SEE SHEET 20.

TEMPORARY PAVEMENT WIDTH:

1. STA. 150+00.00 TO STA. 152+75.00, W = 5.0'
2. STA. 152+75.00 TO STA. 154+00.00, W = 6.0'
3. STA. 154+00.00 TO STA. 154+50.00, W = 6.5'
4. STA. 154+50.00 TO STA. 159+50.00, W = 7.5'
5. STA. 159+50.00 TO STA. 162+50.00, W = 6.5'



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1
SR 63 - STA. 150+00.00 TO STA. 162+50.00

DESIGN AGENCY
JACOBS

DESIGNER
MRP

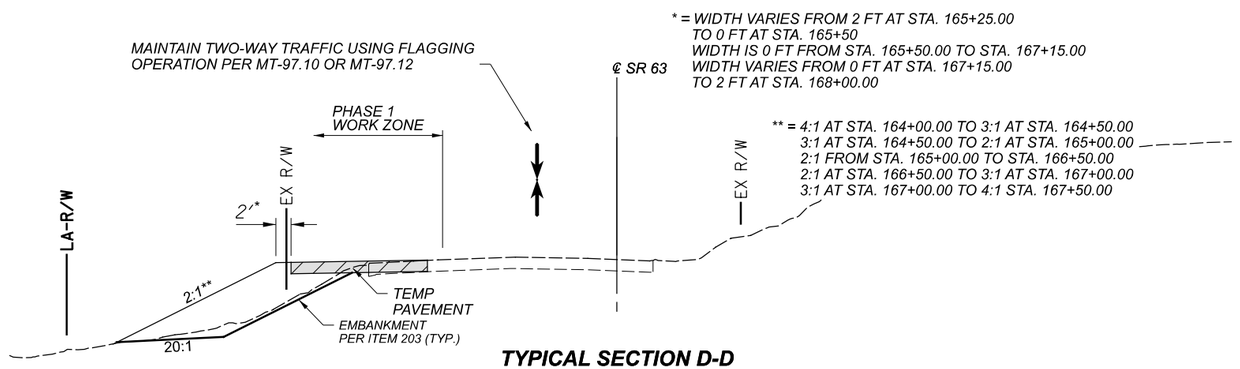
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 29 TOTAL 436

WAR-63-0.83

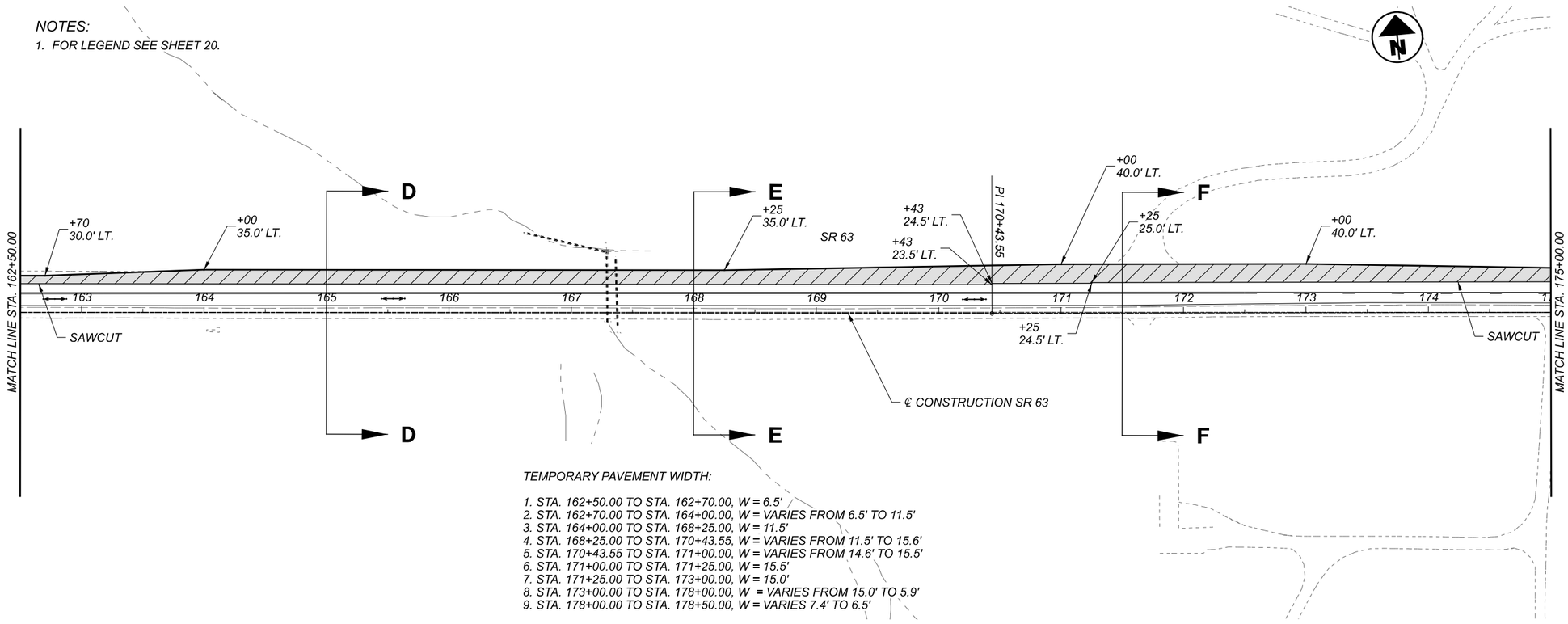
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TYPICAL SECTION D-D

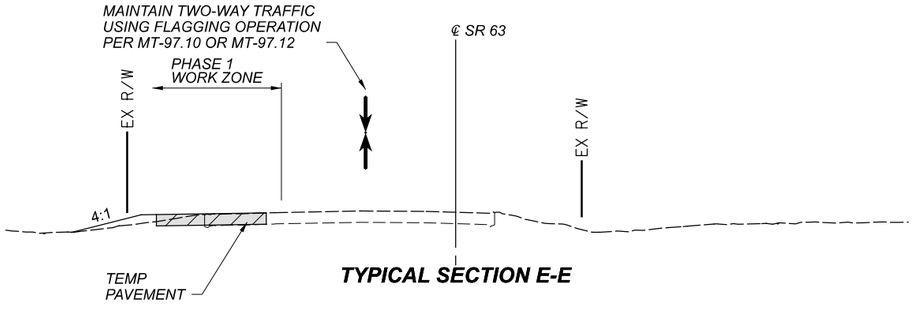
NOTES:

1. FOR LEGEND SEE SHEET 20.

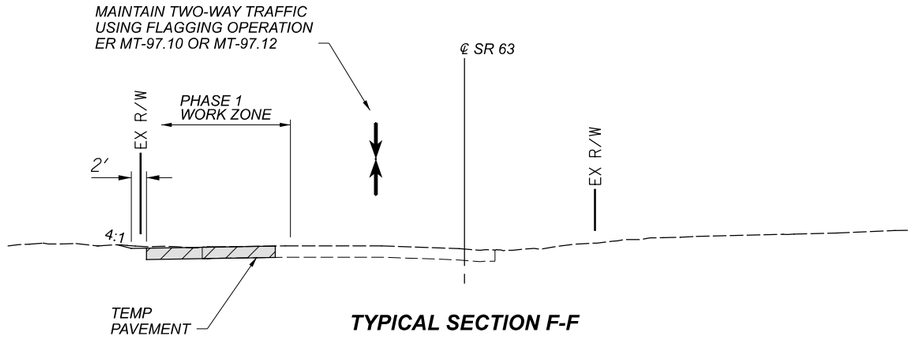


TEMPORARY PAVEMENT WIDTH:

1. STA. 162+50.00 TO STA. 162+70.00, W = 6.5'
2. STA. 162+70.00 TO STA. 164+00.00, W = VARIES FROM 6.5' TO 11.5'
3. STA. 164+00.00 TO STA. 168+25.00, W = 11.5'
4. STA. 168+25.00 TO STA. 170+43.55, W = VARIES FROM 11.5' TO 15.6'
5. STA. 170+43.55 TO STA. 171+00.00, W = VARIES FROM 14.6' TO 15.5'
6. STA. 171+00.00 TO STA. 171+25.00, W = 15.5'
7. STA. 171+25.00 TO STA. 173+00.00, W = 15.0'
8. STA. 173+00.00 TO STA. 178+00.00, W = VARIES FROM 15.0' TO 5.9'
9. STA. 178+00.00 TO STA. 178+50.00, W = VARIES 7.4' TO 6.5'



TYPICAL SECTION E-E



TYPICAL SECTION F-F

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1
SR 63 - STA. 162+50.00 TO STA. 175+00.00

DESIGN AGENCY
JACOBS

DESIGNER
MRP

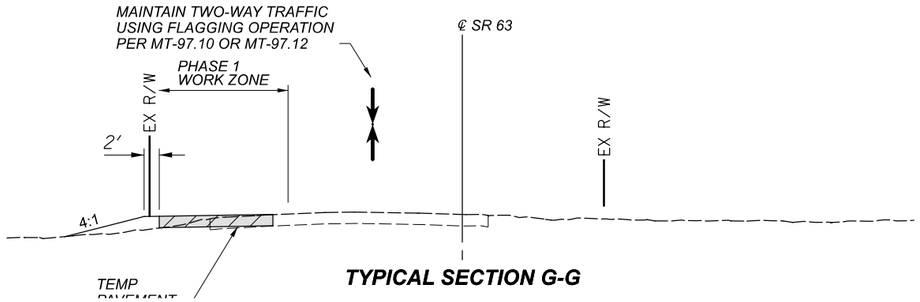
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 30 TOTAL 436

WAR-63-0.83

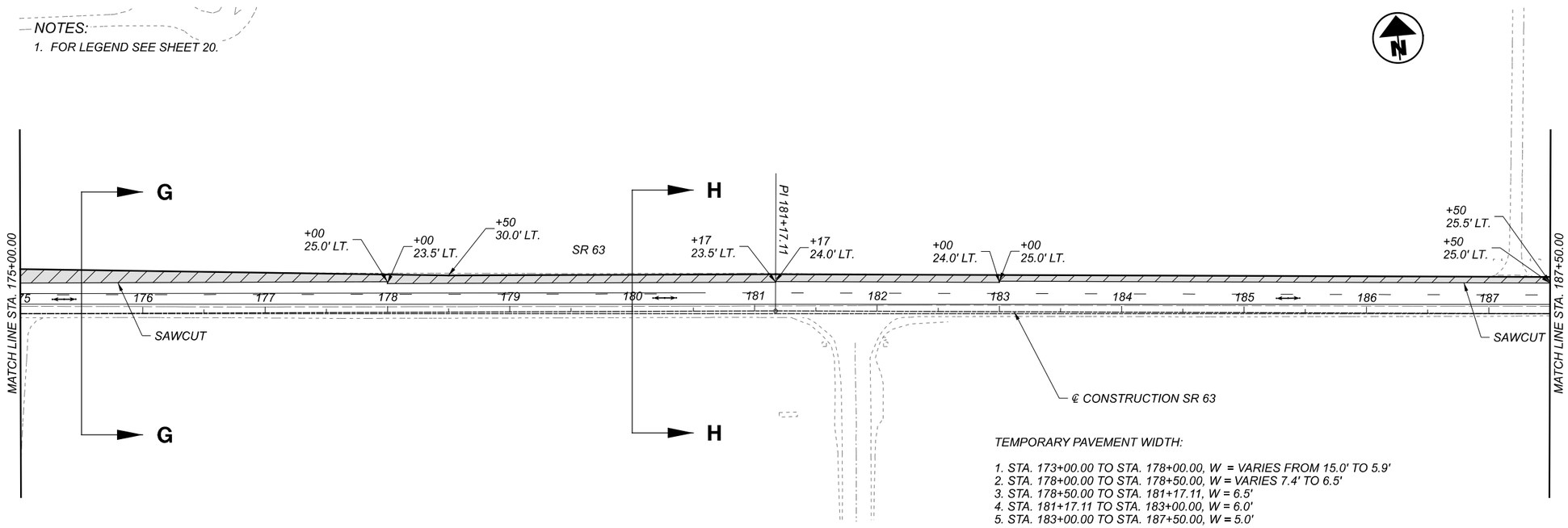
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pw:\\Project=WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\II2I2\400-Engineering\Mo



TYPICAL SECTION G-G

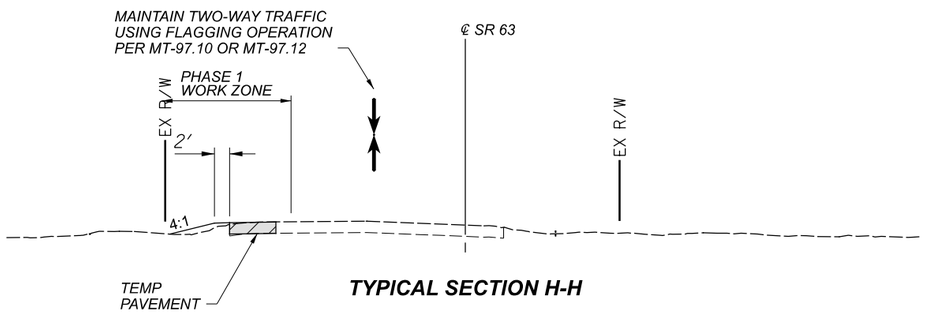
NOTES:

1. FOR LEGEND SEE SHEET 20.



TEMPORARY PAVEMENT WIDTH:

1. STA. 173+00.00 TO STA. 178+00.00, W = VARIES FROM 15.0' TO 5.9'
2. STA. 178+00.00 TO STA. 178+50.00, W = VARIES 7.4' TO 6.5'
3. STA. 178+50.00 TO STA. 181+17.11, W = 6.5'
4. STA. 181+17.11 TO STA. 183+00.00, W = 6.0'
5. STA. 183+00.00 TO STA. 187+50.00, W = 5.0'



TYPICAL SECTION H-H

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1
SR 63 - STA. 175+00.00 TO STA. 187+50.00

DESIGN AGENCY
JACOBS

DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 31 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 7 [Sheet1] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:47:56 PM USER: Tahir.Sondo@jacobs.com
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NOTES:

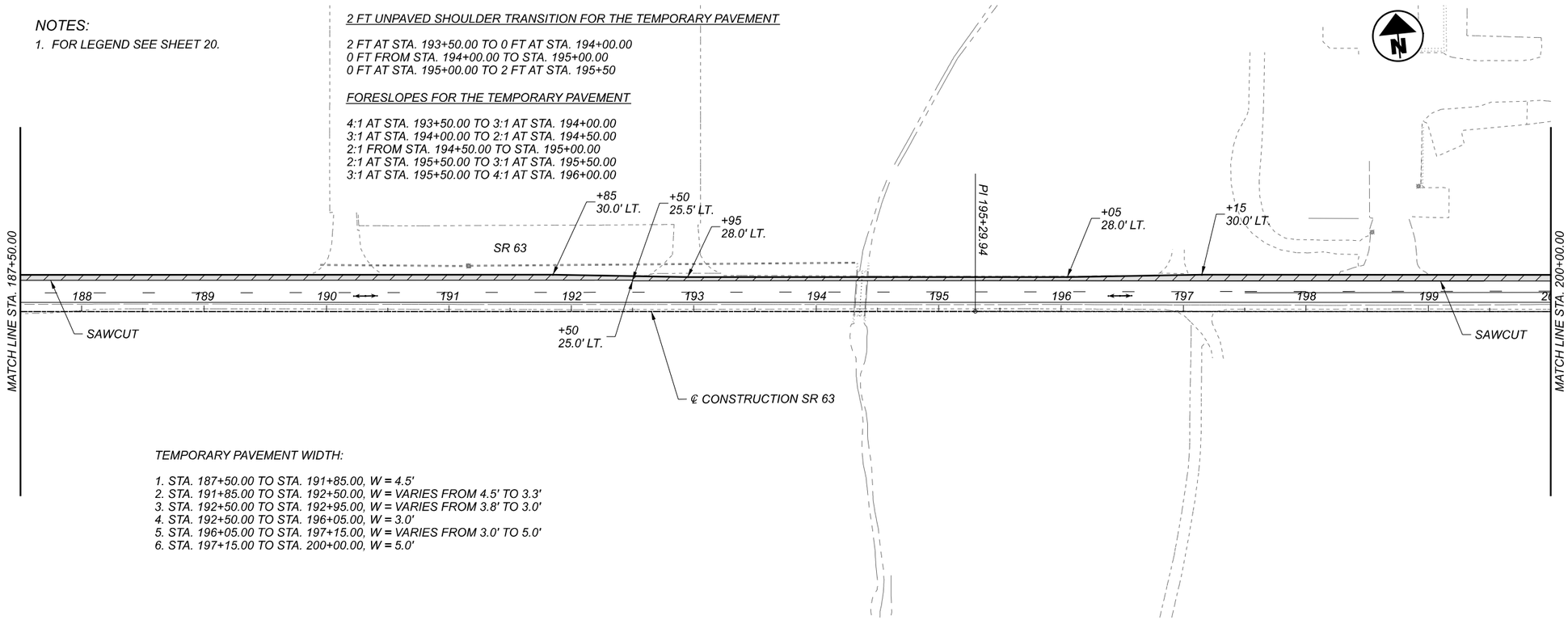
1. FOR LEGEND SEE SHEET 20.

2 FT UNPAVED SHOULDER TRANSITION FOR THE TEMPORARY PAVEMENT

2 FT AT STA. 193+50.00 TO 0 FT AT STA. 194+00.00
0 FT FROM STA. 194+00.00 TO STA. 195+00.00
0 FT AT STA. 195+00.00 TO 2 FT AT STA. 195+50

FORESLOPES FOR THE TEMPORARY PAVEMENT

4:1 AT STA. 193+50.00 TO 3:1 AT STA. 194+00.00
3:1 AT STA. 194+00.00 TO 2:1 AT STA. 194+50.00
2:1 FROM STA. 194+50.00 TO STA. 195+00.00
2:1 AT STA. 195+50.00 TO 3:1 AT STA. 195+50.00
3:1 AT STA. 195+50.00 TO 4:1 AT STA. 196+00.00



TEMPORARY PAVEMENT WIDTH:

1. STA. 187+50.00 TO STA. 191+85.00, W = 4.5'
2. STA. 191+85.00 TO STA. 192+50.00, W = VARIES FROM 4.5' TO 3.3'
3. STA. 192+50.00 TO STA. 192+95.00, W = VARIES FROM 3.8' TO 3.0'
4. STA. 192+50.00 TO STA. 196+05.00, W = 3.0'
5. STA. 196+05.00 TO STA. 197+15.00, W = VARIES FROM 3.0' TO 5.0'
6. STA. 197+15.00 TO STA. 200+00.00, W = 5.0'

HORIZONTAL SCALE IN FEET
0 25 50 100

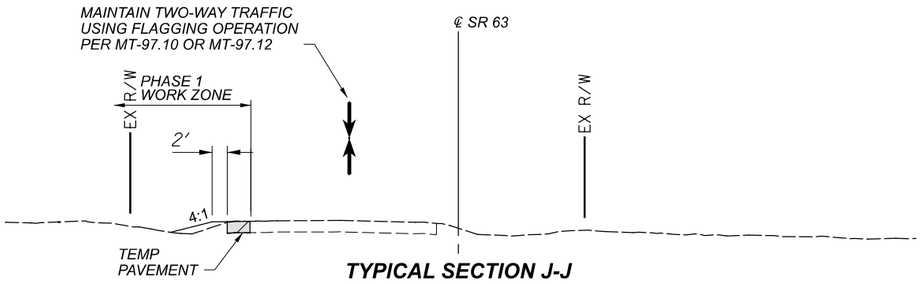
MAINTENANCE OF TRAFFIC - PHASE 1
SR 63 - STA. 187+50.00 TO STA. 200+00.00

DESIGN AGENCY
JACOBS

DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 32 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 8 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:47:57 PM USER: Tahir.Sondo@jacobs.com
pw:\\Project:WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\11212\1400-Engineering\MOT\Sheets\11212L_MP10i.dgn



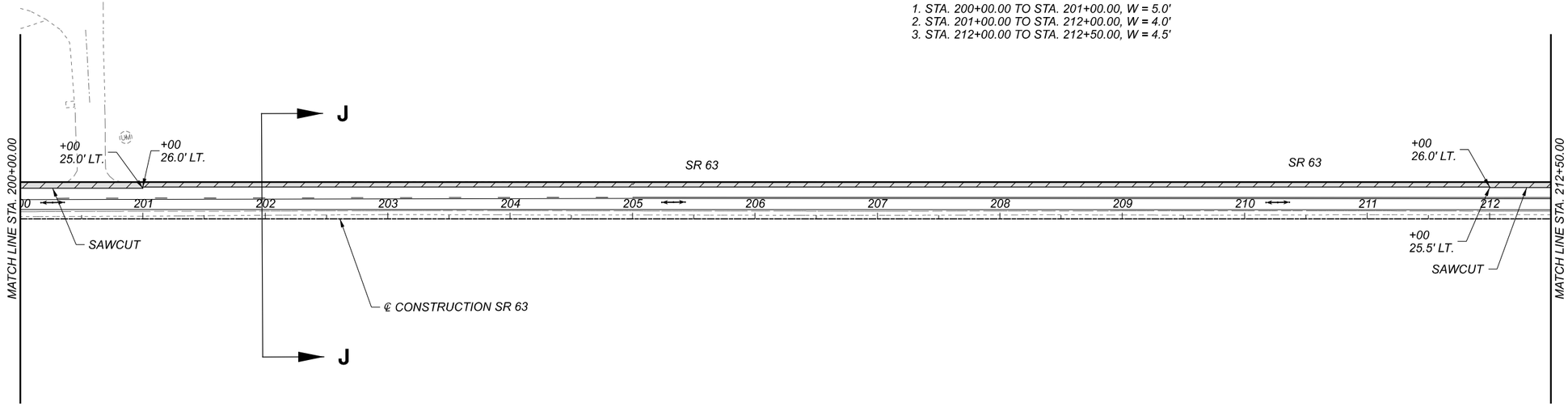
TYPICAL SECTION J-J

NOTES:

1. FOR LEGEND SEE SHEET 20.

TEMPORARY PAVEMENT WIDTH:

1. STA. 200+00.00 TO STA. 201+00.00, W = 5.0'
2. STA. 201+00.00 TO STA. 212+00.00, W = 4.0'
3. STA. 212+00.00 TO STA. 212+50.00, W = 4.5'



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1
SR 63 - STA. 200+00.00 TO STA. 212+50.00

DESIGN AGENCY
JACOBS

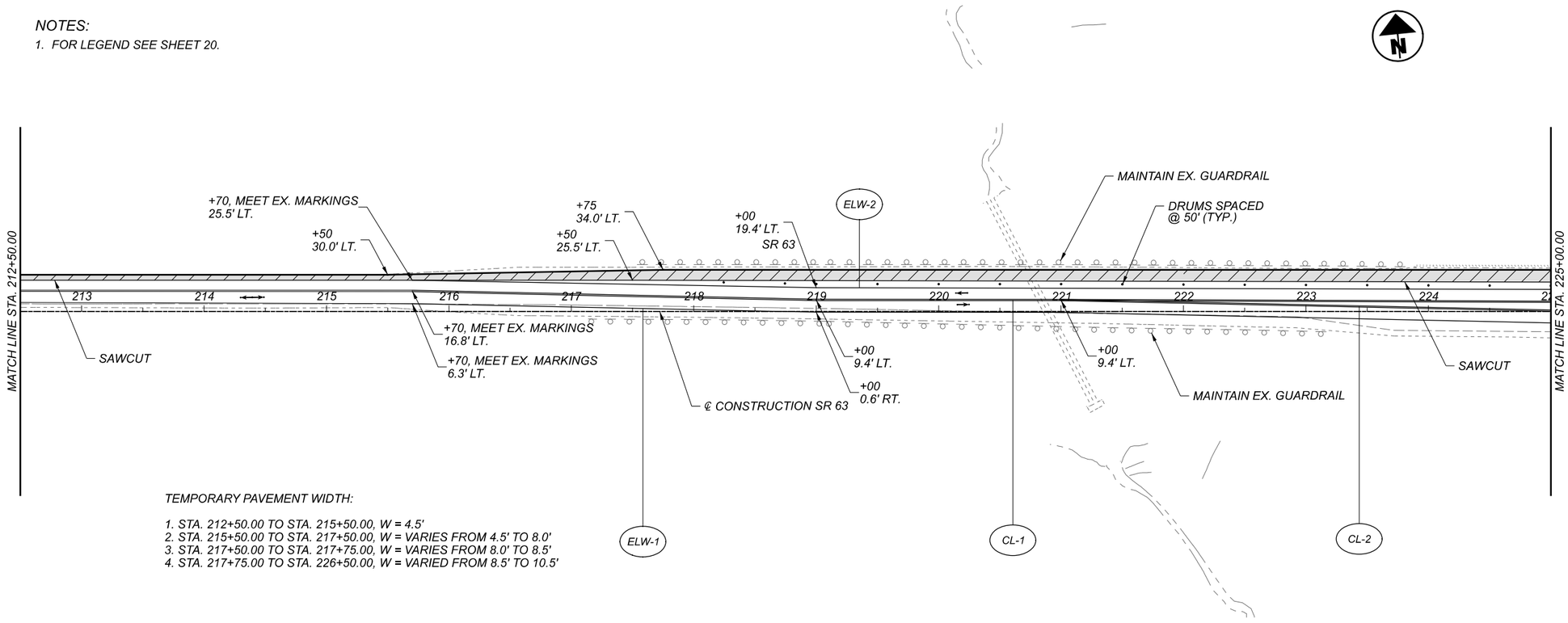
DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	33
TOTAL	436

WAR-63-0.83

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pw:\\ProjectWiseAMER.Jacobs.com:DEN003\Documents\C6AI8200 - SR 63 Reconstruction\Design\112121\400-Engineering\MOT\Sheets\112121_MPI0i.dgn

NOTES:

1. FOR LEGEND SEE SHEET 20.



TEMPORARY PAVEMENT WIDTH:

1. STA. 212+50.00 TO STA. 215+50.00, W = 4.5'
2. STA. 215+50.00 TO STA. 217+50.00, W = VARIES FROM 4.5' TO 8.0'
3. STA. 217+50.00 TO STA. 226+50.00, W = VARIES FROM 8.0' TO 8.5'
4. STA. 217+75.00 TO STA. 226+50.00, W = VARIED FROM 8.5' TO 10.5'

HORIZONTAL SCALE IN FEET
0 25 50 100

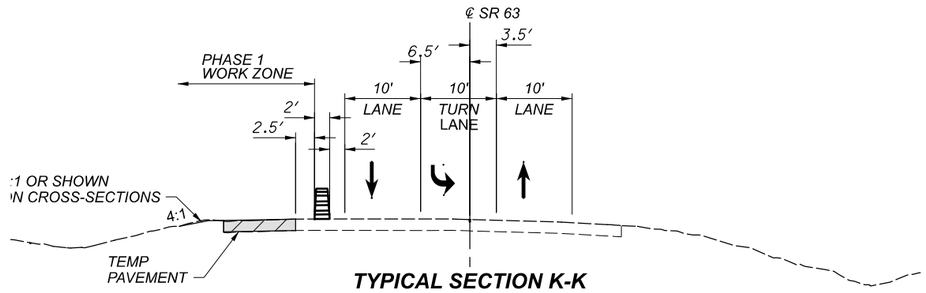
MAINTENANCE OF TRAFFIC - PHASE 1
SR 63 - STA. 212+50.00 TO STA. 225+00.00

DESIGN AGENCY
JACOBS

DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	34
TOTAL	436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 10 [Sheet1] PAPERSIZE:17x11(in.) DATE:8/23/2023 TIME:1:48:01 PM USER:Tahir.Sondo@Jacobs.com
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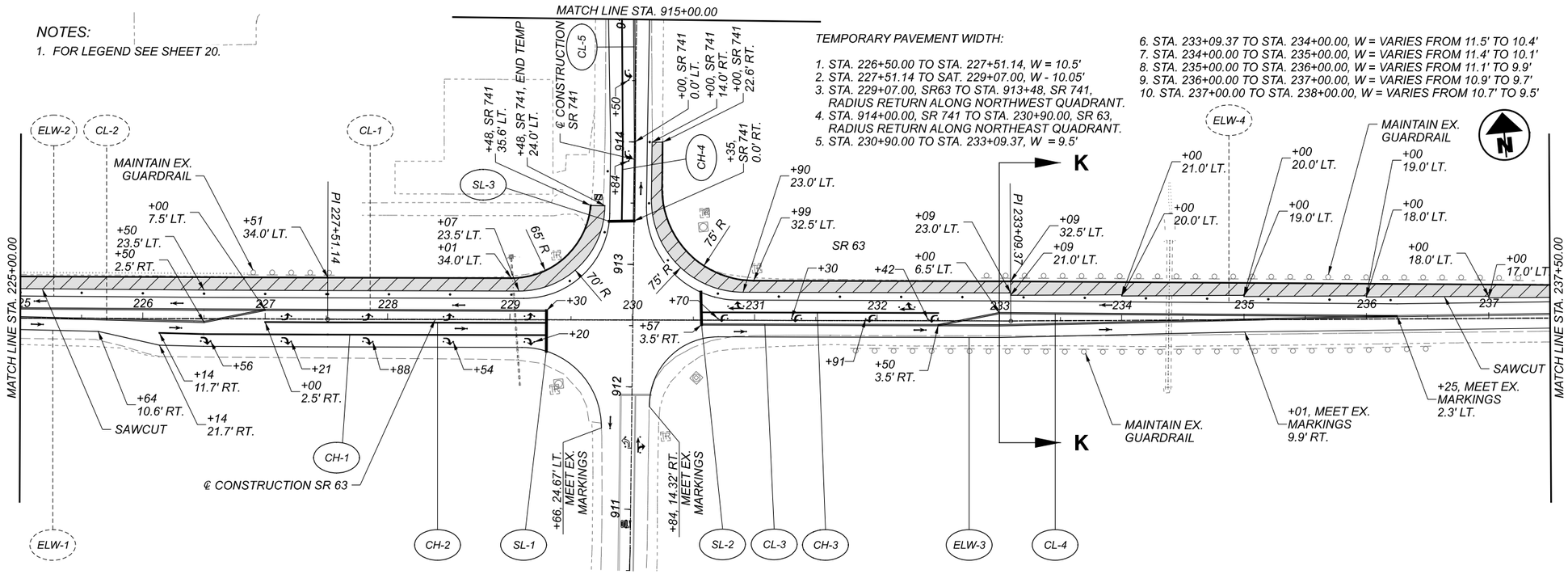
TYPICAL SECTION K-K

NOTES:

1. FOR LEGEND SEE SHEET 20.

TEMPORARY PAVEMENT WIDTH:

1. STA. 226+50.00 TO STA. 227+51.14, W = 10.5'
2. STA. 227+51.14 TO SAT. 229+07.00, W - 10.05'
3. STA. 229+07.00, SR63 TO STA. 913+48, SR 741, RADIUS RETURN ALONG NORTHWEST QUADRANT.
4. STA. 914+00.00, SR 741 TO STA. 230+90.00, SR 63, RADIUS RETURN ALONG NORTHEAST QUADRANT.
5. STA. 230+90.00 TO STA. 233+09.37, W = 9.5'
6. STA. 233+09.37 TO STA. 234+00.00, W = VARIES FROM 11.5' TO 10.4'
7. STA. 234+00.00 TO STA. 235+00.00, W = VARIES FROM 11.4' TO 10.1'
8. STA. 235+00.00 TO STA. 236+00.00, W = VARIES FROM 11.1' TO 9.9'
9. STA. 236+00.00 TO STA. 237+00.00, W = VARIES FROM 10.9' TO 9.7'
10. STA. 237+00.00 TO STA. 238+00.00, W = VARIES FROM 10.7' TO 9.5'



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1
SR 63 - STA. 225+00.00 TO STA. 237+50.00

DESIGN AGENCY
JACOBS

DESIGNER
MRP

REVIEWER
RN 08/22/23

PROJECT ID
112121

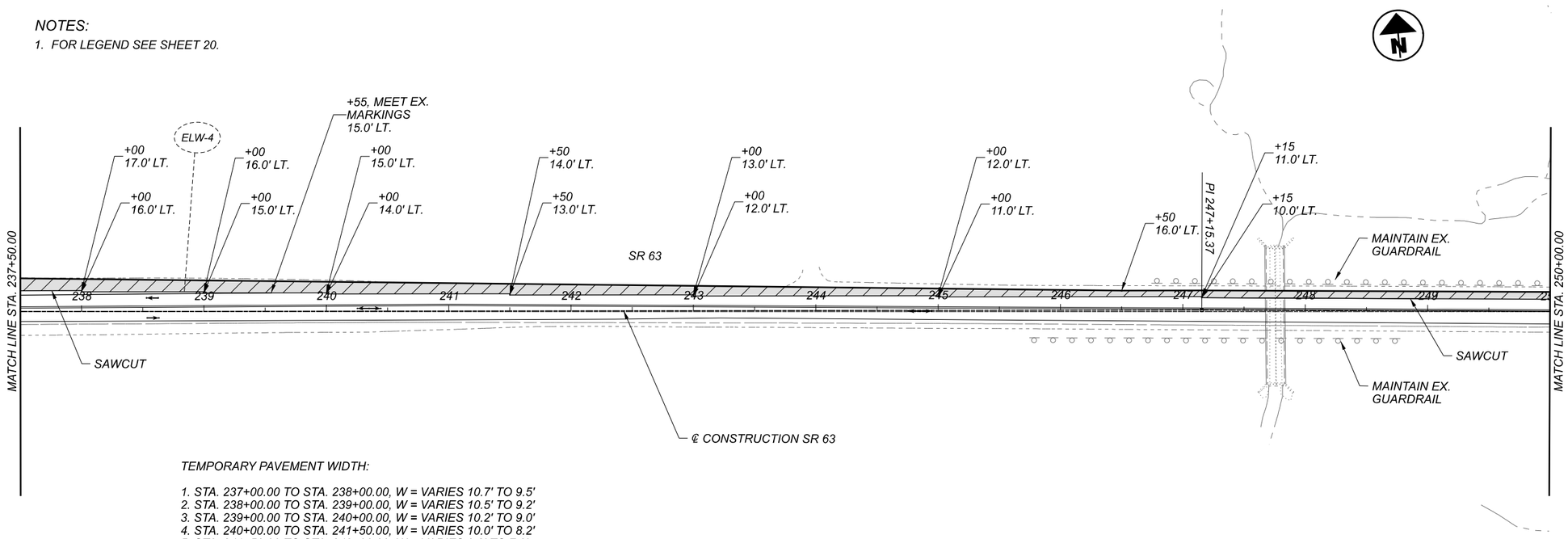
SHEET 35 TOTAL 436

WAR-63-0.83

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pw:\\Project=WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\II2|2\400-Engineering\MOT\Sheets\II2|2_MPI0i.dgn

NOTES:

1. FOR LEGEND SEE SHEET 20.



TEMPORARY PAVEMENT WIDTH:

1. STA. 237+00.00 TO STA. 238+00.00, W = VARIES 10.7' TO 9.5'
2. STA. 238+00.00 TO STA. 239+00.00, W = VARIES 10.5' TO 9.2'
3. STA. 239+00.00 TO STA. 240+00.00, W = VARIES 10.2' TO 9.0'
4. STA. 240+00.00 TO STA. 241+50.00, W = VARIES 10.0' TO 8.2'
5. STA. 241+50.00 TO STA. 243+00.00, W = VARIES 9.2' TO 7.3'
6. STA. 243+00.00 TO STA. 245+00.00, W = VARIES 8.3' TO 5.8'
7. STA. 245+00.00 TO STA. 246+50.00, W = VARIES 6.8' TO 5.0'
8. STA. 246+50.00 TO STA. 247+15.37, W = 5.0'
9. STA. 247+15.37 TO STA. 251+00.00, W = 6.0'

HORIZONTAL SCALE IN FEET
0 25 50 100

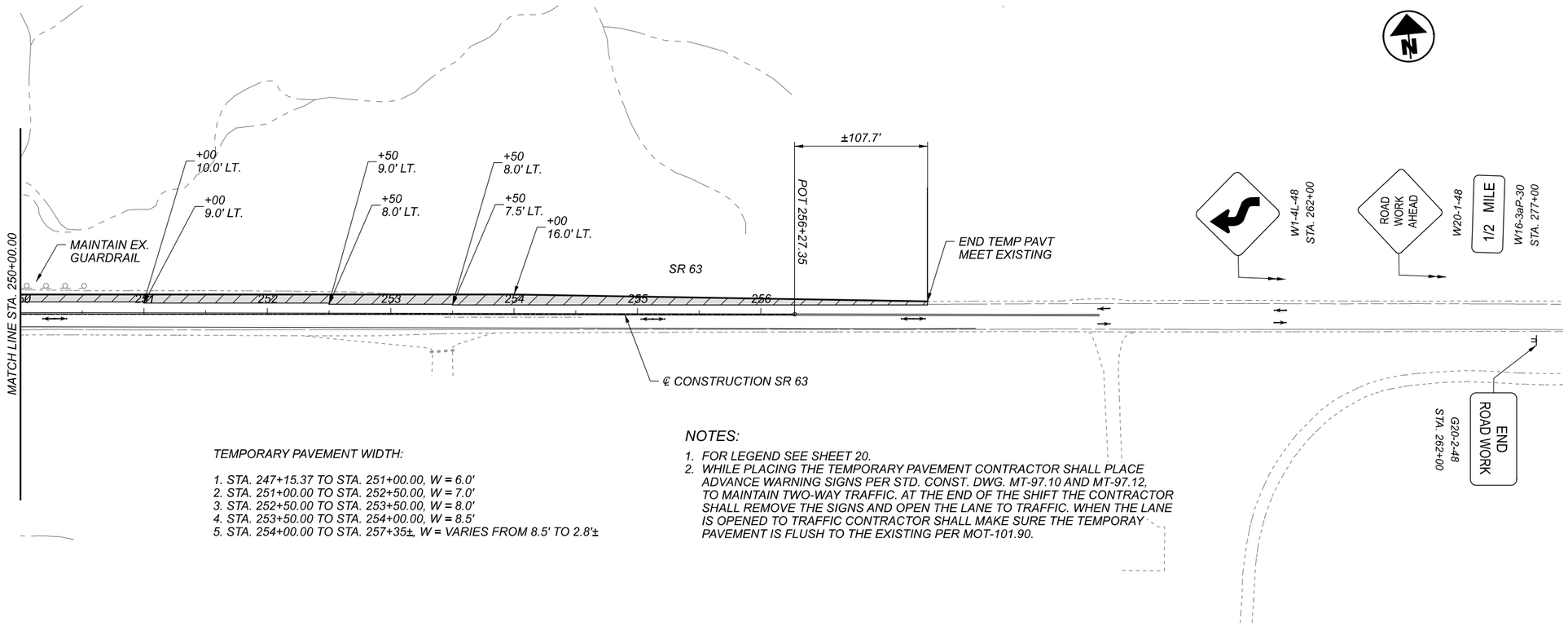
MAINTENANCE OF TRAFFIC - PHASE 1
SR 63 - STA. 237+50.00 TO STA. 250+00.00

DESIGN AGENCY
JACOBS

DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	36
TOTAL	436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 12 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:48:04 PM USER: Tahir.Sondo@jacobs.com
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TEMPORARY PAVEMENT WIDTH:

1. *STA. 247+15.37 TO STA. 251+00.00, W = 6.0'*
2. *STA. 251+00.00 TO STA. 252+50.00, W = 7.0'*
3. *STA. 252+50.00 TO STA. 253+50.00, W = 8.0'*
4. *STA. 253+50.00 TO STA. 254+00.00, W = 8.5'*
5. *STA. 254+00.00 TO STA. 257+35±, W = VARIES FROM 8.5' TO 2.8'±*

NOTES:

1. *FOR LEGEND SEE SHEET 20.*
2. *WHILE PLACING THE TEMPORARY PAVEMENT CONTRACTOR SHALL PLACE ADVANCE WARNING SIGNS PER STD. CONST. DWG. MT-97.10 AND MT-97.12, TO MAINTAIN TWO-WAY TRAFFIC. AT THE END OF THE SHIFT THE CONTRACTOR SHALL REMOVE THE SIGNS AND OPEN THE LANE TO TRAFFIC. WHEN THE LANE IS OPENED TO TRAFFIC CONTRACTOR SHALL MAKE SURE THE TEMPORAY PAVEMENT IS FLUSH TO THE EXISTING PER MOT-101.90.*

HORIZONTAL SCALE IN FEET
0 25 50 100

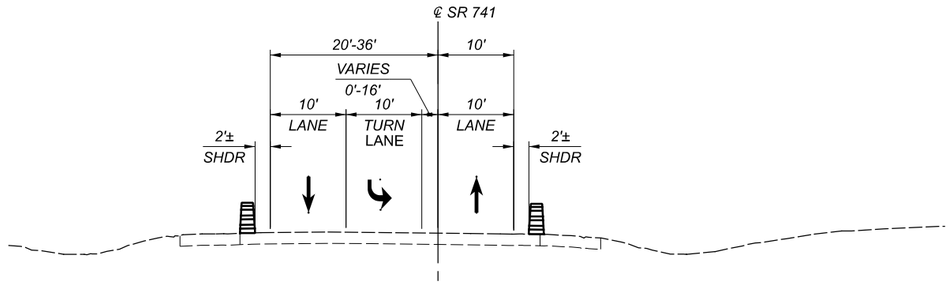
MAINTENANCE OF TRAFFIC - PHASE 1
SR 63 - STA. 250+00.00 TO STA. 262+50.00

DESIGN AGENCY
JACOBS

DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 37 TOTAL 436

WAR-63-0.83

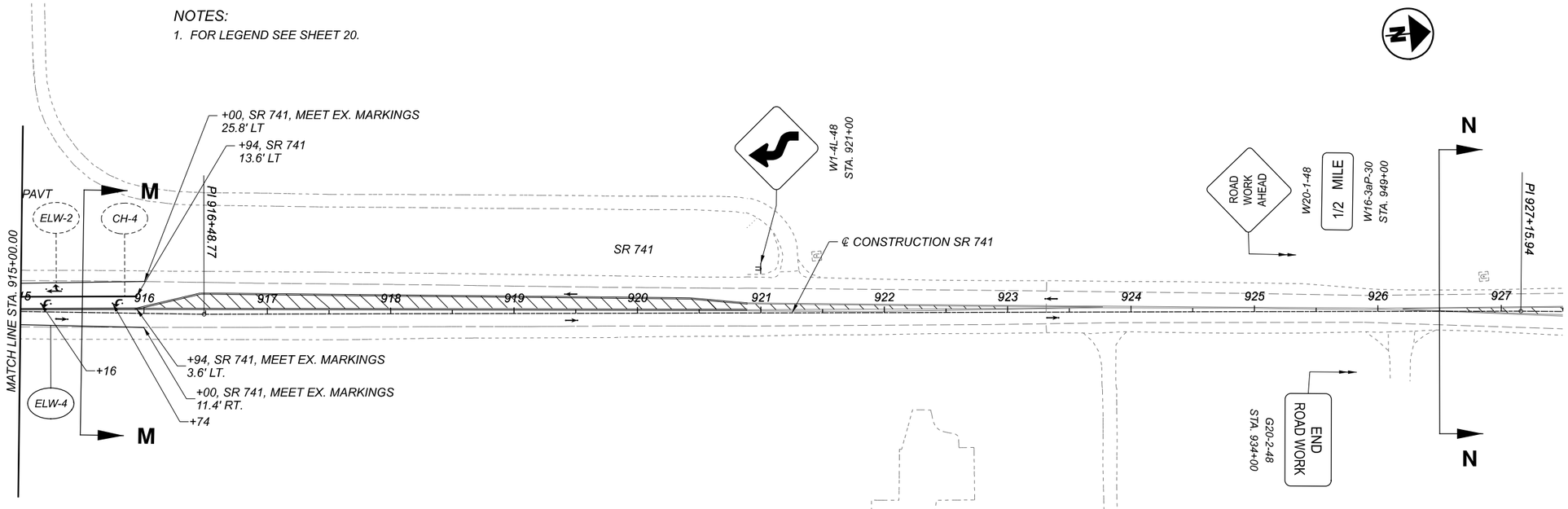
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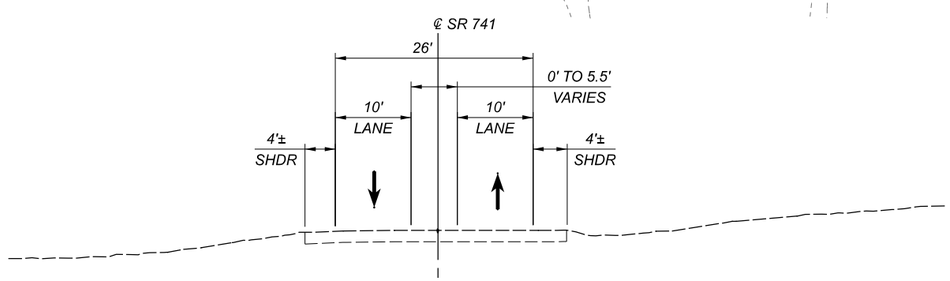


TYPICAL SECTION M-M

NOTES:

1. FOR LEGEND SEE SHEET 20.





TYPICAL SECTION N-N

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1
SR 741 - STA. 915+00.00 TO STA. 927+50.00

DESIGN AGENCY
JACOBS

DESIGNER
MRP

REVIEWER
RN 08/22/23

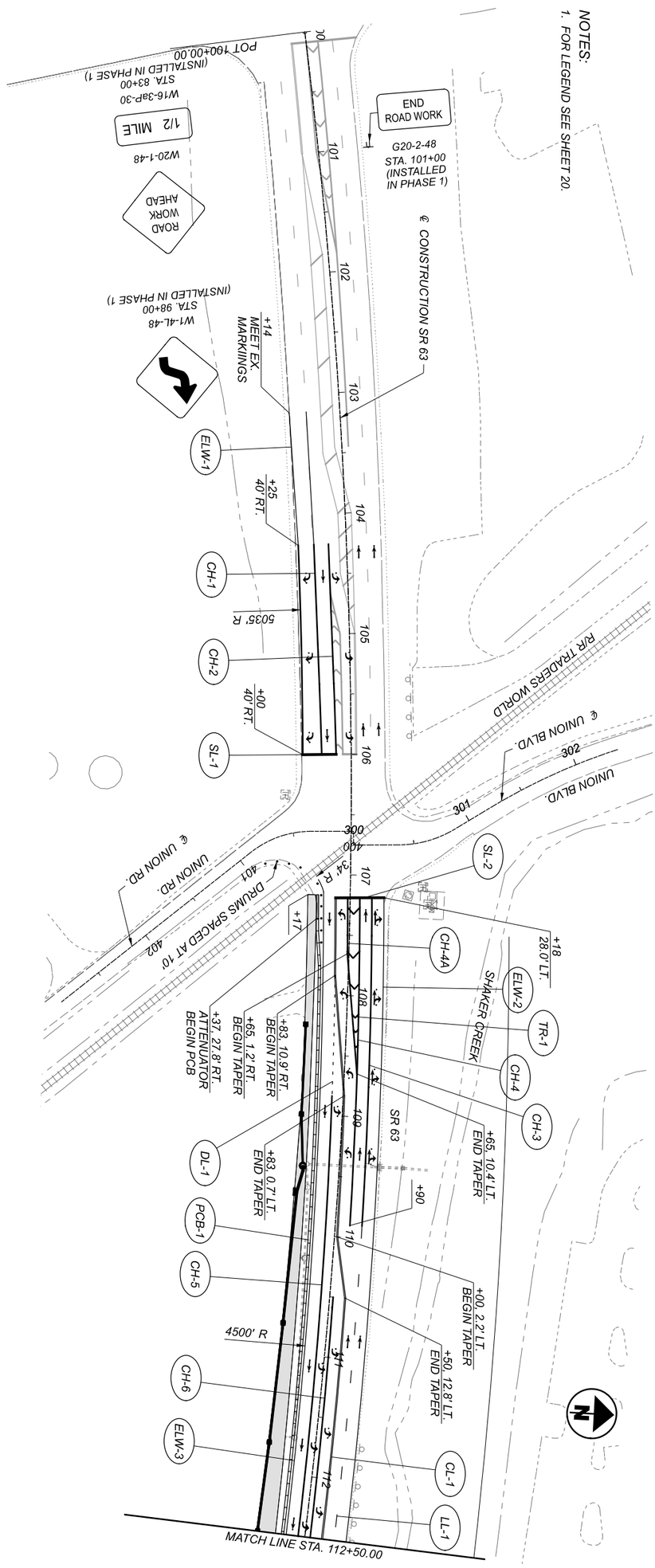
PROJECT ID
112121

SHEET 38 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR74IF - Plan (5 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:48:20 PM USER: Tahir.Sondo@Jacobs.com
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MODEL: CLP_SR63 - Plan 1- SR 63 Stage 1(Sheet) PAPERSIZE: 17x11(In.) DATE: 8/23/2023 TIME: 1:48:47 PM USER: Tahir.Sondo@jacobs.com
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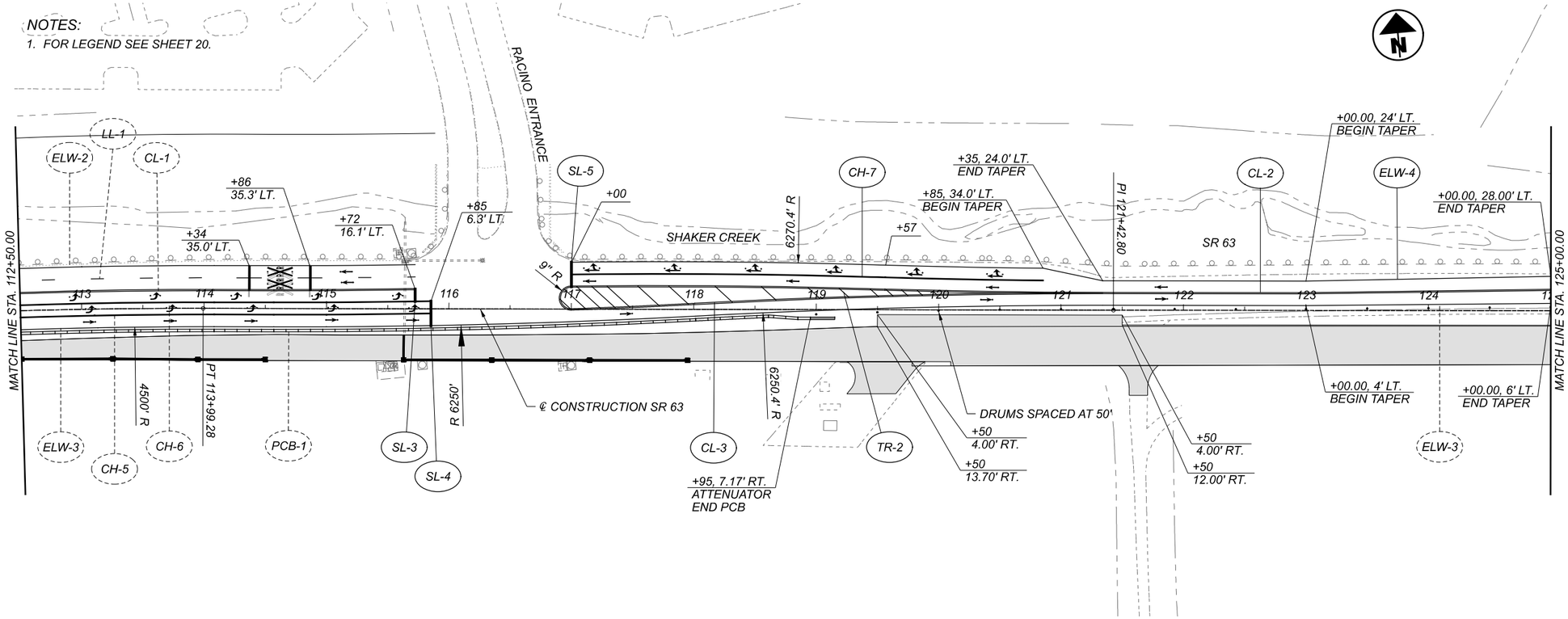


SHEET 39 / TOTAL 436	PROJECT ID 112121	DESIGNER MRP REVIEWER RN 08/22/23	DESIGN AGENCY JACOBS

MAINTENANCE OF TRAFFIC - PHASE 2
SR 63 - STA. 100+00.00 TO STA. 112+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100

NOTES:
1. FOR LEGEND SEE SHEET 20.



HORIZONTAL SCALE IN FEET
0 25 50 100

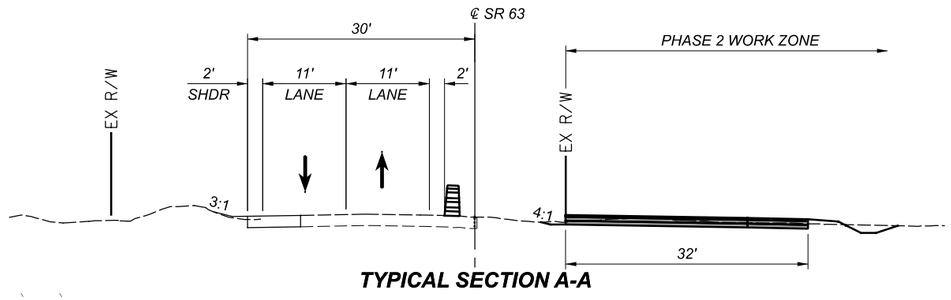
MAINTENANCE OF TRAFFIC - PHASE 2
SR 63 - STA. 112+50.00 TO STA. 125+00.00

DESIGN AGENCY
JACOBS

DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	40
TOTAL	436

WAR-63-0.83

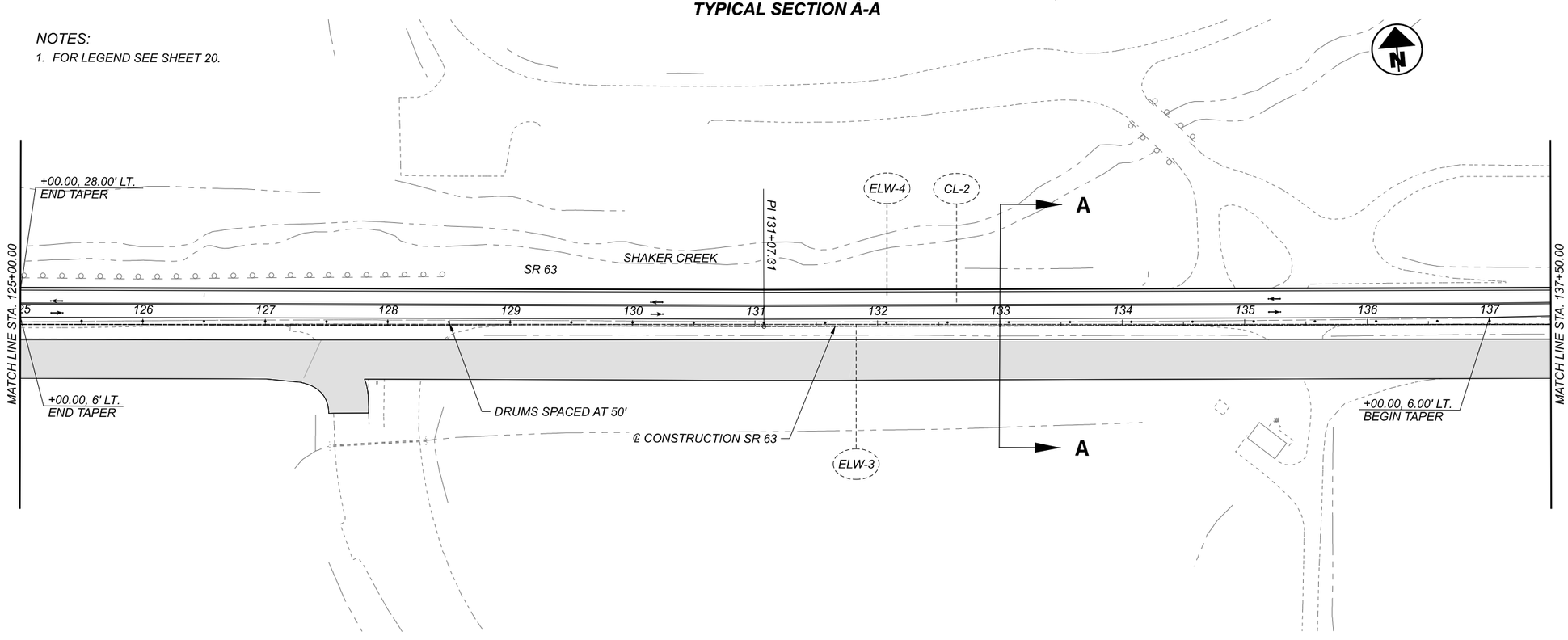
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TYPICAL SECTION A-A

NOTES:

1. FOR LEGEND SEE SHEET 20.



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
SR 63 - STA. 125+00.00 TO STA. 137+50.00

DESIGN AGENCY
JACOBS

DESIGNER
MRP

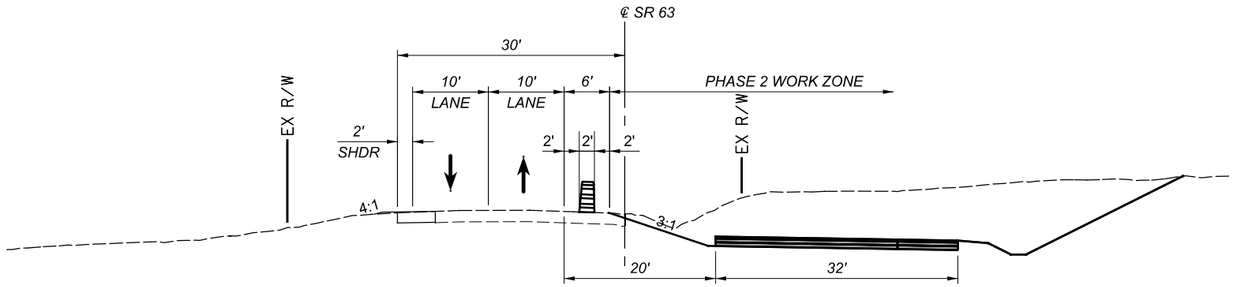
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 41 TOTAL 436

WAR-63-0.83

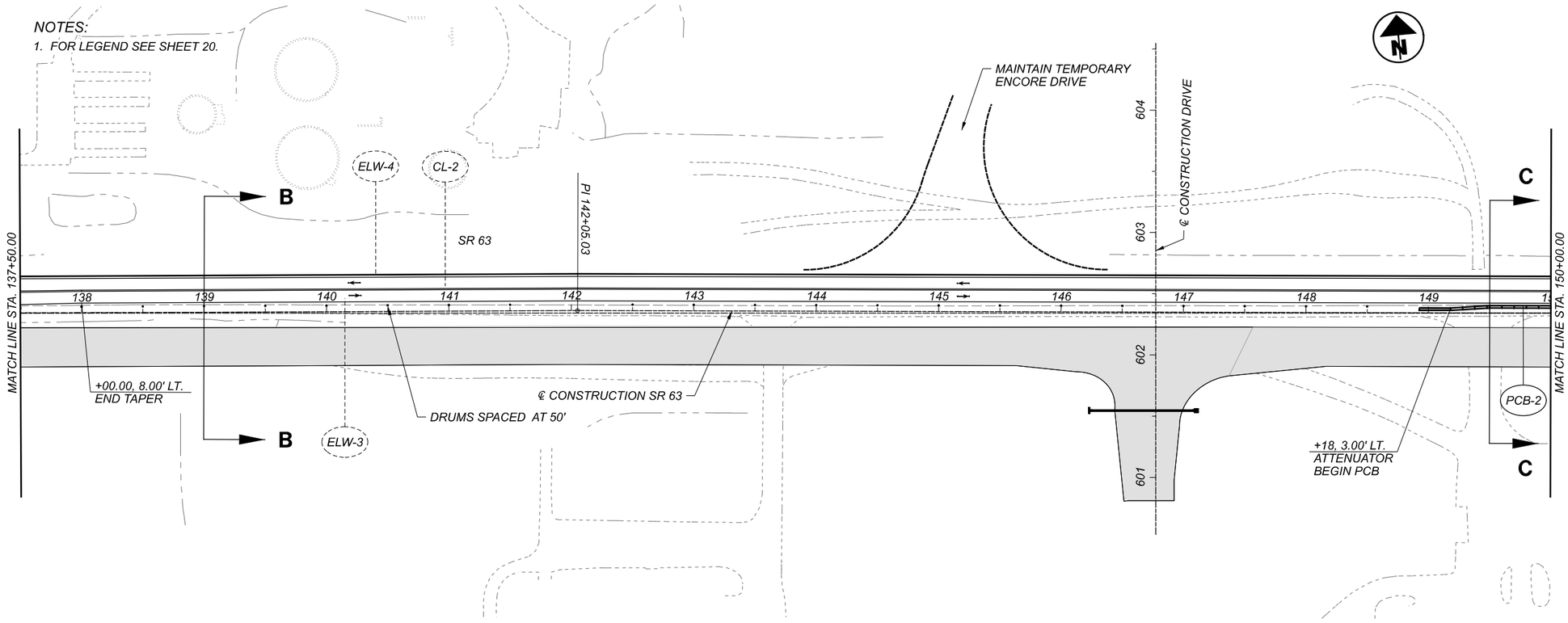
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pw:\\Project=WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\MOT\Sheets\112121_MP20i.dgn

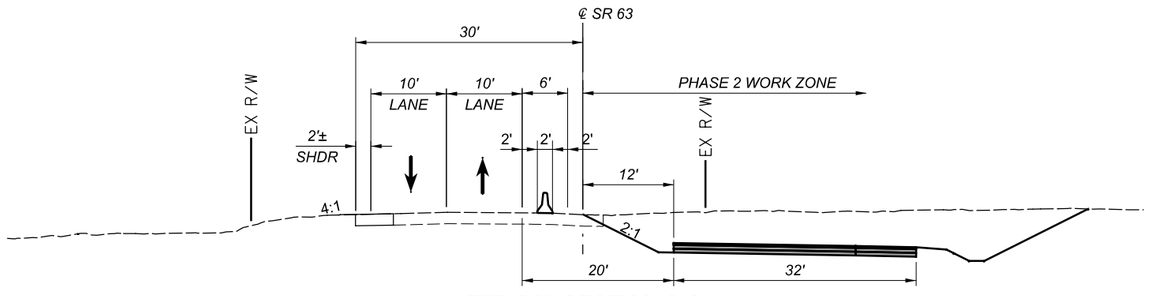


TYPICAL SECTION B-B

NOTES:

1. FOR LEGEND SEE SHEET 20.





TYPICAL SECTION C-C

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
SR 63 - STA. 137+50.00 TO STA. 150+00.00

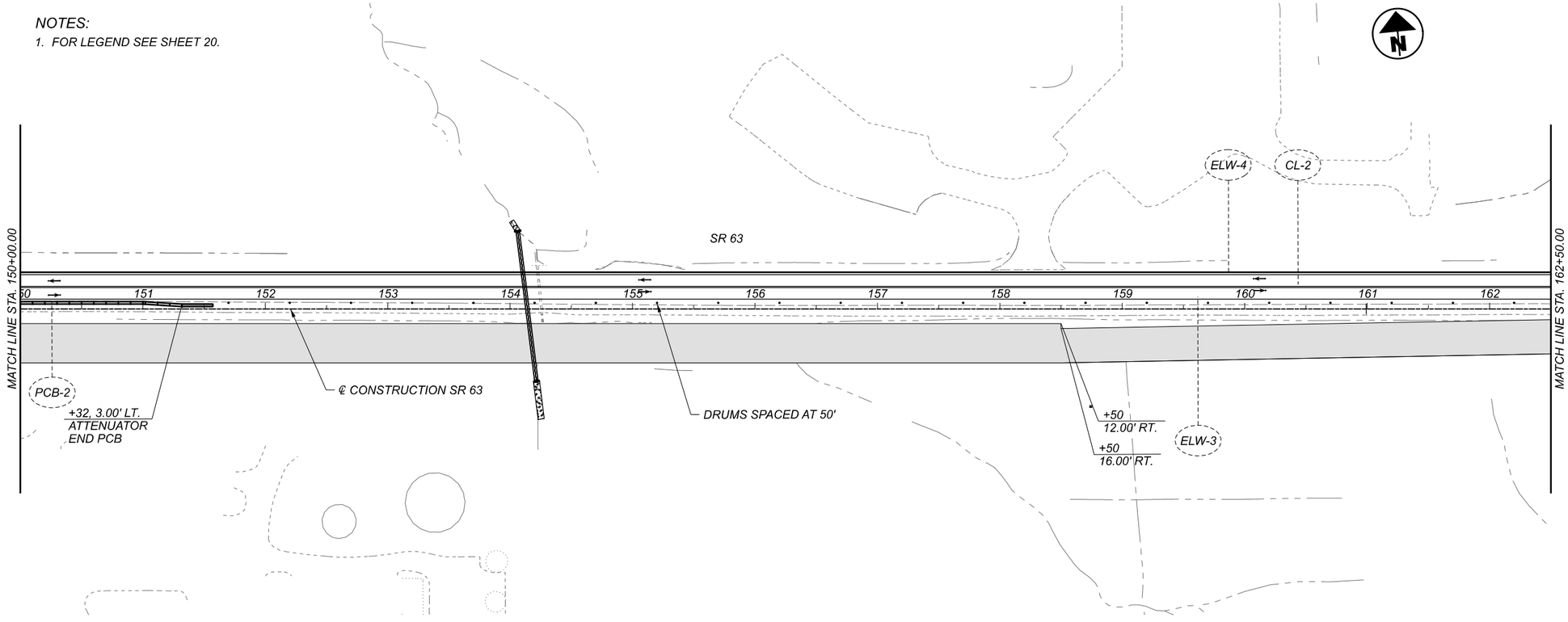
DESIGN AGENCY	JACOBS
DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	42
TOTAL	436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 1- SR 63 Stage 4 (Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:48:54 PM USER: Tahir.Sandoo@jacobs.com
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NOTES:

1. FOR LEGEND SEE SHEET 20.



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
SR 63 - STA. 150+00.00 TO STA. 162+50.00

DESIGN AGENCY
JACOBS

DESIGNER
MRP

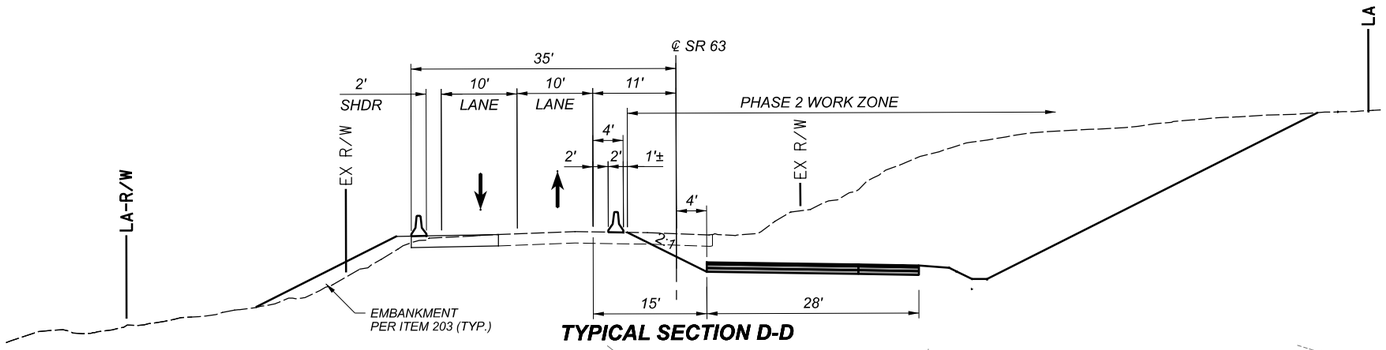
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 43 | TOTAL 436

WAR-63-0.83

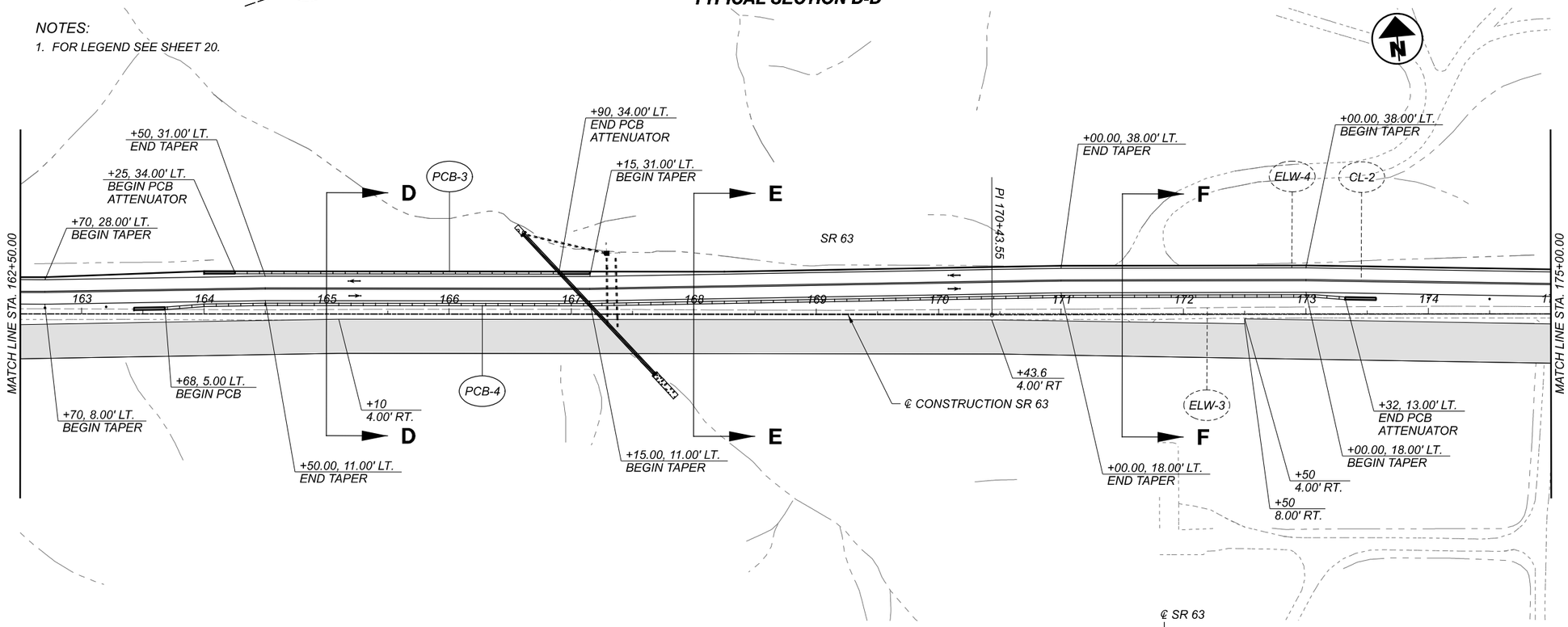
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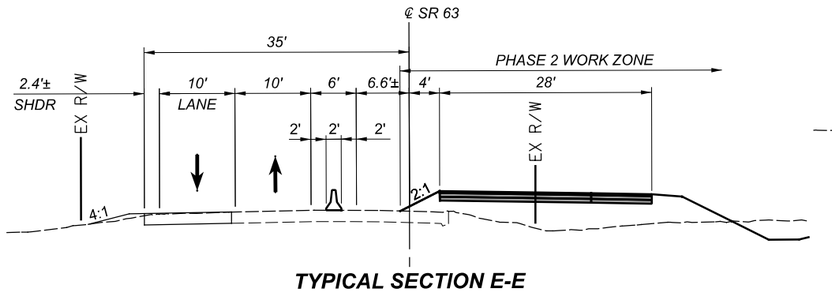


TYPICAL SECTION D-D

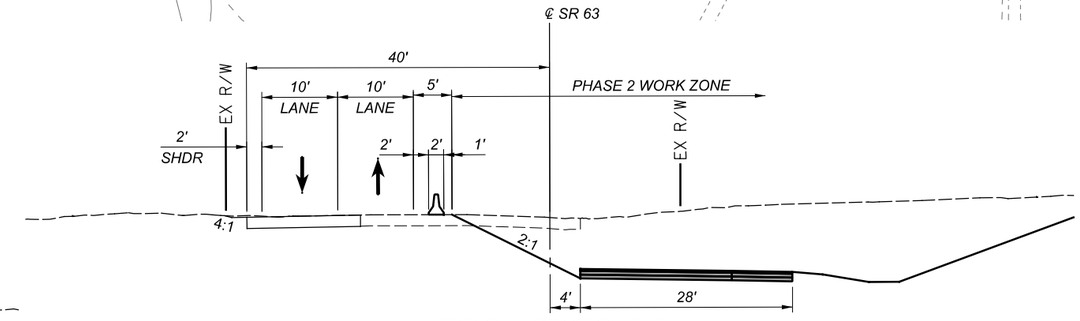
NOTES:

1. FOR LEGEND SEE SHEET 20.





TYPICAL SECTION E-E



TYPICAL SECTION F-F

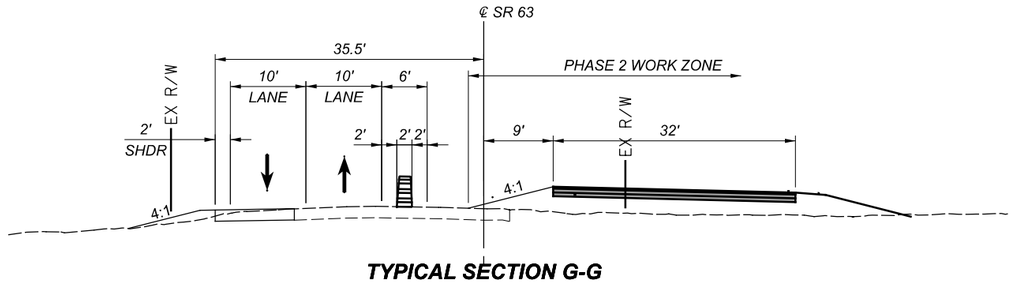
HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
SR 63 - STA. 162+50.00 TO STA. 175+00.00

DESIGN AGENCY	JACOBS
DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	44
TOTAL	436

WAR-63-0.83

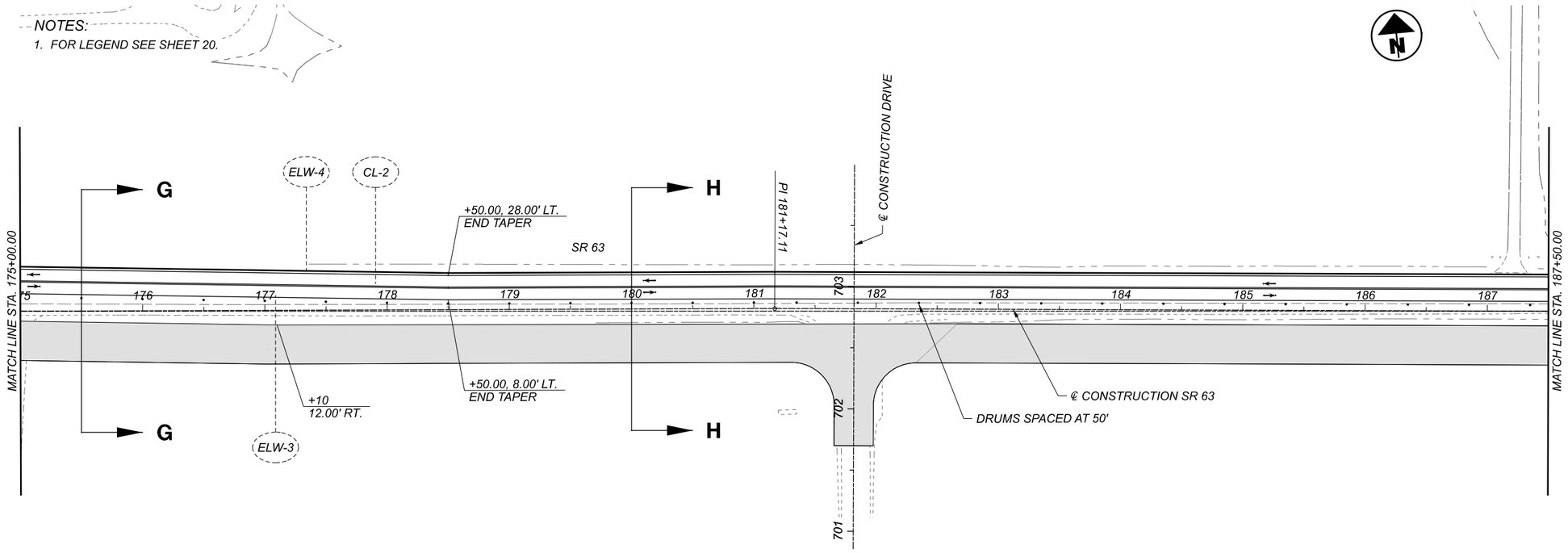
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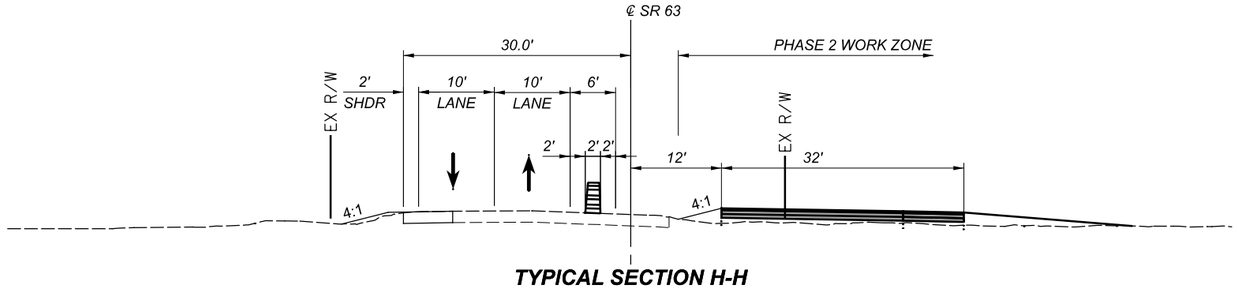


TYPICAL SECTION G-G

NOTES:

1. FOR LEGEND SEE SHEET 20.





TYPICAL SECTION H-H

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
SR 63 - STA. 175+00.00 TO STA. 187+50.00

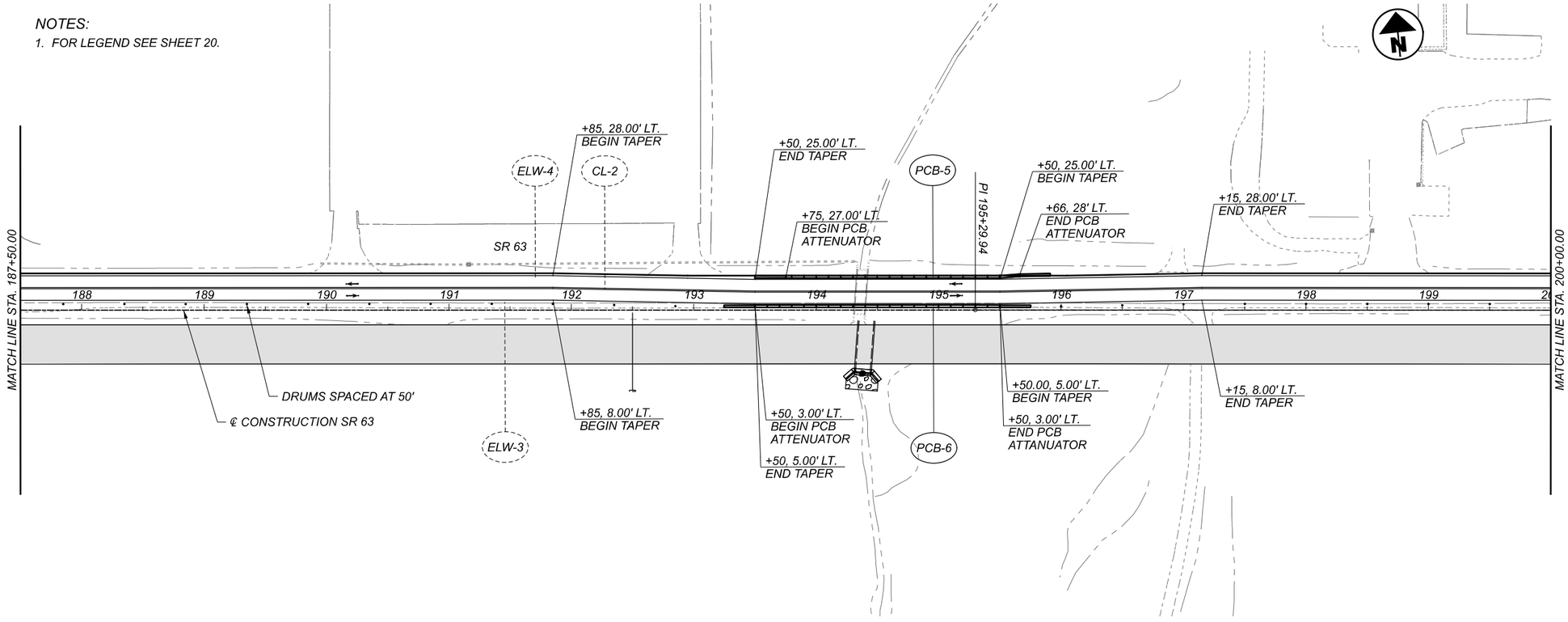
DESIGN AGENCY	JACOBS
DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	45
TOTAL	436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 1- SR 63 Stage 7 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:49:01 PM USER: Tahir.Sondo@Jacobs.com
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NOTES:

1. FOR LEGEND SEE SHEET 20.



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
SR 63 - STA. 187+50.00 TO STA. 200+00.00

DESIGN AGENCY
JACOBS

DESIGNER
MRP

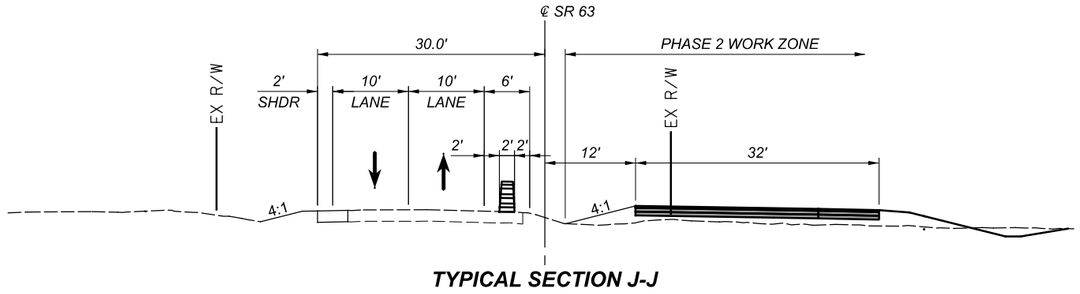
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 46 TOTAL 436

WAR-63-0.83

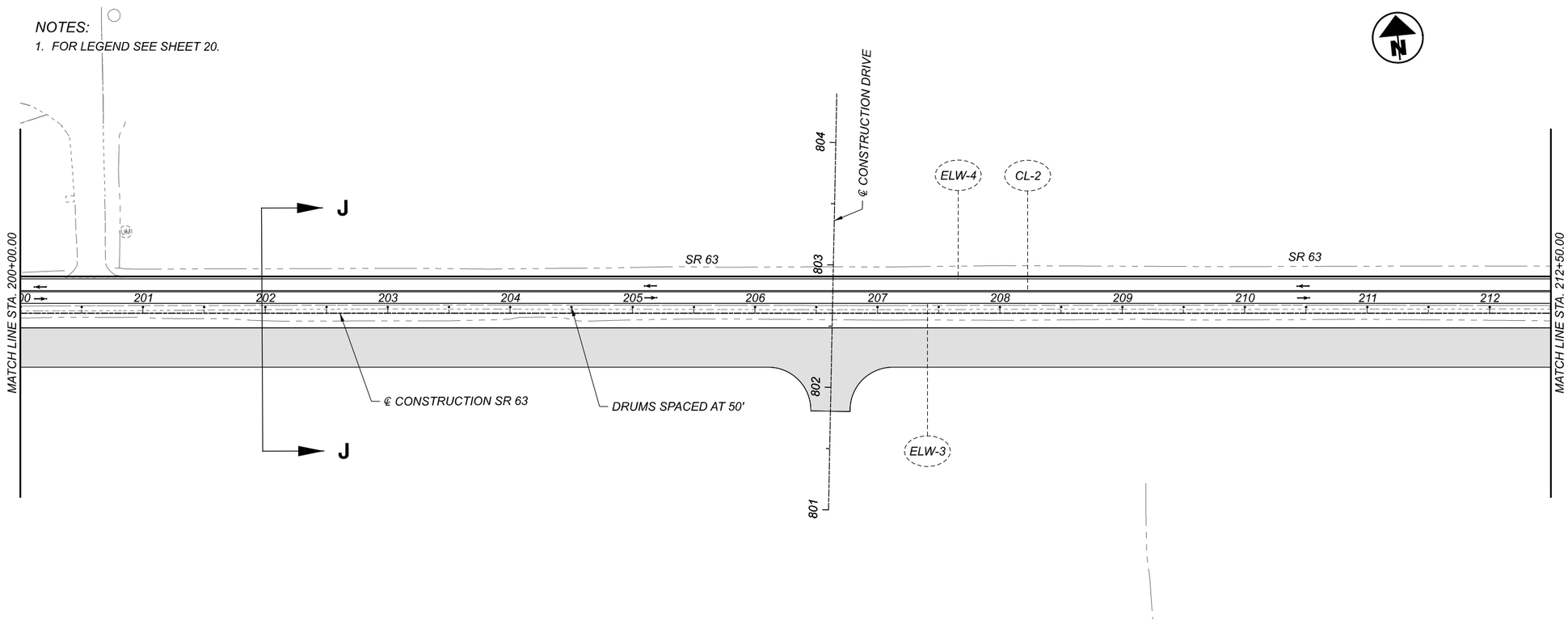
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TYPICAL SECTION J-J

NOTES:

1. FOR LEGEND SEE SHEET 20.



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
SR 63 - STA. 200+00.00 TO STA. 212+50.00

DESIGN AGENCY
JACOBS

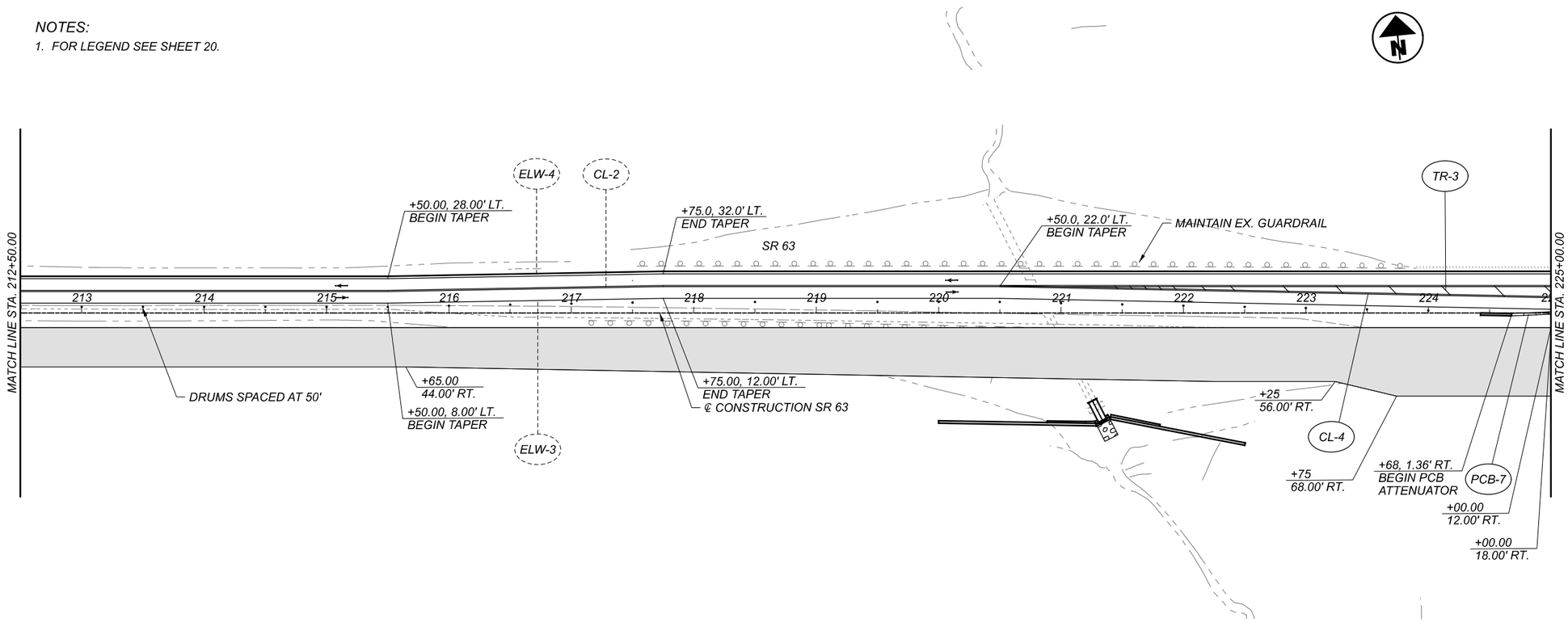
DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 47 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 1- SR 63 Stage 9 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:49:06 PM USER: Tahir.Sondo@jacobs.com
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NOTES:

1. FOR LEGEND SEE SHEET 20.



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
SR 63 - STA. 212+50.00 TO STA. 225+00.00

DESIGN AGENCY
JACOBS

DESIGNER
MRP

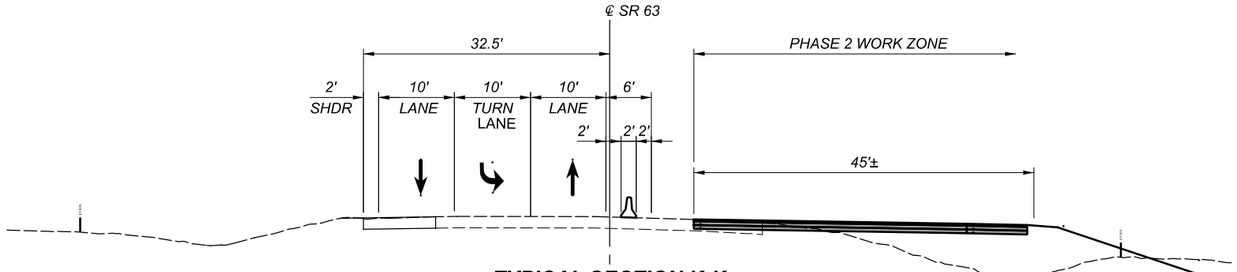
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 48 TOTAL 436

WAR-63-0.83

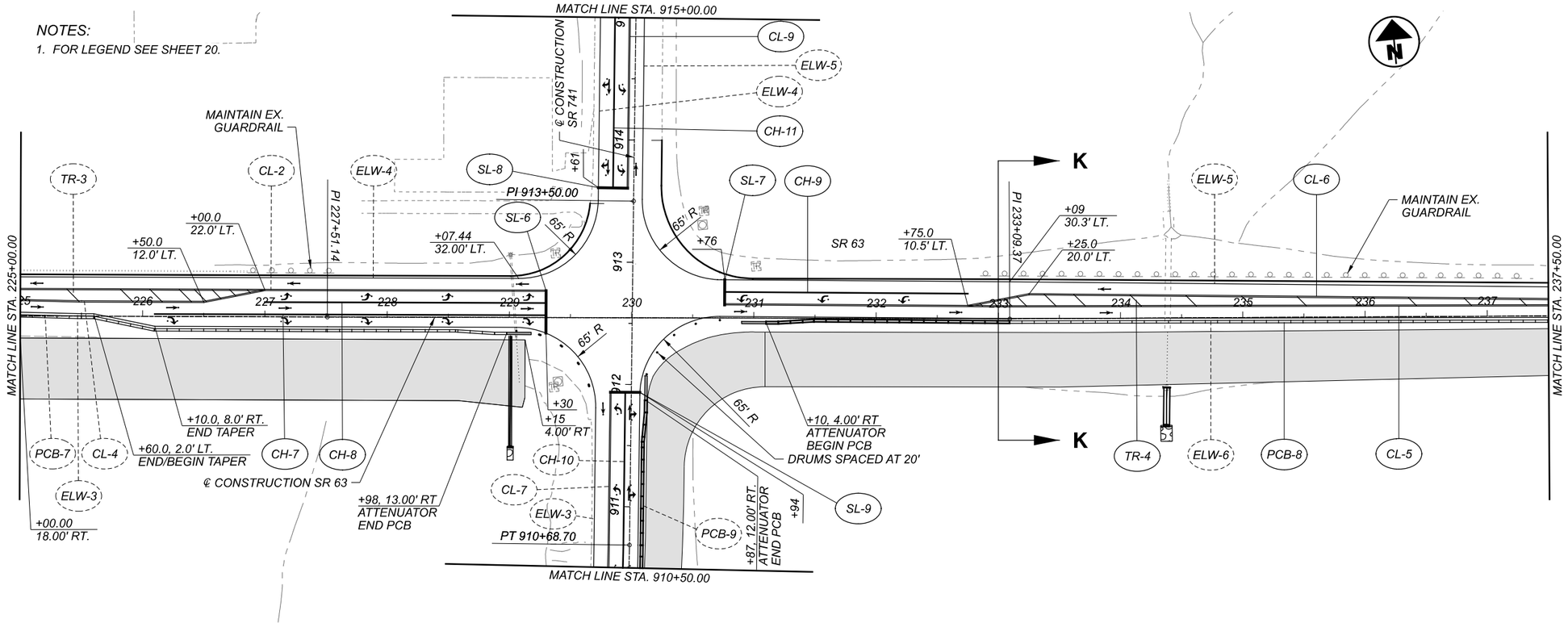
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TYPICAL SECTION K-K

NOTES:

1. FOR LEGEND SEE SHEET 20.



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
SR 63 - STA. 225+00.00 TO STA. 237+50.00

DESIGN AGENCY
JACOBS

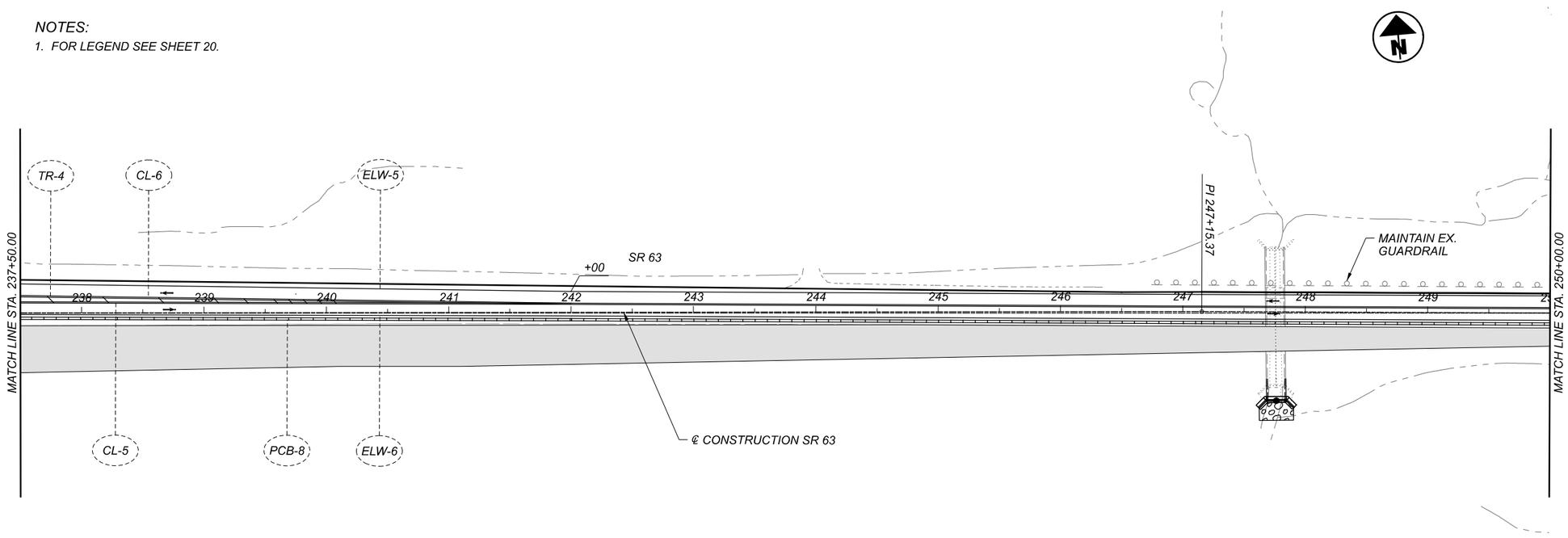
DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 49 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 1- SR 63 Stage II[Sheet] PAPERSIZE:17x11(in.) DATE: 8/23/2023 TIME: 1:49:0 PM USER: Tahir.Sondo@jacobs.com
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NOTES:

1. FOR LEGEND SEE SHEET 20.



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
SR 63 - STA. 237+50.00 TO STA. 250+00.00

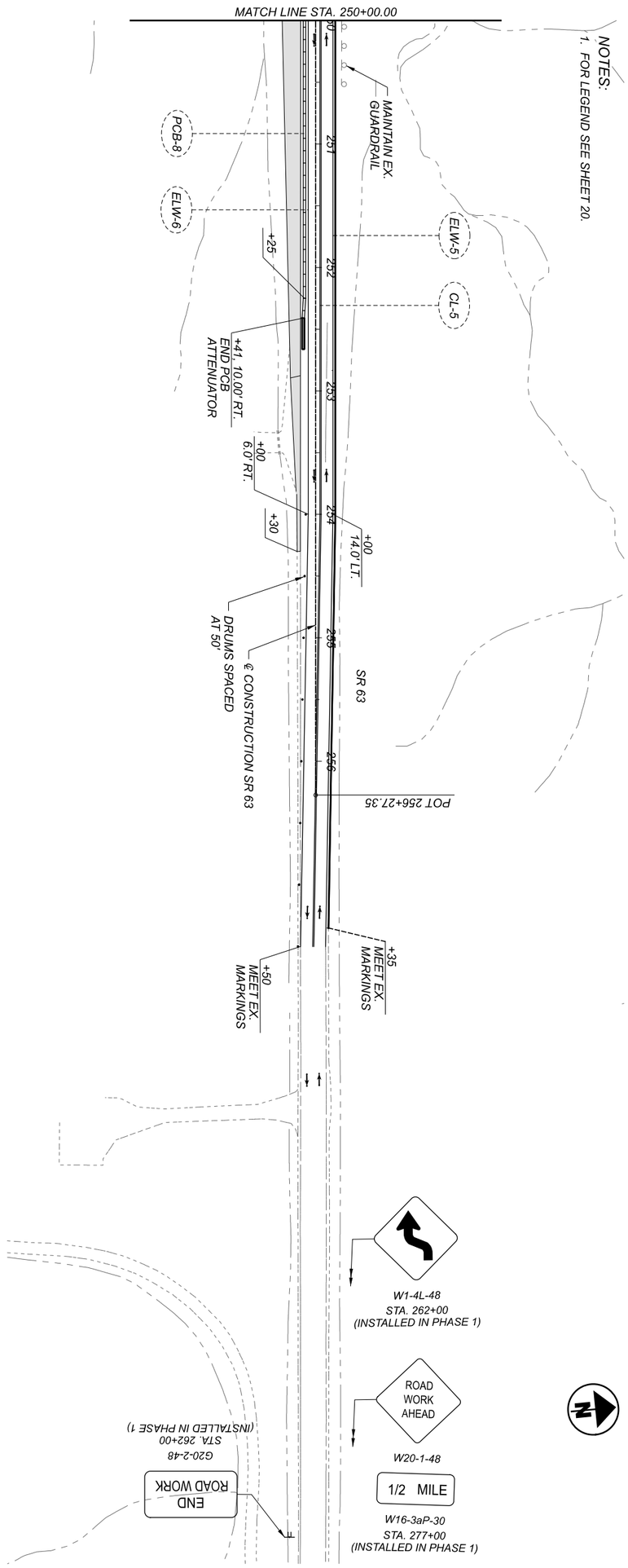
WAR-63-0.83

DESIGN AGENCY
JACOBS

DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	50
TOTAL	436

MODEL: CLP_SR63 - Plan 1- SR 63 Stage 12 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:49:12 PM USER: Tahir.Sondoe@jacobs.com
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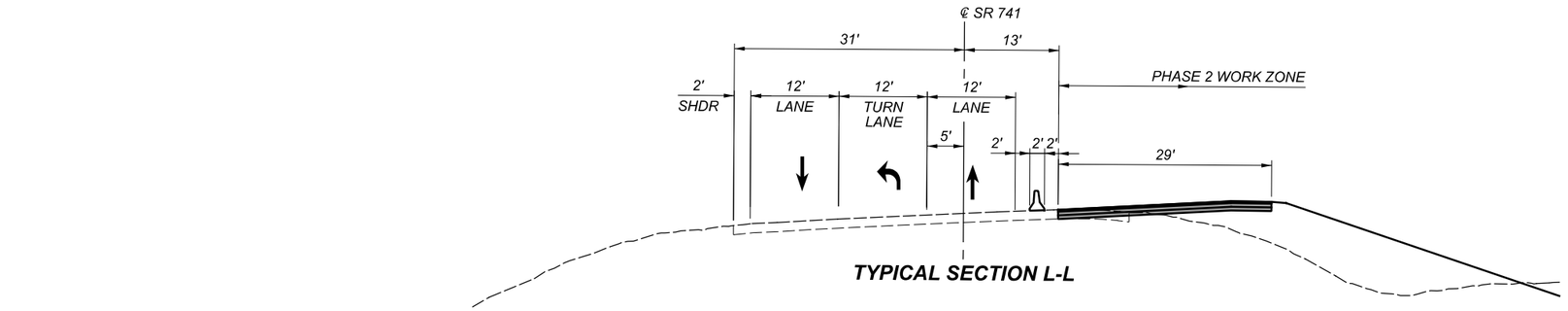
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\MOT\Sheets\112121_MP201.dgn



SHEET 51 / TOTAL 436	PROJECT ID 112121	REVIEWER RN 08/22/23	DESIGNER MRP	DESIGN AGENCY JACOBS

MAINTENANCE OF TRAFFIC - PHASE 2
SR 63 - STA. 250+00.00 TO STA. 262+50.00

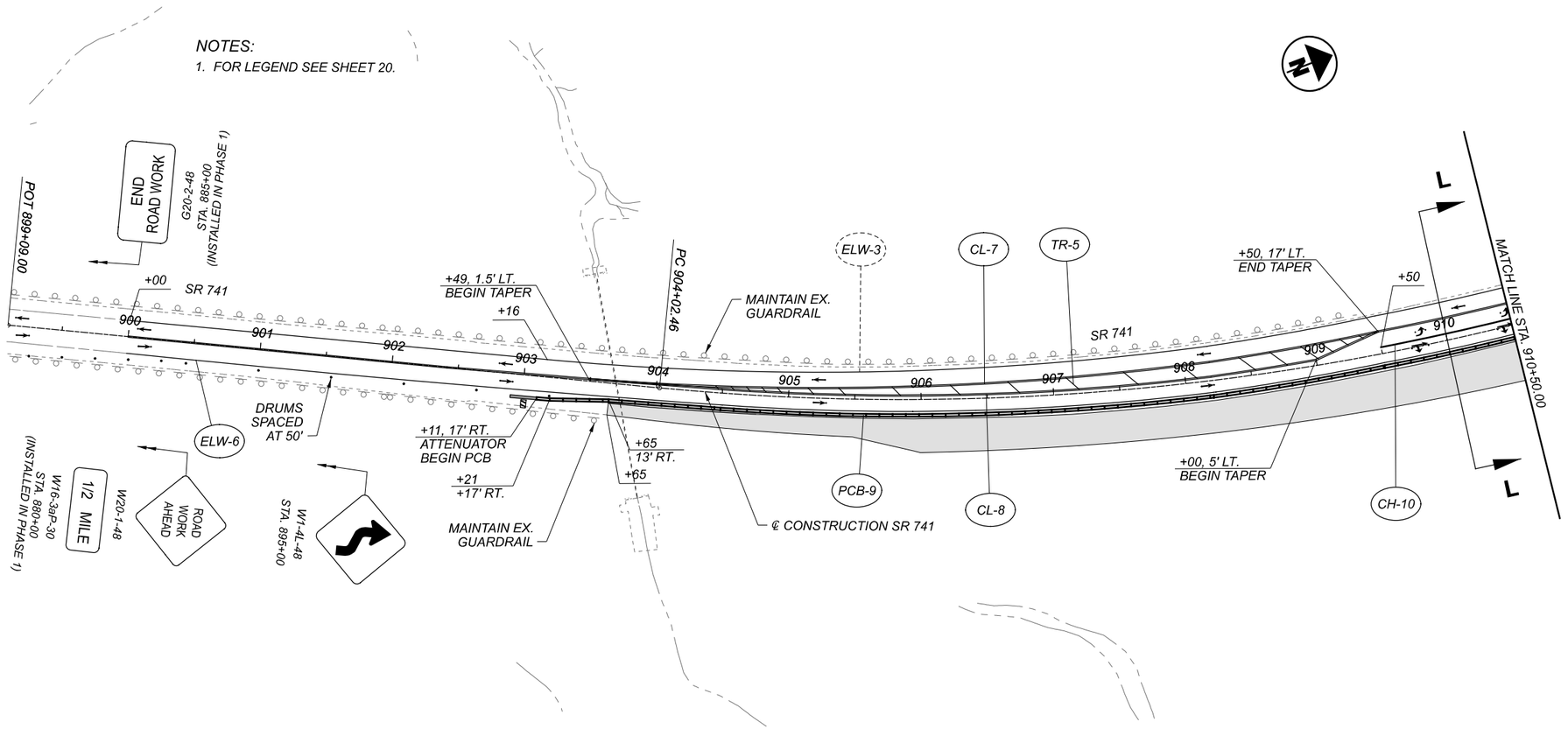
HORIZONTAL SCALE IN FEET
0 50
25 100



TYPICAL SECTION L-L

NOTES:

1. FOR LEGEND SEE SHEET 20.



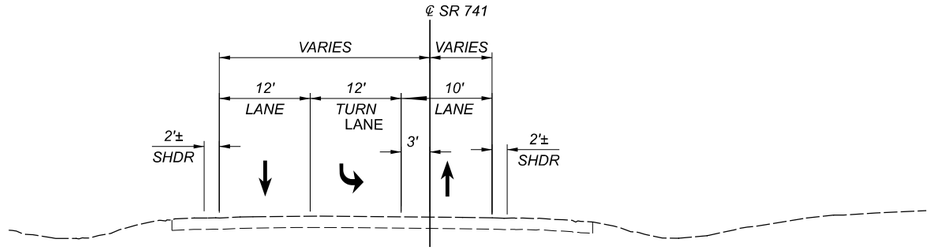
HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
SR 741 - STA. 899+09.00 TO STA. 910+50.00

DESIGN AGENCY	JACOBS
DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	52
TOTAL	436

WAR-63-0.83

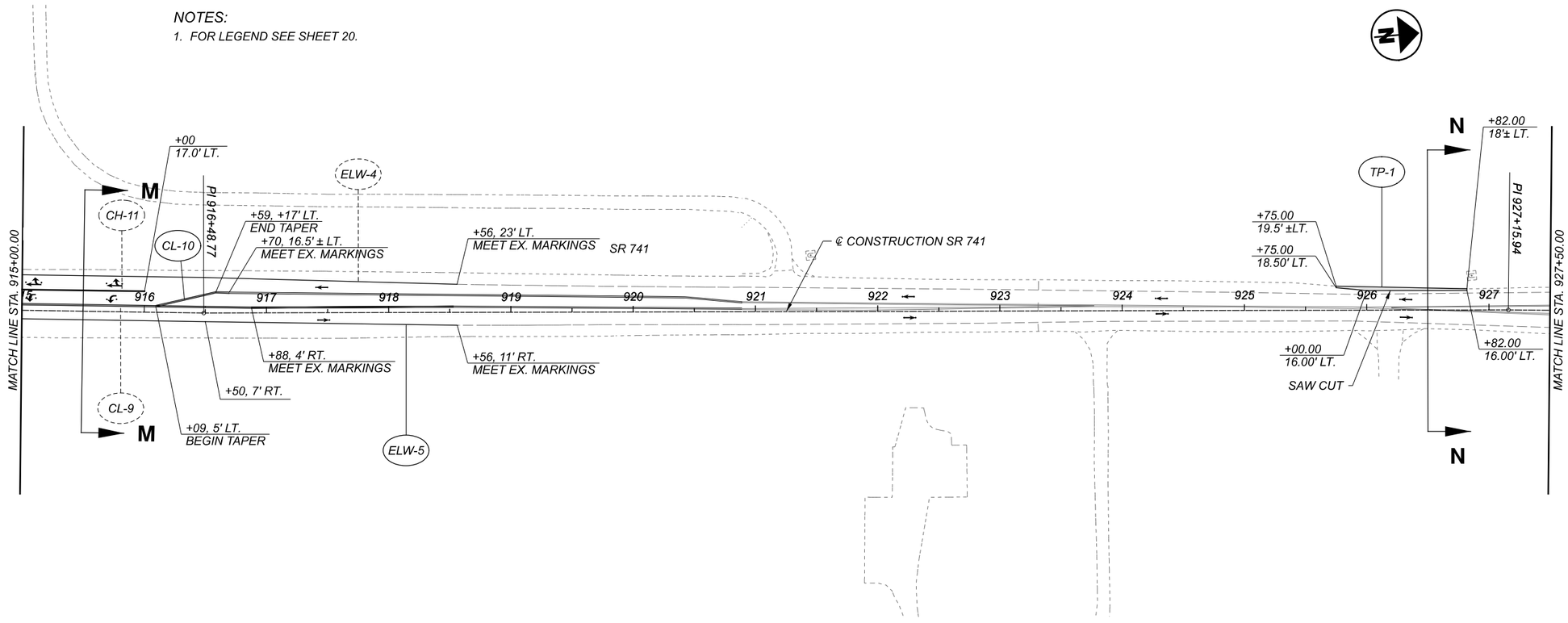
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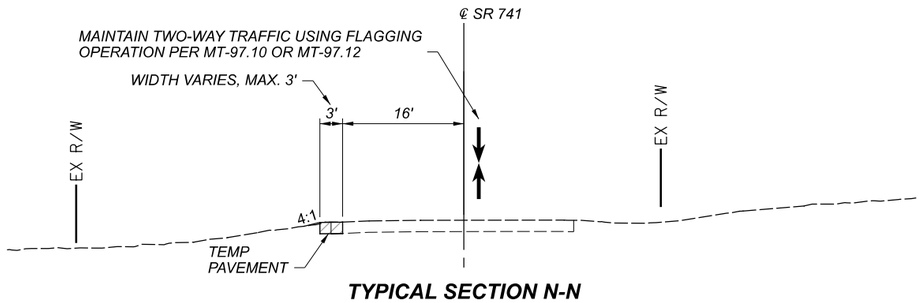


TYPICAL SECTION M-M

NOTES:

1. FOR LEGEND SEE SHEET 20.





TYPICAL SECTION N-N

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
SR 741 - STA. 915+00.00 TO STA. 927+50.00

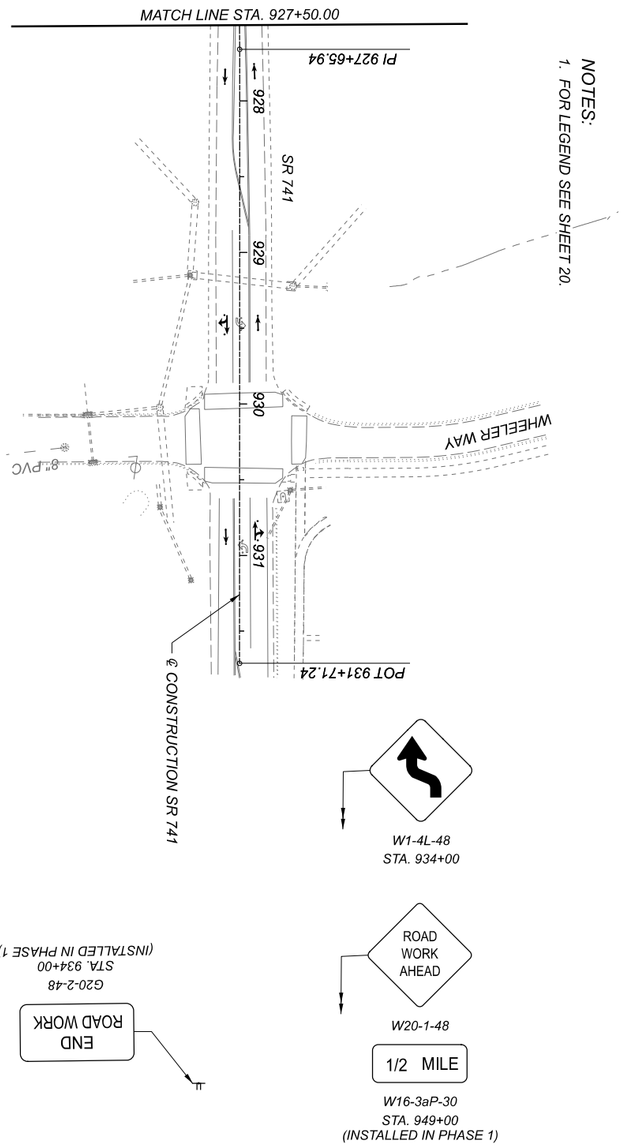
DESIGN AGENCY
JACOBS

DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 53 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR74IF - MOT Phase 2 - Plan 15 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:49:36 PM USER: Tahir.Sondo@Jacobs.com
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MODEL: CLP_SR741F - MOT Phase 2 - Plan 16 (Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:49:37 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6AI8200 - SR 63 Reconstruction\Design\112121\400-Engineering\MOT\Sheets\112121_MP202.dgn





SHEET	TOTAL
54	436

PROJECT ID: 112121

REVIEWER: RN 08/22/23

DESIGNER: MRP

JACOBS

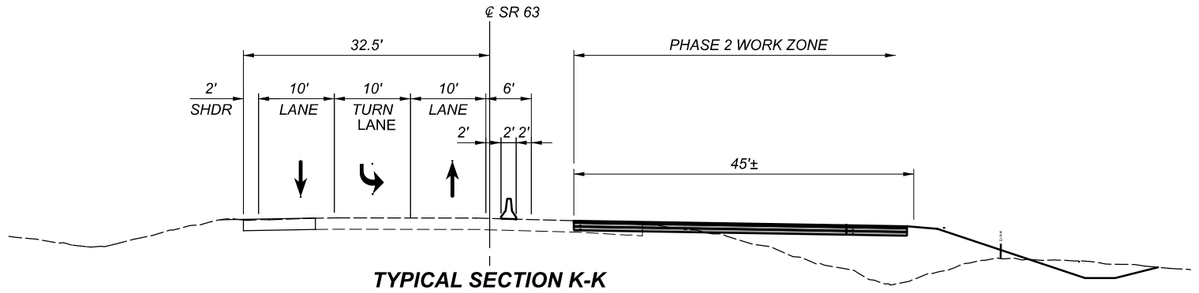
DESIGN AGENCY

MAINTENANCE OF TRAFFIC - PHASE 2
SR 741 - STA. 927+50.00 TO STA. 931+71.24

HORIZONTAL SCALE IN FEET

0 50

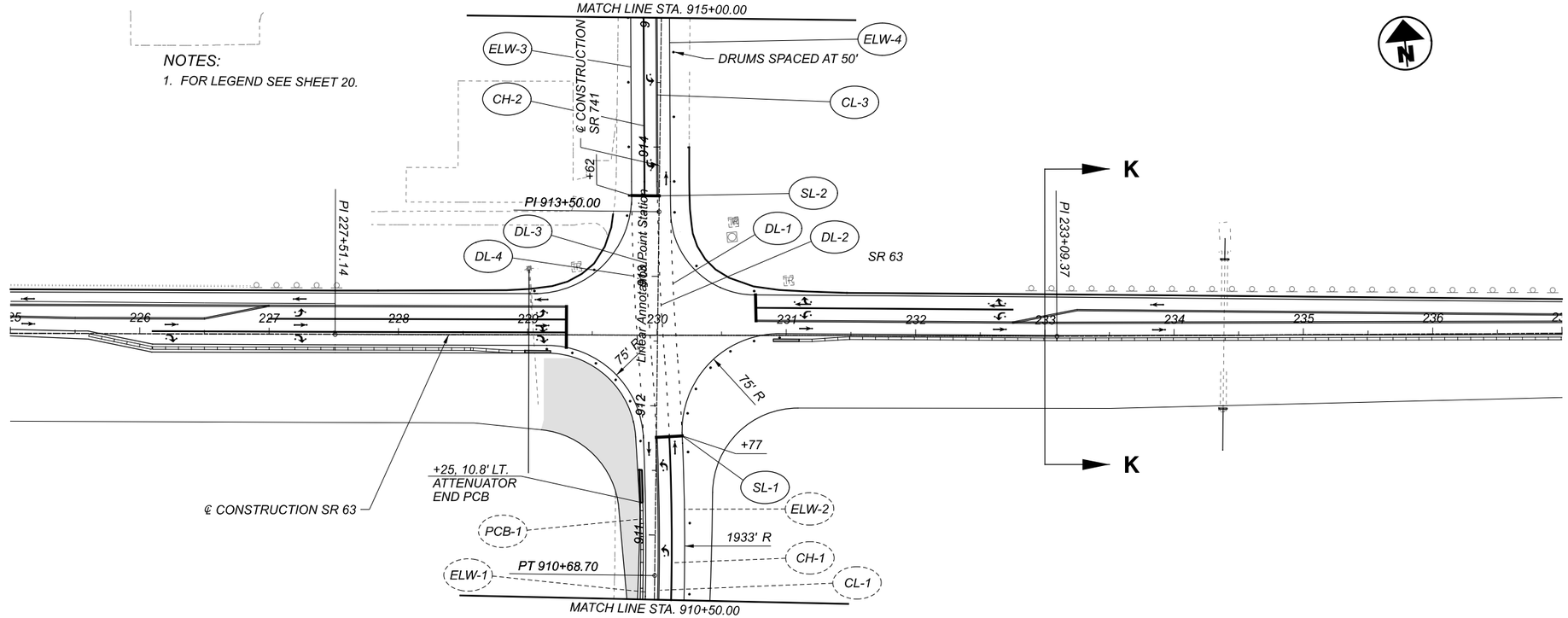
25 100



TYPICAL SECTION K-K

NOTES:

1. FOR LEGEND SEE SHEET 20.



HORIZONTAL SCALE IN FEET
0 25 50 100

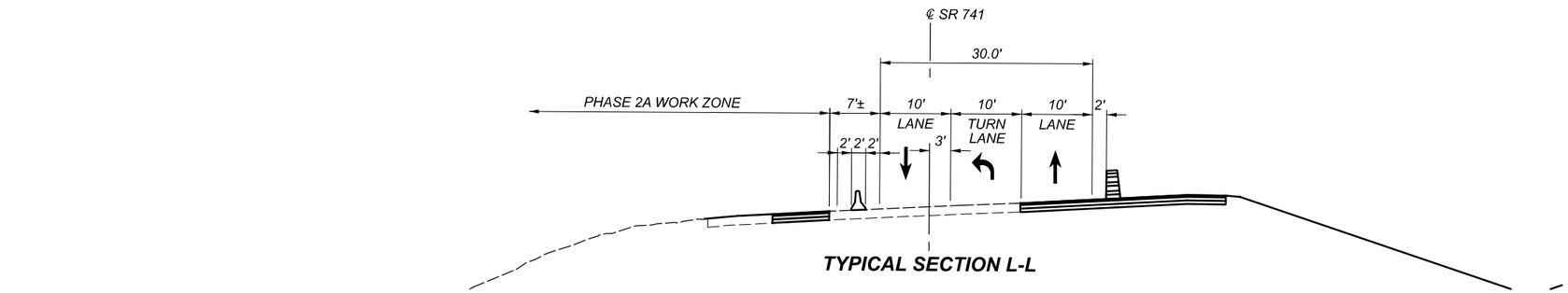
MAINTENANCE OF TRAFFIC - PHASE 2A
SR 63 - STA. 225+00.00 TO STA. 237+00.00

DESIGN AGENCY
JACOBS

DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 55 TOTAL 436

WAR-63-0.83

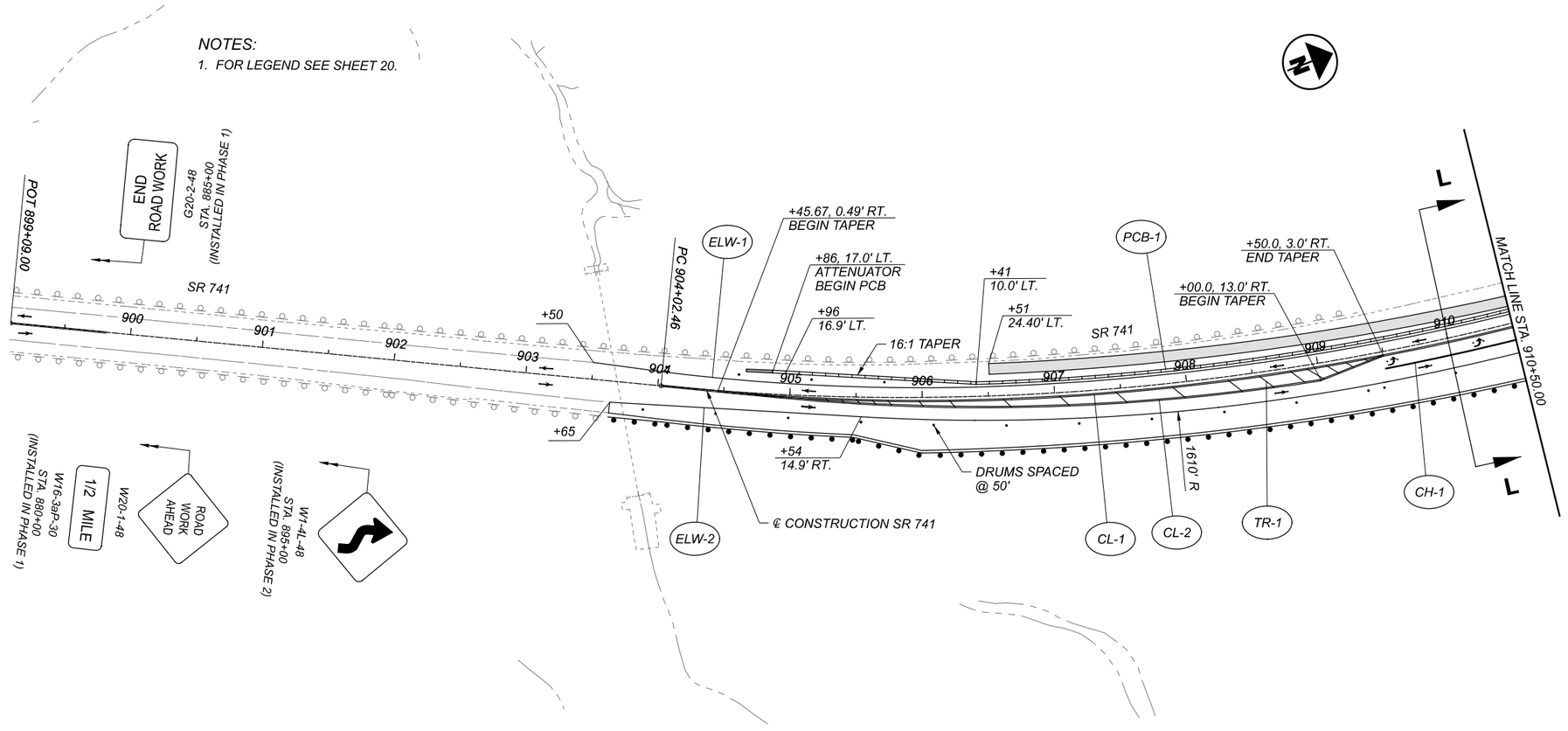
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TYPICAL SECTION L-L

NOTES:

1. FOR LEGEND SEE SHEET 20.



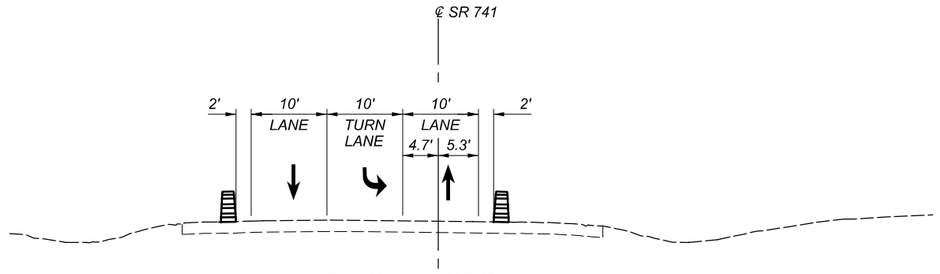
HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2A
SR 741 - STA. 899+09.00 TO STA. 910+50.00

DESIGN AGENCY	JACOBS
DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	56
TOTAL	436

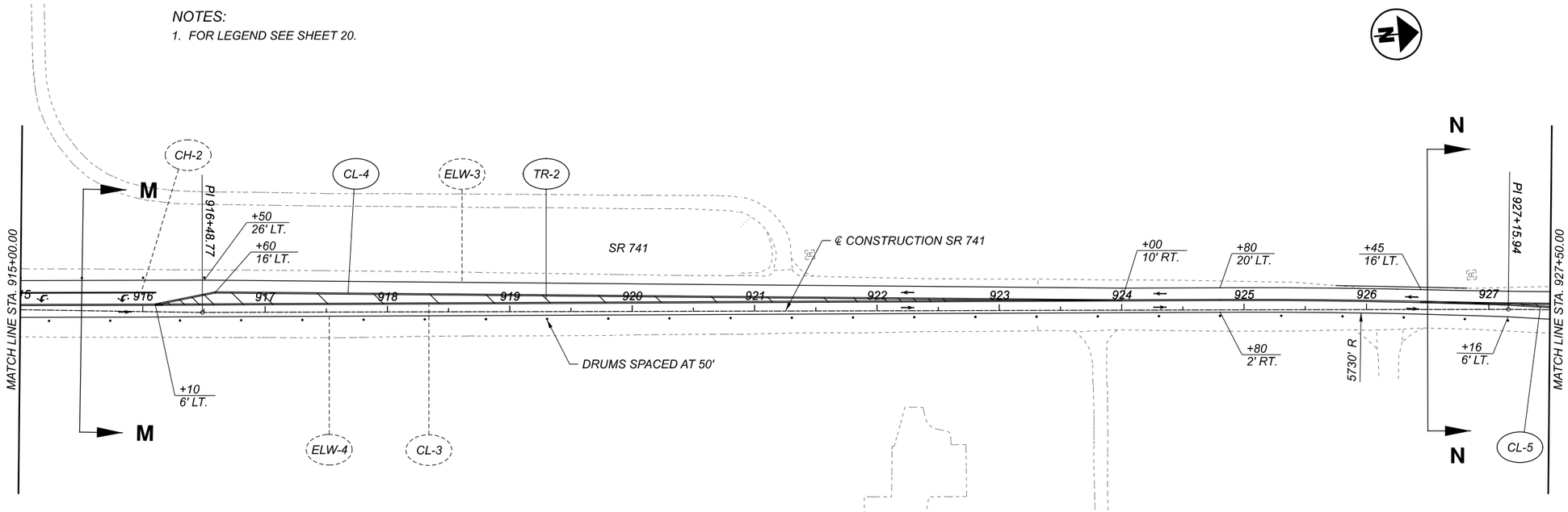
WAR-63-0.83

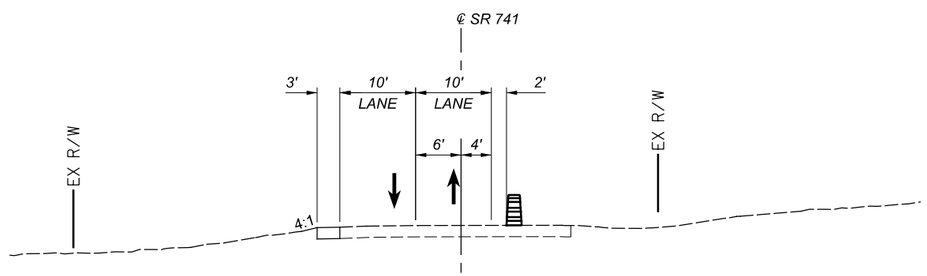
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TYPICAL SECTION M-M

NOTES:
1. FOR LEGEND SEE SHEET 20.





TYPICAL SECTION N-N

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2A
SR 741 - STA. 915+00.00 TO STA. 927+50.00

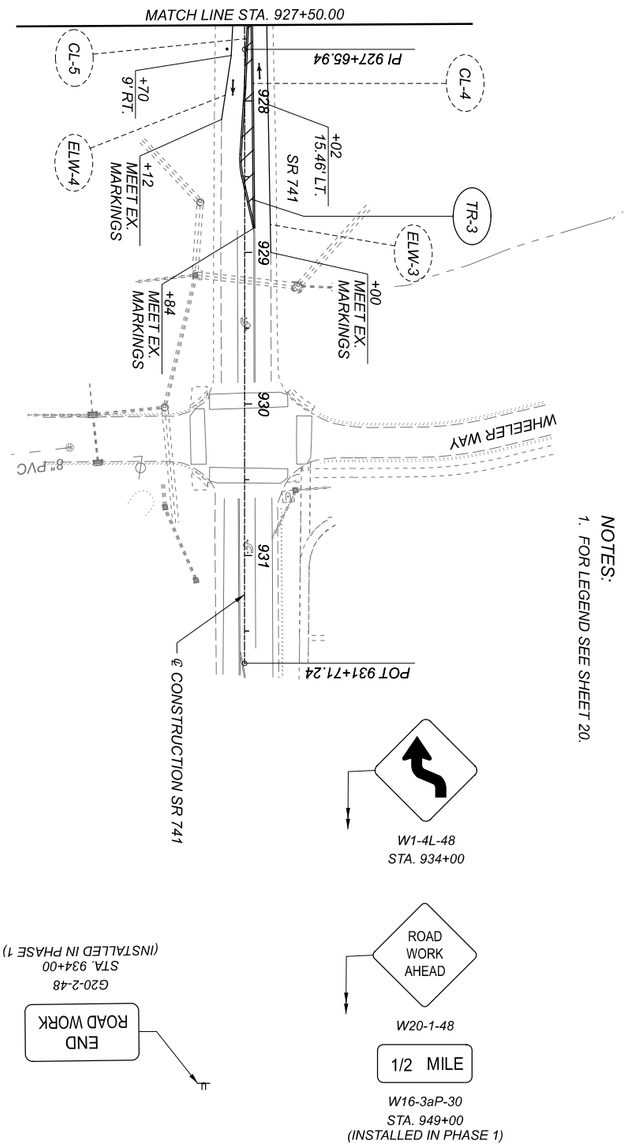
DESIGN AGENCY
JACOBS

DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	57
TOTAL	436

WAR-63-0.83

MODEL: CLP_SR74IF - MOT Phase 2A - Plan IS [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:50:8 PM USER: Tahir.Sondo@jacobs.com
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MODEL: CLP_SR74IF - MOT Phase 2A - Plan 16 (Sheet) PAPERSIZE: 17x11(In.) DATE: 8/23/2023 TIME: 4:50:19 PM USER: Tahir.Sondo@jacobs.com
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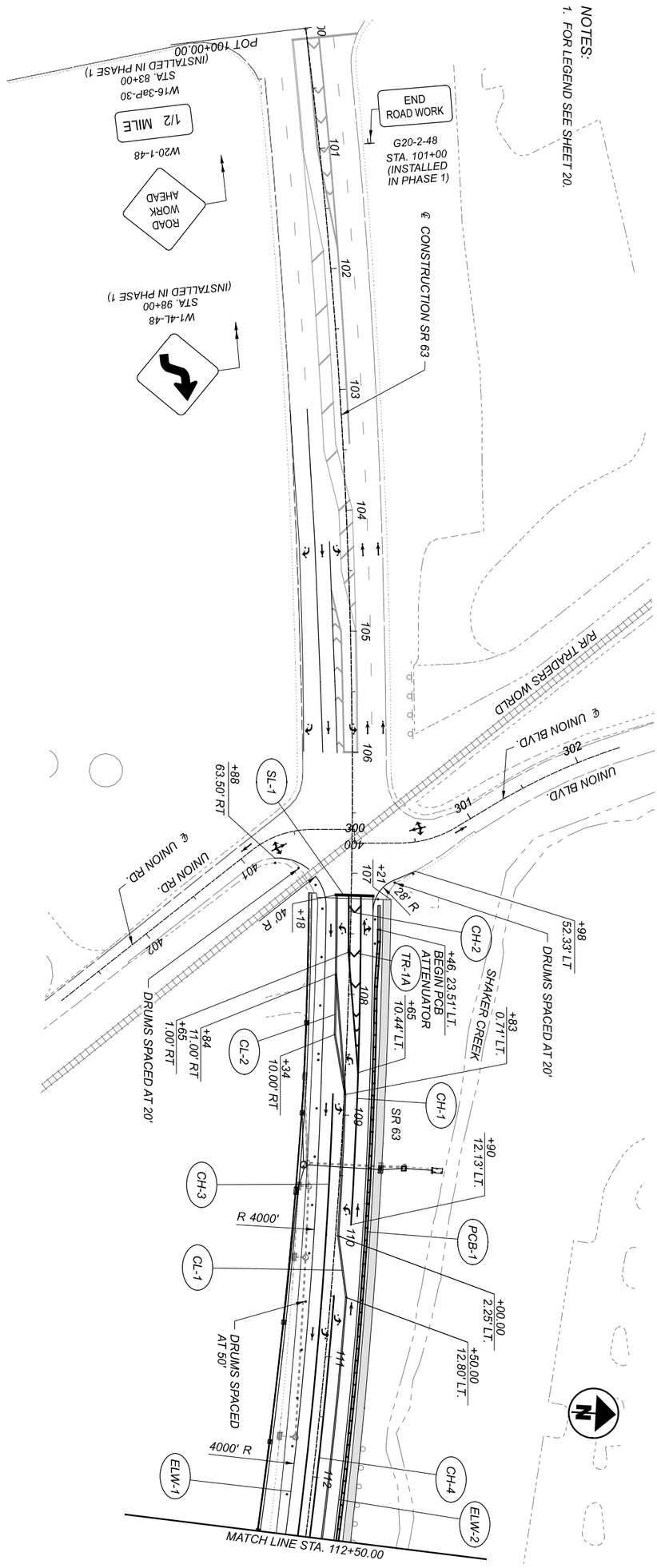
NOTES:
1. FOR LEGEND SEE SHEET 20.

MAINTENANCE OF TRAFFIC - PHASE 2A
SR 741 - STA. 927+50.00 TO STA. 931+74.24

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_SR63 - Plan 1- SR 63 Phase 1(Sheet) PAPERSIZE: 17x11(In.) DATE: 8/23/2023 TIME: 1:50:43 PM USER: Tahir.Sondo@jacobs.com
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NOTES:
1. FOR LEGEND SEE SHEET 20.



MAINTENANCE OF TRAFFIC - PHASE 3
SR 63 - STA. 100+00.00 TO STA. 112+50.00

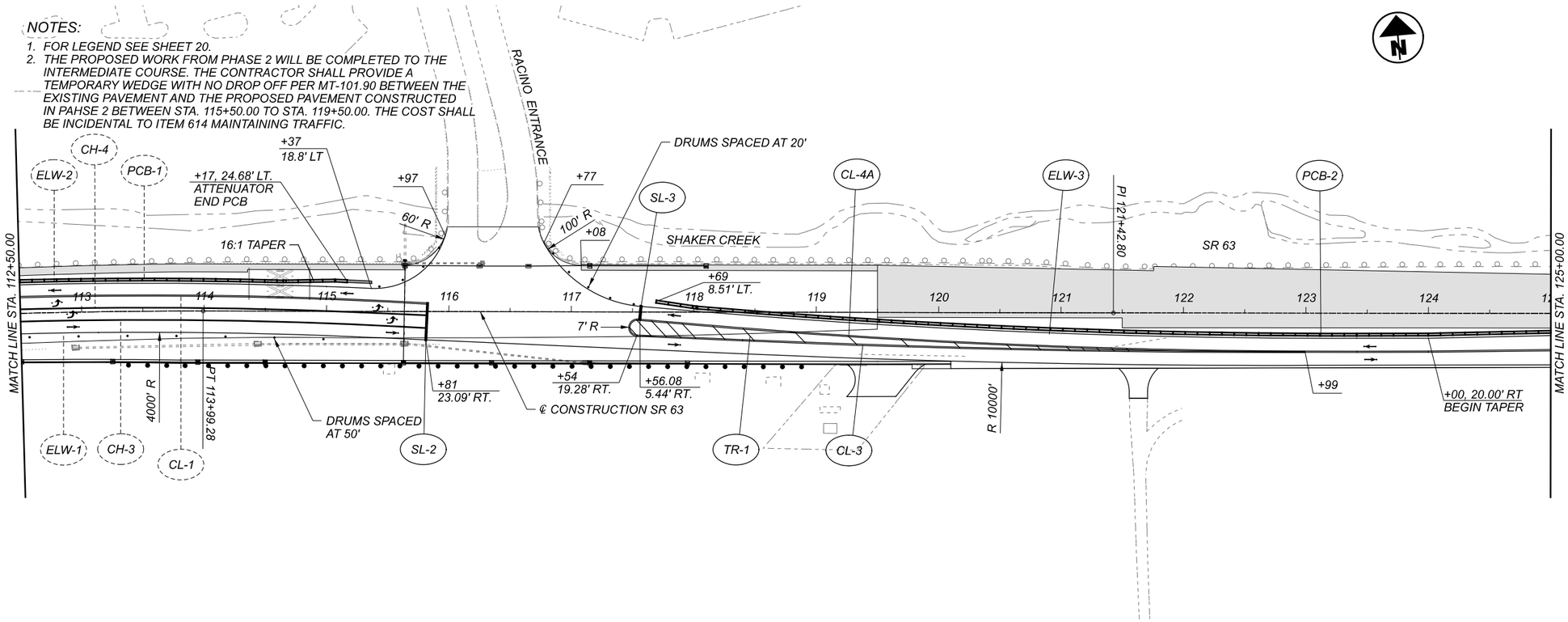
HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	58
TOTAL	436

DESIGN AGENCY: JACOBS

NOTES:

1. FOR LEGEND SEE SHEET 20.
2. THE PROPOSED WORK FROM PHASE 2 WILL BE COMPLETED TO THE INTERMEDIATE COURSE. THE CONTRACTOR SHALL PROVIDE A TEMPORARY WEDGE WITH NO DROP OFF PER MT-101.90 BETWEEN THE EXISTING PAVEMENT AND THE PROPOSED PAVEMENT CONSTRUCTED IN PAHSE 2 BETWEEN STA. 115+50.00 TO STA. 119+50.00. THE COST SHALL BE INCIDENTAL TO ITEM 614 MAINTAINING TRAFFIC.



HORIZONTAL SCALE IN FEET
0 25 50 100

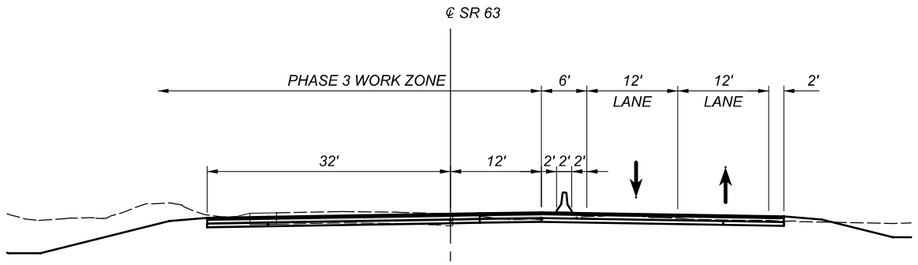
MAINTENANCE OF TRAFFIC - PHASE 3
SR 63 - STA. 112+50.00 TO STA. 125+00.00

DESIGN AGENCY
JACOBS

DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	59
TOTAL	436

WAR-63-0.83

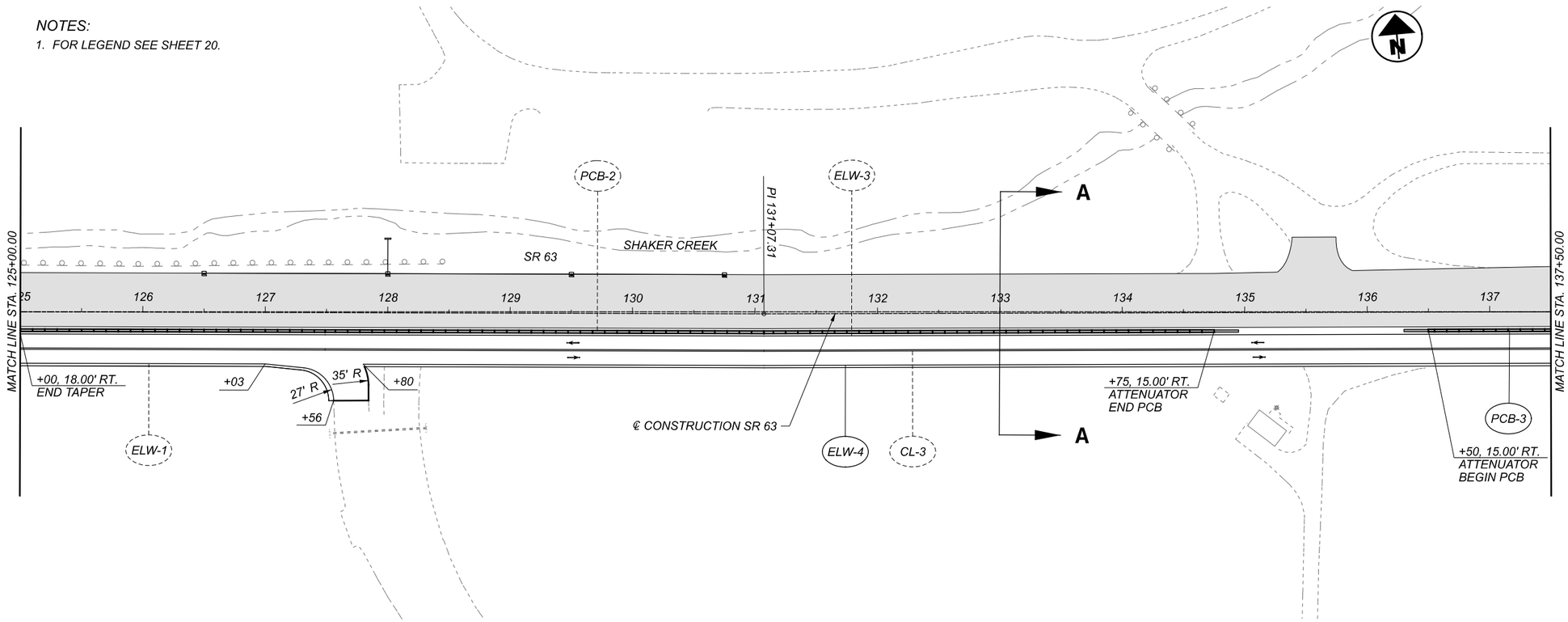
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TYPICAL SECTION A-A

NOTES:

1. FOR LEGEND SEE SHEET 20.



HORIZONTAL SCALE IN FEET
0 25 50 100

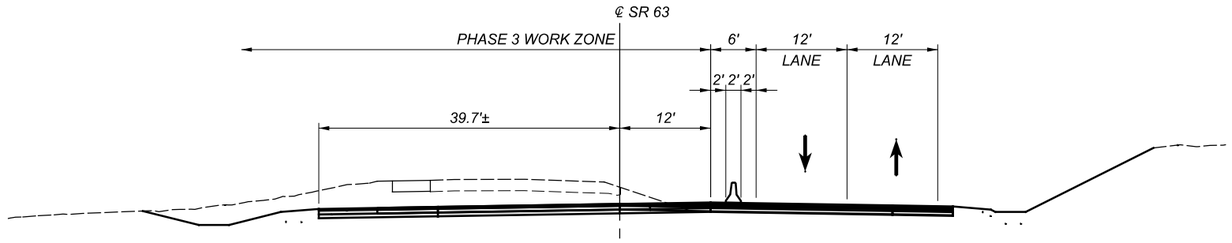
MAINTENANCE OF TRAFFIC - PHASE 3
SR 63 - STA. 125+00.00 TO STA. 137+50.00

DESIGN AGENCY
JACOBS

DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 60 TOTAL 436

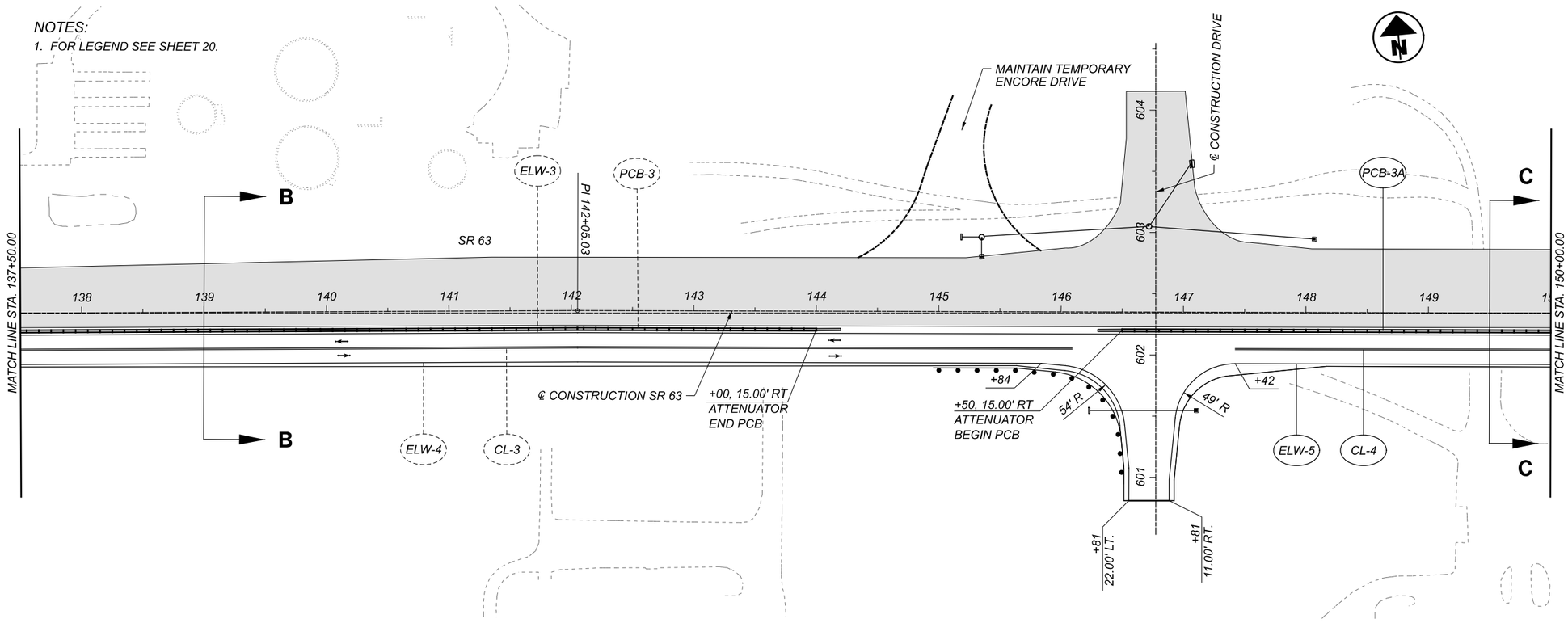
WAR-63-0.83

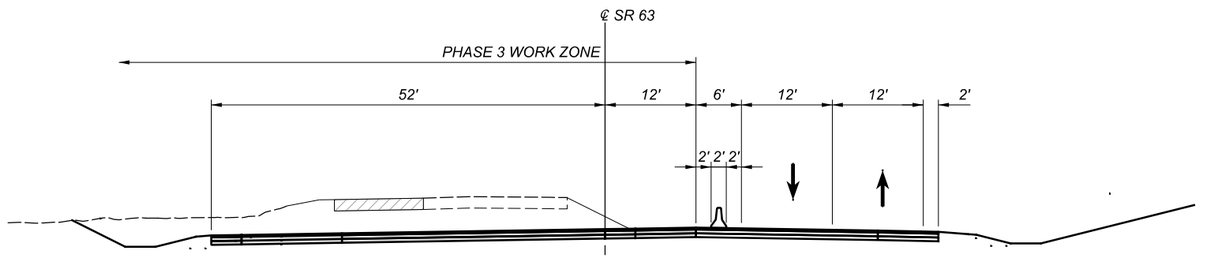
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TYPICAL SECTION B-B

NOTES:
1. FOR LEGEND SEE SHEET 20.





TYPICAL SECTION C-C

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3
SR 63 - STA. 137+50.00 TO STA. 150+00.00

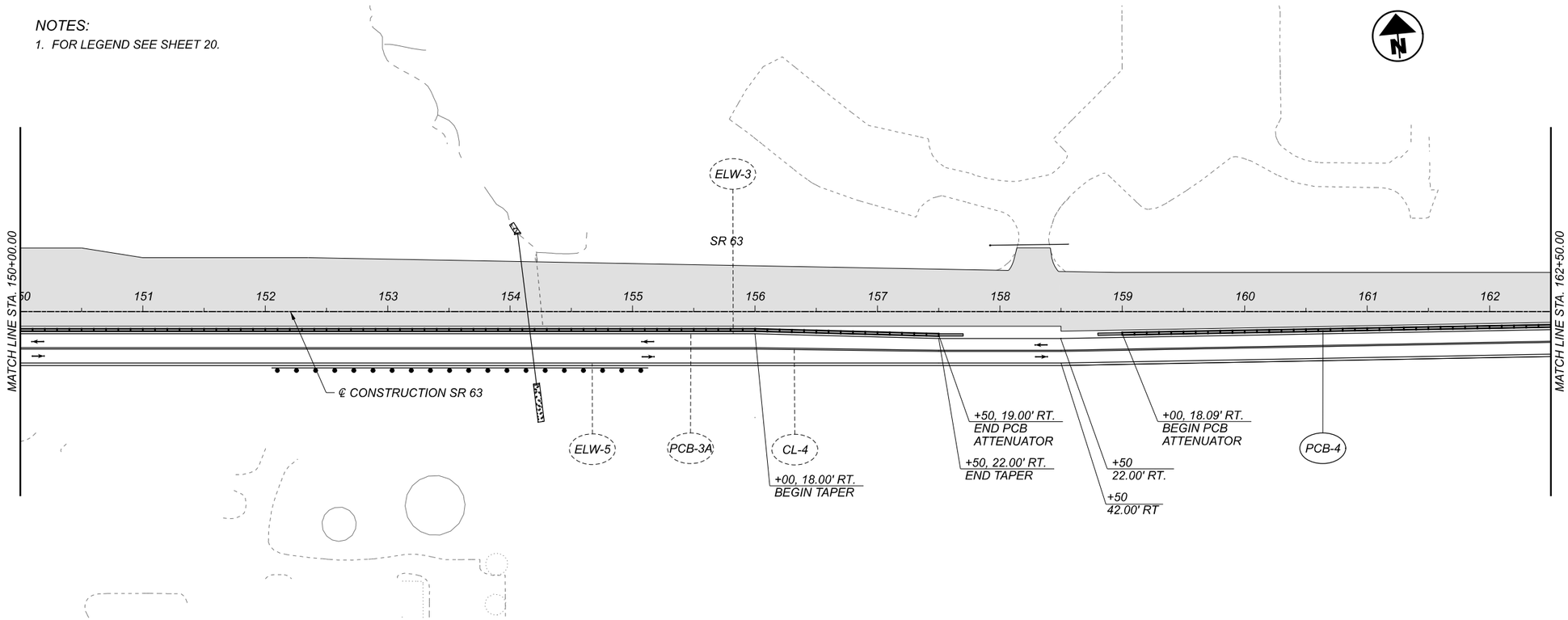
DESIGN AGENCY
JACOBS

DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	61
TOTAL	436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 1 - SR 63 Phase 4 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:50:50 PM USER: Tahir.Sondo@Jacobs.com
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NOTES:
1. FOR LEGEND SEE SHEET 20.



HORIZONTAL SCALE IN FEET
0 25 50 100

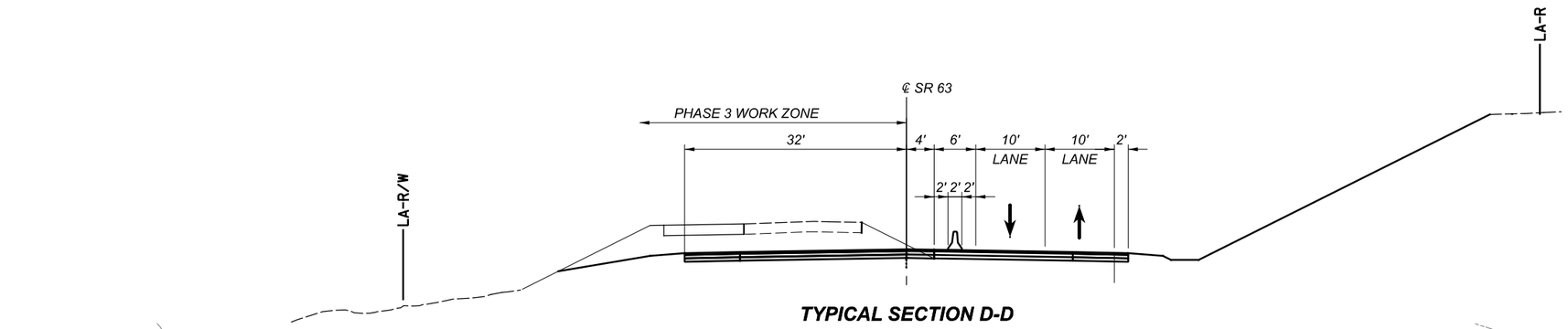
MAINTENANCE OF TRAFFIC - PHASE 3
SR 63 - STA. 150+00.00 TO STA. 162+50.00

DESIGN AGENCY
JACOBS

DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	62
TOTAL	436

WAR-63-0.83

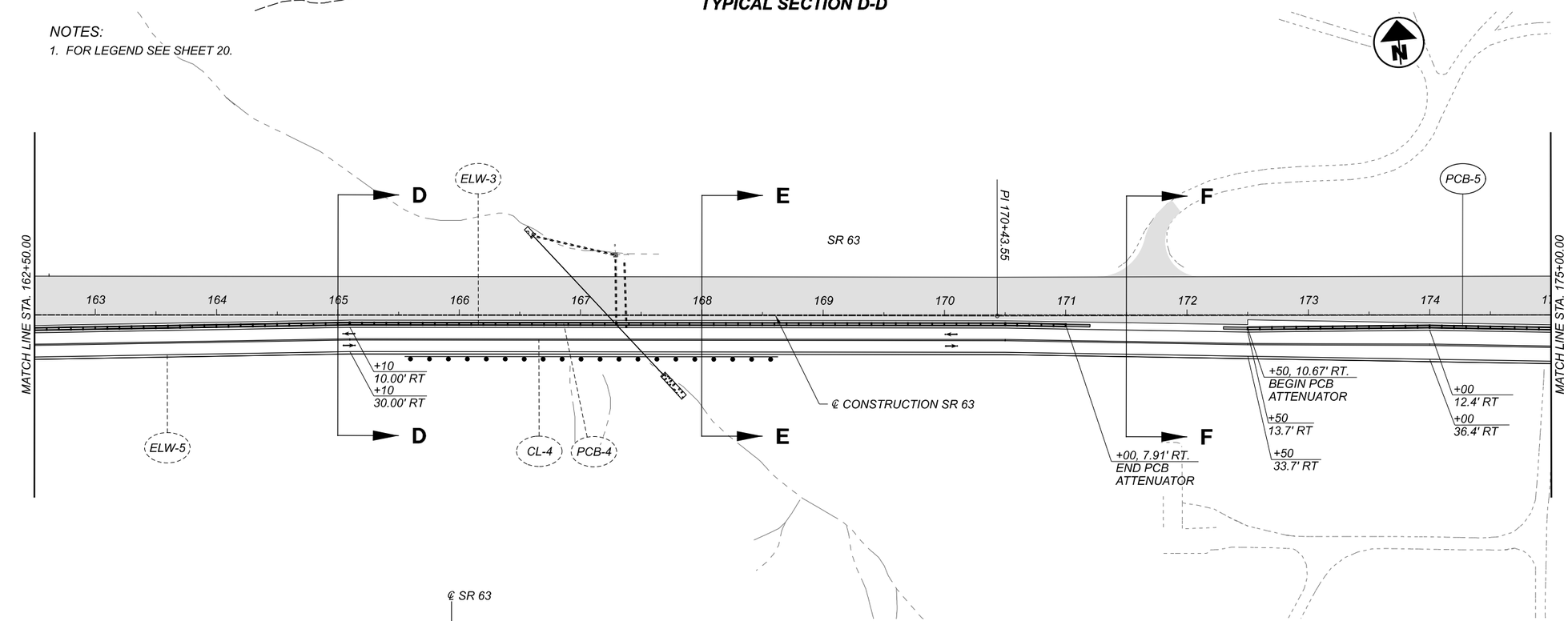
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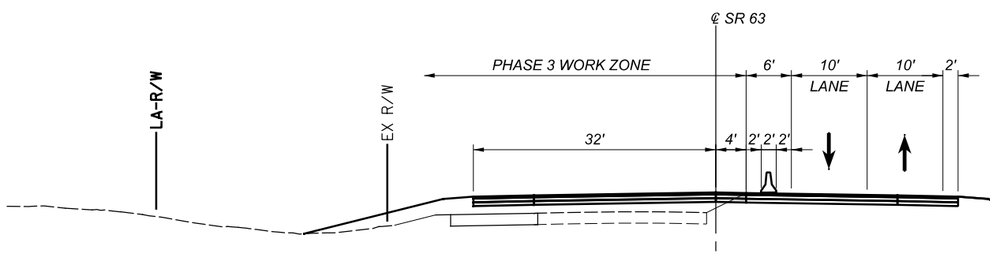


TYPICAL SECTION D-D

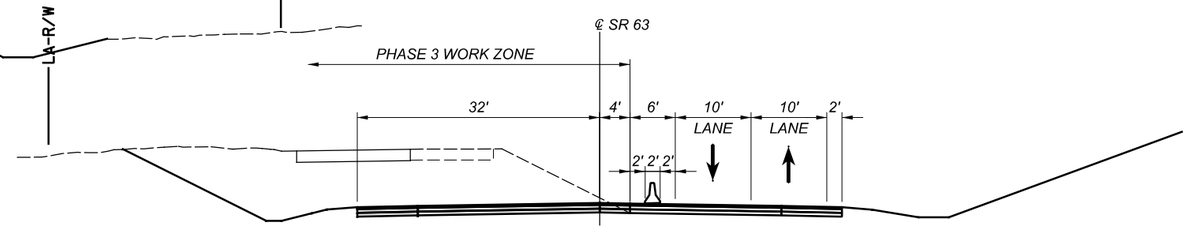
NOTES:

1. FOR LEGEND SEE SHEET 20.





TYPICAL SECTION E-E



TYPICAL SECTION F-F

HORIZONTAL SCALE IN FEET
0 25 50 100

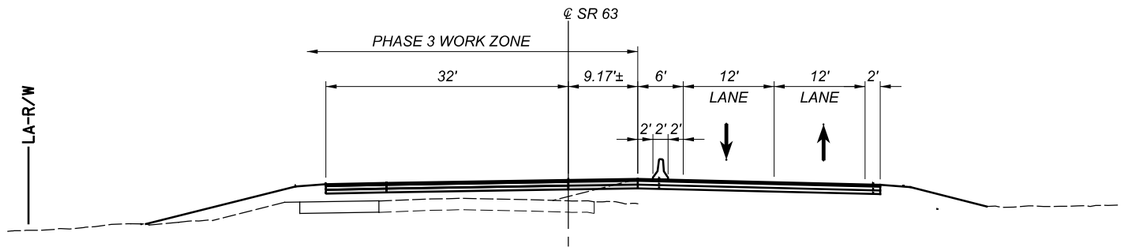
MAINTENANCE OF TRAFFIC - PHASE 3
SR 63 - STA. 162+50.00 TO STA. 175+00.00

DESIGN AGENCY
JACOBS

DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 63 TOTAL 436

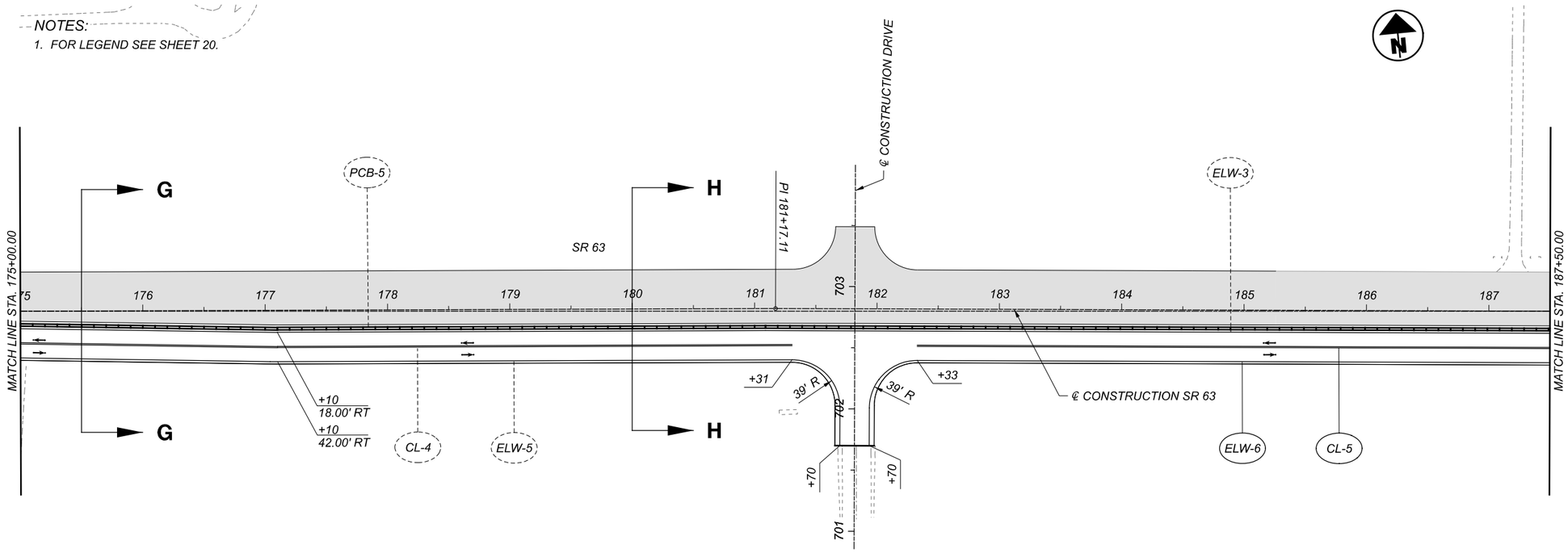
WAR-63-0.83

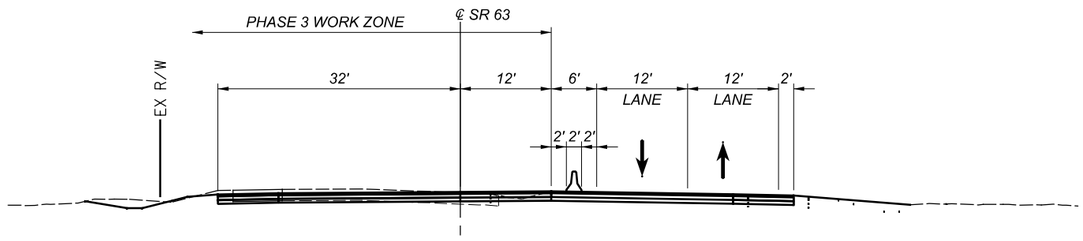
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TYPICAL SECTION G-G

NOTES:
1. FOR LEGEND SEE SHEET 20.





TYPICAL SECTION H-H

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3
SR 63 - STA. 175+00.00 TO STA. 187+50.00

DESIGN AGENCY
JACOBS

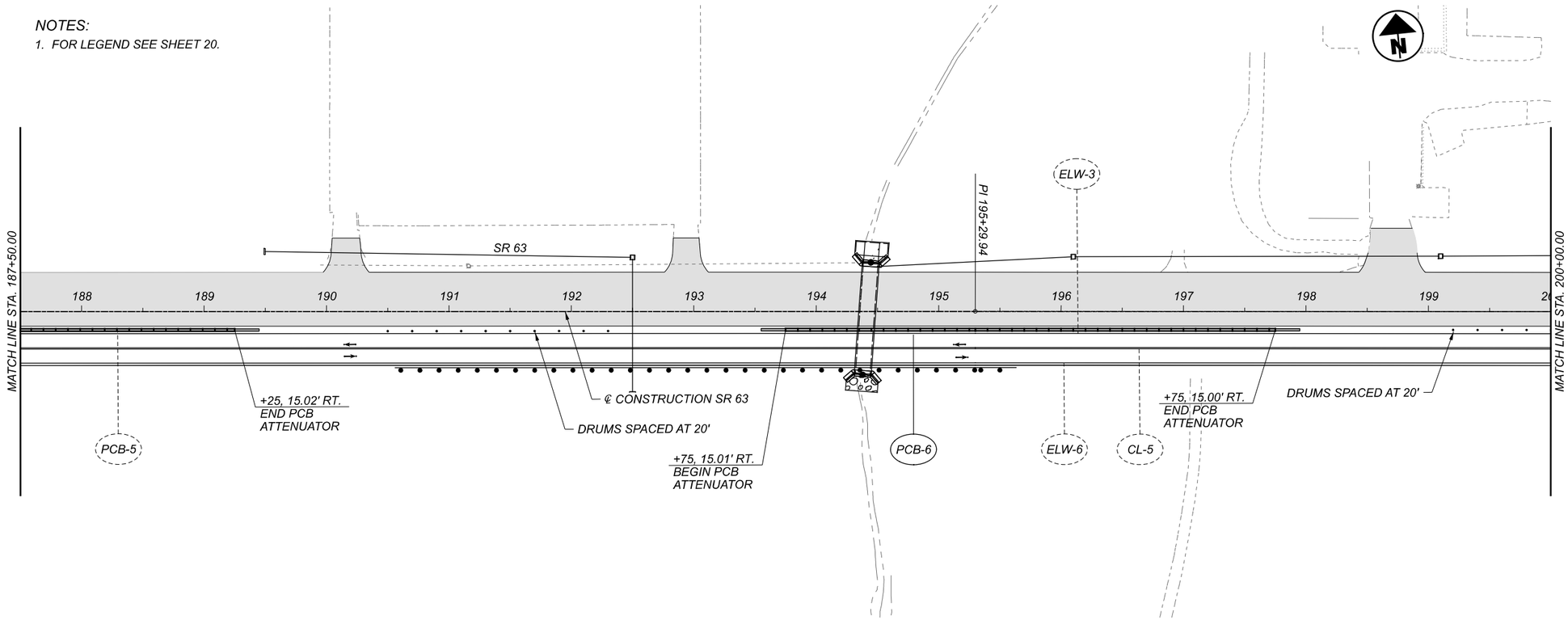
DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	64
TOTAL	436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 1- SR 63 Phase 7 [Sheet1] PAPERSIZE: ITxII(in.) DATE: 8/23/2023 TIME: 1:50:57 PM USER: Tahir.Sondo@jacobs.com
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NOTES:

1. FOR LEGEND SEE SHEET 20.



HORIZONTAL SCALE IN FEET
0 25 50 100

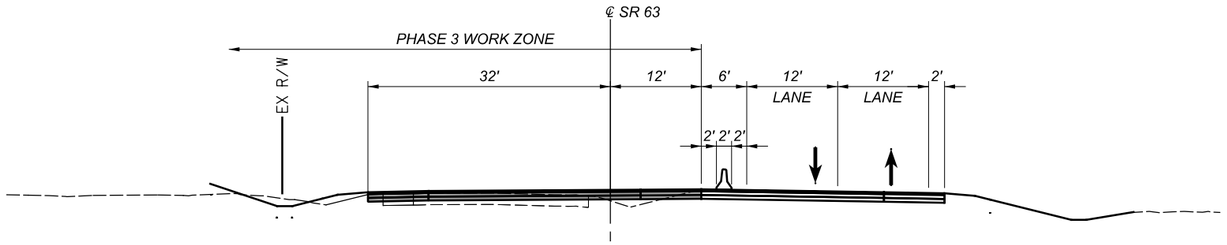
MAINTENANCE OF TRAFFIC - PHASE 3
SR 63 - STA. 187+50.00 TO STA. 200+00.00

WAR-63-0.83

MODEL: CLP_SR63 - Plan 1- SR 63 Phase 8 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:51:00 PM USER: Tahir.Sondo@Jacobs.com
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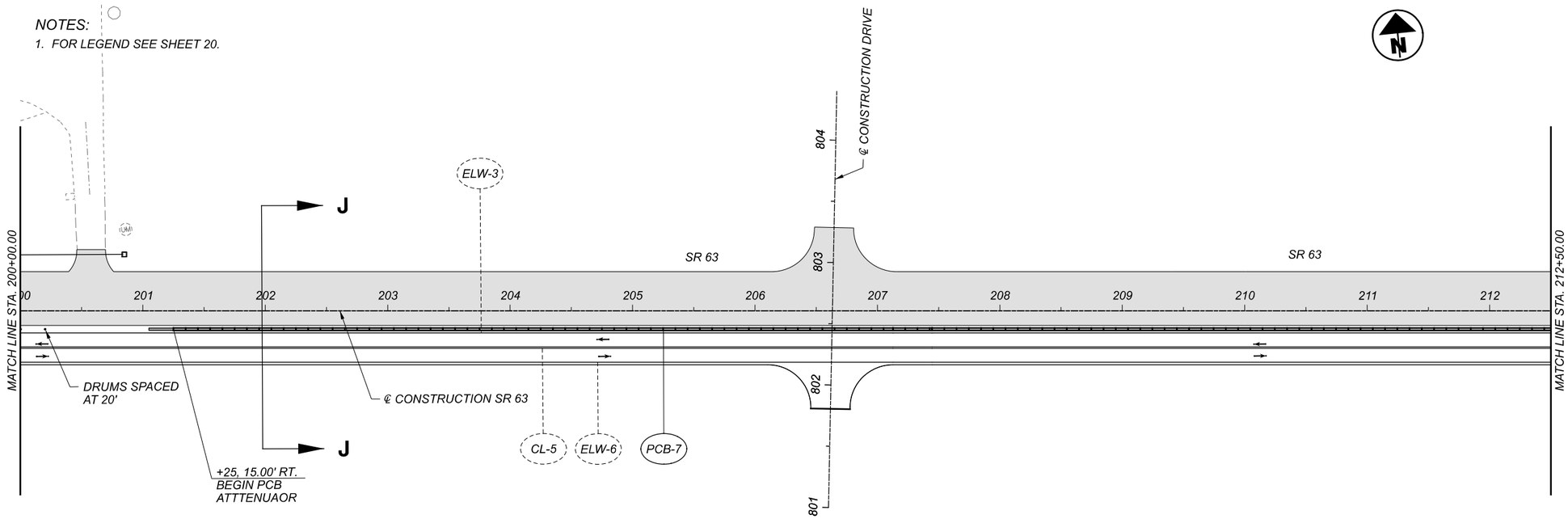
DESIGN AGENCY
JACOBS

DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 65 TOTAL 436



TYPICAL SECTION J-J

NOTES:
1. FOR LEGEND SEE SHEET 20.



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3
SR 63 - STA. 200+00.00 TO STA. 212+50.00

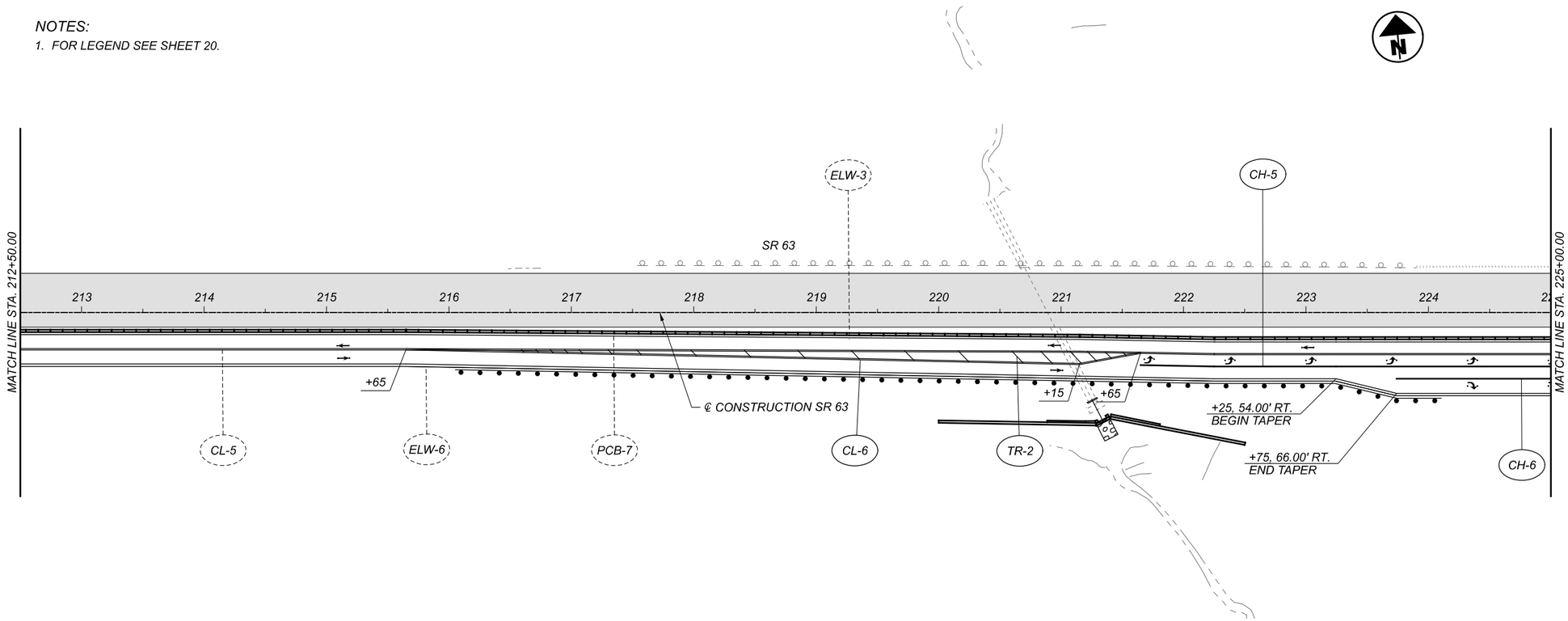
DESIGN AGENCY
JACOBS

DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	66
TOTAL	436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 1- SR 63 Phase 9 (Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 5:02 PM USER: Tahir.Sondo@JacobsS
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\MOT\Sheets\

NOTES:
1. FOR LEGEND SEE SHEET 20.



HORIZONTAL SCALE IN FEET
0 25 50 100

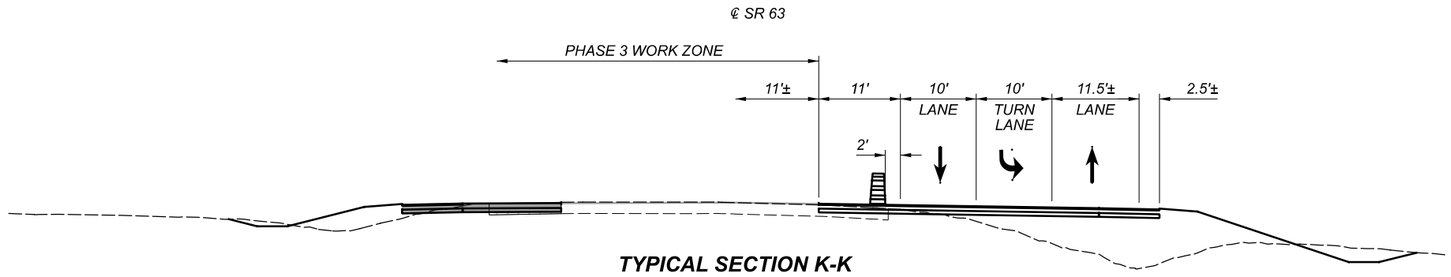
MAINTENANCE OF TRAFFIC - PHASE 3
SR 63 - STA. 212+50.00 TO STA. 225+00.00

DESIGN AGENCY
JACOBS

DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 67 TOTAL 436

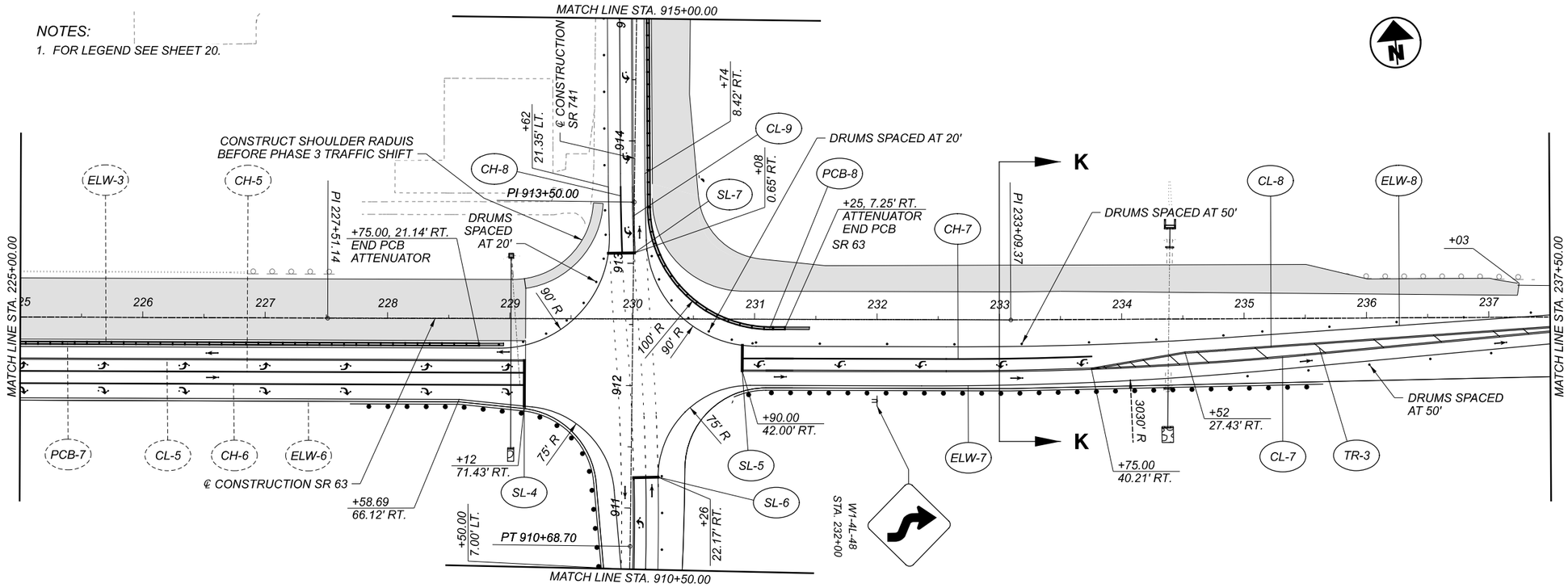
WAR-63-0.83

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TYPICAL SECTION K-K

NOTES:
1. FOR LEGEND SEE SHEET 20.



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3
SR 63 - STA. 225+00.00 TO STA. 237+50.00

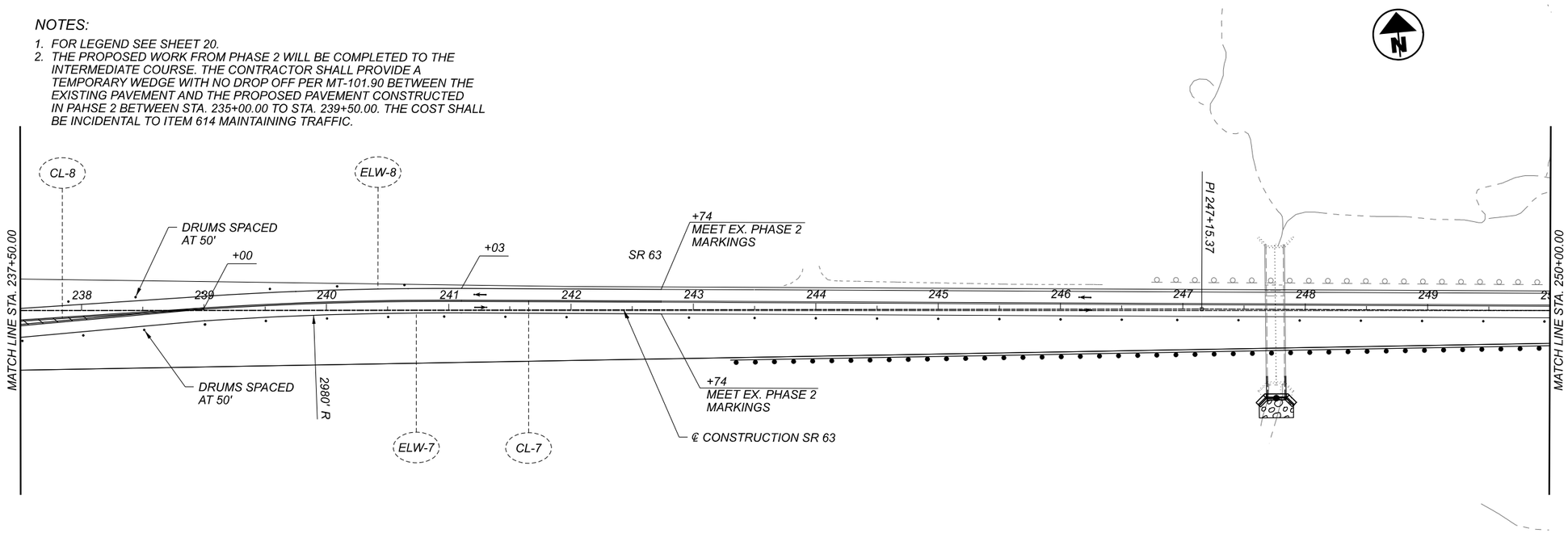
DESIGN AGENCY	JACOBS
DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	68
TOTAL	436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 1- SR 63 Phase II[Sheet] PAPERSIZE:17x11(in.) DATE: 8/23/2023 TIME: 5:07 PM USER: Tahir.Sondos@Jacobs.com
pw:\\Project-WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\MOT\Sheets\112121_MP30i.dgn

NOTES:

1. FOR LEGEND SEE SHEET 20.
2. THE PROPOSED WORK FROM PHASE 2 WILL BE COMPLETED TO THE INTERMEDIATE COURSE. THE CONTRACTOR SHALL PROVIDE A TEMPORARY WEDGE WITH NO DROP OFF PER MT-101.90 BETWEEN THE EXISTING PAVEMENT AND THE PROPOSED PAVEMENT CONSTRUCTED IN PAHSE 2 BETWEEN STA. 235+00.00 TO STA. 239+50.00. THE COST SHALL BE INCIDENTAL TO ITEM 614 MAINTAINING TRAFFIC.



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3
SR 63 - STA. 237+50.00 TO STA. 250+00.00

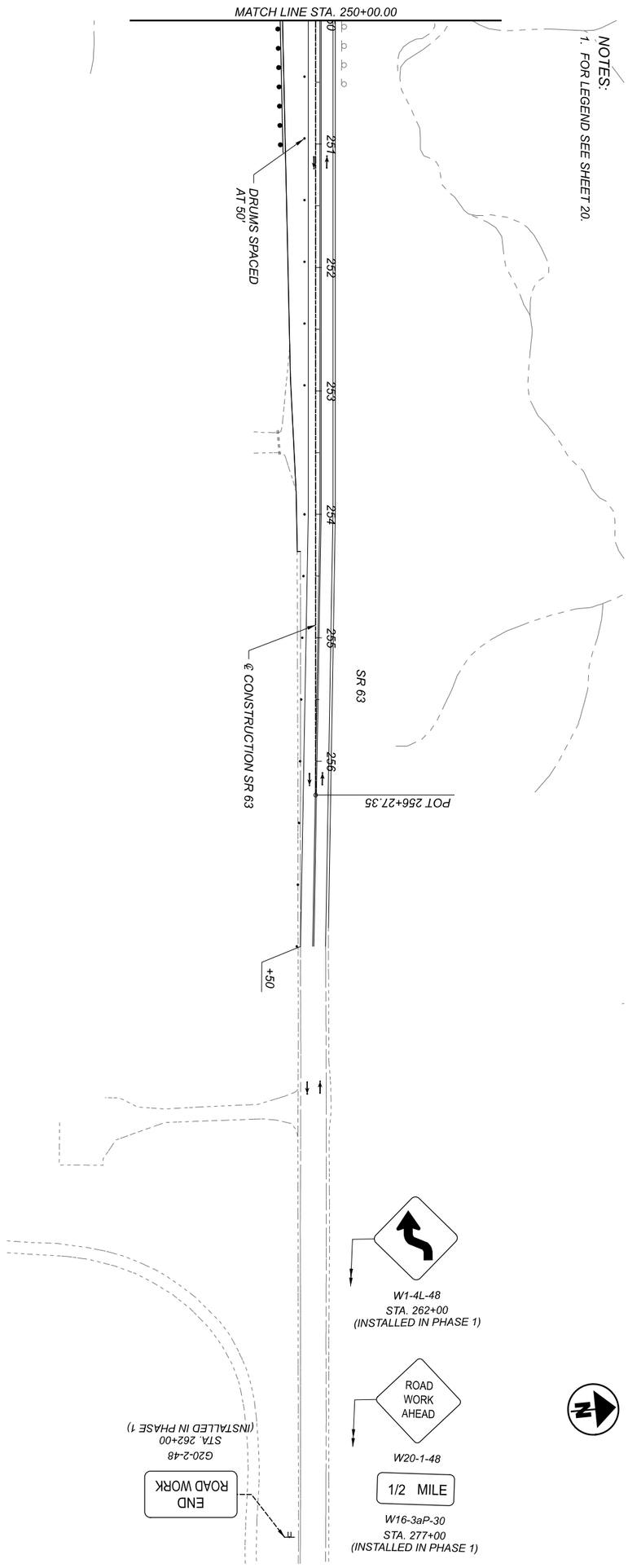
DESIGN AGENCY
JACOBS

DESIGNER MRP
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 69 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 1 - SR 63 Phase 2 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 15:09 PM USER: Tahir.Sondo@jacobs.com
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MODEL: CLP_SR63 - Plan 1- SR 63 Phase 13 (Sheet) PAPERSIZE: 17x11 (In.) DATE: 8/23/2023 TIME: 1:51:12 PM USER: Tahir.Sondo@jacobs.com
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SHEET	TOTAL
70	436

PROJECT ID: 112121

REVIEWER: RN 08/22/23

DESIGNER: MRP

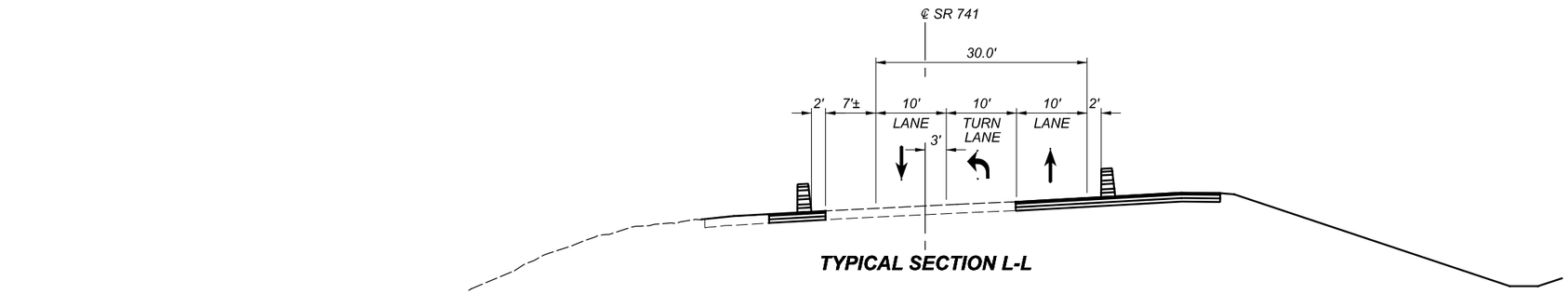
DESIGN AGENCY: JACOBS

MAINTENANCE OF TRAFFIC - PHASE 3
SR 63 - STA. 250+00.00 TO STA. 262+50.00

HORIZONTAL SCALE IN FEET

0 50

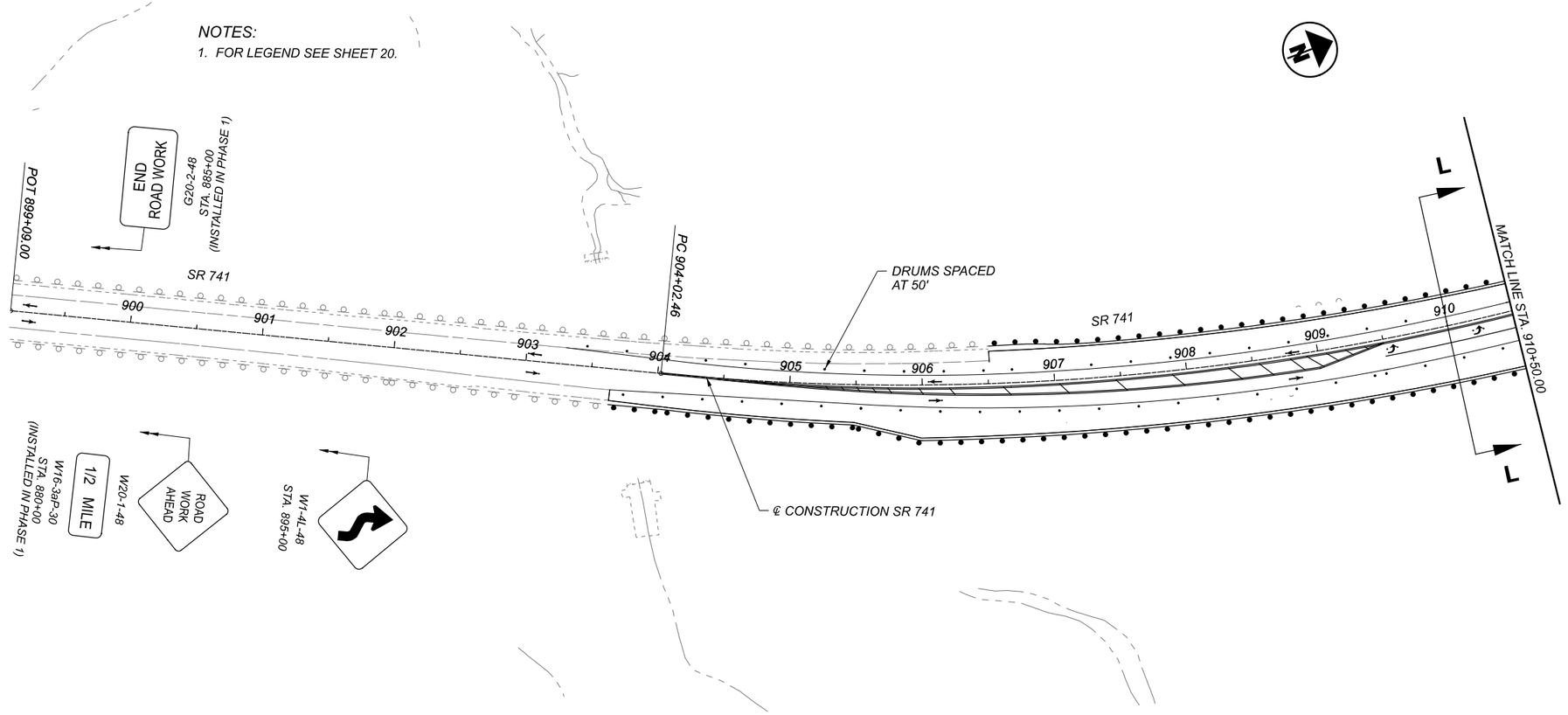
25 100



TYPICAL SECTION L-L

NOTES:

1. FOR LEGEND SEE SHEET 20.



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3
SR 741 - STA. 899+09.00 TO STA. 910+50.00

WAR-63-0.83

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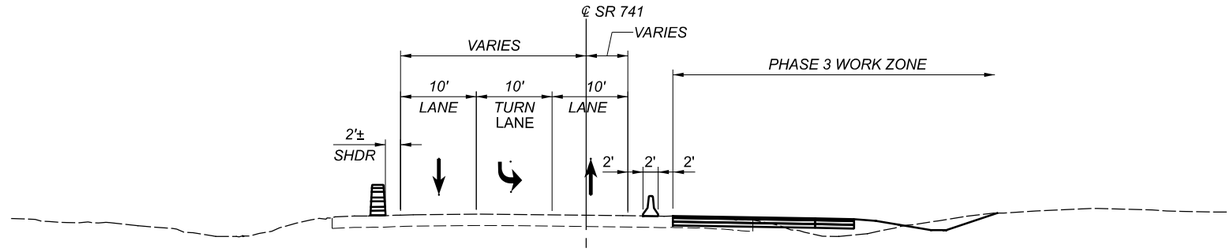
DESIGN AGENCY
JACOBS

DESIGNER
MRP

REVIEWER
RN 08/22/23

PROJECT ID
112121

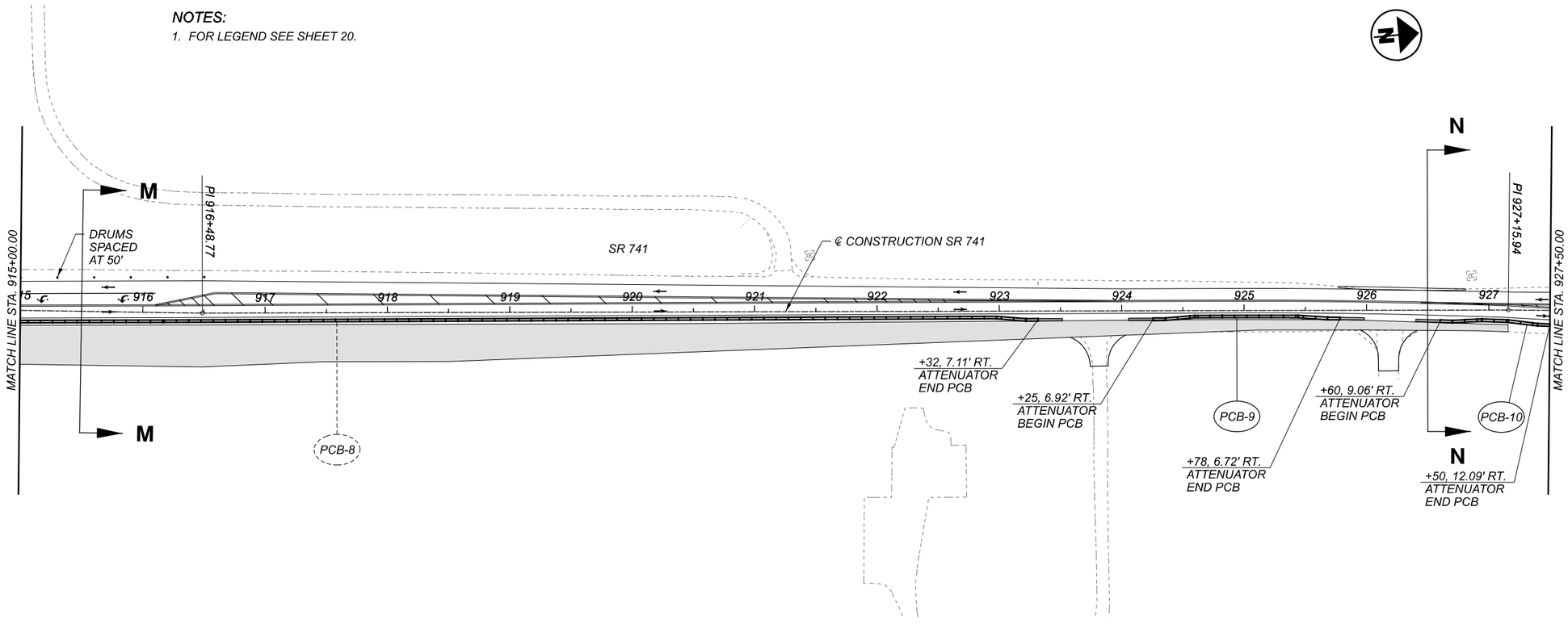
SHEET 71 TOTAL 436

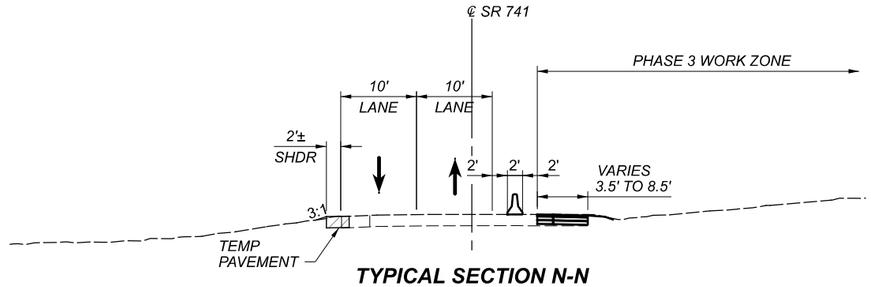


TYPICAL SECTION M-M

NOTES:

1. FOR LEGEND SEE SHEET 20.





TYPICAL SECTION N-N

HORIZONTAL SCALE IN FEET
0 25 50 100

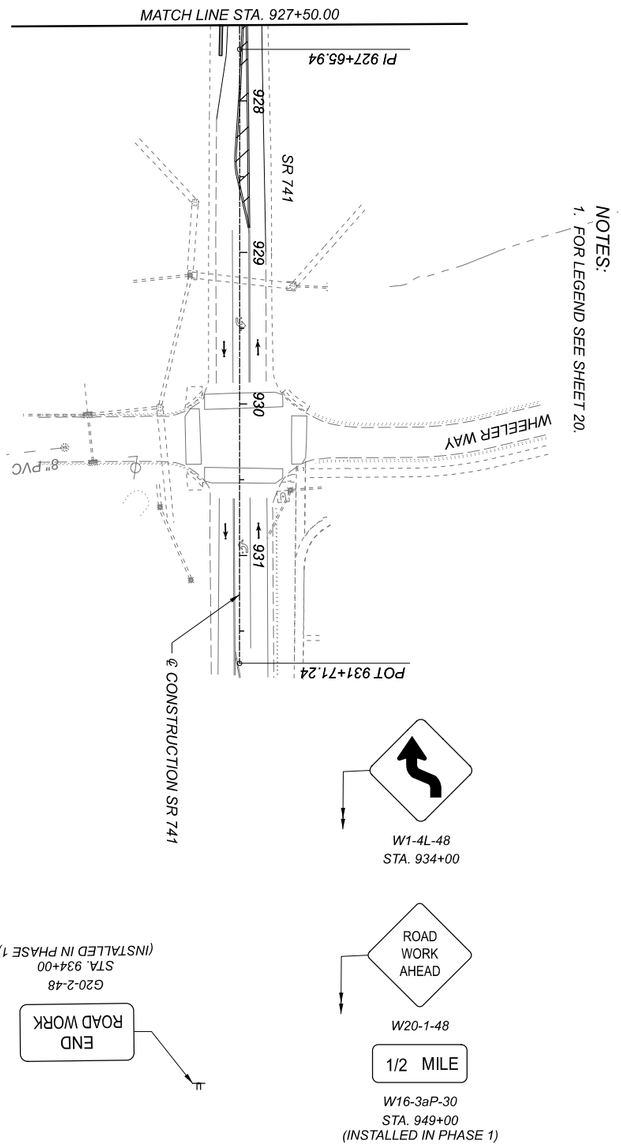
MAINTENANCE OF TRAFFIC - PHASE 3
SR 741 - STA. 915+00.00 TO STA. 927+50.00

DESIGN AGENCY	JACOBS
DESIGNER	MRP
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	72
TOTAL	436

WAR-63-0.83

MODEL: CLP_SR74IF - MOT Phase 3 - Plan IS [Sheet] PAPERSIZE: ITxII(in.) DATE: 8/23/2023 TIME: 1:51:30 PM USER: Tahir.Sondo@Jacobs.com
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SHEET	TOTAL
72A	436

PROJECT ID: 112121

REVIEWER: RN 08/22/23

DESIGNER: MRP

DESIGN AGENCY: JACOBS

MAINTENANCE OF TRAFFIC - PHASE 3
SR 741 - STA. 927+50.00 TO STA. 931+71.24

HORIZONTAL SCALE IN FEET

0 50
25 100

NOTES:

1. THE CONTRACTOR SHALL CONSTRUCT THE TEMPORARY SIGNAL IN PHASE 1 PRIOR TO PHASE 2.

2. CONTRACTOR SHALL ESTABLISH AND MAINTAIN DETECTION ZONES ON ALL APPROACHES AT THE INTERSECTION. THE CONTRACTOR CAN USE THE EXISTING RADAR DETECTORS TO ESTABLISH THE DETECTION ZONES. DETECTION HAS TO BE VERIFIED AS RELIABLE BY ENGINEER. THE CONTRACTOR SHALL REPLACE ANY DEFECTIVE DETECTORS AND/OR DETECTION ZONES IF DEEMED UNRELIABLE BY ENGINEER.

3. THE CONTRACTOR CAN USE THE EXISTING SIGNAL HEADS AND LANE USE SIGNS OR FURNISH NEW NEW SIGNAL HEADS AND SIGNS.

4. THE CONTRACTOR CAN USE THE EXISTING SIGNAL CONTROLLER TO OPERATE THE TEMPORARY SIGNALS OR CAN FURNISH AND INSTALL THE WORK ZONE SIGNAL CONTROL AT THE LOCATION SHOWN ON SHEET 72C. THE CONTROLLER SHALL BE FULLY TRAFFIC-ACTUATED AND OPERATE IN A MANNER SIMILAR TO THAT DESCRIBED IN SECTION 733.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

5. ALL COSTS REQUIRED TO PROVIDE ACTUATED SIGNAL CONTROL SHALL BE CONSIDERED INCIDENTAL TO AND INCLUDED WITH ITEM 614 MAINTAINING TRAFFIC MISC.: TEMPORARY TRAFFIC SIGNAL INSTALLATION (SEE MOT GENERAL NOTES ON SHEET 19).

6. IF REQUIRED THE CONTRACTOR SHALL MOVE THE POLE LOCATIONS SLIGHTLU TO AVOID THE DUKE OVER HEAD LINES.

THE INITIAL CONTROLLER SETTINGS SHALL BE AS FOLLOWS OR THE CONTRACTOR CAN USE THE TIMING FROM THE EXISTING CONTROLLER.

	PHASE				
	2	3	4	6	8
MIN. GREEN	20	10	20	20	20
EXTENSION	4	4	4	4	4
MAX. GREEN	45	25	45	45	45
YELLOW	3.5	3.5	3.5	3.5	3.5
ALL RED	1.5	1.5	1.5	1.5	1.5
MIN. RECALL	OFF	OFF	OFF	OFF	OFF

POLE DETAILS:

REFERENCE SHEET NO.	POLE NO.	STATION & OFFSET	POLE HEIGHT	FOUNDATION ELEVATION	SPAN WIRE ATTACHED HEIGHT
72C	P1	SR 63, STA. 229+21.42', 49.77' LT	38'	839.82'	34'
72C	P2	SR 63, STA. 231+10.72', 70.62' LT	35'	842.50'	31'
72C	P3	SR 63, STA. 230+73.61', 85.07' RT	44'	834.59'	39'
72C	P4	SR 63 STA. 229+43.69, 93.80' RT	44'	833.89'	40'

TEMPORARY SIGNAL GENERAL NOTES

DESIGN AGENCY
JACOBS

DESIGNER
KOB

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 72B | TOTAL 436

WAR-63-0.83

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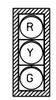
LEGEND

- Traffic Signal Head
- Overhead Traffic Sign
- Proposed Wood Pole
- Proposed Down Guy
- Proposed Detection Zones

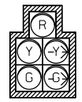
TEMPORARY SIGNALS & SIGNS



H1



H2, H3, H5
H6, H7, H8



H4



S1

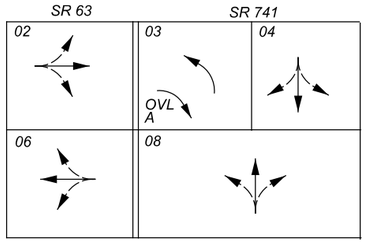


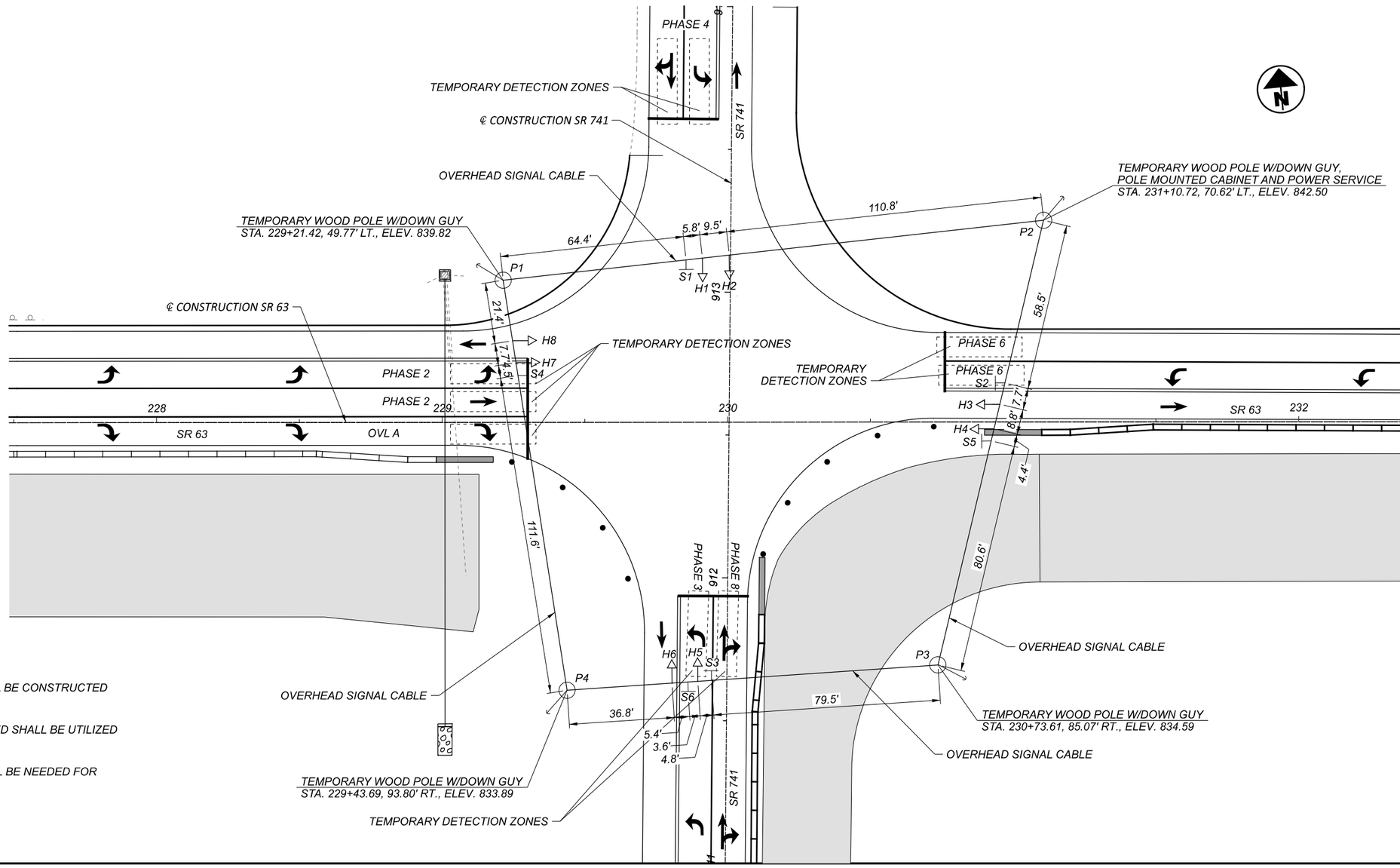
S2, S3, S4, S6



S5

SIGNAL PHASING





NOTES

1. TEMPORARY TRAFFIC SIGNAL SHOWN SHALL BE CONSTRUCTED PRIOR TO PHASE 2.
2. TEMPORARY TRAFFIC SIGNAL CONSTRUCTED SHALL BE UTILIZED FOR PHASE 2, PHASE 2A AND PHASE 3.
3. ADJUSTMENTS TO THE SIGNAL HEADS SHALL BE NEEDED FOR PHASE 2A AND PHASE 3.

HORIZONTAL SCALE IN FEET
0 10 20 40

TEMPORARY SIGNAL - SR 63/SR 741
PHASE 2

DESIGN AGENCY
JACOBS

DESIGNER	KOB
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	72C
TOTAL	436

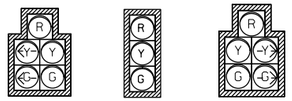
WAR-63-0.83

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LEGEND

- Traffic Signal Head
- Overhead Traffic Sign
- Proposed Wood Pole
- Proposed Down Guy
- Proposed Detection Zones

TEMPORARY SIGNALS & SIGNS

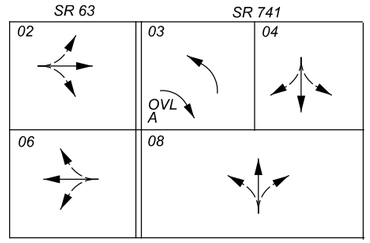


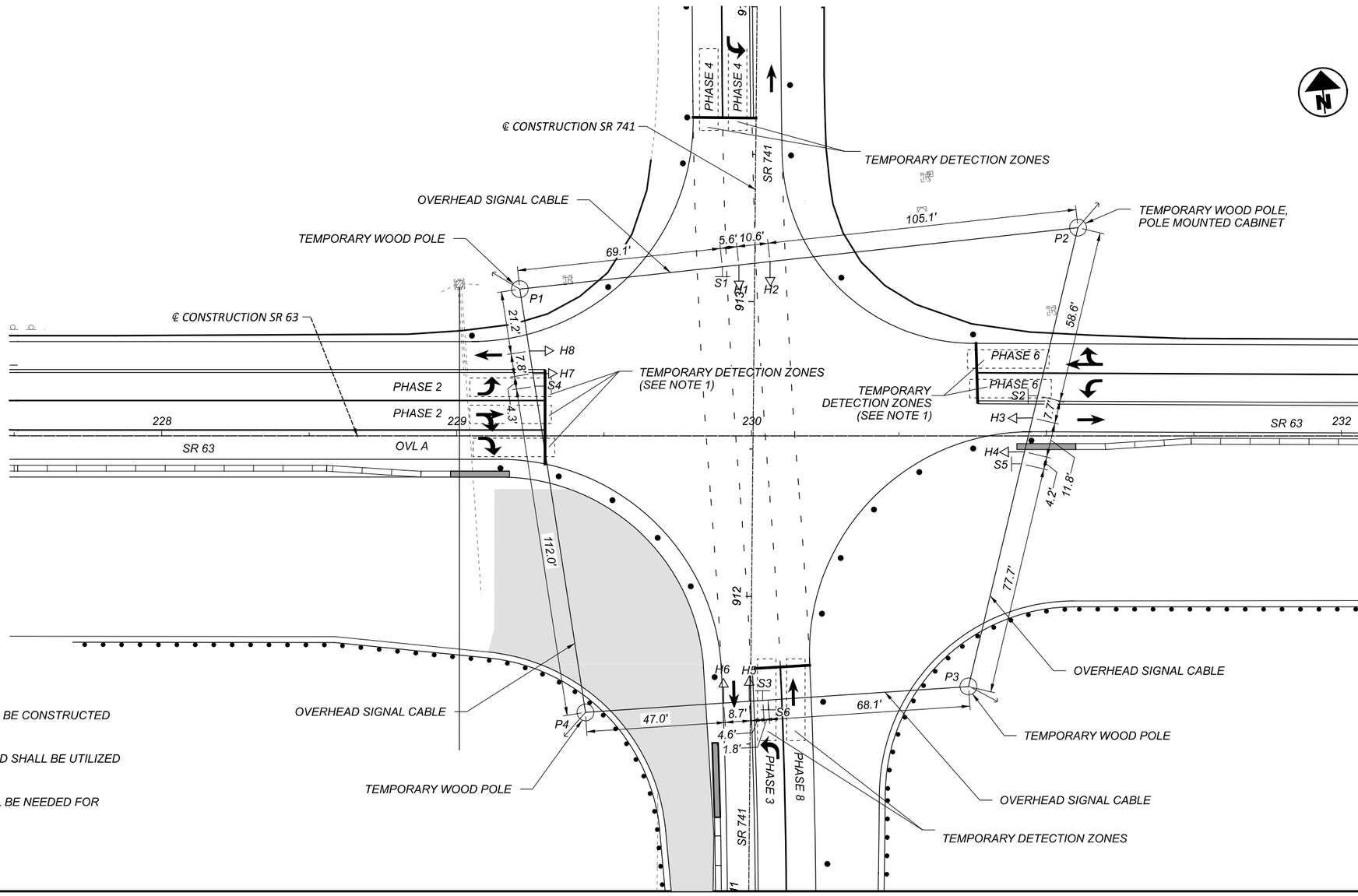
H1 | H2, H3, H5 H6, H7, H8 | H4



S1 | S2, S3, S4, S6 | S5

SIGNAL PHASING





NOTES

1. TEMPORARY TRAFFIC SIGNAL SHOWN SHALL BE CONSTRUCTED PRIOR TO PHASE 2.
2. TEMPORARY TRAFFIC SIGNAL CONSTRUCTED SHALL BE UTILIZED FOR PHASE 2, PHASE 2A AND PHASE 3.
3. ADJUSTMENTS TO THE SIGNAL HEADS SHALL BE NEEDED FOR PHASE 2A AND PHASE 3.

HORIZONTAL SCALE IN FEET
0 10 20 40

TEMPORARY SIGNAL - SR 63/SR 741 PHASE 2A

DESIGN AGENCY
JACOBS

DESIGNER	KOB
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	72D
TOTAL	436

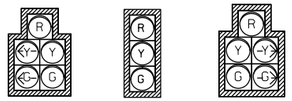
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LEGEND

- Traffic Signal Head
- Overhead Traffic Sign
- Proposed Wood Pole
- Proposed Down Guy
- Proposed Detection Zones

TEMPORARY SIGNALS & SIGNS

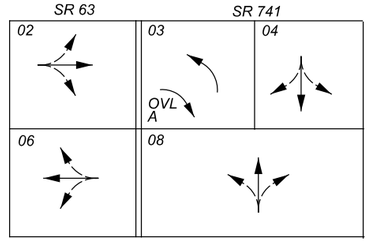


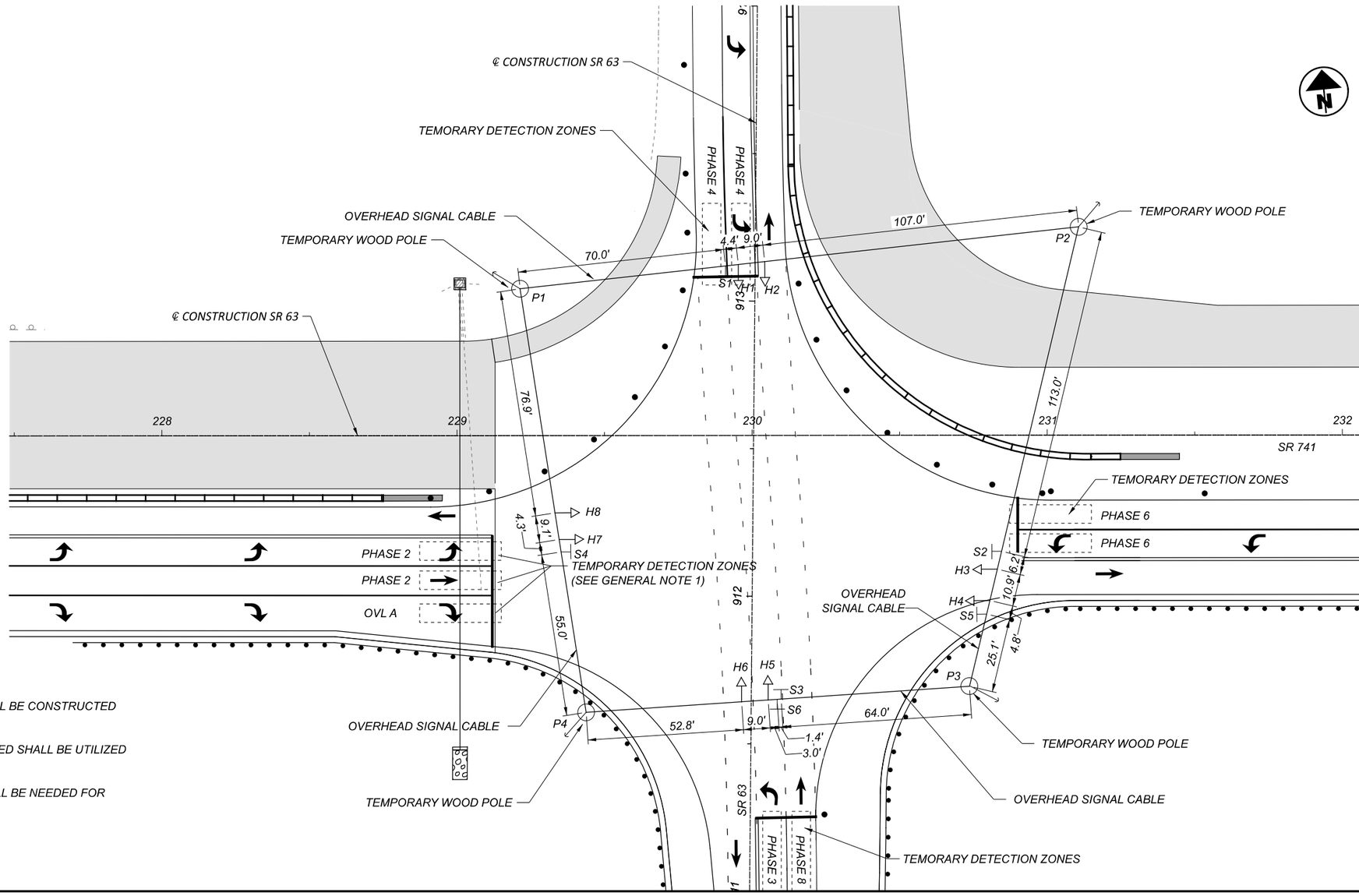
H1 | H2, H3, H5 H6, H7, H8 | H4



S1 | S2, S3, S4, S6 | S5

SIGNAL PHASING





NOTES

1. TEMPORARY TRAFFIC SIGNAL SHOWN SHALL BE CONSTRUCTED PRIOR TO PHASE 2.
2. TEMPORARY TRAFFIC SIGNAL CONSTRUCTED SHALL BE UTILIZED FOR PHASE 2, PHASE 2A AND PHASE 3.
3. ADJUSTMENTS TO THE SIGNAL HEADS SHALL BE NEEDED FOR PHASE 2A AND PHASE 3.

HORIZONTAL SCALE IN FEET
0 10 20 40

TEMPORARY SIGNAL - SR 63/SR 741 PHASE 3

DESIGN AGENCY
JACOBS

DESIGNER	KOB
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	72E
TOTAL	436

WAR-63-0.83

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SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
14	15	16	78	79	80	81	81A				88	CTY							
																		ROADWAY	
LUMP												LUMP		201	11000	LS		CLEARING AND GRUBBING	14
			9									9		202	20010	9	EACH	HEADWALL REMOVED	
						77,742						77,742		202	23000	77,742	SY	PAVEMENT REMOVED	
			1,631									1,631		202	32000	1,631	FT	CURB REMOVED	
			2,263									2,263		202	35100	2,263	FT	PIPE REMOVED, 24" AND UNDER	
			20									20		202	35200	20	FT	PIPE REMOVED, OVER 24"	
			4,940									4,940		202	38000	4,940	FT	GUARDRAIL REMOVED	
			4									4		202	58000	4	EACH	MANHOLE REMOVED	
			14									14		202	58100	14	EACH	CATCH BASIN REMOVED	
			8,599									8,599		202	75000	8,599	FT	FENCE REMOVED	
			6									6		202	75250	6	EACH	GATE REMOVED	
			8									8		202	98100	8	EACH	REMOVAL MISC.:STEEL POST	
			2									2		202	98100	2	EACH	REMOVAL MISC.:BRICK PILLARS	14
			123									123		202	98200	123	FT	REMOVAL MISC.:PVC FENCE FOR STORAGE	16
			87									87		202	98200	87	FT	REMOVAL MISC.:DECORATIVE BRICK CURB	97
5,200												5,200		202	98200	5,200	FT	REMOVAL MISC.:ABANDONED GAS LINE REMOVAL AND DISPOSAL	14
650												650		202	98200	650	FT	REMOVAL MISC.: ABANDONED WATER SERVICE LINE AND DISPOSAL	14
2,123					81,418							83,541		203	10000	83,541	CY	EXCAVATION	
											953	953		203	10001	953	CY	EXCAVATION, AS PER PLAN	91
2,123					56,023						68	58,214		203	20000	58,214	CY	EMBANKMENT	
				828								828		204	10000	828	SY	SUBGRADE COMPACTION	
				322								322		204	13000	322	CY	EXCAVATION OF SUBGRADE	
				322								322		204	30020	322	CY	GRANULAR MATERIAL, TYPE C	
62												62		204	45000	62	HOUR	PROOF ROLLING	14
				828								828		204	50000	828	SY	GEOTEXTILE FABRIC	
				3,717								3,717		206	10500	3,717	TON	CEMENT	
				123,043								123,043		206	11000	123,043	SY	CURING COAT	
				123,043								123,043		206	15020	123,043	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	
		LUMP										LUMP		206	30001	LS		MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS, AS PER PLAN	16
				5,775								5,775		606	15050	5,775	FT	GUARDRAIL, TYPE MGS	
				2,250								2,250		606	15100	2,250	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS	
				325								325		606	15150	325	FT	GUARDRAIL, TYPE MGS HALF POST SPACING	
				100								100		606	15200	100	FT	GUARDRAIL, TYPE MGS HALF POST SPACING WITH LONG POSTS	
				312.5								312.5		606	15250	312.5	FT	GUARDRAIL, TYPE MGS QUARTER POST SPACING	
				350								350		606	15300	350	FT	GUARDRAIL, TYPE MGS QUARTER POST SPACING WITH LONG POSTS	
				14								14		606	26150	14	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016	
				12								12		606	26550	12	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
				1								1		606	35002	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
				1								1		606	35102	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
							6,131					6,131		607	15000	6,131	FT	FENCE, TYPE 47	
							2					2		607	61111	2	EACH	GATE REBUILT, AS PER PLAN	16
							1,752					1,752		607	98000	1,752	FT	FENCE, MISC.:SECURITY FENCE	16
	LUMP											LUMP		623	11000	LS		PROVIDING ELECTRONIC INSTRUMENTATION	15
	8											8		623	11100	8	HOUR	TECHNICAL ASSISTANCE	15
		7										7		623	39500	7	EACH	MONUMENT ASSEMBLY ADJUSTED TO GRADE	16
		24										24		623	40500	24	EACH	REFERENCE MONUMENT, TYPE A	16
							11					11		625	32000	11	EACH	GROUND ROD	
	2											2		SPECIAL	69098000	2	EACH	SETTLEMENT PLATFORMS	15
LUMP												LUMP		SPECIAL	69098400	LS		LOCATE PRIVATE UTILITIES	14
LUMP												LUMP		SPECIAL	69098400	LS		MAINTAIN EXISTING PRIVATE SIGN	14
	LUMP											LUMP		SPECIAL	69098400	LS		CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION	15
	LUMP											LUMP		878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	15

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DESIGN AGENCY
JACOBS
DESIGNER
TES
REVIEWER
RN 08/22/23
PROJECT ID
112121
SHEET 73
TOTAL 436

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
	15					81	81A	82	83	85A	88	CTY							
																		EROSION CONTROL	
						46						46		601	11000	46	SY	RIPRAP, TYPE D	
									250	56		306		601	21050	306	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
											731	731		601	21060	731	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	
						35	16					51		601	32100	51	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
	50					4		4				58		601	32200	58	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
											1,013	1,013		601	45050	1,013	CY	BIORETENTION CELL	16A
	8											8		659	00100	8	EACH	SOIL ANALYSIS TEST	
	13,334											13,334		659	00300	13,334	CY	TOPSOIL	
						120,122						120,122		659	10000	120,122	SY	SEEDING AND MULCHING	
	6,007											6,007		659	14000	6,007	SY	REPAIR SEEDING AND MULCHING	
	6,007											6,007		659	15000	6,007	SY	INTER-SEEDING	
	17											17		659	20000	17	TON	COMMERCIAL FERTILIZER	
	25											25		659	31000	25	ACRE	LIME	
	665											665		659	35000	665	MGAL	WATER	
	271											271		659	40000	271	MSF	MOWING	
									2,216			2,216		670	00500	2,216	SY	SLOPE EROSION PROTECTION	
									7,272			7,272		670	00700	7,272	SY	DITCH EROSION PROTECTION	
											1,330	1,330		671	15000	1,330	SY	EROSION CONTROL MAT, TYPE A	
												LUMP		832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
												LUMP		832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
												LUMP		832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
												200,000		832	30000	200,000	EACH	EROSION CONTROL	
									2,104			2,104		836	10000	2,104	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	
																		DRAINAGE	
						5		2				7		602	20000	7	CY	CONCRETE MASONRY	
											1,609	1,609		605	05101	1,609	FT	4" SHALLOW PIPE UNDERDRAINS, AS PER PLAN	91
										24,951		24,951		605	11100	24,951	FT	6" SHALLOW PIPE UNDERDRAINS	
										7,623		7,623		605	13300	7,623	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
										37,497		37,497		605	14000	37,497	FT	6" BASE PIPE UNDERDRAINS	
											540	540		611	00200	540	FT	4" CONDUIT, TYPE C, 707.33, 707.42 OR 707.45	
										1,731		1,731		611	00510	1,731	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
	100											100		611	00900	100	FT	6" CONDUIT, TYPE B	
	50											50		611	01400	50	FT	6" CONDUIT, TYPE E	
	100											100		611	01500	100	FT	6" CONDUIT, TYPE F	
								1,664				1,664		611	04400	1,664	FT	12" CONDUIT, TYPE B	
								103				103		611	04600	103	FT	12" CONDUIT, TYPE C	
								184				184		611	04900	184	FT	12" CONDUIT, TYPE D	
								285				285		611	05900	285	FT	15" CONDUIT, TYPE B	
								20				20		611	06100	20	FT	15" CONDUIT, TYPE C	
								200				200		611	06400	200	FT	15" CONDUIT, TYPE D	
								322				322		611	07400	322	FT	18" CONDUIT, TYPE B	
								175				175		611	07600	175	FT	18" CONDUIT, TYPE C	
								300				300		611	07900	300	FT	18" CONDUIT, TYPE D	
								460				460		611	09100	460	FT	21" CONDUIT, TYPE C	
								333				333		611	10400	333	FT	24" CONDUIT, TYPE B	
								19				19		611	10600	19	FT	24" CONDUIT, TYPE C	
								23				23		611	10900	23	FT	24" CONDUIT, TYPE D	
						48						48		611	22200	48	FT	54" CONDUIT, TYPE A, 707.02(0.138) (ALUMINIZED)	
						20						20		611	27000	20	FT	78" CONDUIT, TYPE A, 707.02(0.168) (ALUMINIZED)	
						158						158		611	96600	158	FT	CONDUIT, BORED OR JACKED, 24", 748.06	
						125						125		611	96600	125	FT	CONDUIT, BORED OR JACKED, 30", 748.06	
								3				3		611	98150	3	EACH	CATCH BASIN, NO. 3	
								20				20		611	98180	20	EACH	CATCH BASIN, NO. 3A	

GENERAL SUMMARY

DESIGN AGENCY
JACOBS

DESIGNER TES
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 74 TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 9/6/2023 TIME: 8:27:58 AM USER: munna
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A182f00 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GG002.dgn

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
14	16	16B	78	79	81	81A	82	85A	370A	372	372A	CTY							
																		DRAINAGE	
							6					6		611	98300	6	EACH	CATCH BASIN, NO. 5	
							2					2		611	98370	2	EACH	CATCH BASIN, NO. 6	
							2					2		611	98470	2	EACH	CATCH BASIN, NO. 2-2B	
							3					3		611	99574	3	EACH	MANHOLE, NO. 3	
			2									2		611	99654	2	EACH	MANHOLE ADJUSTED TO GRADE	
			2									2		611	99660	2	EACH	MANHOLE RECONSTRUCTED TO GRADE	
								27				27		611	99710	27	EACH	PRECAST REINFORCED CONCRETE OUTLET	
																		PAVEMENT	
				25,269								25,269		254	01000	25,269	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3.25"	
				16,547								16,547		301	56000	16,547	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
					112							112		301	56100	112	CY	ASPHALT CONCRETE BASE, PG64-22, (449), (DRIVEWAYS)	
				20,356	59							20,415		304	20000	20,415	CY	AGGREGATE BASE	
					50							50		407	10000	50	GAL	TACK COAT	
				18,730								18,730		407	20000	18,730	GAL	NON-TRACKING TACK COAT	
					30							30		441	70000	30	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
				12,955								12,955		442	00100	12,955	CY	ANTI-SEGREGATION EQUIPMENT	
				5,980								5,980		442	10000	5,980	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	
				6,975								6,975		442	10080	6,975	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	
				29								29		442	22300	29	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (449), LEVELLING	
				3,463								3,463		609	23000	3,463	FT	COMBINATION CURB AND GUTTER, TYPE 4	
				18								18		609	24510	18	FT	CURB, TYPE 4-C	
		LUMP										LUMP		SPECIAL	69098400	LS		CONSULTANT FOR ASPHALT CONCRETE QUALITY ASSURANCE INCLUDING MONITORING	16A, 16B
				85,852								85,852		872	10000	85,852	FT	VOID REDUCING ASPHALT MEMBRANE (VRAM)	
																		WATER WORK	
						2						2		SPECIAL	69098000	2	EACH	4" GATE VALVE WITH VALVE BOX (WARREN COUNTY)	16
						2						2		SPECIAL	69098000	2	EACH	16" X 16" TAPPING SLEEVE, VALVE AND VALVE BOX (WARREN COUNTY)	16
						2						2		SPECIAL	69098000	2	EACH	2" AIR RELEASE VALVE WITH VALVE BOX (WARREN COUNTY)	16
						2						2		SPECIAL	69098000	2	EACH	CUT AND PLUG EXISTING 16" WATER LINE (WARREN COUNTY)	16
						307						307		SPECIAL	69098100	307	FT	16" WATER MAIN DIP AND FITTINGS (WARREN COUNTY)	16
						3,500						3,500		SPECIAL	69098100	3,500	FT	4" WATER MAIN POLYVINLY CHLORIDE PIPE AND FITTINGS(WARREN COUNTY)	16
						290						290		SPECIAL	69098100	290	FT	10" STEEL PIPE ENCASED, BORED OR JACKED (WARREN COUNTY)	16
						138						138		SPECIAL	69098100	138	FT	24" STEEL PIPE ENCASEMENT BORED OR JACKED (WARREN COUNTY)	16
						75						75		SPECIAL	69098100	75	FT	MISC.: CONCRETE ENCASEMENT (WARREN COUNTY)	16
						LUMP						LUMP		SPECIAL	69098400	LS		MISC.: LARGE DOMESTIC WATER PIT (WARREN COUNTY)	16
	LUMP											LUMP		SPECIAL	69098400	LS		WATER WORK MISC.: LOWER EXISTING WATER SERVICE LINE AT STA. 157+98	16
	LUMP											LUMP		SPECIAL	69098400	LS		WATER WORK MISC.: LOWER EXISTING WATER SERVICE LINE AT STA. 172+50	16
																		TRAFFIC CONTROL	
										159	1,039	1,198		621	00100	1,198	EACH	RPM	
370												370		621	54000	370	EACH	RAISED PAVEMENT MARKER REMOVED	14
				124								124		626	00110	124	EACH	BARRIER REFLECTOR, TYPE 2, BI-DIRECTIONAL	
									933			933		630	03100	933	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
									36			36		630	04100	36	FT	GROUND MOUNTED SUPPORT, NO. 4 POST	
									39			39		630	06100	39	FT	GROUND MOUNTED SUPPORT, NO. 6 POST	
									34			34		630	06400	34	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7	
									12			12		630	08600	12	EACH	SIGN POST REFLECTOR	
									2			2		630	09000	2	EACH	BREAKAWAY STRUCTURAL BEAM CONNECTION	
									463			463		630	80100	463	SF	SIGN, FLAT SHEET	

GENERAL SUMMARY

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 75 | TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 9/6/2023 TIME: 8:28:28 AM USER: munna
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SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
		17	18	19		24	369	370A	372	372A		CTY							
																		TRAFFIC CONTROL	
								30				30		630	80200	30	SF	SIGN, GROUND MOUNTED EXTRUSHEET	
								2				2		630	84500	2	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	
							101					101		630	84900	101	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
							2					2		630	85100	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
							95					95		630	86002	95	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
							3					3		630	87500	3	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	
									1.21			1.21		644	00104	1.21	MILE	EDGE LINE, 6"	
									0.12			0.12		644	00204	0.12	MILE	LANE LINE, 6"	
									0.79			0.79		644	00300	0.79	MILE	CENTER LINE	
									2,426			2,426		644	00404	2,426	FT	CHANNELIZING LINE, 12"	
									748			748		644	00500	748	FT	STOP LINE	
									3,570			3,570		644	00700	3,570	FT	TRANSVERSE/DIAGONAL LINE	
									295			295		644	00720	295	FT	CHEVRON MARKING	
									308			308		644	00900	308	SF	ISLAND MARKING	
									4			4		644	01000	4	EACH	RAILROAD SYMBOL MARKING	
									46	106		152		644	01300	152	EACH	LANE ARROW	
									4			4		644	01350	4	EACH	LANE REDUCTION ARROW	
									660			660		644	01510	660	FT	DOTTED LINE, 6"	
										5.9		5.9		807	14010	5.9	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6"	
										5.4		5.4		807	14110	5.4	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"	
										5.4		5.4		807	14200	5.4	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CENTER LINE	
										7,125		7,125		807	14310	7,125	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12"	
										1,021		1,021		807	14410	1,021	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6"	
										10.8		10.8		850	10000	10.8	MILE	GROOVING FOR 4" RECESSED PAVEMENT MARKING, (ASPHALT)	
										11.2		11.2		850	10010	11.2	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
										1,021		1,021		850	10110	1,021	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
										7,125		7,125		850	10130	7,125	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	
																		TRAFFIC SIGNALS	
																		FOR TRAFFIC SIGNAL GENERAL SUMMARY SEE SHEET 391 OF 436	
																		RETAINING WALLS	
																		FOR RETAINING WALL ESTIMATED QUANTITIES SEE SHEET 364 OF 436	
																		STRUCTURE 20 FOOT SPAN AND UNDER (WAR-63-0248, SFN 8301486)	
																		FOR ESTIMATED QUANTITIES SEE SHEET 351 OF 436	
																		STRUCTURE 20 FOOT SPAN AND UNDER (WAR-63-0349, SFN 8301514)	
																		FOR ESTIMATED QUANTITIES SEE SHEET 358 OF 436	
																		MAINTENANCE OF TRAFFIC	
		500										500		410	11000	500	CY	TRAFFIC COMPACTED SURFACE, TYPE B	
			80									80		614	11110	80	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
							41					41		614	12380	41	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
				10								10		614	12460	10	EACH	WORK ZONE MARKING SIGN	
							813					813		614	12801	813	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	19
		500										500		614	13000	500	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
			378									378		614	13310	378	EACH	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL	
			378									378		614	13360	378	EACH	OBJECT MARKER, TWO WAY	
				2								2		614	18000	2	EACH	MAINTAINING TRAFFIC, MISC.:TEMPORARY TRAFFIC SIGNAL INSTALLATION	19
				1								1		614	18000	1	EACH	MAINTAINING TRAFFIC, MISC.:ADJUST EXISTING TRAFFIC SIGNAL HEADS	19
				5.5		1						6.5		614	20000	6.5	MILE	WORK ZONE LANE LINE, CLASS I, 4"	
				5.5								5.5		614	20550	5.5	MILE	WORK ZONE LANE LINE, CLASS III, 4", 642 PAINT	
				6.6		9.4						16		614	21000	16	MILE	WORK ZONE CENTER LINE, CLASS I	

GENERAL SUMMARY

DESIGN AGENCY
JACOBS

DESIGNER TES
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 76 TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 9/6/2023 TIME: 8:28:57 AM USER: munna
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SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
		17	18	19	24							CTY							
																		MAINTENANCE OF TRAFFIC	
				6.6								6.6		614	21550	6.6	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
				6.8	14.5							21.3		614	22000	21.3	MILE	WORK ZONE EDGE LINE, CLASS I, 4"	
				6.8								6.8		614	22350	6.8	MILE	WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT	
				9,974	9,073							19,047		614	23000	19,047	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8"	
				9,974								9,974		614	23680	9,974	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT	
					836							836		614	24000	836	FT	WORK ZONE DOTTED LINE, CLASS I	
					1,364							1,364		614	25000	1,364	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I	
					514							514		614	26000	514	FT	WORK ZONE STOP LINE, CLASS I	
					115							115		614	30000	115	EACH	WORK ZONE ARROW, CLASS I	
					2							2		614	32000	2	EACH	WORK ZONE RAILROAD SYMBOL MARKING, CLASS I	
			LUMP									LUMP		615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	18
				1,115	10,483							11,598		615	25001	11,598	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN	19
		10	275									285		616	10000	285	MGAL	WATER	
					17,186							17,186		622	41100	17,186	FT	PORTABLE BARRIER, UNANCHORED	
					1,620							1,620		622	41110	1,620	FT	PORTABLE BARRIER, ANCHORED	
					124							124		642	00720	124	FT	CHEVRON MARKING, TYPE 1	
																		INCIDENTALS	
												LUMP		108	10000	LS		CPM PROGRESS SCHEDULE	
												LUMP		614	11000	LS		MAINTAINING TRAFFIC	
												24		619	16020	24	MNTH	FIELD OFFICE, TYPE C	
												LUMP		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
												LUMP		624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

WAR-63-0.83

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DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 76A | TOTAL 436

REMOVAL SUBSUMMARY

REF NO.	SHEET NO.	STATION TO STATION					202 HEADWALL REMOVED EACH	202 CURB REMOVED FT	202 PIPE REMOVED, 24" AND UNDER FT	202 PIPE REMOVED, OVER 24" FT	202 GUARDRAIL REMOVED FT	202 MANHOLE REMOVED EACH	202 CATCH BASIN REMOVED EACH	202 FENCE REMOVED FT	202 GATE REMOVED EACH	202 REMOVAL MISC.:STEEL POST EACH	202 REMOVAL MISC.:REMOVE BRICK PILLARS EACH	202 REMOVAL MISC.:PVC FENCE FOR STORAGE FT	202 REMOVAL MISC.: DECORATIVE BRICK CURB FT		611 MANHOLE ADJUSTED TO GRADE EACH	611 MANHOLE RECONSTRUCTED TO GRADE EACH					
		SR 63		TO	**SR 63**																						
R-1	93	108+69.50	RT		109+41.30	RT			72			1	1														
R-2	93	109+41.30	RT		110+00.00	RT			67			1	1														
R-3	93	109+41.30	RT		109+40.40	LT	1		167				2														
R-4	93	107+16.80	RT		110+00.00	RT		284																			
R-5	93	107+21.30	LT		110+00.00	LT		279																			
R-1	94	110+00.00	RT		111+69.00	RT			241			2	2														
R-2	94	110+00.00	RT		115+00.00	RT		500																			
R-3	94	112+74.50	RT		115+00.00	RT			223				2														
R-4	94	113+52.50	RT		115+00.00	RT								181													
R-5	94	110+00.00	LT		115+00.00	LT		502																			
R-6	94	111+68.40	LT		115+00.00	LT					334																
R-1	95	115+00.00	RT		115+63.70	RT			64				1														
R-2	95	115+63.70	RT		117+19.90	RT			158				1														
R-3	95	115+00.00	RT		120+00.00	RT								538													
R-4	95	115+00.00	RT		117+07.80	RT			208																		
R-5	95	119+35.00	RT		120+00.00	RT			65																		
R-6	95	115+63.70	RT		115+64.20	LT			69				1														
R-7	95	115+00.00	LT		115+66.40	LT		66																			
R-8	95	115+00.00	LT		115+79.60	LT					85																
R-9	95	115_64.2	LT		116+27.40	LT			64				1														
R-10	95	116+86.90	LT		120+00.00	LT					321																
R-1	96	120+00.00	RT		120+21.90	RT			22																		
R-2	96	121+39.80	RT		121+86.00	RT			47																		
R-3	96	120+00.00	RT		125+00.00	RT								523													
R-4	96	120+00.00	LT		125+00.00	LT					500																
R-1	97	125+00.00	RT		127+13.60	RT								233													
R-2	97	125+00.00	LT		128+45.50	LT					346																
R-3	97	127+84.00	RT		127+97.00	RT														87							
SAN-1	98	134+39.30	RT																			1					
R-1	99	135+81.00	RT		140+00.00	RT								421													
R-2	99	137+55.20	LT		140+00.00	LT								266													
R-1	100	140+00.00	RT		140+35.00	RT								38													
SAN-2	100	140+54.50	RT																			1					
R-2	100	140+00.00	LT		142+10.00	LT								216													
R-3	100	144+29.22	RT		145+00.00	RT								103	1												
R-4	100	142+10.00	LT													2											
R-1	101	145+00.00	RT		150+00.00	RT								622	3												
R-1	102	150+00.00	RT		155+00.00	RT								506.4													
R-2	102	154+21.00	LT		154+26.60	RT	2		58																		
R-1	103	155+00.00	RT		160+00.00	RT								535													
R-1	104	160+00.00	RT		165+00.00	RT								500													
R-1	105	165+00.00	RT		170+00.00	RT								500													
R-2	105	166+61.00	LT		157+29.40	RT	2		124				1														
R-3	105	167+06.50	LT		170+00.00	LT								312													
R-4	105	167+36.00	LT		167+38.00	RT			56																		
R-1	106	170+00.00	RT		174+90.50	RT								551	1												
R-2	106	170+00.00	LT		171+57.70	LT								170													
R-3	106	171+92.70	LT		175+00.00	LT								325													
TOTALS CARRIED TO SHEET NO. 78							5	1631	1705		1586	4	13	6541	5	2			87			2					

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 77 | TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:52:54 PM USER: Tahir.Sondo@jacobs.com
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REF NO.	SHEET NO.	STATION TO STATION					202 HEADWALL REMOVED EACH	202 CURB REMOVED FT	202 PIPE REMOVED, 24" AND UNDER FT	202 PIPE REMOVED, OVER 24" FT	202 GUARDRAIL REMOVED FT	202 MANHOLE REMOVED EACH	202 CATCH BASIN REMOVED EACH	202 FENCE REMOVED FT	202 GATE REMOVED EACH	202 REMOVAL MISC.:STEEL POST EACH	202 REMOVAL MISC.:REMOVE BRICK PILLARS EACH	202 REMOVAL MISC.:PVC FENCE FOR STORAGE FT	202 REMOVAL MISC.: DECORATIVE BRICK CURB FT		611 MANHOLE ADJUSTED TO GRADE EACH	611 MANHOLE RECONSTRUCTED TO GRADE EACH					
		SR 63		TO	**SR 63**																						
R-1	107	175+00.00	LT		175+17.20	LT								43													
R-2	107	175+04.00	RT												1												
R-1	108	180+83.60	RT		181+06.89	RT												61									
R-2	108	182+57.84	RT		185+00.00	RT								206				62									
R-3	108	181+57.02	RT														1										
R-4	108	182+07.03	RT														1										
R-1	109	185+00.00	RT		190+00.00	RT								500													
R-2	109	189+95.00	LT		190+00.00	LT			5																		
R-3	109	187+11.00	LT													2											
R-4	109	187+34.00	LT													2											
R-1	110	190+00.00	RT		195+00.00	RT								500													
R-2	110	190+00.00	LT		194+34.50	LT			435				1														
MH-1	110	193+35.90	LT																		1						
MH-2	110	194+54.60	LT																		1						
R-1	111	195+00.00	RT		197+02.70	RT								220													
R-2	111	197+13.90	RT		197+18.90	RT								17													
R-3	111	197+40.00	RT													2											
R-1	115	221+25.40	RT		221+29.50	RT	1			9																	
R-2	115	218+13.70	RT		222+00.00	RT					487																
R-3	115	217+53.50	LT		222+00.00	LT					447																
R-1	116	222+00.00	RT		223+16.60	RT					117																
R-2	116	223+97.40	RT		227+00.00	RT								354													
R-3	116	222+00.00	LT		223+90.20	LT					191																
R-4	116	226+85.70	LT		227+60.40	LT					74																
R-1	117	227+50.00	RT		229+36.50	RT								218													
R-2	117	229+00.90	LT		229+08.40	RT	1		118																		
R-3	117	231+74.70	RT		233+00.00	RT					125																
R-4	117	232+85.00	LT		233+00.00	LT					15																
R-1	118	233+00.00	RT		235+52.80	RT					353																
R-2	118	234+37.60	RT				1			4																	
R-3	118	234+39.50	LT				1			7																	
R-4	118	233+00.00	LT		237+37.80	LT					438																
R-1	120	245+74.40	RT		248+00.00	RT					226																
R-1	121	248+00.00	RT		248+77.80	RT					78																
		SR 741			**SR 741**																						
R-1	123	903+65.10	RT		906+00.00	RT					238																
R-1	124	906+00.00	RT		908+79.90	RT					284																
R-2	124	906+51.15	LT		909+36.50	LT					281																
TOTALS THIS SHEET							4	0	558	20	3354	0	1	2058	1	6	2	123	0		2	0					
TOTALS FROM SHEET NO. 77							5	1631	1705		1586	4	13	6541	5	2			87			2					
TOTALS CARRIED TO GENERAL SUMMARY							9	1631	2263	20	4940	4	14	8599	6	8	2	123	87		2	2					

REMOVAL SUBSUMMARY

DESIGN AGENCY
JACOBS

DESIGNER TES
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 78 TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:53:23 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN\003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GS002.dgn

REF NO.	SHEET NO.	STATION TO STATION					204 GRANULAR MATERIAL, TYPE C CY	204 GEOTEXTILE FABRIC SY	204 SUBGRADE COMPACTION SY	206 CEMENT TON	206 CURING COAT SY	206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP SY	204 EXCAVATION OF SUBGRADE CY	254 PAVEMENT PLANING, ASPHALT CONCRETE SY		301 5" ASPHALT CONCRETE BASE, PG64-22, (449) CY	304 AGGREGATE BASE CY	407 NON-TRACKING TACK COAT GAL		442 ANTI-SEGREGATION EQUIPMENT CY	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446) CY	442 ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446) CY	442 ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (449), LEVELLING CY		609 COMBINATION CURB AND GUTTER, TYPE 4 FT	609 CURB, TYPE 4-C FT	872 VOID REDUCING ASPHALT MEMBRANE (VRAM) FT
		SR 63		TO	**SR 63**																						
	93-95	107+16.75			119+50.00		322	828	828	69	2261	2261	322	7447		323	538	1620		883	408	475	29				1234
	95-117	119+50.00			229+77.15					3161	104691	104691				14088	17203	12083		9091	4196	4895					66162
	117-122	229+77.15			254+30.00					297	9830	9830		9019		1311	1601	2741		1657	765	892					9812
		SR 741			**SR 741**																						
	123, 124	903+65.11			911+33.11					75	2476	2476		3009		322	398	814		477	220	257					3840
	125-127	913+15.16			927+15.77					115	3785	3785		5794		503	616	1472		847	391	456					4804
		SR 63			**SR 63**																						
C-1	93-95	107+21.30	LT		115+63.53	LT																			843		
C-2	93-96	107+16.75	RT		120+10.00	RT																			1294		
C-3	95-96	117+08.15	LT		120+10.00	LT																			302		
C-4	97-98	126+35.00	LT		132+25.00	LT																			590		
C-5	101	145+22.17	LT		146+52.86	LT																			235		
C-6	101	147+00.85	LT		148+04.76	LT																			199		
C-7	116	226+84.04	LT		227+02.04	LT																				18	
TOTALS CARRIED TO GENERAL SUMMARY							322	828	828	3717	123043	123043	322	25269		16547	20356	18730		12955	5980	6975	29		3463	18	85852

REF NO.	SHEET NO.	STATION TO STATION					606 GUARDRIAL, TYPE MGS FT	606 GUARDRAIL, TYPE MGS WITH LONG POSTS FT	606 GUARDRAIL, TYPE MGS HALF POST SPACING FT	606 ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016 EACH	606 ANCHOR ASSEMBLY, MGS TYPE T EACH	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 EACH	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2 EACH			606 GUARDRAIL, TYPE MGS QUARTER POST SPACING FT		606 GUARDRAIL, TYPE MGS HALF POST SPACING WITH LONG POSTS FT	606 GUARDRAIL, TYPE MGS QUARTER POST SPACING WITH LONG POSTS FT		626 BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL (WHITE/WHITE) EACH
				TO																	
		SR 63			**SR 63**																
GR-1	94-95	111+38.86	LT		115+79.57	LT		375			1							25	25		6
GR-2	95-98	116+86.97	LT		133+25.45	LT	462.5	737.5		1								75	325		18
GR-3	102-103	152+25.00	RT		155+12.50	RT	237.5			1	1										4
GR-4	102-103	153+37.50	LT		155+75.00	LT	187.5			1	1										4
GR-5	105	165+37.50	LT		168+75.00	LT	287.5			1	1										5
GR-6	105	165+75.00	RT		168+62.50	RT	237.5			1	1										4
GR-7	110-111	190+75.82	RT		195+63.32	RT	387.5		50.0	1	1										6
GR-8	110-111	193+56.71	LT		197+19.21	LT	262.5		50.0	1	1										5
GR-9	114-116	216+25.00	RT		224+10.50	RT	437.5	300		1	1										9
GR-10	115-116	218+31.33	LT		223+93.83	LT	550				1		1								7
GR-11	116-117	226+83.435	LT		228+20.935	LT	75			1		1									3
GR-12	117-124	903+65.09	RT		235+64.05	RT	637.5	687.5			1										15
GR-13	117-118	913+72.32	RT		237+75.00	LT	412.5	150	25	1	1					137.5					9
GR-14	120-121	243+50.00	RT		250+87.50	RT	662.5			2											10
GR-15		NOT USED																			
GR-16	117,124	227+89.43	RT		906+51.15	LT	675			1											9
GR-17	95	113+35.00	RT		118+90.50	RT	262.5		50							175					6
GR-18	101	145+15.43	RT		600+94.79	LT			150	1	1										4
TOTALS CARRIED TO GENERAL SUMMARY							5775	2250	325	14	12	1	1			312.5		100	350		124

PAVEMENT AND GUARDRAIL SUBSUMMARY

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 79 TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 9/5/2023 TIME: 10:44:00 PM USER: rnunna
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GS003.dgn

SHEET NO.	STATION TO STATION			203 EXCAVATION	203 EMBANKMENT
				CY	CY
	SR 63				
147	107+00.00	TO	108+00.00	56	0
148	108+50.00		109+50.00	108	0
149	110+00.00		111+00.00	128	0
150	111+50.00		112+50.00	156	5
151	113+00.00		114+00.00	172	11
152	114+50.00		115+50.00	135	25
153	116+00.00		117+00.00	122	39
154	117+50.00		118+50.00	142	147
155	119+00.00		120+00.00	127	218
156	120+50.00		121+50.00	308	155
157	122+00.00		123+00.00	221	224
158	123+50.00		124+50.00	193	233
159	125+00.00		126+00.00	198	190
160	126+50.00		127+50.00	249	66
161	128+00.00		129+00.00	368	20
162	129+50.00		130+50.00	355	45
163	131+00.00		132+00.00	371	34
164	132+50.00		133+50.00	862	24
165	134+00.00		135+00.00	1049	14
166	135+50.00		136+50.00	765	10
167	137+00.00		138+00.00	1237	19
168	138+50.00		139+00.00	2186	0
169	139+50.00		140+50.00	2873	1
170	141+00.00		142+00.00	761	34
171	142+50.00		143+50.00	337	61
172	144+00.00		145+00.00	514	40
173	145+50.00		146+50.00	1588	1
174	147+00.00		148+00.00	3349	0
175	148+50.00		149+50.00	3604	0
176	150+00.00		151+00.00	4362	0
177	151+50.00		152+50.00	2840	4
178	153+00.00		154+00.00	1380	165
179	154+50.00		155+50.00	681	385
180	156+00.00		157+00.00	877	72
181	157+50.00		158+50.00	1974	1
182	159+00.00		160+00.00	2620	0
183	160+50.00		161+00.00	1630	0
184	161+50.00		162+00.00	965	0
185	162+50.00		163+00.00	624	0
186	163+50.00		164+00.00	1432	0
187	164+50.00		165+00.00	3259	0
188	165+50.00		166+00.00	3142	0
189	166+50.00		167+00.00	1312	15
190	167+50.00		168+50.00	209	1215
191	169+00.00		170+00.00	1597	345
192	170+50.00		171+50.00	5271	0
193	172+00.00		173+00.00	4761	0
194	173+50.00		174+50.00	1321	39
195	175+00.00		176+00.00	53	587
196	176+50.00		177+50.00	21	720
197	178+00.00		179+00.00	184	680
198	179+50.00		180+50.00	407	350
199	181+00.00		182+00.00	275	107
200	182+50.00		183+50.00	244	215
201	184+00.00		185+00.00	303	220
202	185+50.00		186+50.00	407	126
203	187+00.00		188+00.00	353	147
204	188+50.00		189+50.00	265	431
205	190+00.00		191+00.00	369	511
TOTALS - STA. 107+00.00 TO STA. 191+00, SR 63				65672	7951

SHEET NO.	STATION TO STATION			203 EXCAVATION	203 EMBANKMENT
				CY	CY
206	191+50.00	TO	192+50.00	526	405
207	193+00.00		194+00.00	652	395
208	194+50.00		195+50.00	435	927
209	196+00.00		197+00.00	313	284
210	197+50.00		198+50.00	336	383
211	199+00.00		200+00.00	195	611
212	200+50.00		201+50.00	266	449
213	202+00.00		203+00.00	345	358
214	203+50.00		204+50.00	347	247
215	205+00.00		206+00.00	368	246
216	206+50.00		207+50.00	184	637
217	208+00.00		209+00.00	301	623
218	209+50.00		210+50.00	294	779
219	211+00.00		212+00.00	415	601
220	212+50.00		213+50.00	401	633
221	214+00.00		215+00.00	488	469
222	215+50.00		216+50.00	753	151
223	217+00.00		218+00.00	384	838
224	218+50.00		219+50.00	231	2459
225	220+00.00		220+50.00	132	2921
226	221+00.00		221+50.00	114	3811
227	222+00.00		222+50.00	138	3690
228	223+00.00		223+50.00	171	2561
229	224+00.00		224+50.00	186	1272
230	225+00.00		225+50.00	213	363
231	226+00.00		226+50.00	169	985
232	227+00.00		227+50.00	161	1367
233	228+00.00		228+50.00	178	1204
234	229+00.00		230+00.00	332	1011
235	230+50.00		231+50.00	477	1279
236	232+00.00		233+00.00	288	865
237	233+50.00		234+00.00	294	972
238	234+50.00		235+50.00	408	2149
239	236+00.00		237+00.00	222	567
240	237+50.00		238+50.00	140	168
241	239+00.00		240+00.00	131	172
242	240+50.00		241+50.00	196	43
243	242+00.00		243+00.00	177	48
244	243+50.00		244+50.00	176	154
245	245+00.00		245+50.00	81	193
246	246+00.00		246+50.00	49	604
247	247+00.00		247+50.00	43	775
248	248+00.00		248+50.00	41	265
249	249+00.00		249+50.00	48	127
250	250+00.00		250+50.00	51	79
251	251+00.00		251+03.35	28	45
251A	251+50.00		252+00.00	22	26
251B	252+50.00		253+00.00	38	16
251C	253+50.00		254+00.00	25	2
251D	254+30.00			23	0
TOTALS - STA. 191+50.00 TO STA. 251+03.35, SR 63				11986	39229

SHEET NO.	STATION TO STATION			203 EXCAVATION	203 EMBANKMENT
				CY	CY
	SR 741				
252	903+60.00	TO	903+65.11	3	0
253	903+75.00		904+00.00	16	1
254	904+25.00		904+50.00	20	41
255	904+75.00		905+00.00	20	177
256	905+25.00		905+50.00	21	211
257	905+75.00		906+00.00	20	563
258	906+25.00		906+50.00	24	868
259	906+75.00		907+00.00	38	800
260	907+25.00		907+50.00	42	778
261	907+75.00		908+00.00	48	732
262	908+25.00		908+50.00	47	622
263	908+75.00		909+00.00	99	485
264	909+25.00		909+50.00	95	357
265	909+75.00		910+00.00	95	387
266	910+25.00		910+75.00	159	511
267	911+00.00		911+50.00	143	529
268	911+75.00		912+25.00	181	1335
269	912+50.00		913+00.00	314	15
270	913+25.00		913+75.00	224	20
271	914+00.00		914+50.00	252	1
272	914+75.00		915+25.00	228	0
273	915+50.00		916+00.00	229	0
274	916+25.00		916+75.00	215	5
275	917+00.00		917+50.00	156	19
276	917+75.00		918+25.00	137	31
277	918+50.00		919+00.00	121	40
278	919+25.00		919+75.00	112	50
279	920+00.00		920+50.00	129	38
280	920+75.00		921+25.00	115	37
281	921+50.00		922+00.00	82	52
282	922+25.00		922+75.00	82	48
283	923+00.00		923+50.00	49	53
284	923+75.00		924+25.00	41	19
285	924+50.00		925+00.00	52	13
286	925+25.00		925+75.00	33	3
287	926+00.00		926+50.00	82	0
288	926+75.00		927+25.00	36	2
289	927+50.00		928+00.00	0	0
290	928+00.06		928+05.00	0	0
TOTALS - STA. 903+60.00 TO STA. 928+05.00, SR 741				3760	8843
TOTALS - STA. 107+00.00 TO STA. 191+00.00, SR 63				65672	7951
TOTALS - STA. 191+50.00 TO STA. 251+03.35, SR 63				11986	39229
TOTALS CARRIED TO GENERAL SUMMARY				**81418**	**56023**

EARTHWORK SUBSUMMARY

DESIGN AGENCY
JACOBS

DESIGNER MS
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 80 TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:54:21 PM USER: Tahir.Sondo@jacobs.com
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REF NO.	SHEET NO.	STATION TO STATION			301 ASPHALT CONCRETE BASE, PG64-22, (449), (DRIVEWAYS), 5" CY		304 AGGREGATE BASE, 6" CY		407 TACK COAT, 0.06 GAL/SY GAL		441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22, 1.25" CY	
			TO									
		SR 63										
DR-1	95, 311	STA. 119+60.89, RT					23					
DR-1A	96, 313A	STA. 121+63.29, RT					9					
DR-2	99, 311	STA. 135+58.82, LT			19				9		5	
DR-3	103, 311	STA. 158+27.49, LT			18				8		5	
DR-3A	106, 313A	STA. 171+71.08, LT					27					
DR-4	110, 312	STA. 190+16.41, LT			12				5		3	
DR-5	110, 312	STA. 192+94.06, LT			11				5		3	
DR-6	111, 312	STA. 198+71.54, LT			23				10		6	
DR-7	112, 313	STA. 200+58.00, LT			8				4		2	
		SR 741										
DR-8	126, 313	923+81.82, RT			9				4		3	
DR-9	127, 313	926+18.08, RT			12				5		3	
TOTALS CARRIED TO GENERAL SUMMARY					112		59		50		30	

DRIVE SUBSUMMARY

ITEM 202 - PAVEMENT REMOVED

SR 63 AND SR 741

COMPUTER GENERATED AREA:

PAVEMENT REMOVAL AREA = 699,670 SF = 77,742 SY (INCLUDES PAVED EXISTING DRIVES)

PROJECT TOTAL = 77,742 SY

EXISTING PAVEMENT AVERAGE THICKNESS FROM BORINGS = ± 11 INCHES (FOR INFORMATION ONLY)

B-006-0-21	12 INCHES
B-008-0-21	10 INCHES
B-010-0-21	10 INCHES
B-012-0-21	10 INCHES
B-018-0-21	10 INCHES
B-021-0-21	12 INCHES
B-025-0-21	12 INCHES

TOTAL CARRIED TO GENERAL SUMMARY

PAVEMENT QUANTITY

REF NO.	SHEET NO.	STATION TO STATION				659 SEEDING AND MULCHING SY
92-117		127+86.85 LT	SR 63	TO 229+77.15 LT	SR 63	43447.44
92-117		108+77.45 RT	SR 63	229+77.15 RT	SR 63	55455.48
117-118		230+14.15 LT	SR 63	237+24.97 LT	SR 63	2939.67
117-122		230+14.15 RT	SR 63	254+30.05 RT	SR 63	12045.47
124. 117		906+51.10 LT	SR 741	911+15.96 LT	SR 741	4771.98
117, 123, 124		903+64.90 RT	SR 741	911+15.96 RT	SR 741	6077.25
125 -127		913+53.34 RT	SR 741	927+15.69 RT	SR 741	4871.93
83		DEDUCT DITCH EROSION PROTECTION				-7272.00
83		DEDUCT SLOPE EROSION PROTECTION				-2216.00
TOTALS CARRIED TO GENERAL SUMMARY						120122

SEEDING SUBSUMMARY

REF NO.	SHEET NO.	STATION TO STATION			601 ROCK CHANNEL PROTECTION, TYPE B WITH FILTER CY	601 ROCK CHANNEL PROTECTION, TYPE C WITH FILTER CY	601 RIPRAP, TYPE D SY	602 CONCRETE MASONRY CY	611 CONDUIT, BORED OR JACKED, 24", 748.06 FT	611 CONDUIT, BORED OR JACKED, 30", 748.06 FT	611 54" CONDUIT, TYPE A, 707.02(0.138) (ALUMINIZED) FT	611 78" CONDUIT, TYPE A, 707.02(0.168) (ALUMINIZED) FT
			TO									
D-33	348	STA. 154+14.10				2	17	1.2		125		
D-35	349	STA. 167+22.46				2	14	0.5	158			
D-45	355	STA. 220+88.87			24							20
D-47	356	STA. 234+38.55			11		15	2.7			48	
TOTALS CARRIED TO GENERAL SUMMARY					35	4	46	5	158	125	48	20

CULVERT SUBSUMMARY

SEEDING, PAVEMENT REMOVAL, DRIVE AND CULVERT SUBSUMMARY

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:54:46 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GS005.dgn

DESIGN AGENCY
JACOBS

DESIGNER TES
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 81 TOTAL 436

FENCE AND WATERLINE SUBSUMMARY

REF NO.	SHEET NO.	STATION TO STATION					601 ROCK CHANNEL PROTECTION, TYPE B WITH FILTER		607 FENCE, TYPE 47	607 GATE REBUILT, AS PER PLAN	607 FENCE, MISC.;SECURITY FENCE		625 GROUND ROD							FOR INFORMATION ONLY: LINE POST ENCASED IN CONCRETE	END POST ASSEMBLY (E.P.A.)	CORNER POST ASSEMBLY (C.P.A.)	INTERMEDIATE ANCHOR POST ASSEMBLY (I.A.P.)	DEFLECTION POINT (D.P.)	FENCE CROSSING, TYPE 2	FENCE CROSSING, TYPE 3
				TO			CY		FT	EACH	FT		EACH							EACH	EACH	EACH	EACH	EACH	EACH	EACH
		SR 63			**SR 63**																					
F-1	94-95	113+55.06	RT		119+46.14	RT				1	592									57	1	2		1		
F-2	95-97	119+66.14	RT		127+13.49	RT				1	717									69	2	2				
F-3	99-100	137+55.33	LT		141+97.62	LT					443		1							44		2				
F-4	99-100	135+80.77	RT		140+34.72	RT			454													2				
F-5	100-101	144+29.22	RT		146+08.11	RT			179												1	1				
F-6	101-106	147+39.34	RT		175+00.00	RT	8		2761				2								2		4		1	1
F-7	105-106	167+40.26	LT		171+59.22	LT			419													2				
F-8	106-107	172+00.00	LT		175+17.40	LT			318												1	1				
F-9	108-111	182+57.84	RT		197+02.76	RT	8		1445				7								2		2		1	
F-10	116-117	223+75.00	RT		229+29.65	RT			555				1								1	1				
TOTALS FOR INFORMATION ONLY																				170	10	13	6	1	2	1
TOTALS CARRIED TO GENERAL SUMMARY							16		6131	2	1752		11													

REF NO.	SHEET NO.	STATION TO STATION				SPECIAL 16" WATER MAIN DIP AND FITTINGS (WARREN COUNTY)	SPECIAL 4" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS (WARREN COUNTY)	SPECIAL 10" STEEL PIPE ENCASEMENT, BORED OR JACKED (WARREN COUNTY)	SPECIAL 24" STEEL PIPE ENCASEMENT, BORED OR JACKED (WARREN COUNTY)	SPECIAL 4" GATE VALVE WITH VALVE BOX (WARREN COUNTY)	SPECIAL 16" X 16" TAPPING SLEEVE, VALVE AND VALVE BOX (WARREN COUNTY)	SPECIAL 2" AIR RELEASE VALVE WITH VALVE BOX (WARREN COUNTY)	SPECIAL CUT AND PLUG EXISTING 16 WATER LINE (WARREN COUNTY)	SPECIAL , MISC.: LARGE DOMESTIC WATER PIT (WARREN COUNTY)	SPECIAL , MISC.: CONCRETE ENCASEMENT (WARREN COUNTY)
						FT	FT	FT	FT	EACH	EACH	EACH	EACH	LS	FT
W-1	111	0+00.00	TO	1+30.00				130							
W-2	111	0+00.00	TO	35+00.00			3500			2		2			
W-3	112	5+95.00	TO	6+05.00											10
W-4	113	12+45.00	TO	12+55.00											10
W-5	115	24+60.00	TO	25+15.00											55
W-6	117	32+75.00	TO	34+35.00				160							
W-7	117	34+39.00	TO											1	
W-8	117	0+00.00	TO	3+06.08		307					2		2		
W-9	117	1+29.51	TO	2+67.45					138						
TOTALS CARRIED TO GENERAL SUMMARY						307	3500	290	138	2	2	2	2	1	75

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:55:09 PM USER: Tahir.Sondo@jacobs.com
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DESIGN AGENCY: JACOBS

DESIGNER: TES

REVIEWER: JAE 08/22/23

PROJECT ID: 112121

SHEET: 81A TOTAL: 436

DRAINAGE SUBSUMMARY

REF NO.	SHEET NO.	STATION TO STATION			601 ROCK CHANNEL PROTECTION, TYPE C WITH FILTER CY	602 CONCRETE MASONRY CY	611 12" CONDUIT, TYPE B FT	611 12" CONDUIT, TYPE C FT	611 12" CONDUIT, TYPE D FT	611 15" CONDUIT, TYPE B FT	611 15" CONDUIT, TYPE C FT	611 15" CONDUIT, TYPE D FT	611 18" CONDUIT, TYPE B FT	611 18" CONDUIT, TYPE C FT	611 18" CONDUIT, TYPE D FT	611 21" CONDUIT, TYPE C FT	611 24" CONDUIT, TYPE B FT	611 24" CONDUIT, TYPE C FT	611 24" CONDUIT, TYPE D FT	611 CATCH BASIN, NO. 3 EACH	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN, NO. 5 EACH	611 CATCH BASIN, NO. 6 EACH	611 CATCH BASIN, NO. 2-2B EACH	611 MANHOLE, NO. 3 EACH
D-1	316	108+25.00 RT SR 63	TO	109+00.00 RT SR 63			75														1					
D-2	316	109+00.00 RT SR 63		109+43.00 RT SR 63			43														1					
D-3	316	109+43.00 RT SR 63		109+43.00 LT SR 63													64									1
D-4	316	109+43.00 LT SR 63		109+41.00 LT SR 63														19		1						
D-5	316	109+41.00 LT SR 63			1.78														23			1				
D-6	317	114+50.00 RT SR 63		113+95.00 RT SR 63			55														1					
D-7	317	113+95.00 RT SR 63		113+25.00 RT SR 63			70														1					
D-8	317	113+25.00 RT SR 63		112+50.00 RT SR 63			75														1					
D-9	317	112+50.00 RT SR 63		111+75.00 RT SR 63						75											1					
D-10	317	111+75.00 RT SR 63		110+75.00 RT SR 63						100											1					
D-11	317	110+75.00 RT SR 63		109+65.00 RT SR 63						110											1					
D-12	317	109+65.00 RT SR 63		109+43.00 RT SR 63									22							1						
D-13	318	117+95.00 RT SR 63		117+15.00 RT SR 63			80														1					
D-14	318	117+15.00 RT SR 63		116+35.00 RT SR 63			80														1					
D-15	318	116+35.00 RT SR 63		115+63.00 RT SR 63			72														1					
D-16	318	115+63.00 RT SR 63		115+64.09 LT SR 63			80														1					
D-17	318	115+64.09 LT SR 63				0.19					4										1					
D-18	319	118+10.00 LT SR 63		117+15.00 LT SR 63			95														1					
D-19	319	117+15.00 LT SR 63		116+65.00 LT SR 63			50														1					
D-20	319	116+65.00 LT SR 63		116+25.00 LT SR 63			40																	1		
D-21	319	116+25.00 LT SR 63		115+64.09 LT SR 63			62																	1		
D-22	320	130+75.00 LT SR 63		129+50.00 LT SR 63			125														1					
D-23	320	129+50.00 LT SR 63		128+00.00 LT SR 63			150														1					
D-24	320	128+00.00 LT SR 63				0.21	28														1					
D-25	320	126+50.00 LT SR 63		128+00.00 LT SR 63			150														1					
D-26	325	135+90.61 LT SR 63		135+18.61 LT SR 63								72														
D-27	322	145+35.00 LT SR 63						16													1					
D-28	321	148+06.60 LT SR 63		603+05.00 LT DRIVE 1			135																		1	
D-29	321	603+05.00 LT DRIVE 1		145+35.00 LT SR 63			137																			1
D-30	321	145+35.00 LT SR 63		145+19.00 LT SR 63		0.27					16															1
D-31	322	603+56.18 RT DRIVE 1		603+05.00 LT DRIVE 1			62													1						
D-32	326	147+10.62 RT SR 63		146+23.63 RT SR 63		0.21		87																	1	
D-33	348	SEE SHEET348																								
D-34	325	158+56.00 LT SR 63		157+92.05 LT SR 63					64																	
D-35	349	SEE SHEET 349																								
D-36	328	171+44.88 LT SR 63		171+96.84 LT SR 63					52																	
D-37	325	181+48.28 LT SR 63		182+16.15 LT SR 63					68																	
D-38	326	189+50.00 LT SR 63		192+50.00 LT SR 63		0.33							300													
D-39	326	192+50.00 LT SR 63		192+50.00 RT SR 63													111					1				
D-40	350-354	SHEETS 350 - 354																								
D-41	323	200+84.95 LT SR 63		199+10.00 LT SR 63										175								1				
D-42	323	199+10.00 LT SR 63		196+10.00 LT SR 63												300						1				
D-43	323	196+10.00 LT SR 63		194+50.70 LT SR 63												160						1				
D-44	327	208+00.00 LT SR 63		205+00.00 LT SR 63											300											
D-45	355	SEE SHEET 355																								
D-46	328	229+00.98 LT SR 63		229+00.94 RT SR 63	2.22	0.46											158					1				
D-47	356	SEE SHEET 357																								
D-48	357-361	SEE SHEETS 357-361																								
D-49	327	922+97.00 RT SR 741		924+25.00 RT SR 741								128														
TOTALS CARRIED TO GENERAL SUMMARY					4	2	1664	103	184	285	20	200	322	175	300	460	333	19	23	3	20	6	2	2	3	

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 82 | TOTAL 436

WAR-63-0.83

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REF NO.	SHEET NO.	STATION TO STATION						601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT SY		670 SLOPE EROSION PROTECTION SY	670 DITCH EROSION PROTECTION SY		836 SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 SY																
E-1	98-99	134+50.00 RT	SR 63	TO	137+00.00 RT	SR 63					305.70																	
E-2	99-101	135+90.62 LT	SR 63		145+17.99 LT	SR 63					773.36																	
E-3	99-100	137+00.00 RT	SR 63		140+16.62 RT	SR 63							263.97															
E-4	102-103	154+20.94 LT	SR 63		157+87.08 LT	SR 63					305.87																	
E-5	102-103	154+27.09 RT	SR 63		159+25.00 RT	SR 63							608.87															
E-6	103	158+56.00 LT	SR 63		159+50.00 LT	SR 63					79.96																	
E-7	103-105	159+25.00 RT	SR 63		167+00.00 RT	SR 63					646.14																	
E-8	105-106	167+49.82 LT	SR 63		170+08.92 LT	SR 63					216.59																	
E-9	105	167+89.44 RT	SR 63		169+80.53 LT	SR 63					159.82																	
E-10	110	193+30.30 LT	SR 63		194+30.89 LT	SR 63					119.40																	
E-11	110-112	194+52.26 RT	SR 63		204+00.00 RT	SR 63					790.55																	
E-12	111	196+12.10 LT	SR 63		197+62.96 LT	SR 63					125.05																	
E-13	111-112	199+12.01 LT	SR 63		200+34.46 LT	SR 63					102.04																	
E-14	112	200+86.97 LT	SR 63		206+20.82 LT	SR 63							495.32															
E-15	113-115	206+96.47 LT	SR 63		217+50.00 LT	SR 63					1162.55																	
E-16	113-114	209+50.00 RT	SR 63		212+54.44 RT	SR 63					262.59																	
E-17	114-115	215+91.17 RT	SR 63		217+50.00 RT	SR 63					132.58																	
E-18	115-116	219+25.00 RT	SR 63		223+50.00 RT	SR 63				1903.98																		
E-19	115	220+00.00 RT	SR 63		221+32.51 RT	SR 63					112.45																	
E-20	116-117	226+85.68 LT	SR 63		228+99.00 LT	SR 63		178.55																				
E-21	117-118, 125-126	919+50.00 RT	SR 741		233+00.00 LT	SR 63					1039.78																	
E-22	118	233+00.00 LT	SR 63		234+35.22 LT	SR 63							114.38															
E-23	118	234+44.43 LT	SR 63		236+00.00 LT	SR 63							132.59															
E-24	118	236+00.00 LT	SR 63		237+20.00 LT	SR 63					146.82																	
E-25	118	233+50.00 RT	SR 63		234+32.47 RT	SR 63		70.65																				
E-26	118	233+75.00 RT	SR 63		234+50.00 RT	SR 63				311.59																		
E-27	118	234+41.71 RT	SR 63		236+00.00 RT	SR 63							133.83															
E-28	118-119	236+00.00 RT	SR 63		242+00.00 RT	SR 63					500.58																	
E-29	124	906+00.00 RT	SR 741		910+00.00 RT	SR 741							354.22															
E-30	126	919+50.00 RT	SR 741		923+60.64 RT	SR 741					289.43																	
TOTALS CARRIED TO GENERAL SUMMARY								250		2216	7272		2104															

EROSION CONTROL SUBSUMMARY

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 83 | TOTAL 436

WAR-63-0.83

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UNDERDRAIN SUBSUMMARY

REF NO.	SHEET NO.	STATION TO STATION					601 TIED CONRETE BLOCK MAT, TYPE I		605 6" UNCLASSIFIED PIPE UNDERDRAINS	605 6" BASE PIPE UNDERDRAINS	605 6" SHALLOW PIPE UNDERDRAINS		611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	611 PRECAST REINFORCED CONCRETE OUTLET			UNCLASSIFIED START STATION	UNCLASSIFIED START ELEVATION	UNCLASSIFIED END STATION	UNCLASSIFIED END ELEVATION		BEND AND BRANCHES FOR INFORMATION ONLY					
																						6" END CAP	6" 45°	6" 90°	6" 45° WYE	6" x 6" x 6" TEE	6" x 6" x 6" x 6" CROSS
							SY		FT	FT	FT		FT	EACH								EACH	EACH	EACH	EACH	EACH	EACH
UD-1	93	107+21.32	LT SR 63	TO	109+43.00	LT SR 63					222											1					
UD-2	93	107+16.72	RT SR 63		108+25.00	RT SR 63					108											1					
UD-3	93-95	109+43.00	LT SR 63		115+64.09	LT SR 63					621																
UD-4	93-95	109+65.00	RT SR 63		115+49.84	RT SR 63					585											1					
UD-5	95	116+35.00	RT SR 63		118+00.00	RT SR 63					165											1		1			
UD-6	96-97	120+25.00	LT SR 63		126+35.00	LT SR 63	2		610				95	1			120+25.00	668.18	126+35.00	668.91		1		1		4	
UD-7	96-97	120+25.00	LT SR 63		127+95.00	LT SR 63			770								120+25.00	668.17	127+95.00	669.86							
UD-8	96-97	120+25.00	LT SR 63		127+95.00	LT SR 63			770								120+25.00	668.13	127+95.00	670.10							
UD-9	96-97	120+25.00	RT SR 63		127+95.00	RT SR 63			770								120+25.00	668.03	127+95.00	670.10							
UD-10	96-97	120+25.00	RT SR 63		127+95.00	RT SR 63			770								120+25.00	668.02	127+95.00	669.91							
UD-11	97-98	128+00.00	LT SR 63		132+25.00	LT SR 63				425												1					
UD-12	97-98	128+00.00	LT SR 63		132+25.00	LT SR 63				425												1					
UD-13	97-98	128+00.00	RT SR 63		132+25.00	RT SR 63					425.00		75									1		1		3	
UD-14	97-98	128+00.00	RT SR 63		132+25.00	RT SR 63				425												1					
UD-15	98	130+75.00	LT SR 63		132+25.00	LT SR 63					150.00											1					
UD-16	98-99	132+30.00	LT SR 63		135+95.00	LT SR 63					365.00											1	1	1			
UD-17	98-99	132+30.00	LT SR 63		135+95.00	LT SR 63				365												1					
UD-18	98-99	132+30.00	LT SR 63		135+95.00	LT SR 63				365												1					
UD-19	98-99	132+30.00	RT SR 63		135+95.00	RT SR 63	2				365		92	1								1		1	1	3	
UD-20	98-99	132+30.00	RT SR 63		135+95.00	RT SR 63				365												1					
UD-21	99-100	136+00.00	LT SR 63		140+95.00	LT SR 63					495											1	1	1			
UD-22	99-100	136+00.00	LT SR 63		140+95.00	LT SR 63				495												1					
UD-23	99-101	136+00.00	LT SR 63		140+95.00	LT SR 63				495												1					
UD-23A	99-101	136+00.00	RT SR 63		145+95.00	RT SR 63	2				995		93	1								1		1	1	3	
UD-24	99-101	136+00.00	RT SR 63		145+95.00	RT SR 63				995												1					
UD-25	100-101	141+00.00	LT SR 63		145+22.17	LT SR 63					422											1					
UD-26	100-101	141+00.00	LT SR 63		146+66.64	LT SR 63			100	567							141+00.00	690.14	142+00.00	691.67		1					
UD-27	100-101	141+00.00	LT SR 63		146+66.64	LT SR 63	2		100	567			42	1			141+00.00	690.61	142+00.00	692.16		1		1		2	
UD-28	101-102	148+06.95	LT SR 63		151+03.90	LT SR 63					297												2	1			
UD-29	101-102	146+71.64	LT SR 63		151+03.90	LT SR 63				432														1		1	
UD-30	101-102	146+71.64	LT SR 63		151+03.90	LT SR 63				432																	
UD-31	101-102	146+00.00	RT SR 63		151+03.90	RT SR 63					504												1	1			
UD-32	101-102	146+00.00	RT SR 63		151+03.90	RT SR 63	2			504			32	1										1	1		
UD-28A	102	151+03.90	LT SR 63		152+24.62	LT SR 63					121																
UD-29A	102	151+03.90	LT SR 63		152+24.62	LT SR 63				121																	
UD-30A	102	151+03.90	LT SR 63		152+24.62	LT SR 63				121																	
UD-31A	102	151+03.90	RT SR 63		152+24.62	RT SR 63					121																
UD-32A	102	151+03.90	RT SR 63		152+24.62	RT SR 63				121																	
UD-33	102	152+24.62	LT SR 63		154+00.00	LT SR 63			175								152+24.62	711.36	154+00.00	712.79		1	1			1	
UD-34	102	152+24.62	LT SR 63		154+00.00	LT SR 63			175								152+24.62	710.72	154+00.00	712.14		1					
UD-35	102	152+24.62	LT SR 63		154+00.00	LT SR 63			175								152+24.62	711.20	154+00.00	712.56		1					
UD-36	102	152+24.62	RT SR 63		154+00.00	RT SR 63	2		175				102	1			152+24.62	711.20	154+00.00	712.56		1		1	1		4
UD-37	102	152+24.62	RT SR 63		154+00.00	RT SR 63			175								152+24.62	711.84	154+00.00	713.20		1					
UD-38	102-103	154+26.27	LT SR 63		158+65.00	LT SR 63					439											1	1	1			
UD-39	102-103	154+26.27	LT SR 63		158+65.00	LT SR 63				439												1					
UD-40	102-103	154+26.27	LT SR 63		158+65.00	LT SR 63	2			439			46	1								1		1	1	1	
UD-41	102-103	154+50.00	RT SR 63		158+65.00	RT SR 63					415											1	1	1			
UD-42	102-103	154+50.00	RT SR 63		158+65.00	RT SR 63	2			415			20	1								1		1	1		
UD-43	103-105	158+70.00	LT SR 63		166+83.87	LT SR 63					814																
UD-44	103-105	158+70.00	LT SR 63		166+87.48	LT SR 63				817																	
UD-45	103-105	158+70.00	LT SR 63		166+26.31	LT SR 63				756																	
UD-46	103-105	158+70.00	RT SR 63		167+36.40	RT SR 63					866																
UD-47	103-105	158+70.00	RT SR 63		167+40.41	RT SR 63				870																	
UD-48	105-106	167+24.26	LT SR 63		174+03.02	LT SR 63					679												1	2	1		
UD-49	105-106	167+24.26	LT SR 63		174+03.02	LT SR 63	2			679			28	1													
UD-50	105-106	168+00.00	RT SR 63		174+03.02	RT SR 63					603																
UD-51	105-106	168+00.00	RT SR 63		174+03.02	RT SR 63	2			603			93	1										2	2	3	
UD-52	106-108	174+03.16	LT SR 63		181+25.00	LT SR 63			296	426							178+29.20	773.47	181+25.00	772.20		1					
TOTALS CARRIED TO SHEET 85A							20		5063	12664	9777		718	10								34	9	21	9	21	4

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
CTS 08/22/23

PROJECT ID
112121

SHEET 84 | TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:56:29 PM USER: Tahir.Sondo@jacobs.com
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REF NO.	SHEET NO.	STATION TO STATION					601 TIED CONRETE BLOCK MAT, TYPE I SY		605 6" UNCLASSIFIED PIPE UNDERDRAINS FT	605 6" BASE PIPE UNDERDRAINS FT	605 6" SHALLOW PIPE UNDERDRAINS FT		611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS FT	611 PRECAST REINFORCED CONCRETE OUTLET EACH			UNCLASSIFIED START STATION	UNCLASSIFIED START ELEVATION	UNCLASSIFIED END STATION	UNCLASSIFIED END ELEVATION		BEND AND BRANCHES FOR INFORMATION ONLY 6" END CAP EACH	6" 45° EACH	6" 90° EACH	6" 45° WYE EACH	6" x 6" x 6" TEE EACH	6" x 6" x 6" x 6" CROSS EACH
UD-48A	106-108	174+03.02	LT SR 63	TO	181+25.00	LT SR 63			296		426						178+29.20	773.23	181+25.00	772.83			1	2	1		
UD-49A	106-108	174+03.02	LT SR 63		181+25.00	LT SR 63	2		296	426			28	1			178+29.20	772.59	181+25.00	772.05								
UD-50A	106-108	174+03.02	RT SR 63		181+25.00	RT SR 63			296		426						178+29.20	772.83	181+25.00	772.07								
UD-51A	106-108	174+03.02	RT SR 63		181+25.00	RT SR 63	2		296	426			93	1			178+29.20	772.83	181+25.00	772.18				2	2	3		
UD-53	108-110	181+29.77	LT SR 63		191+25.64	LT SR 63	2				996		91	1								1		1	1		4
UD-54	108-110	181+29.77	LT SR 63		191+25.64	LT SR 63				996												1					
UD-55	108-110	181+29.77	LT SR 63		191+25.64	LT SR 63				996												1					
UD-56	108-110	181+29.77	RT SR 63		191+25.64	RT SR 63					996											1	1			1	
UD-57	108-110	181+29.77	RT SR 63		191+25.64	RT SR 63				996												1					
UD-58	110	191+25.64	LT SR 63		192+45.00	LT SR 63					119											1					
UD-59	110	191+25.64	LT SR 63		192+45.00	LT SR 63				119												1					
UD-60	110	191+25.64	LT SR 63		192+45.00	LT SR 63				119												1					
UD-61	110	191+25.64	RT SR 63		192+45.00	RT SR 63					119											1					
UD-62	110	191+25.64	RT SR 63		192+45.00	RT SR 63				119												1					
UD-63	110	192+57.76	LT SR 63		194+10.00	LT SR 63					152											1	1	1			
UD-64	110	192+57.76	LT SR 63		194+10.00	LT SR 63				152												1					
UD-65	110	192+57.76	LT SR 63		194+10.00	LT SR 63				152			38									1		2	1	1	
UD-66	110	192+57.76	RT SR 63		194+10.00	RT SR 63					152											1		1	1		
UD-67	110	192+57.76	RT SR 63		194+10.00	RT SR 63	2			152			21	1								1	1	1			
UD-68	110-112	194+75.00	LT SR 63		200+79.95	LT SR 63					605											1	1	1			
UD-69	110-112	194+75.00	LT SR 63		200+79.95	LT SR 63				605																	
UD-70	110-112	194+75.00	LT SR 63		200+79.95	LT SR 63	2			605			30	1								1		1	1	1	
UD-71	110-112	194+75.00	RT SR 63		202+45.00	RT SR 63	2			770			23	1								1		1	1		
UD-72	110-112	194+75.00	RT SR 63		202+45.00	RT SR 63					770											1	1	1			
UD-73	112-113	200+84.95	LT SR 63		208+95.00	LT SR 63					810											1	1	1			
UD-74	112-113	200+84.95	LT SR 63		208+95.00	LT SR 63				810												1					
UD-75	112-113	200+84.95	LT SR 63		208+95.00	LT SR 63				810			34	1								1		1	1	1	
UD-76	112-113	205+50.00	RT SR 63		208+95.00	RT SR 63					345											1	1	1			
UD-77	112-113	205+50.00	RT SR 63		208+95.00	RT SR 63	2			345			22	1								1		1	1		
UD-78	113-115	209+00.00	LT SR 63		218+05.00	LT SR 63	2				905		92	1								1		1	1	3	
UD-79	113-115	209+00.00	LT SR 63		218+05.00	LT SR 63				905												1					
UD-80	113-115	209+00.00	LT SR 63		218+05.00	LT SR 63				905												1					
UD-81	113-115	209+00.00	RT SR 63		218+05.00	RT SR 63					905											1	1	1			
UD-82	113-115	209+00.00	RT SR 63		218+05.00	RT SR 63				905												1					
UD-83	115-116	218+10.00	LT SR 63		224+66.20	LT SR 63					656												2	2			
UD-84	115-116	218+10.00	LT SR 63		224+66.20	LT SR 63				656														2	1		
UD-85	115-116	218+10.00	LT SR 63		224+66.20	LT SR 63	2			656														1	1	2	
UD-86	115-116	218+10.00	RT SR 63		224+66.20	RT SR 63	2				656		100	1									3	2	1	4	
UD-87	115-116	218+10.00	RT SR 63		224+66.20	RT SR 63				656													2				
UD-88	115-116	218+10.00	RT SR 63		224+66.20	RT SR 63				656													2	2			
UD-83A	116	224+66.20	LT SR 63		228+91.03	LT SR 63					425													2	1		
UD-84A	116	224+66.20	LT SR 63		228+91.03	LT SR 63				425			37											1	1	2	
UD-85A	116	224+66.20	LT SR 63		228+91.03	LT SR 63	2			425			113	1										1	1	2	
UD-86A	116	224+66.20	RT SR 63		228+91.03	RT SR 63	2				425												2				
UD-87A	116	224+66.20	RT SR 63		228+91.03	RT SR 63				425																	
UD-88B	116	224+66.20	RT SR 63		228+91.03	RT SR 63				425																	
UD-88A	117-118	231+09.36	RT SR 63		235+25.00	RT SR 63			75	341							234+50.00	835.33	235+25.00	835.03		1					
UD-89	117-118	231+09.36	RT SR 63		235+25.00	RT SR 63			75	341							234+50.00	835.13	235+25.00	834.83		1					
UD-90	118	235+00.00	LT SR 63		237+25.00	LT SR 63			75		200						234+50.00	836.17	235+25.00	836.37		1	4			1	
UD-91	118	235+00.00	LT SR 63		237+00.00	LT SR 63			75	175							234+50.00	835.52	235+25.00	835.73		1	2				
UD-92	118	235+00.00	LT SR 63		237+23.52	LT SR 63	2		75	199			36	1			234+50.00	835.83	235+25.00	836.11		1			1	1	2
UD-93	118-120	235+25.00	RT SR 63		245+25.50	RT SR 63	2		100	976			59	1			234+50.00	835.69	235+50.00	836.15					1	1	3
UD-94	118-120	235+25.00	RT SR 63		245+25.50	RT SR 63			100		976						234+50.00	835.78	235+50.00	836.26			1			1	
UD-95	118-120	235+25.00	RT SR 63		245+25.50	RT SR 63			100	976							234+50.00	835.13	235+50.00	835.62							
UD-96	118-119	235+25.00	RT SR 63		240+50.00	RT SR 63			100	500							234+50.00	835.33	235+50.00	835.82		1					
TOTALS CARRIED TO SHEET 85A							28		1959	19145	11065		818	13								35	27	33	19	24	9

UNDERDRAIN SUBSUMMARY

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
CTS 08/22/23

PROJECT ID
112121

SHEET 85 | TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:56:54 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121400-Engineering\Drainage\Sheets\112121_DS004.dgn

REF NO.	SHEET NO.	STATION TO STATION			601 TIED CONRETE BLOCK MAT, TYPE I		605 6" UNCLASSIFIED PIPE UNDERDRAINS	605 6" BASE PIPE UNDERDRAINS	605 6" SHALLOW PIPE UNDERDRAINS		611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	611 PRECAST REINFORCED CONCRETE OUTLET													
					SY		FT	FT	FT		FT	EACH													
UD-93A	118-121	245+25.50 RT SR 63		249+00.00 RT SR 63	2		100	275			31	1			248+00.00	852.65	249+00.00	852.25					1	1	3
UD-94A	118-121	245+25.50 RT SR 63		249+00.00 RT SR 63			100		275						248+00.00	853.11	249+00.00	852.71			1			1	
UD-95A	118-121	245+25.50 RT SR 63		249+00.00 RT SR 63			100	275							248+00.00	852.46	249+00.00	852.06							
UD-96A	121-122	249+00.00 RT SR 63		254+30.00 RT SR 63			125		505						248+00.00	852.46	249+25.00	852.63		1	1			1	
UD-97	121-122	249+00.00 RT SR 63		254+30.00 RT SR 63			125	505							248+00.00	853.11	249+25.00	853.47		1		1	1		2
UD-98	123-124	904+25.58 RT SR 741		911+33.53 RT SR 63					726												3	1			
UD-98A	117-118	230+97.36 RT SR 63		235+25.00 RT SR 63				425																	
UD-98B	117-118	230+43.95 RT SR 63		235+25.00 RT SR 63					521																
UD-99	123,124,117	904+25.58 RT SR 741		230+97.36 RT SR 63	2			880			67	1										1	1		
UD-100	124,117	906+55.13 RT SR 741		911+88.00 RT SR 741	2			566			50	1								1		1	1		
UD-101	124,117	906+55.13 RT SR 741		911+88.00 RT SR 741					549											1	1	1			
UD-102	117,125	916+50.00 RT SR 741		234+50.00 LT SR 63					718											1					
UD-103	117,125	918+45.00 RT SR 741		234+50.00 LT SR 63				926												1					
UD-104	117, 125	918+74.80 RT SR 741		234+50.00 LT SR 63				999												1					
UD-105	125-127	918+79.80 RT SR 741		927+15.72 RT SR 741	2			836			47	1								1	2			1	
UD-106	125-127	919+01.41 RT SR 741		927+15.72 RT SR 741			51		814						918+50.00	855.02	919+01.41	855.28		1					
TOTALS THIS SHEET					8		601	5688	4109		195	4								9	8	5	4	4	5
TOTALS CARRIED FROM SHEET 84					20		5063	12664	9777		718	10								34	9	21	9	21	4
TOTALS CARRIED FROM SHEET 85					28		1959	19145	11065		818	13								35	27	33	19	24	9
TOTALS CARRIED TO GENERAL SUMMARY					56		7623	37497	24951		1731	27								78	44	59	32	49	18

UNDERDRAIN SUBSUMMARY

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:57:21 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121400-Engineering\Drainage\Sheets\112121_DS008.dgn

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
CTS 08/22/23

PROJECT ID
112121

SHEET 85A | TOTAL 436

REF. NO.	SHEET NO.	STATION FROM	STATION TO	SIDE	CELL WIDTH	CELL LENGTH	CELL AREA	10" DIKE ELEVATION	203 EXCAVATION, AS PER PLAN (VERTICAL SIDES ONLY)	203 EMBANKMENT	601 TIED CONCRETE BLOCK MAT, TYPE 2	601 BIORETENTION CELL	605 4" UNDERDRAIN, AS PER PLAN	611 4" CONDUIT, TYPE C, 707.33, 707.42 or 707.45	671 EROSION CONTROL MAT, TYPE A		OBSERVATION WELL (INCIDENTAL TO ITEM 605 UNDERDRAIN, AS PER PLAN)					
					FT	FT	ACRE	FT	CU YD	CY YD	SQ YD	CU YD	FT	FT	SQ YD		EACH					
BRC-7	101	BIORETENTION CELL #7																				
		148+31.12		LT				710.49		1.5	16			12								
		148+37.11	148+72.79	LT	4	35.68	0.003		21			22	36		30		1					
		148+78.81		LT				711.47		1.5	16			12								
		148+84.79	149+35.38	LT	4	50.59	0.005		30			32	51		42		1					
		149+41.40		LT				712.47		1.5	16			12								
		149+47.38	150+74.16	LT	4	126.78	0.012		75			80	127		106		1					
			TOTAL CELL AREA				0.020															
			CELL AREA REQ.				0.019															
BRC-2	106	BIORETENTION CELL #2																				
		170+14.91		LT				773.03		1.5	19			12								
		170+20.93	170+39.41	LT	4	18.48	0.002		11			12	18		15		1					
		170+45.53		LT				774.03		1.5	19			12								
		170+51.53	170+73.34	LT	4	21.81	0.002		13			14	22		18		1					
		170+79.34		LT				775.03		1.5	19			12								
		170+85.34	171+11.21	LT	4	25.87	0.002		15			16	26		22		1					
		172+07.65		LT				776.03		1.5	19			12								
		172+13.65	173+33.39	LT	4	119.74	0.011		71			75	120		100		1					
			TOTAL CELL AREA				0.017															
			CELL AREA REQ.				0.017															
BRC-11	100	BIORETENTION CELL #11																				
		140+22.67		RT				689.98		1.5	16			12								
		140+28.71	140+57.54	RT	4	28.83	0.003		17			18	29		24		1					
		140+63.58		RT				690.98		1.5	16			12								
		140+69.54	140+98.46	RT	4	28.92	0.003		17			18	29		24		1					
		141+04.50		RT				691.98		1.5	16			12								
		141+10.46	141+39.38	RT	4	28.92	0.003		17			18	29		24		1					
		141+45.42		RT				692.98		1.5	16			12								
		141+51.38	141+80.29	RT	4	28.92	0.003		17			18	29		24		1					
		141+86.33		RT				693.98		1.5	16			12								
		141+92.29	142+21.18	RT	4	28.91	0.003		17			18	29		24		1					
		142+27.25		RT				694.98		1.5	16			12								
		142+33.18	142+62.23	RT	4	29.05	0.003		17			18	29		24		1					
		142+68.17		RT				695.98		1.5	16			12								
		142+74.10	143+03.01	RT	4	28.91	0.003		17			18	29		24		1					
		143+09.08		RT				696.98		1.5	16			12								
		143+15.02	143+43.93	RT	4	28.91	0.003		17			18	29		24		1					
		143+50.00		RT				697.98		1.5	16			12								
		143+55.95	143+79.63	RT	4	23.68	0.002		14			15	24		20		1					
		143+85.71		RT				698.98		1.5	16			12								
		143+91.66	144+60.59	RT	4	68.93	0.006		41			43	69		57		1					
		144+66.67		RT				699.88		1.5	16			12								
		144+72.61	145+71.84	RT	4	99.23	0.009		59			62	99		83		1					
			TOTAL CELL AREA				0.039															
																	18	TOTAL (FOR INFORMATION ONLY)				
TOTALS CARRIED TO SUB SUMMARY SHEET NO. 88									487	27	299	518	822	216	685							

BIORETENTION CELL SUBSUMMARY

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
CTS 08/22/23

PROJECT ID
112121

SHEET 86 | TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:57:55 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121400-Engineering\Drainage\Sheets\112121_DS005.dgn

REF. NO.	SHEET NO.	STATION FROM	STATION TO	SIDE	CELL WIDTH	CELL LENGTH	CELL AREA	10" DIKE ELEVATION	203 EXCAVATION, AS PER PLAN (VERTICAL SIDES ONLY)	203 EMBANKMENT	601 TIED CONCRETE BLOCK MAT, TYPE 2	601 BIORETENTION CELL	605 4" UNDERDRAIN, AS PER PLAN	611 4" CONDUIT, TYPE C, 707.33, 707.42 or 707.45	671 EROSION CONTROL MAT, TYPE A		OBSERVATION WELL (INCIDENTAL TO ITEM 605 UNDERDRAIN, AS PER PLAN)					
					FT	FT	ACRE	FT	CU YD	CY YD	SQ YD	CU YD	FT	FT	SQ YD		EACH					
		BIORETENTION CELL #11																				
BRC-11	100-101																					
		147+60.00		RT				707.51		1.5	16			12								
		147+65.92	147+87.28	RT	4	21.36	0.002		13			13	21		18		1					
		147+93.33		RT				708.51		1.5	16			12								
		147+99.25	148+20.60	RT	4	21.35	0.002		13			13	21		18		1					
		148+26.67		RT				709.51		1.5	16			12								
		148+32.58	148+53.93	RT	4	21.35	0.002		13			13	21		18		1					
		148+60.00		RT				710.51		1.5	16			12								
		148+65.93	148+87.27	RT	4	21.35	0.002		13			13	21		18		1					
		148+93.33		RT				711.51		1.5	16			12								
		148+99.26	149+20.60	RT	4	21.34	0.002		13			13	21		18		1					
		149+26.67		RT				712.51		1.5	16			12								
		149+32.59	149+53.58	RT	4	20.99	0.002		12			13	21		17		1					
			TOTAL CELL AREA				0.051															
			CELL AREA REQ.				0.048															
BRC-8	105-106	BIORETENTION CELL #8																				
		169+86.54		RT				772.05		1.5	16			12								
		169+92.53	170+08.90	RT	4	16.37	0.002		10			10	16		14		1					
		170+14.91		RT				773.05		1.5	16			12								
		170+20.90	170+39.65	RT	4	18.75	0.002		11			12	19		16		1					
		170+45.53		RT				774.05		1.5	16			12								
		170+51.54	170+73.03	RT	4	21.49	0.002		13			14	21.49		16		1					
		170+78.48		RT				775.05		1.5	16			12								
		170+85.03	171+10.42	RT	4	25.39	0.002		15			16	25.39		18		1					
		171+16.42		RT				776.05		1.5	16			12								
		171+22.42	171+53.43	RT	4	31.01	0.003		18			20	31.01		21		1					
		171+59.43		RT				777.05		1.5	16			12								
		171+65.43	172+05.98	RT	4	40.55	0.004		24			26	40.55		34		1					
		172+11.98		RT				778.05		1.5	16			12								
		172+17.98	172+79.98	RT	4	62.00	0.006		37			39	62		52		1					
			TOTAL CELL AREA				0.020															
			CELL AREA REQ.				0.020															
BRC-6	109	BIORETENTION CELL #6																				
		185+34.02	186+04.00	RT	4	69.98	0.006		41			44	70		58		1					
		186+10.00		RT				769.89		1.5	16			12								
		186+16.00	187+04.00	RT	4	88.00	0.008		52			55	88		73		1					
		187+10.00		RT				768.89		1.5	16			12								
		187+16.00	188+04.00	RT	4	88.00	0.008		52			55	88		73		1					
		188+10.00		RT				767.89		1.5	16			12								
			TOTAL CELL AREA				0.023															
			CELL AREA REQ.				0.022															
TOTALS CARRIED TO SUB SUMMARY SHEET NO.88									349	24	256	371	589	192	481							

BIORETENTION CELL SUBSUMMARY

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
CTS 08/22/23

PROJECT ID
112121

SHEET 87 TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:58:21 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121400-Engineering\Drainage\Sheets\112121_DS006.dgn

REF. NO.	SHEET NO.	STATION FROM	STATION TO	SIDE	CELL WIDTH	CELL LENGTH	CELL AREA	10" DIKE ELEVATION	203 EXCAVATION, AS PER PLAN (VERTICAL SIDES ONLY)	203 EMBANKMENT	601 TIED CONCRETE BLOCK MAT, TYPE 2	601 BIORETENTION CELL	605 4" UNDERDRAIN, AS PER PLAN	611 4" CONDUIT, TYPE C, 707.33, 707.42 or 707.45	671 EROSION CONTROL MAT, TYPE A		OBSERVATION WELL (INCIDENTAL TO ITEM 605 UNDERDRAIN, AS PER PLAN)					
					FT	FT	ACRE	FT	CU YD	CY YD	SQ YD	CU YD	FT	FT	SQ YD		EACH					
BRC-5	114	BIORETENTION CELL #5																				
		212+71.05		RT				806.01		1.5	16			12								
		212+77.05	212+97.95	RT	4	20.90	0.002		12			13	21		17		1					
		213+05.01		RT				807.01		1.5	16			12								
		213+09.95	213+28.18	RT	4	18.23	0.002		11			11	18		15		1					
		213+35.34		RT				808.01		1.5	16			12								
		213+40.18	213+57.67	RT	4	18.23	0.002		11			11	18		15		1					
		213+64.33		RT				809.01		1.5	16			12								
		213+69.67	213+87.17	RT	4	17.49	0.002		10			11	17		15		1					
		213+92.43		RT				810.01		1.5	16			12								
		213+99.17	214+16.66	RT	4	17.50	0.002		10			11	18		15		1					
		214+23.64		RT				811.01		1.5	16			12								
		214+28.66	214+46.15	RT	4	17.49	0.002		10			11	17		15		1					
		214+52.16		RT				812.01		1.5	16			12								
		214+58.15	214+75.64	RT	4	17.49	0.002		10			11	17		15		1					
		214+81.65		RT				813.01		1.5	16			12								
		214+87.64	215+05.10	RT	4	17.46	0.002		10			11	17		15		1					
		215+11.10		RT				814.01		1.5	16			12								
		215+17.10	215+34.63	RT	4	17.46	0.002		10			11	17		15		1					
		215+40.63		RT				815.01		1.5	16			12								
		215+46.63	215+64.17	RT	4	17.53	0.002		10			11	18		15		1					
		215+70.17		RT				816.01		1.5	16			12								
		215+76.17	215+91.17	RT	4	17.54	0.002		10			11	18		15		1					
			TOTAL CELL AREA				0.018															
			CELL AREA REQ.				0.017															
TOTALS THIS SHEET									*117*	*17*	*176*	*124*	*197*	*132*	*164*							
TOTALS CARRIED FROM SHEET NO. 86									*487*	*27*	*299*	*518*	*822*	*216*	*685*							
TOTALS CARRIED FROM SHEET NO. 87									*349*	*24*	*256*	*371*	*589*	*192*	*481*							
TOTALS CARRIED TO GENERAL SUMMARY									***953***	***68***	***731***	***1013***	***1609***	***540***	***1330***							

BIORETENTION CELL SUBSUMMARY

DESIGN AGENCY
JACOBS

DESIGNER
TES

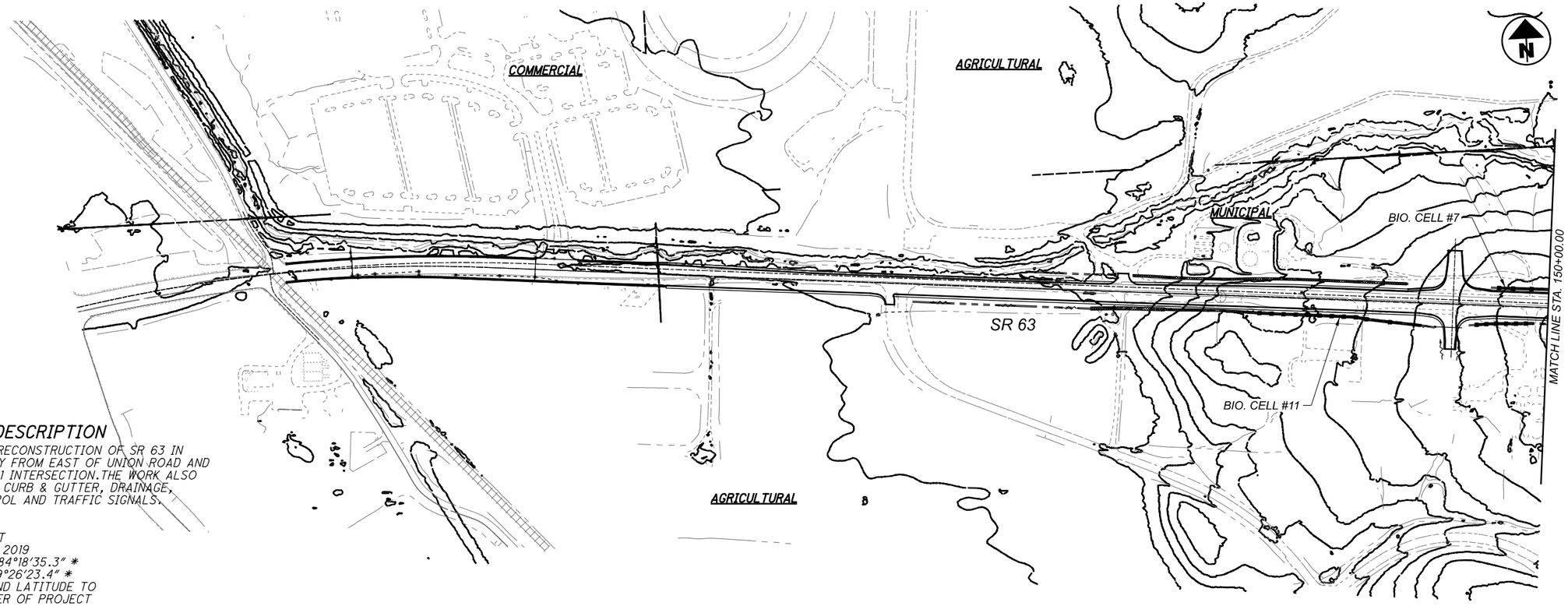
REVIEWER
CTS 08/22/23

PROJECT ID
112121

SHEET 88 TOTAL 436

WAR-63-0.83

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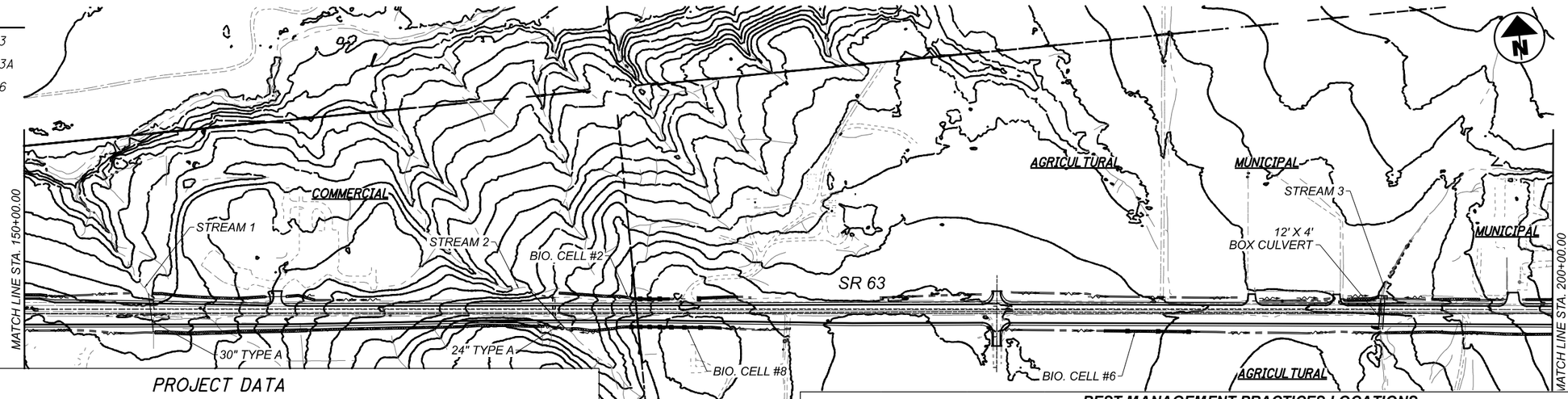
PROJECT DESCRIPTION

WIDENING AND RECONSTRUCTION OF SR 63 IN WARREN COUNTY FROM EAST OF UNION ROAD AND EAST OF SR 741 INTERSECTION. THE WORK ALSO OF INSTALLING CURB & GUTTER, DRAINAGE, TRAFFIC CONTROL AND TRAFFIC SIGNALS.

USGS QUADRANT
MONROE, OHIO 2019
LONGITUDE: W 84°18'35.3" *
LATITUDE: N 39°26'23.4" *
*LONGITUDE AND LATITUDE TO APPROX. CENTER OF PROJECT

LEGEND

- CATCH BASIN, CB-3
- CATCH BASIN, CB-3A
- CATCH BASIN, CB-6
- CURB CUT



PROJECT DATA

Total Area (Right-of-Way)	60.71 Ac	Runoff Coefficient for Pre-Construction Site	0.64
Project Earth Disturbed Area	36.733 Ac	Runoff Coefficient for Post-Construction Site	0.72
Estimated Contractor Earth Disturbed Area	2.69 Ac	Immediate Receiving Water	A: SHAKER CREEK B: NO NAME DITCH
Notice of Intent Earth Disturbed Area	39.42 Ac	Subsequent Receiving Water	A: SHAKER CREEK B: LITTLE MUDDY RIVER
Impervious (Paved) Area for Pre-Construction Site	15.74 Ac	Post Construction BMP: BIORETENTION CELLS WERE PROVIDED TO MEET NPDES POST-CONSTRUCTION REQUIREMENTS. ADDITIONAL OFFSITE CREDITS WERE USED TO MEET TREATMENT REQUIREMENTS.	
Impervious (Paved) Area for Post-Construction Site	29.67 Ac		

BEST MANAGEMENT PRACTICES LOCATIONS

BMP #	BEGIN				END			
	ROUTE	STATION	LATITUDE	LONGITUDE	STATION	LATITUDE	LONGITUDE	EDA TREATMENT (AC)
Bio. Cell #2	SR 63	170+09	39.439337°	-84.300588°	172+55	39.439303°	-84.299717°	0.55
Bio. Cell #5	SR 63	212+65	39.438084°	-84.285606°	215+91	39.438023°	-84.284442°	0.85
Bio. Cell #6	SR 63	185+34	39.438721°	-84.295232°	188+16	39.438668°	-84.294233°	1.06
Bio. Cell #7	SR 63	148+25	39.439851°	-84.308285°	150+74	39.439797°	-84.307407°	0.52
Bio. Cell #8	SR 63	169+81	39.439088°	-84.300714°	172+80	39.439021°	-84.299659°	0.88
Bio. Cell #11	SR 63	140+17	39.439696°	-84.311169°	149+54	39.439527°	-84.309217°	2.09
						TREATMENT PROVIDED		5.94
						TREATMENT REQUIRED*		13.34

* CALCULATED PER L&D VOL. 2, SEC 1115.7

HORIZONTAL SCALE IN FEET
0 100 200 400

PROJECT SITE PLAN - SR 63 AND SR 741
STA. 100+00.00 TO STA. 200+00.00

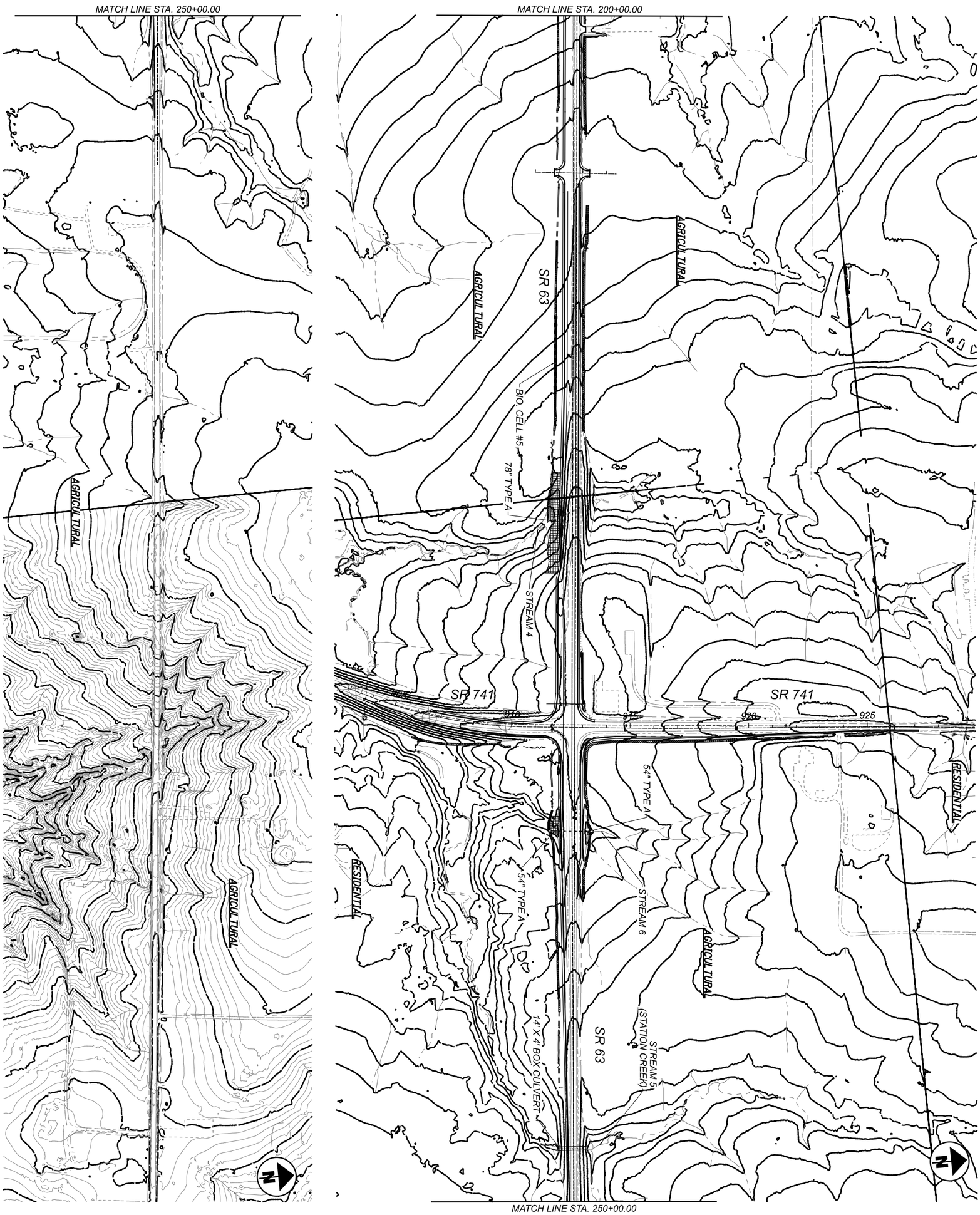
DESIGN AGENCY
JACOBS

DESIGNER TES
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 89 TOTAL 436

WAR-63-0.83

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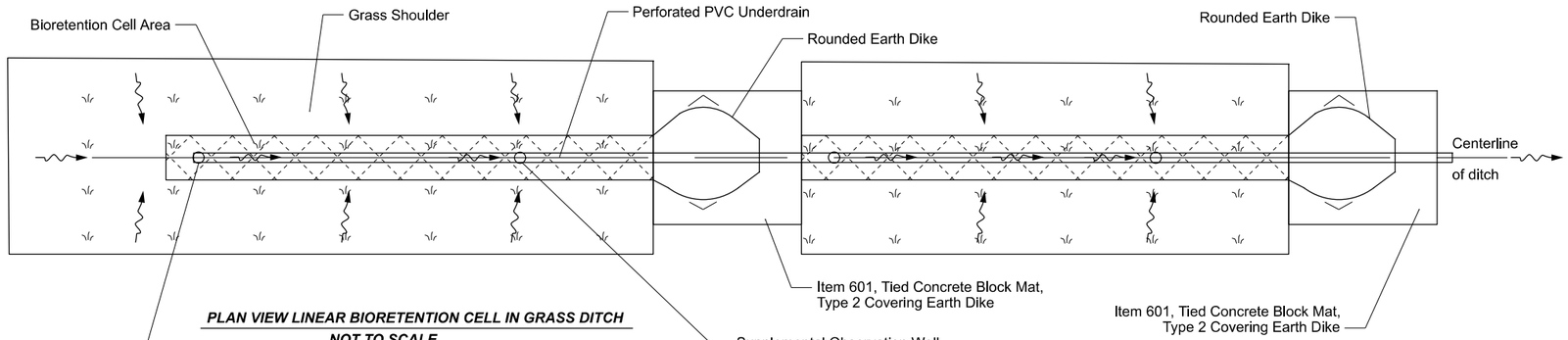
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PROJECT SITE PLAN - SR 63 AND SR 741
STA. 200+00.00 TO STA. 256+27.37

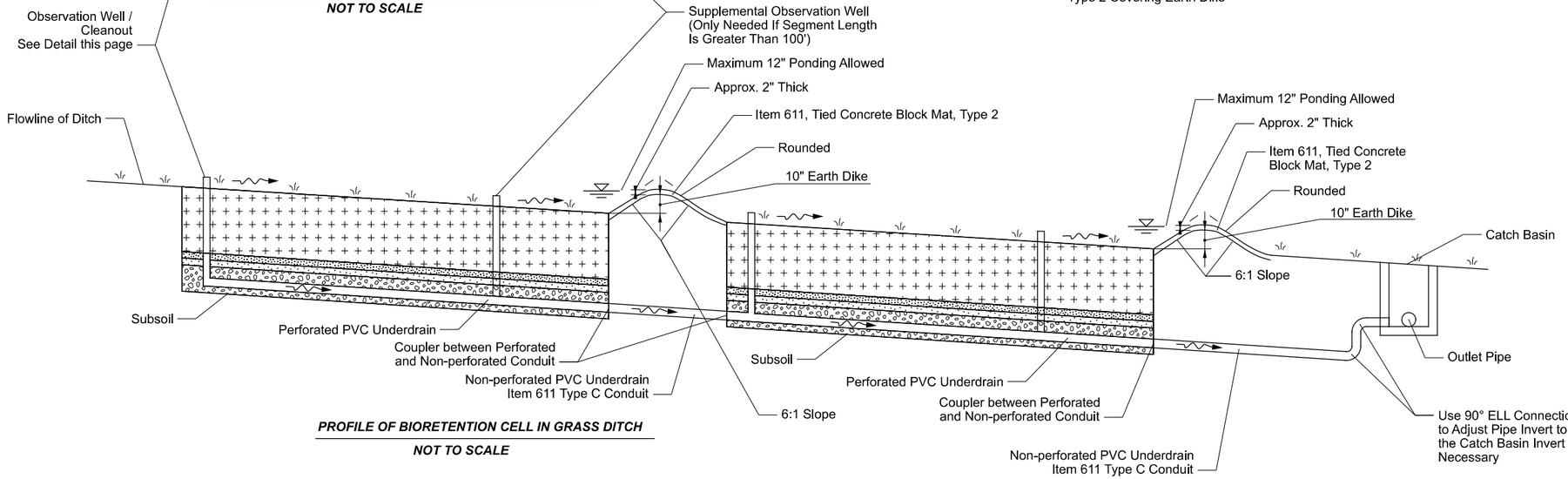
HORIZONTAL SCALE IN FEET
0 200
100 400

DESIGNER TES
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 90 TOTAL 436
DESIGN AGENCY JACOBS



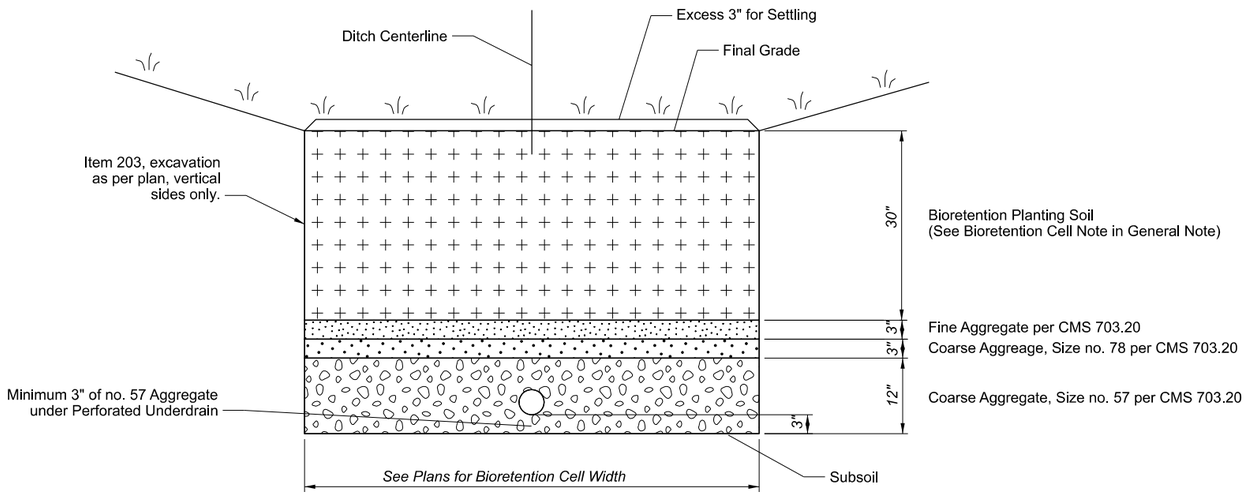
PLAN VIEW LINEAR BIORETENTION CELL IN GRASS DITCH

NOT TO SCALE



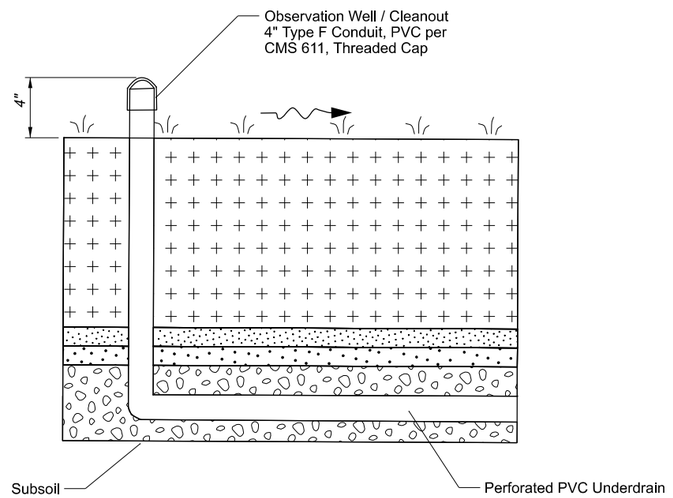
PROFILE OF BIORETENTION CELL IN GRASS DITCH

NOT TO SCALE



SECTION OF BIORETENTION CELL IN GRASS DITCH

NOT TO SCALE



OBSERVATION WELL / CLEANOUT

NOT TO SCALE

NOTES

EROSION CONTROL: *For grassed bioretention, include temporary erosion control mat Type A, B, C, or E per CMS 671 over the surface of all bioretention planting soil.*

BIORETENTION PLANTING SOIL: See Bioretention Cell Note in General Note for approved bioretention planting soil characteristics.

SUBSOIL: Scarify the subsoil 3" minimum before installation of aggregate into bioretention cell.

BIORETENTION SIDES: Construct bioretention cells with vertical sides unless otherwise specified.

DRAINAGE DETAIL
LINEAR BIORETENTION CELL

WAR-63-0.83

MODEL: Drainage Details - Plan (1Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 2:00:02 PM USER: Tahir.Sondo@jacobs.com
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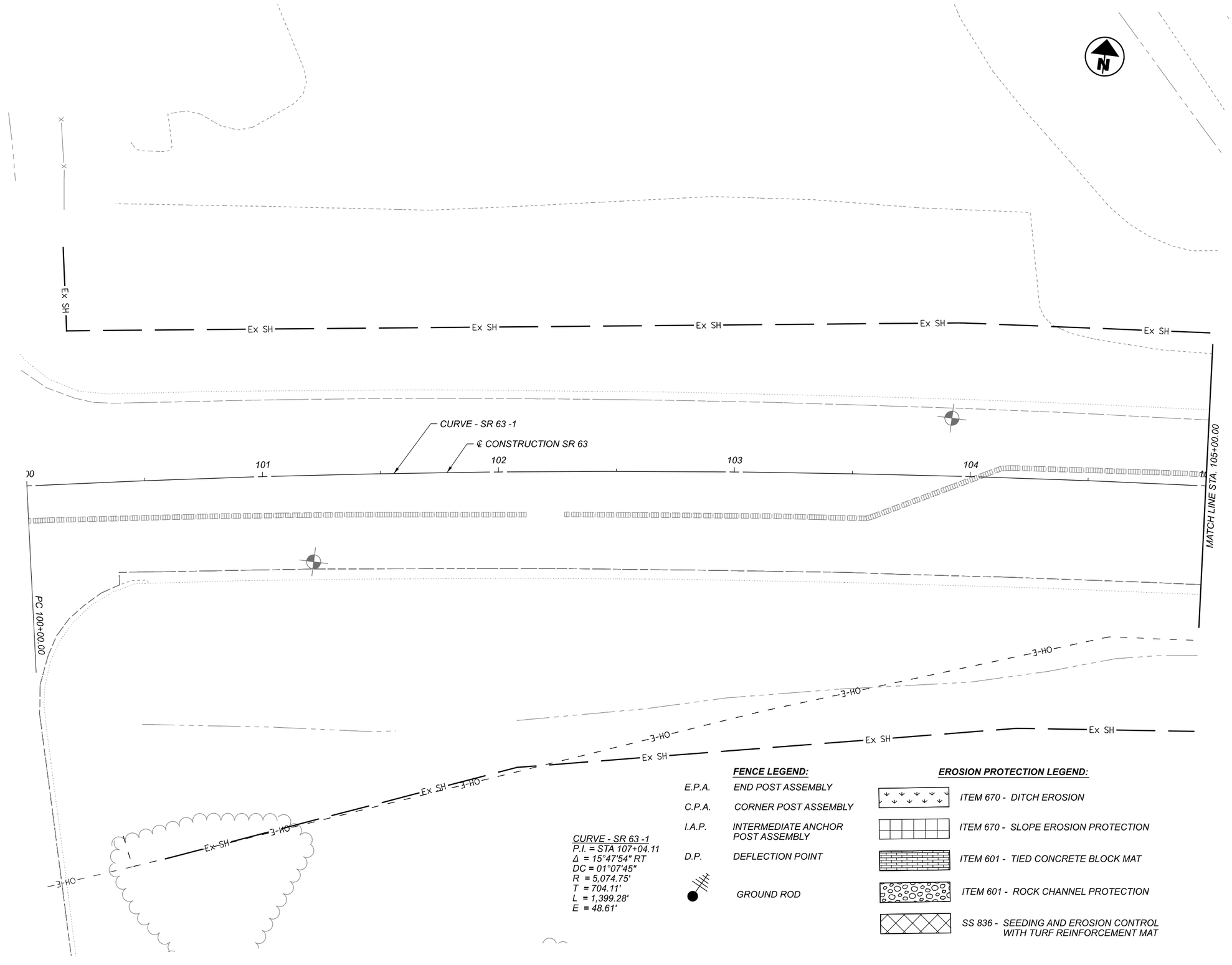
DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
CTS 08/22/23

PROJECT ID
112121

SHEET 91 | TOTAL 436



CURVE - SR 63 -1
P.I. = STA 107+04.11
Δ = 15°47'54" RT
DC = 01°07'45"
R = 5,074.75'
T = 704.11'
L = 1,399.28'
E = 48.61'

FENCE LEGEND:

E.P.A.	END POST ASSEMBLY
C.P.A.	CORNER POST ASSEMBLY
I.A.P.	INTERMEDIATE ANCHOR POST ASSEMBLY
D.P.	DEFLECTION POINT
	GROUND ROD

EROSION PROTECTION LEGEND:

- ITEM 670 - DITCH EROSION
- ITEM 670 - SLOPE EROSION PROTECTION
- ITEM 601 - TIED CONCRETE BLOCK MAT
- ITEM 601 - ROCK CHANNEL PROTECTION
- SS 836 - SEEDING AND EROSION CONTROL WITH TURF REINFORCEMENT MAT

HORIZONTAL SCALE IN FEET
0 10 20 40

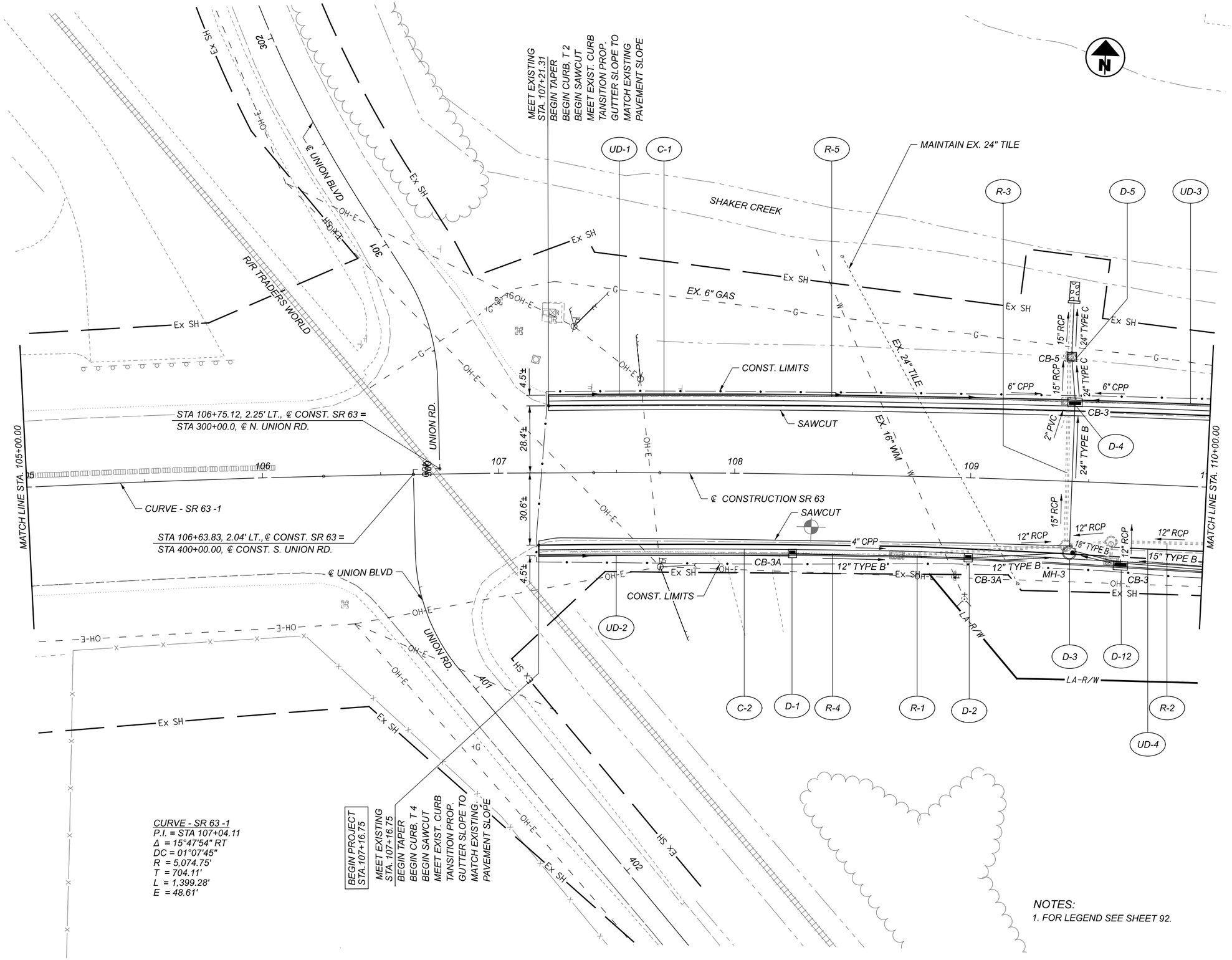
PLAN - SR 63
STA. 100+00.00 TO STA. 105+00.00

DESIGN AGENCY
JACOBS

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 92 TOTAL 436

WAR-63-0.83

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HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN - SR 63
STA. 105+00.00 TO STA. 110+00.00

WAR-63-0.83

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DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	93
TOTAL	436

GR-1, GUARDRAIL, TYPE MGS LONG POSTS
STA. 111+38.86 TO STA. 115+29.57, LENGTH = 375'

GR-1, GUARDRAIL, TYPE MGS HALF POST SPACING WITH LONG POSTS
STA. 115+29.57 TO STA. 115+54.57, LENGTH = 25'

GR-1, GUARDRAIL, TYPE MGS QUARTER POST SPACING WITH LONG POSTS
STA. 115+54.57 TO STA. 115+79.57, LENGTH = 25'

UD-3 R-5 C-1 GR-1 R-6

ANCHOR ASSEMBLY, MGS TYPE T
STA. 111+38.86

STA. 113+80.00
END TAPER

WETLAND C

SHAKER CREEK

Ex SH

EX. 6" GAS

CONST. LIMITS

SAWCUT

MATCH LINE STA. 110+00.00

MATCH LINE STA. 115+00.00

111 112 113 114

CURVE - SR 63 -1

℄ CONSTRUCTION SR 63

S84°31'54"E

12" RCP 12" CPP 4" CPP 15" TYPE B 12" TYPE B

CB-3A

OH-E

LA-R/W

UD-4

R-1 D-11 C-2 D-10 R-2 D-9 R-3 D-8 D-7 GR-17 F-1 D-6 R-4

PT 113+99.28

34' 38'

STA. 113+55.06
77.15' RT.
C.P.A.

ANCHOR ASSEMBLY, MGS TYPE E
STA. 113+53.00
LON, POST # 3

STA. 114+59.68
74.64' RT.
D.P.

CURVE - SR 63 -1
P.I. = STA 107+04.11
Δ = 15°47'54" RT
DC = 01°07'45"
R = 5,074.75'
T = 704.11'
L = 1,399.28'
E = 48.61'

GR-17, GUARDRAIL, TYPE MGS HALF POST SPACING
STA. 115+28.00 TO STA. 115+53.00, LENGTH = 50.00'
STA. 117+28.00 TO STA. 117+53.00, LENGTH = 50.00'

GR-17, GUARDRAIL, TYPE MGS QUARTER POST SPACING
STA. 115+53.00 TO STA. 117+28.00, LENGTH = 175.00'

NOTES:
1. FOR LEGEND SEE SHEET 92.

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN - SR 63
STA. 110+00.00 TO STA. 115+00.00

DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	94
TOTAL	436

WAR-63-0.83

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GR-1, GUARDRAIL, TYPE MGS LONG POSTS
STA. 111+38.86 TO STA. 115+29.57, LENGTH = 375'

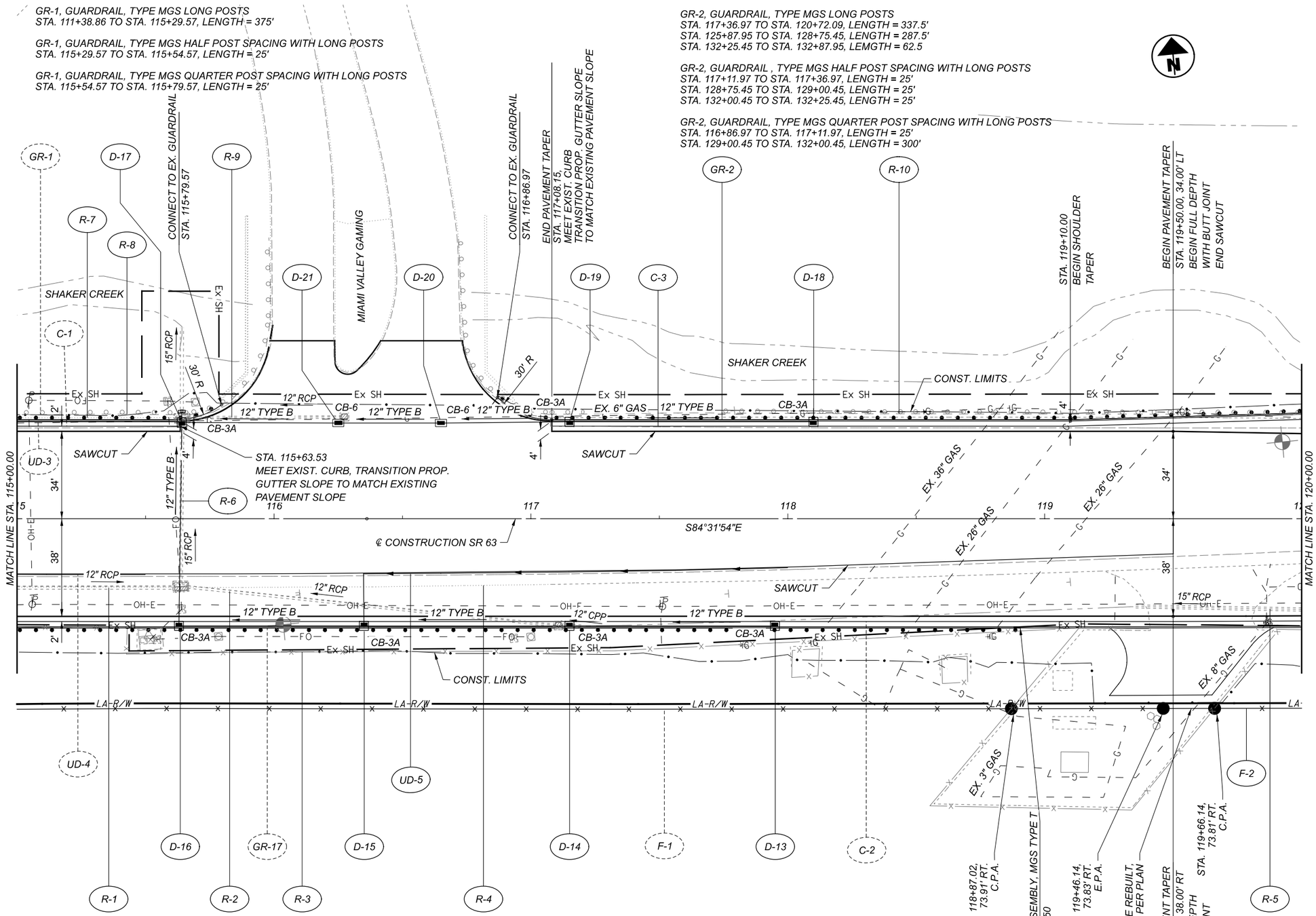
GR-1, GUARDRAIL, TYPE MGS HALF POST SPACING WITH LONG POSTS
STA. 115+29.57 TO STA. 115+54.57, LENGTH = 25'

GR-1, GUARDRAIL, TYPE MGS QUARTER POST SPACING WITH LONG POSTS
STA. 115+54.57 TO STA. 115+79.57, LENGTH = 25'

GR-2, GUARDRAIL, TYPE MGS LONG POSTS
STA. 117+36.97 TO STA. 120+72.09, LENGTH = 337.5'
STA. 125+87.95 TO STA. 128+75.45, LENGTH = 287.5'
STA. 132+25.45 TO STA. 132+87.95, LEMGTH = 62.5

GR-2, GUARDRAIL , TYPE MGS HALF POST SPACING WITH LONG POSTS
STA. 117+11.97 TO STA. 117+36.97, LENGTH = 25'
STA. 128+75.45 TO STA. 129+00.45, LENGTH = 25'
STA. 132+00.45 TO STA. 132+25.45, LENGTH = 25'

GR-2, GUARDRAIL, TYPE MGS QUARTER POST SPACING WITH LONG POSTS
STA. 116+86.97 TO STA. 117+11.97, LENGTH = 25'
STA. 129+00.45 TO STA. 132+00.45, LENGTH = 300'



GR-17, GUARDRAIL, TYPE MGS HALF POST SPACING
STA. 115+28.00 TO STA. 115+53.00, LENGTH = 50.00'
STA. 117+28.00 TO STA. 117+53.00, LENGTH = 50.00'

GR-17, GUARDRAIL, TYPE MGS QUARTER POST SPACING
STA. 115+53.00 TO STA. 117+28.00, LENGTH = 175.00'

NOTES:
1. FOR LEGEND SEE SHEET 92.

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN - SR 63
STA. 115+00.00 TO STA. 120+00.00

DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	95
TOTAL	436

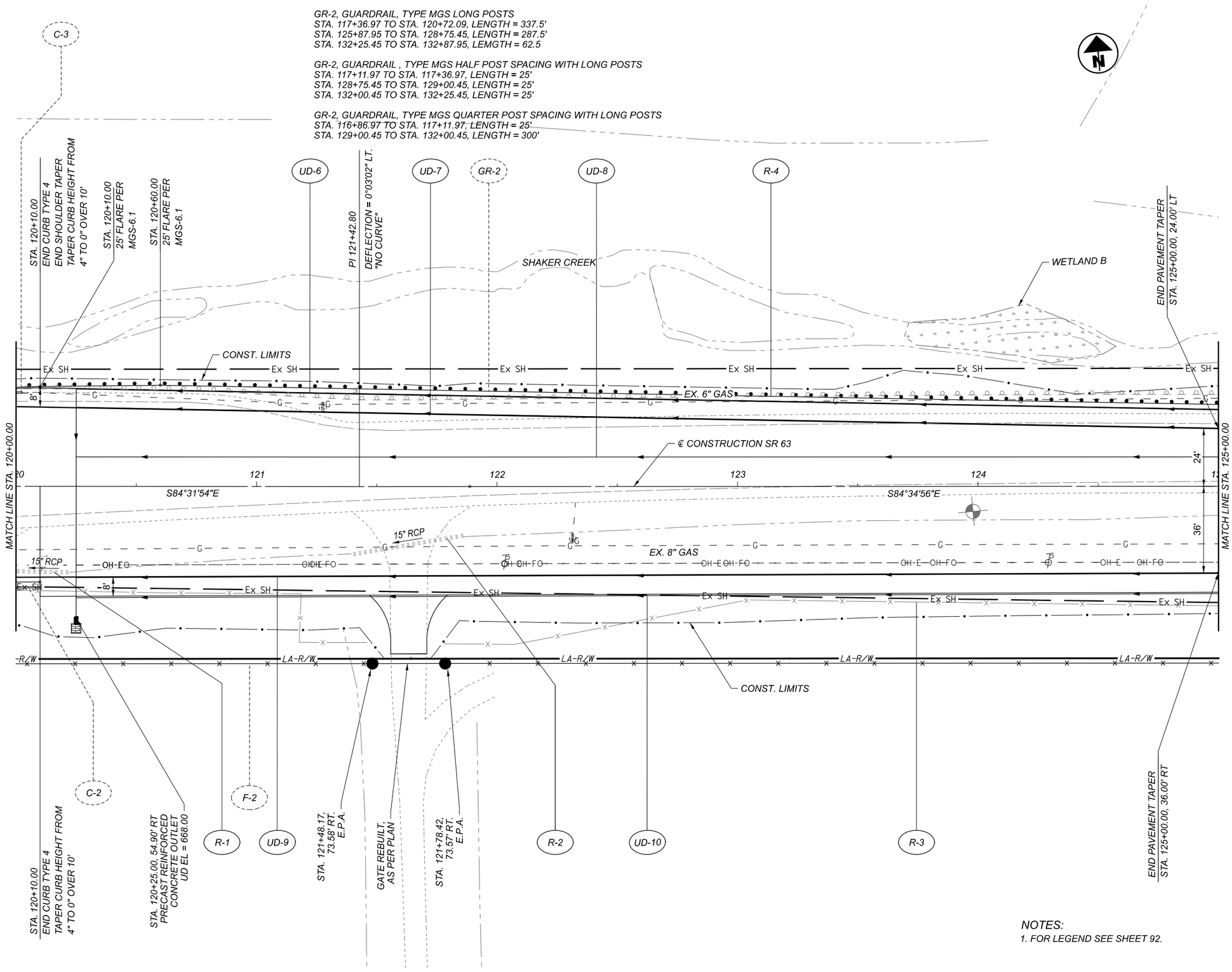
WAR-63-0.83

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GR-2, GUARDRAIL, TYPE MGS LONG POSTS
STA. 117+36.97 TO STA. 120+72.09, LENGTH = 337.5'
STA. 125+87.95 TO STA. 128+75.45, LENGTH = 287.5'
STA. 132+25.45 TO STA. 132+87.95, LEMGTH = 62.5

GR-2, GUARDRAIL , TYPE MGS HALF POST SPACING WITH LONG POSTS
STA. 117+11.97 TO STA. 117+36.97, LENGTH = 25'
STA. 128+75.45 TO STA. 129+00.45, LENGTH = 25'
STA. 132+00.45 TO STA. 132+25.45, LENGTH = 25'

GR-2, GUARDRAIL, TYPE MGS QUARTER POST SPACING WITH LONG POSTS
STA. 116+86.97 TO STA. 117+11.97, LENGTH = 25'
STA. 129+00.45 TO STA. 132+00.45, LENGTH = 300'



NOTES:
1. FOR LEGEND SEE SHEET 92.

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN - SR 63
STA. 120+00.00 TO STA. 125+00.00

DESIGN AGENCY	JACOBS
DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	96
TOTAL	436

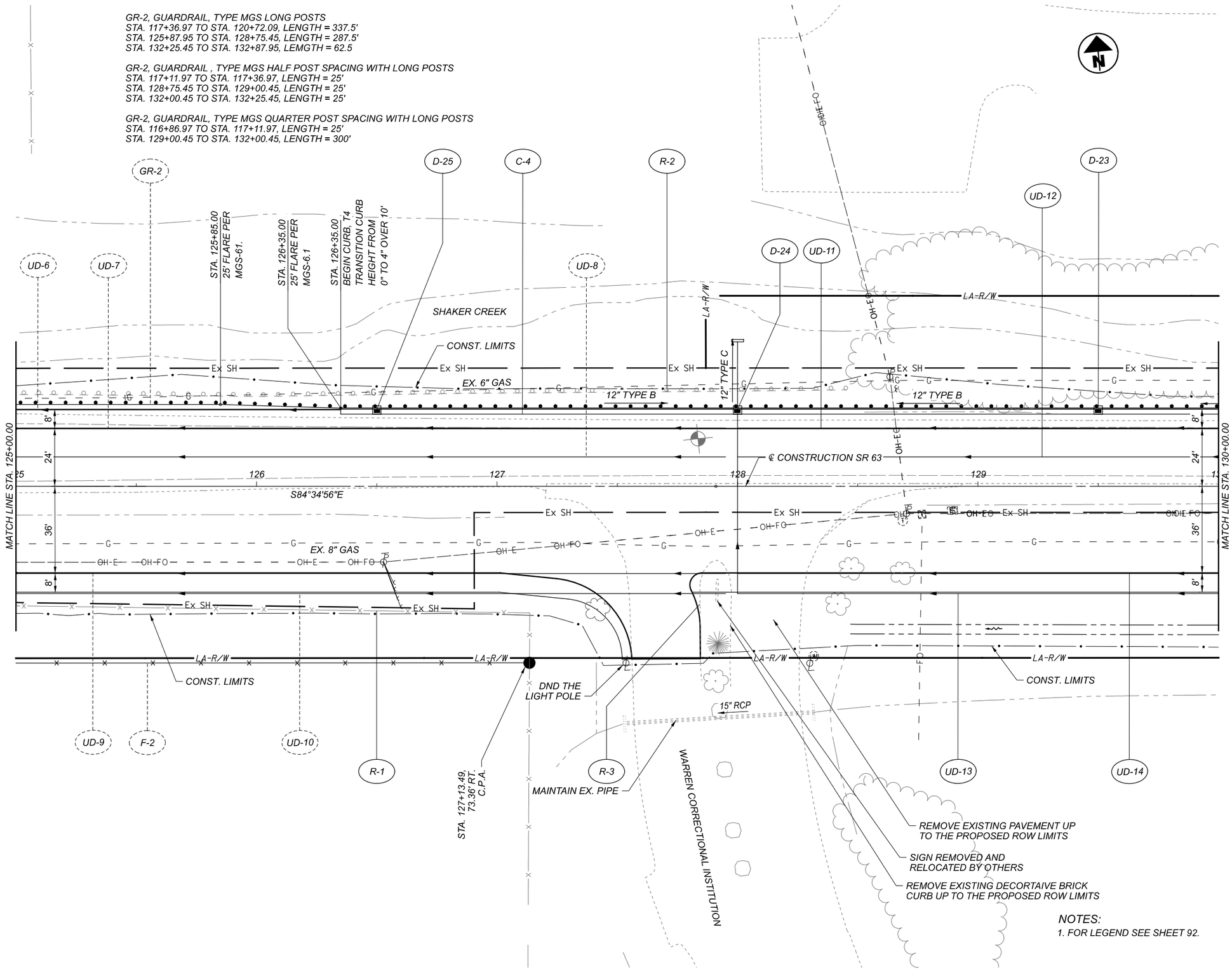
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GR-2, GUARDRAIL, TYPE MGS LONG POSTS
STA. 117+36.97 TO STA. 120+72.09, LENGTH = 337.5'
STA. 125+87.95 TO STA. 128+75.45, LENGTH = 287.5'
STA. 132+25.45 TO STA. 132+87.95, LEMGTH = 62.5

GR-2, GUARDRAIL , TYPE MGS HALF POST SPACING WITH LONG POSTS
STA. 117+11.97 TO STA. 117+36.97, LENGTH = 25'
STA. 128+75.45 TO STA. 129+00.45, LENGTH = 25'
STA. 132+00.45 TO STA. 132+25.45, LENGTH = 25'

GR-2, GUARDRAIL, TYPE MGS QUARTER POST SPACING WITH LONG POSTS
STA. 116+86.97 TO STA. 117+11.97, LENGTH = 25'
STA. 129+00.45 TO STA. 132+00.45, LENGTH = 300'



NOTES:
1. FOR LEGEND SEE SHEET 92.

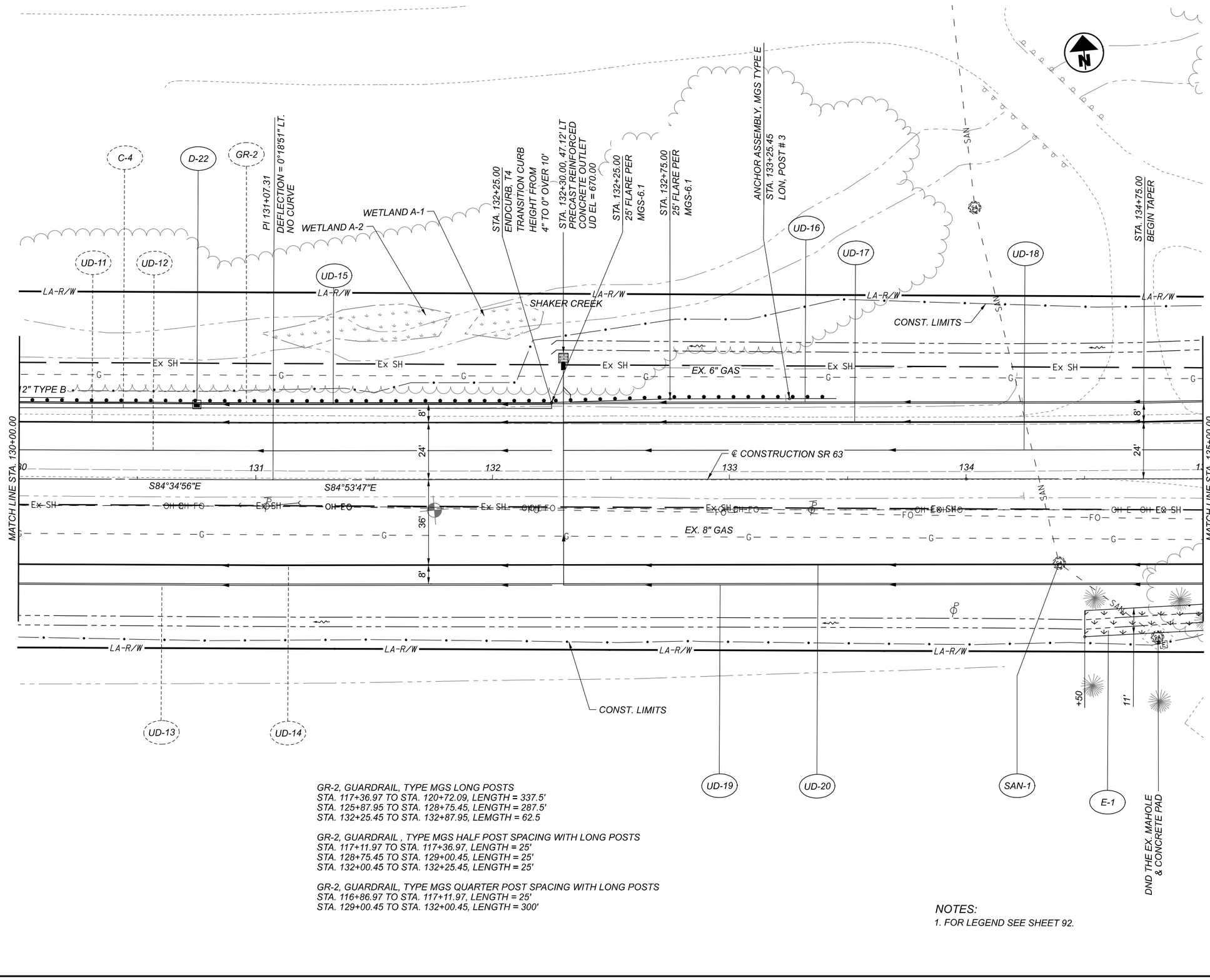
HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN - SR 63
STA. 125+00.00 TO STA. 130+00.00

DESIGN AGENCY	JACOBS
DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	97
TOTAL	436

WAR-63-0.83

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GR-2, GUARDRAIL, TYPE MGS LONG POSTS
STA. 117+36.97 TO STA. 120+72.09, LENGTH = 337.5'
STA. 125+87.95 TO STA. 128+75.45, LENGTH = 287.5'
STA. 132+25.45 TO STA. 132+87.95, LEMGTH = 62.5

GR-2, GUARDRAIL , TYPE MGS HALF POST SPACING WITH LONG POSTS
STA. 117+11.97 TO STA. 117+36.97, LENGTH = 25'
STA. 128+75.45 TO STA. 129+00.45, LENGTH = 25'
STA. 132+00.45 TO STA. 132+25.45, LENGTH = 25'

GR-2, GUARDRAIL, TYPE MGS QUARTER POST SPACING WITH LONG POSTS
STA. 116+86.97 TO STA. 117+11.97, LENGTH = 25'
STA. 129+00.45 TO STA. 132+00.45, LENGTH = 300'

NOTES:
1. FOR LEGEND SEE SHEET 92.

HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN - SR 63
STA. 130+00.00 TO STA. 135+00.00

DESIGN AGENCY
JACOBS

DESIGNER
MJA

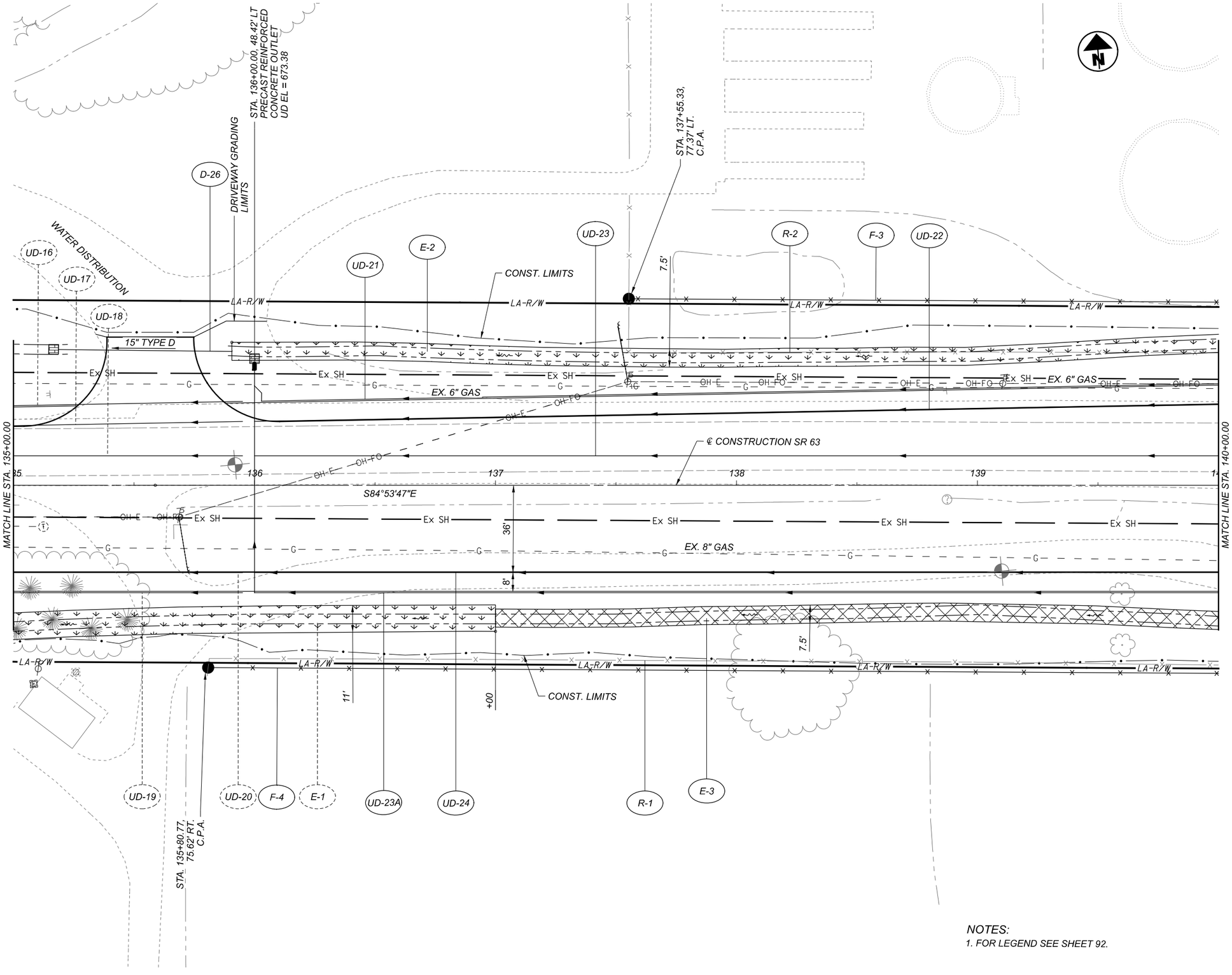
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 98 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 7 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 10:08 PM USER: Tahir.Sondo@Jacobs.com
pw:\\Project=WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn



NOTES:
1. FOR LEGEND SEE SHEET 92.

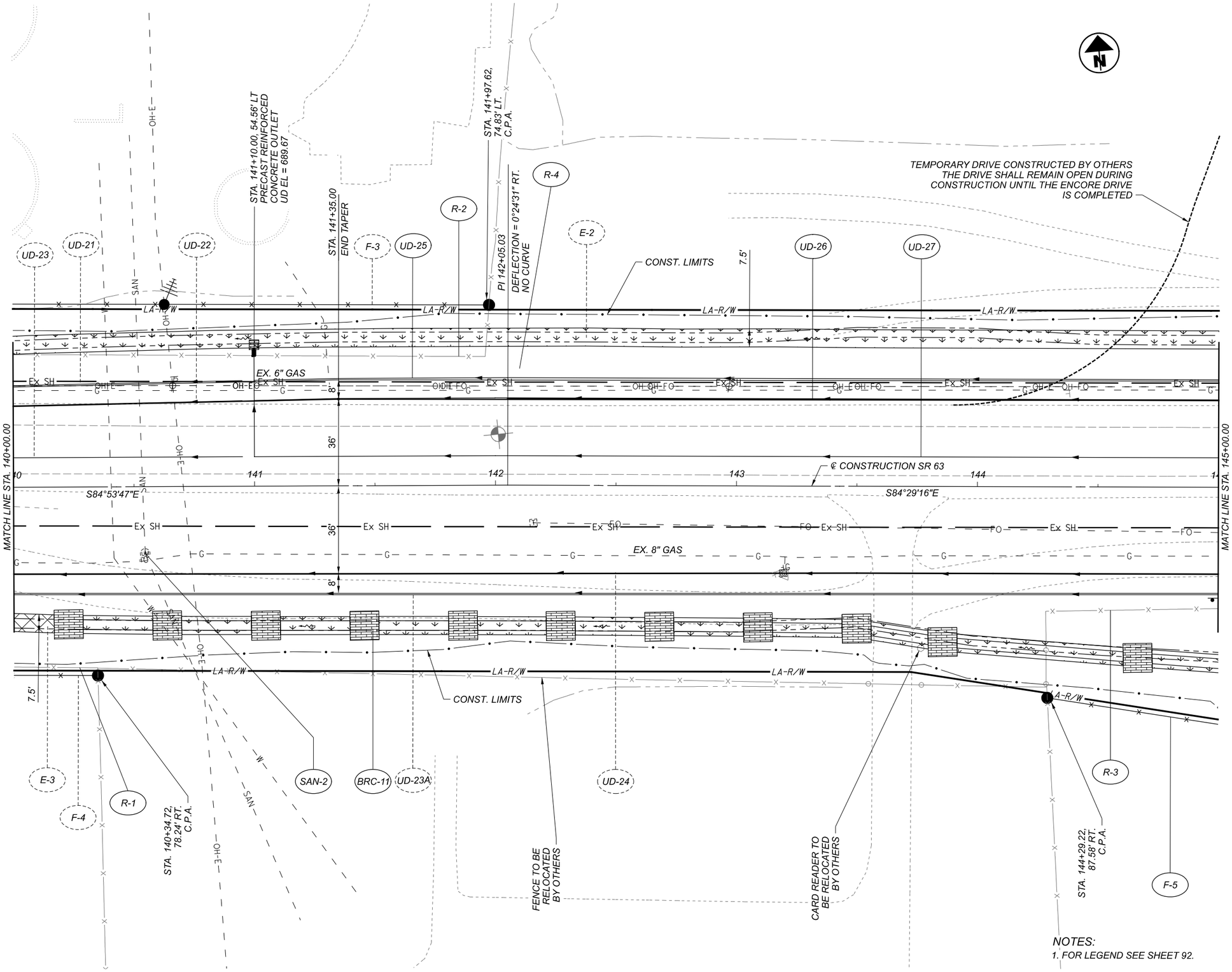
HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN - SR 63
STA. 135+00.00 TO STA. 140+00.00

DESIGN AGENCY	JACOBS
DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	99
TOTAL	436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 8 [Sheet] PAPERSIZE: 7Xll(in.) DATE: 8/23/2023 TIME: 10:10 PM USER: Tahir.Sondo@Jacobs.com
pw:\\ProjectWiseAMER.Jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn



NOTES:
1. FOR LEGEND SEE SHEET 92.

HORIZONTAL SCALE IN FEET
0 10 20 40

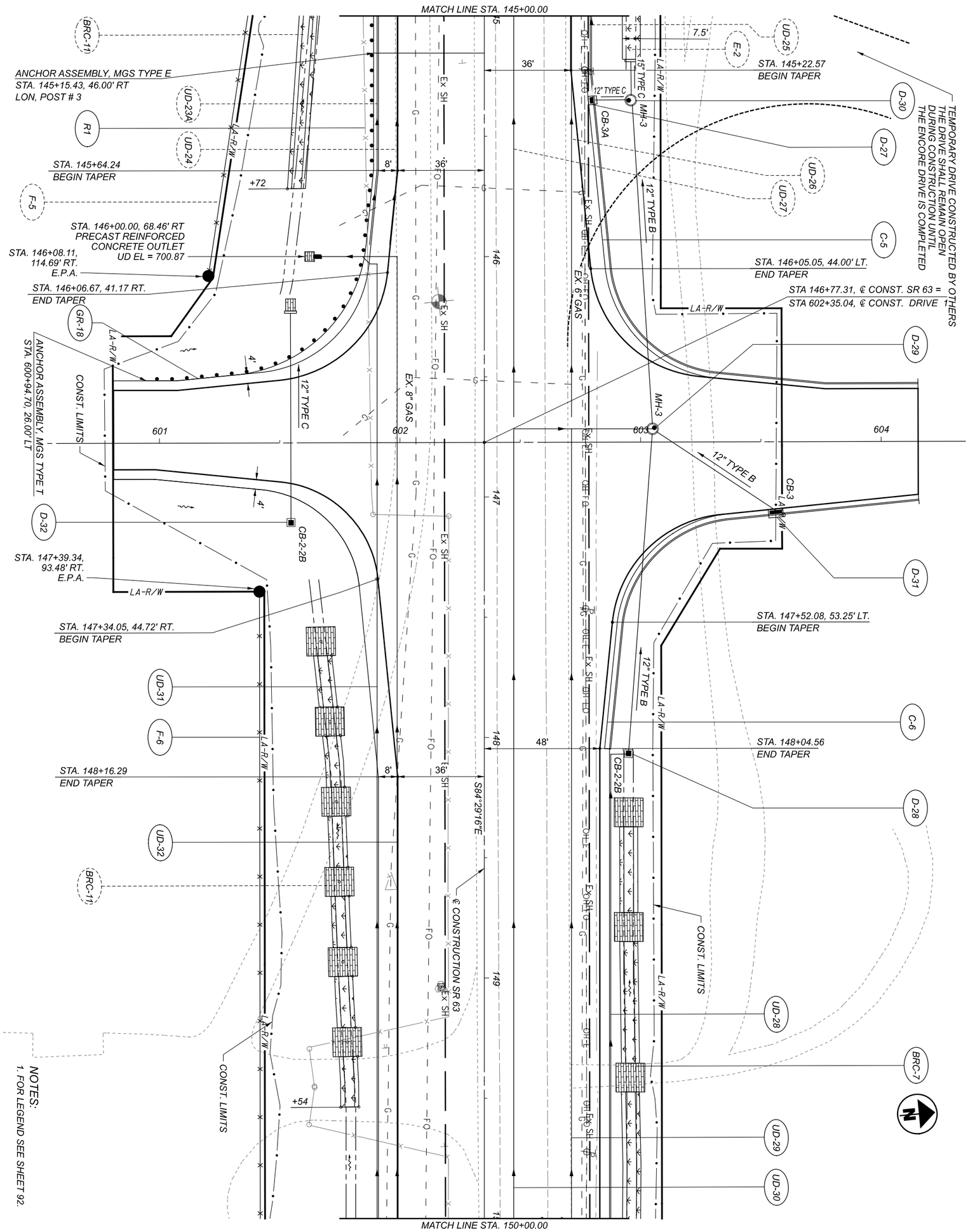
PLAN - SR 63
STA. 140+00.00 TO STA. 145+00.00

DESIGN AGENCY	JACOBS
DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	100
TOTAL	436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 9 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 10:12 PM USER: Tahir.Sondos@Jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn

MODEL: CLP_SR63 - Plan 10 (Sheet) PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 10:13 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn

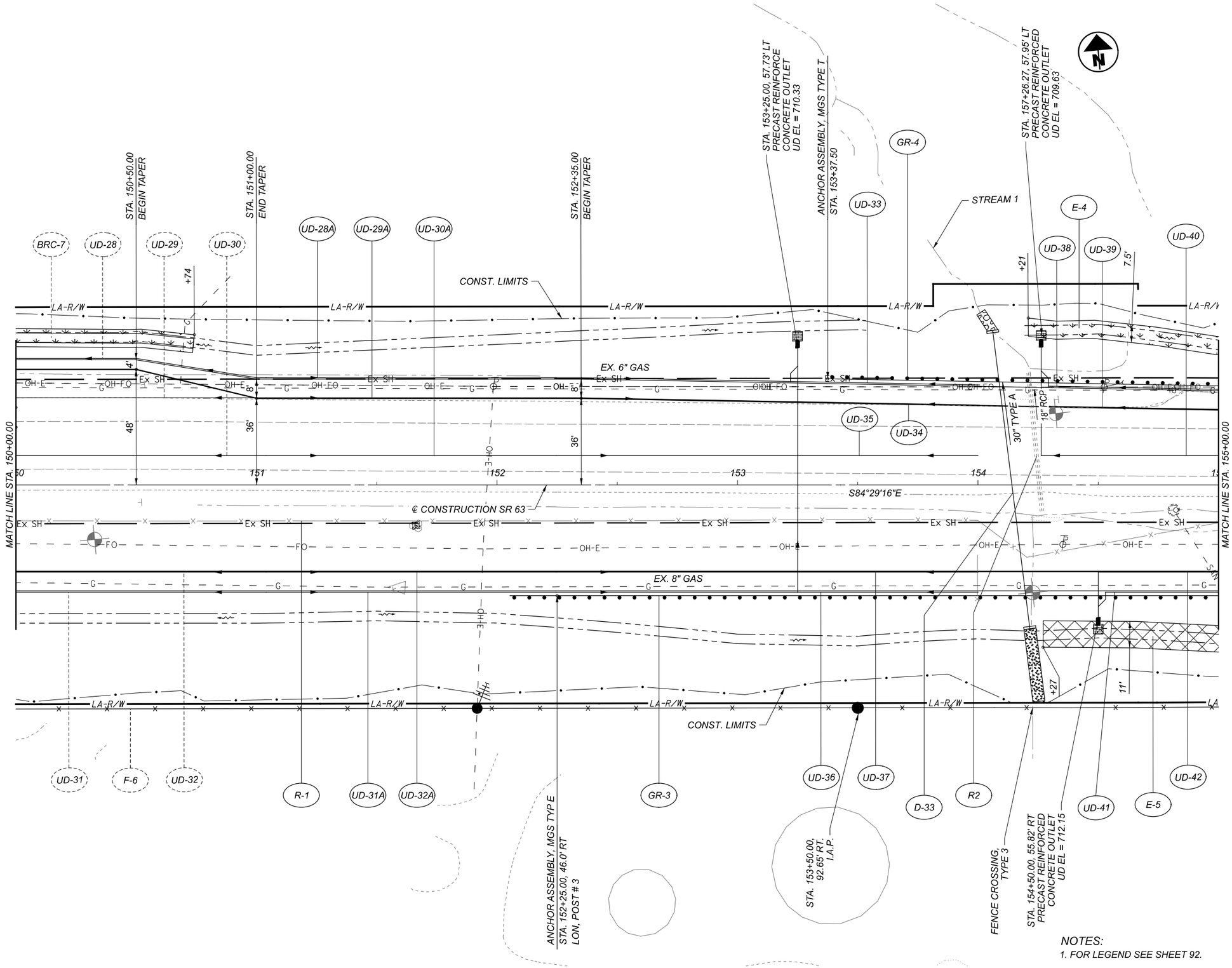


SHEET 101 TOTAL 436	PROJECT ID 112121	DESIGNER MJA REVIEWER RN 08/22/23	DESIGN AGENCY JACOBS	PLAN - SR 63 STA. 145+00.00 TO STA. 150+00.00

HORIZONTAL SCALE IN FEET
0 20
10 40

WAR-63-0.83

MODEL: CLP_SR63 - Plan II(Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 10:05 PM USER: Tahir.Sondo@jacobs.com
pw:\\Project=WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn



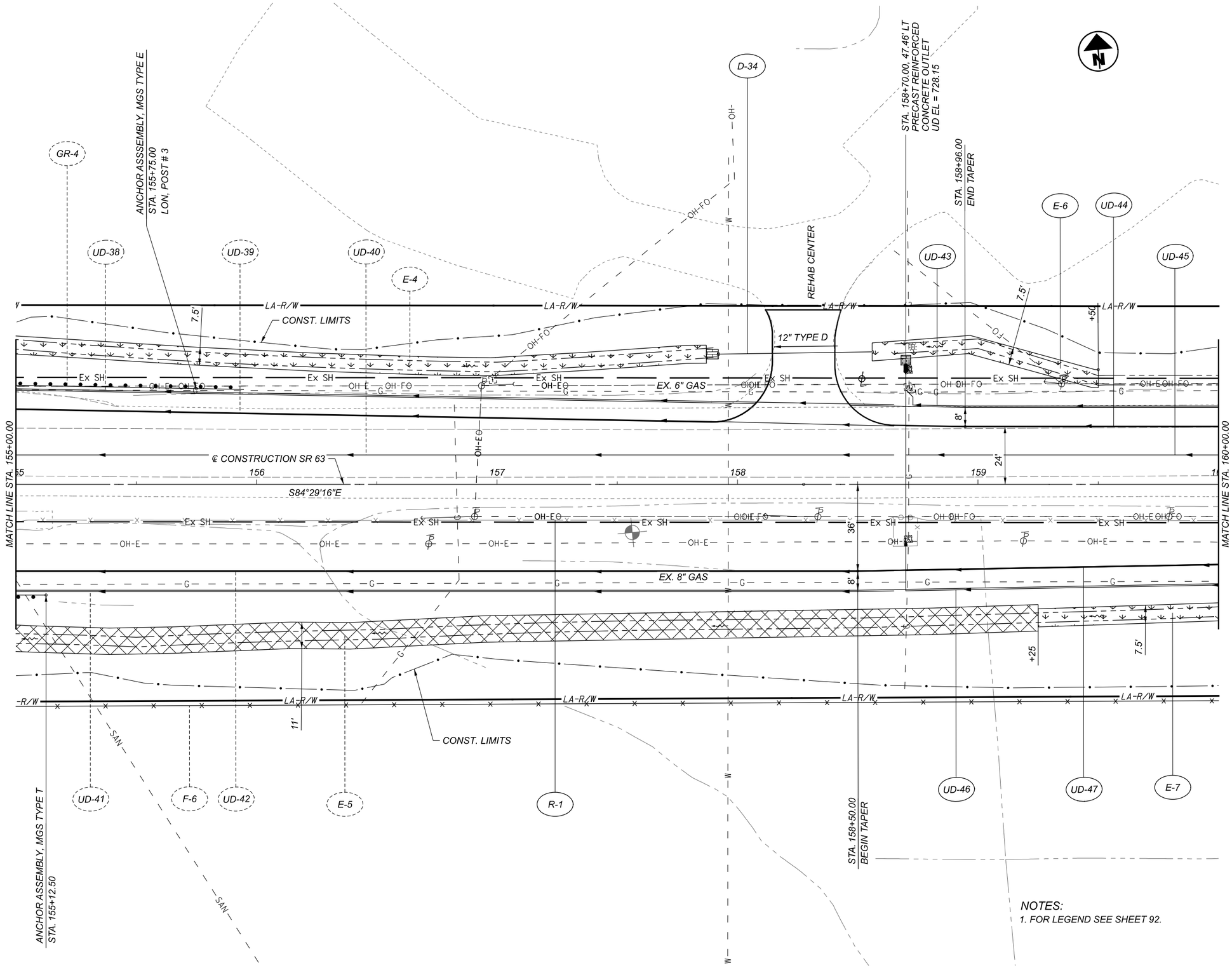
NOTES:
1. FOR LEGEND SEE SHEET 92.

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN - SR 63
STA. 150+00.00 TO STA. 155+00.00

DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	102
TOTAL	436



NOTES:
1. FOR LEGEND SEE SHEET 92.

HORIZONTAL SCALE IN FEET
0 10 20 40

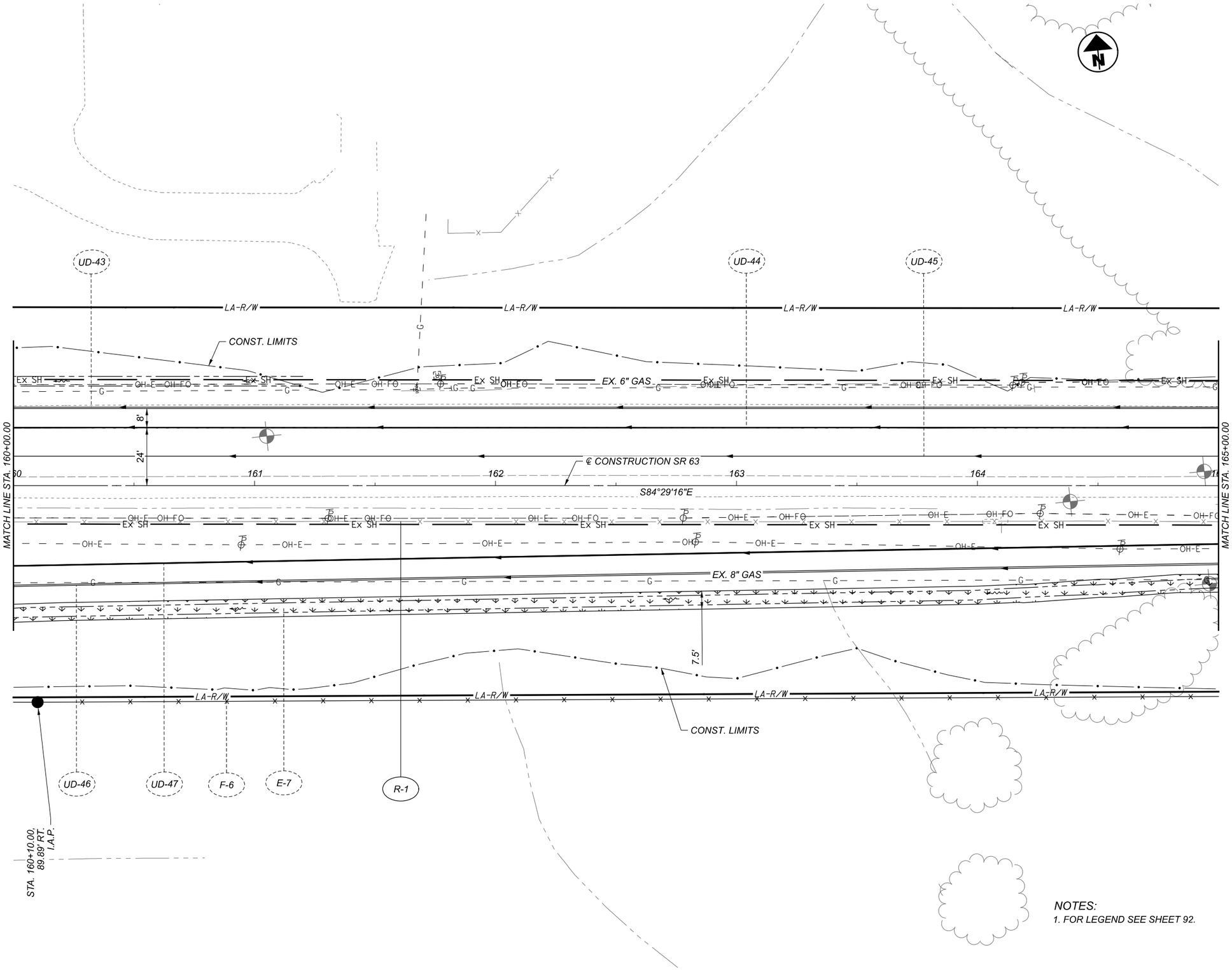
PLAN - SR 63
STA. 155+00.00 TO STA. 160+00.00

DESIGN AGENCY
JACOBS

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 103 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 12 (Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 10:17 PM USER: Tahir.Sondo@Jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn



NOTES:
1. FOR LEGEND SEE SHEET 92.

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN - SR 63
STA. 160+00.00 TO STA. 165+00.00

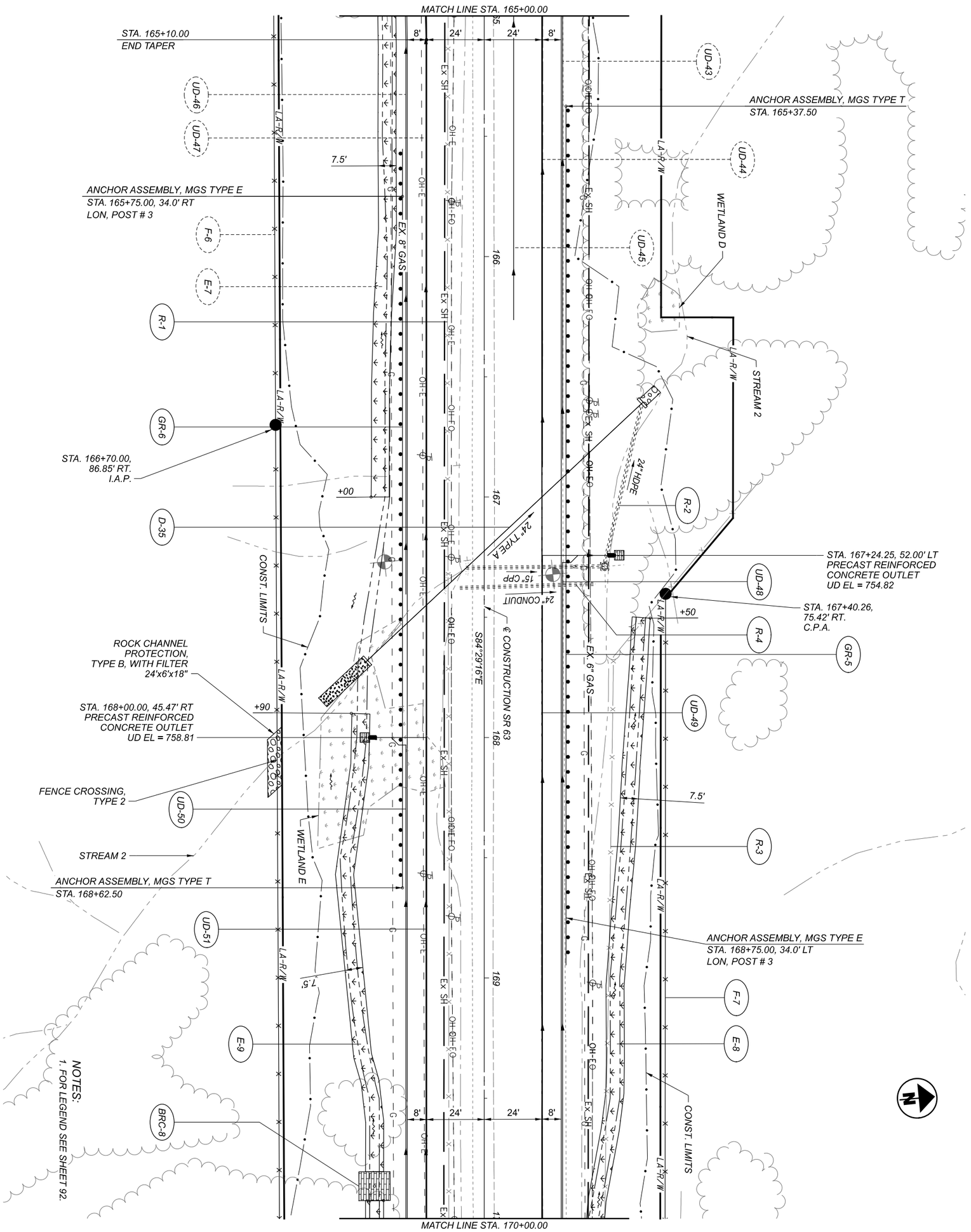
DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	104
TOTAL	436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 13 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 10:09 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn

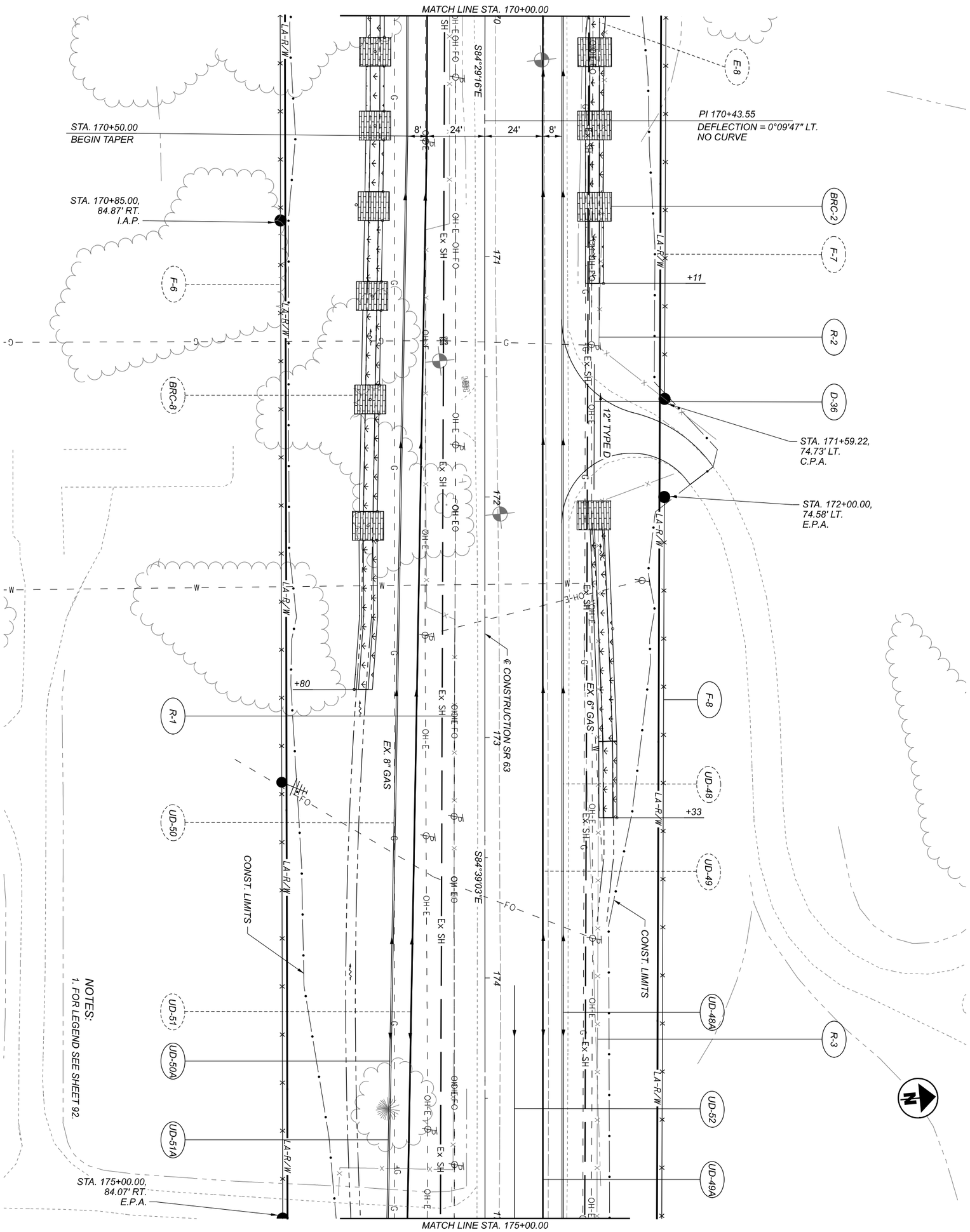
MODEL: CLP_SR63 - Plan 14 (Sheet) PAPERSIZE: 17x11 (In.) DATE: 8/23/2023 TIME: 10:20 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6AI8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn



SHEET 165 TOTAL 436	PROJECT ID 112121	DESIGNER MJA REVIEWER RN 08/22/23	DESIGN AGENCY JACOBS	PLAN - SR 63 STA. 165+00.00 TO STA. 170+00.00

HORIZONTAL SCALE IN FEET
0 20
10 40

MODEL: CLP_SR63 - Plan 15 (Sheet) PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 10:22 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn



NOTES:
1. FOR LEGEND SEE SHEET 92.

PLAN - SR 63
STA. 170+00.00 TO STA. 175+00.00

HORIZONTAL SCALE IN FEET
0 20
10 40

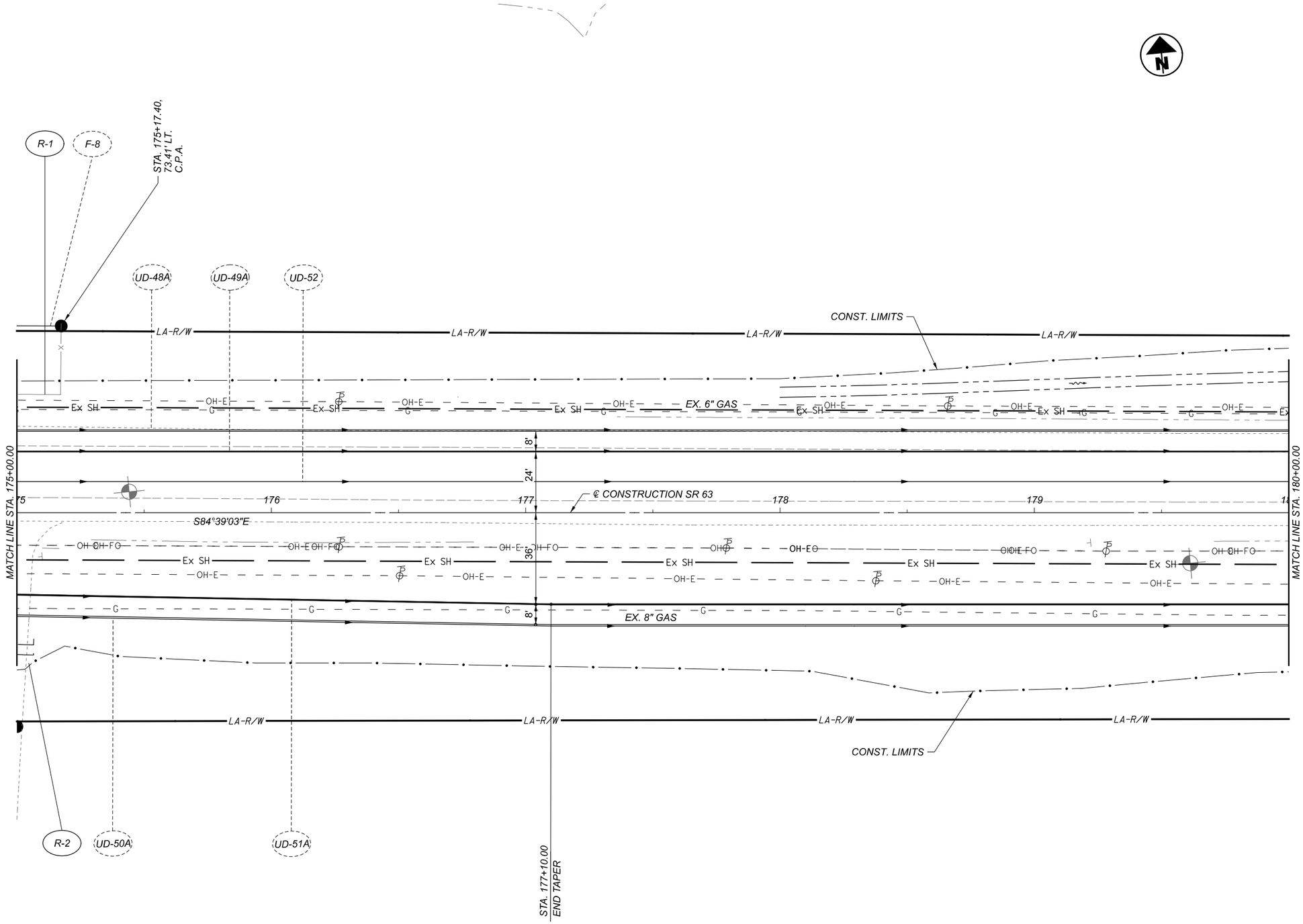
SHEET	TOTAL
186	436

PROJECT ID: 112121

REVIEWER: RN 08/22/23

DESIGNER: MJA

DESIGN AGENCY: JACOBS



NOTES:
1. FOR LEGEND SEE SHEET 92.

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN - SR 63
STA. 175+00.00 TO STA. 180+00.00

DESIGN AGENCY
JACOBS

DESIGNER
MJA

REVIEWER
RN 08/22/23

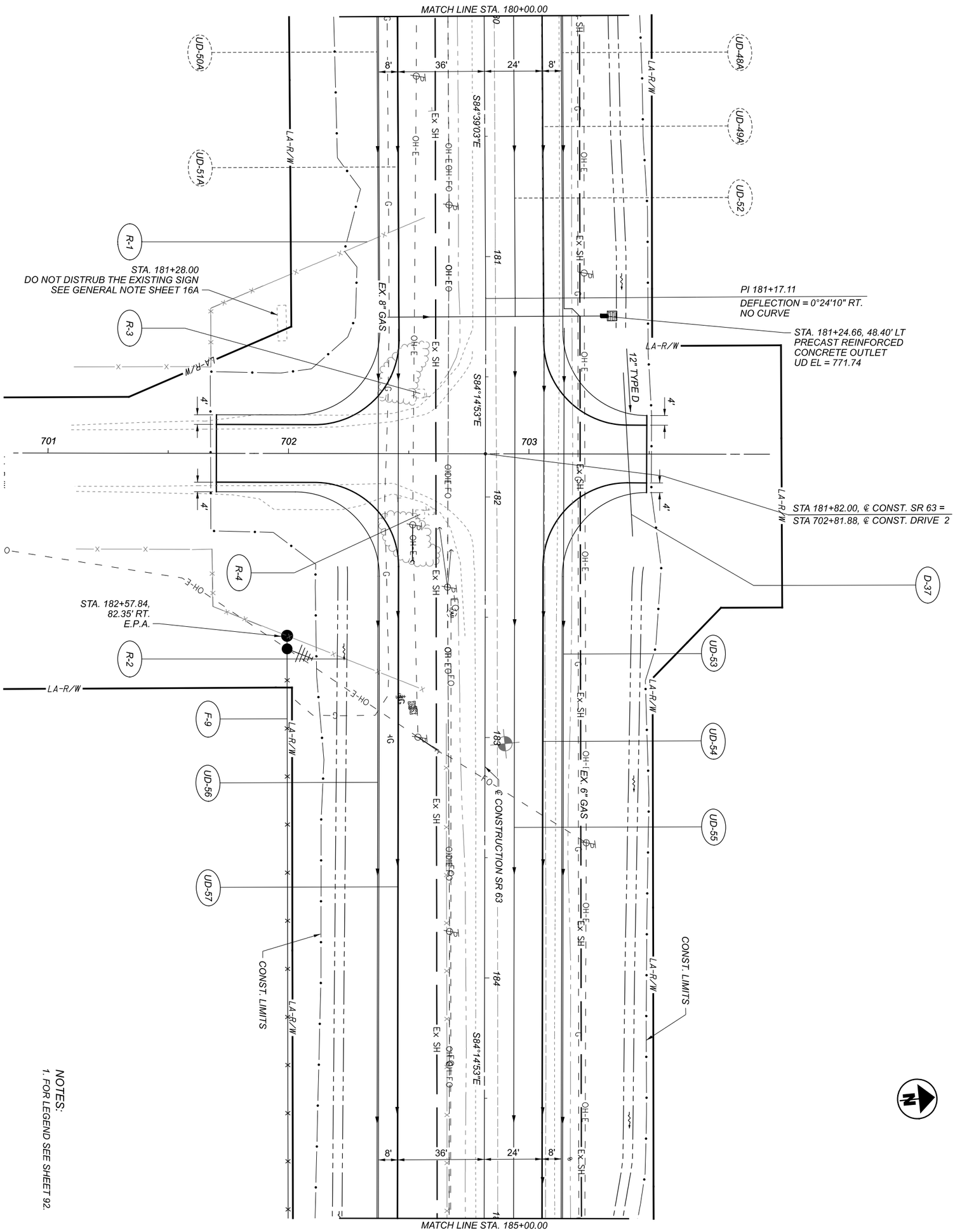
PROJECT ID
112121

SHEET 107 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 16 (Sheet1) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:01:24 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn

MODEL: CLP_SR63 - Plan 17 (Sheet) PAPERSIZE: 17x11 (In.) DATE: 8/23/2023 TIME: 10:25 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn



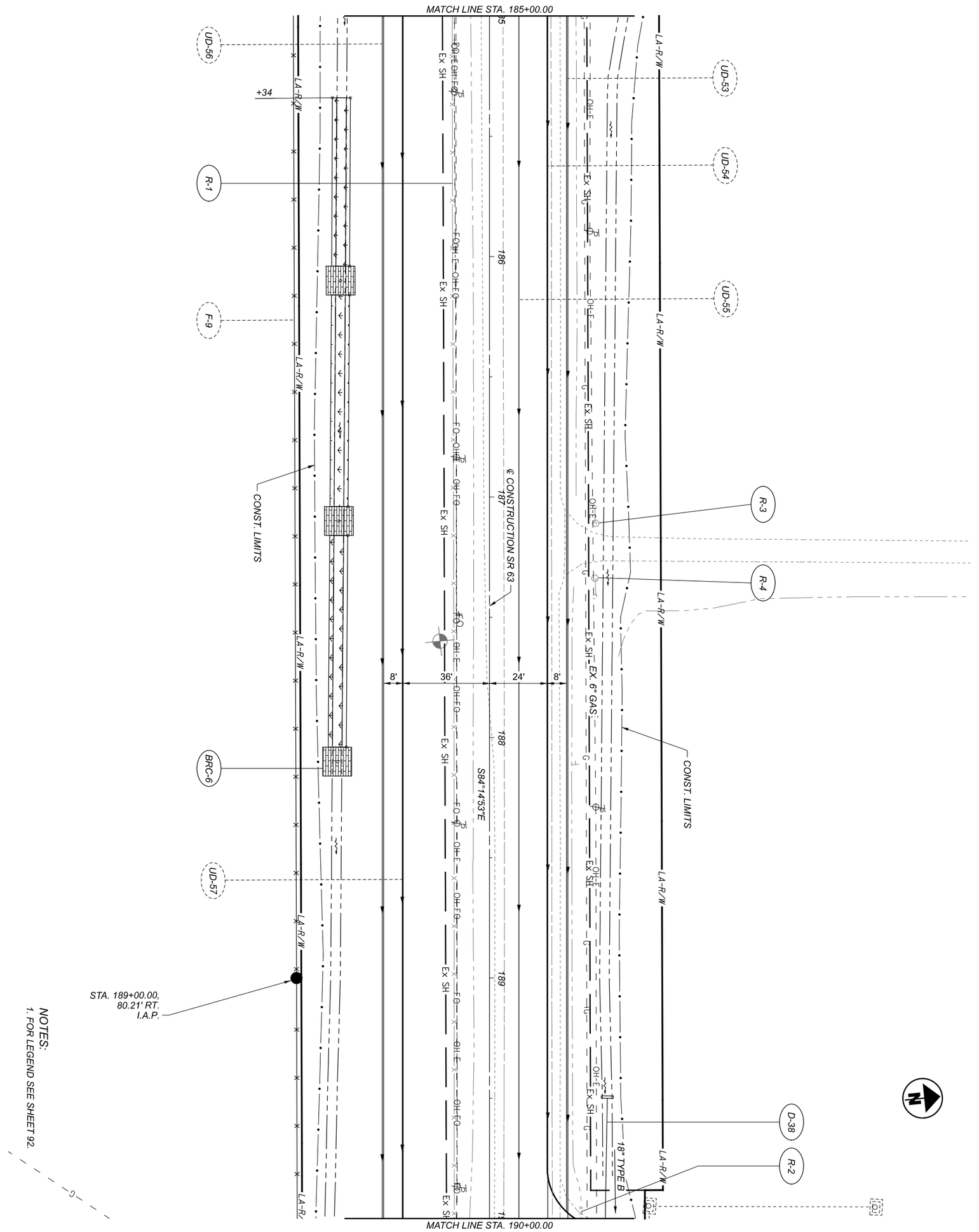
NOTES:
1. FOR LEGEND SEE SHEET 92.

SHEET 108 / TOTAL 436	PROJECT ID 112121	REVIEWER RN 08/22/23	DESIGNER MJA	DESIGN AGENCY JACOBS

PLAN - SR 63
STA. 180+00.00 TO STA. 185+00.00

HORIZONTAL SCALE IN FEET
0 20
10 40

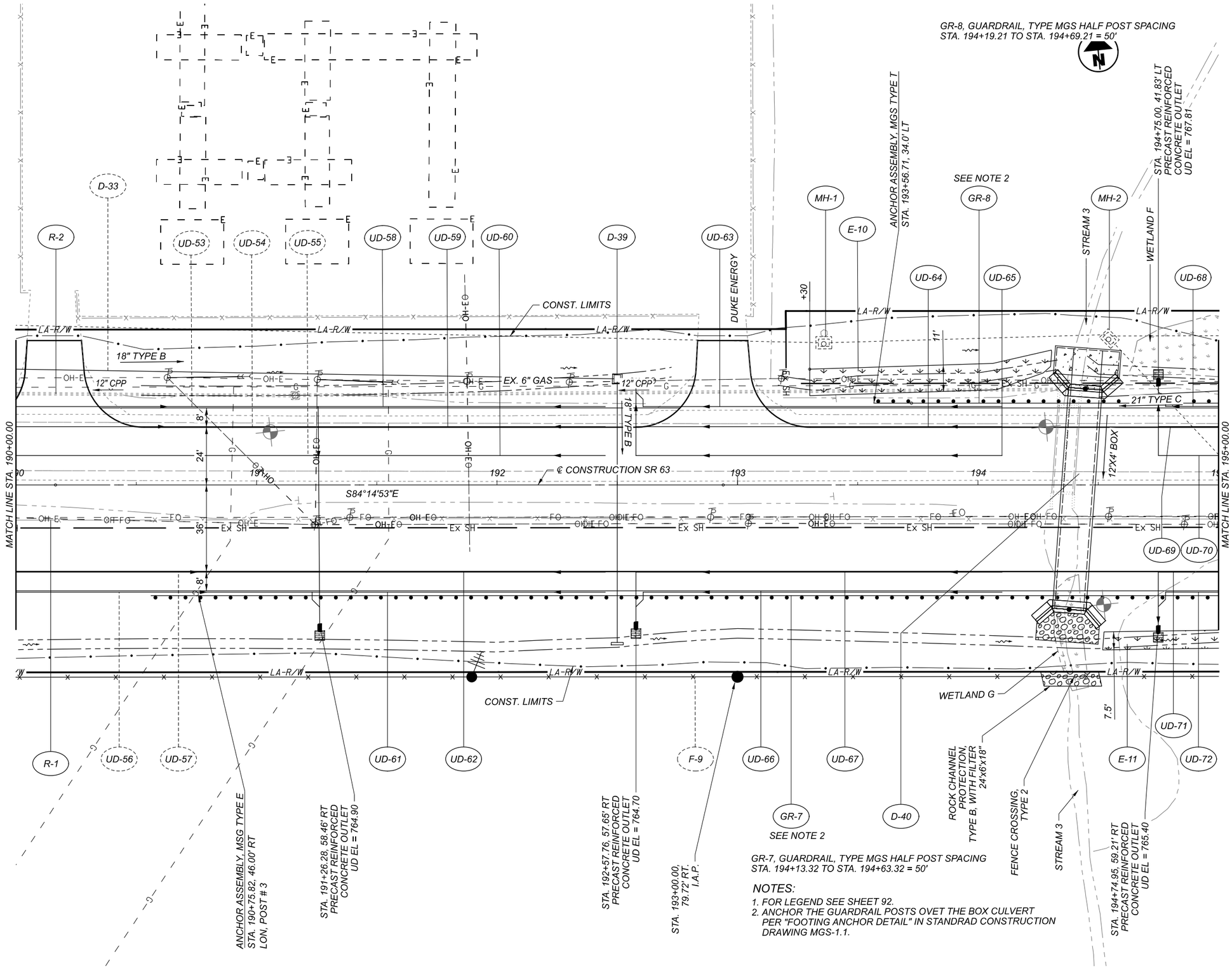
MODEL: CLP_SR63 - Plan 18 (Sheet) PAPERSIZE: 17x11 (In.) DATE: 8/23/2023 TIME: 10:27 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn



PLAN - SR 63
STA. 185+00.00 TO STA. 190+00.00

HORIZONTAL SCALE IN FEET
0 20
10 40

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 189 TOTAL 436
DESIGN AGENCY JACOBS



NOTES:

1. FOR LEGEND SEE SHEET 92.
2. ANCHOR THE GUARDRAIL POSTS OVET THE BOX CULVERT PER "FOOTING ANCHOR DETAIL" IN STANDRAD CONSTRUCTION DRAWING MGS-1.1.

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN - SR 63
STA. 190+00.00 TO STA. 195+00.00

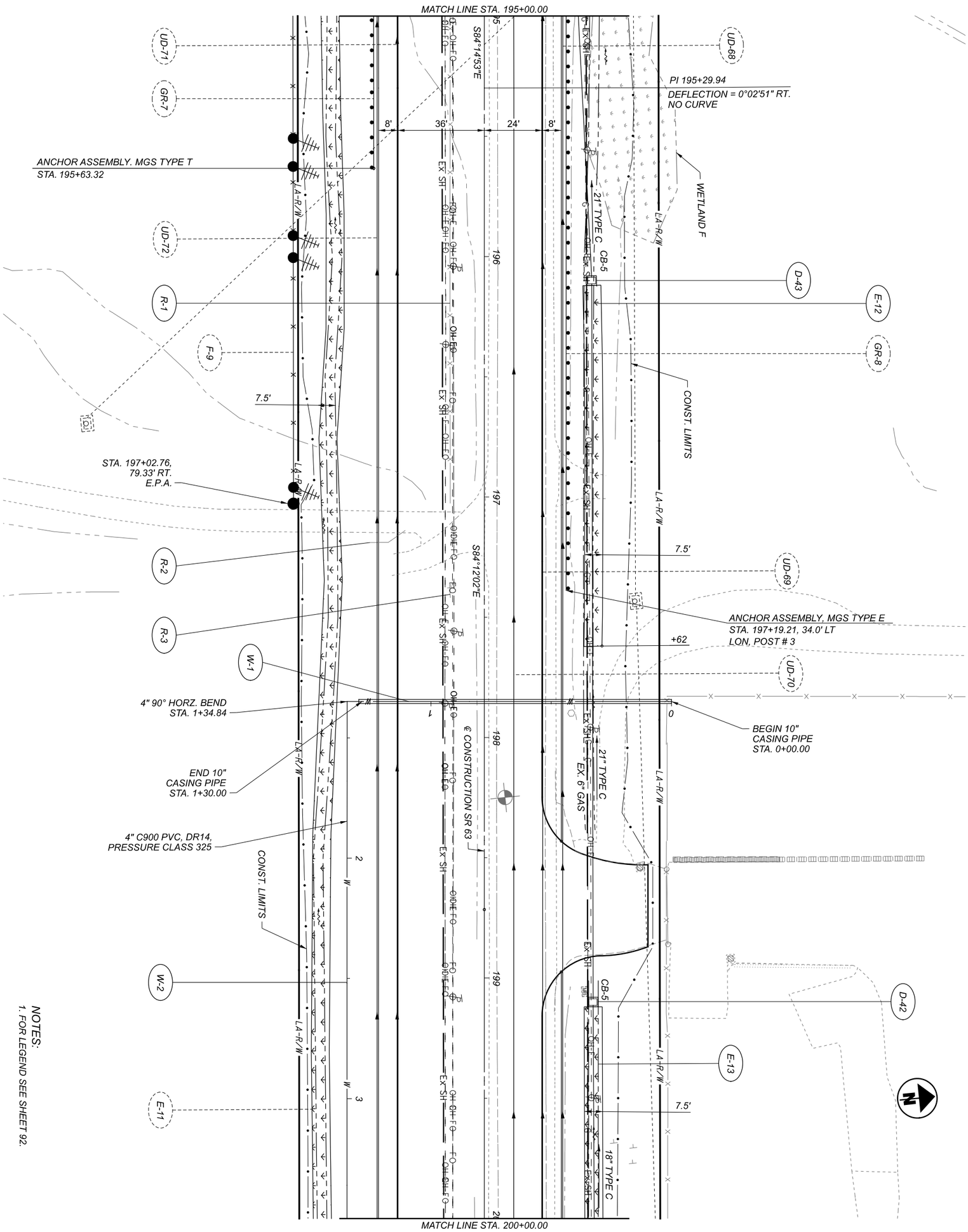
WAR-63-0.83

MODEL: CLP_SR63 - Plan 19 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 10:28 PM USER: Tahir.Sondo@jacobs.com
pw:\\Project+WiseAMER.jacobs.com:DEN003\Documents\C6A8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn

DESIGN AGENCY
JACOBS

DESIGNER	
MJA	
REVIEWER	
RN	08/22/23
PROJECT ID	
112121	
SHEET	TOTAL
110	436

MODEL: CLP_SR63 - Plan 20 [Sheet] PAPERSIZE: 17x11(In.) DATE: 8/23/2023 TIME: 10:13 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn



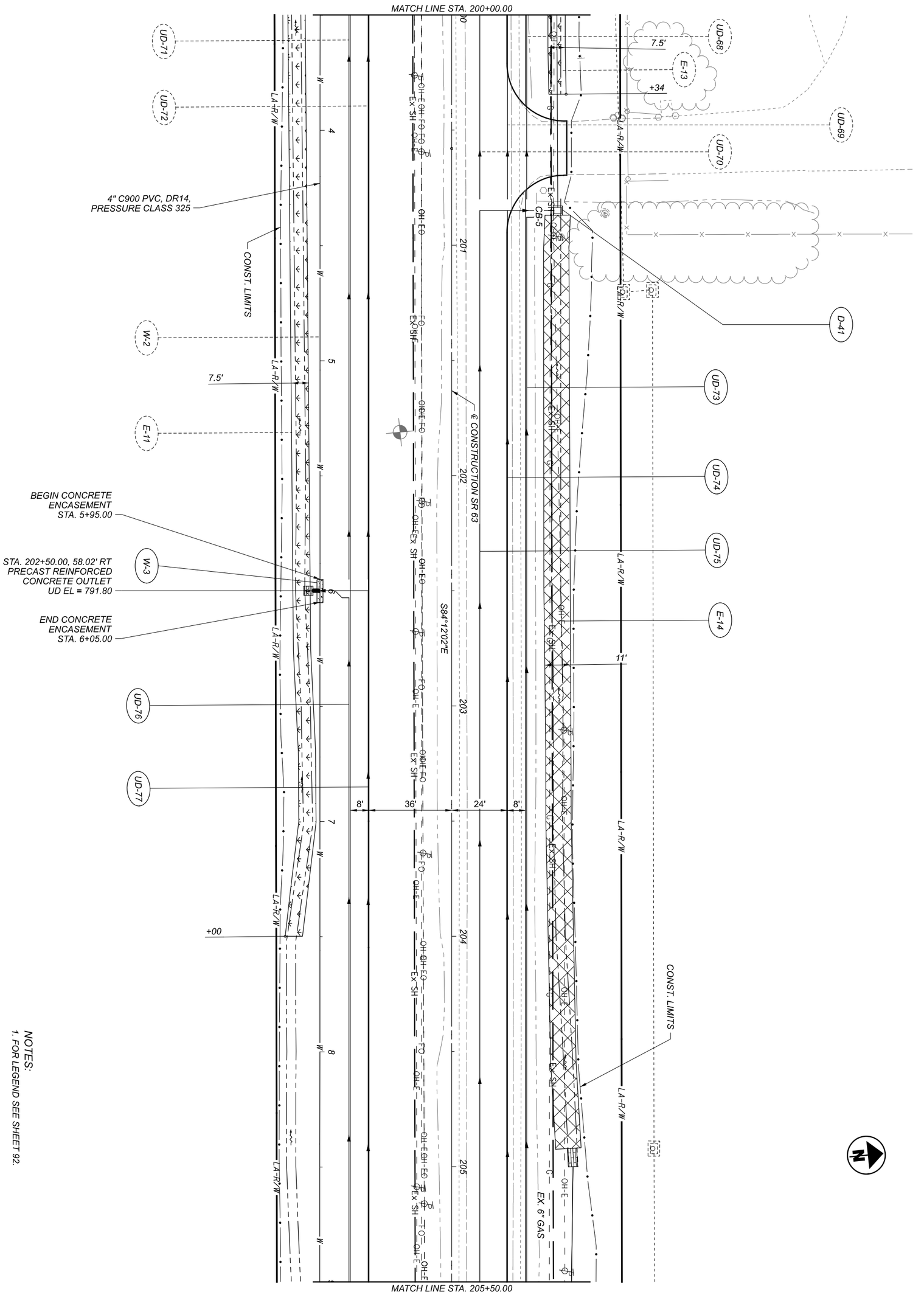
NOTES:
1. FOR LEGEND SEE SHEET 92.

PLAN - SR 63
STA. 195+00.00 TO STA. 200+00.00

HORIZONTAL SCALE IN FEET
0 20
10 40

DESIGN AGENCY: JACOBS
DESIGNER: MJA
REVIEWER: RN 08/22/23
PROJECT ID: 112121
SHEET: 111 TOTAL: 436

MODEL: CLP_SR63 - Plan 2[Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:01:32 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6AI8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn

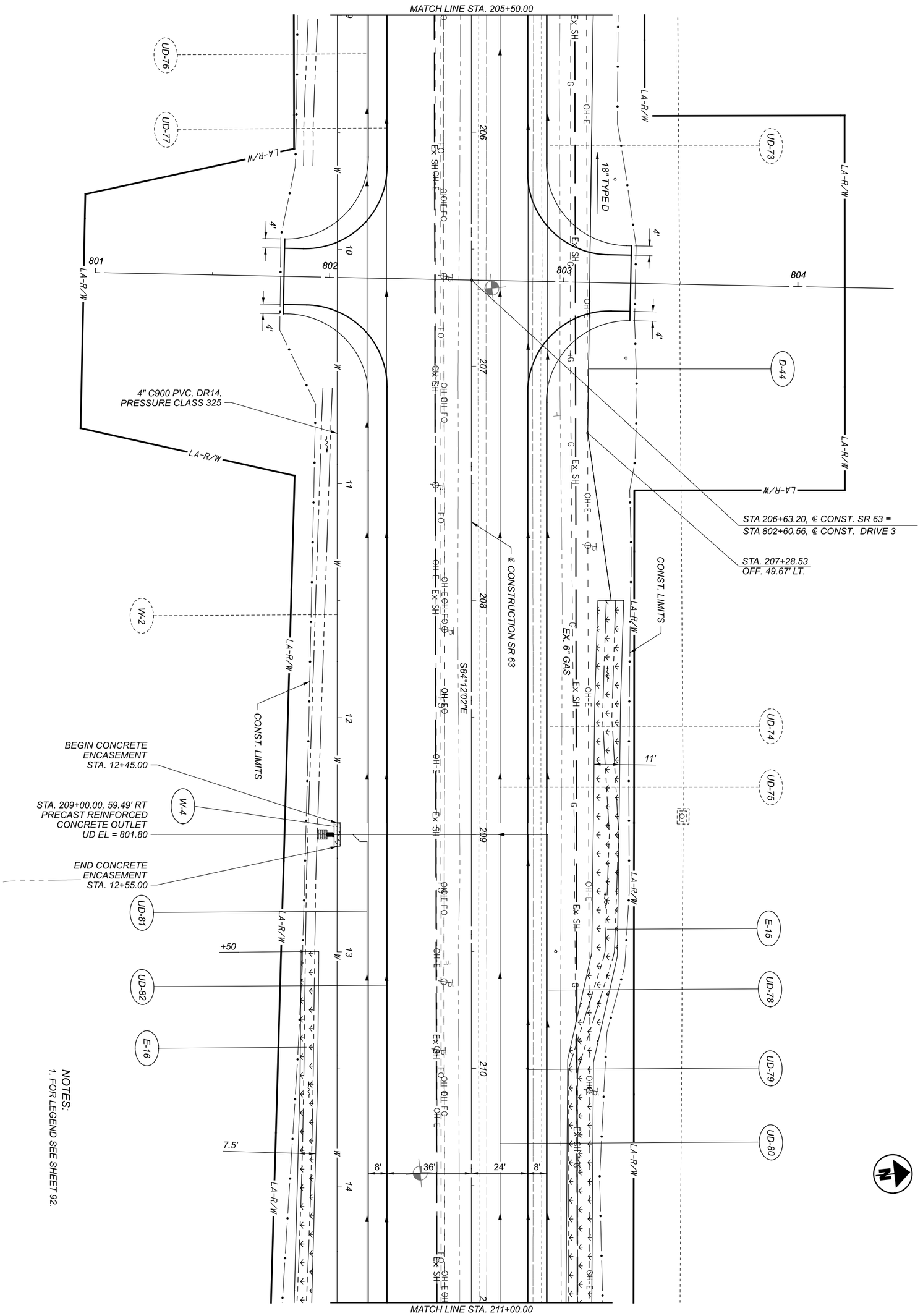


PLAN - SR 63
STA. 200+00.00 TO STA. 205+50.00

HORIZONTAL SCALE IN FEET
0 20
10 40

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 112 TOTAL 436
DESIGN AGENCY JACOBS

MODEL: CLP_SR63 - Plan 22 (Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 10:34 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn



NOTES:
1. FOR LEGEND SEE SHEET 92.

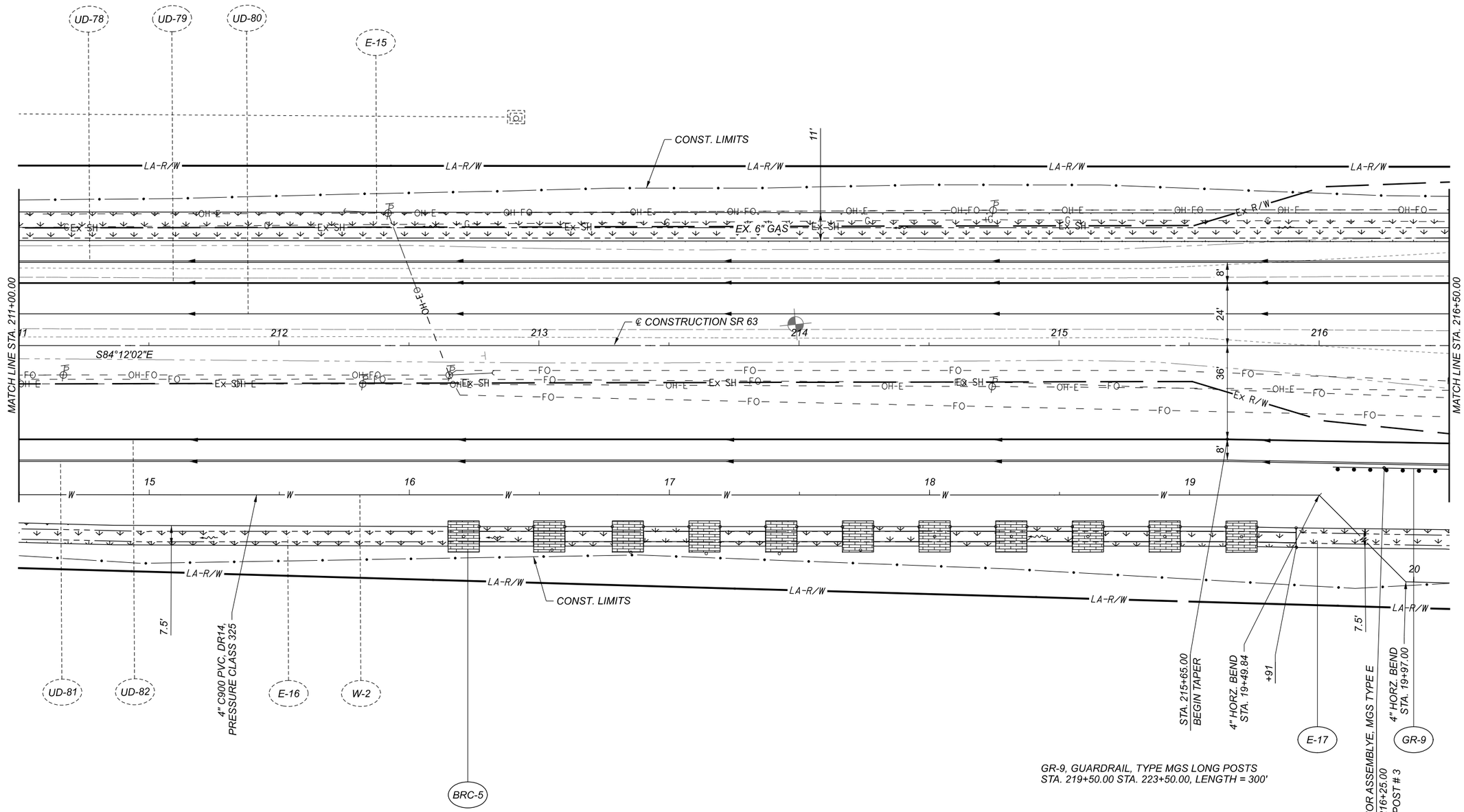
PLAN - SR 63
STA. 205+50.00 TO STA. 211+00.00

HORIZONTAL SCALE IN FEET
0 20
10 40

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 113 TOTAL 436
DESIGN AGENCY JACOBS

MODEL: CLP_SR63 - Plan 23 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 10:36 PM USER: Tahir.Sondo@Jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A8200 - SR 63 Reconstruction\Design\1212\N400-Engineering\Roadway\Sheets\1212L_GP100.dgn

WAR-63-0.83



GR-9, GUARDRAIL, TYPE MGS LONG POSTS
STA. 219+50.00 STA. 223+50.00, LENGTH = 300'

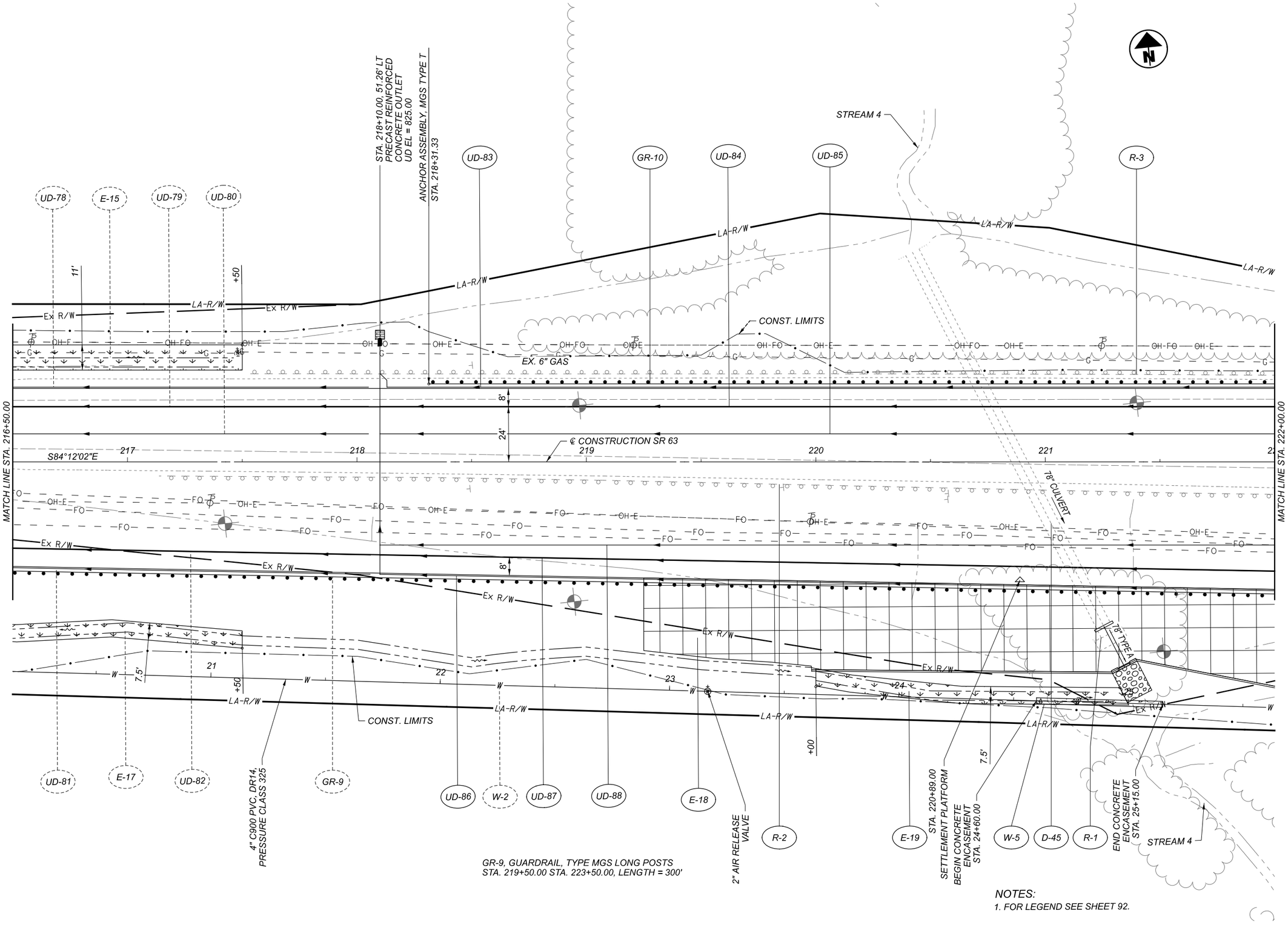
NOTES:
1. FOR LEGEND SEE SHEET 92.

HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN - SR 63
STA. 211+00.00 TO STA. 216+50.00

DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	114
TOTAL	436



NOTES:

1. FOR LEGEND SEE SHEET 92.

HORIZONTAL
SCALE IN FEET
0 10 20 40

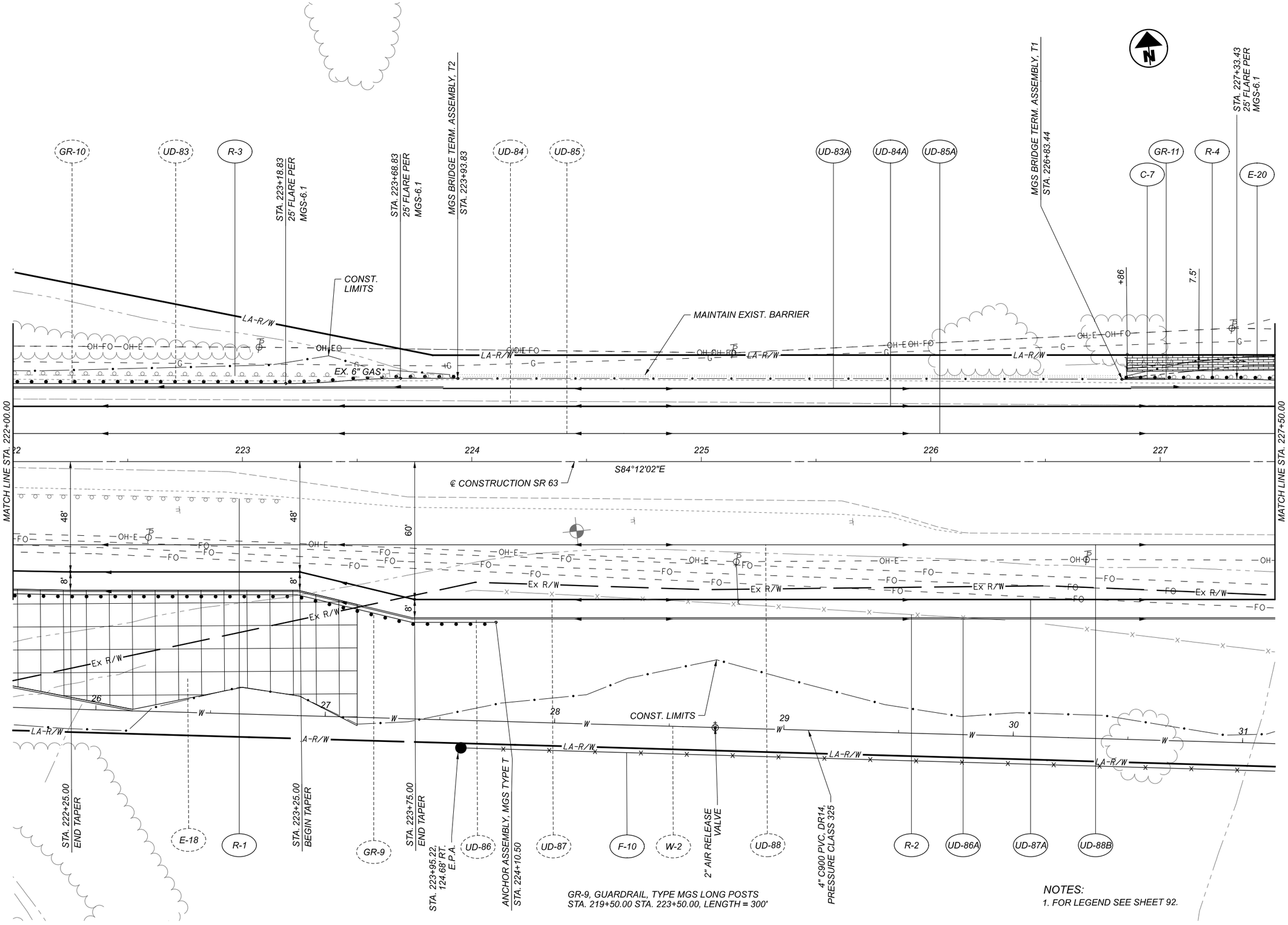
PLAN - SR 63
STA. 216+50.00 TO STA. 222+00.00

DESIGN AGENCY	JACOBS
DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	115
TOTAL	436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 24 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 10:37 PM USER: Tahir.Sondo@jacobs.com
pw:\\Project=WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn

MODEL: CLP_SR63 - Plan 2S (Sheet) PAPERSIZE: 17x11in) DATE: 8/23/2023 TIME: 10:39 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn



GR-9, GUARDRAIL, TYPE MGS LONG POSTS
STA. 219+50.00 STA. 223+50.00, LENGTH = 300'

NOTES:
1. FOR LEGEND SEE SHEET 92.

HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN - SR 63
STA. 222+00.00 TO STA. 227+50.00

DESIGN AGENCY
JACOBS

DESIGNER
MJA

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 116 TOTAL 436

PLAN - SR 63
STA. 227+50.00 TO STA. 233+00.00

HORIZONTAL SCALE IN FEET
0 10 20 40

WAR-63-0.83

MODEL: CLP_SR63 - Plan 26 [Sheet1] PAPERSIZE: ltxll (in.) DATE: 9/5/2023 TIME: 9:09:39 PM USER: rnunna
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn

GR-13, GUARDRAIL, TYPE MGS QUARTER POST
STA. 913+59.89 (SR 741) TO STA. 231+62.50 (SR 63)
LENGTH = 137.5'

GR-13, GUARDRAIL, TYPE MGS HALF POST
STA. 231+62.50 TO STA. 231+87.50, LENGTH = 25'

GR-13, GUARDRAIL, TYPE MGS LONG POSTS
STA. 233+50.00 TO STA. 235+00.00, LENGTH = 150'

MATCH LINE STA. 914+00.00, SEE SHEET 125

MATCH LINE STA. 911+00.00, SEE SHEET 124

MATCH LINE STA. 227+50.00

MATCH LINE STA. 233+00.00

PI 227+51.14
DEFLECTION = 0°03'46" LT.
NO CURVE

STA. 227+83.44
25' FLARE PER
MGS-6.1

ANCHOR ASSEMBLY, TYPE E
STA. 228+20.94
LON. POST # 3

ANCHOR ASSEMBLY, MGS TYPE E
STA. 227+89.43
LON. POST # 3

ANCHOR ASSEMBLY, MGS
TYPE T, STA. 913+72.32

STA. 913+55.07
44.32' RT.
BEGIN TAPER

16" X 16"
TAPPING SLEEVE

16" GATE
TAPPING VALVE
W/VALVE BOX

16" 90° HORZ.
BEND
STA. 2+87.48

STA. 231+04.07
41.32' LT.
BEGIN TAPER

BEGIN 24"
CASING PIPE
STA. 2+67.45

STA. 231+57.29
END TAPER

16" DUCTILE IRON
AWWA C-151, CLASS 52

STA. 228+59.09
60.00' RT.
BEGIN TAPER

STA. 228+91.03, 100.83' RT
PRECAST REINFORCED
CONCRETE OUTLET
UD EL = 833.00

STA. 229+11.63
65.37' RT.
END TAPER

STA. 229+29.65,
140.20' RT.
C.P.A.

STA. 911+21.04
20.39' LT.
END TAPER

STA 230+00.52, ℄ CONST. SR 63 =
STA 912+54.49, ℄ CONST. SR 741

℄ CONSTRUCTION SR 741

℄ CONSTRUCTION SR 63

S84°15'48"E

4" C900 PVC,
DR14, PRESSURE
CLASS 325

BEGIN 10"
CASING PIPE
STA. 32+75.00

END 10"
CASING PIPE
STA. 34+35.00

16"X4" TEE
STA. 0+65.29

BEGIN 24"
CASING PIPE
STA. 1+29.51

ANCHOR ASSEMBLY, MGS TYPE E
STA. 231+25.00
LON. POST # 3

15" CPP

15" RCP

24" TYPE B

EX. 4" GAS

EX. 6" GAS

EX. 8" GAS

EX. 16" WM

EX. 12" WM

TMP

CONST. LIMITS

SAWCUT

UD-83A GR-11 UD-85A UD-84A E-20 D-46 UD-102 E-21 UD-103 GR-13 UD-104 R-4

F-10 R-2 UD-101 UD-100 W-9 W-8 W-7 W-6 UD-86A W-2 UD-87A UD-88B GR-16 R-1 UD-98A R-3 UD-88A UD-98B UD-89 GR-12

A. BEGIN 10" CASING PIPE STA. 32+75.00
B. 16" 45° HORZ. BEND STA. 0+56.29
C. LARGE DOMESTIC WATER METER PIT

NOTES:
1. FOR LEGEND SEE SHEET 92.

DESIGN AGENCY
JACOBS

DESIGNER
MJA

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 117 TOTAL 436

GR-13, GUARDRAIL, TYPE MGS QUARTER POST
STA. 913+59.89 (SR 741) TO STA. 231+62.50 (SR 63),
LENGTH = 137.5'

GR-13, GUARDRAIL, TYPE MGS HALF POST
STA. 231+62.50 TO STA. 231+87.50, LENGTH = 25'

GR-13, GUARDRAIL, TYPE MGS LONG POSTS
STA. 233+50.00 TO STA. 235+00.00, LENGTH = 150'

PI 233+09.37
DEFLECTION =0°28'07" LT.
NO CURVE

STA. 235+00.00, 56.53' LT
PRECAST REINFORCED
CONCRETE OUTLET
UD EL = 833.00

STA. 235+50.00
BEGIN TAPER

STA. 236+00.00
END TAPER

STA. 237+00.00
24.00' LT.

MEET EXISTING
STA. 237+23.52

ANCHOR ASSEMBLY, MGS TYPE E
STA. 237+75.00
LON, POST # 3

E-22 UD-102 R-3 UD-103 UD-104 E-23 UD-90 UD-91 E-24 R-4 GR-13 UD-92 UD-93

CONST. LIMITS
EX. 12" WM
LA-R/W
Ex R/W
7.5'
+00
+20
11'
54" TYPE A
54" CMP
8.0'
36.0'
36"
24'
9.7±
18.4±
+25
SAWCUT
OH-E
FO
G
W

MATCH LINE STA. 233+00.00

233 234 235 236 237 238

S84°43'55"E
℄ CONSTRUCTION SR 63

MATCH LINE STA. 238+00.00

48.0'
EX. 4" GAS
℄

BEGIN PAVEMENT TAPER
STA. 233+09.37, 48.00' RT

GR-12 UD-98 UD-99 E-25 UD-88A UD-89 E-26 STREAM 6 R-1 STA. 234+50 SETTLEMENT PLATFORM D-47 E-27 STA. 235+25.00, 70.80' RT PRECAST REINFORCED CONCRETE OUTLET UD EL = 832.00 R-2 ANCHOR ASSEMBLY, MGS TYPE T STA. 235+62.50 UD-94 E-28 UD-95 UD-96

+50

NOTES:
1. FOR LEGEND SEE SHEET 92.

HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN - SR 63
STA. 233+00.00 TO STA. 238+00.00

DESIGN AGENCY
JACOBS

DESIGNER
MJA

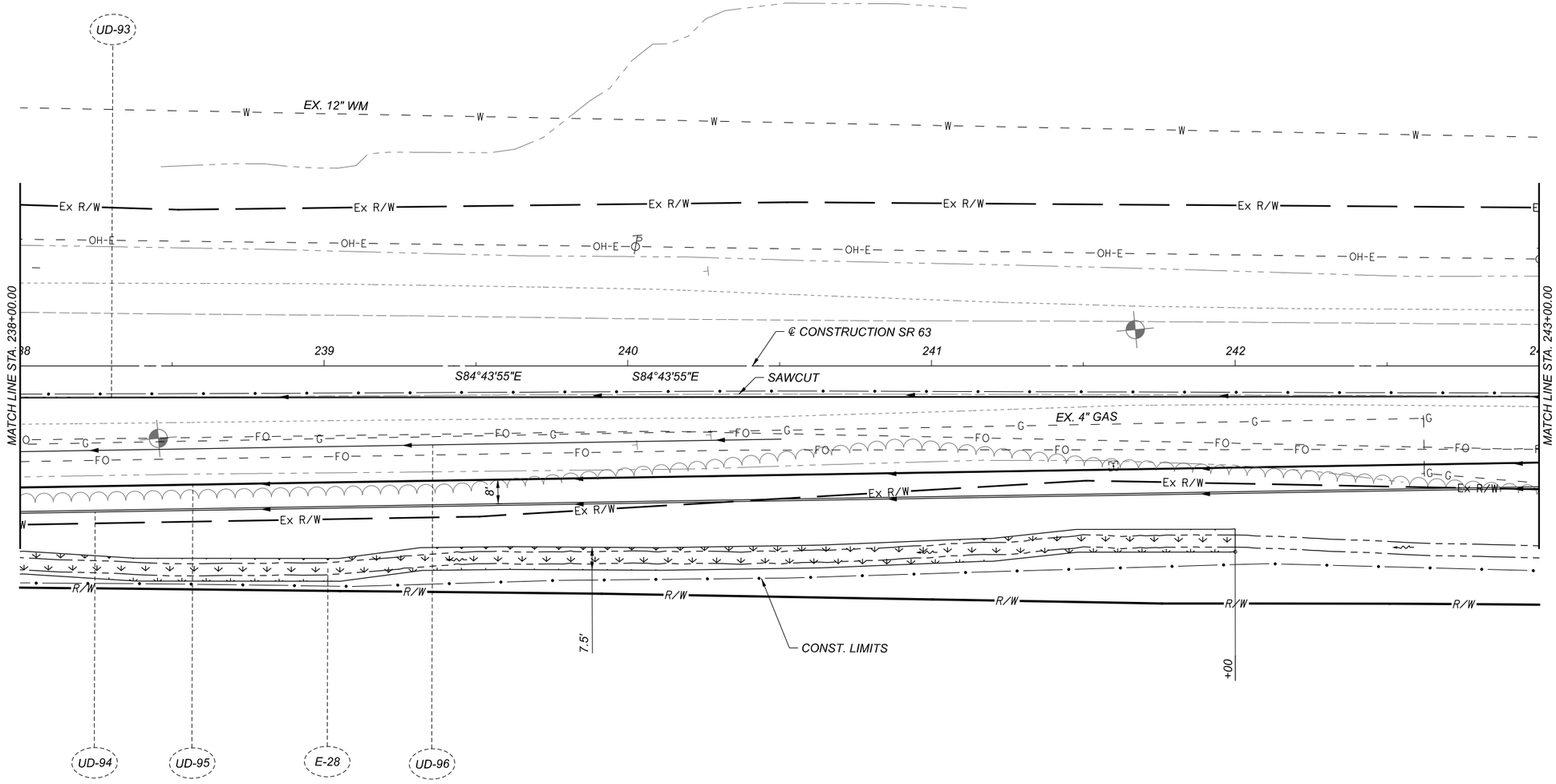
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 118 TOTAL 436

WAR-63-0.83

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NOTES:
1. FOR LEGEND SEE SHEET 92.

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN - SR 63
STA. 238+00.00 TO STA. 243+00.00

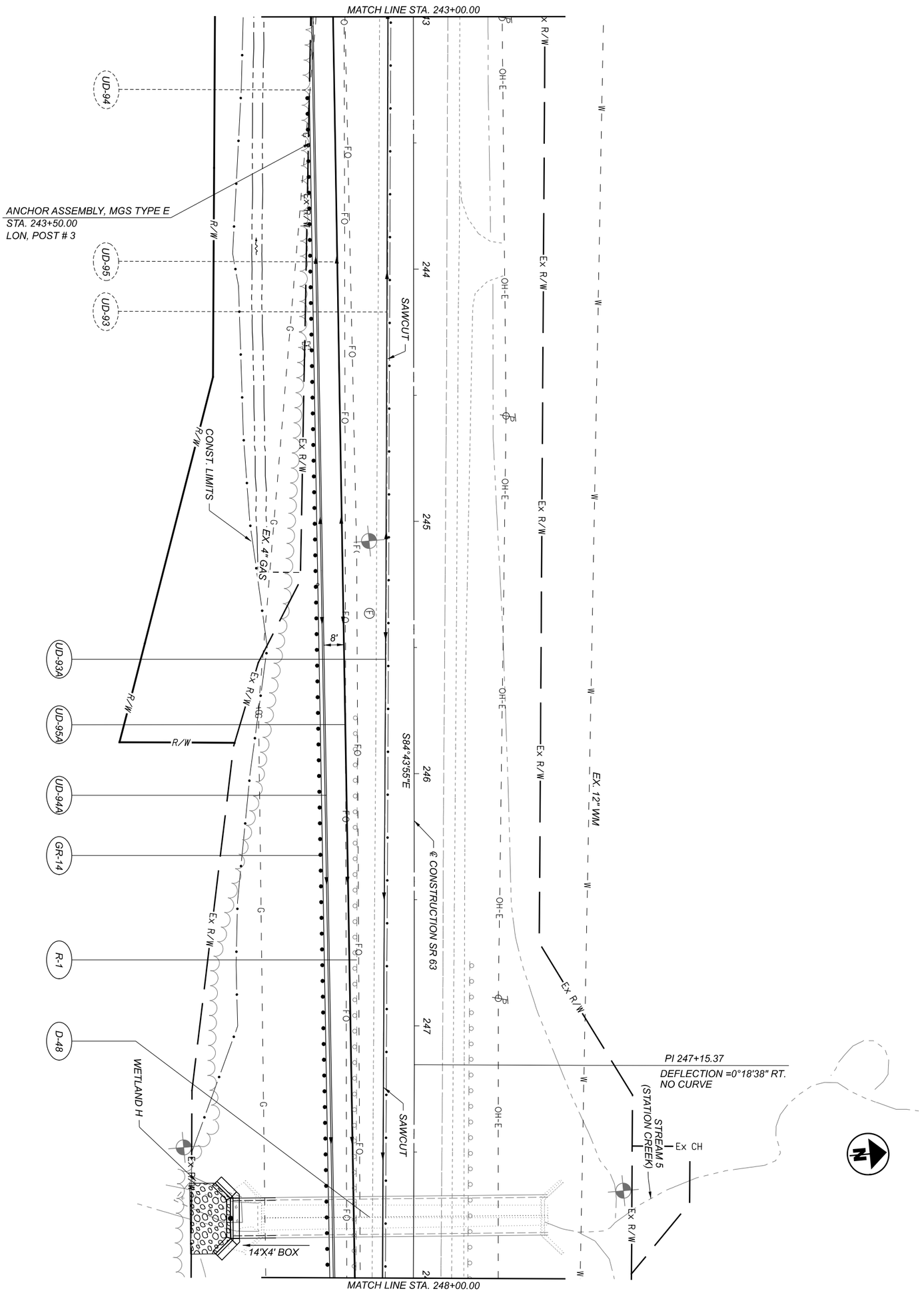
DESIGN AGENCY
JACOBS

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 119 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 2B [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 10:46 PM USER: Tahir.Sondo@jacobs.com
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MODEL: CLP_SR63 - Plan 29 (Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 10:48 PM USER: Tahir.Sondo@jacobs.com
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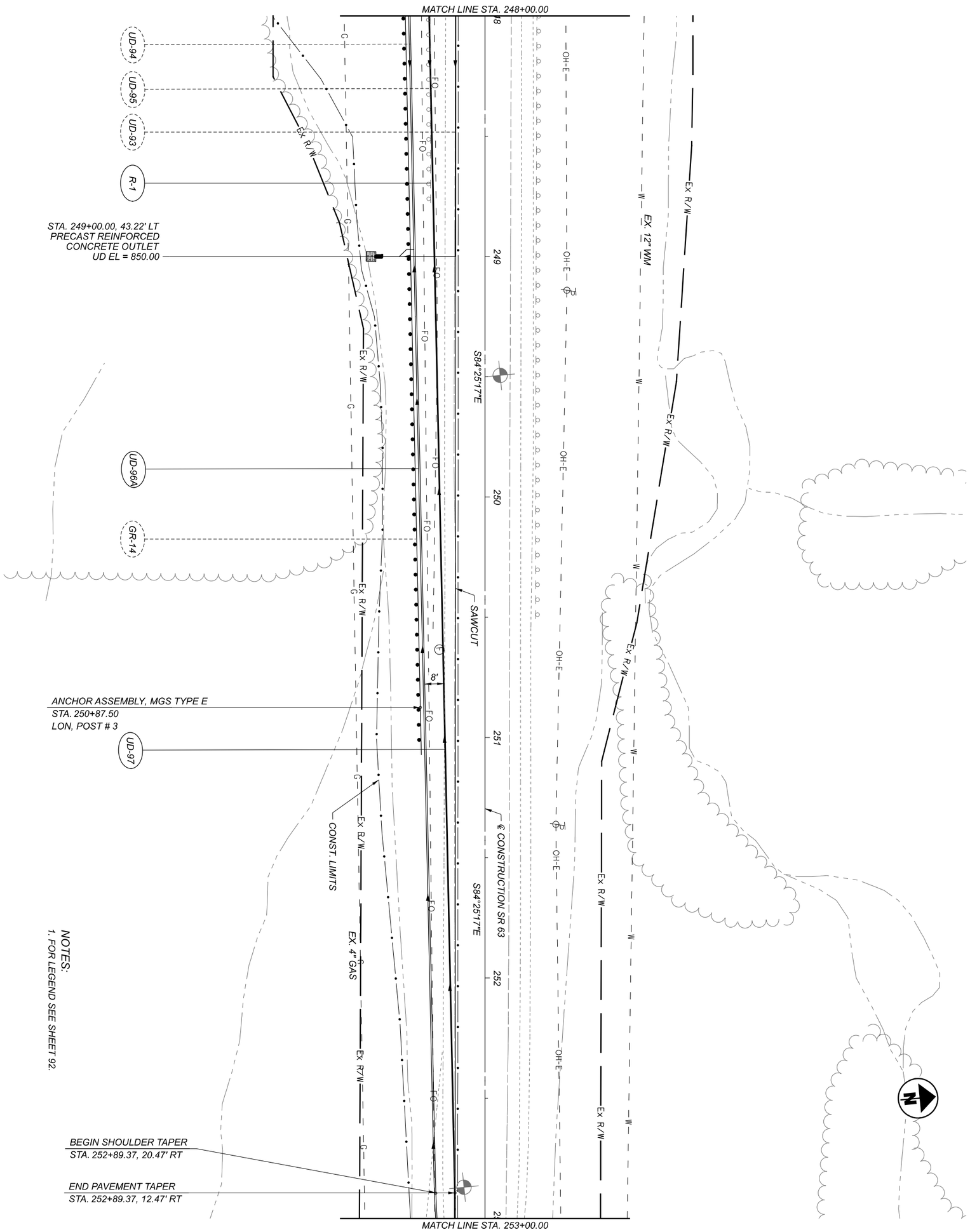
NOTES:
1. FOR LEGEND SEE SHEET 92.

PLAN - SR 63
STA. 243+00.00 TO STA. 248+00.00

HORIZONTAL SCALE IN FEET
0 20
10 40

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 120 TOTAL 436
DESIGN AGENCY JACOBS

MODEL: CLP_SR63 - Plan 30 [Sheet] PAPERSIZE: 17x11(In.) DATE: 8/23/2023 TIME: 10:50 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn



NOTES:
1. FOR LEGEND SEE SHEET 92.

PLAN - SR 63
STA. 248+00.00 TO STA. 253+00.00

HORIZONTAL SCALE IN FEET
0 20
10 40

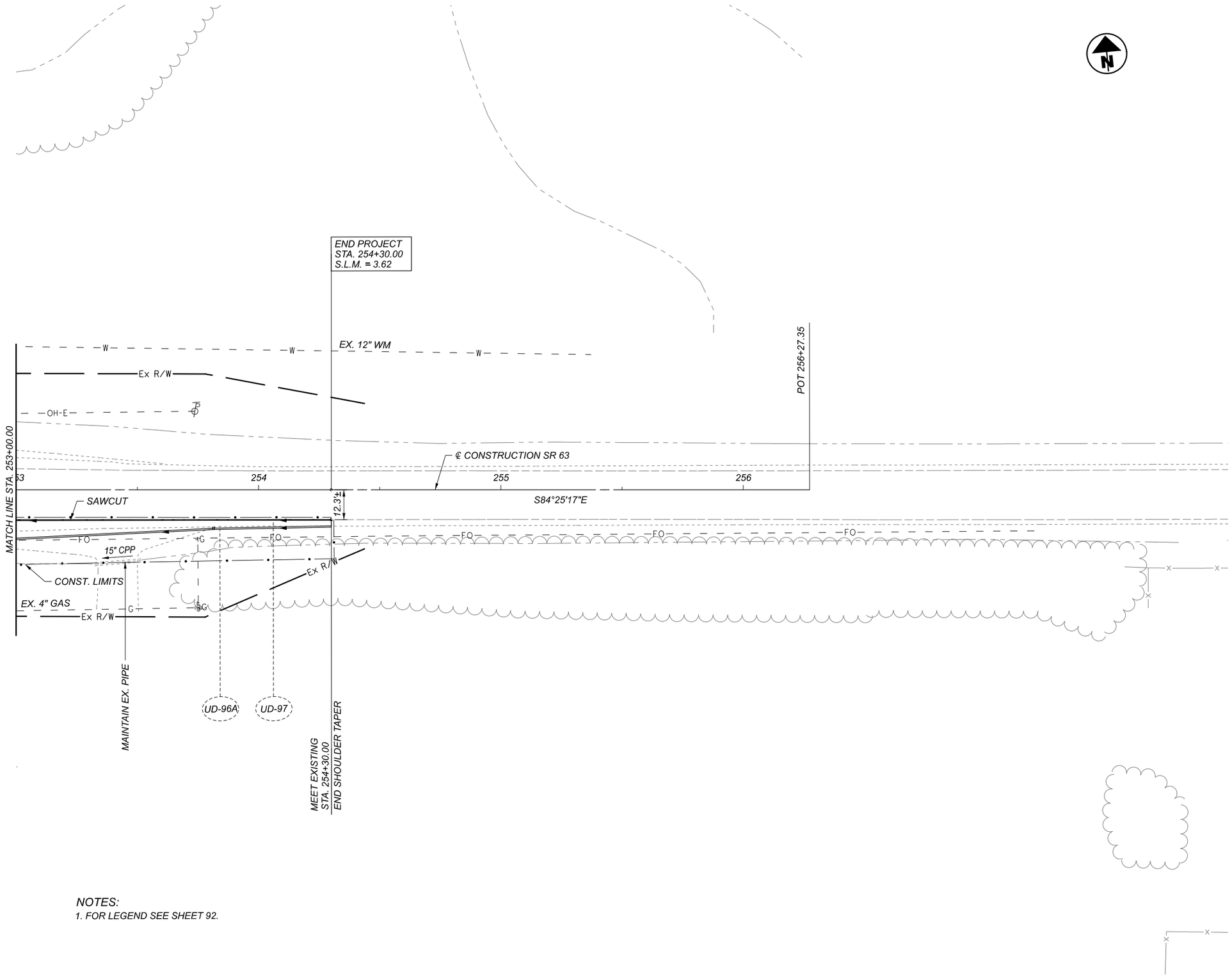
SHEET	TOTAL
121	436

PROJECT ID: 112121

REVIEWER: RN 08/22/23

DESIGNER: MJA

DESIGN AGENCY: JACOBS



NOTES:
1. FOR LEGEND SEE SHEET 92.

HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN - SR 63
STA. 253+00.00 TO STA. 256+27.35

DESIGN AGENCY
JACOBS

DESIGNER
MJA

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 122 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 3i[Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 10:05:PM USER: Tahir.Sondo@jacobs.com
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MODEL: CLP_SR74IF - Plan (Sheet) PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:02:12 PM USER: Tahir.Sondo@Jacobs.com
pw:\\ProjectWiseAMER.Jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP200.dgn

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN - SR 741
STA. 901+50.00 TO STA. 906+00.00

EROSION PROTECTION LEGEND:

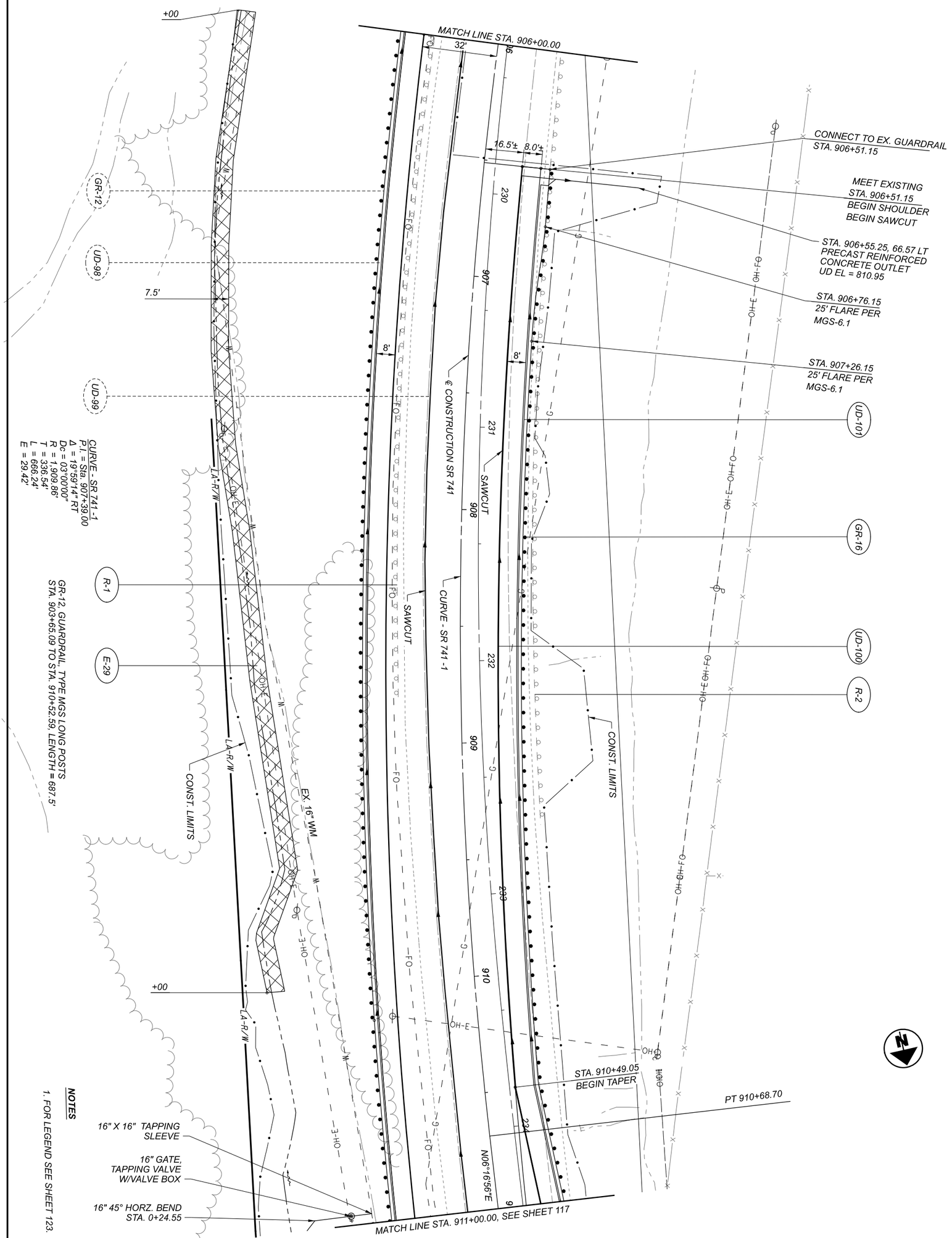
- ITEM 670 - DITCH EROSION
- ITEM 670 - SLOPE EROSION PROTECTION
- ITEM 601 - TIED CONCRETE BLOCK MAT
- ITEM 601 - ROCK CHANNEL PROTECTION
- SS 836 - SEEDING AND EROSION CONTROL WITH TURF REINFORCEMENT MAT

CURVE - SR 741 -1
P.I. = Sta. 907+39.00
Δ = 19°59'14" RT
Dc = 03°00'00"
R = 1,909.86'
T = 336.54'
L = 666.24'
E = 29.42'

GR-12, GUARDRAIL, TYPE MGS LONG POSTS
STA. 903+65.09 TO STA. 910+52.59, LENGTH = 687.5'

DESIGN AGENCY	JACOBS
DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	123
TOTAL	436

MODEL: CLP_SR74IF - Plan 2 (Sheet) PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:02:13 PM USER: Tahir.Sondo@jacobs.com
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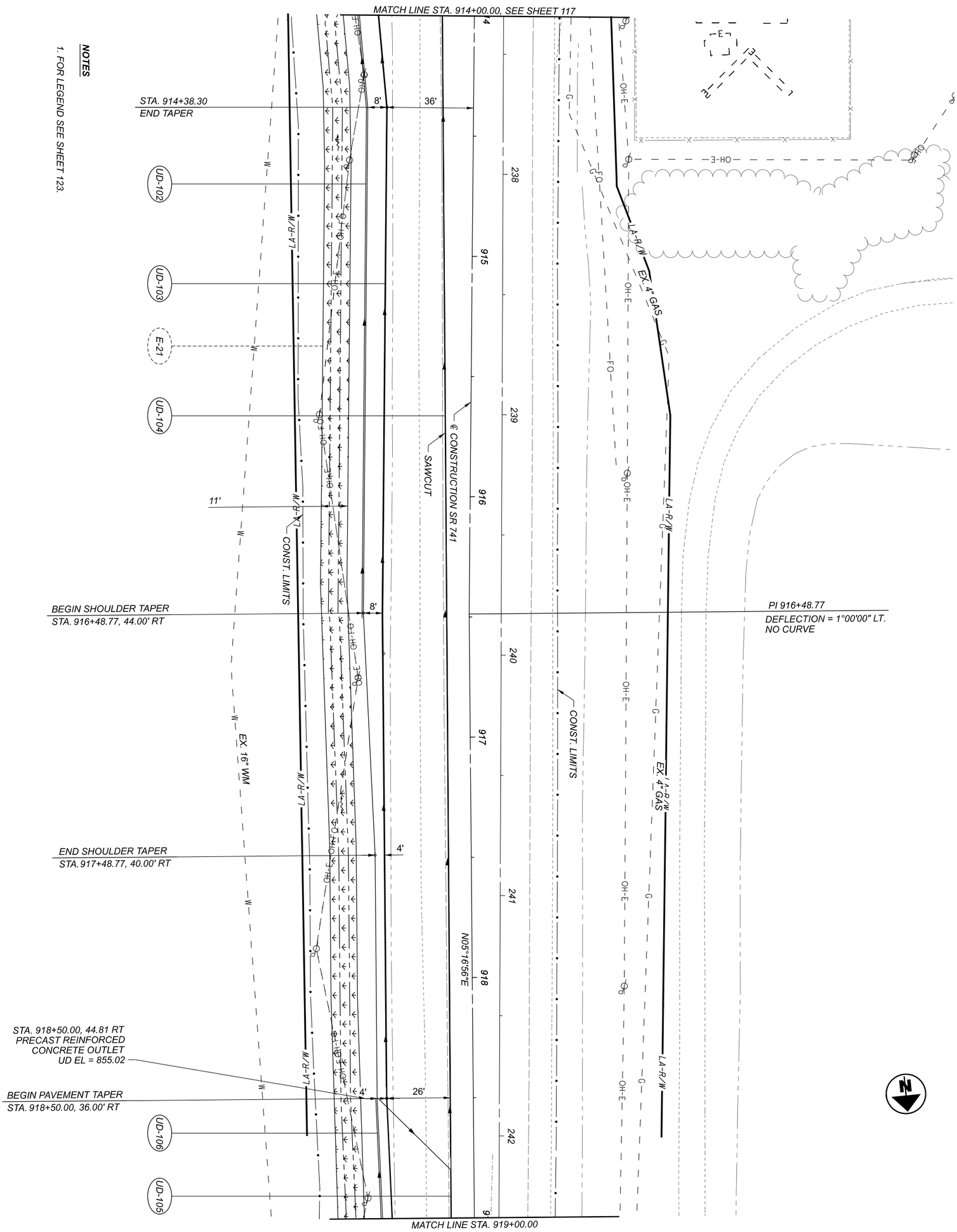


SHEET 124 / TOTAL 436	PROJECT ID 112121	DESIGNER MJA / REVIEWER RN 08/22/23	DESIGN AGENCY JACOBS

PLAN - SR 741
STA. 906+50.00 TO STA. 911+00.00

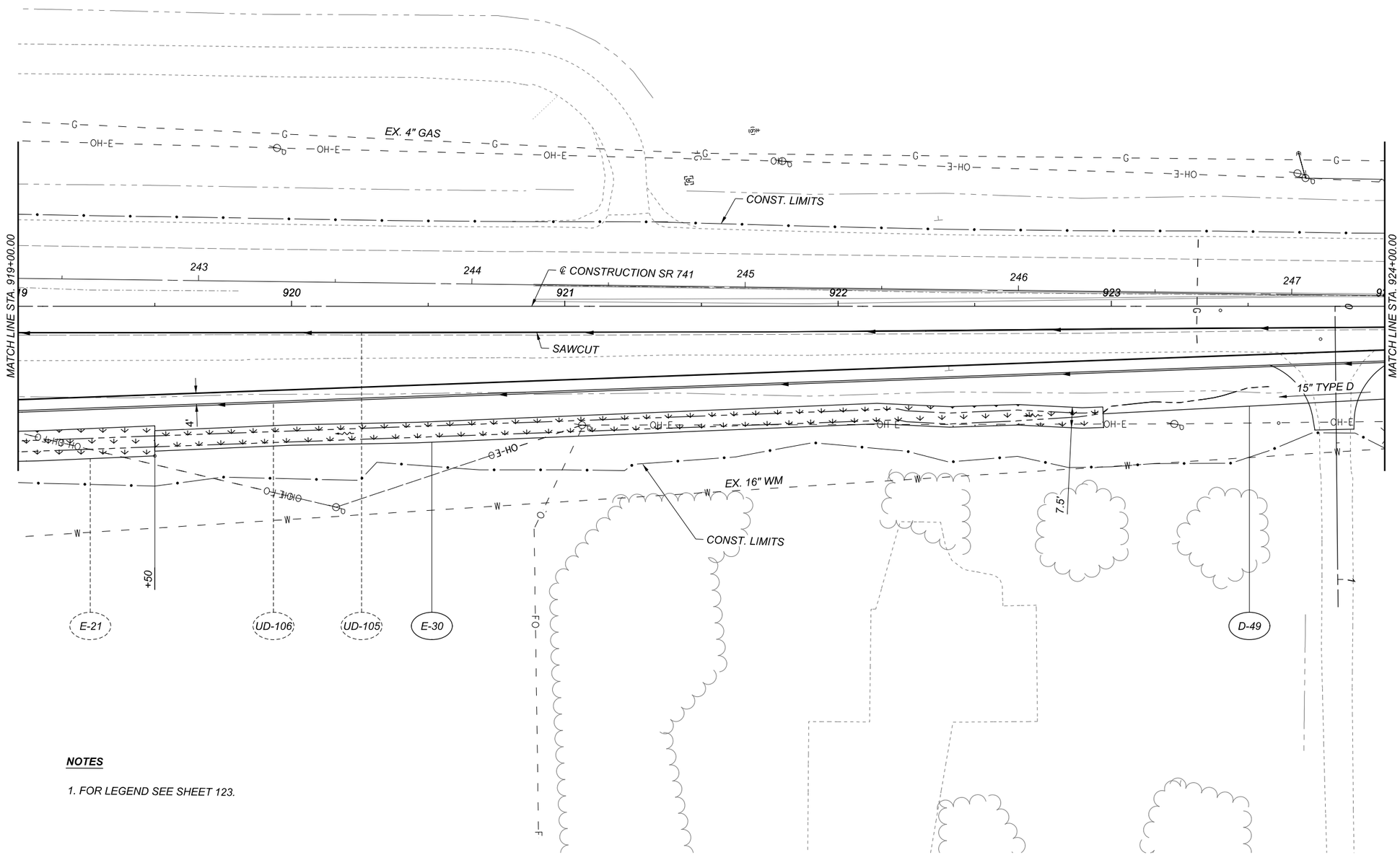
HORIZONTAL SCALE IN FEET
0 20
10 40

MODEL: CLP_SR741F - Plan 3 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:02:15 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6AI8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP200.dgn



SHEET 125 / TOTAL 436	PROJECT ID 112121	DESIGNER MJA / REVIEWER RN 08/22/23	JACOBS	DESIGN AGENCY	PLAN - SR 741 STA. 914+00.00 TO STA. 919+00.00

HORIZONTAL SCALE IN FEET
0 20
10 40



NOTES

1. FOR LEGEND SEE SHEET 123.

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN - SR 741
STA. 919+00.00 TO STA. 924+00.00

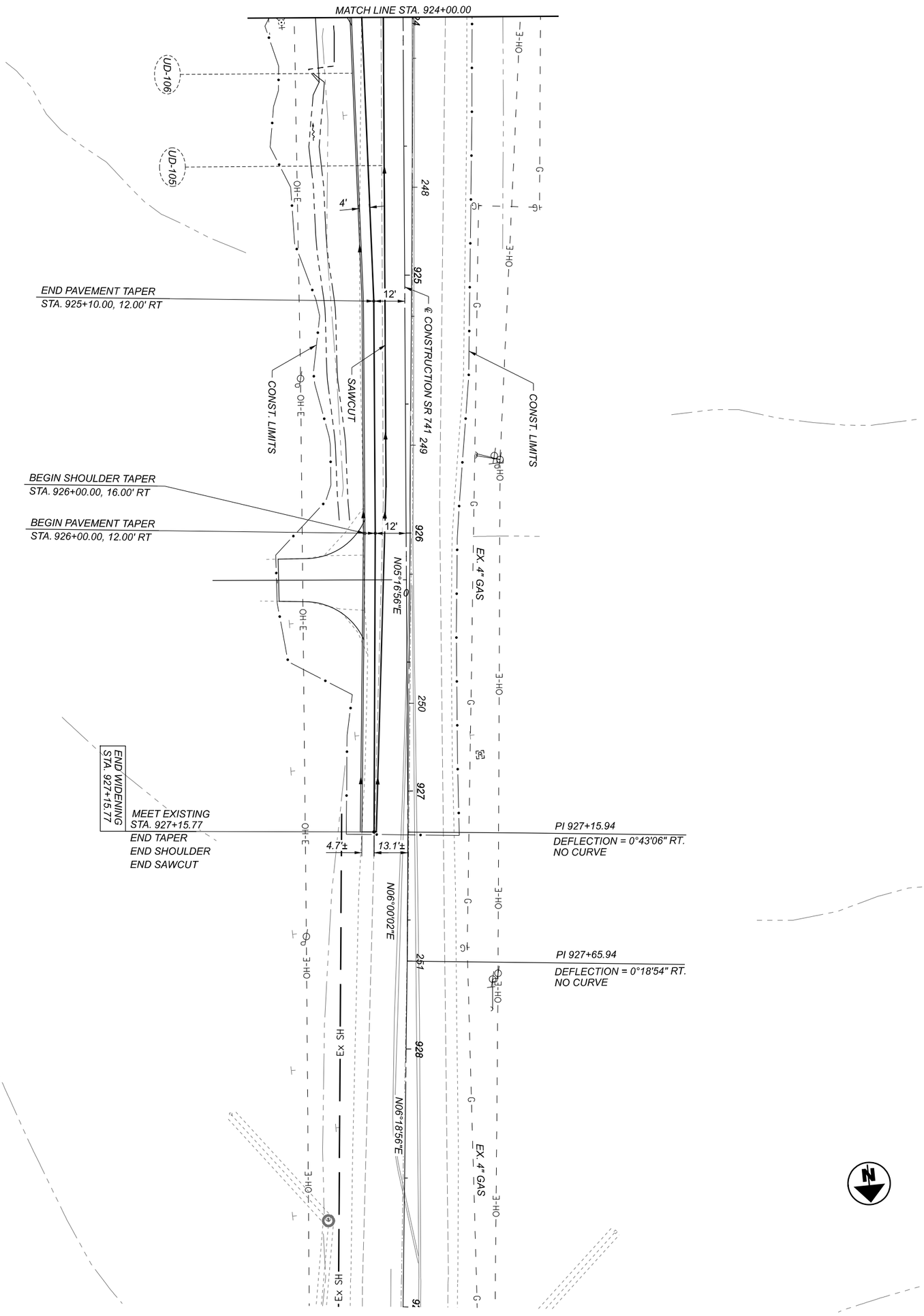
DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	126
TOTAL	436

WAR-63-0.83

MODEL: CLP_SR74IF - Plan 4 (Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:02:16 PM USER: Tahir.Sondo@Jacobs.com
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MODEL: CLP_SR741F - Plan 5 (Sheet) PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 1:02:17 PM USER: Tahir.Sondo@jacobs.com
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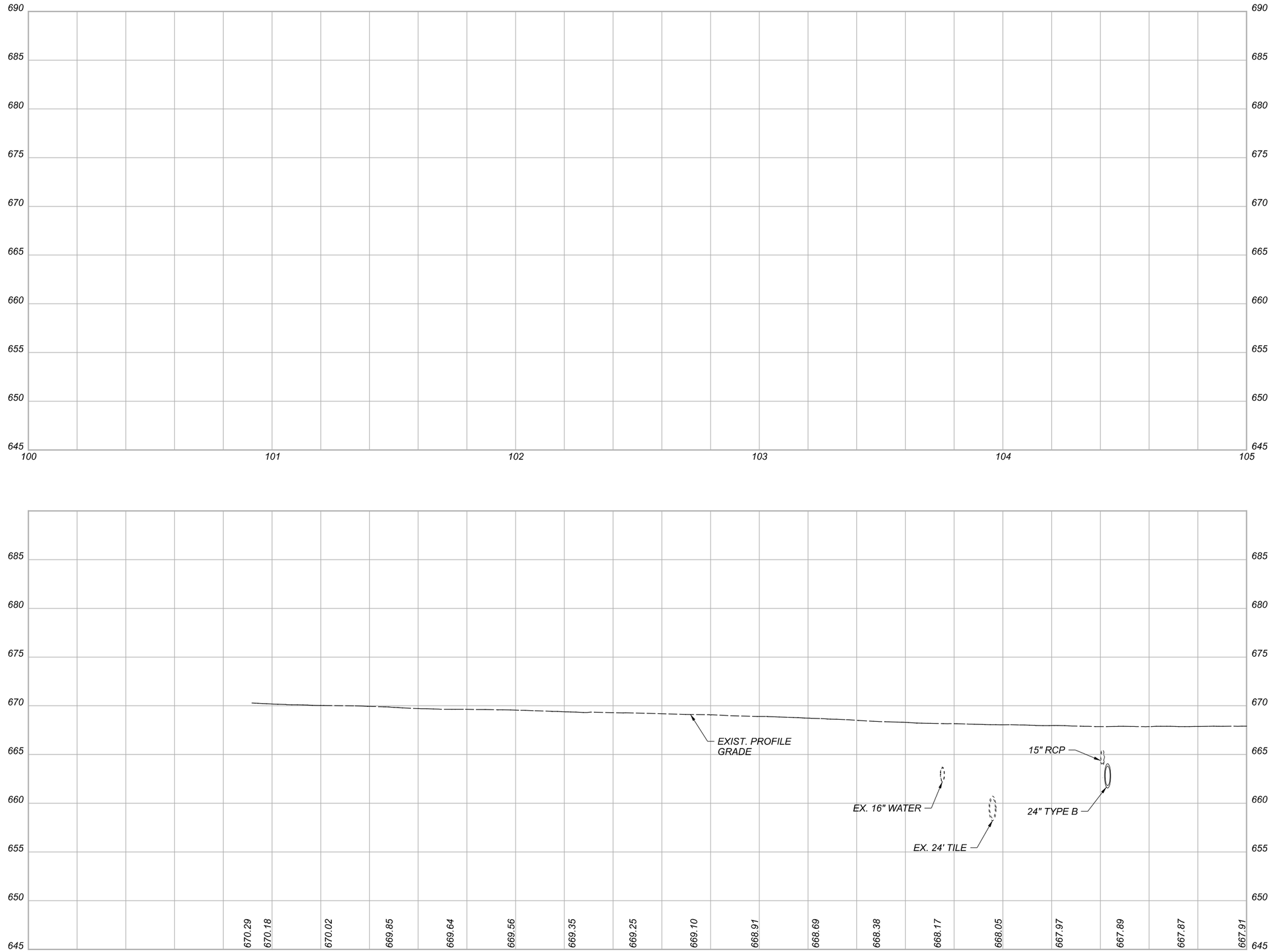
NOTES

1. FOR LEGEND SEE SHEET 123.

SHEET 127 / TOTAL 436	PROJECT ID 112121	REVIEWER RN 08/22/23	DESIGNER MJA	DESIGN AGENCY JACOBS

PLAN - SR 741
STA. 924+00.00 TO STA. 929+00.00

HORIZONTAL SCALE IN FEET
0 20
10 40



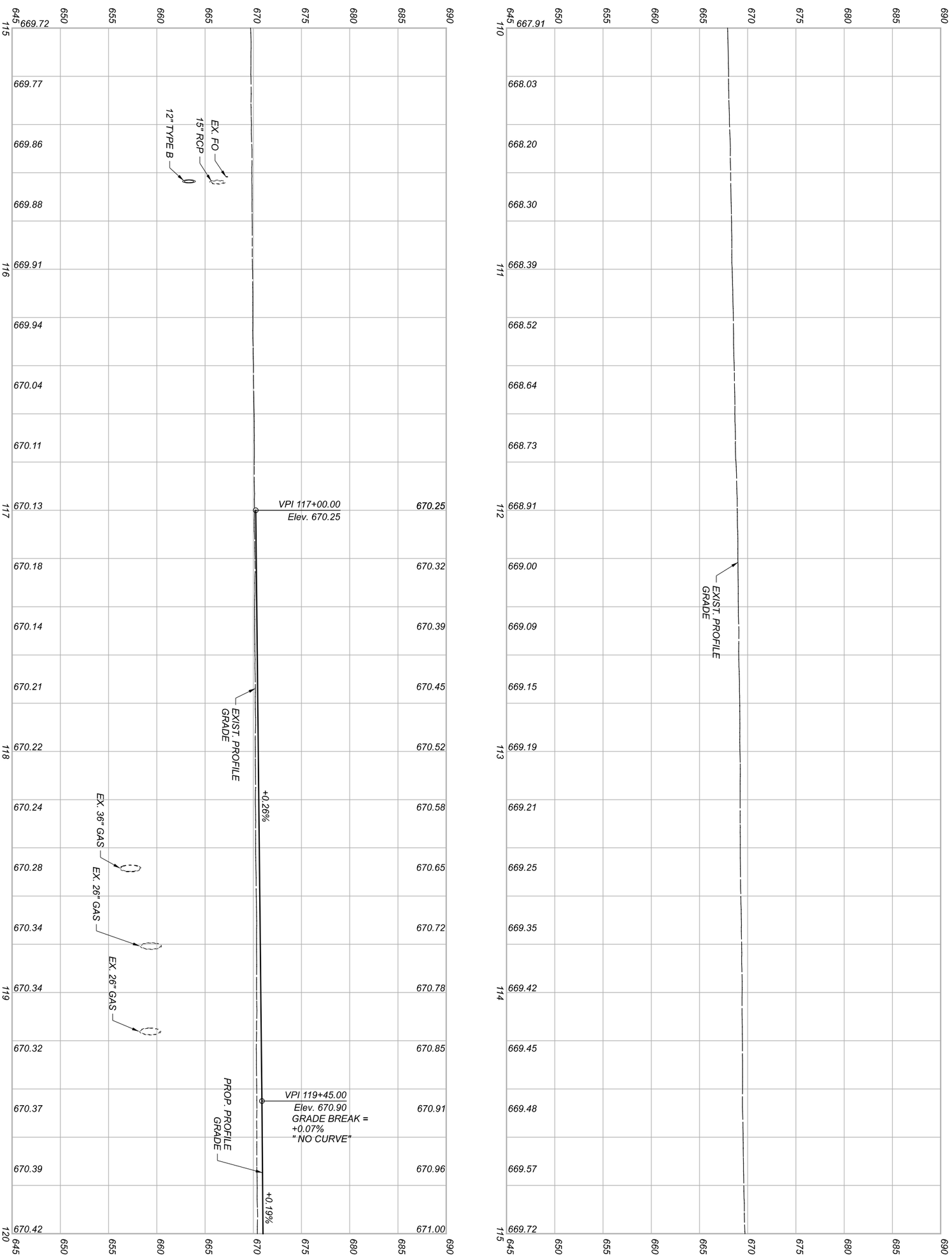
PROFILE - SR 63
STA. 100+00.00 TO STA. 110+00.00

WAR-63-0.83

MODEL: CLP_SR63 - Profile 1[Sheet] PAPERSIZE: 17x11(in) DATE: 8/23/2023 TIME: 02:46 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn

DESIGN AGENCY	JACOBS
DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	128
TOTAL	436

MODEL: CLP_SR63 - Profile 3 (Sheet) PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 10:58 PM USER: Tahir.Sondo@jacobs.com
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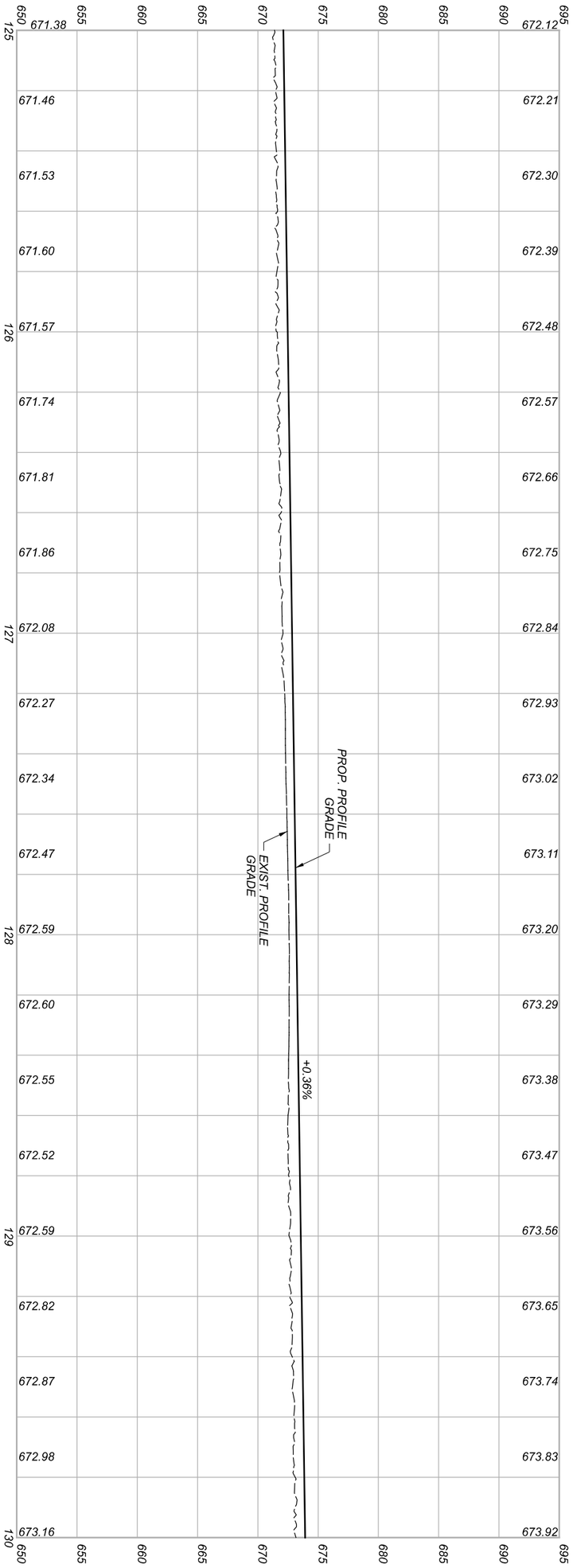
DESIGNER MJA	REVIEWER RN 08/22/23	PROJECT ID 112121	SHEET 129 TOTAL 436

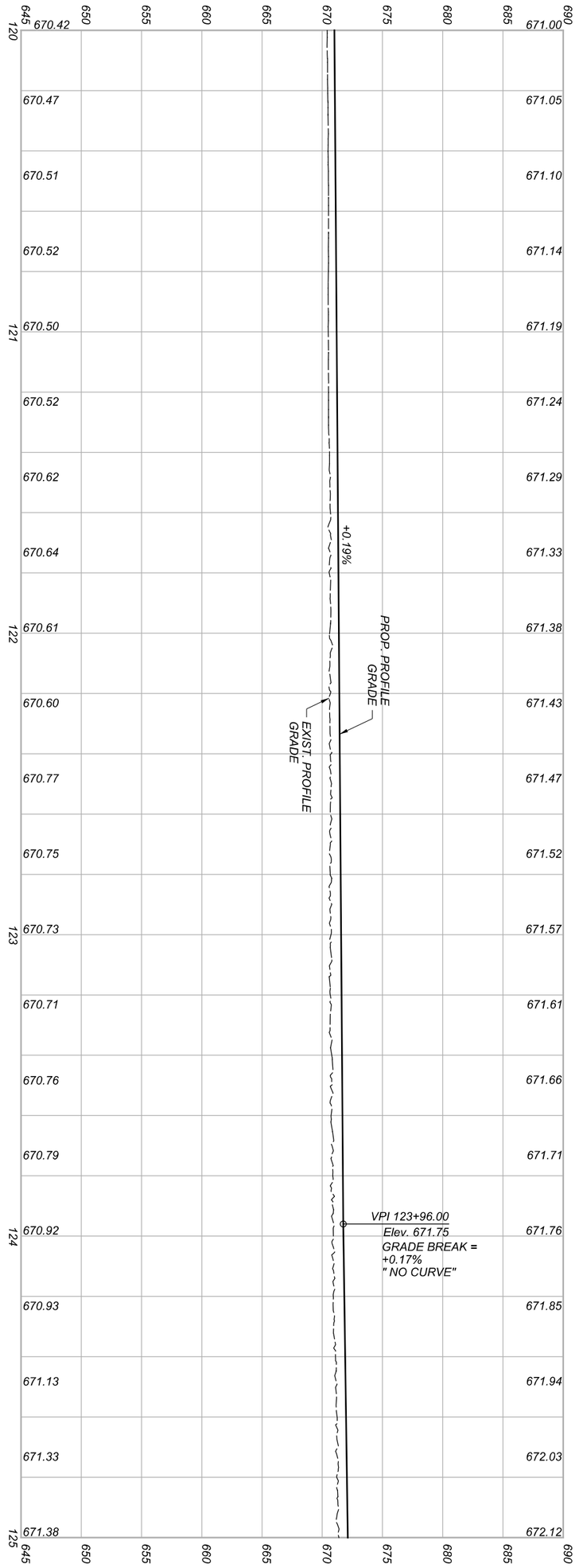
JACOBS

DESIGN AGENCY

PROFILE - SR 63
STA. 110+00.00 TO STA. 120+00.00

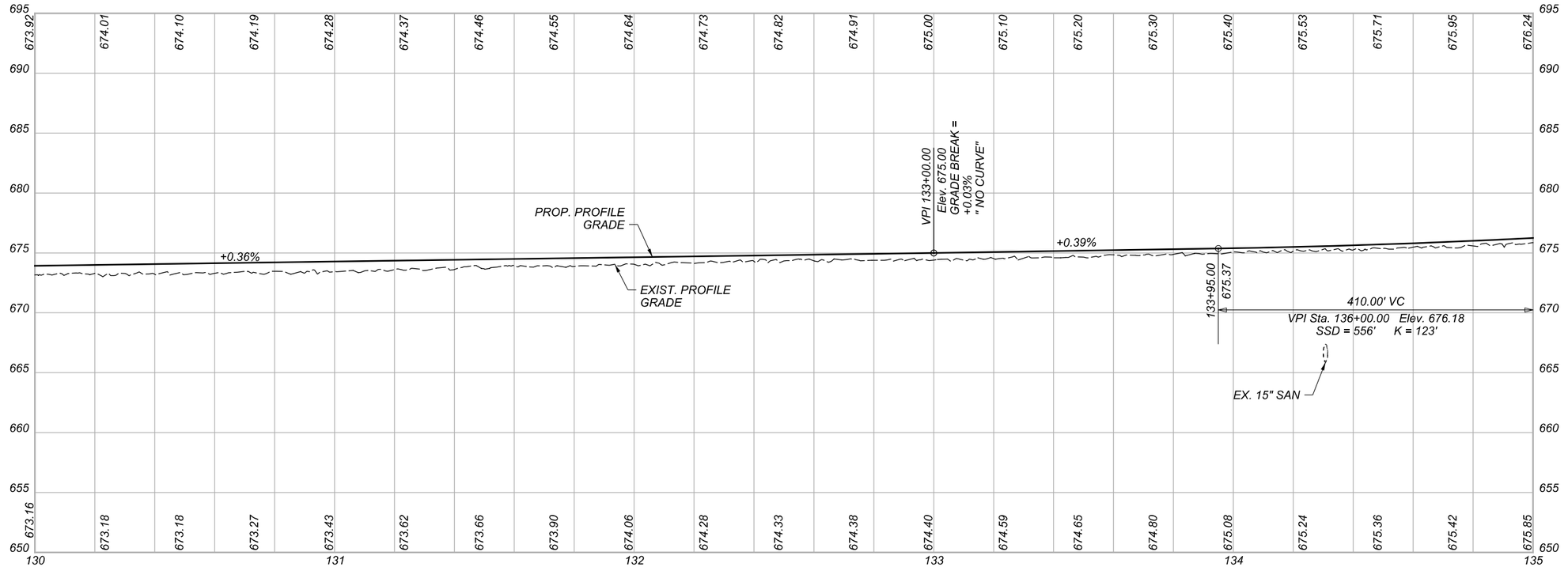
MODEL: CLP_SR63 - Profile 5 (Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:03:10 PM USER: Tahir.Sondo@jacobs.com
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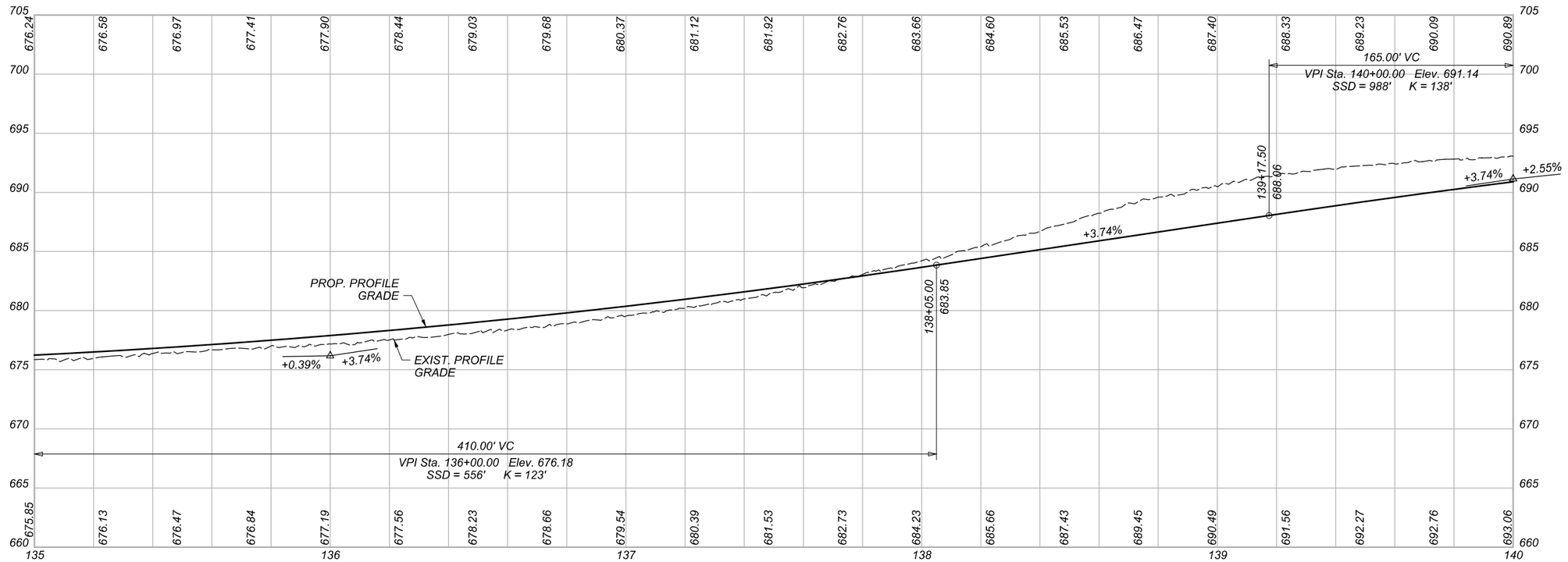




SHEET 130 / TOTAL 436	PROJECT ID 112121	DESIGNER MJA REVIEWER RN 08/22/23	JACOBS DESIGN AGENCY

PROFILE - SR 63
STA. 120+00.00 TO STA. 130+00.00



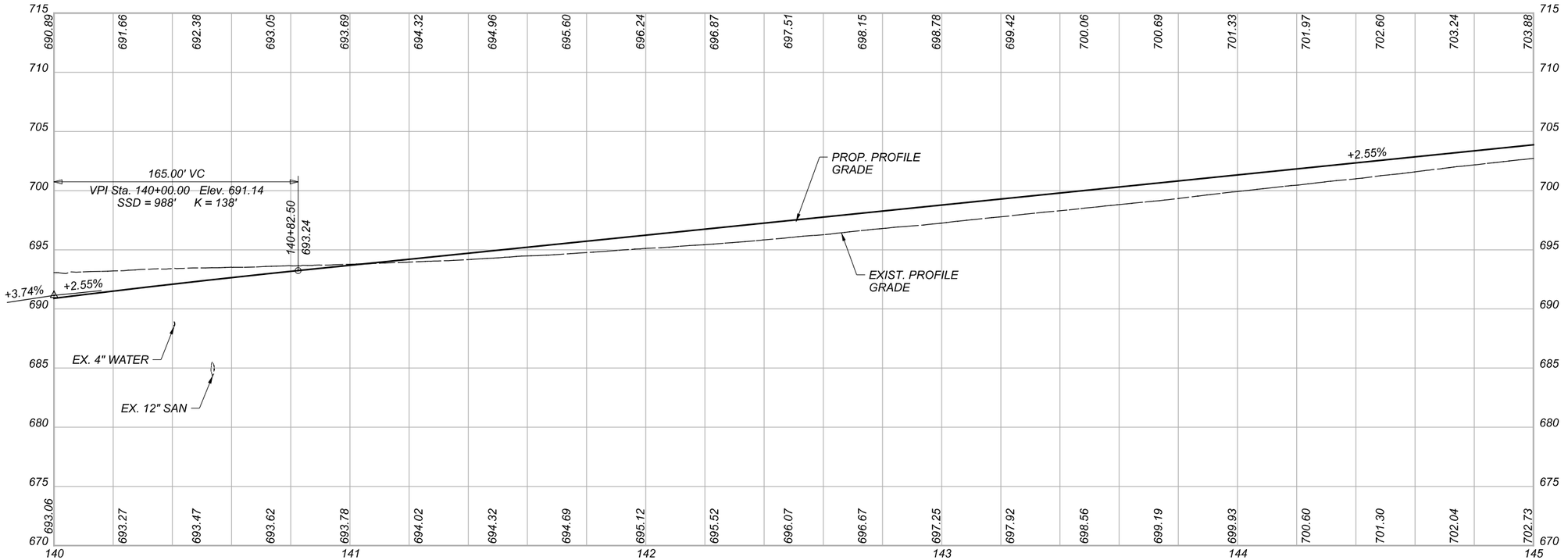


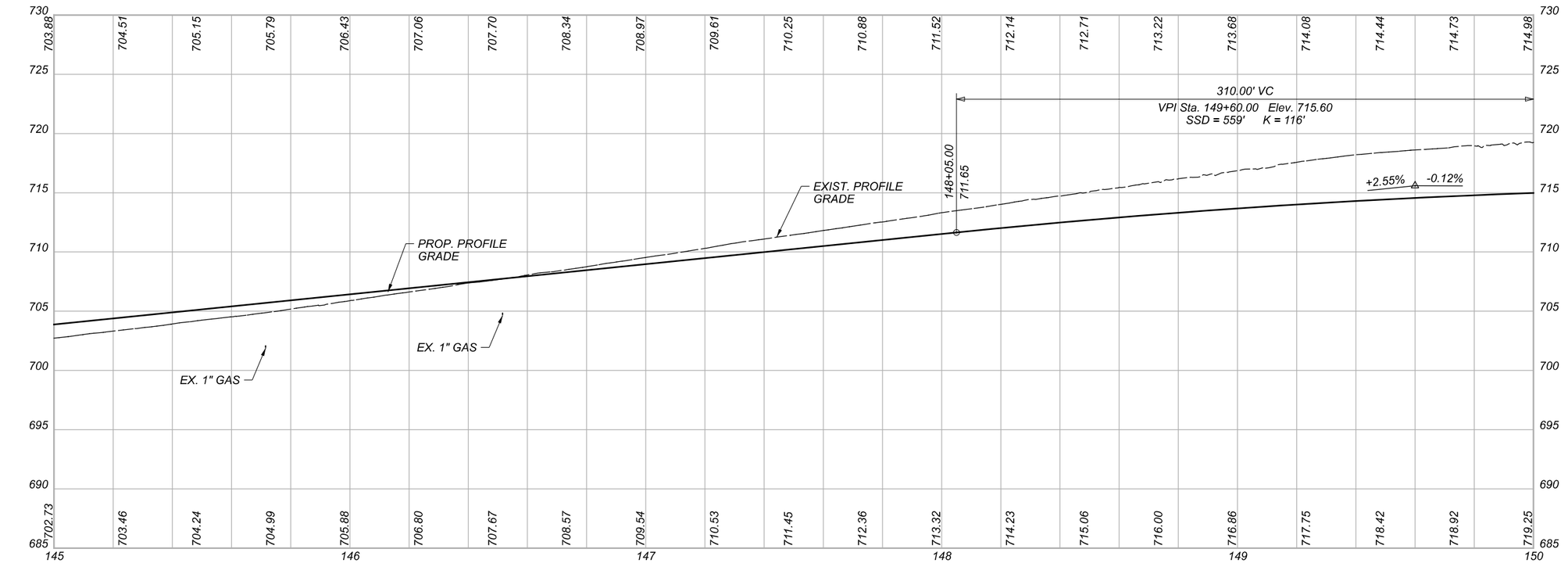
PROFILE - SR 63
STA. 130+00.00 TO STA. 140+00.00

WAR-63-0.83

MODEL: CLP_SR63 - Profile 7 [Sheet1] PAPERSIZE: 11x17(in.) DATE: 8/23/2023 TIME: 10:32:12PM USER: Tahir.Sondo@jacobs.com
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DESIGN AGENCY	JACOBS
DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	131
TOTAL	436



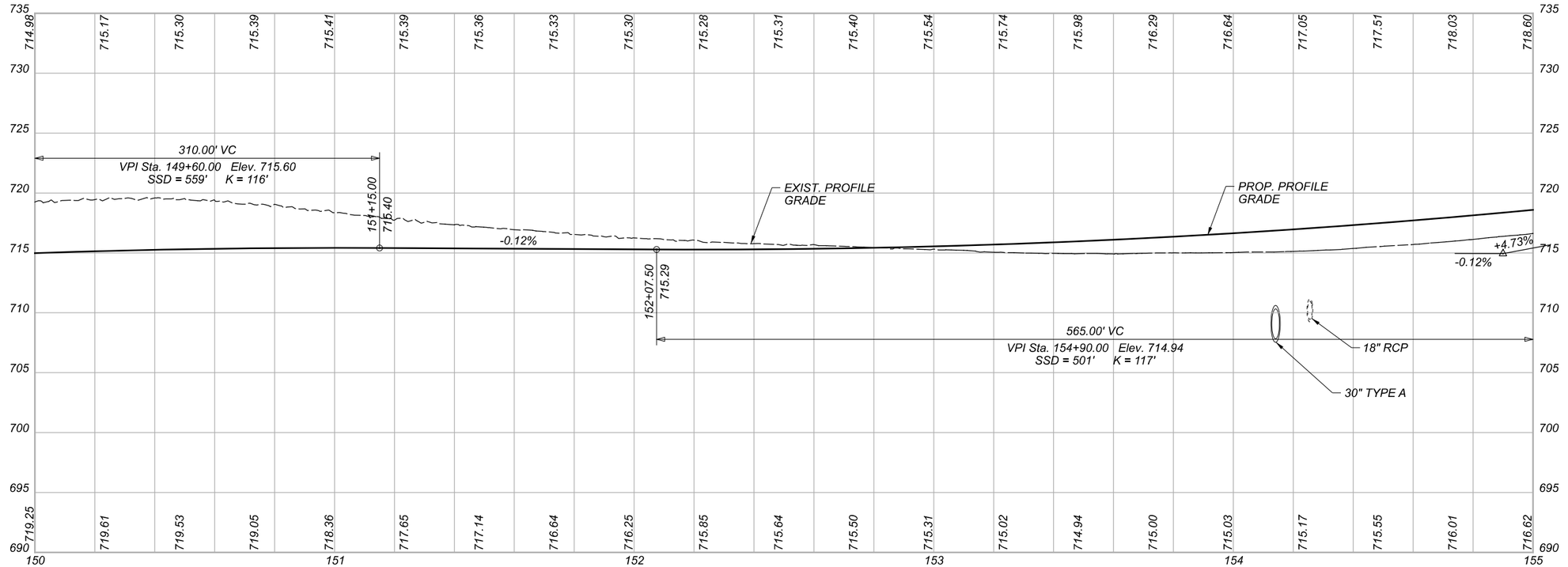


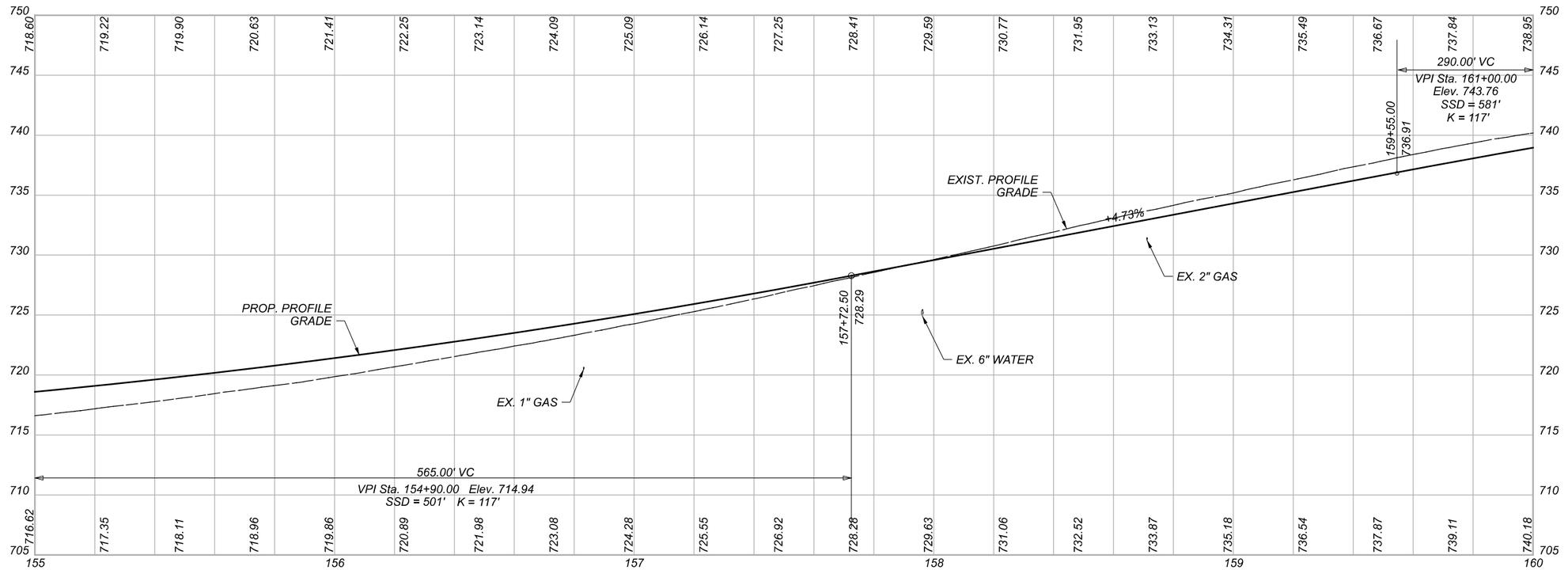
PROFILE - SR 63
STA. 140+00.00 TO STA. 150+00.00

WAR-63-0.83

MODEL: CLP_SR63 - Profile 9 [Sheet1] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 10:33 PM USER: Tahir.Sondo@jacobs.com
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DESIGN AGENCY	JACOBS
DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	132
TOTAL	436





PROFILE - SR 63
STA. 150+00.00 TO STA. 160+00.00

WAR-63-0.83

MODEL: CLP_SR63 - Profile (ESheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 10:34:44 PM USER: Tahir.Sondo@Jacobs.com
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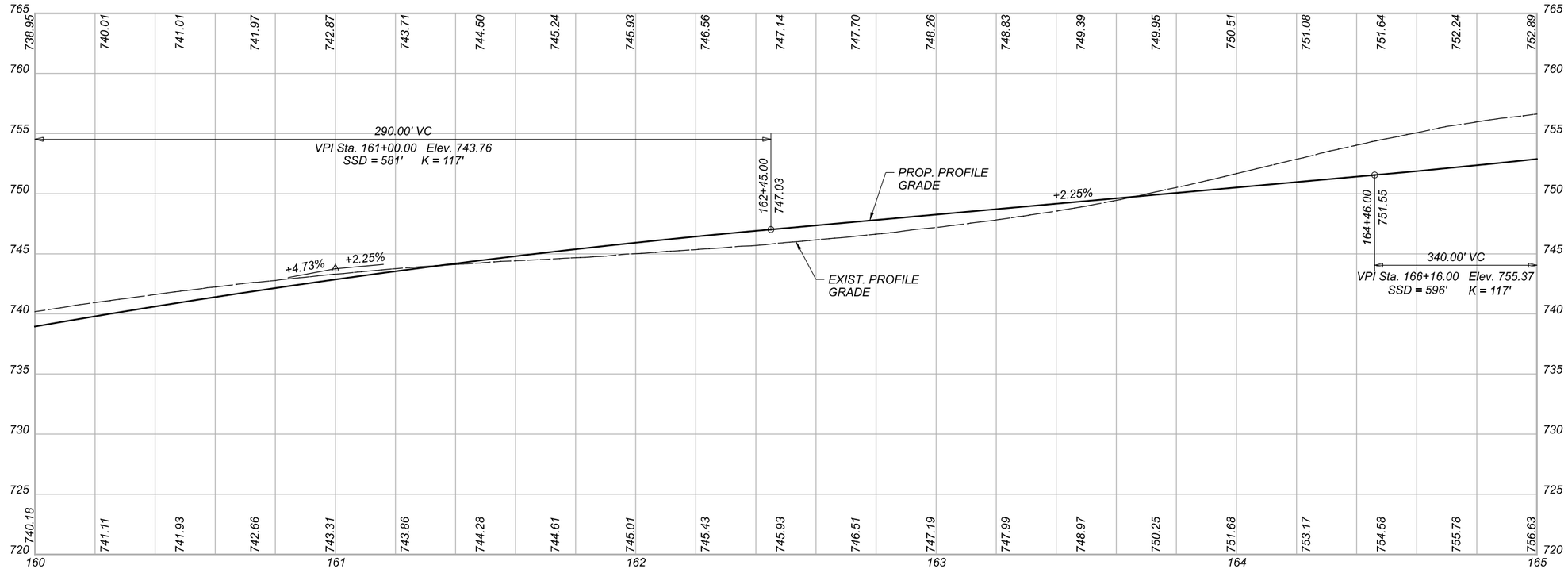
DESIGN AGENCY
JACOBS

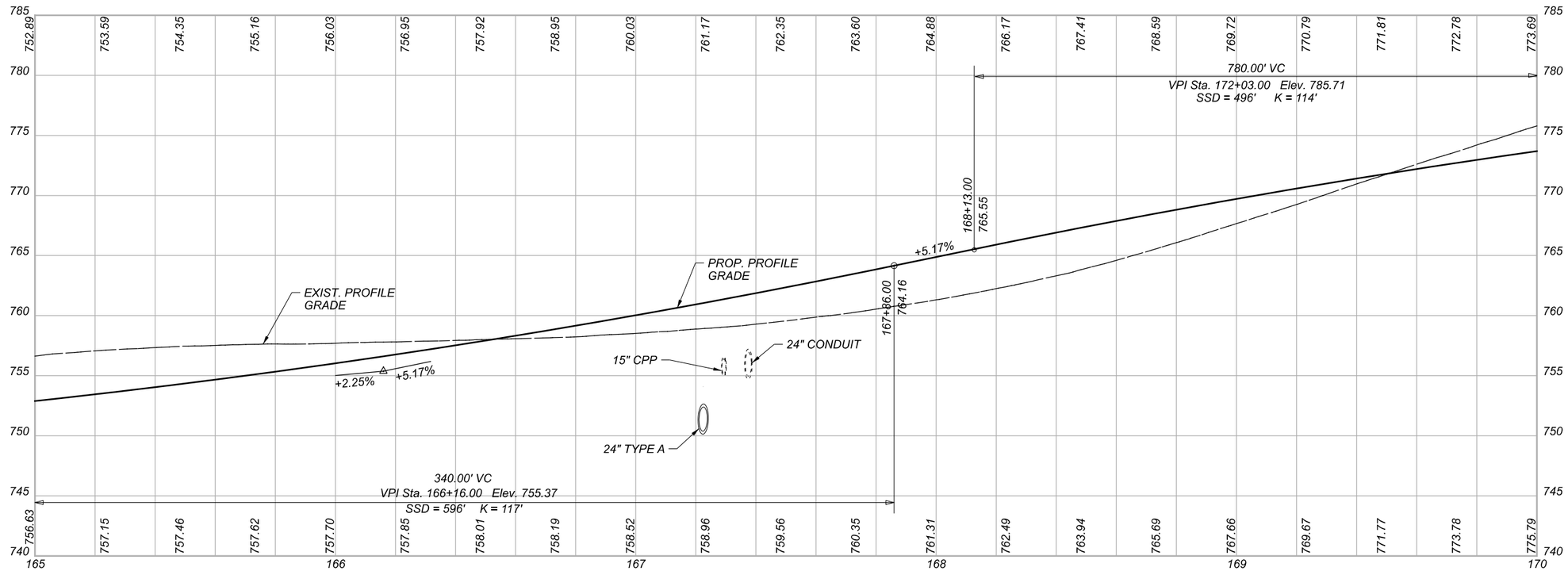
DESIGNER
MJA

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 133 TOTAL 436



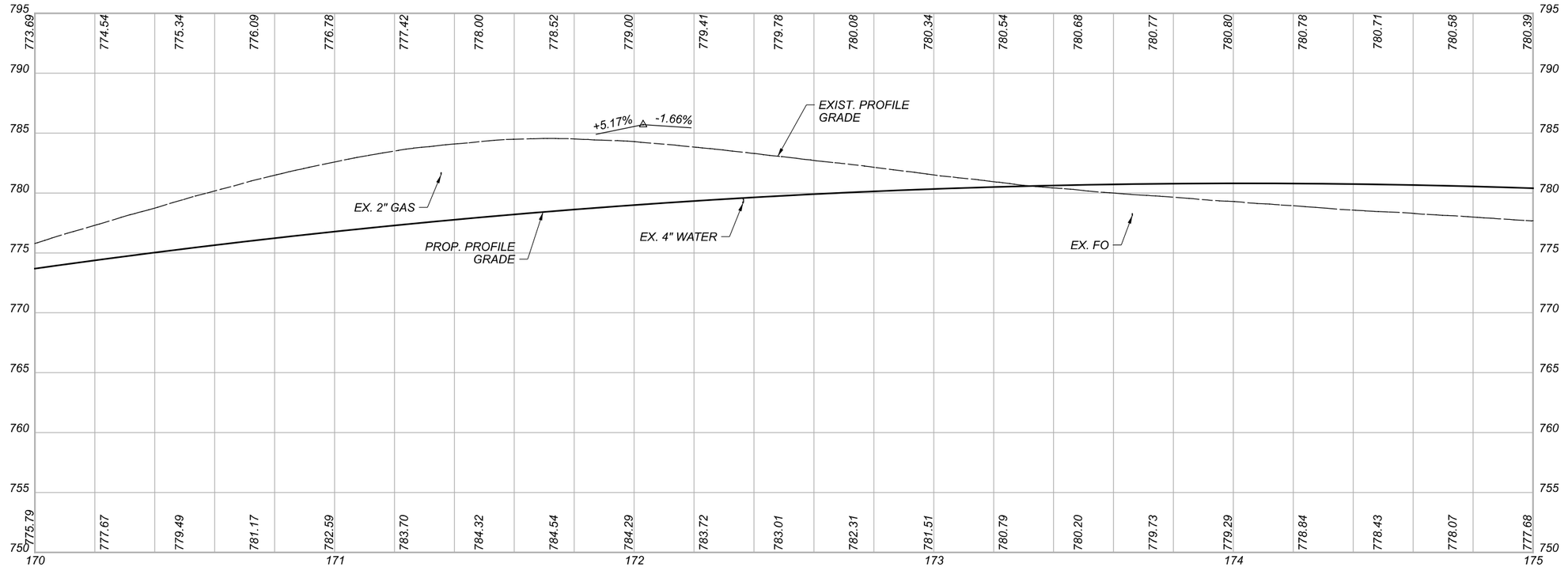


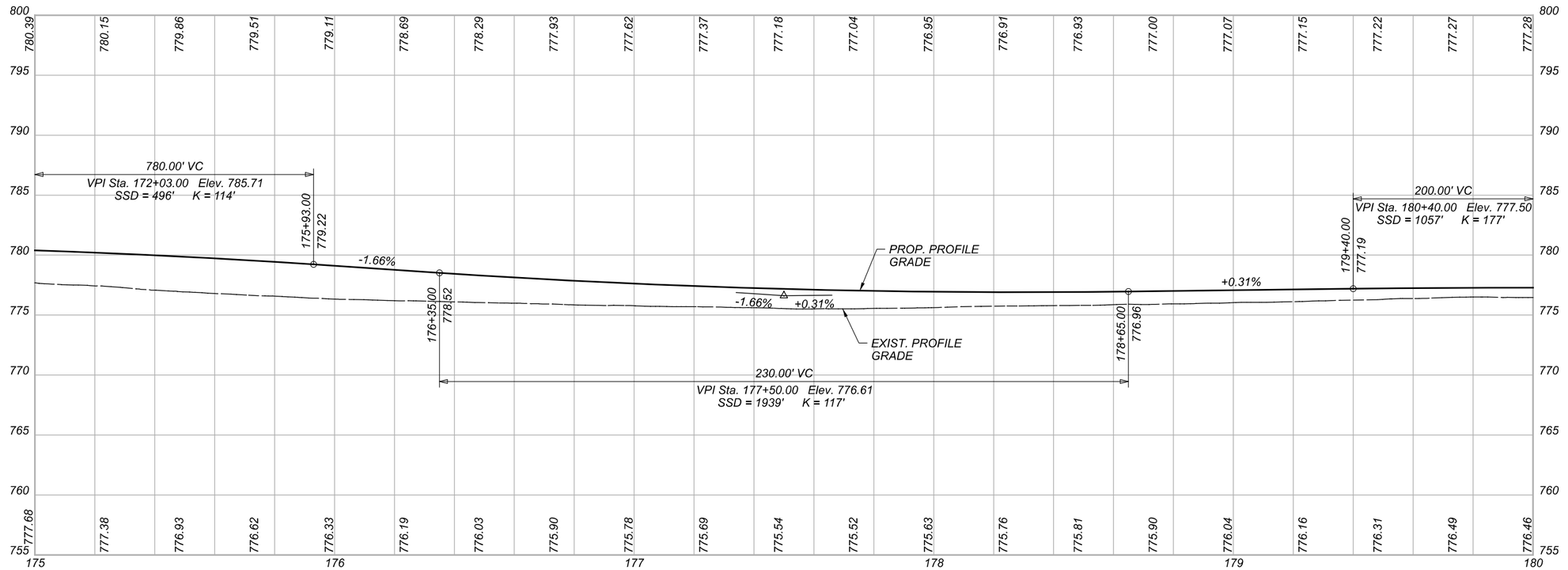
PROFILE - SR 63
STA. 160+00.00 TO STA. 170+00.00

WAR-63-0.83

MODEL: CLP_SR63 - Profile 13 (Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 10:35:55 PM USER: Tahir.Sondo@jacobs.com
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DESIGN AGENCY	JACOBS
DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	134
TOTAL	436





PROFILE - SR 63
STA. 170+00.00 TO STA. 180+00.00

WAR-63-0.83

MODEL: CLP_SR63 - Profile 15 (Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 10:40:07 PM USER: Tahir.Sondo@jacobs.com
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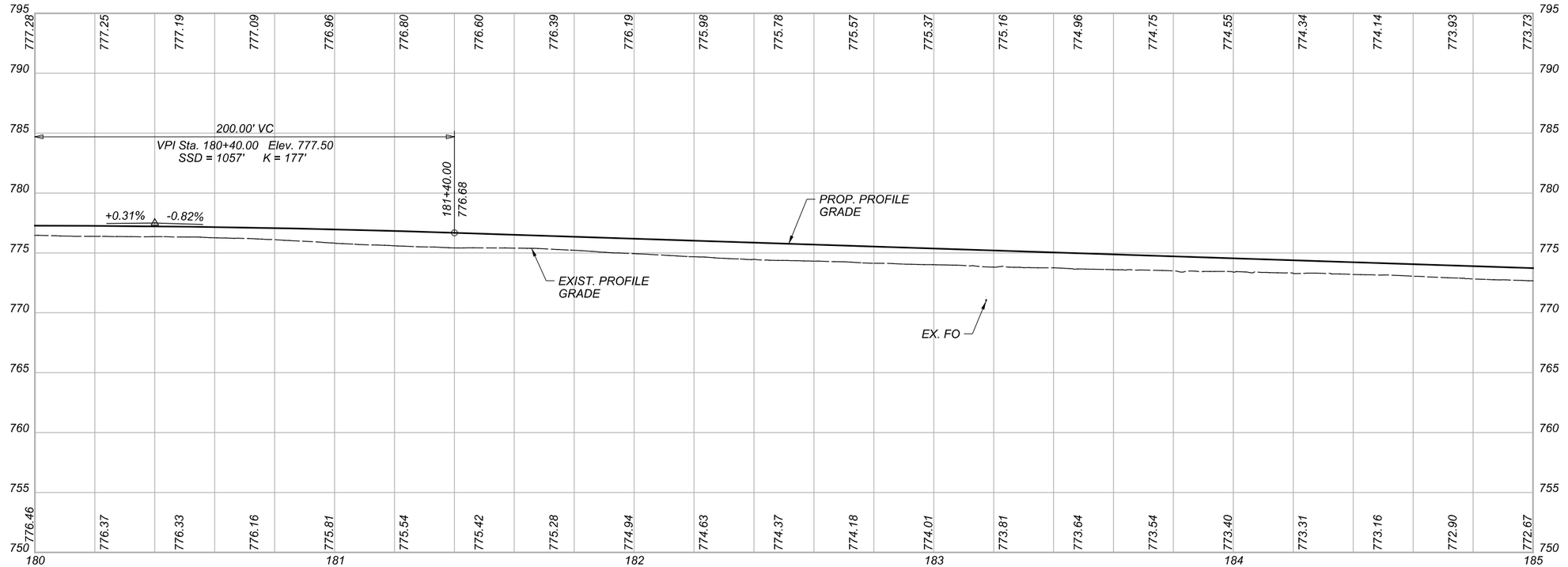
DESIGN AGENCY
JACOBS

DESIGNER
MJA

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 135 TOTAL 436



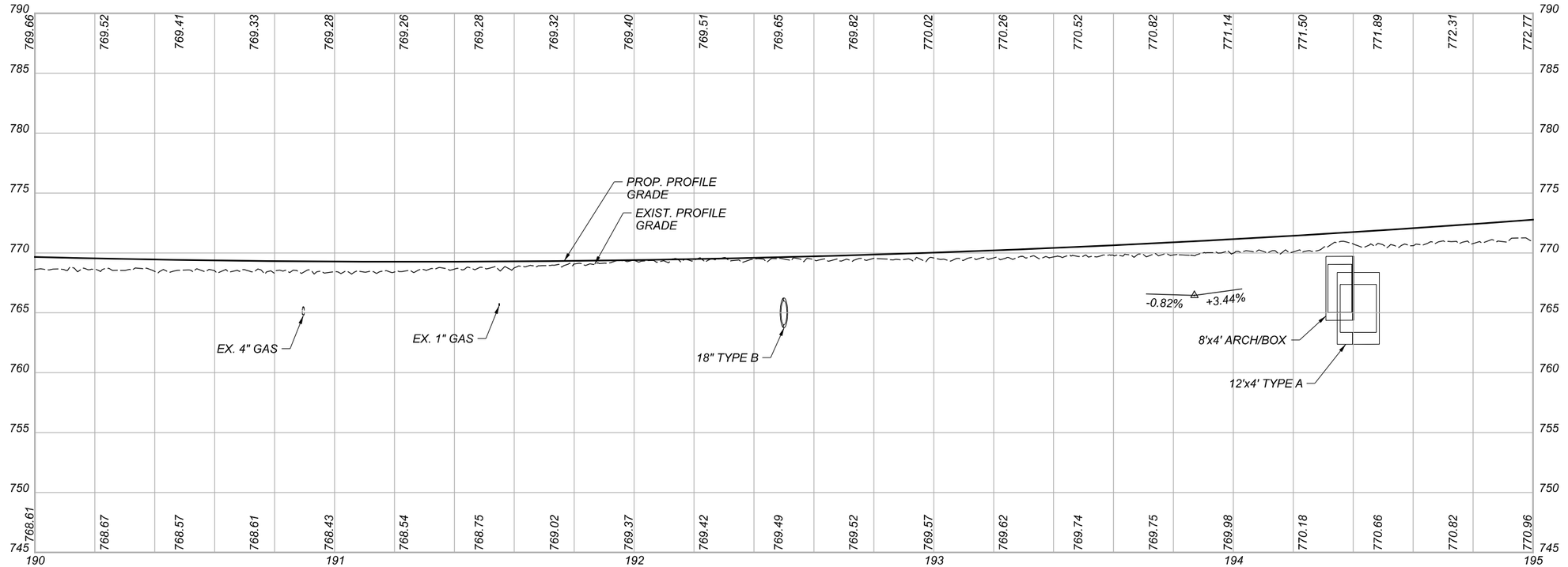
PROFILE - SR 63
STA. 180+00.00 TO STA. 190+00.00

WAR-63-0.83

MODEL: CLP_SR63 - Profile 17 (Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:04:18 PM USER: Tahir.Sondo@Jacobs.com
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DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	136
TOTAL	436



PROFILE - SR 63
STA. 190+00.00 TO STA. 200+00.00

WAR-63-0.83

MODEL: CLP_SR63 - Profile 19 (Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:04:29 PM USER: Tahir.Sondo@jacobs.com
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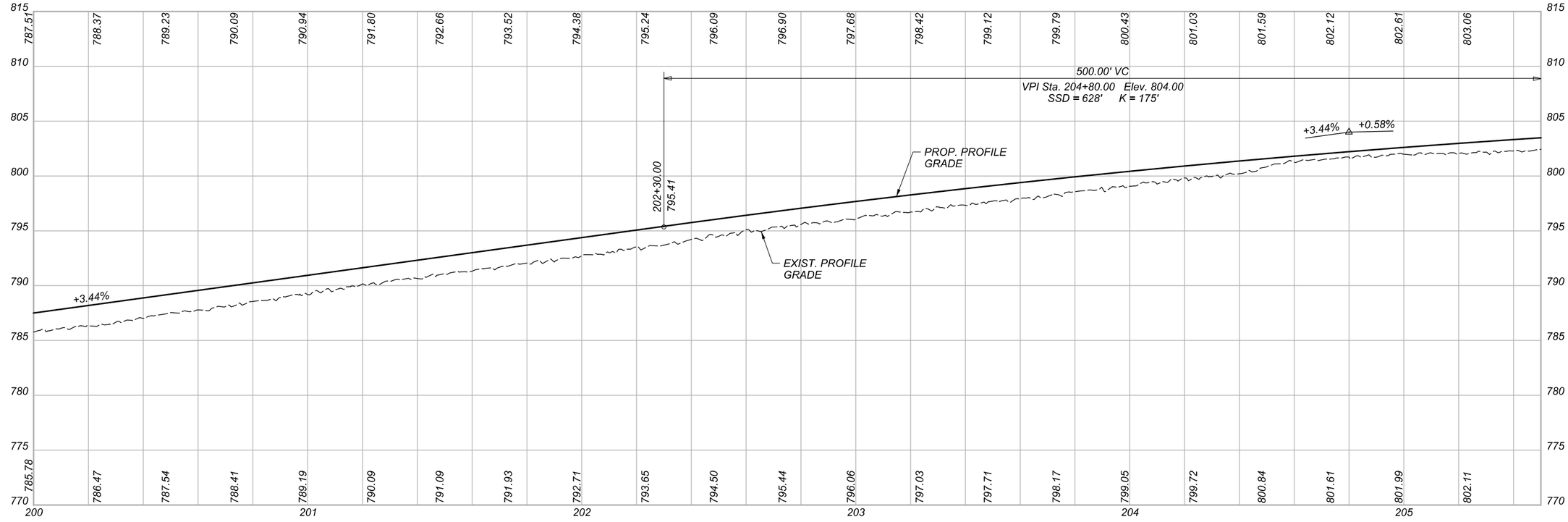
DESIGN AGENCY
JACOBS

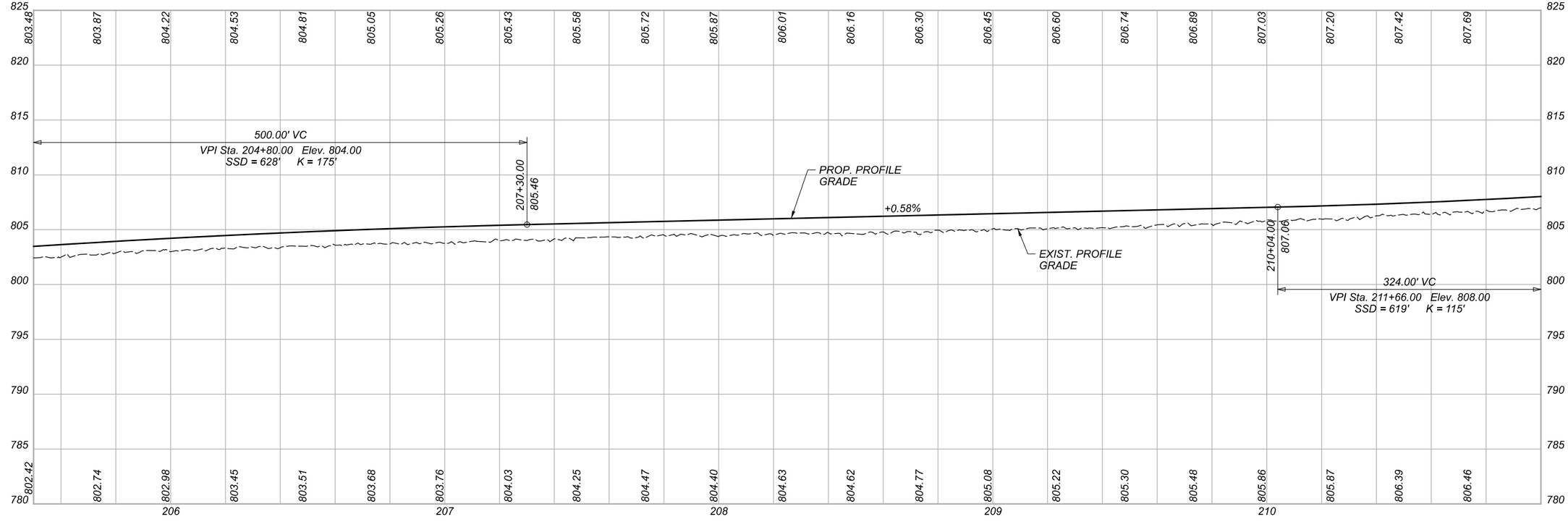
DESIGNER
MJA

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 137 TOTAL 436





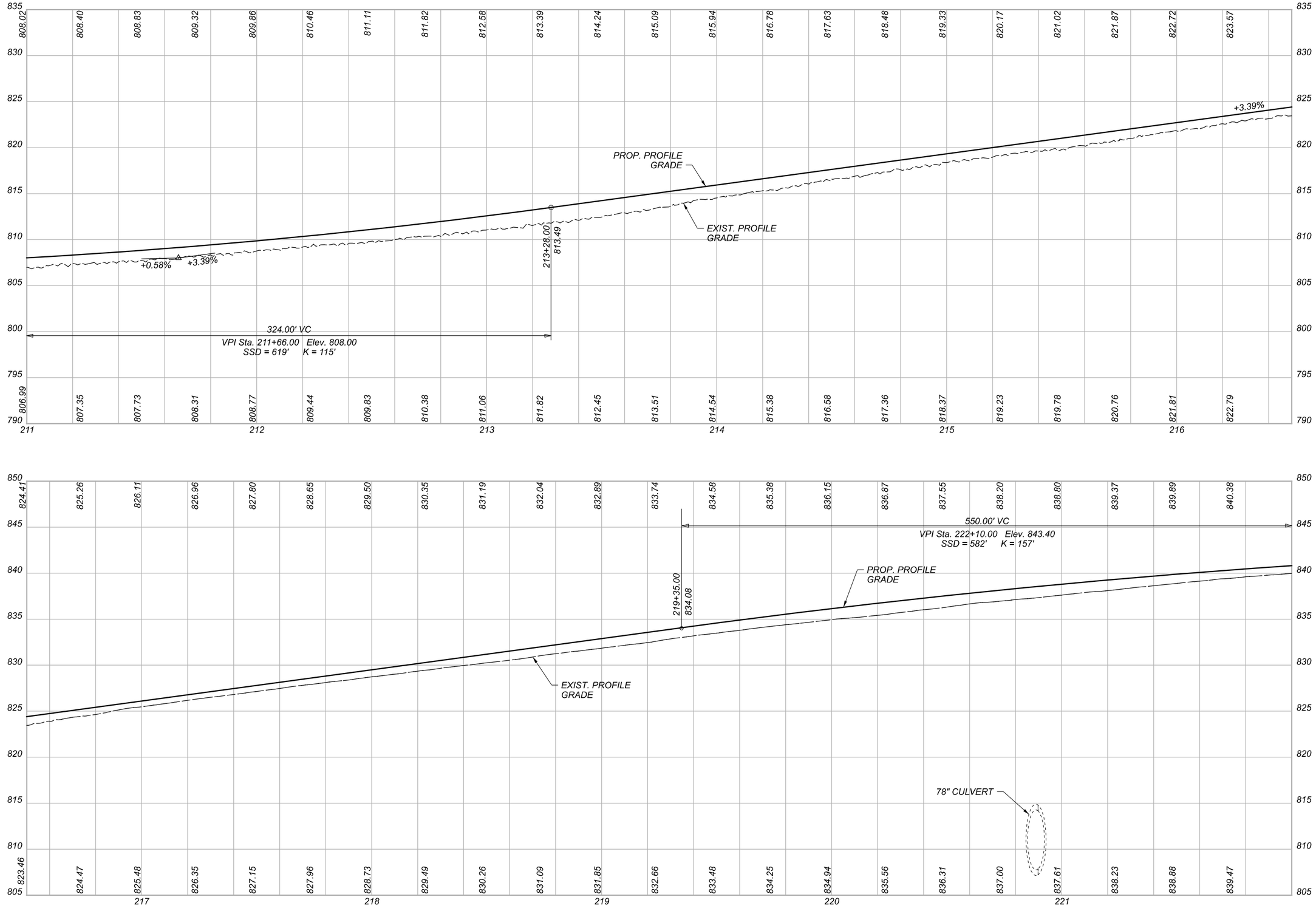
PROFILE - SR 63
STA. 200+00.00 TO STA. 211+00.00

WAR-63-0.83

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DESIGN AGENCY
JACOBS

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 138 TOTAL 436



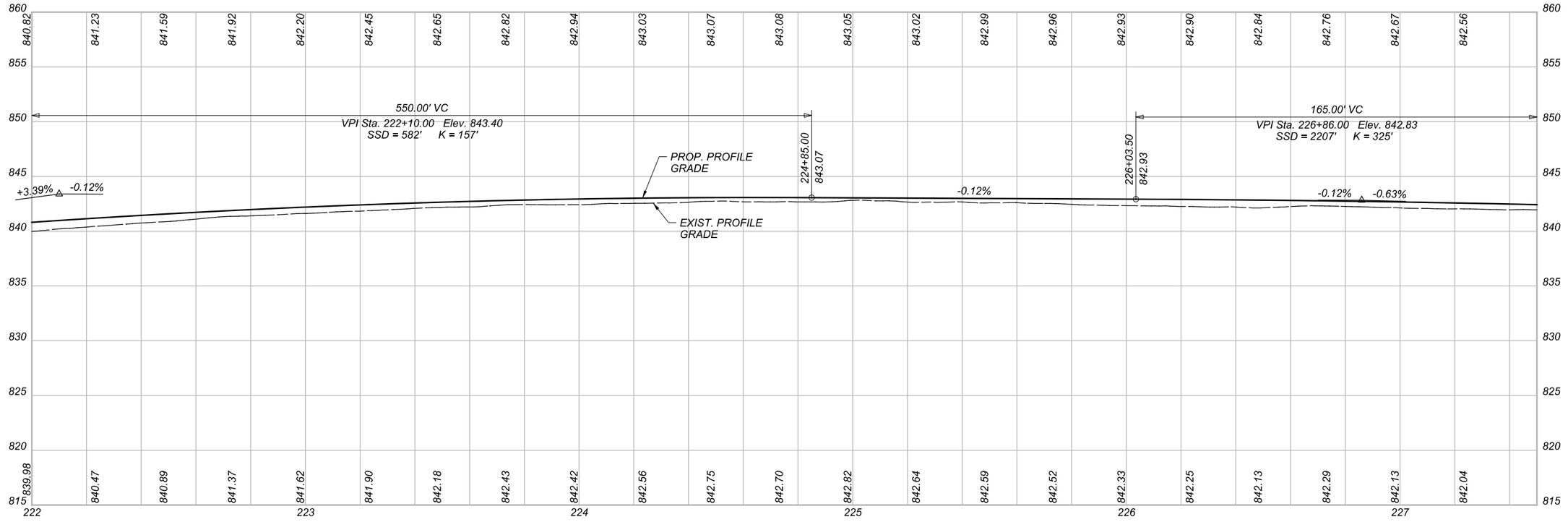
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STA. 211+00.00 TO STA. 222+00.00

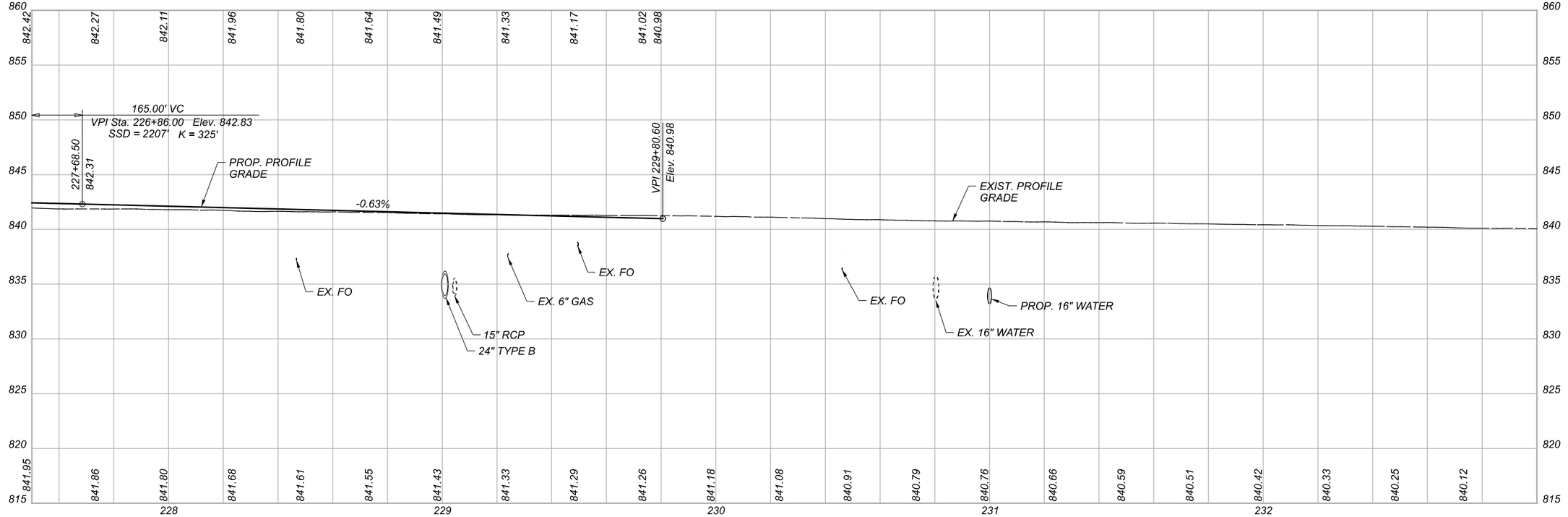
WAR-63-0.83

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DESIGN AGENCY
JACOBS

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 139 TOTAL 436





PROFILE - SR 63
STA. 222+00.00 TO STA. 233+00.00

WAR-63-0.83

MODEL: CLP_SR63 - Profile 25 [Sheet] PAPERSIZE: 17x11(in) DATE: 8/23/2023 TIME: 05:04 PM USER: Tahir.Sondo@jacobs.com
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DESIGN AGENCY
JACOBS

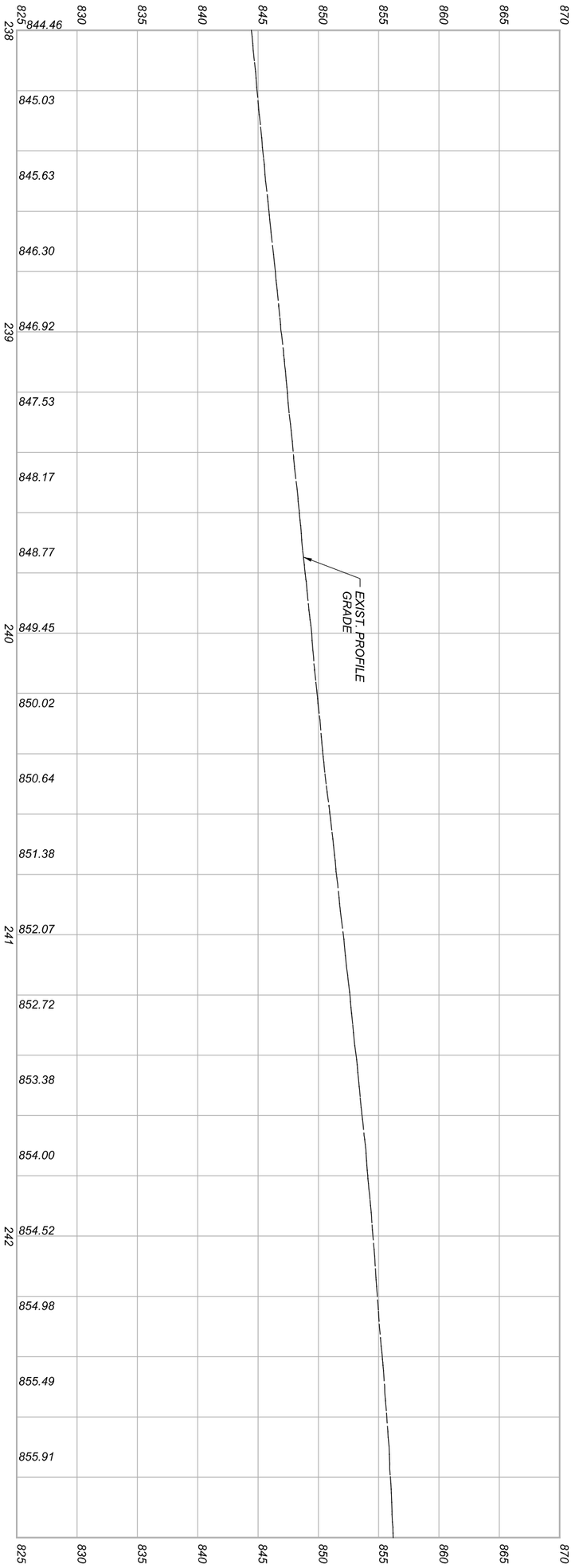
DESIGNER
MJA

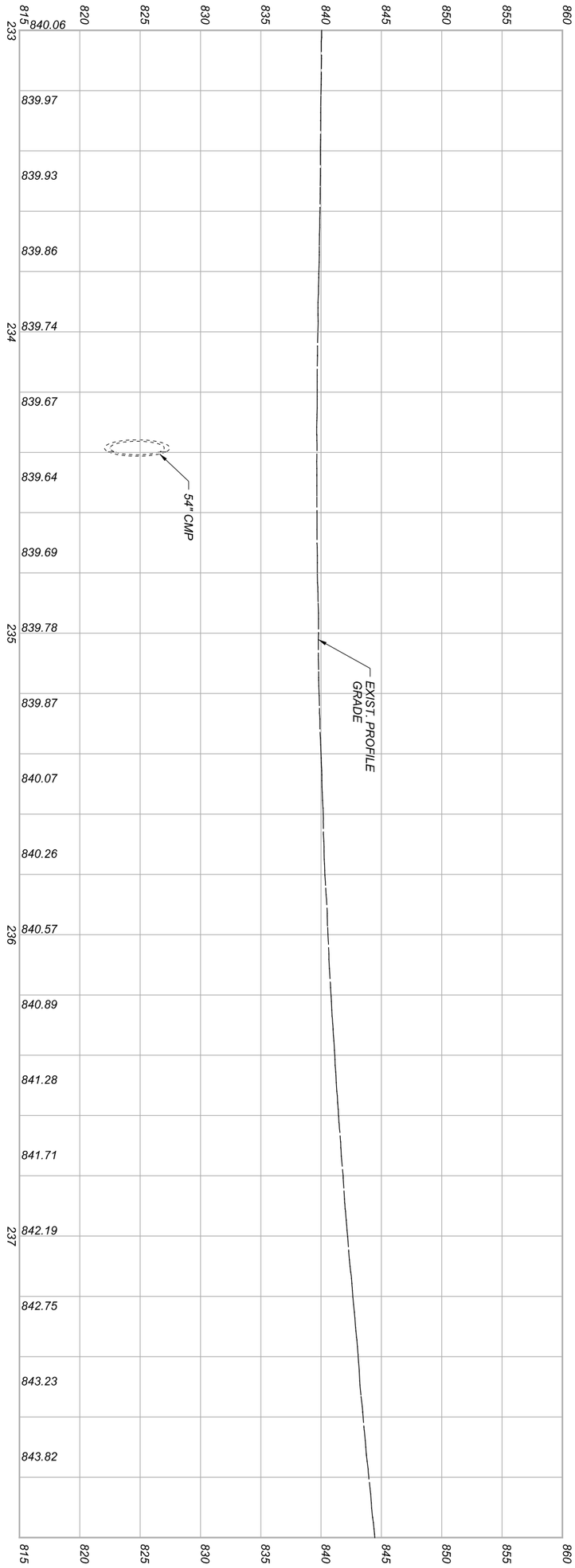
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 140 TOTAL 436

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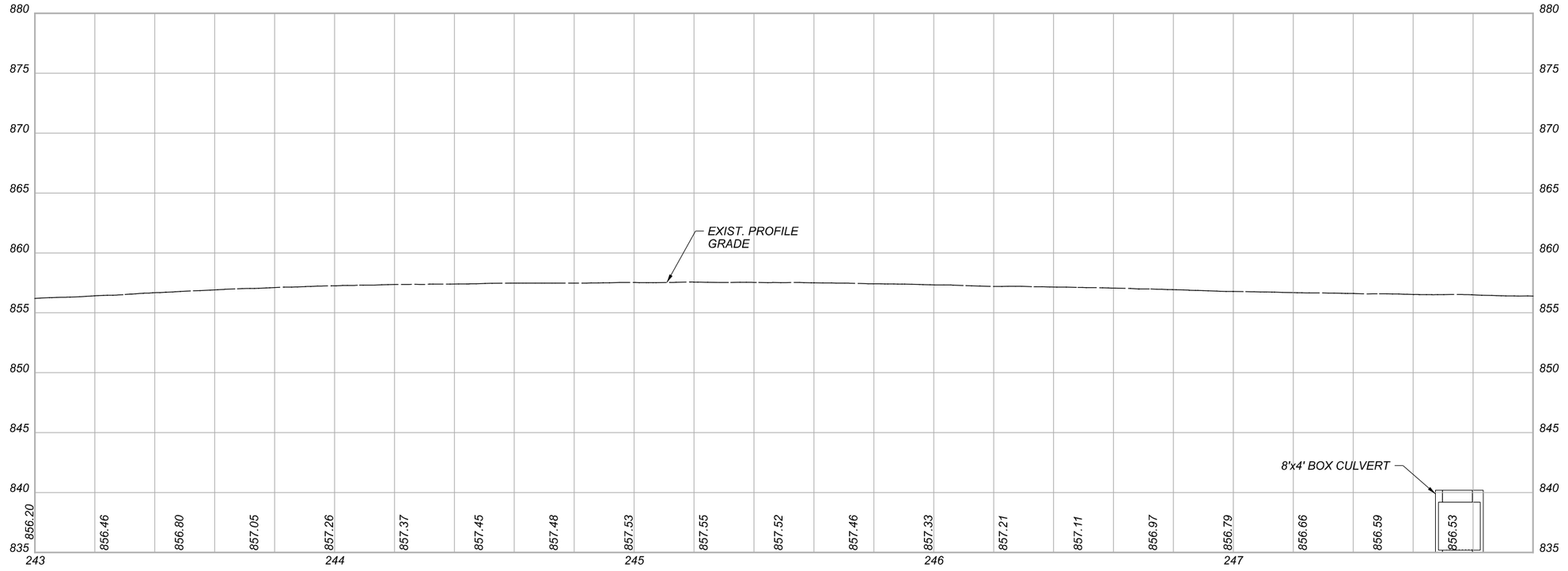


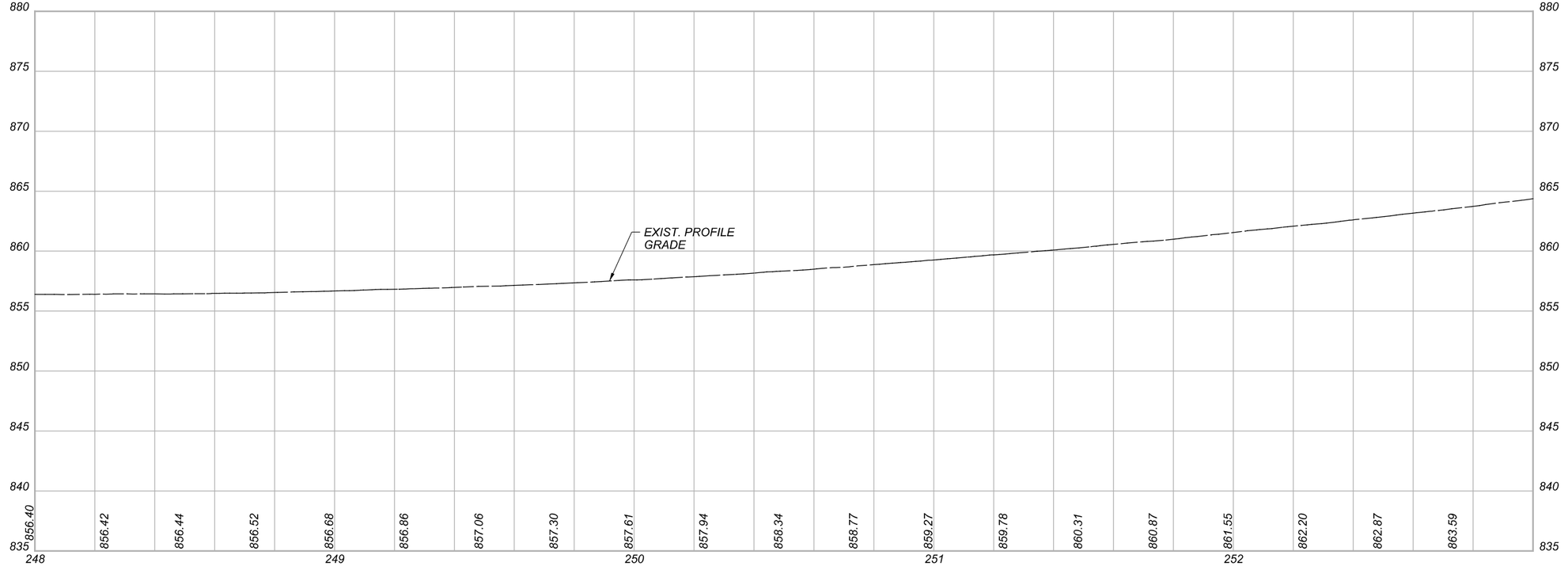
SHEET 141 TOTAL 436	PROJECT ID 112121	RN 08/22/23 REVIEWER	DESIGNER MJA

JACOBS

DESIGN AGENCY

PROFILE - SR 63
STA. 233+00.00 TO STA. 243+00.00





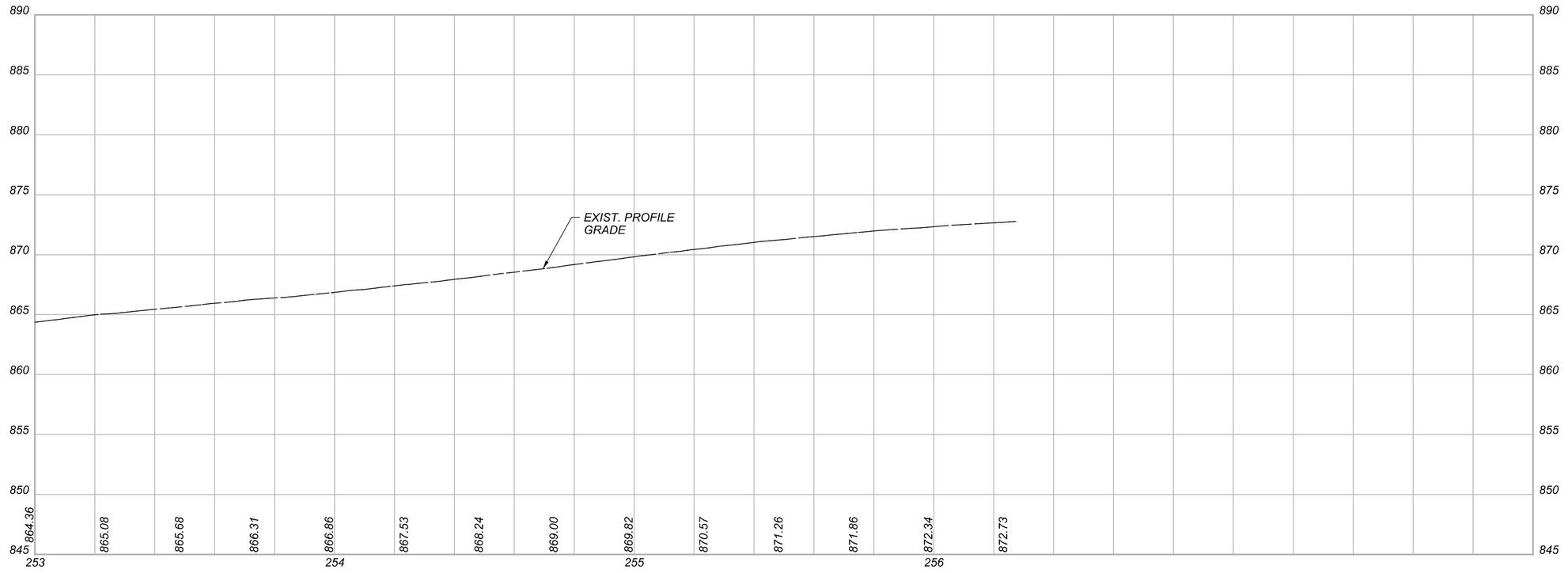
PROFILE - SR 63
STA. 243+00.00 TO STA. 253+00.00

WAR-63-0.83

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pw:\\Project#WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GP100.dgn

DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	142
TOTAL	436



PROFILE - SR 63
STA. 253+00.00 TO STA. 257+00.00

WAR-63-0.83

MODEL: CLP_SR63 - Profile 3(1Sheet) PAPERSIZE: 17x11(in) DATE: 8/23/2023 TIME: 1:05:36 PM USER: Tahir.Sondo@jacobs.com
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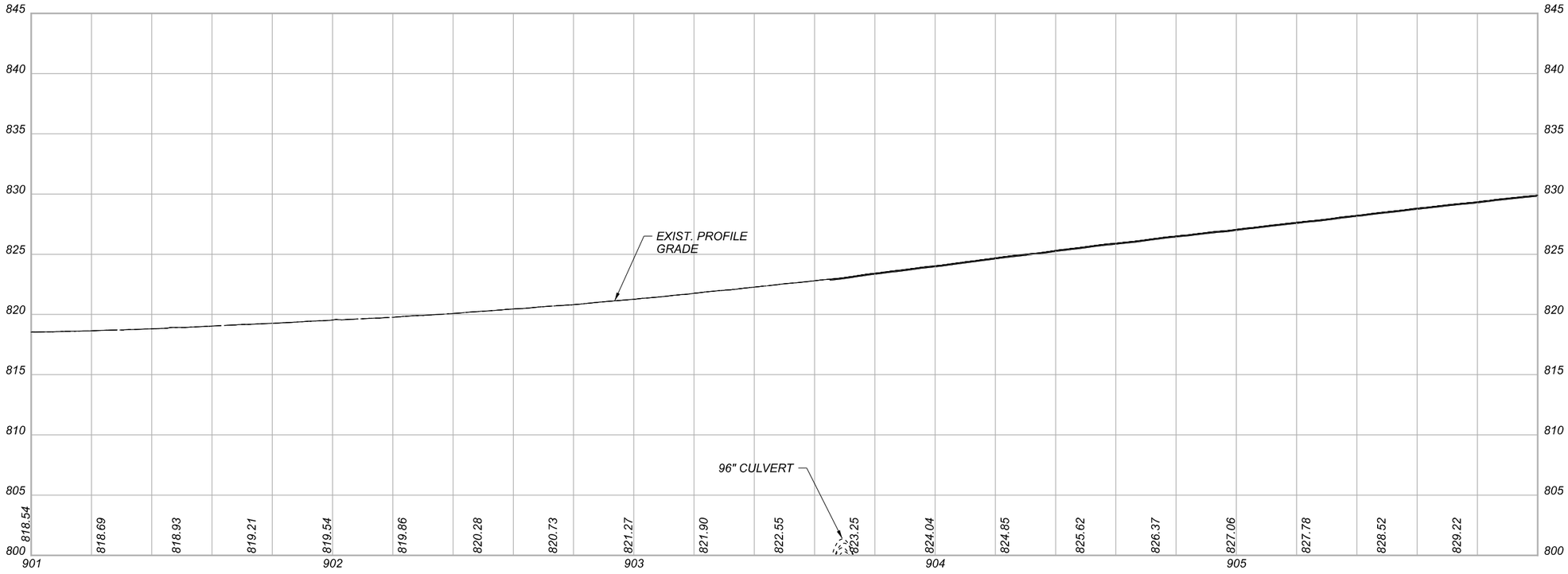
DESIGN AGENCY
JACOBS

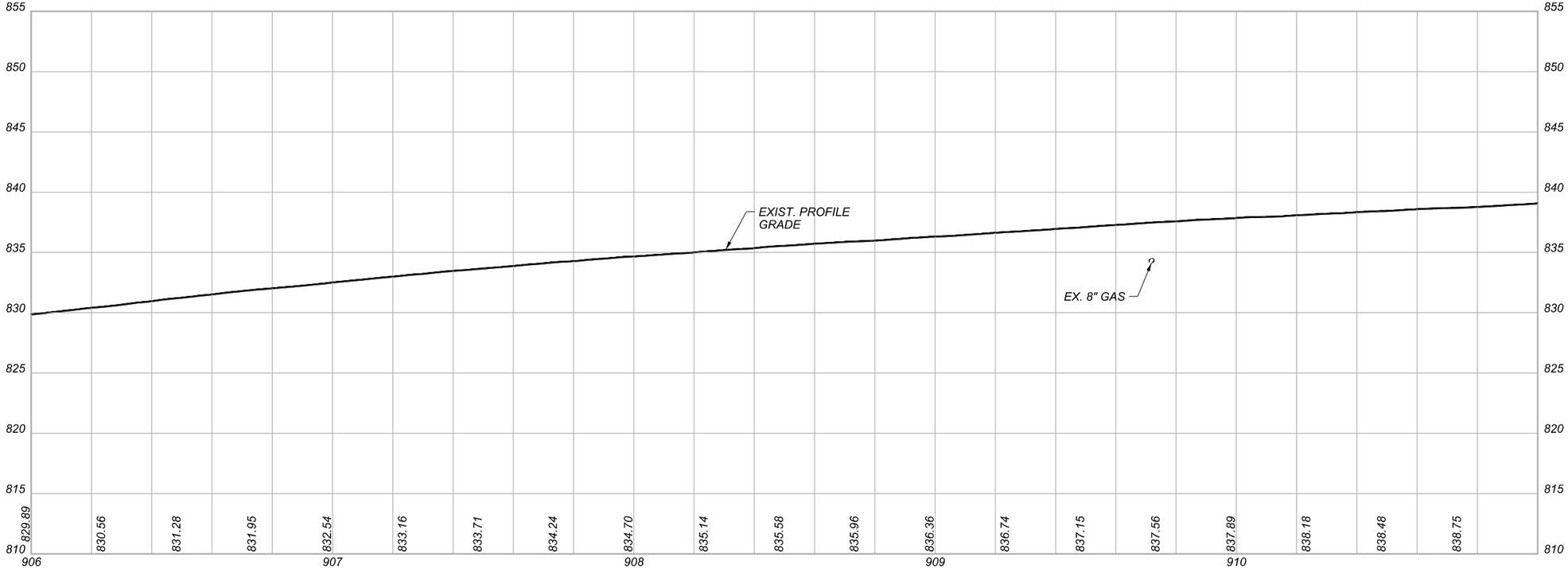
DESIGNER
MJA

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 143 | TOTAL 436





PROFILE - SR 741
STA. 901+00.00 TO STA. 911+00.00

WAR-63-0.83

MODEL: PGL_Milling - Profile (Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:06:13 PM USER: Tahir.Sondo@jacobs.com
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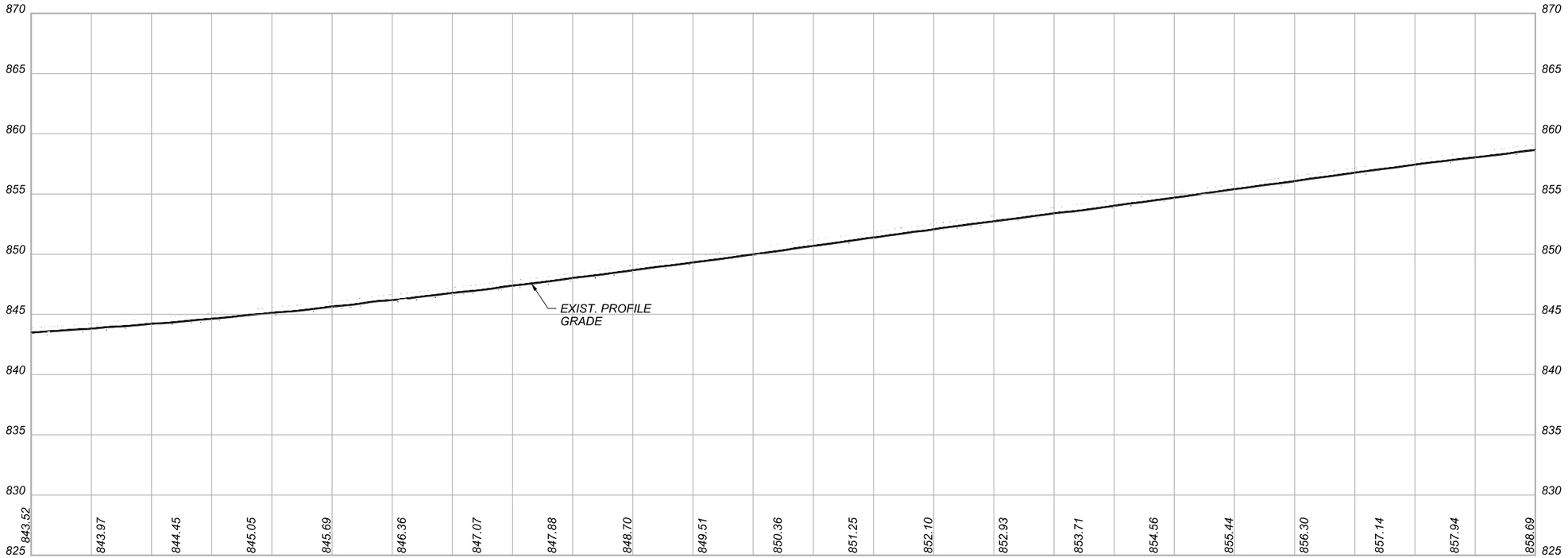
DESIGN AGENCY
JACOBS

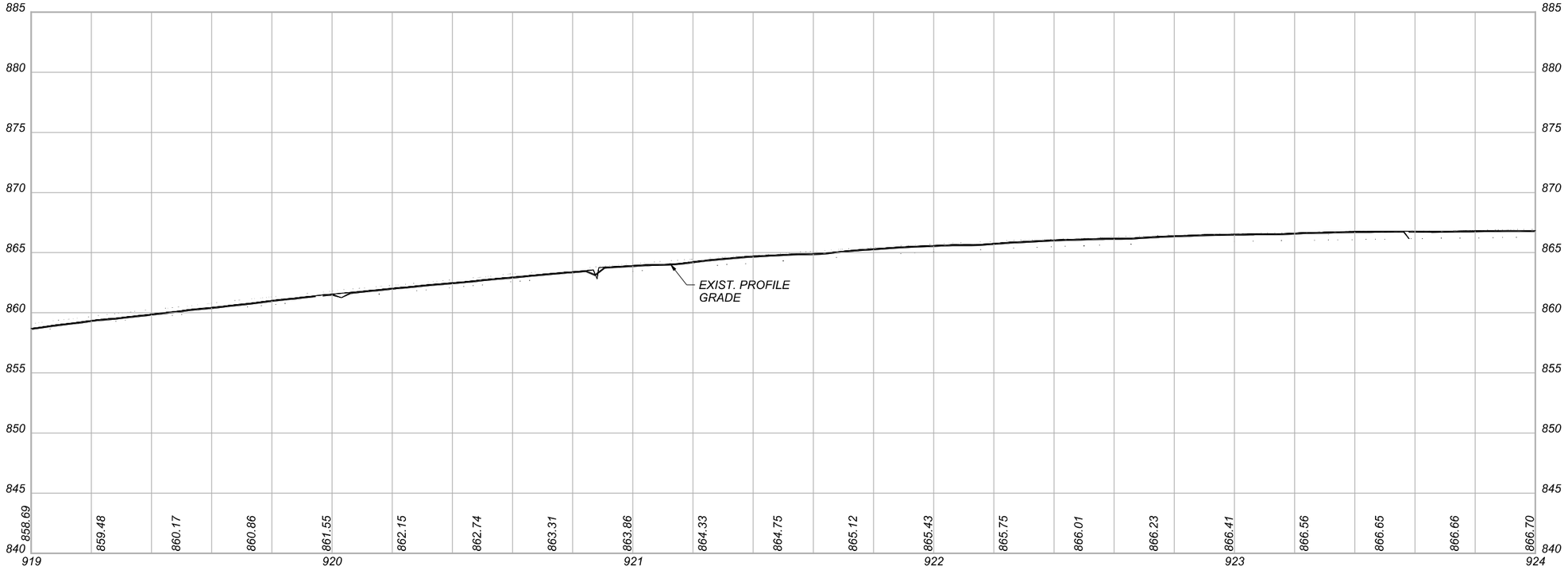
DESIGNER
MJA

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 144 TOTAL 436





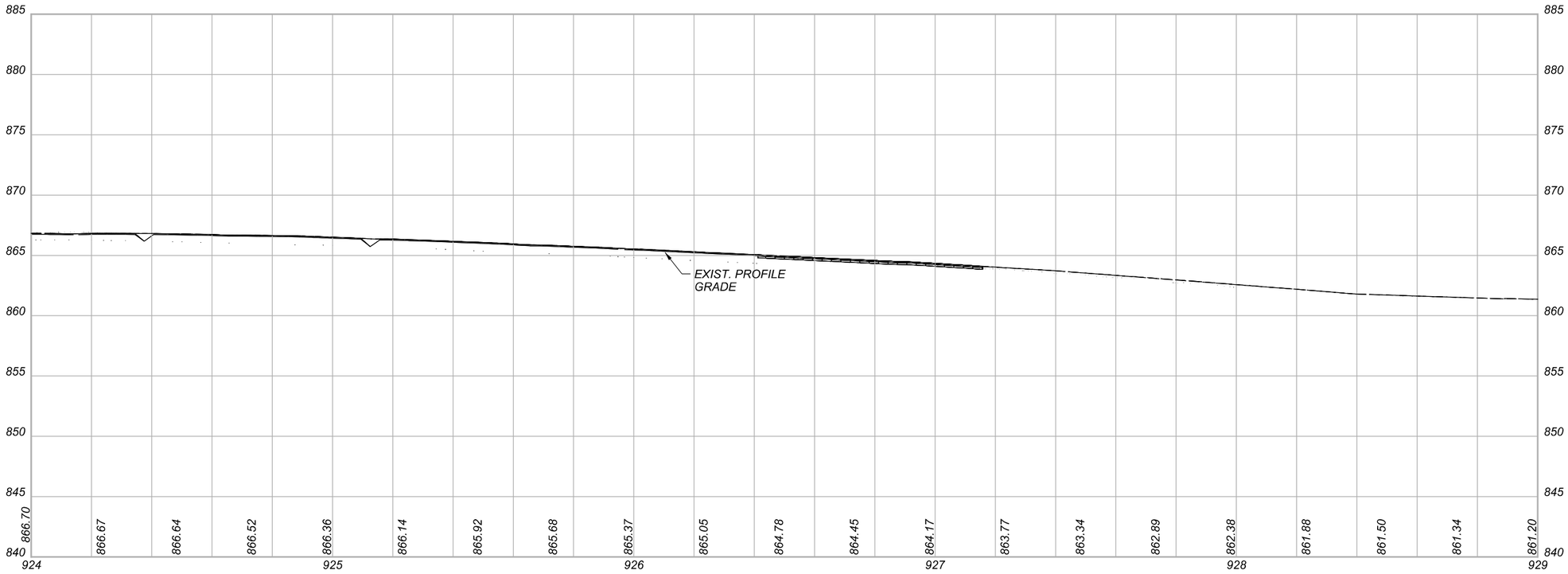
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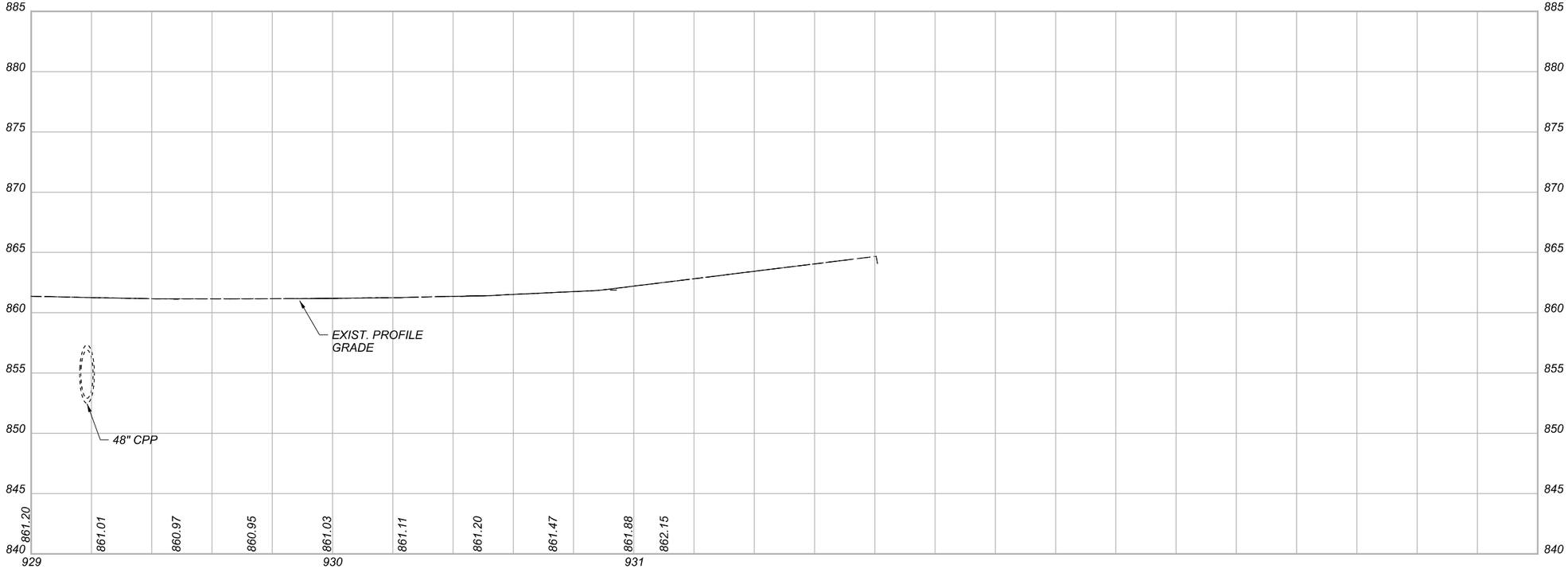
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PROFILE - SR 741
STA.914+00.00 TO STA. 924+00.00

DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	145
TOTAL	436





PROFILE - SR 741
STA. 924+00.00 TO STA. 932+00.00

DESIGN AGENCY
JACOBS

DESIGNER
MJA

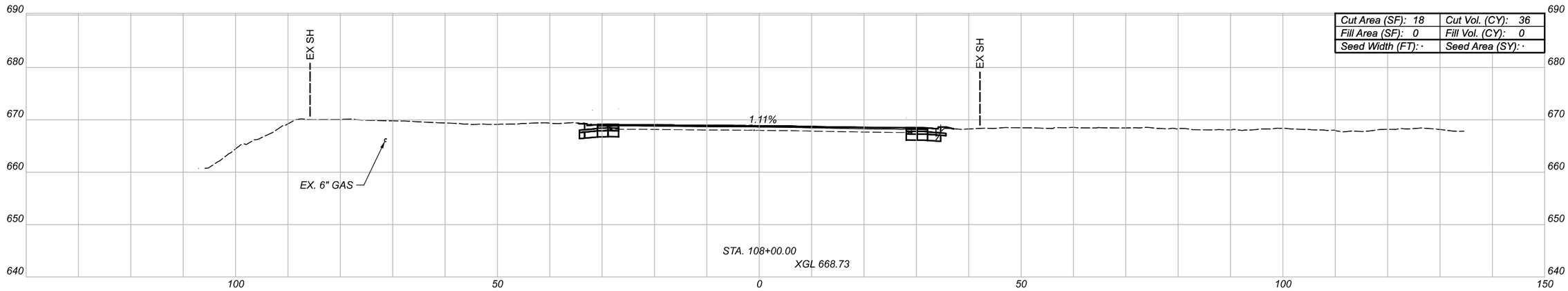
REVIEWER
RN 08/22/23

PROJECT ID
112121

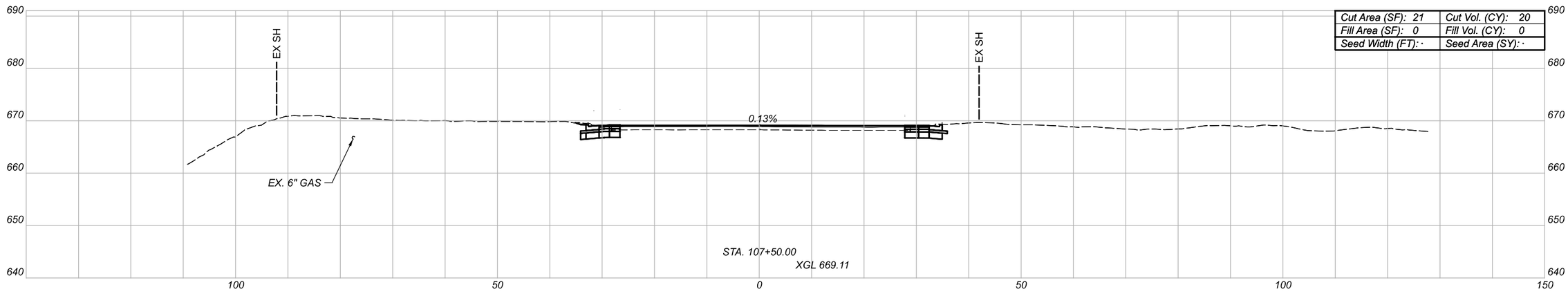
SHEET 146 TOTAL 436

WAR-63-0.83

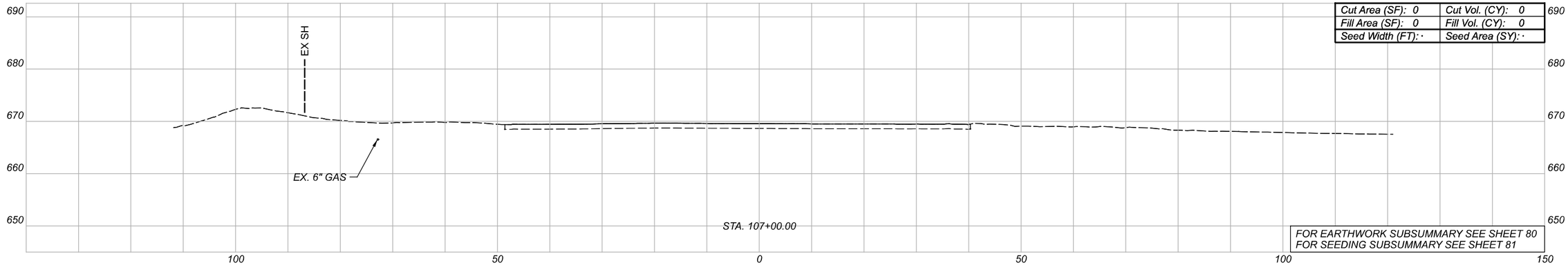
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6AI8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GF200.dgn



Cut Area (SF): 18	Cut Vol. (CY): 36
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Cut Area (SF): 21	Cut Vol. (CY): 20
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 107+00.00 TO STA. 108+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

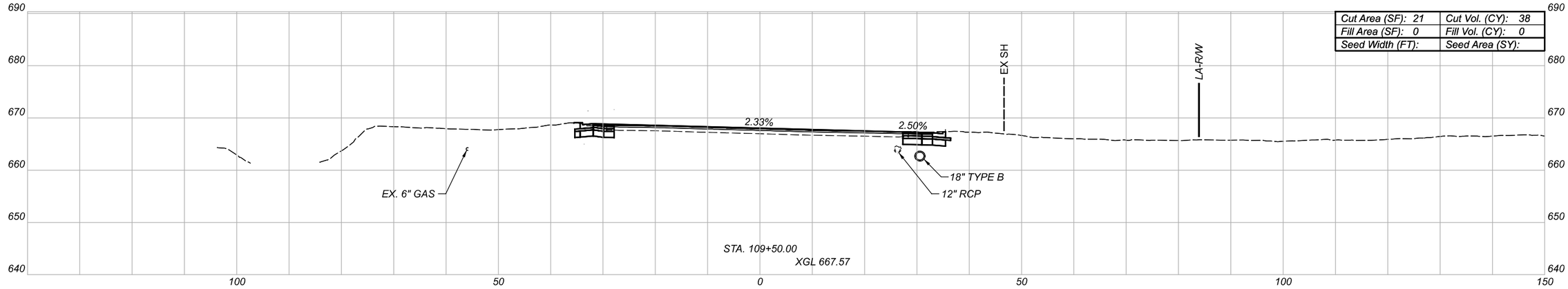
PROJECT ID
112121

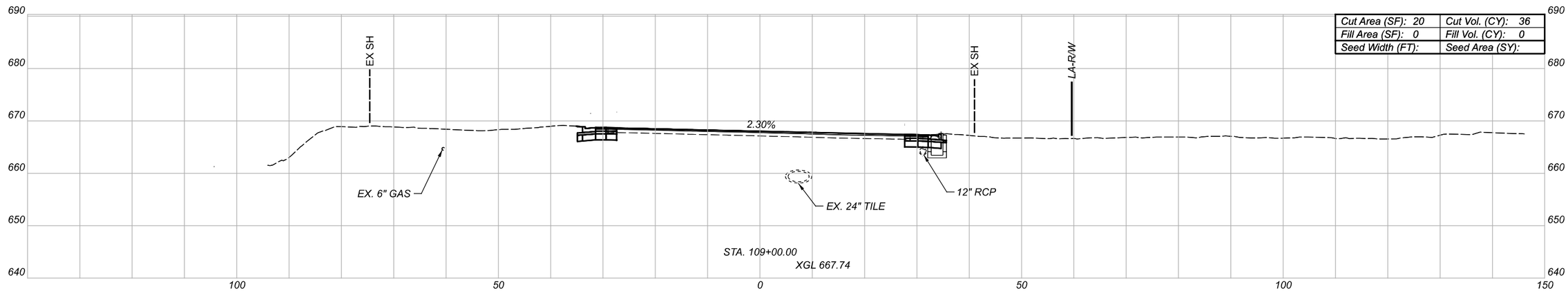
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Seeding	Cut	Fill
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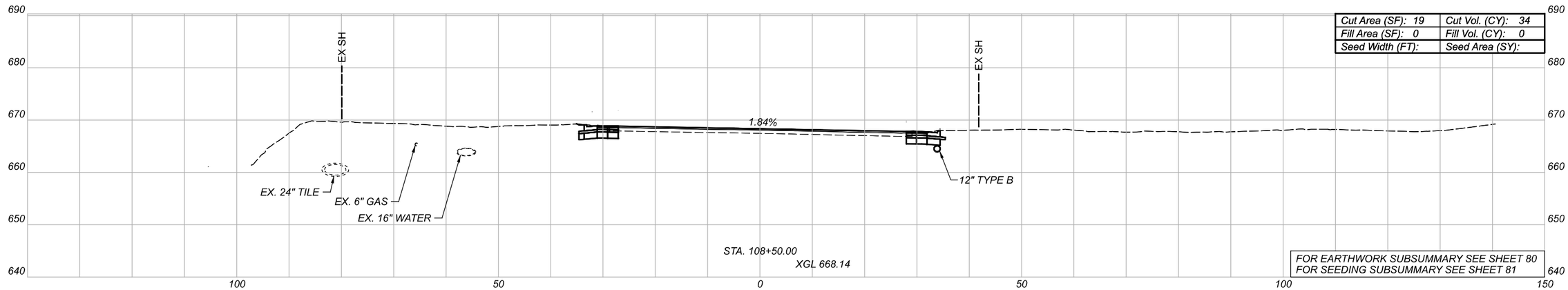
SHEET 147 TOTAL 436

WAR-63-0.83

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CROSS SECTIONS - SR 63
STA. 108+50.00 TO STA. 109+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

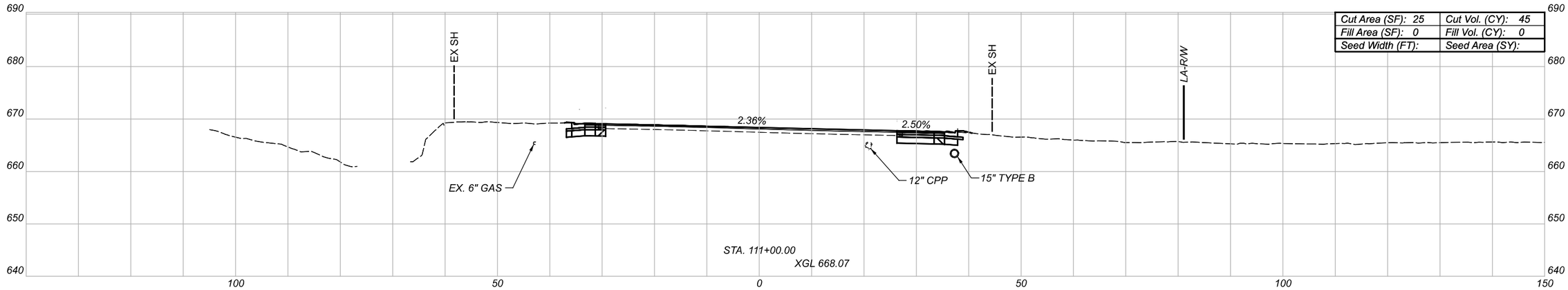
PROJECT ID
112121

Sheet Totals		
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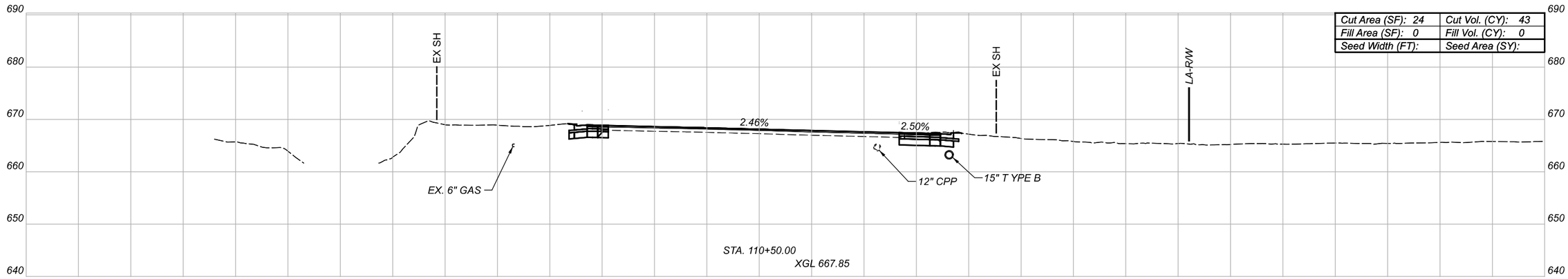
SHEET 148 TOTAL 436

WAR-63-0.83

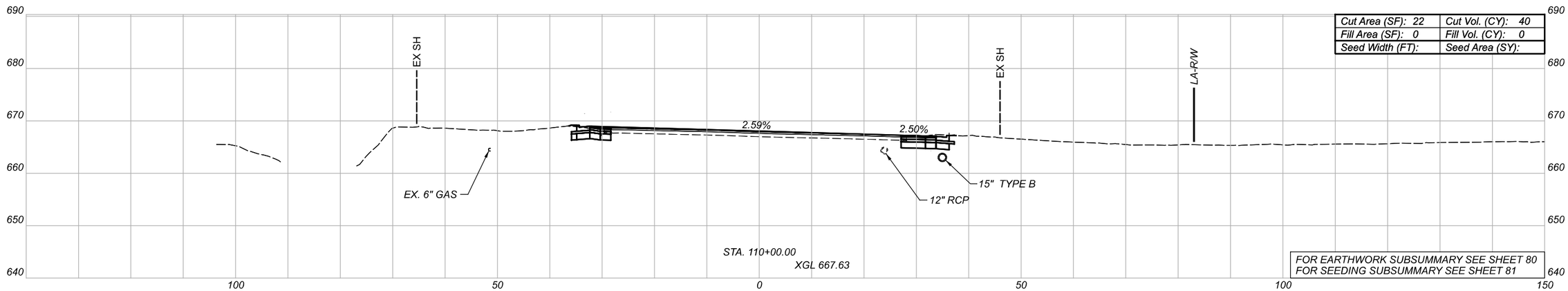
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Cut Area (SF): 25	Cut Vol. (CY): 45
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 24	Cut Vol. (CY): 43
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 22	Cut Vol. (CY): 40
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 110+00.00 TO STA. 111+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

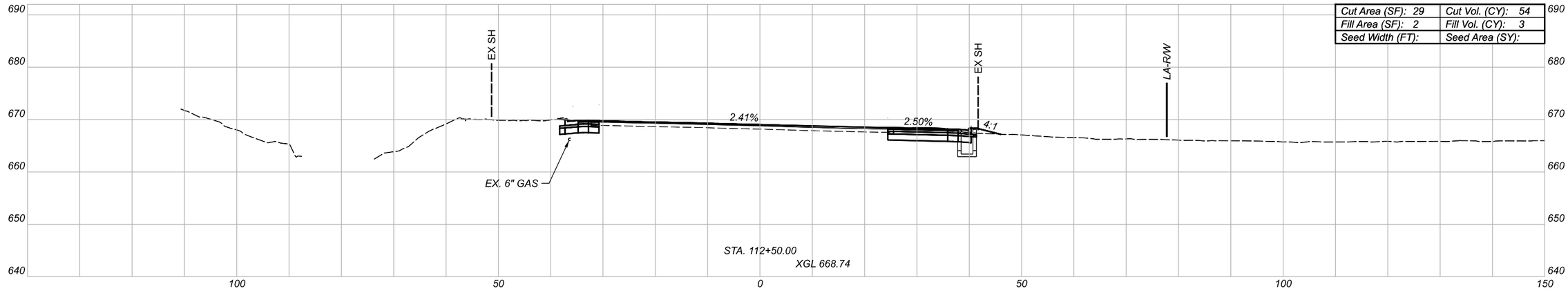
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Sheet Totals		
Seeding	Cut	Fill
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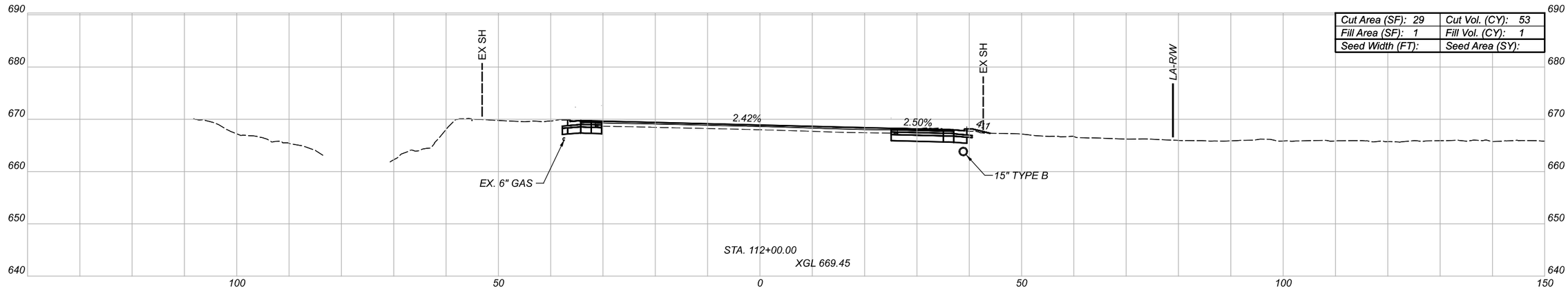
SHEET 149 TOTAL 436

WAR-63-0.83

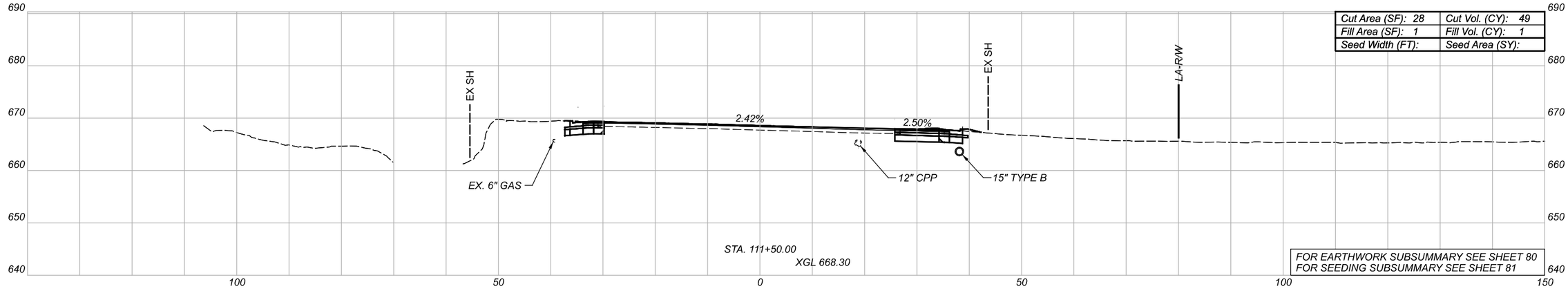
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Cut Area (SF): 29	Cut Vol. (CY): 54
Fill Area (SF): 2	Fill Vol. (CY): 3
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 29	Cut Vol. (CY): 53
Fill Area (SF): 1	Fill Vol. (CY): 1
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 28	Cut Vol. (CY): 49
Fill Area (SF): 1	Fill Vol. (CY): 1
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 111+50.00 TO STA. 112+50.00

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

DESIGNER
JO

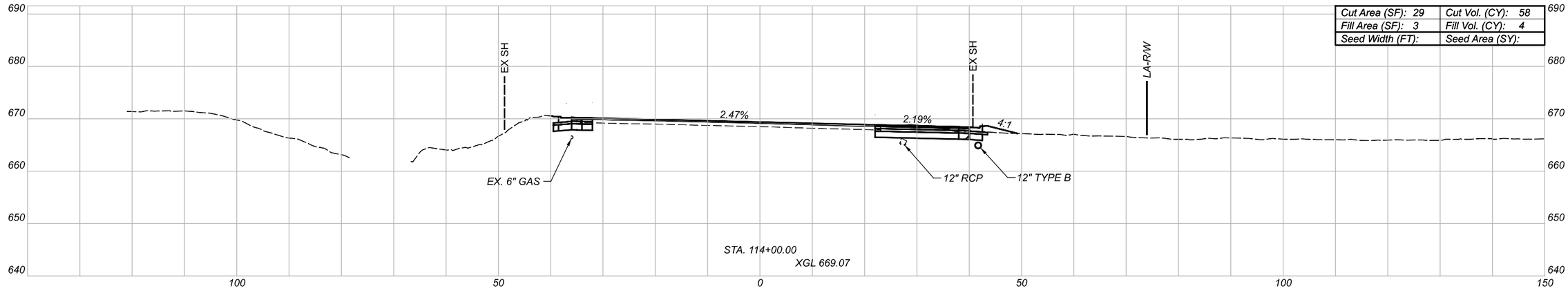
REVIEWER
RN 08/22/23

PROJECT ID
112121

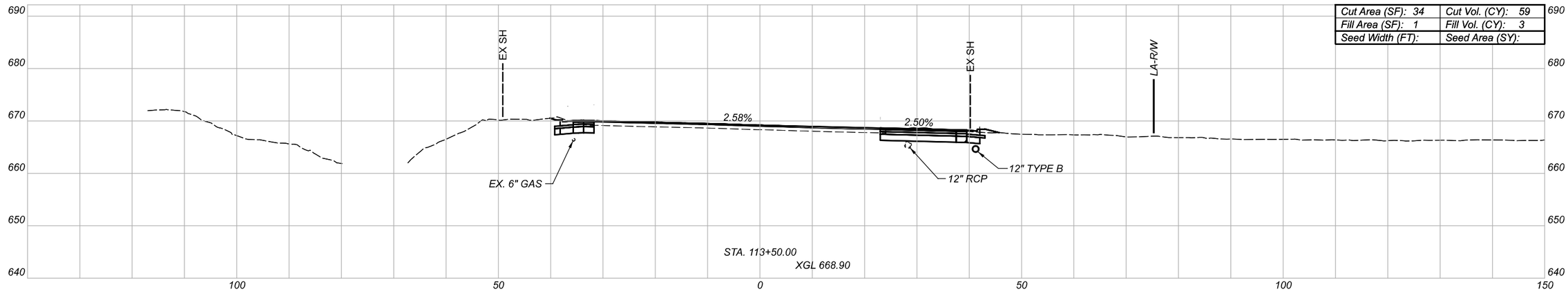
SHEET 150 TOTAL 436

WAR-63-0.83

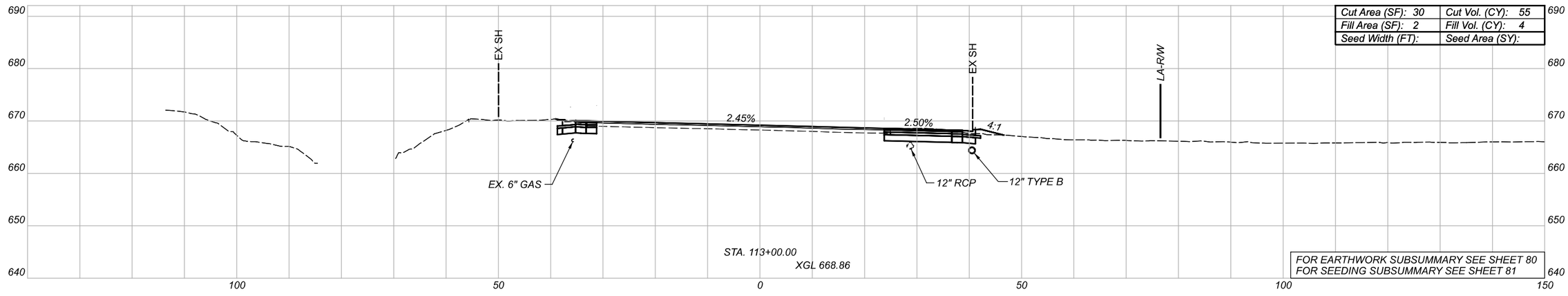
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Cut Area (SF): 29	Cut Vol. (CY): 58
Fill Area (SF): 3	Fill Vol. (CY): 4
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 34	Cut Vol. (CY): 59
Fill Area (SF): 1	Fill Vol. (CY): 3
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 30	Cut Vol. (CY): 55
Fill Area (SF): 2	Fill Vol. (CY): 4
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 113+00.00 TO STA. 114+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

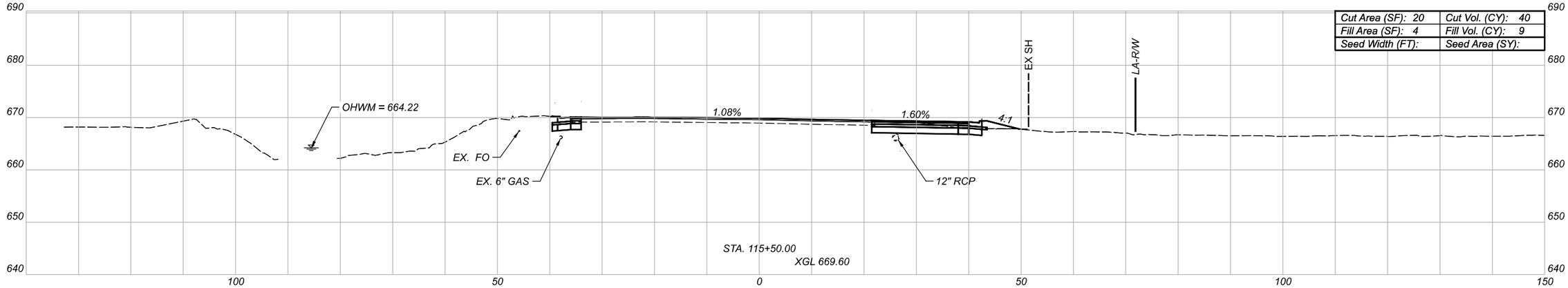
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
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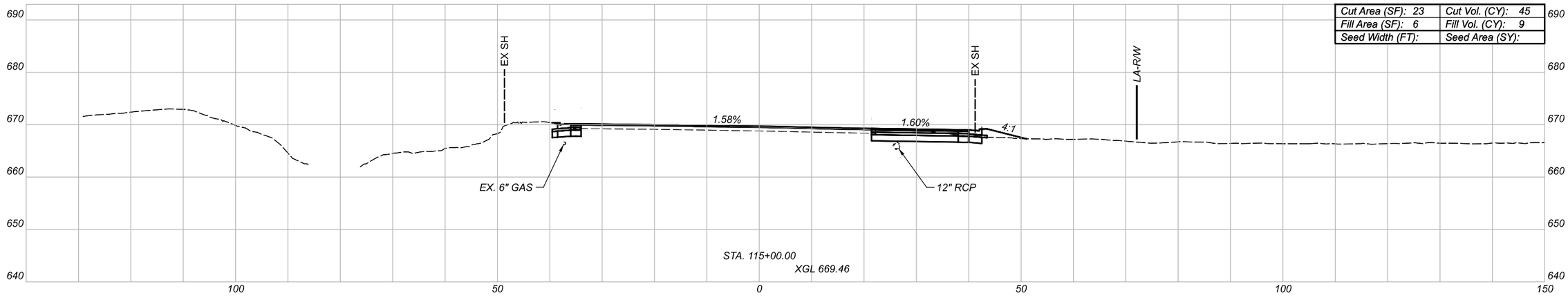
SHEET 151 TOTAL 436

WAR-63-0.83

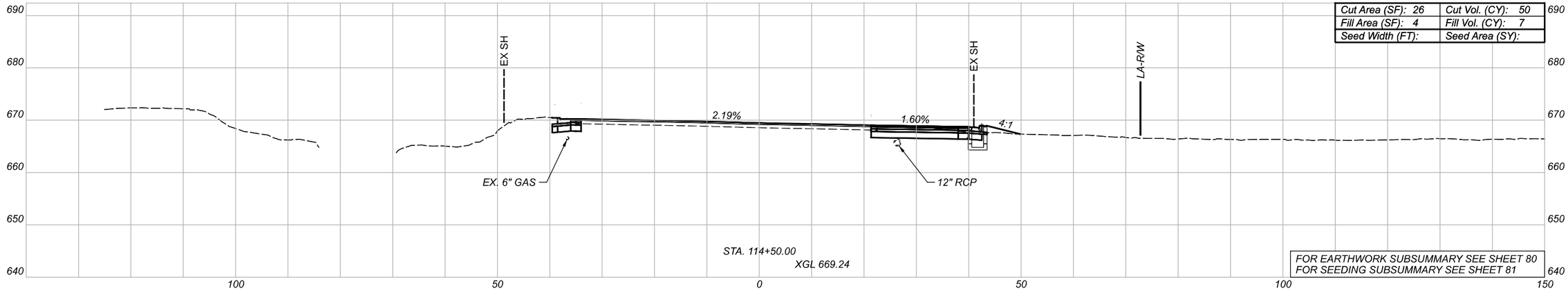
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pw:\\Project#WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn



Cut Area (SF): 20	Cut Vol. (CY): 40
Fill Area (SF): 4	Fill Vol. (CY): 9
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 23	Cut Vol. (CY): 45
Fill Area (SF): 6	Fill Vol. (CY): 9
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 26	Cut Vol. (CY): 50
Fill Area (SF): 4	Fill Vol. (CY): 7
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 114+50.00 TO STA. 115+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

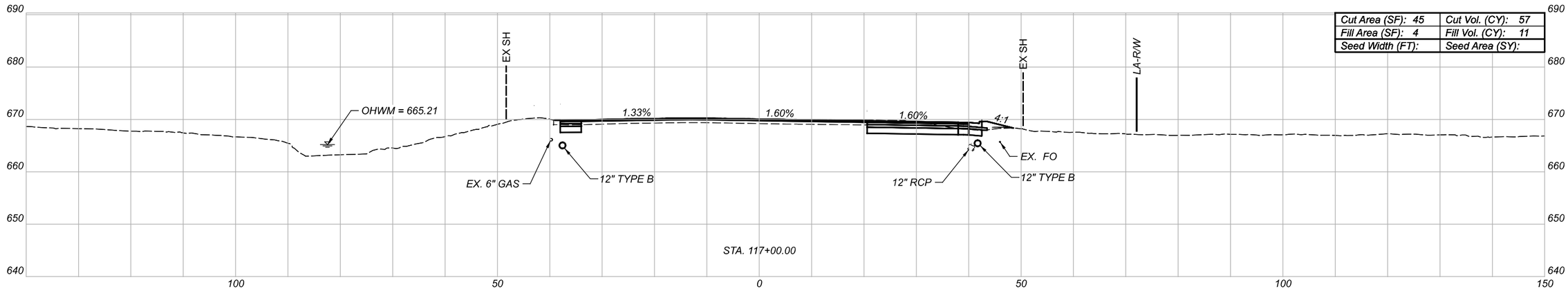
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
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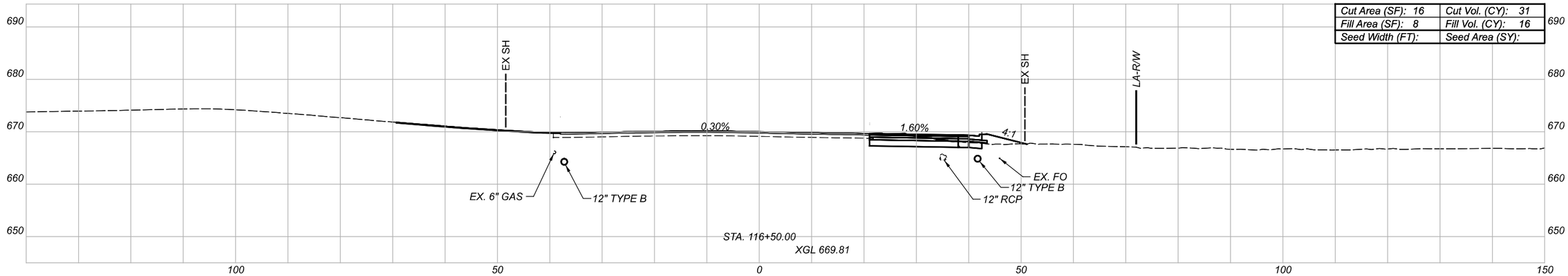
SHEET 152 TOTAL 436

WAR-63-0.83

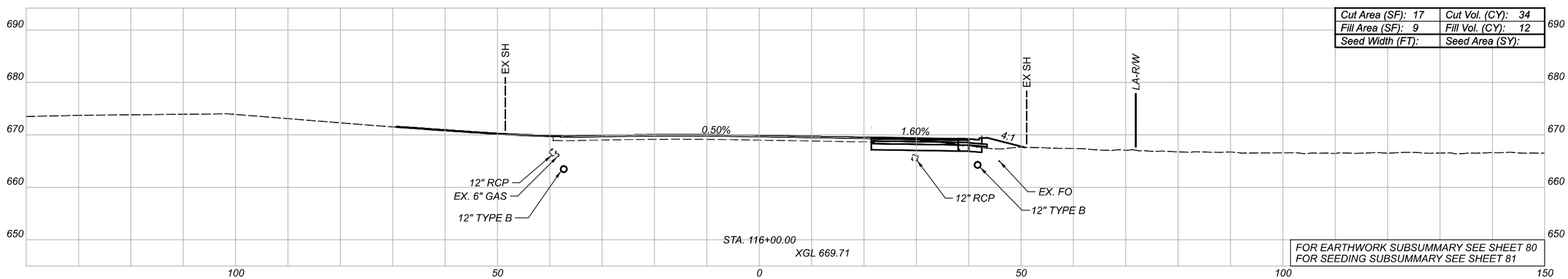
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pw:\\Project=WiseAMER.jacobs.com:DEN003\Documents\C6A8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn



Cut Area (SF): 45	Cut Vol. (CY): 57
Fill Area (SF): 4	Fill Vol. (CY): 11
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 16	Cut Vol. (CY): 31
Fill Area (SF): 8	Fill Vol. (CY): 16
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 17	Cut Vol. (CY): 34
Fill Area (SF): 9	Fill Vol. (CY): 12
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 116+00.00 TO STA. 117+00.00

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

DESIGNER
JO

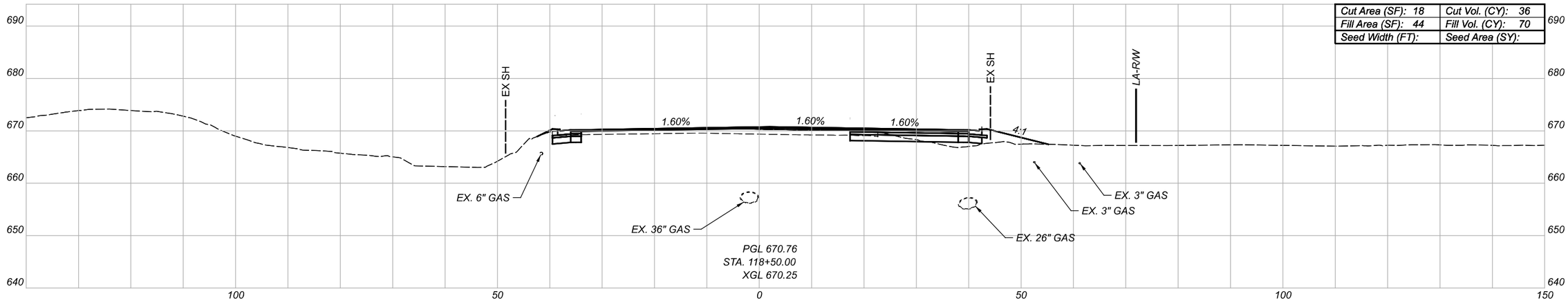
REVIEWER
RN 08/22/23

PROJECT ID
112121

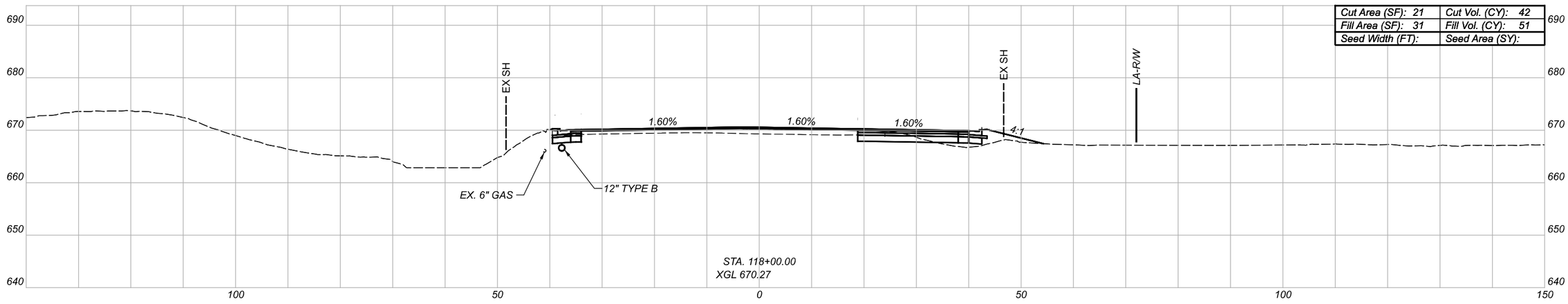
SHEET 153 TOTAL 436

WAR-63-0.83

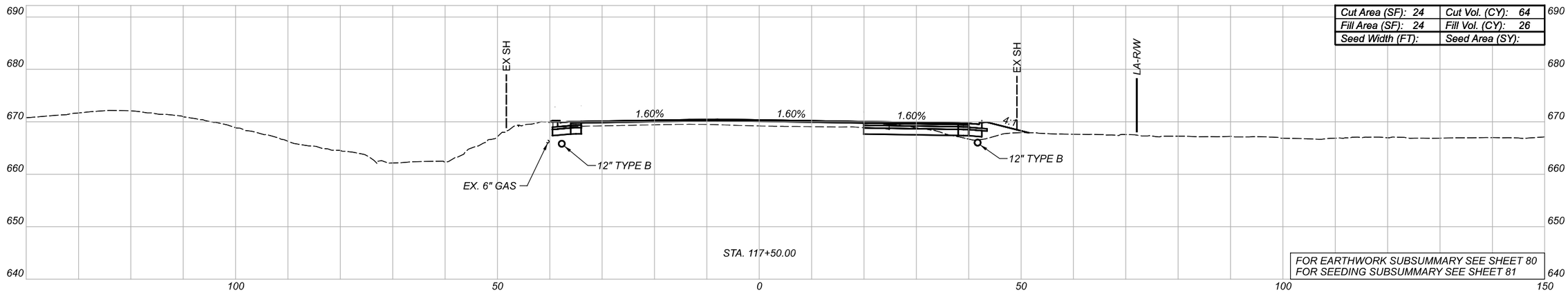
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pw:\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn



Cut Area (SF): 18	Cut Vol. (CY): 36
Fill Area (SF): 44	Fill Vol. (CY): 70
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 21	Cut Vol. (CY): 42
Fill Area (SF): 31	Fill Vol. (CY): 51
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 24	Cut Vol. (CY): 64
Fill Area (SF): 24	Fill Vol. (CY): 26
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 117+50.00 TO STA. 118+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

PROJECT ID
112121

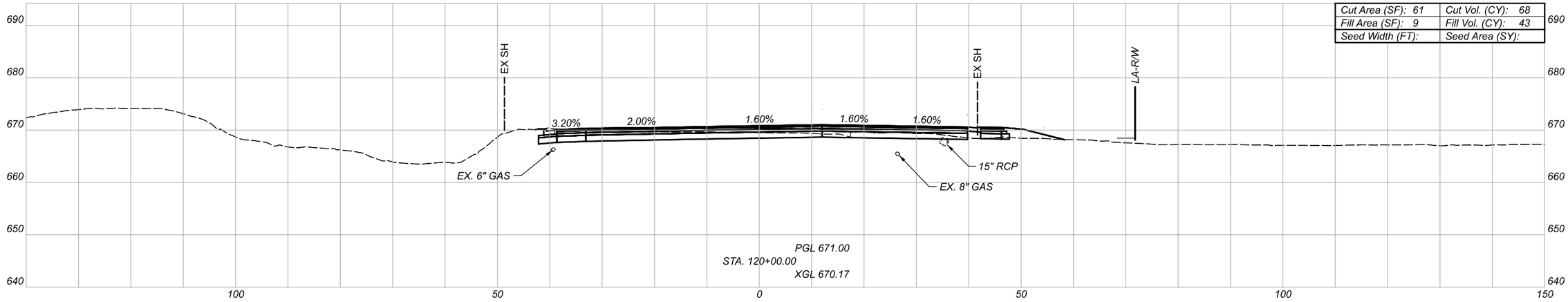
Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET 154 TOTAL 436

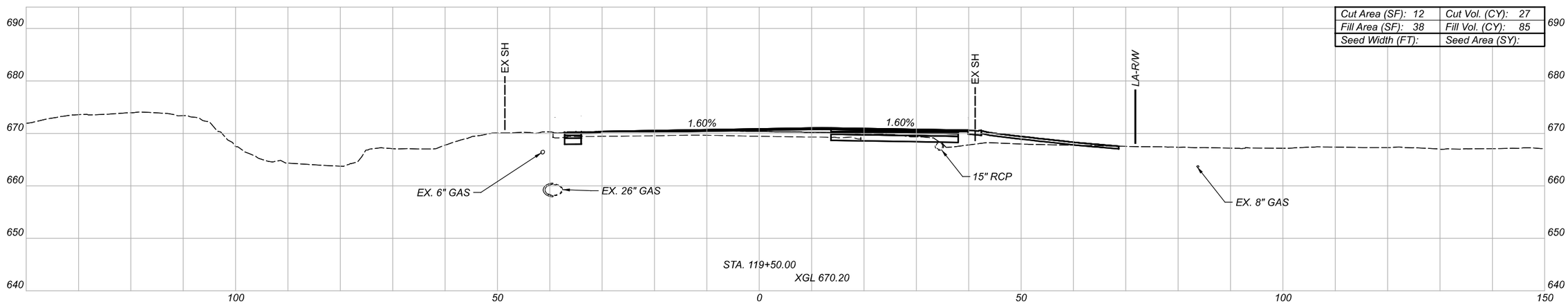
WAR-63-0.83

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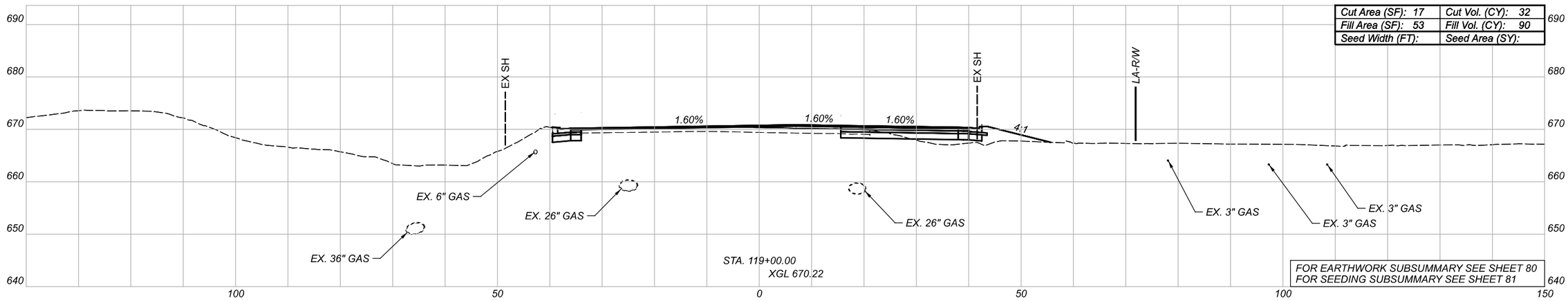
CROSS SECTIONS - SR 63
STA. 119+00.00 TO STA. 120+00.00



Cut Area (SF): 61	Cut Vol. (CY): 68
Fill Area (SF): 9	Fill Vol. (CY): 43
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 12	Cut Vol. (CY): 27
Fill Area (SF): 38	Fill Vol. (CY): 85
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 17	Cut Vol. (CY): 32
Fill Area (SF): 53	Fill Vol. (CY): 90
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

DESIGNER
JO

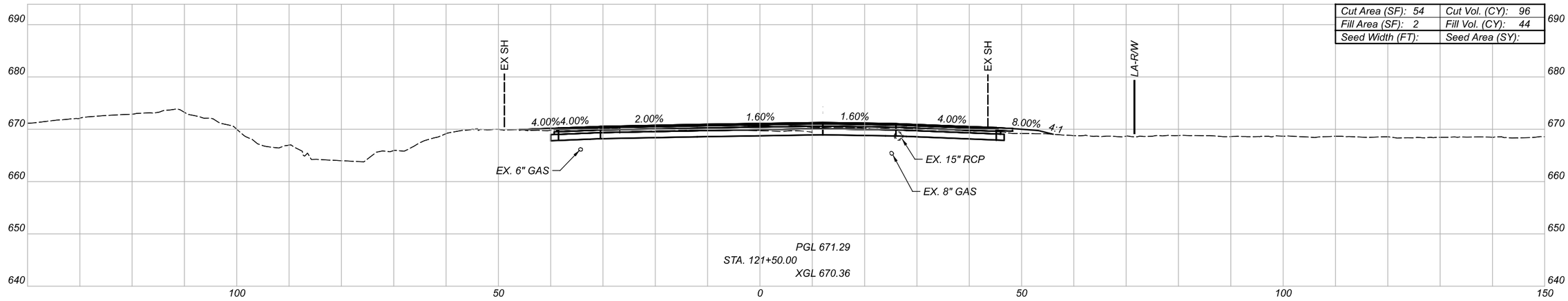
REVIEWER
RN 08/22/23

PROJECT ID
112121

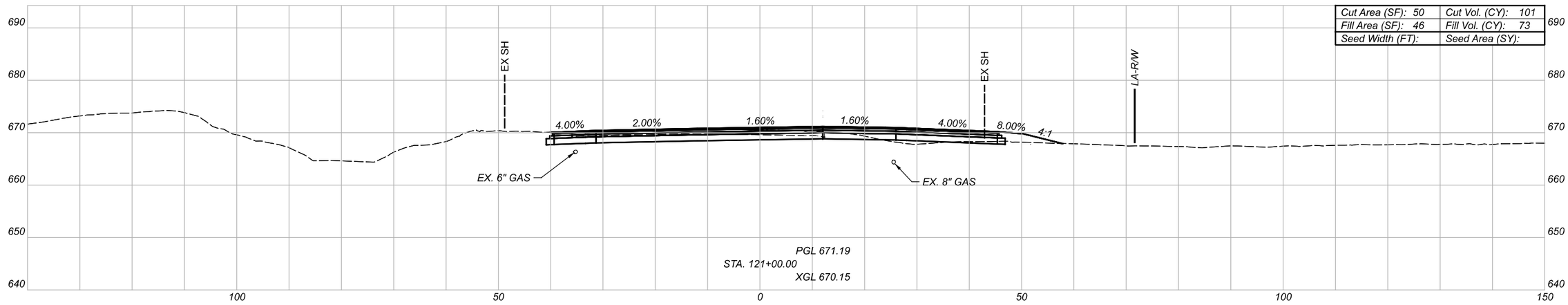
SHEET 155 TOTAL 436

WAR-63-0.83

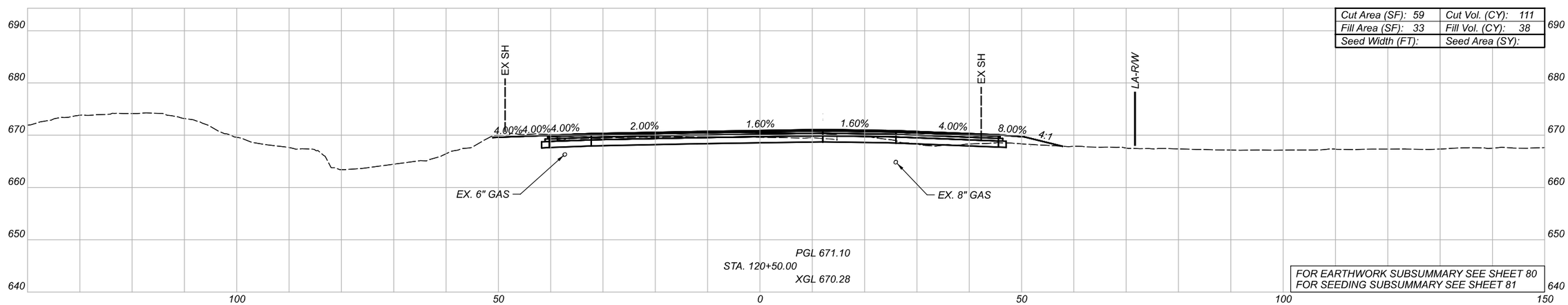
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn



Cut Area (SF): 54	Cut Vol. (CY): 96
Fill Area (SF): 2	Fill Vol. (CY): 44
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 50	Cut Vol. (CY): 101
Fill Area (SF): 46	Fill Vol. (CY): 73
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 59	Cut Vol. (CY): 111
Fill Area (SF): 33	Fill Vol. (CY): 38
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 120+50.00 TO STA. 121+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

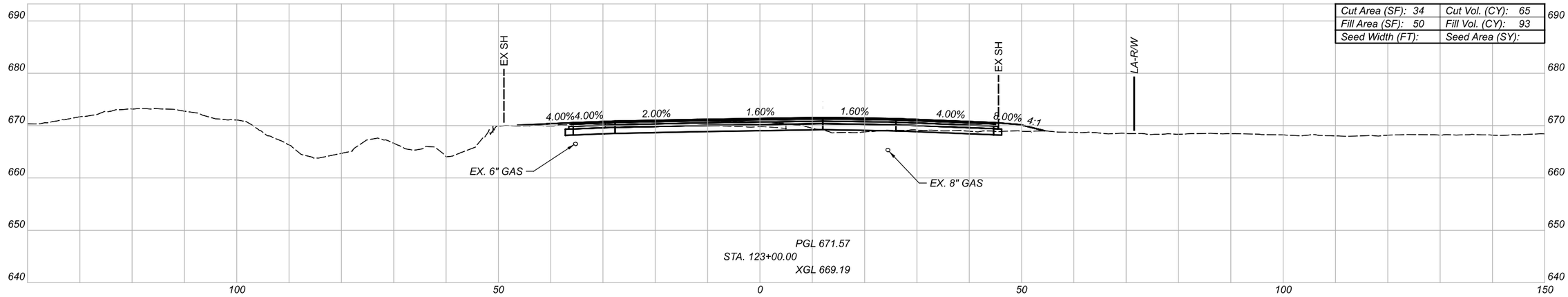
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET 156 TOTAL 436

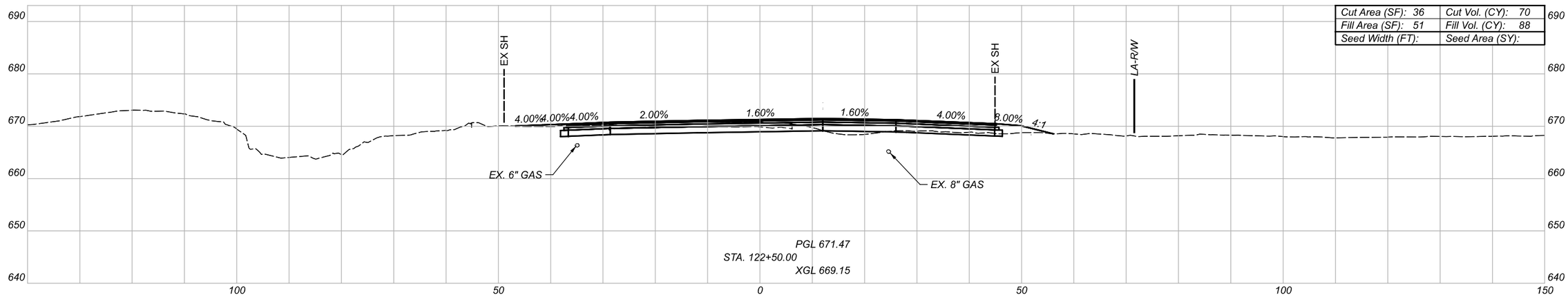
WAR-63-0.83

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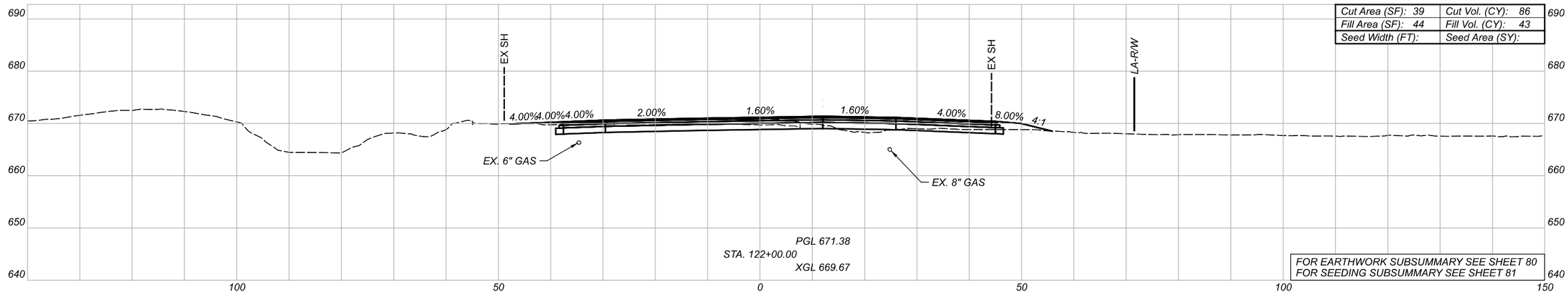
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Fill Area (SF): 50	Fill Vol. (CY): 93
Seed Width (FT):	Seed Area (SY):

PGL 671.57
STA. 123+00.00
XGL 669.19



Cut Area (SF): 36	Cut Vol. (CY): 70
Fill Area (SF): 51	Fill Vol. (CY): 88
Seed Width (FT):	Seed Area (SY):

PGL 671.47
STA. 122+50.00
XGL 669.15



Cut Area (SF): 39	Cut Vol. (CY): 86
Fill Area (SF): 44	Fill Vol. (CY): 43
Seed Width (FT):	Seed Area (SY):

PGL 671.38
STA. 122+00.00
XGL 669.67

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 122+00.00 TO STA. 123+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

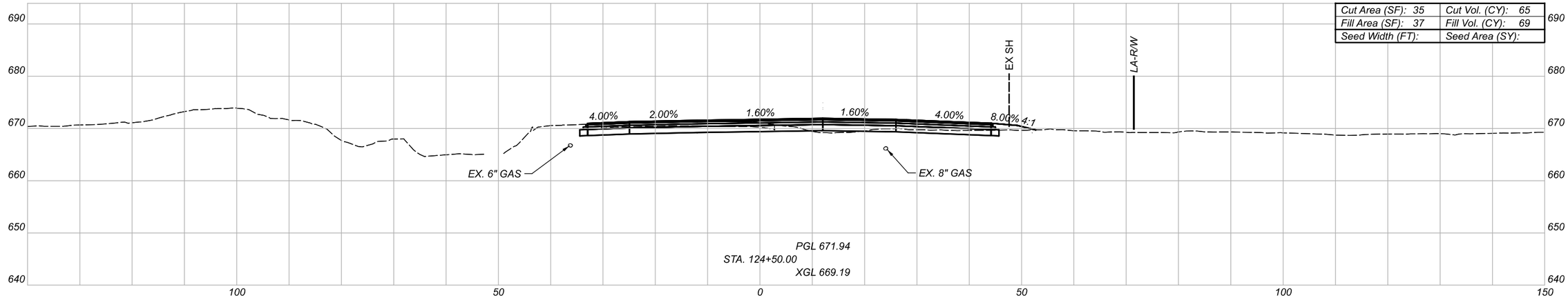
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

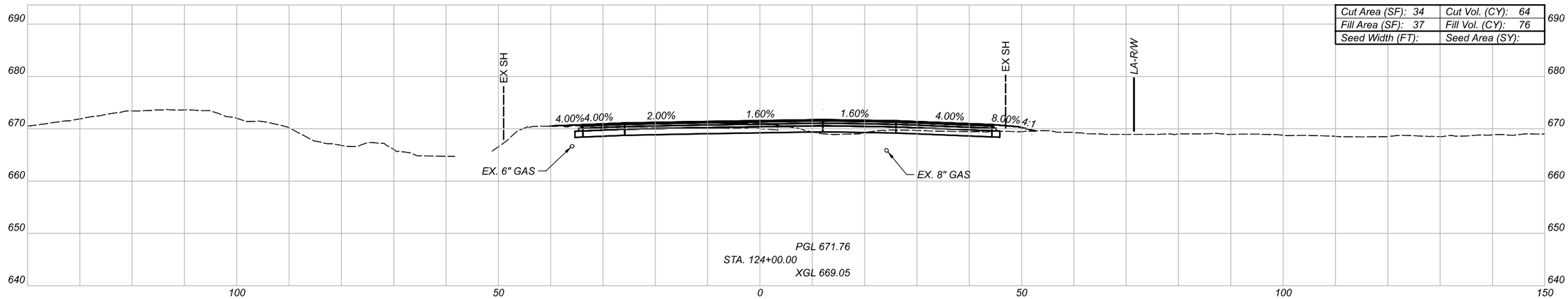
SHEET 157 TOTAL 436

WAR-63-0.83

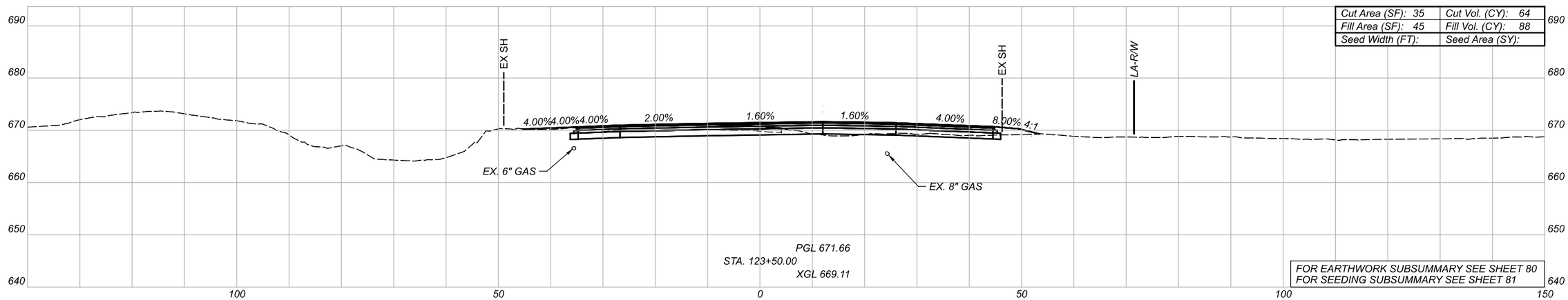
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pw:\ProjectWiseAMER.Jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn



Cut Area (SF): 35	Cut Vol. (CY): 65
Fill Area (SF): 37	Fill Vol. (CY): 69
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 34	Cut Vol. (CY): 64
Fill Area (SF): 37	Fill Vol. (CY): 76
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 35	Cut Vol. (CY): 64
Fill Area (SF): 45	Fill Vol. (CY): 88
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 123+50.00 TO STA. 124+50.00

DESIGN AGENCY
JACOBS

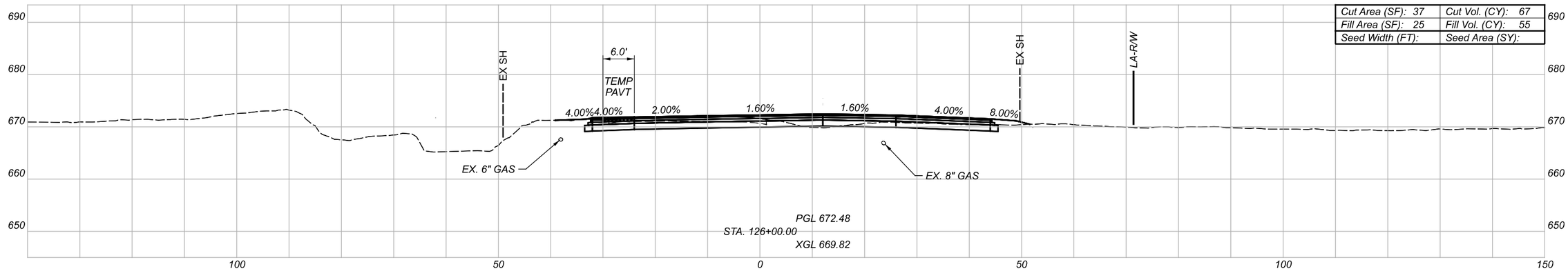
DESIGNER	JO
REVIEWER	RN 08/22/23
PROJECT ID	112121

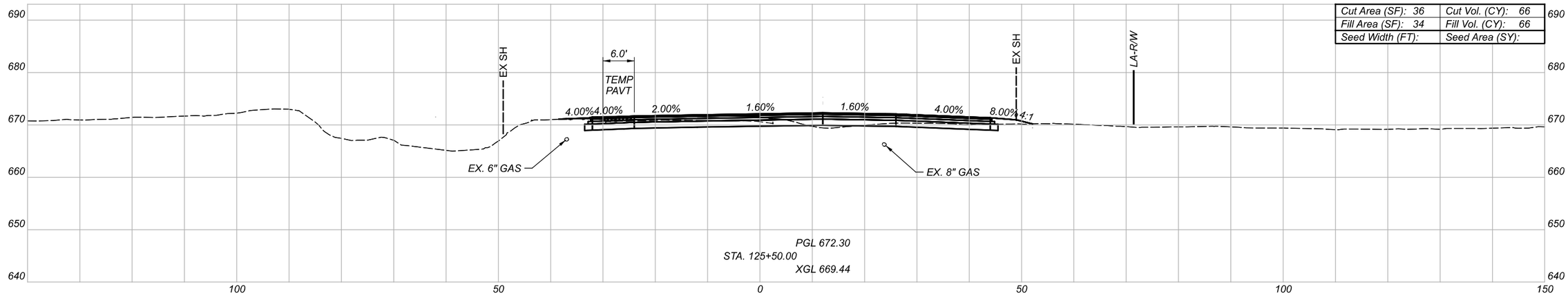
Sheet Totals		
Seeding	Cut	Fill
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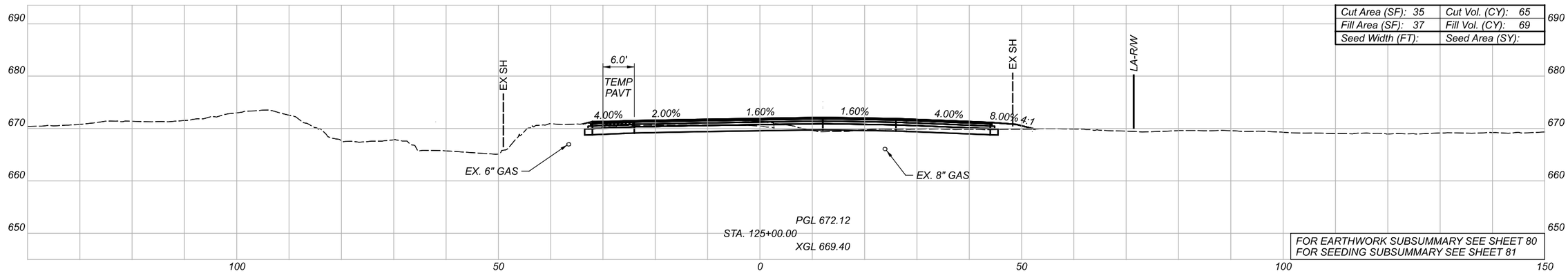
SHEET	TOTAL
158	436

WAR-63-0.83

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CROSS SECTIONS - SR 63
STA. 125+00.00 TO STA. 126+00.00

WAR-63-0.83

MODEL: CLP_SR63 - I25+00.00 [Sheet] PAPERSIZE: ltxl(in) DATE: 8/23/2023 TIME: 2:34:18 PM USER: Tahir.Sondo@Jacobs.com
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DESIGN AGENCY
JACOBS

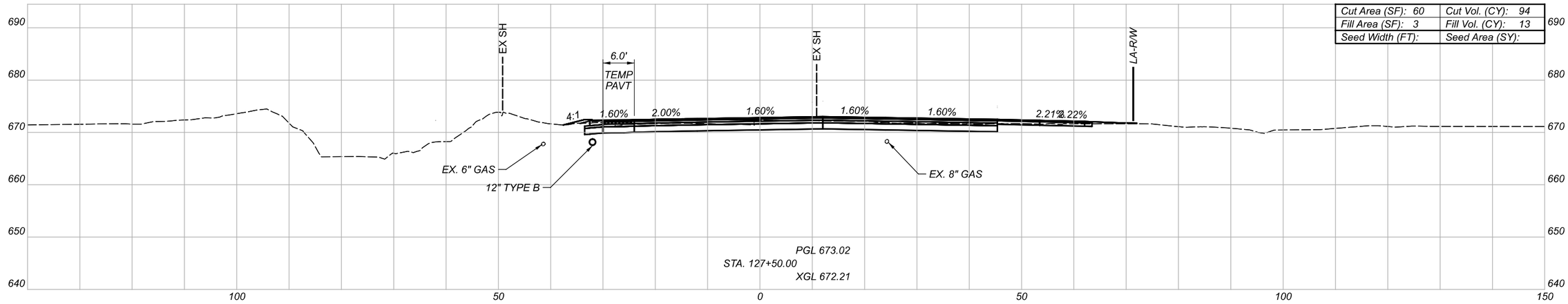
DESIGNER
JO

REVIEWER
RN 08/22/23

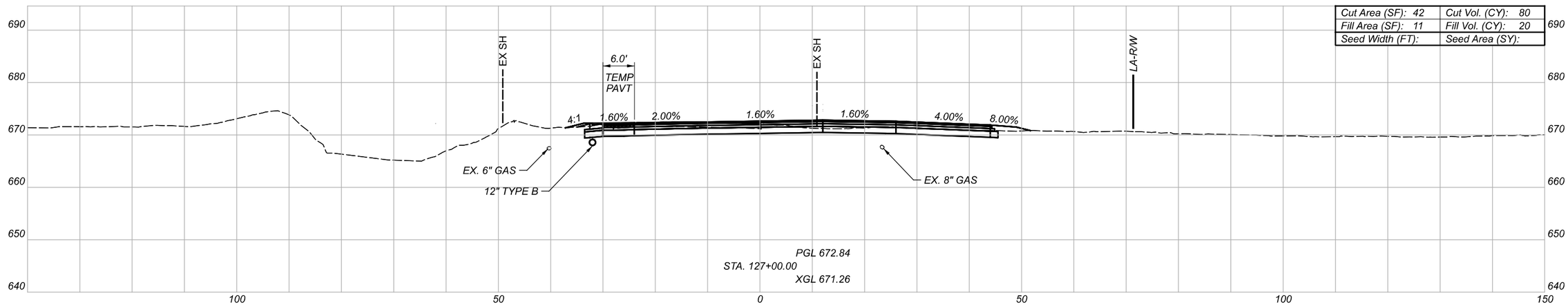
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
-	-	-

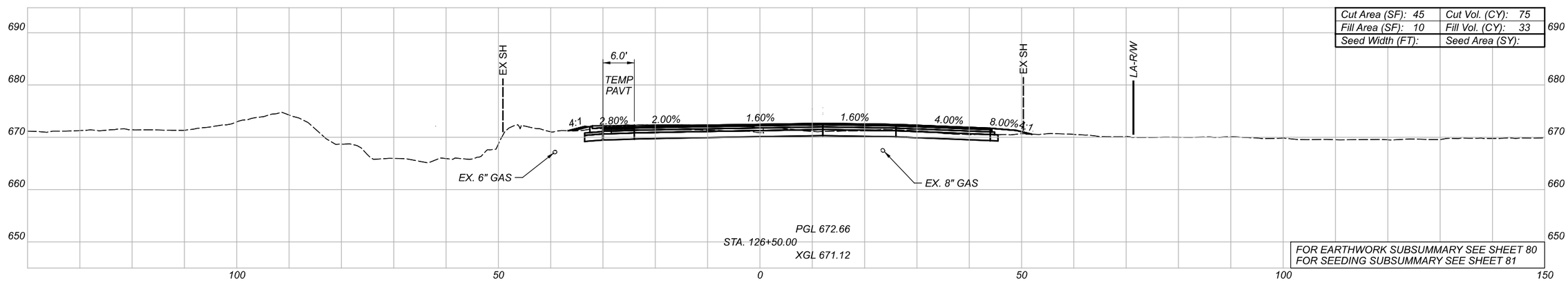
SHEET 159 TOTAL 436



Cut Area (SF): 60	Cut Vol. (CY): 94
Fill Area (SF): 3	Fill Vol. (CY): 13
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 42	Cut Vol. (CY): 80
Fill Area (SF): 11	Fill Vol. (CY): 20
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 45	Cut Vol. (CY): 75
Fill Area (SF): 10	Fill Vol. (CY): 33
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 126+50.00 TO STA. 127+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

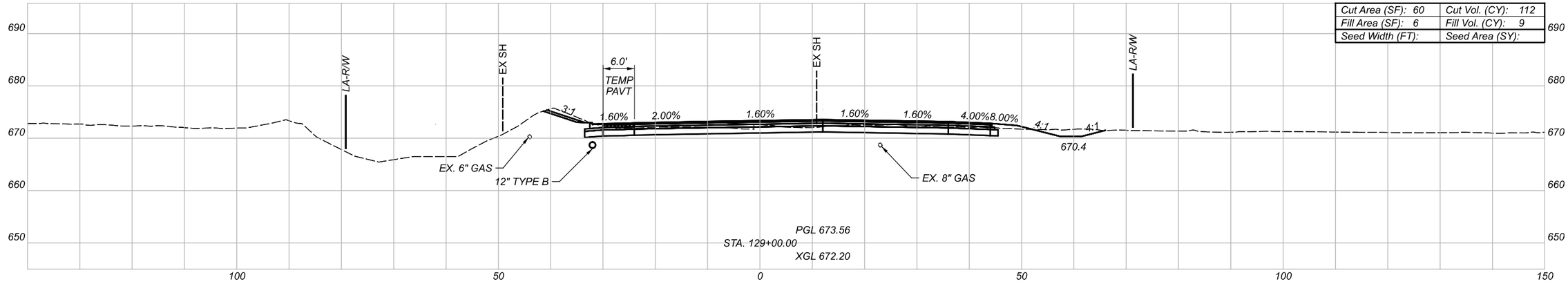
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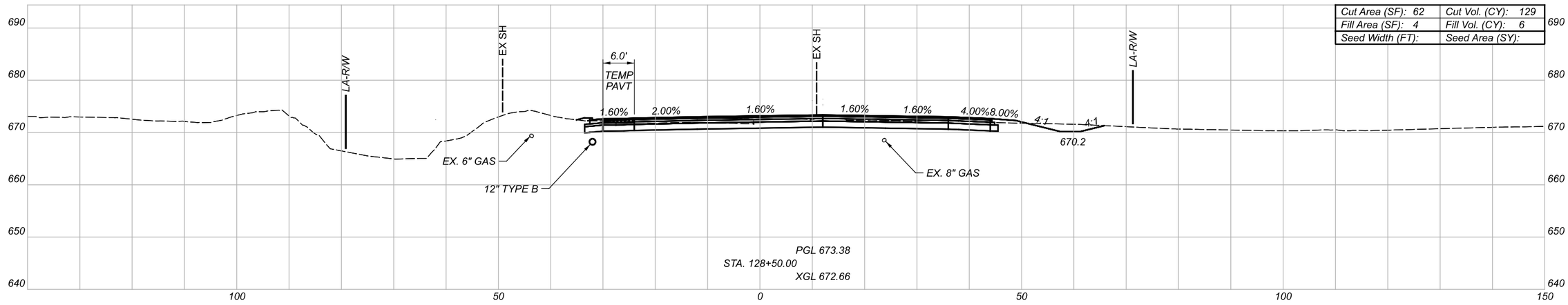
Sheet Totals		
Seeding	Cut	Fill
-	-	-

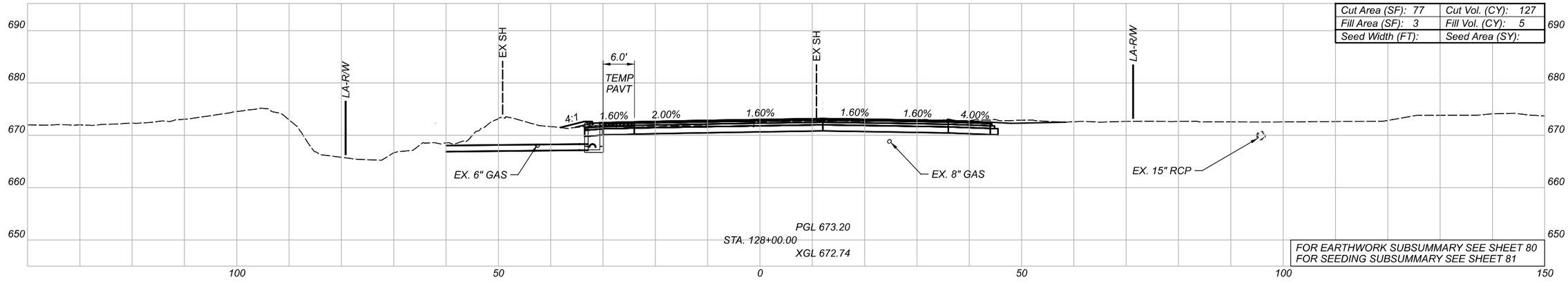
SHEET 160 TOTAL 436

WAR-63-0.83

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FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 128+00.00 TO STA. 129+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

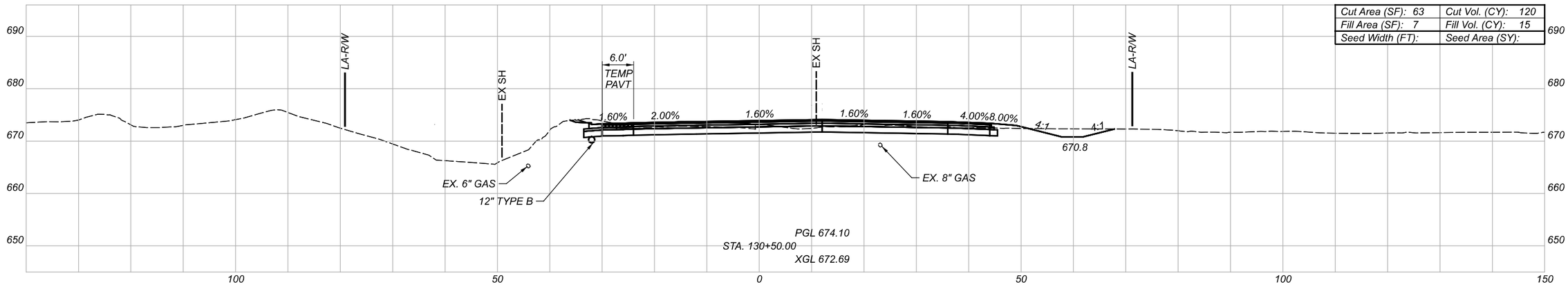
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
-	-	-

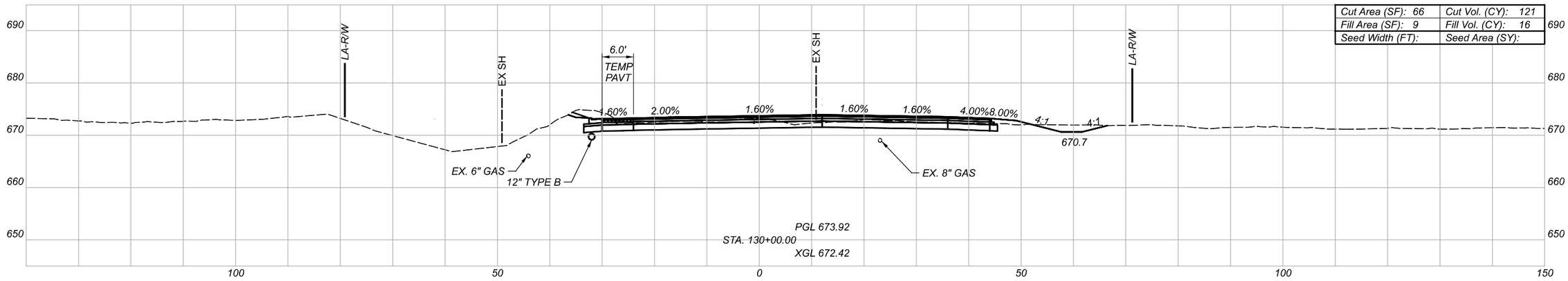
SHEET 161 TOTAL 436

WAR-63-0.83

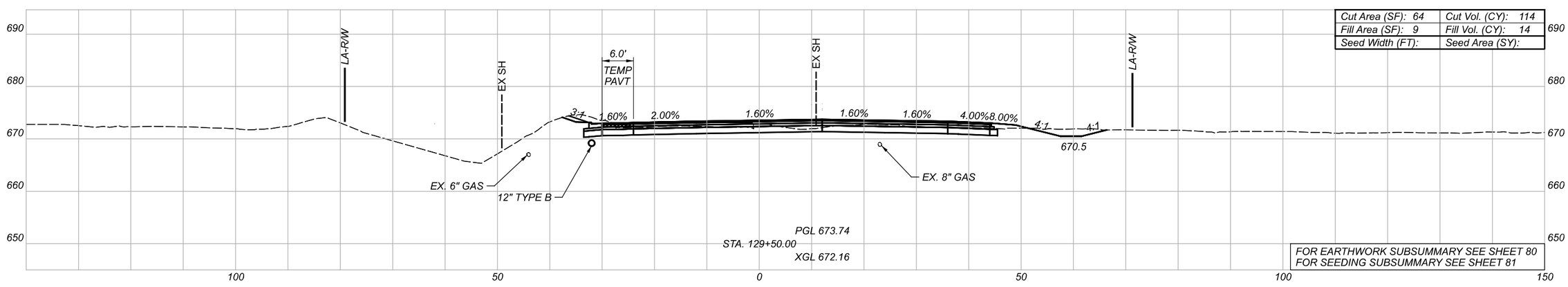
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn



Cut Area (SF): 63	Cut Vol. (CY): 120
Fill Area (SF): 7	Fill Vol. (CY): 15
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 66	Cut Vol. (CY): 121
Fill Area (SF): 9	Fill Vol. (CY): 16
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 64	Cut Vol. (CY): 114
Fill Area (SF): 9	Fill Vol. (CY): 14
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 129+50.00 TO STA. 130+50.00

DESIGN AGENCY
JACOBS

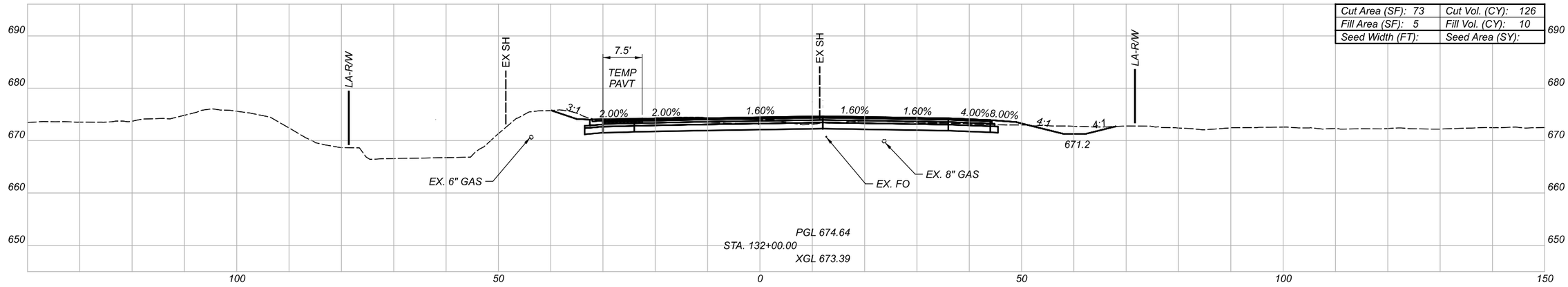
DESIGNER	JO
REVIEWER	RN 08/22/23
PROJECT ID	112121

Sheet Totals		
Seeding	Cut	Fill
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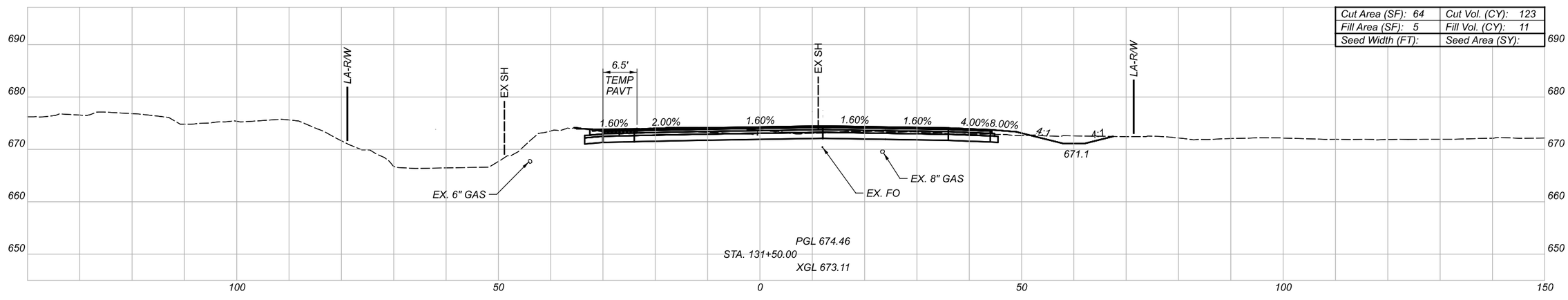
SHEET	TOTAL
162	436

WAR-63-0.83

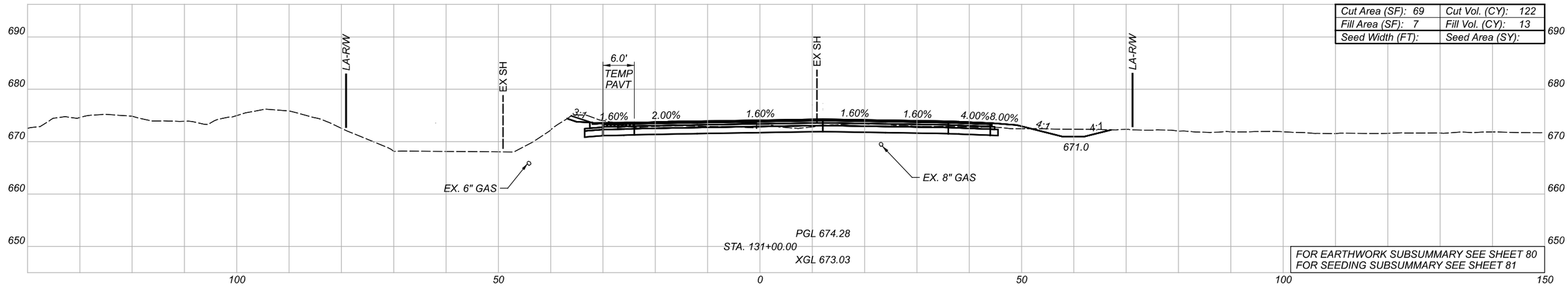
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6AI8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn



Cut Area (SF): 73	Cut Vol. (CY): 126
Fill Area (SF): 5	Fill Vol. (CY): 10
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 64	Cut Vol. (CY): 123
Fill Area (SF): 5	Fill Vol. (CY): 11
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 69	Cut Vol. (CY): 122
Fill Area (SF): 7	Fill Vol. (CY): 13
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 131+00.00 TO STA. 132+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

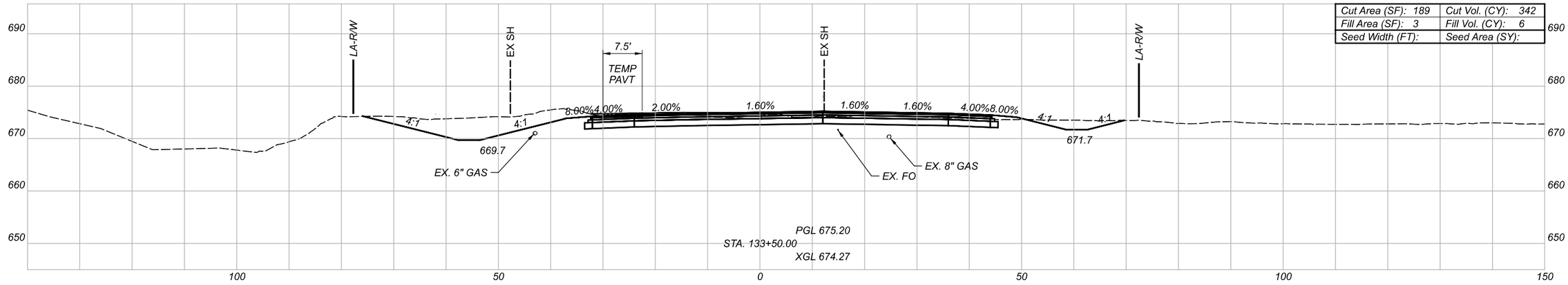
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
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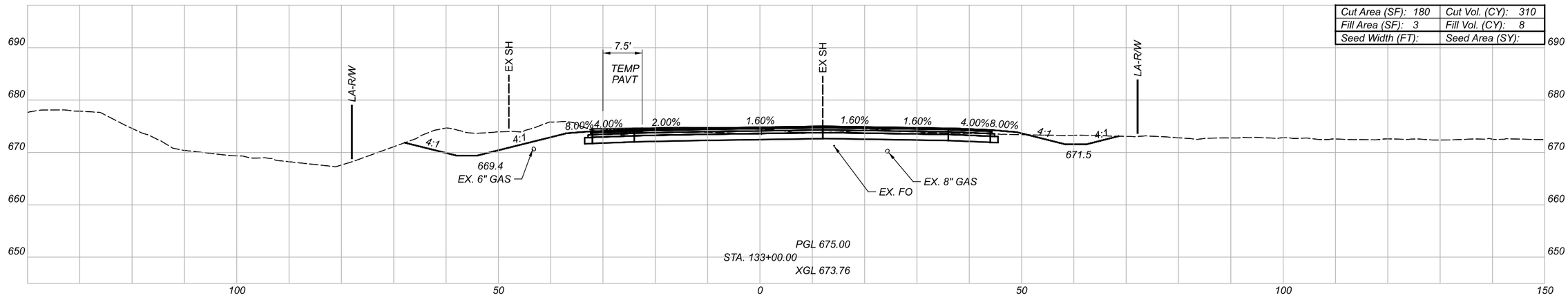
SHEET 163 TOTAL 436

WAR-63-0.83

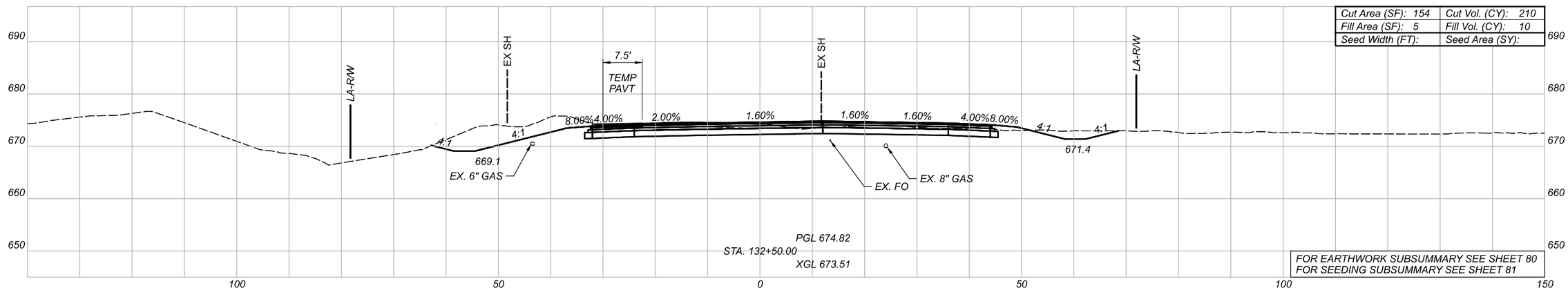
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn



Cut Area (SF): 189	Cut Vol. (CY): 342
Fill Area (SF): 3	Fill Vol. (CY): 6
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 180	Cut Vol. (CY): 310
Fill Area (SF): 3	Fill Vol. (CY): 8
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 154	Cut Vol. (CY): 210
Fill Area (SF): 5	Fill Vol. (CY): 10
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 132+50.00 TO STA. 133+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

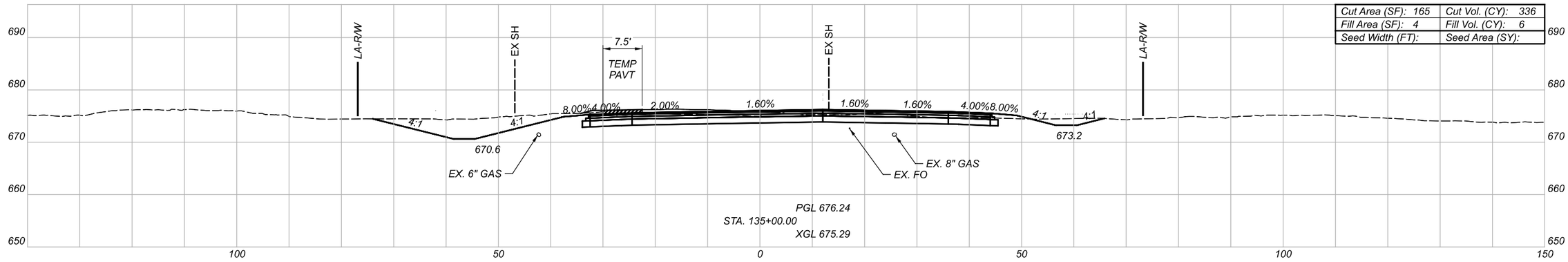
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

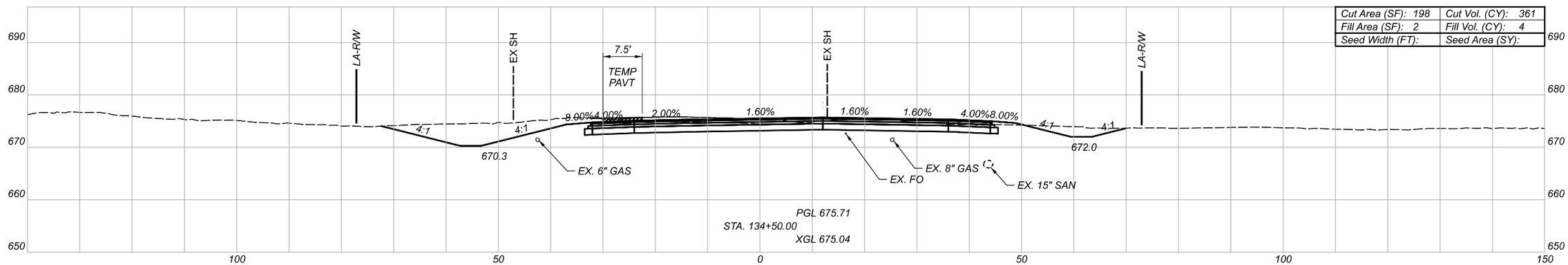
SHEET 164 TOTAL 436

WAR-63-0.83

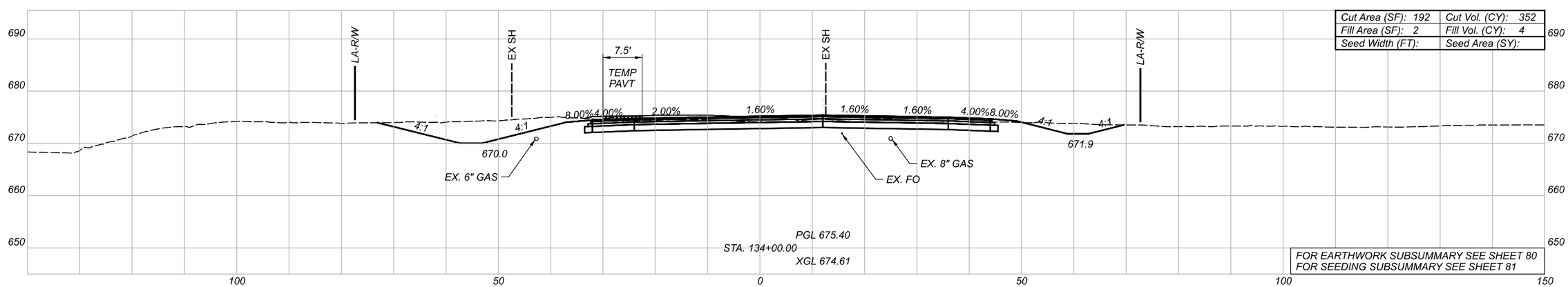
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn



Cut Area (SF): 165	Cut Vol. (CY): 336
Fill Area (SF): 4	Fill Vol. (CY): 6
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 198	Cut Vol. (CY): 361
Fill Area (SF): 2	Fill Vol. (CY): 4
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 192	Cut Vol. (CY): 352
Fill Area (SF): 2	Fill Vol. (CY): 4
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 134+00.00 TO STA. 135+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

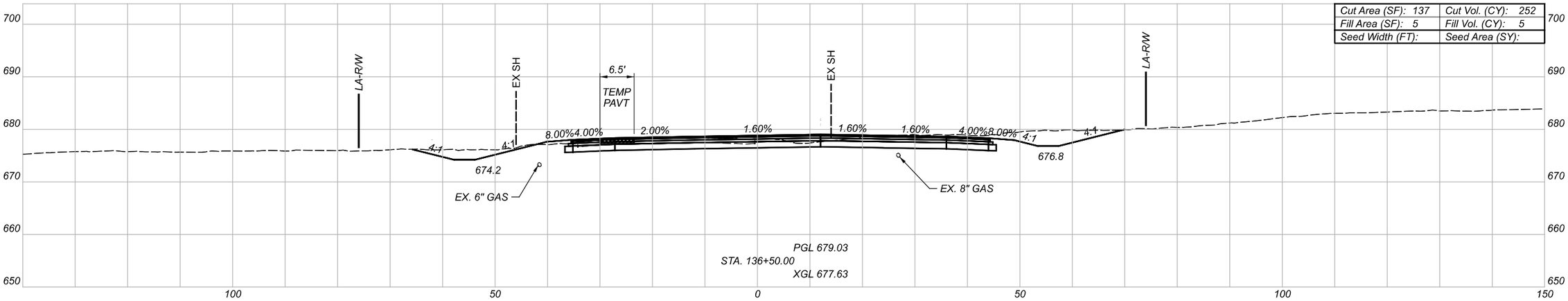
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
-	-	-

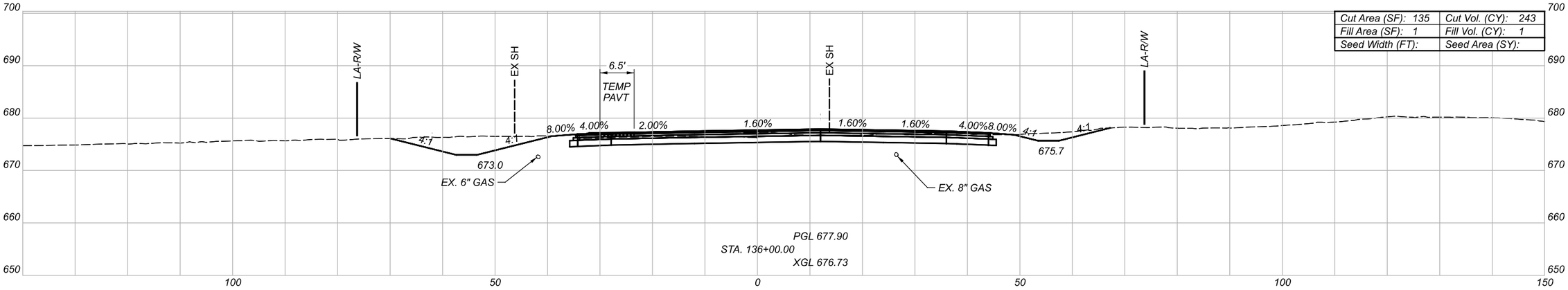
SHEET 165 TOTAL 436

WAR-63-0.83

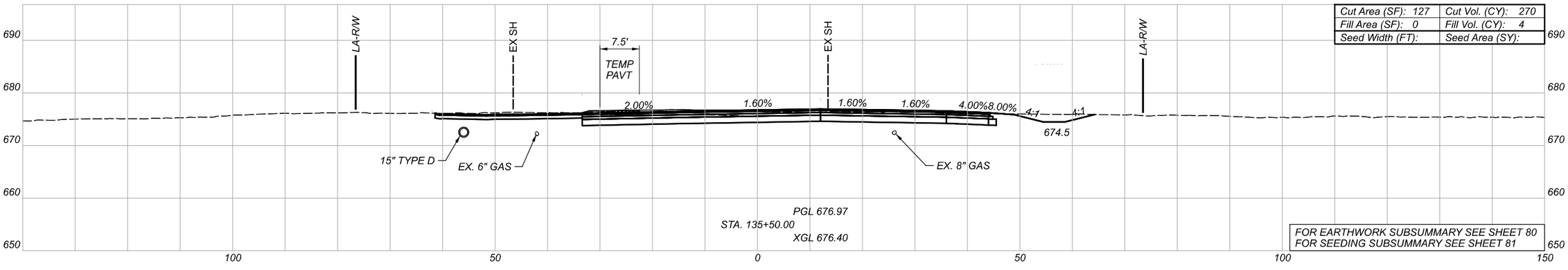
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn



Cut Area (SF): 137	Cut Vol. (CY): 252
Fill Area (SF): 5	Fill Vol. (CY): 5
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 135	Cut Vol. (CY): 243
Fill Area (SF): 1	Fill Vol. (CY): 1
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 127	Cut Vol. (CY): 270
Fill Area (SF): 0	Fill Vol. (CY): 4
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 135+50.00 TO STA. 136+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

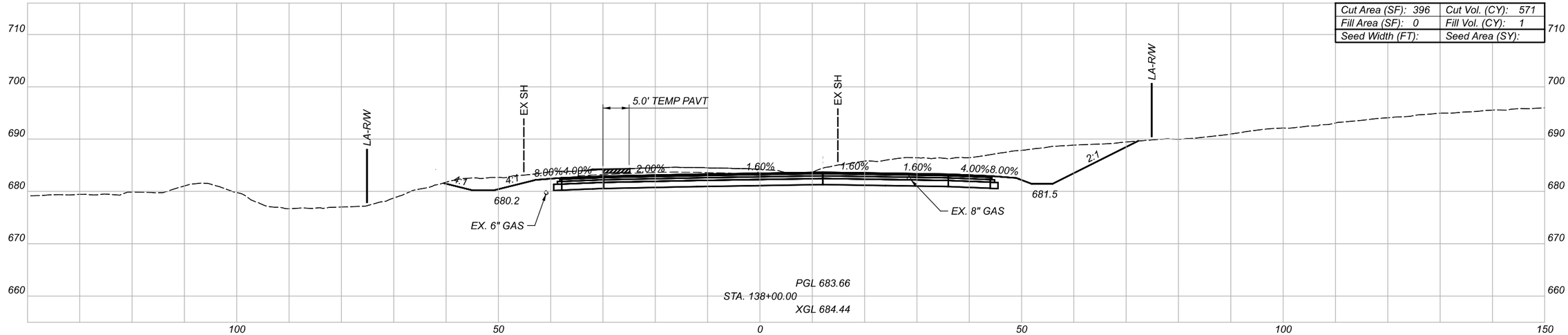
PROJECT ID
112121

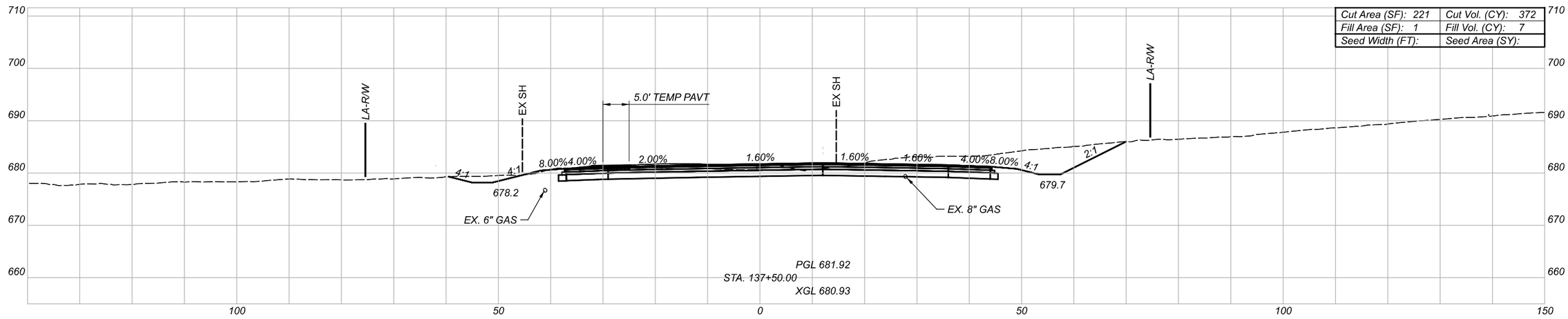
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Seeding	Cut	Fill
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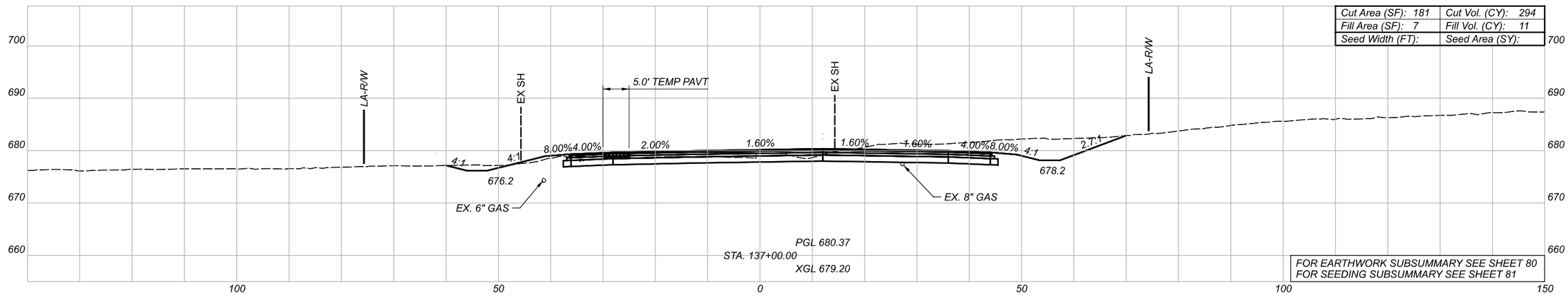
SHEET 166 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - 135+50.00 [Sheet] PAPERSIZE: 17x11in) DATE: 8/23/2023 TIME: 2:38:01 PM USER: Tahir.Sondo@jacobs.com
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FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 137+00.00 TO STA. 138+00.00

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

DESIGNER
JO

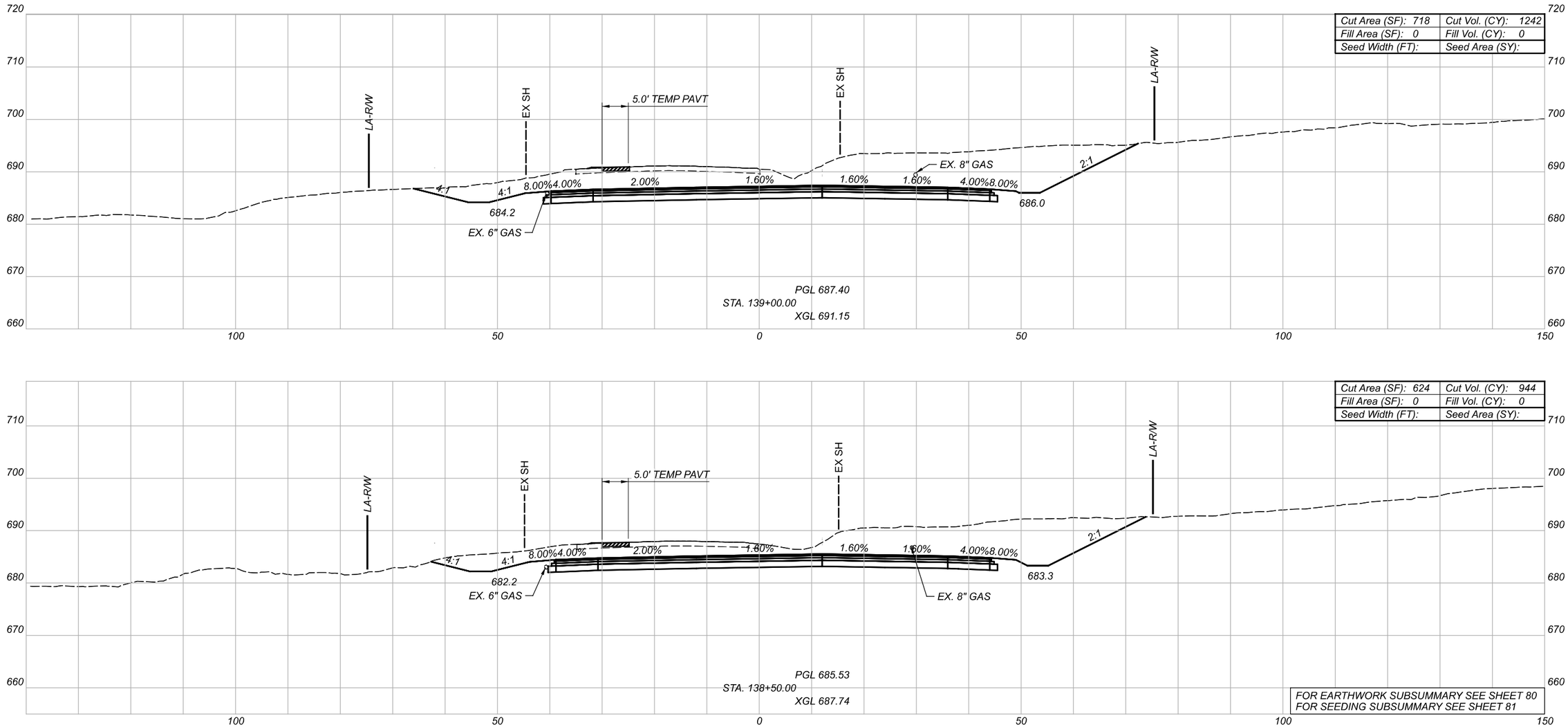
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 167 TOTAL 436

WAR-63-0.83

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CROSS SECTIONS - SR 63
STA. 138+50.00 TO STA. 139+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

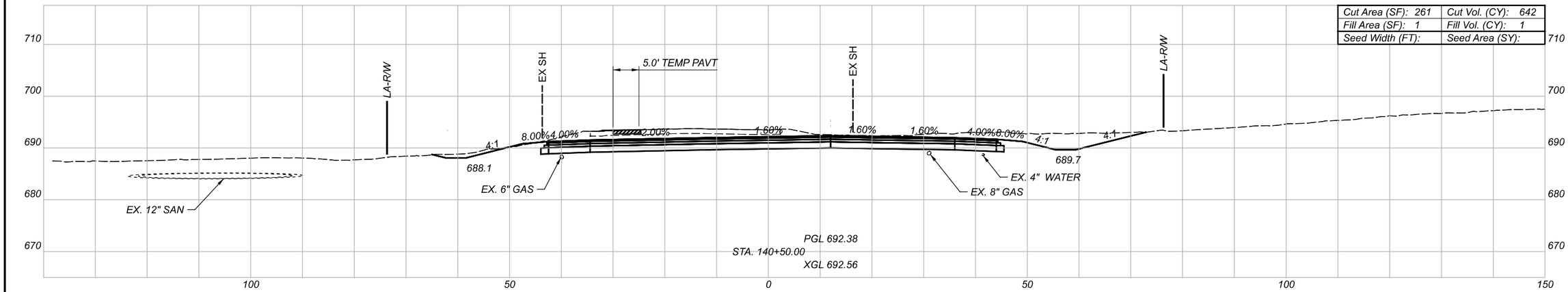
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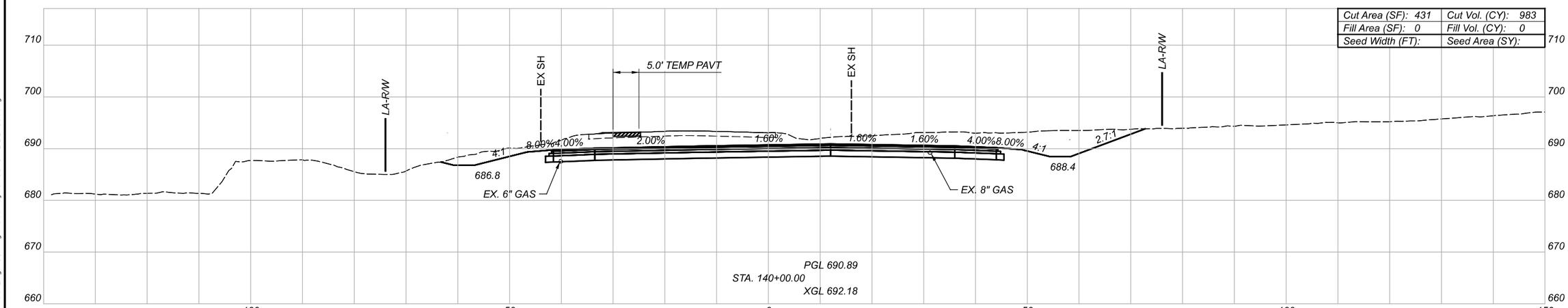
Sheet Totals		
Seeding	Cut	Fill
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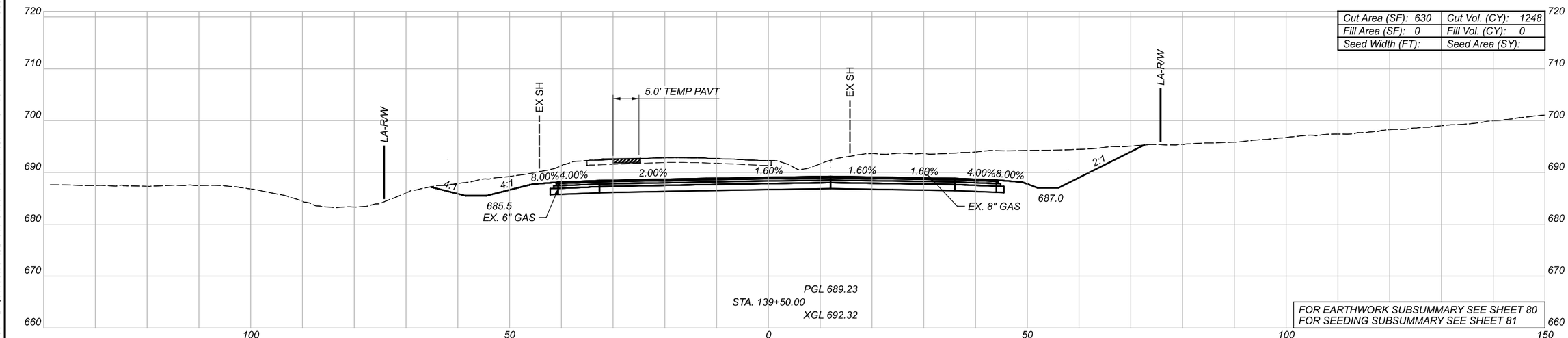
SHEET	TOTAL
168	436

WAR-63-0.83

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CROSS SECTIONS - SR 63
STA. 139+50.00 TO STA. 140+50.00

DESIGN AGENCY
JACOBS

DESIGNER	REVIEWER
JO	RN 08/22/23

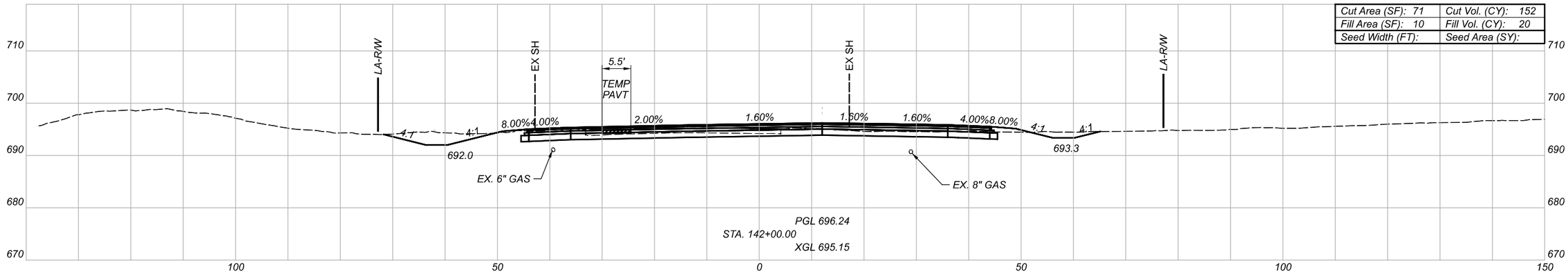
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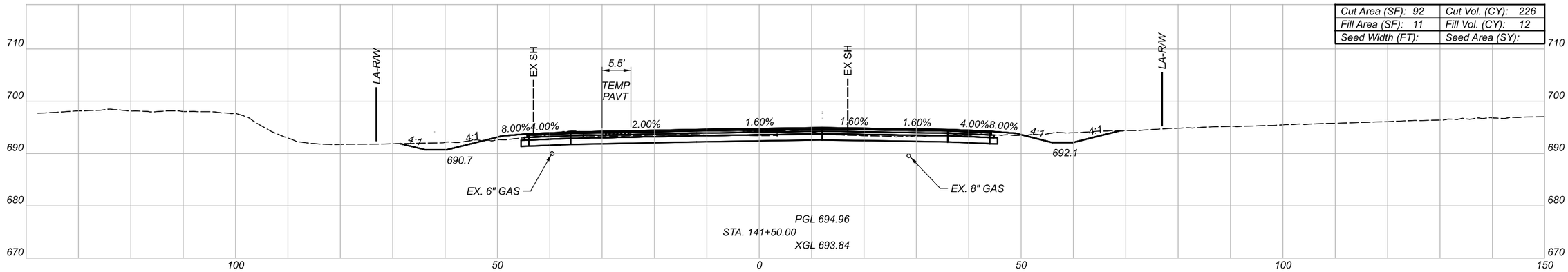
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Seeding	Cut	Fill
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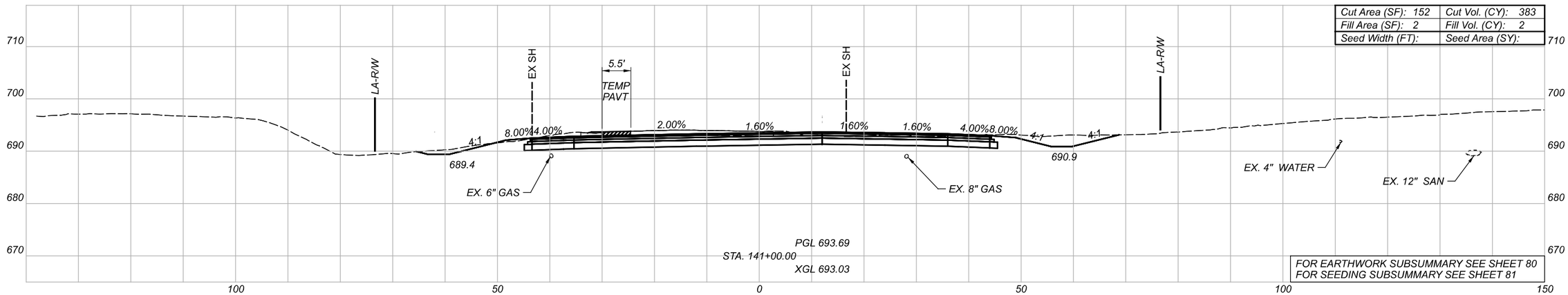
SHEET	TOTAL
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WAR-63-0.83

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CROSS SECTIONS - SR 63
STA. 141+00.00 TO STA. 142+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

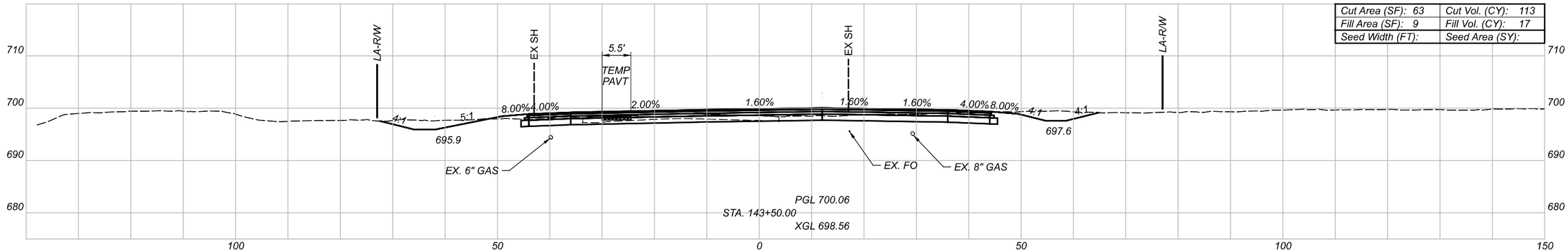
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
-	-	-

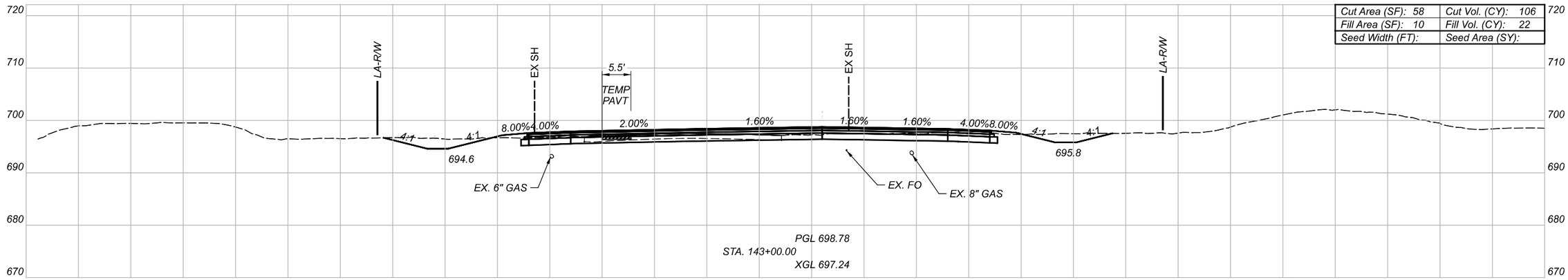
SHEET 170 TOTAL 436

WAR-63-0.83

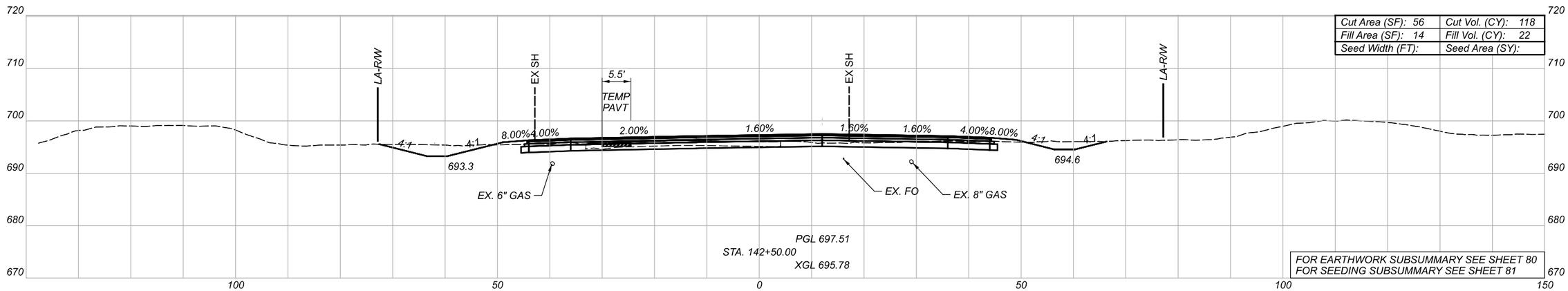
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Cut Area (SF): 63	Cut Vol. (CY): 113
Fill Area (SF): 9	Fill Vol. (CY): 17
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 58	Cut Vol. (CY): 106
Fill Area (SF): 10	Fill Vol. (CY): 22
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 56	Cut Vol. (CY): 118
Fill Area (SF): 14	Fill Vol. (CY): 22
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 142+50.00 TO STA. 143+50.00

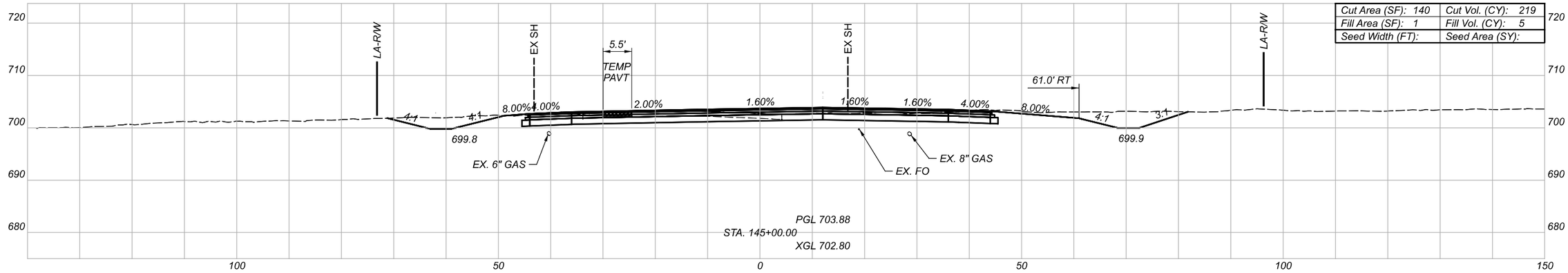
Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

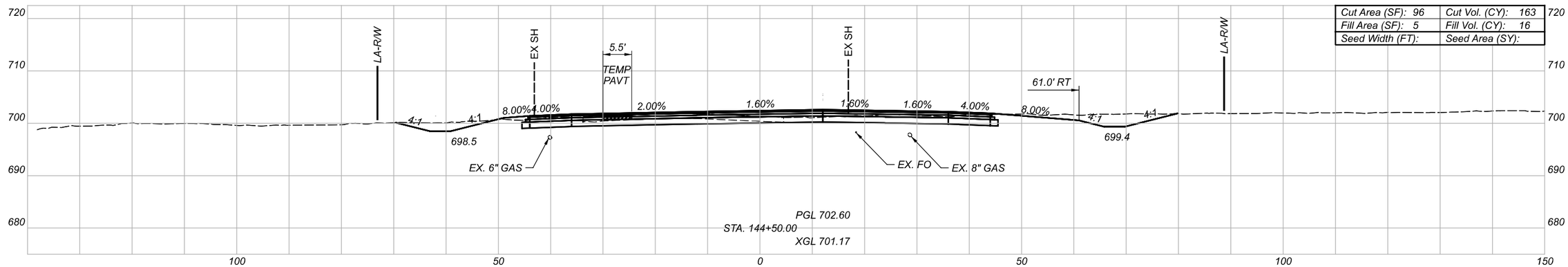
DESIGNER JO
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 171 TOTAL 436

WAR-63-0.83

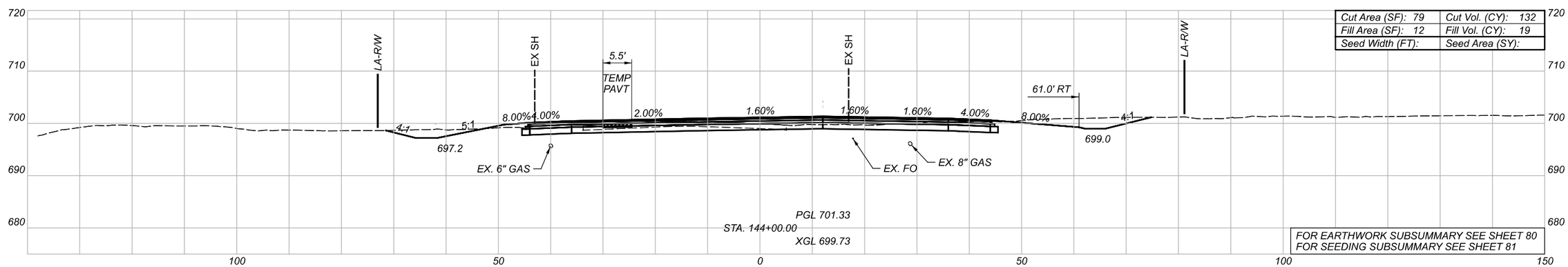
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A8200 - SR 63 Reconstruction\Design\1121211400-Engineering\Roadway\Sheets\1121211_XS001.dgn



Cut Area (SF): 140	Cut Vol. (CY): 219
Fill Area (SF): 1	Fill Vol. (CY): 5
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 96	Cut Vol. (CY): 163
Fill Area (SF): 5	Fill Vol. (CY): 16
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 79	Cut Vol. (CY): 132
Fill Area (SF): 12	Fill Vol. (CY): 19
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 144+00.00 TO STA. 145+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

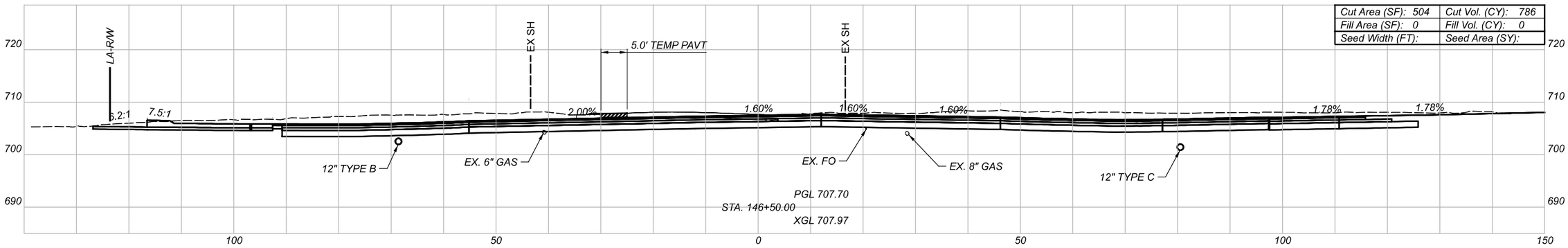
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

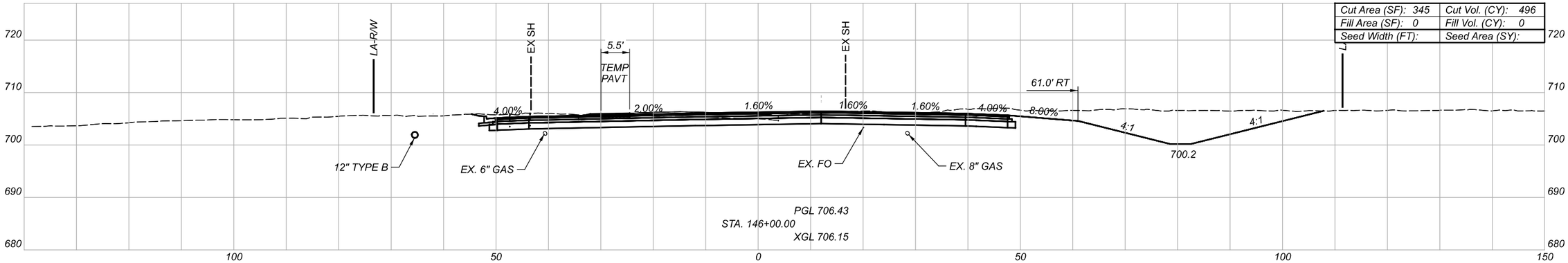
SHEET 172 TOTAL 436

WAR-63-0.83

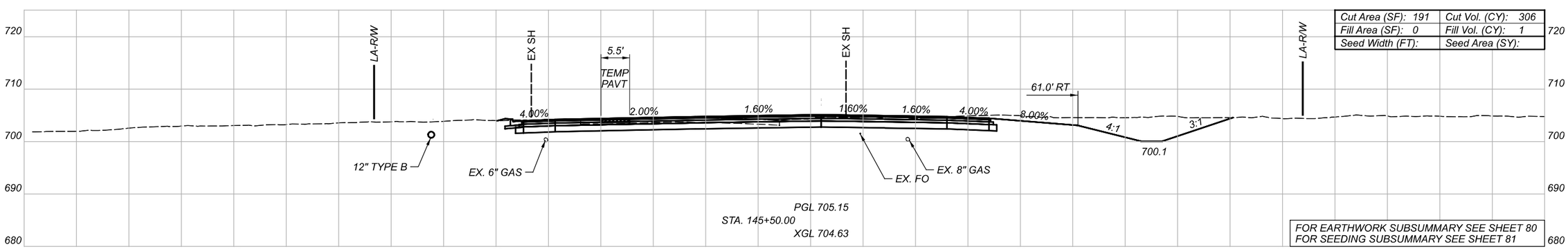
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn



Cut Area (SF): 504	Cut Vol. (CY): 786
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 345	Cut Vol. (CY): 496
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 191	Cut Vol. (CY): 306
Fill Area (SF): 0	Fill Vol. (CY): 1
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 145+50.00 TO STA. 146+50.00

DESIGN AGENCY
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RN 08/22/23

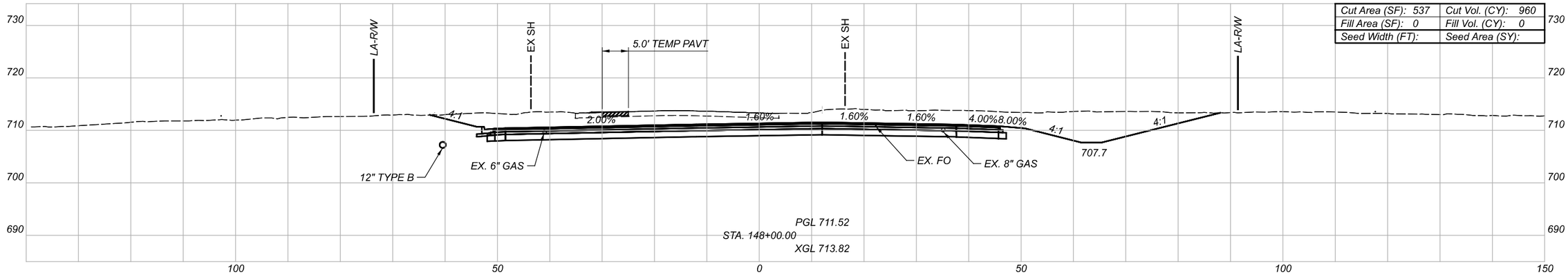
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
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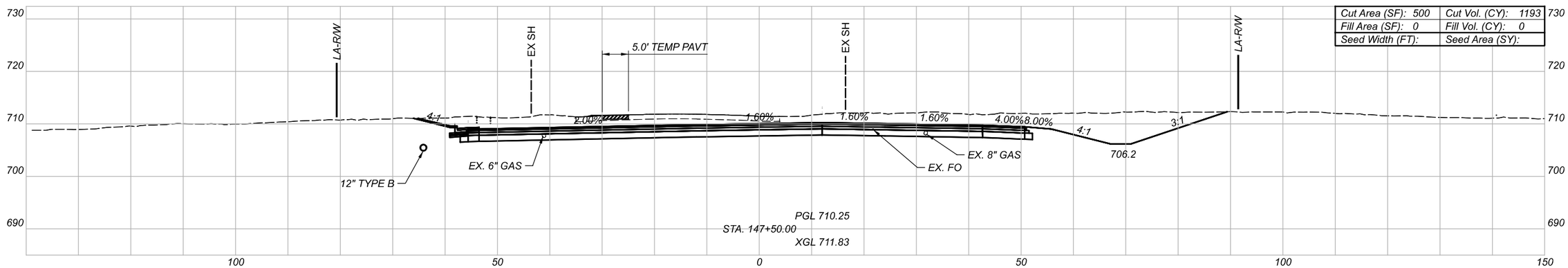
SHEET 173 TOTAL 436

WAR-63-0.83

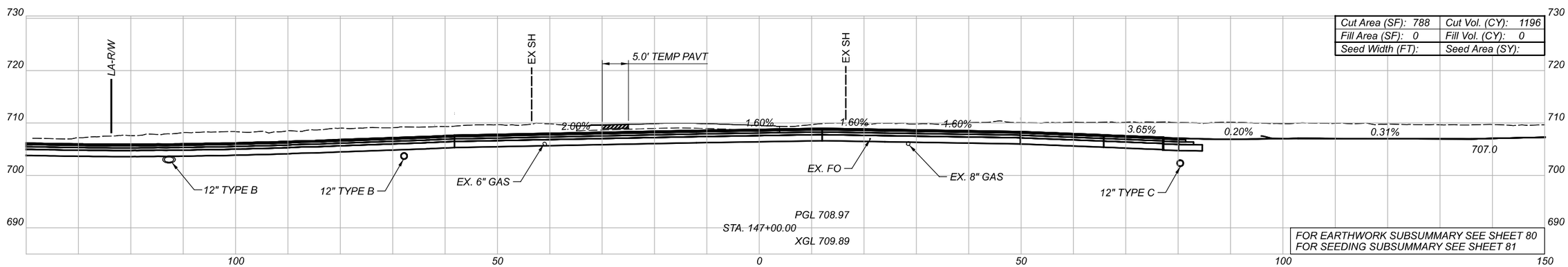
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A8200 - SR 63 Reconstruction\Design\1212\1400-Engineering\Roadway\Sheets\1212L_XS00L.dgn



Cut Area (SF): 537	Cut Vol. (CY): 960
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 500	Cut Vol. (CY): 1193
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 788	Cut Vol. (CY): 1196
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 147+00.00 TO STA. 148+00.00

DESIGN AGENCY
JACOBS

DESIGNER
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REVIEWER
RN 08/22/23

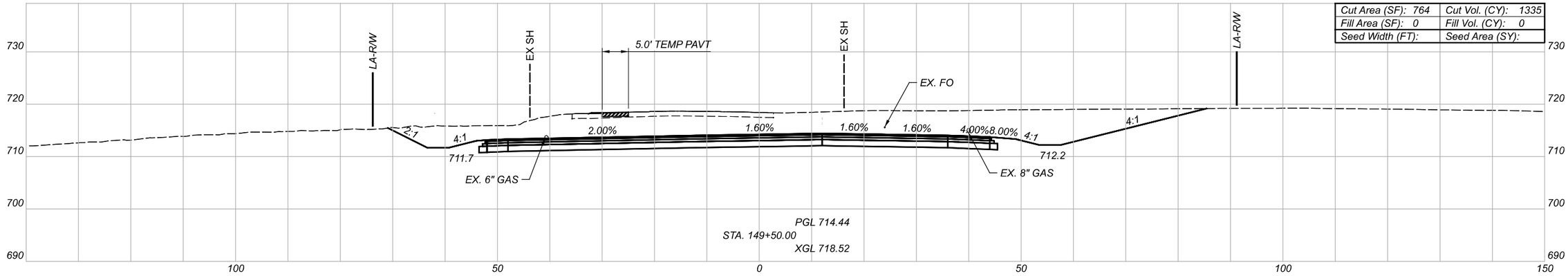
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET 174 TOTAL 436

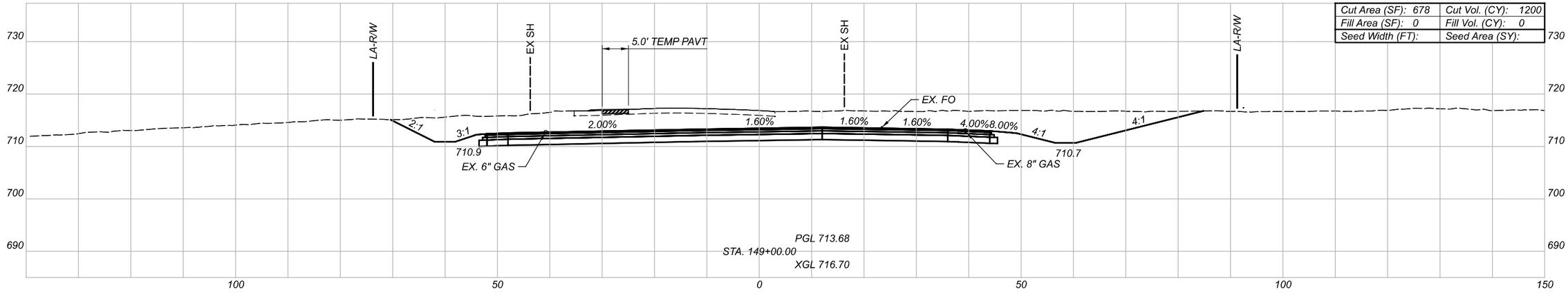
WAR-63-0.83

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pw:\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn



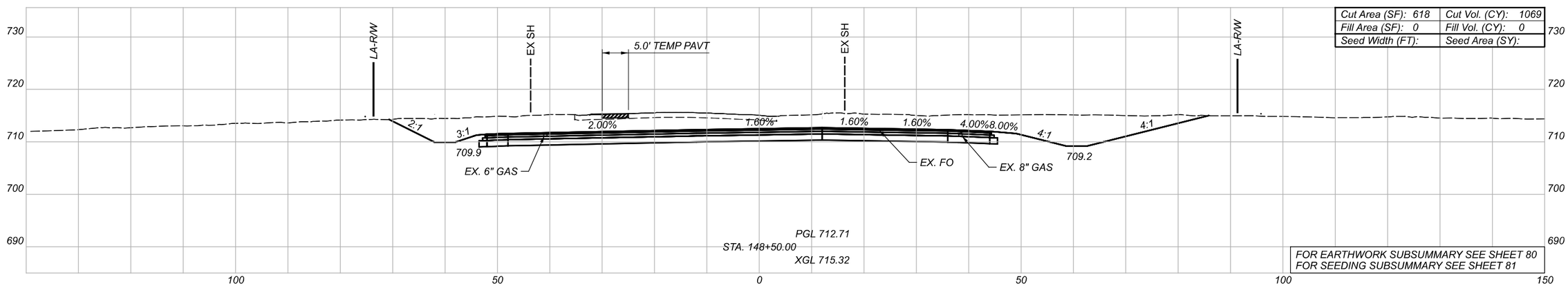
Cut Area (SF): 764	Cut Vol. (CY): 1335
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

PGL 714.44
STA. 149+50.00
XGL 718.52



Cut Area (SF): 678	Cut Vol. (CY): 1200
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

PGL 713.68
STA. 149+00.00
XGL 716.70



Cut Area (SF): 618	Cut Vol. (CY): 1069
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

PGL 712.71
STA. 148+50.00
XGL 715.32

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 148+50.00 TO STA. 149+50.00

DESIGN AGENCY
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DESIGNER
JO

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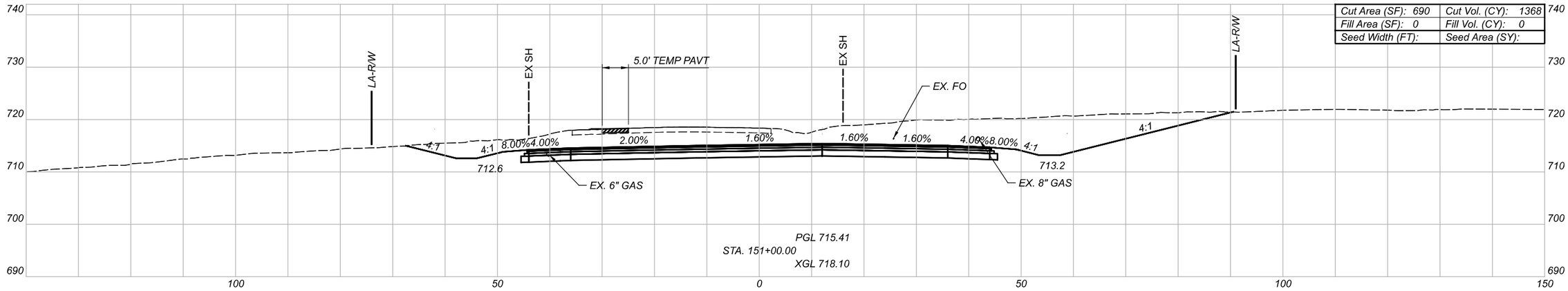
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

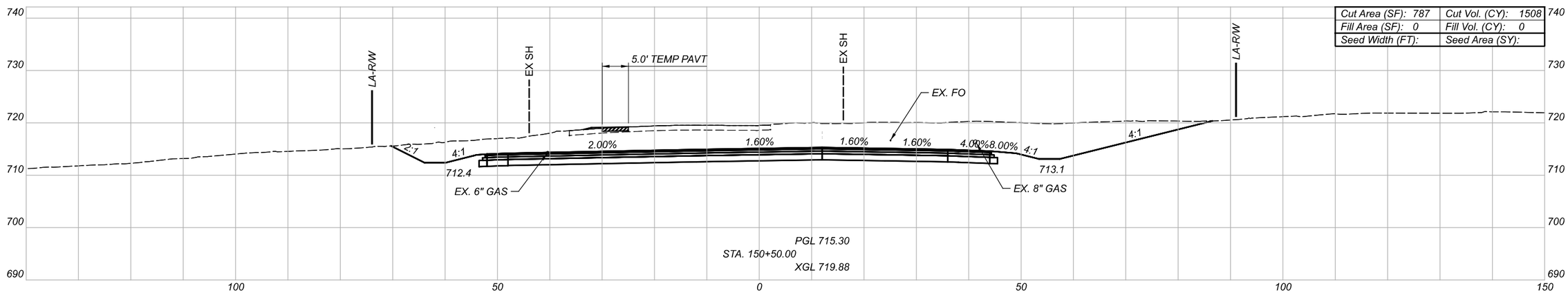
SHEET 175 TOTAL 436

WAR-63-0.83

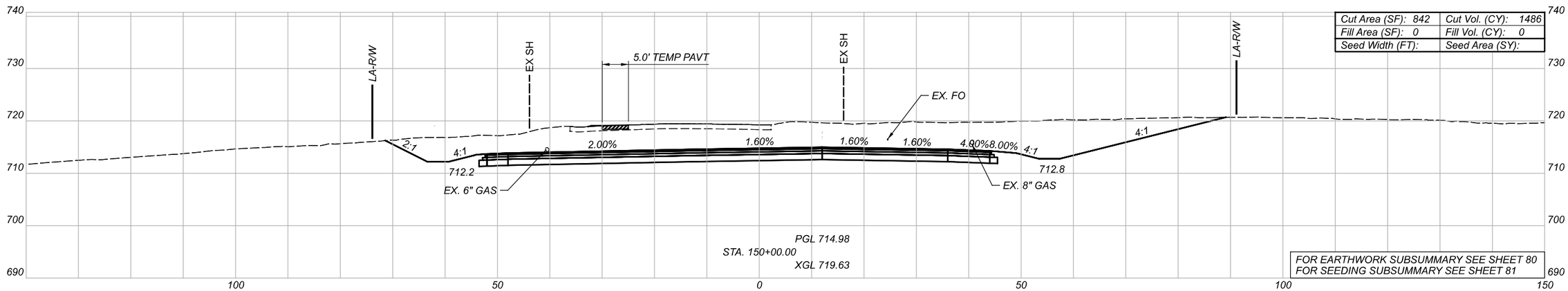
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pw:\\Project\WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn



Cut Area (SF): 690	Cut Vol. (CY): 1368
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 787	Cut Vol. (CY): 1508
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 842	Cut Vol. (CY): 1486
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 150+00.00 TO STA. 151+00.00

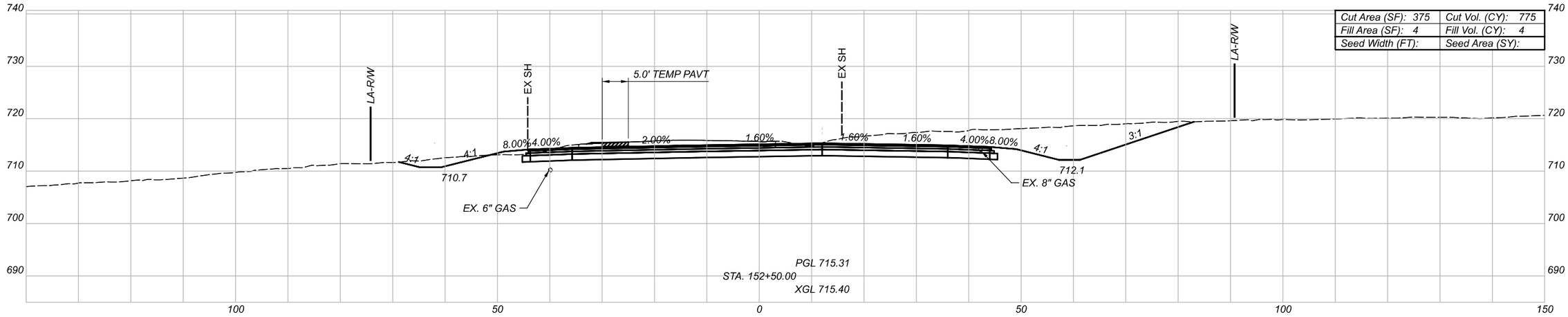
DESIGN AGENCY
JACOBS

DESIGNER	JO
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	176
TOTAL	436

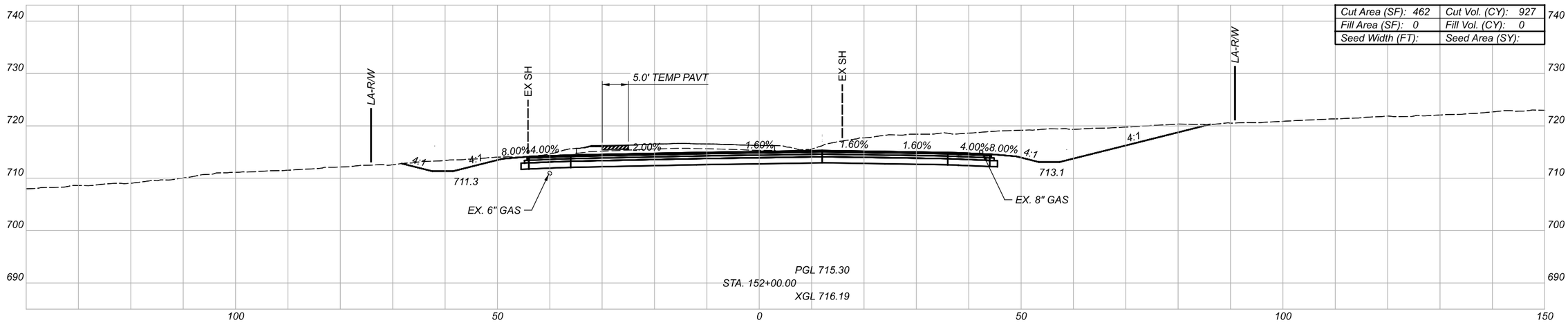
Sheet Totals		
Seeding	Cut	Fill
-	-	-

WAR-63-0.83

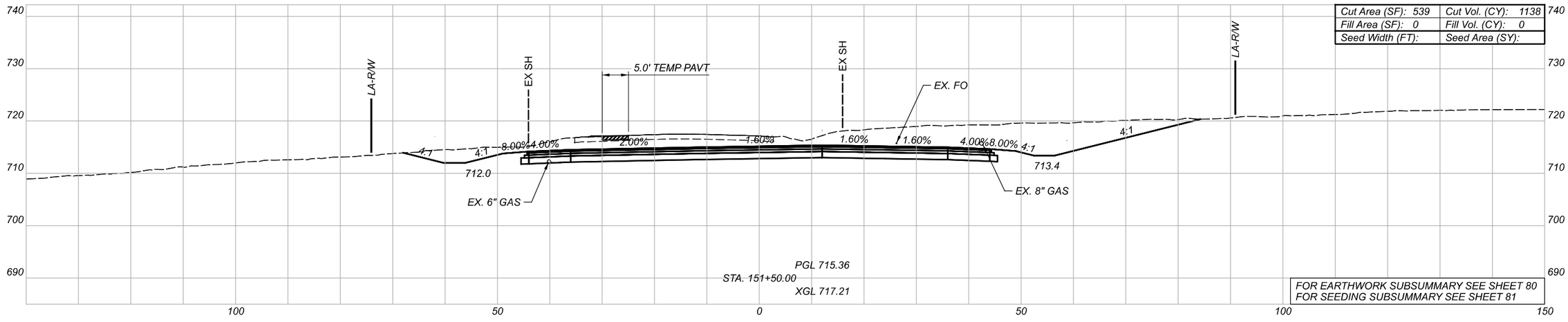
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn



Cut Area (SF): 375	Cut Vol. (CY): 775
Fill Area (SF): 4	Fill Vol. (CY): 4
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 462	Cut Vol. (CY): 927
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 539	Cut Vol. (CY): 1138
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 151+50.00 TO STA. 152+50.00

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

DESIGNER
JO

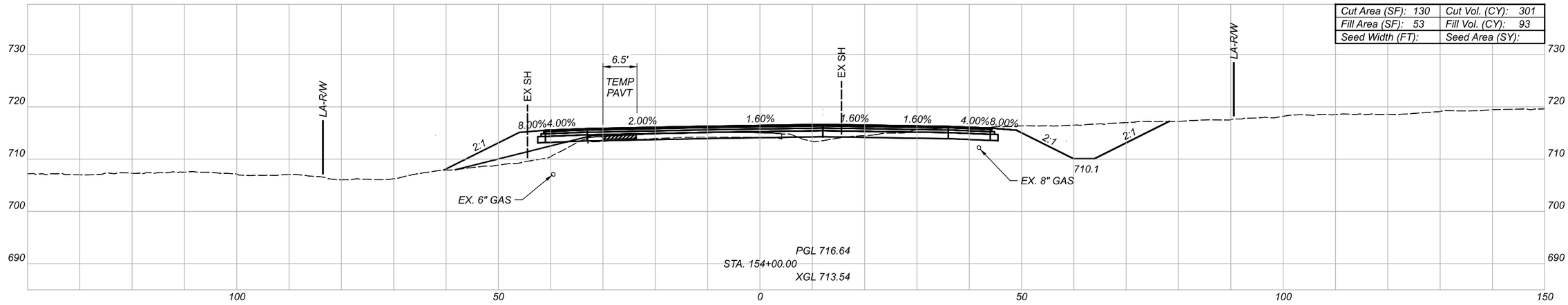
REVIEWER
RN 08/22/23

PROJECT ID
112121

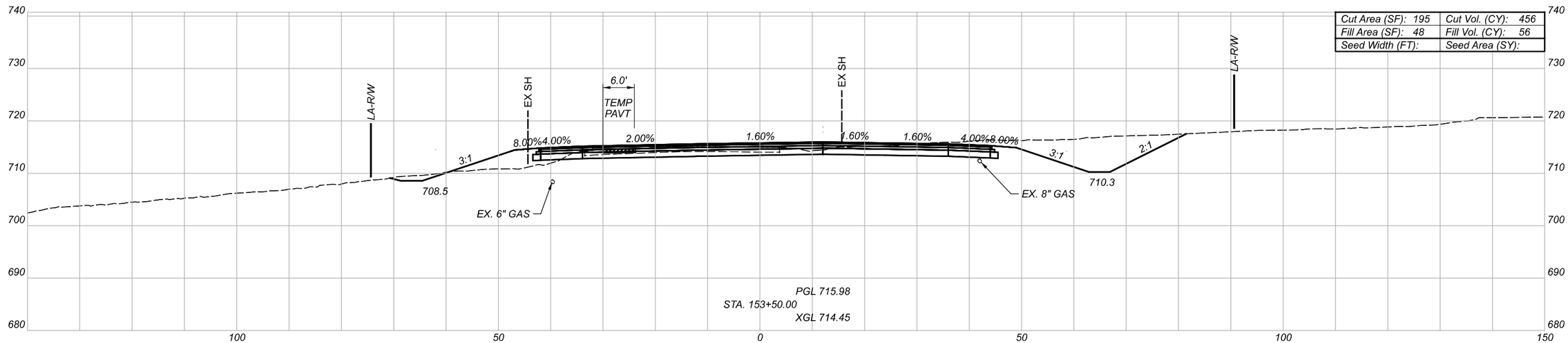
SHEET 177 TOTAL 436

WAR-63-0.83

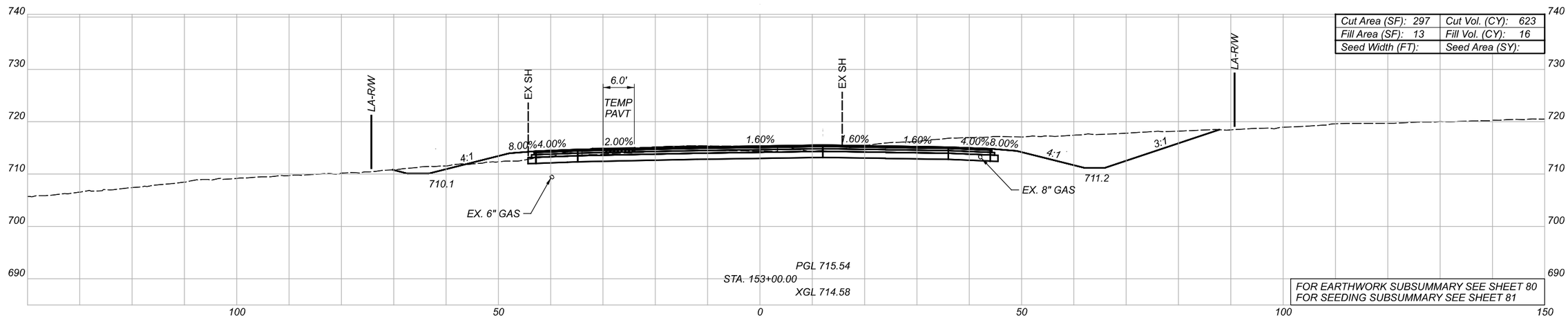
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pw:\\Project=WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00I.dgn



Cut Area (SF): 130	Cut Vol. (CY): 301
Fill Area (SF): 53	Fill Vol. (CY): 93
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 195	Cut Vol. (CY): 456
Fill Area (SF): 48	Fill Vol. (CY): 56
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 297	Cut Vol. (CY): 623
Fill Area (SF): 13	Fill Vol. (CY): 16
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 153+00.00 TO STA. 154+00.00

DESIGN AGENCY
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DESIGNER
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REVIEWER
RN 08/22/23

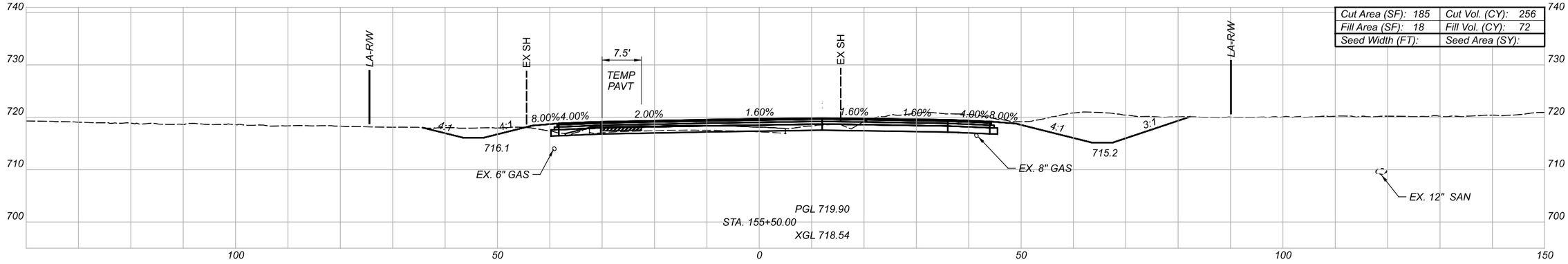
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

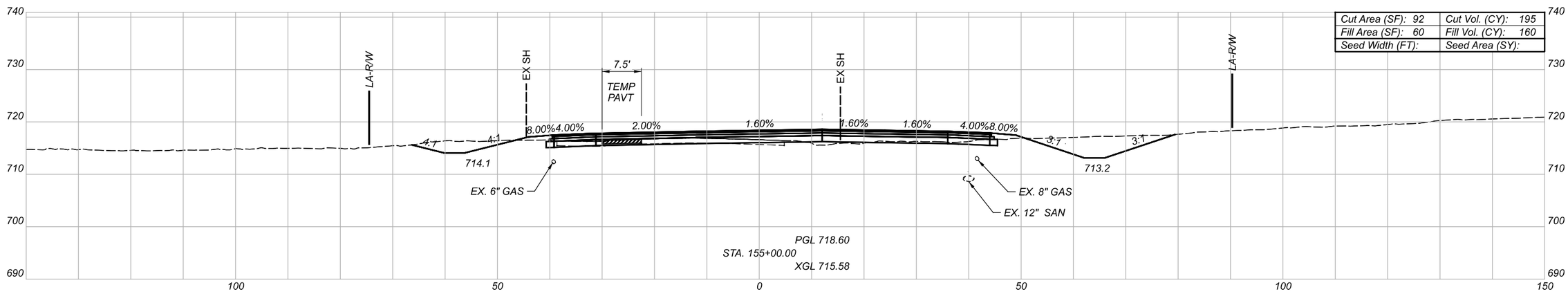
SHEET 178 TOTAL 436

WAR-63-0.83

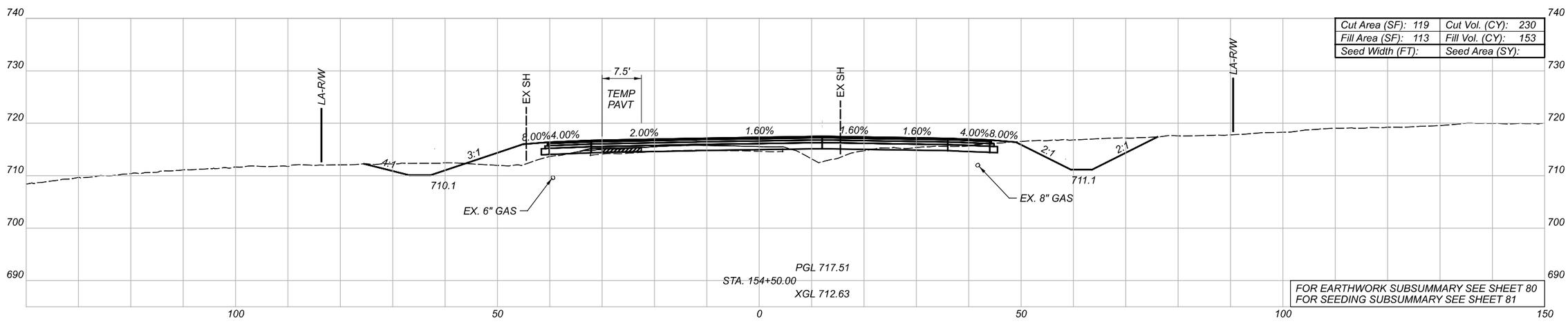
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pw:\\Project:WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn



Cut Area (SF): 185	Cut Vol. (CY): 256
Fill Area (SF): 18	Fill Vol. (CY): 72
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 92	Cut Vol. (CY): 195
Fill Area (SF): 60	Fill Vol. (CY): 160
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 119	Cut Vol. (CY): 230
Fill Area (SF): 113	Fill Vol. (CY): 153
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 154+50.00 TO STA. 155+50.00

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

DESIGNER
JO

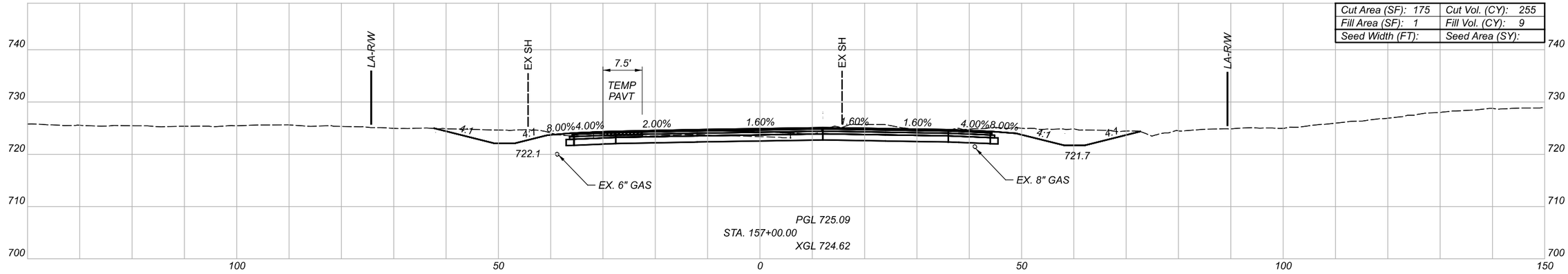
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 179 TOTAL 436

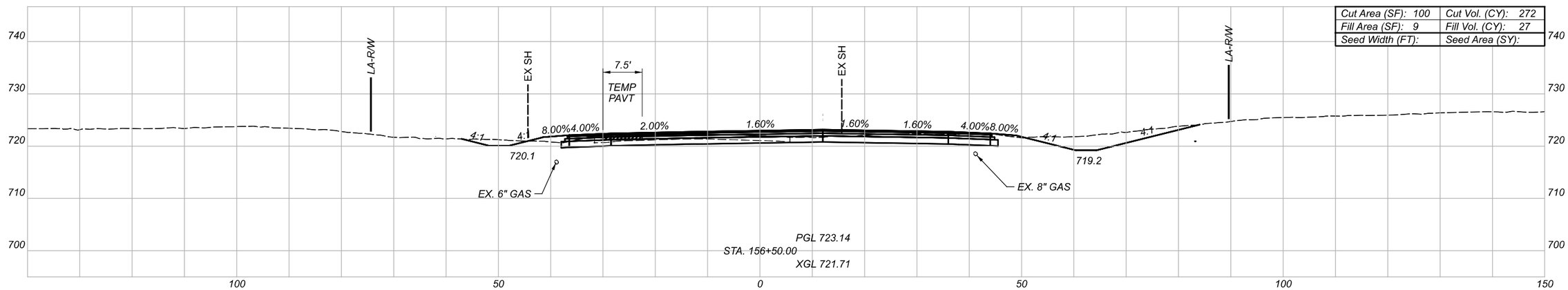
WAR-63-0.83

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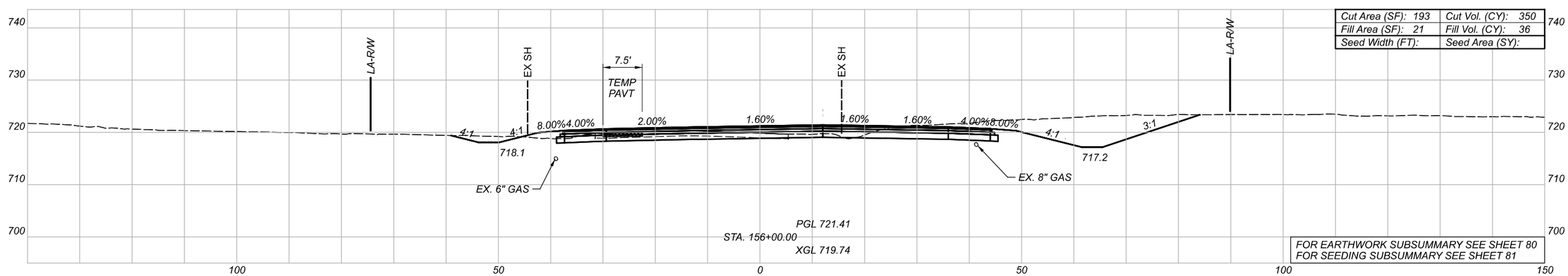
Cut Area (SF): 175	Cut Vol. (CY): 255
Fill Area (SF): 1	Fill Vol. (CY): 9
Seed Width (FT):	Seed Area (SY):

PGL 725.09
STA. 157+00.00
XGL 724.62



Cut Area (SF): 100	Cut Vol. (CY): 272
Fill Area (SF): 9	Fill Vol. (CY): 27
Seed Width (FT):	Seed Area (SY):

PGL 723.14
STA. 156+50.00
XGL 721.71



Cut Area (SF): 193	Cut Vol. (CY): 350
Fill Area (SF): 21	Fill Vol. (CY): 36
Seed Width (FT):	Seed Area (SY):

PGL 721.41
STA. 156+00.00
XGL 719.74

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 156+00.00 TO STA. 157+00.00

DESIGN AGENCY
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DESIGNER
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REVIEWER
RN 08/22/23

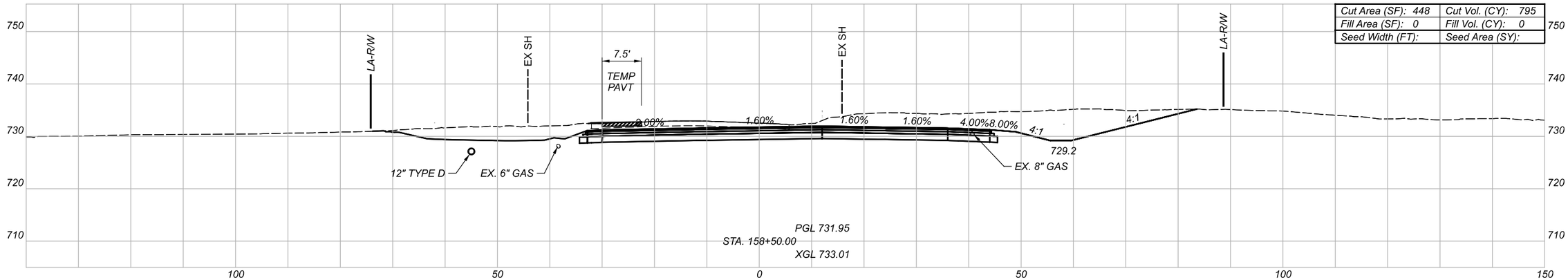
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

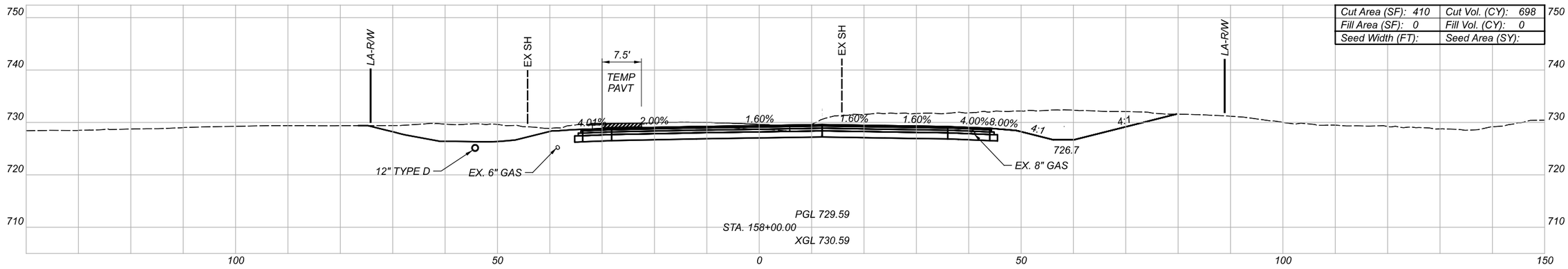
SHEET 180 TOTAL 436

WAR-63-0.83

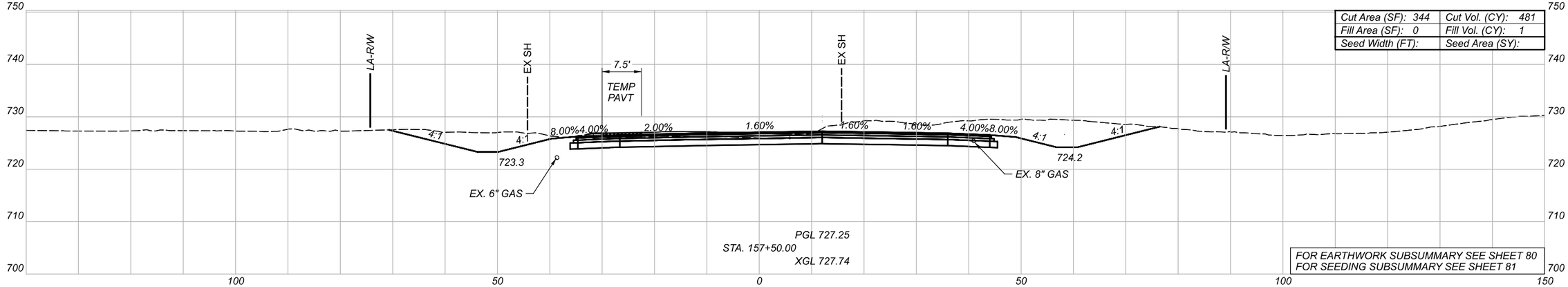
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pw:\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6AI8200 - SR 63 Reconstruction\Design\II2I2\400-Engineering\Roadway\Sheets\II2I2I_XS001.dgn



Cut Area (SF): 448	Cut Vol. (CY): 795
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 410	Cut Vol. (CY): 698
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 344	Cut Vol. (CY): 481
Fill Area (SF): 0	Fill Vol. (CY): 1
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 157+50.00 TO STA. 158+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

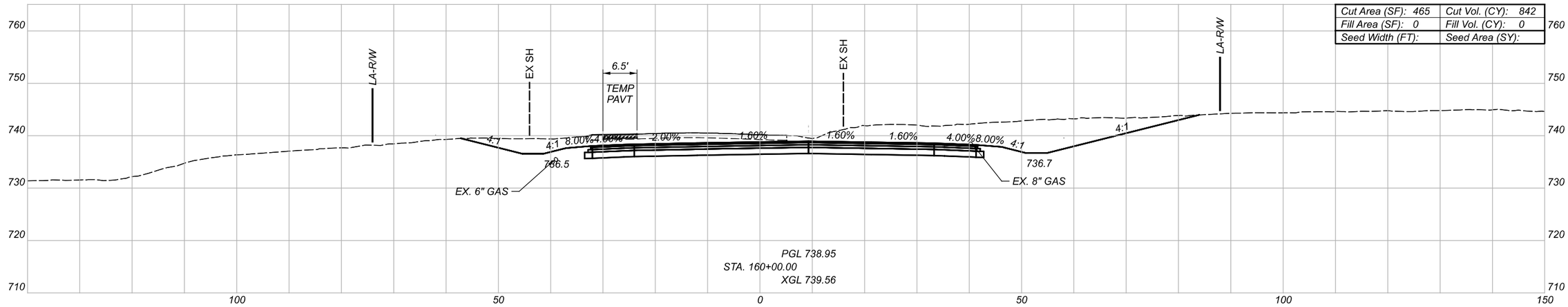
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
.	.	.

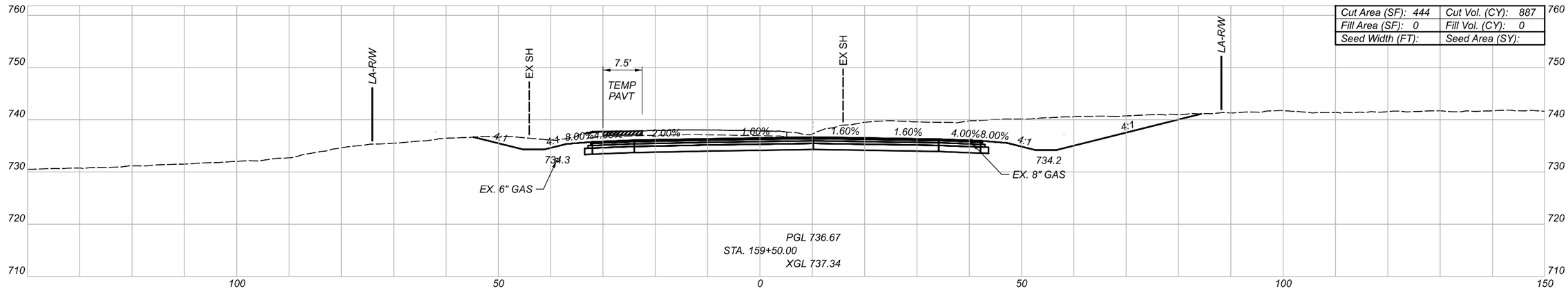
SHEET 181 TOTAL 436

WAR-63-0.83

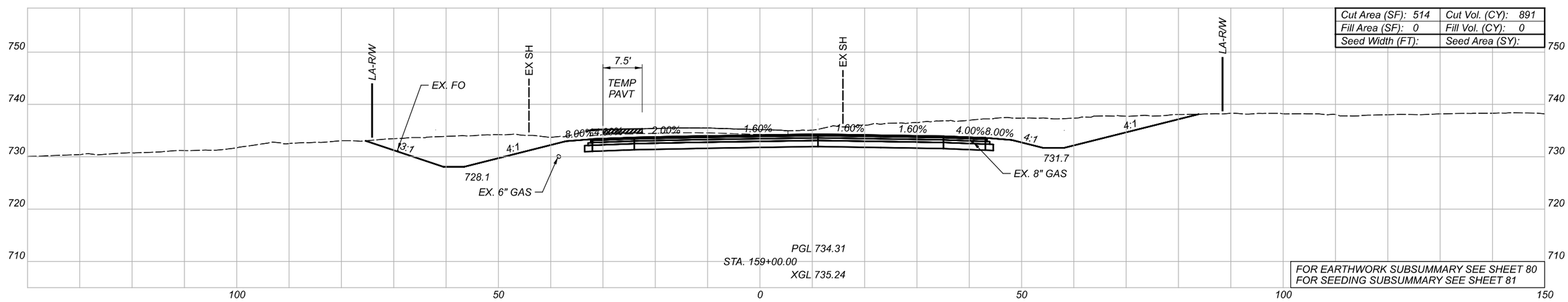
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn



Cut Area (SF): 465	Cut Vol. (CY): 842
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 444	Cut Vol. (CY): 887
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 514	Cut Vol. (CY): 891
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 159+00.00 TO STA. 160+00.00

WAR-63-0.83

MODEL: CLP_SR63 - I59+00.00 [Sheet] PAPERSIZE: 7Xll(in.) DATE: 8/23/2023 TIME: 2:47:35 PM USER: Tahir.Sondo@Jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6AI8200 - SR 63 Reconstruction\Design\II2I\400-Engineering\Roadway\Sheets\II2I_XS00.dgn

DESIGN AGENCY
JACOBS

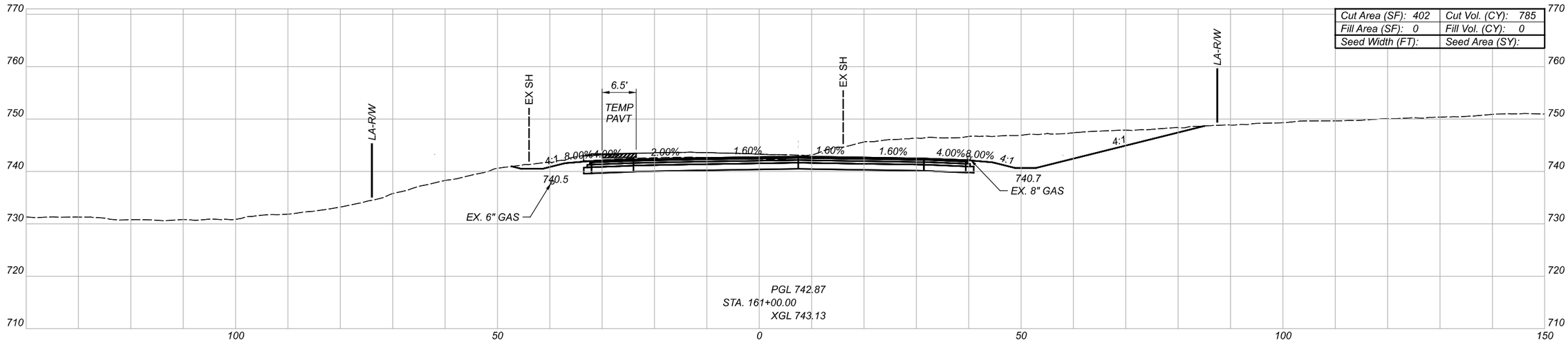
DESIGNER
JO

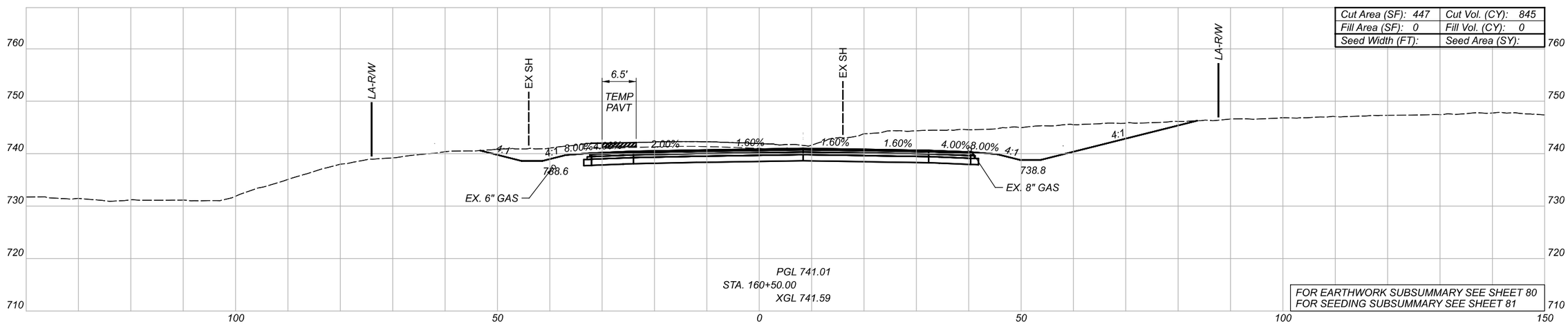
REVIEWER
RN 08/22/23

PROJECT ID
112121

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SHEET 182 TOTAL 436





CROSS SECTIONS - SR 63
STA. 160+50.00 TO STA. 161+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

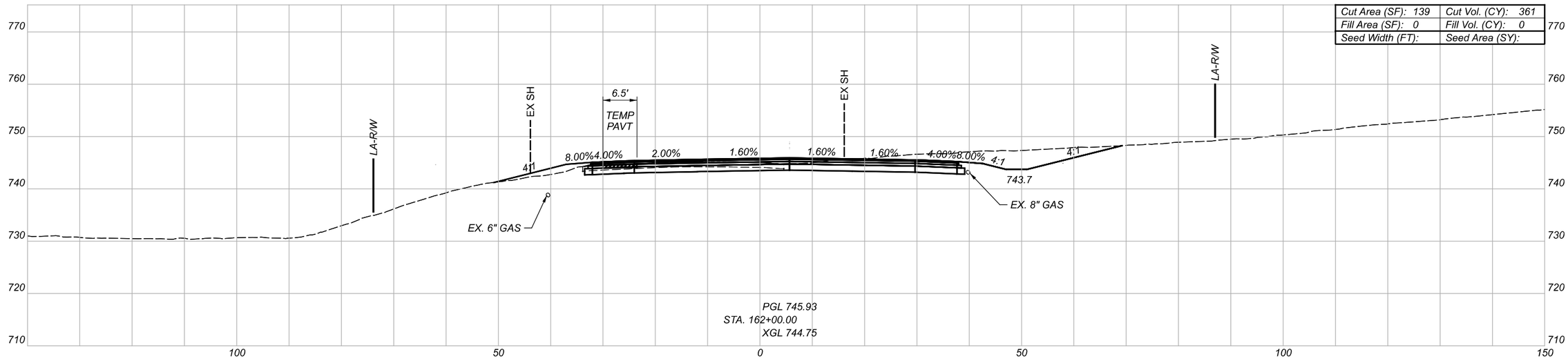
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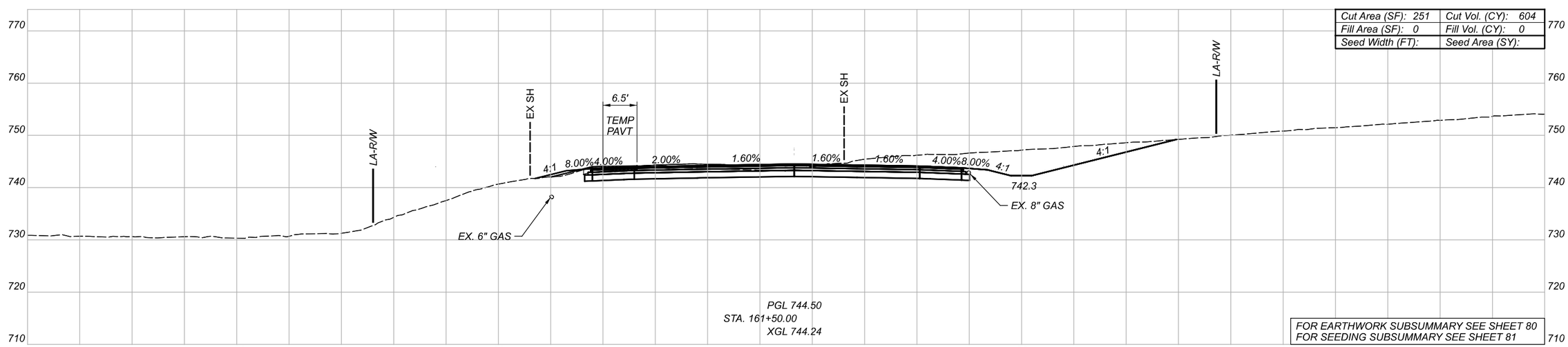
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SHEET 183 TOTAL 436

WAR-63-0.83

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CROSS SECTIONS - SR 63
STA. 161+50.00 TO STA. 162+00.00

DESIGN AGENCY
JACOBS

DESIGNER	REVIEWER
JO	RN 08/22/23

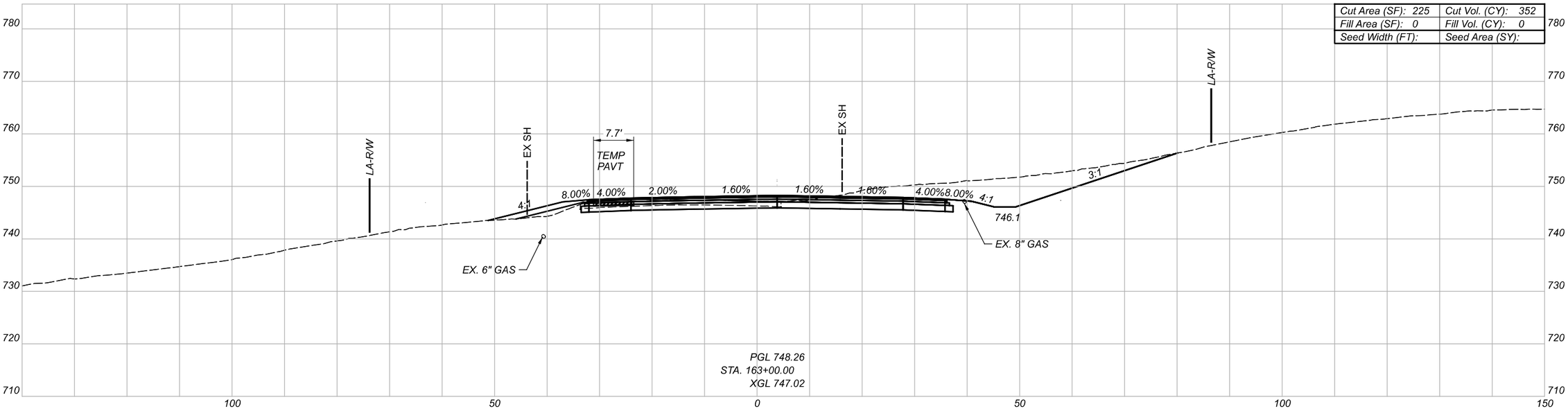
PROJECT ID 112121

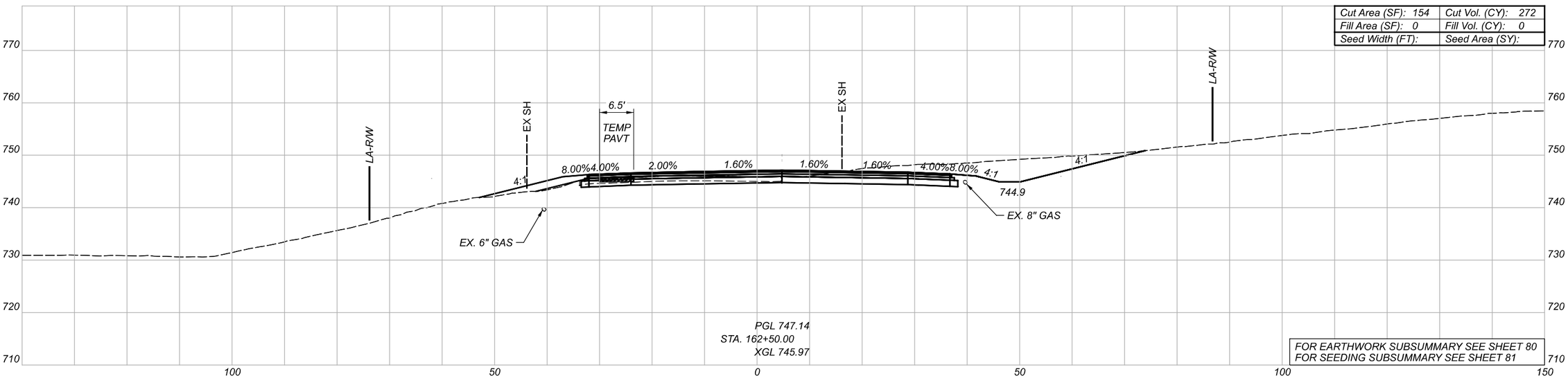
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SHEET 184 TOTAL 436

WAR-63-0.83

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CROSS SECTIONS - SR 63
STA. 162+50.00 TO STA. 163+00.00

WAR-63-0.83

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DESIGN AGENCY
JACOBS

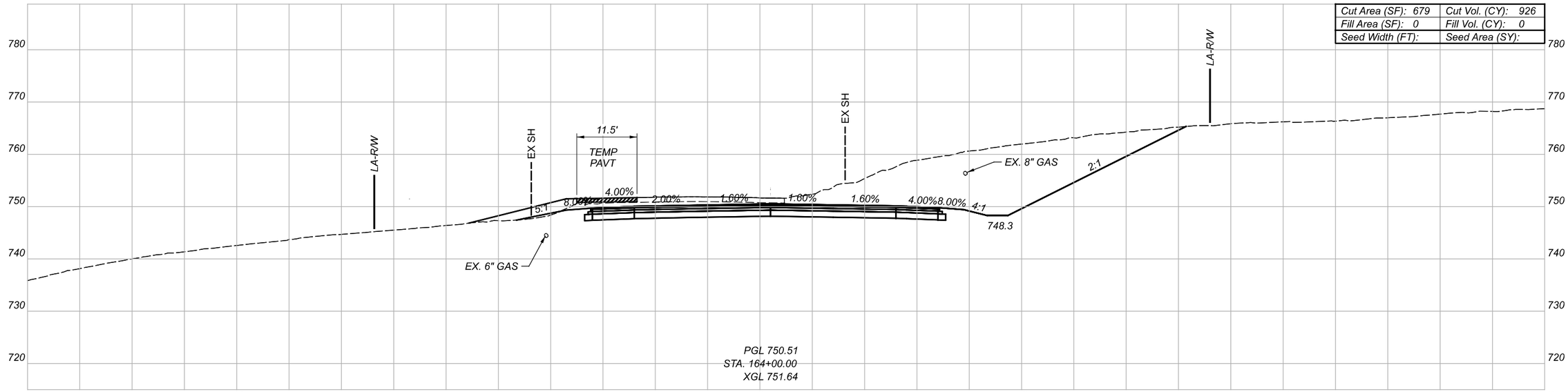
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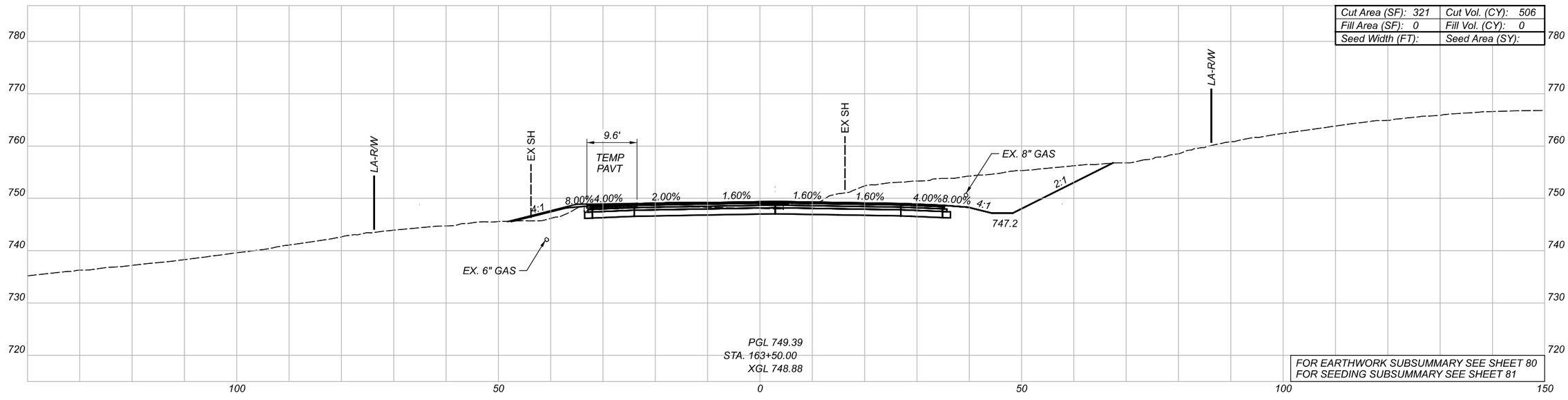
REVIEWER
RN 08/22/23

PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
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SHEET 185 TOTAL 436





FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 163+50.00 TO STA. 164+00.00

WAR-63-0.83

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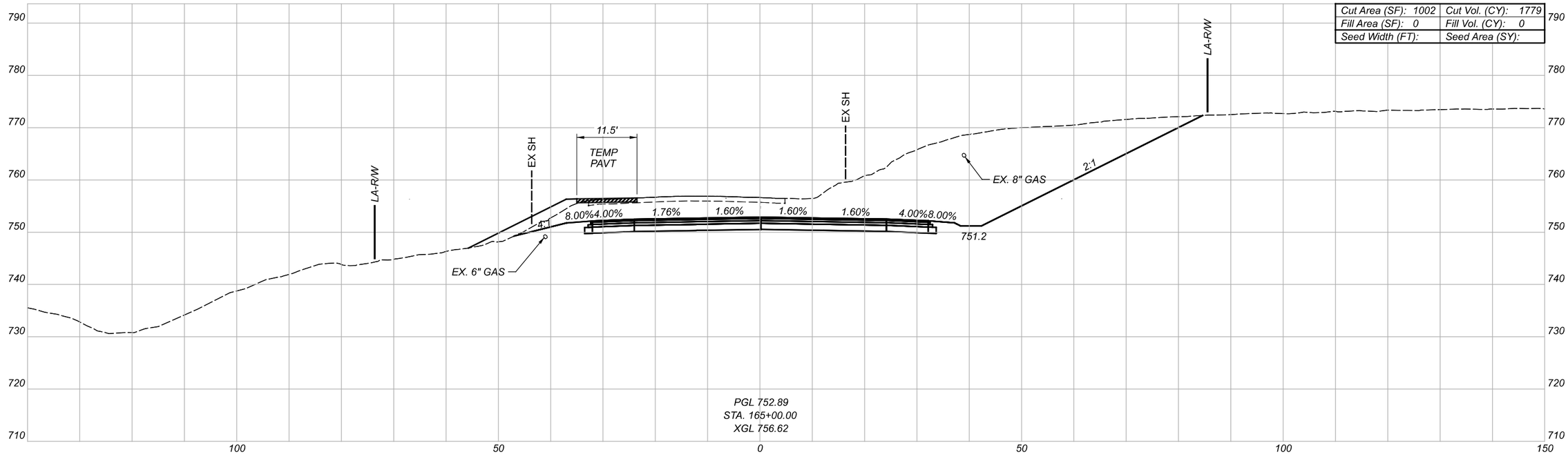
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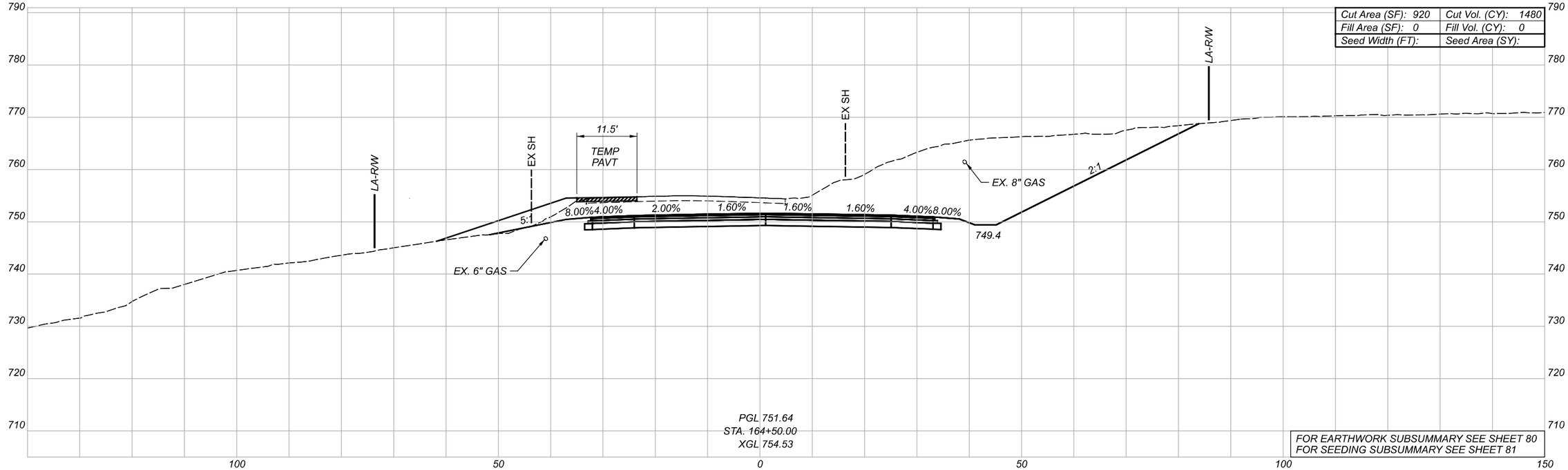
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RN 08/22/23

PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
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SHEET	TOTAL
186	436





CROSS SECTIONS - SR 63
STA. 164+50.00 TO STA. 165+00.00

DESIGN AGENCY
JACOBS

DESIGNER	REVIEWER
JO	RN 08/22/23

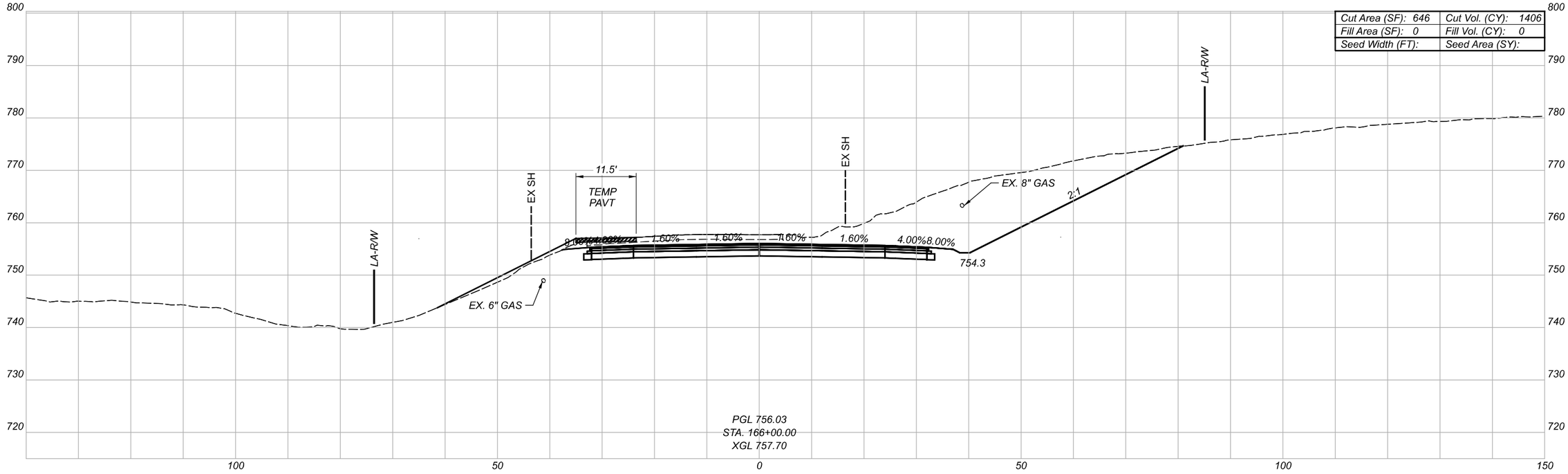
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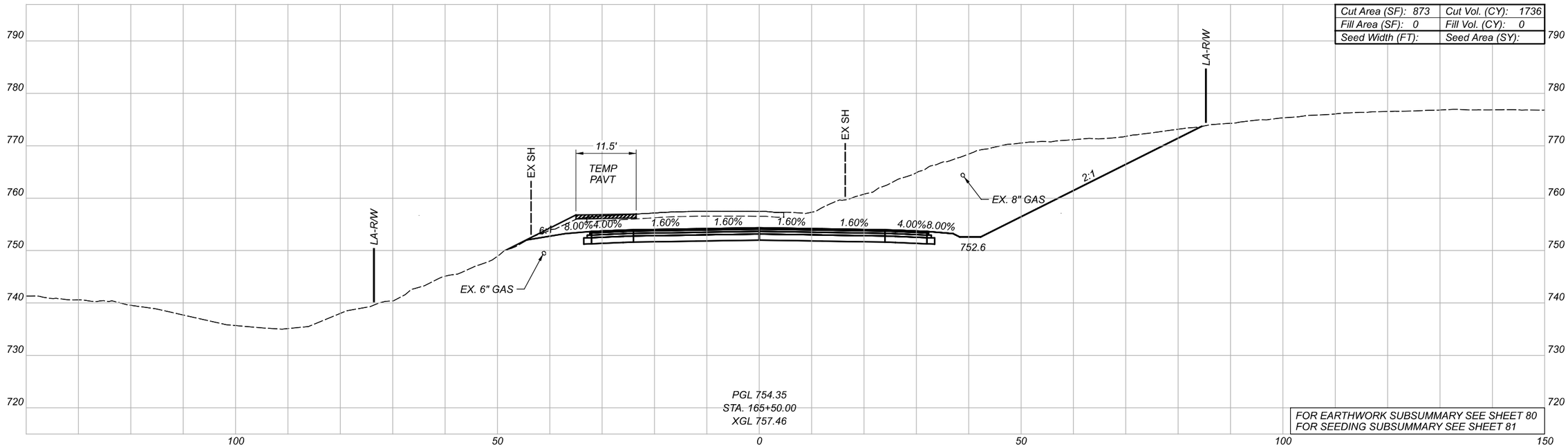
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SHEET 187 TOTAL 436

WAR-63-0.83

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CROSS SECTIONS - SR 63
STA. 165+50.00 TO STA. 166+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
JACOBS

DESIGNER
JO

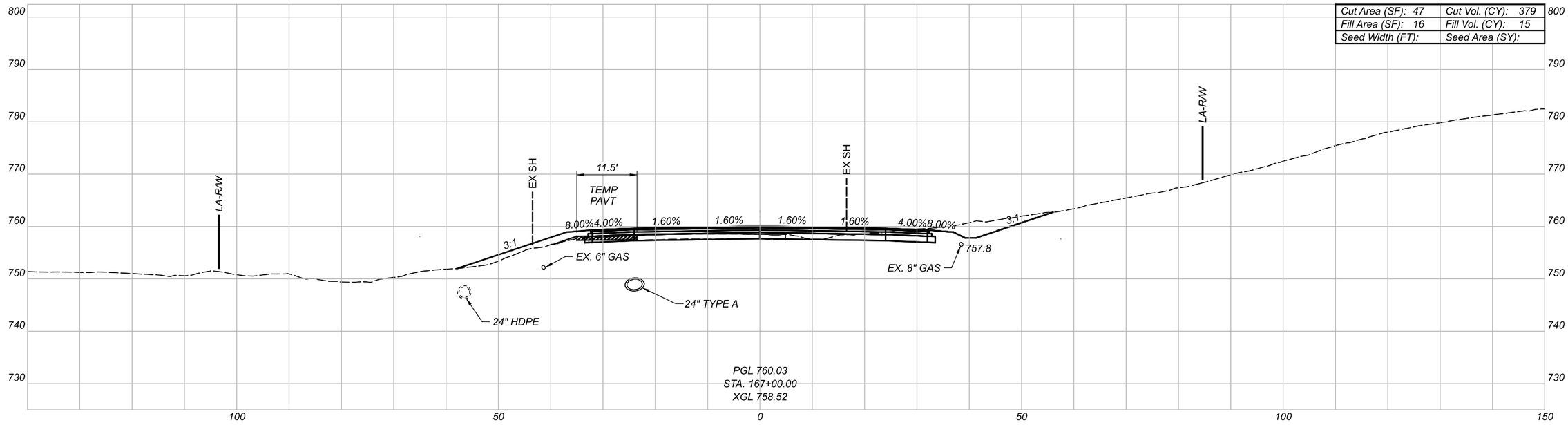
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RN 08/22/23

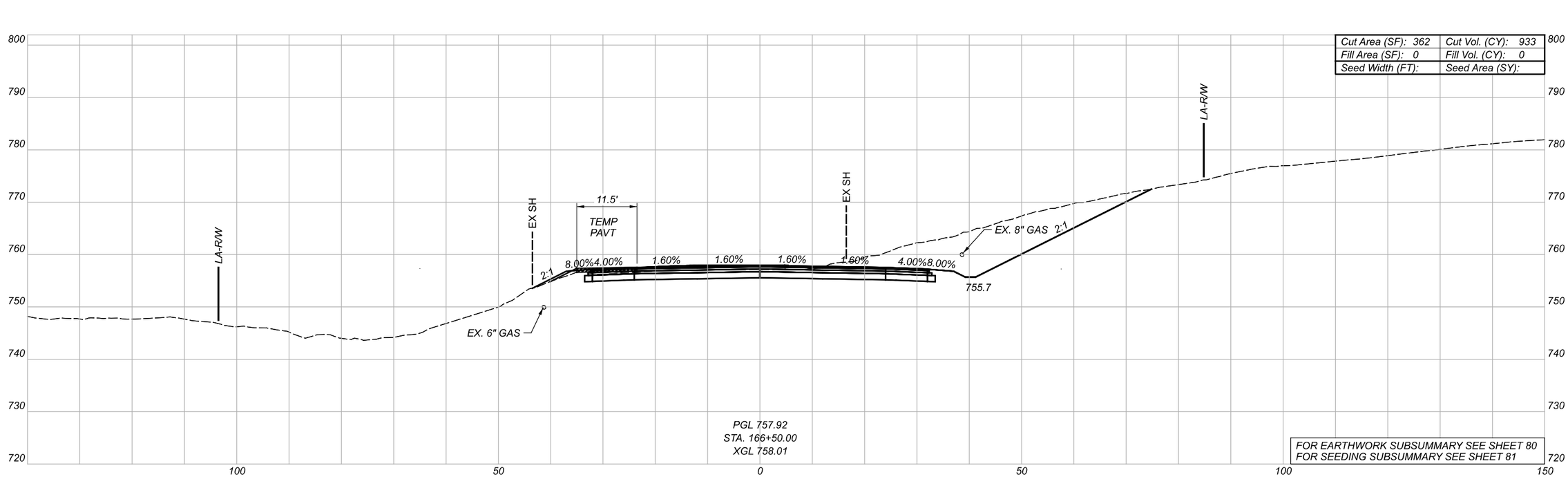
PROJECT ID
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SHEET 188 TOTAL 436

WAR-63-0.83

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CROSS SECTIONS - SR 63
STA. 166+50.00 TO STA. 167+00.00

WAR-63-0.83

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Sheet Totals		
Seeding	Cut	Fill
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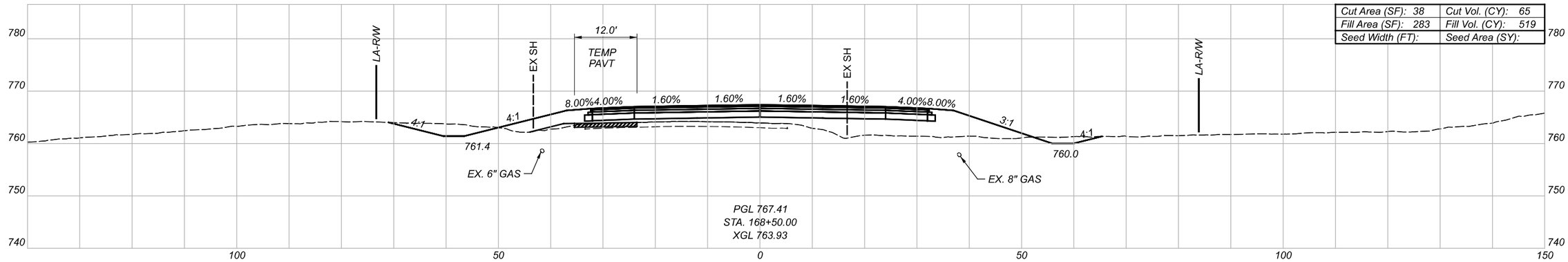
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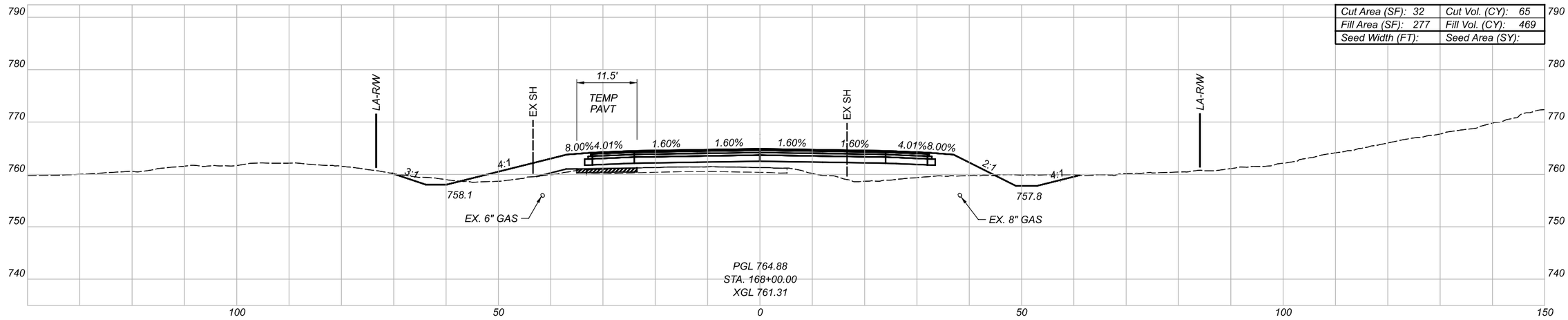
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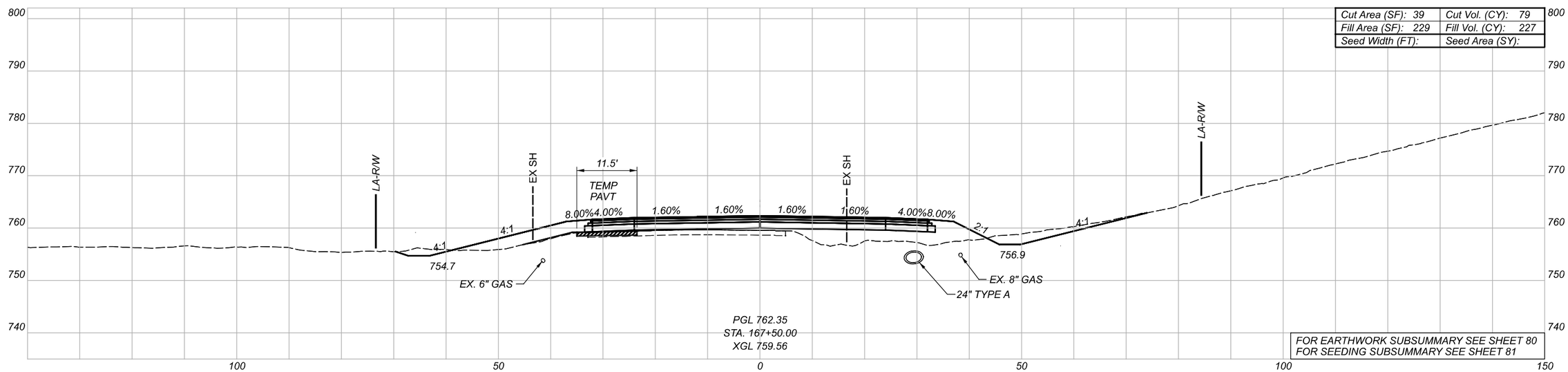
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 189 TOTAL 436







CROSS SECTIONS - SR 63
STA. 167+50.00 TO STA. 168+50.00

WAR-63-0.83

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DESIGN AGENCY
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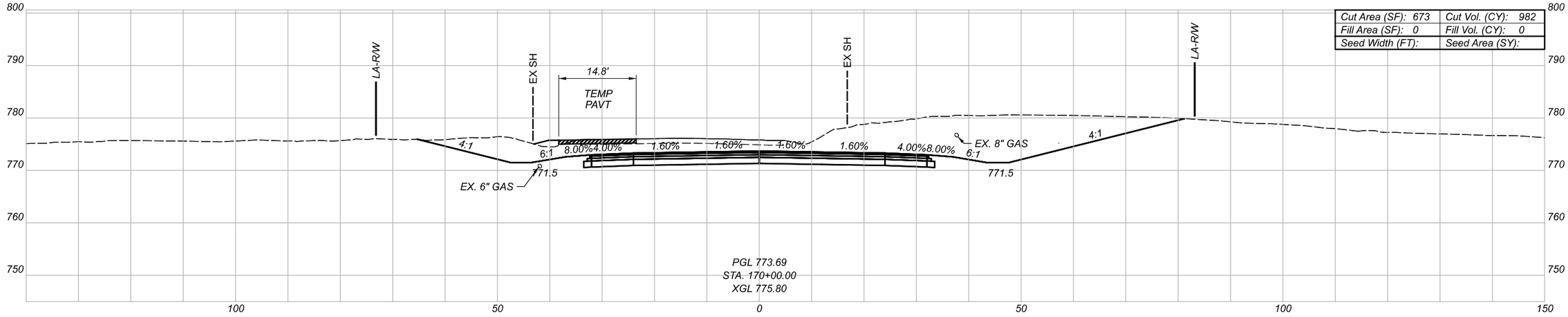
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REVIEWER
RN 08/22/23

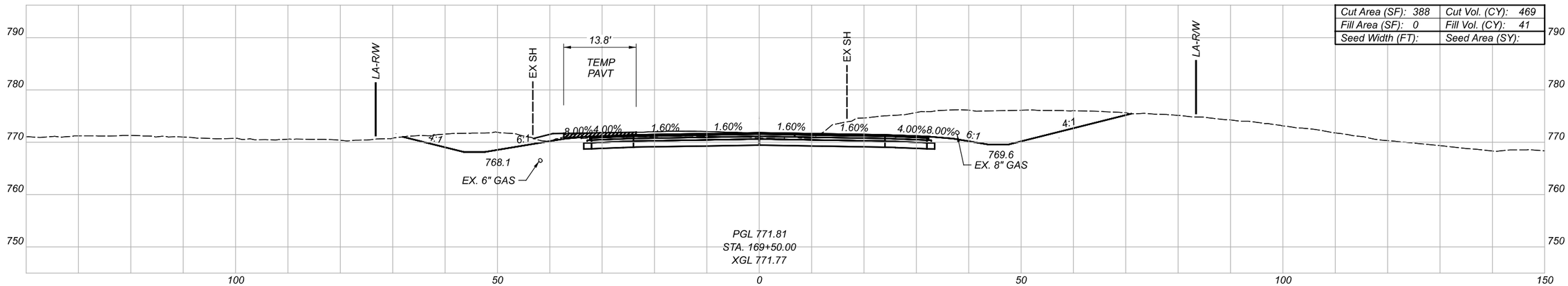
PROJECT ID
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Sheet Totals		
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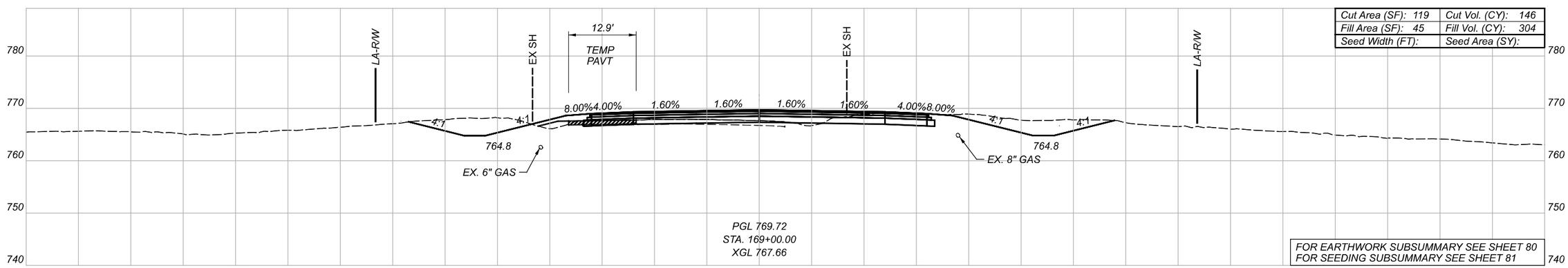
SHEET 190 TOTAL 436



Cut Area (SF): 673	Cut Vol. (CY): 982
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 388	Cut Vol. (CY): 469
Fill Area (SF): 0	Fill Vol. (CY): 41
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 119	Cut Vol. (CY): 146
Fill Area (SF): 45	Fill Vol. (CY): 304
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 169+00.00 TO STA. 170+00.00

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

DESIGNER JO

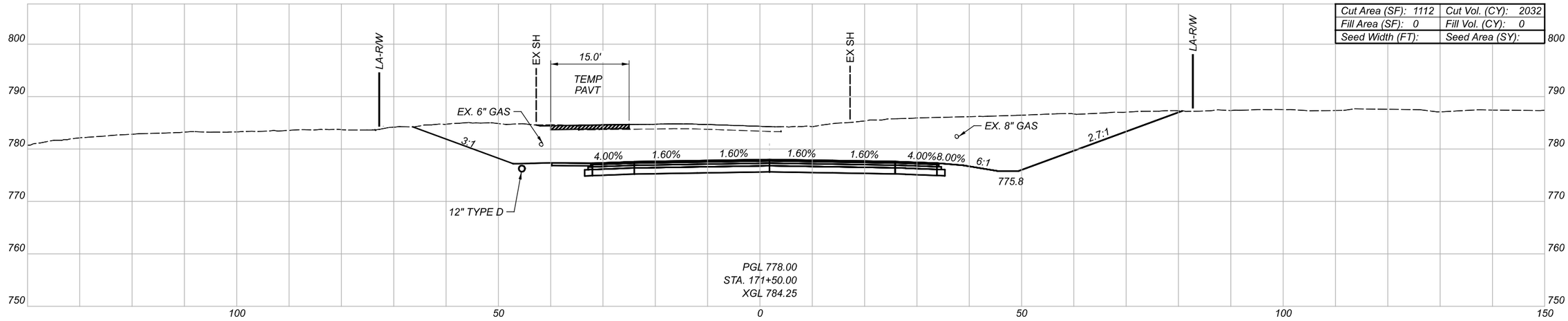
REVIEWER RN 08/22/23

PROJECT ID 112121

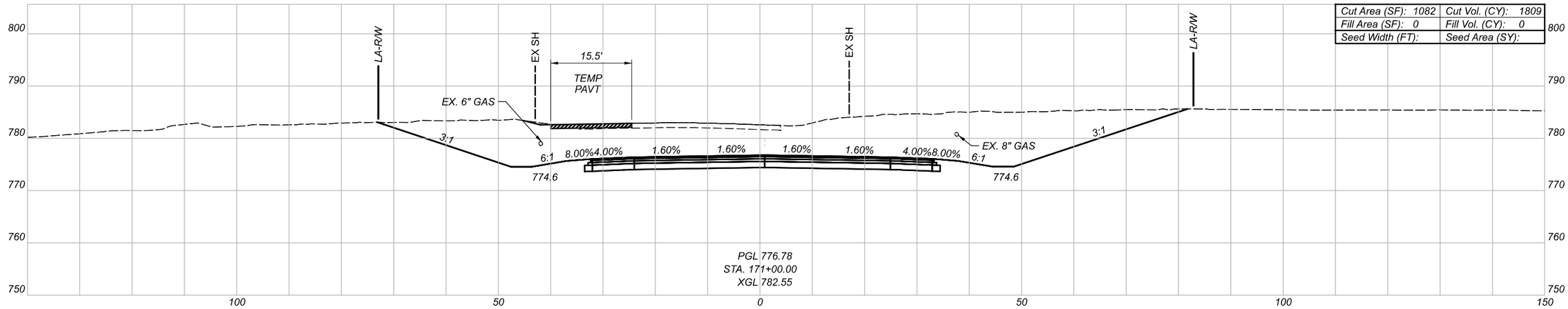
SHEET 191 TOTAL 436

WAR-63-0.83

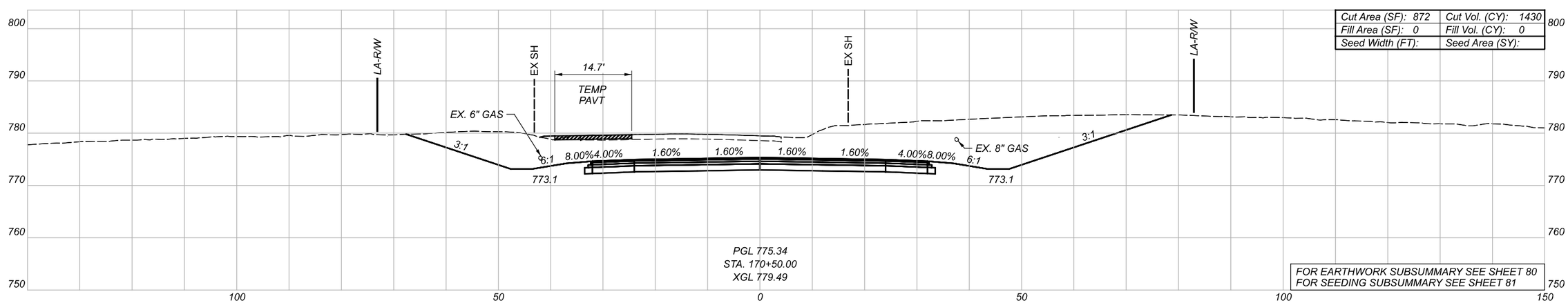
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Cut Area (SF): 1112	Cut Vol. (CY): 2032
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 1082	Cut Vol. (CY): 1809
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 872	Cut Vol. (CY): 1430
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 170+50.00 TO STA. 171+50.00

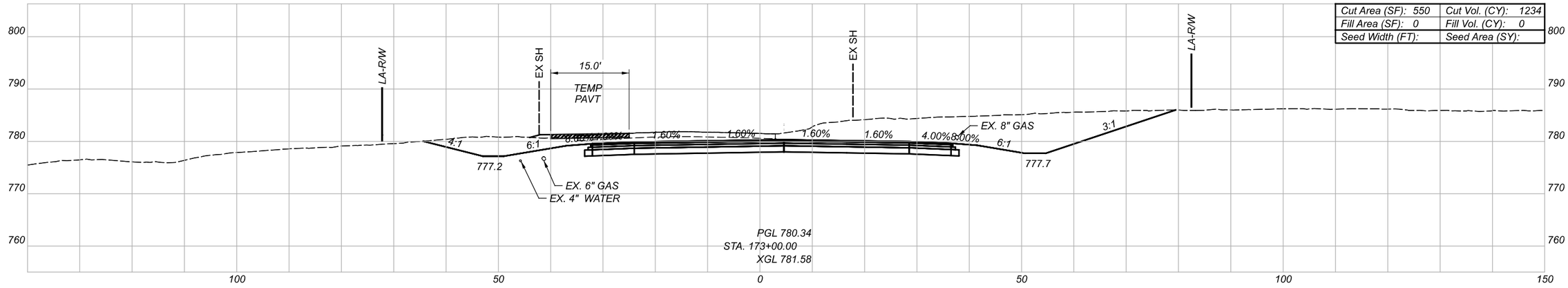
DESIGN AGENCY
JACOBS

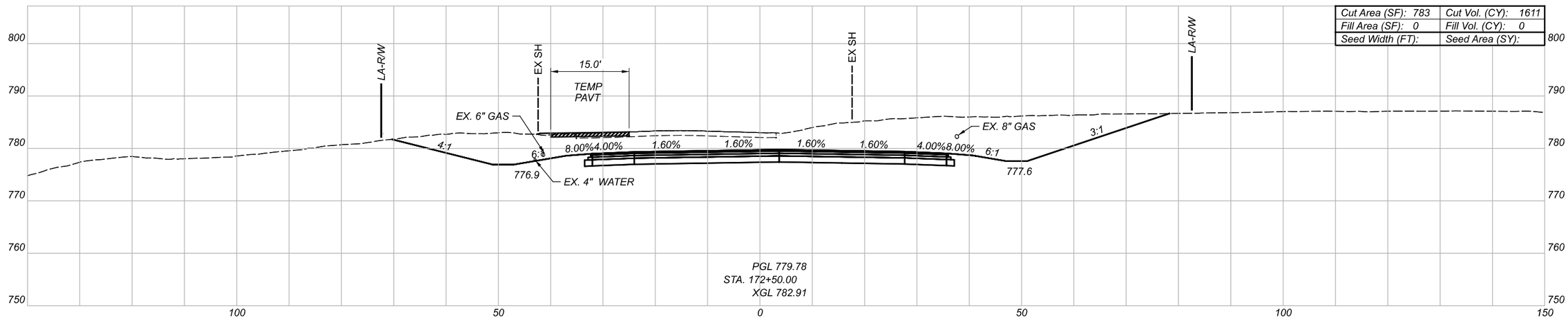
DESIGNER	JO
REVIEWER	RN 08/22/23
PROJECT ID	112121

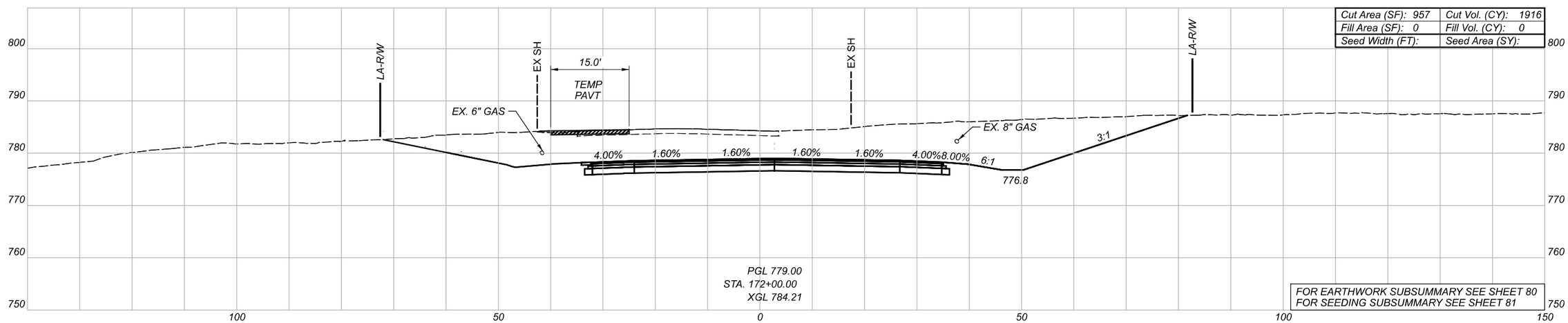
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Seeding	Cut	Fill	192	436
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WAR-63-0.83

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CROSS SECTIONS - SR 63
STA. 172+00.00 TO STA. 173+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

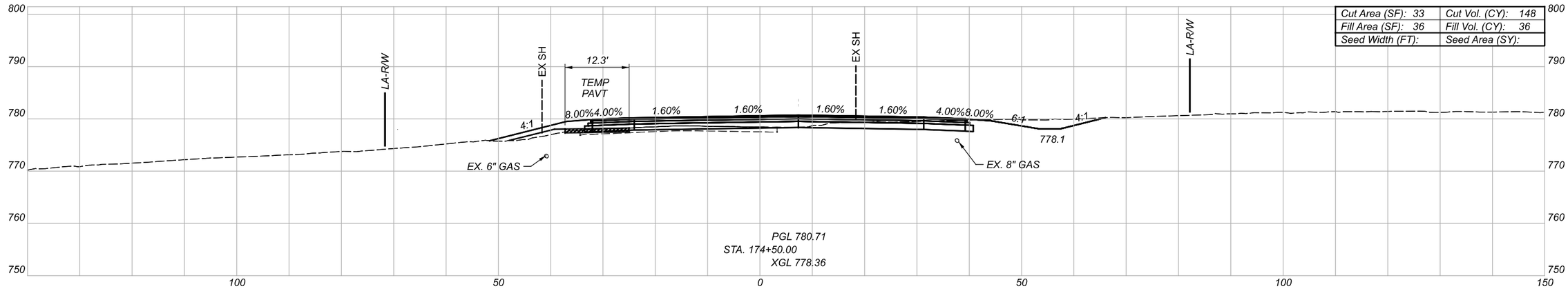
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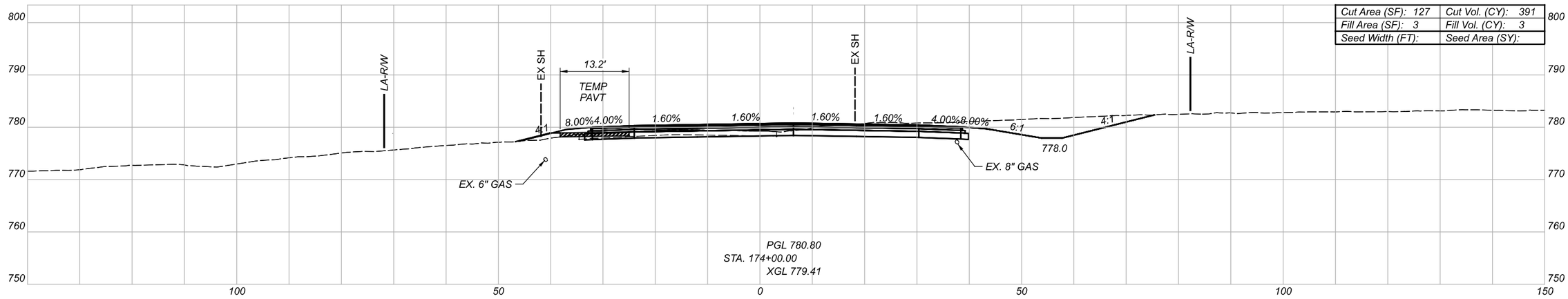
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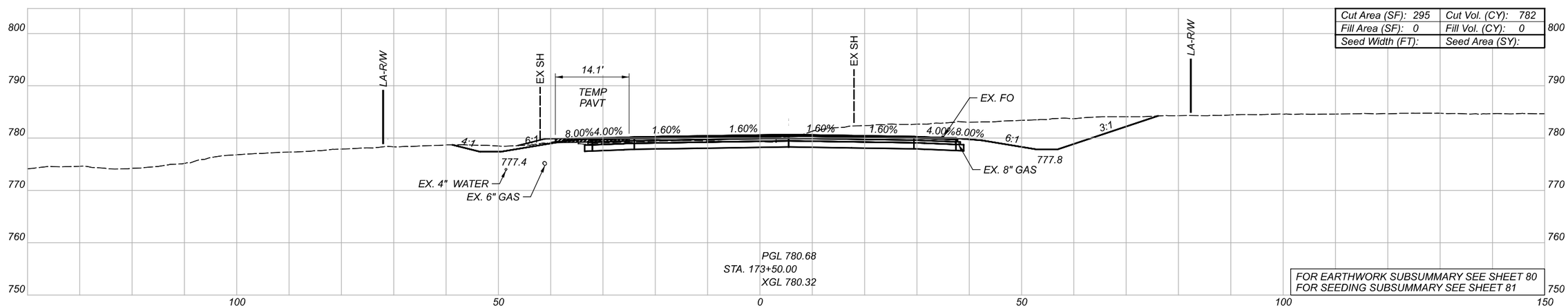
SHEET 193 TOTAL 436

WAR-63-0.83

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FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 173+50.00 TO STA. 174+50.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
JACOBS

DESIGNER
JO

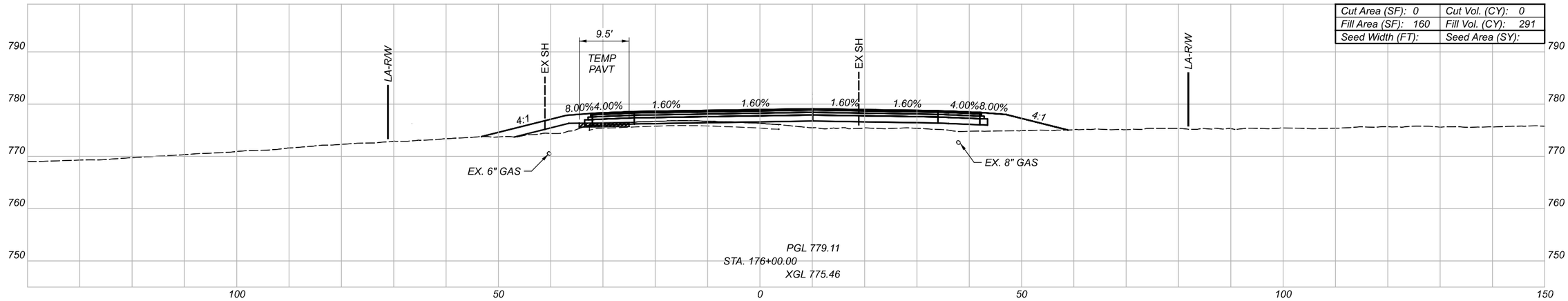
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RN 08/22/23

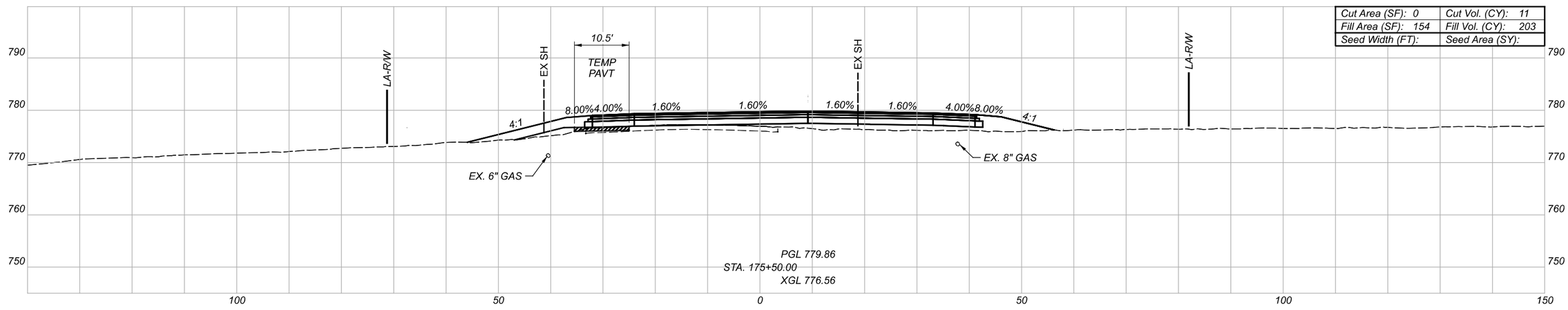
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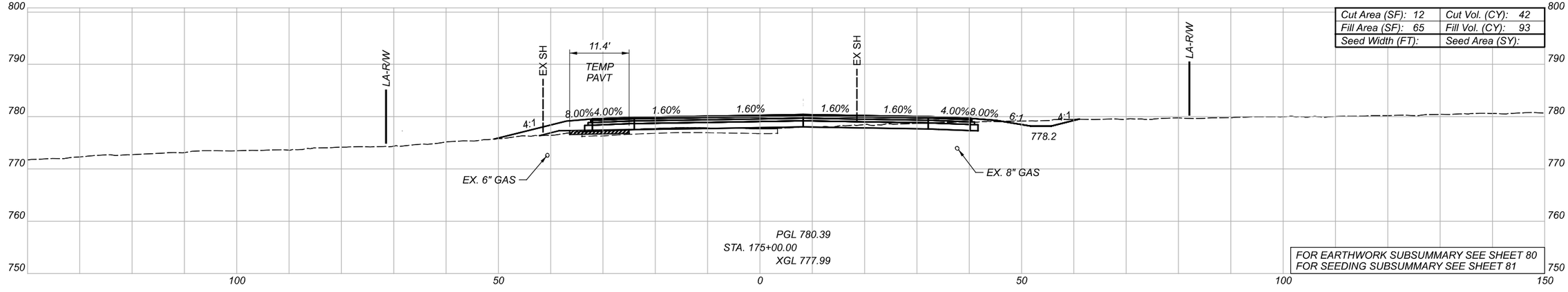
SHEET 194 TOTAL 436

WAR-63-0.83

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WAR-63-0.83

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CROSS SECTIONS - SR 63
STA. 175+00.00 TO STA. 176+00.00

DESIGN AGENCY
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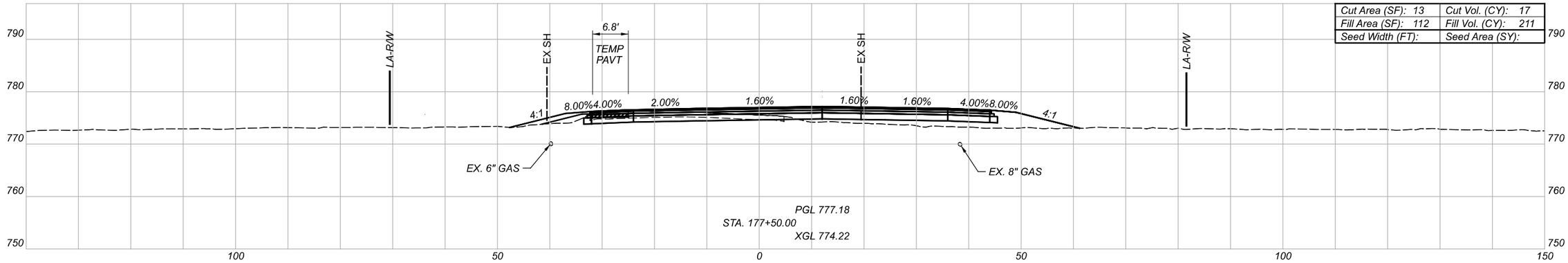
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REVIEWER
RN 08/22/23

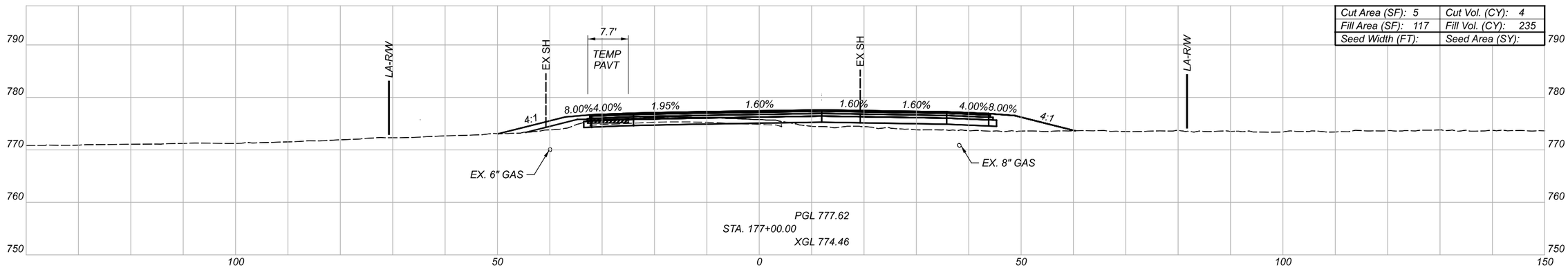
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Sheet Totals		
Seeding	Cut	Fill
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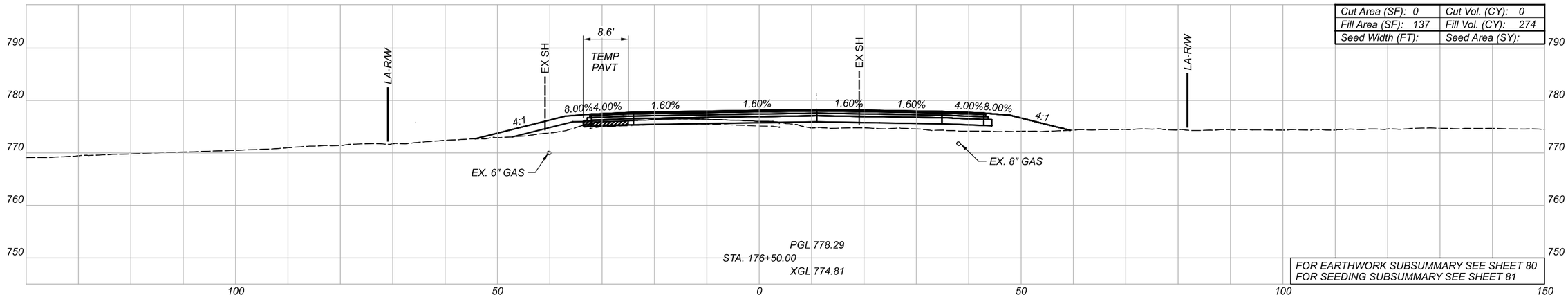
SHEET 195 TOTAL 436



Cut Area (SF): 13	Cut Vol. (CY): 17
Fill Area (SF): 112	Fill Vol. (CY): 211
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 5	Cut Vol. (CY): 4
Fill Area (SF): 117	Fill Vol. (CY): 235
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 137	Fill Vol. (CY): 274
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 176+50.00 TO STA. 177+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

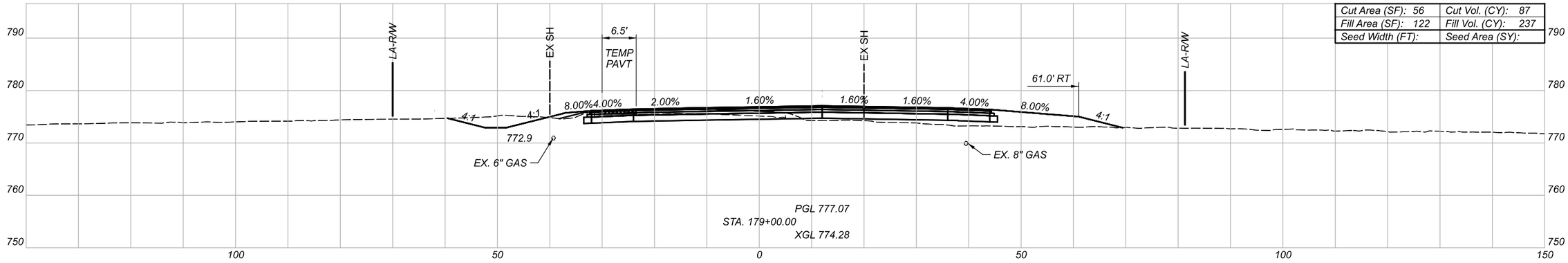
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET 196 TOTAL 436

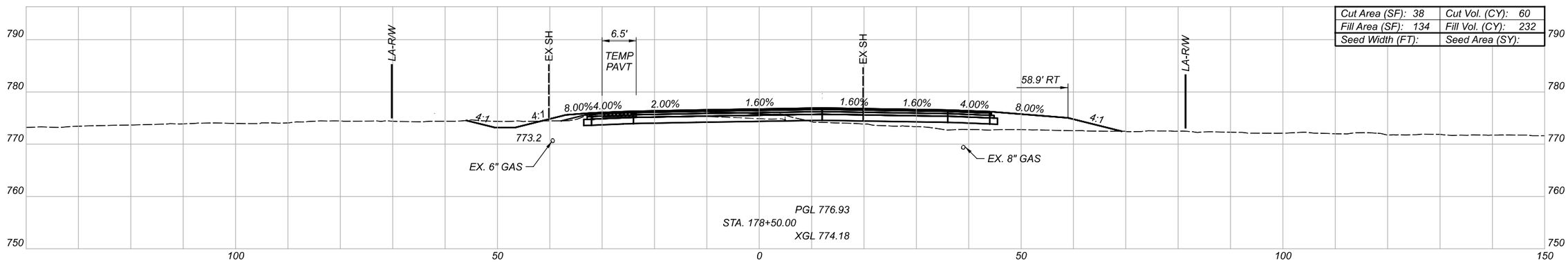
WAR-63-0.83

MODEL: CLP_SR63 - 176+50.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 2:55:13 PM USER: Tahir.Sondo@Jacobs.com
pw:\\Project=WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn



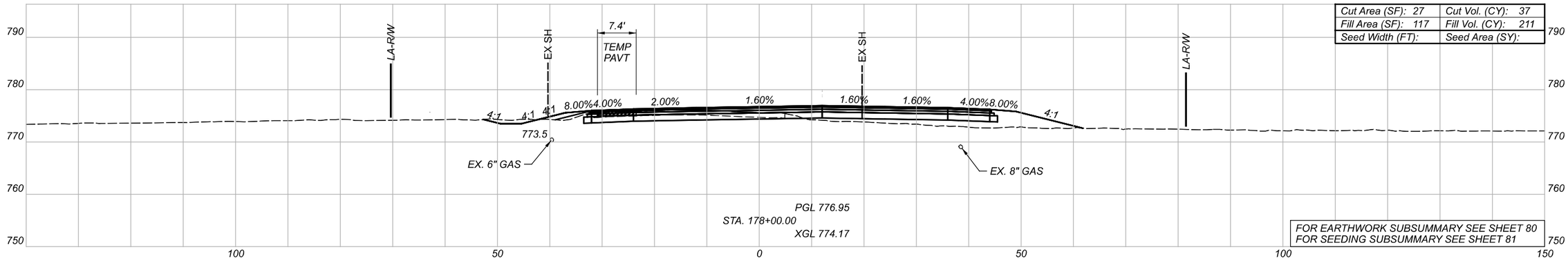
Cut Area (SF): 56	Cut Vol. (CY): 87
Fill Area (SF): 122	Fill Vol. (CY): 237
Seed Width (FT):	Seed Area (SY):

PGL 777.07
STA. 179+00.00
XGL 774.28



Cut Area (SF): 38	Cut Vol. (CY): 60
Fill Area (SF): 134	Fill Vol. (CY): 232
Seed Width (FT):	Seed Area (SY):

PGL 776.93
STA. 178+50.00
XGL 774.18



Cut Area (SF): 27	Cut Vol. (CY): 37
Fill Area (SF): 117	Fill Vol. (CY): 211
Seed Width (FT):	Seed Area (SY):

PGL 776.95
STA. 178+00.00
XGL 774.17

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 178+00.00 TO STA. 179+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

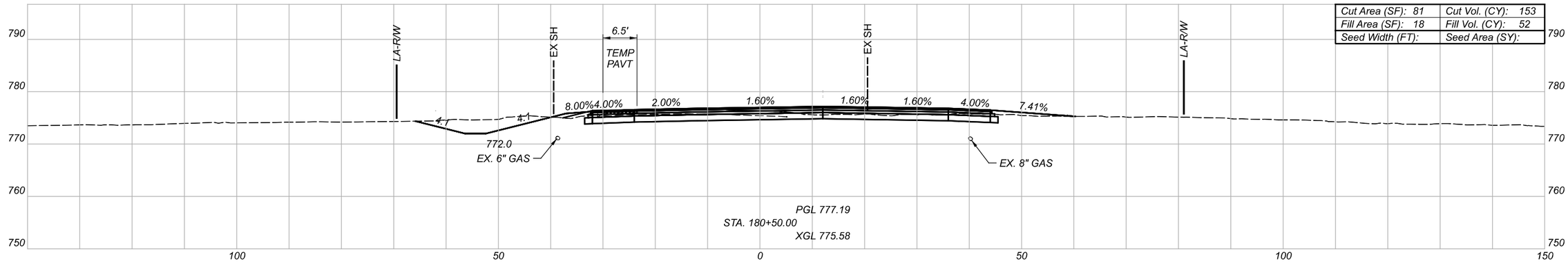
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

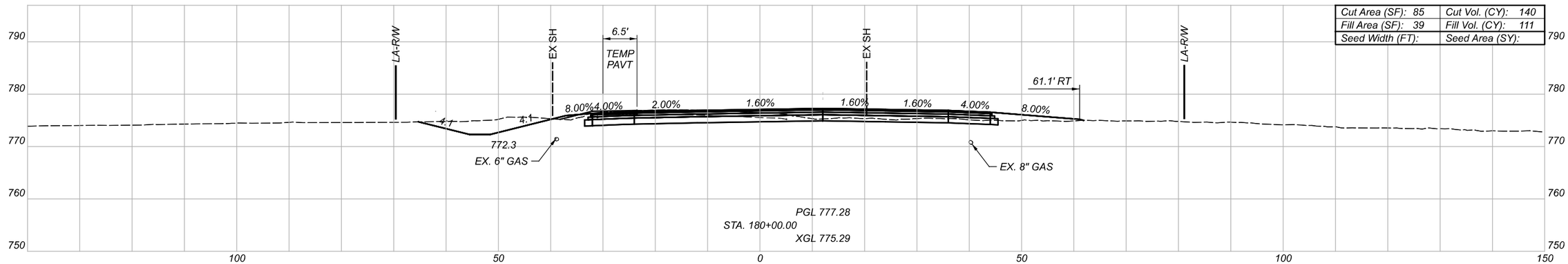
SHEET 197 TOTAL 436

WAR-63-0.83

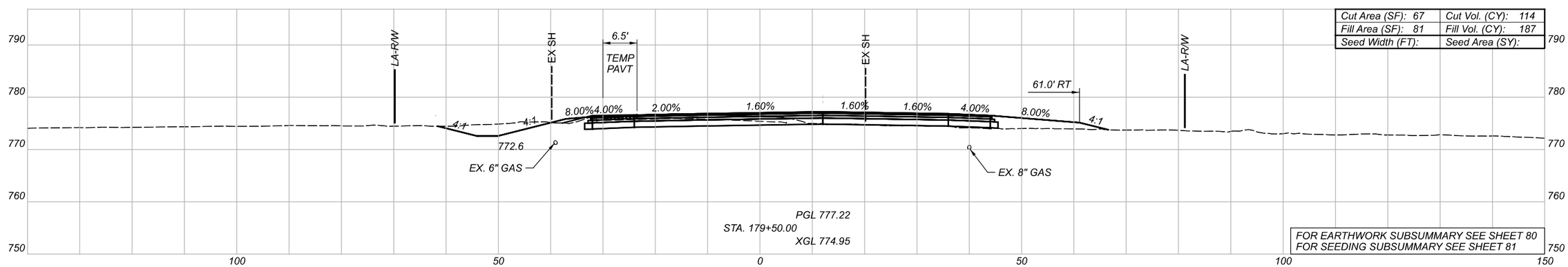
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn



Cut Area (SF): 81	Cut Vol. (CY): 153
Fill Area (SF): 18	Fill Vol. (CY): 52
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 85	Cut Vol. (CY): 140
Fill Area (SF): 39	Fill Vol. (CY): 111
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 67	Cut Vol. (CY): 114
Fill Area (SF): 81	Fill Vol. (CY): 187
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 179+50.00 TO STA. 180+50.00

DESIGN AGENCY
JACOBS

DESIGNER	JO
REVIEWER	RN 08/22/23
PROJECT ID	112121

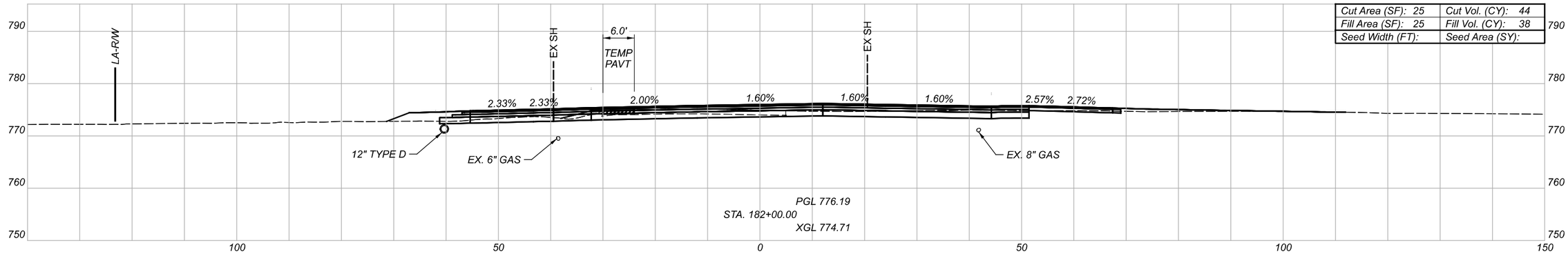
Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET	TOTAL
198	436

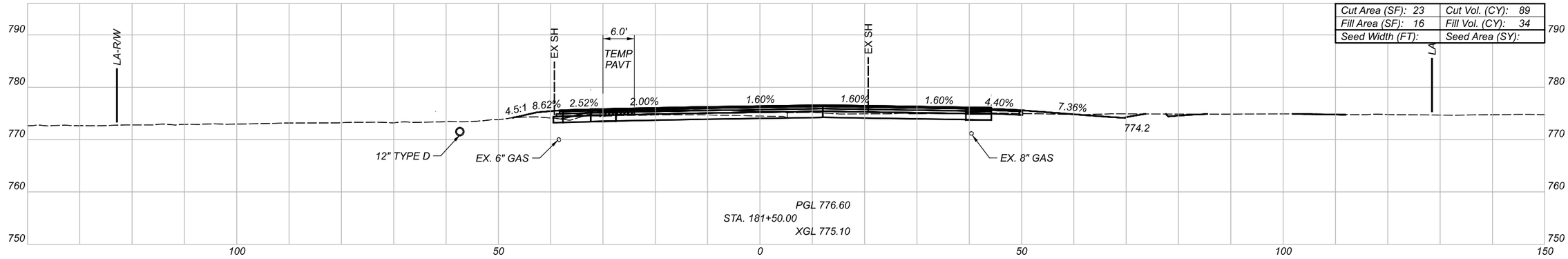
WAR-63-0.83

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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn

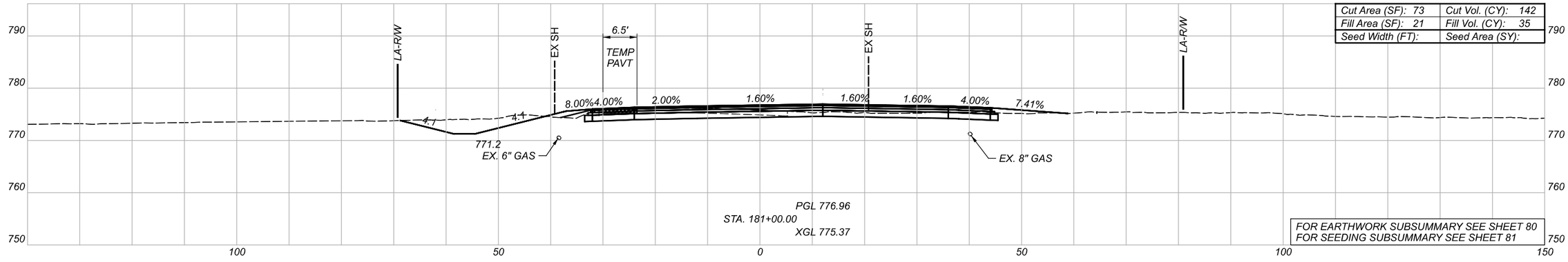
CROSS SECTIONS - SR 63
STA. 181+00.00 TO STA. 182+00.00



Cut Area (SF): 25	Cut Vol. (CY): 44
Fill Area (SF): 25	Fill Vol. (CY): 38
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 23	Cut Vol. (CY): 89
Fill Area (SF): 16	Fill Vol. (CY): 34
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 73	Cut Vol. (CY): 142
Fill Area (SF): 21	Fill Vol. (CY): 35
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

DESIGNER
JO

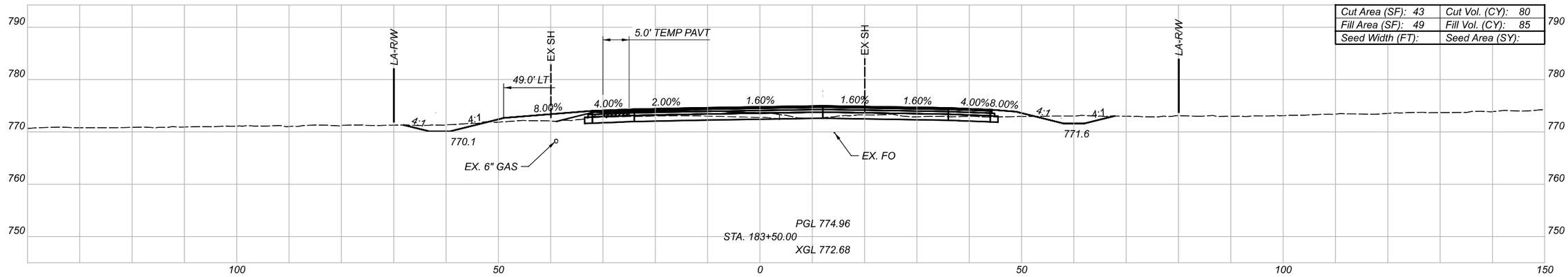
REVIEWER
RN 08/22/23

PROJECT ID
112121

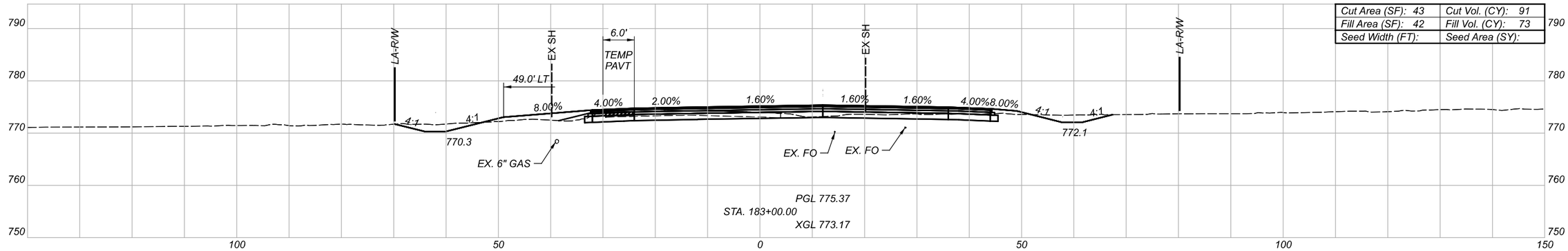
SHEET 199 TOTAL 436

WAR-63-0.83

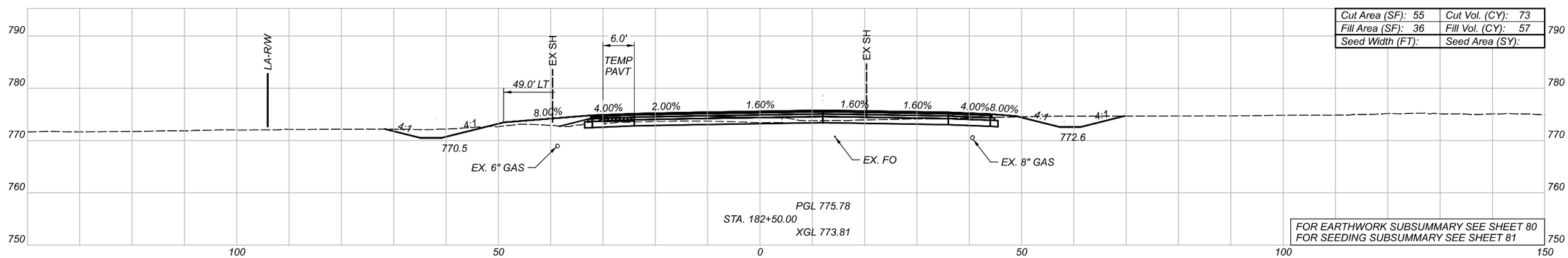
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn



Cut Area (SF): 43	Cut Vol. (CY): 80
Fill Area (SF): 49	Fill Vol. (CY): 85
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 43	Cut Vol. (CY): 91
Fill Area (SF): 42	Fill Vol. (CY): 73
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 55	Cut Vol. (CY): 73
Fill Area (SF): 36	Fill Vol. (CY): 57
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 182+50.00 TO STA. 183+50.00

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

DESIGNER
JO

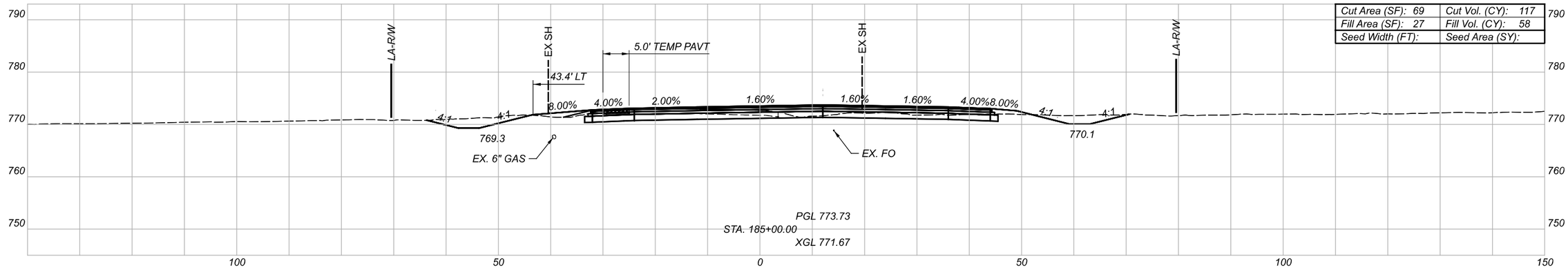
REVIEWER
RN 08/22/23

PROJECT ID
112121

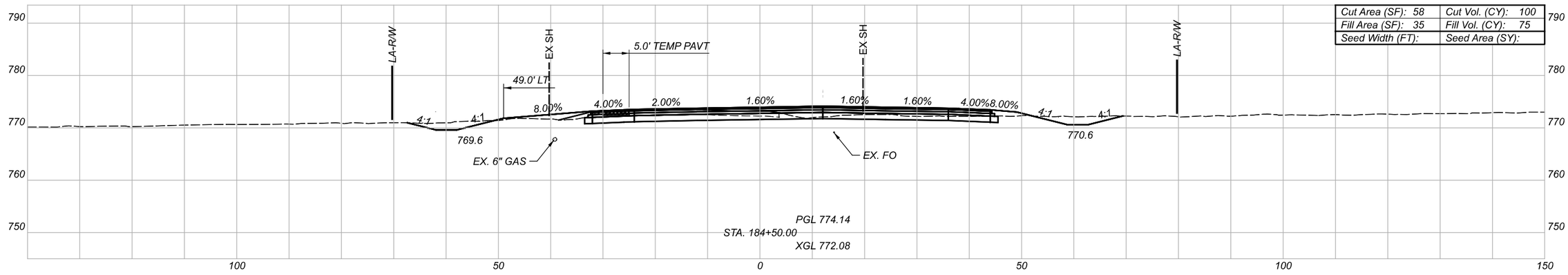
SHEET 200 TOTAL 436

WAR-63-0.83

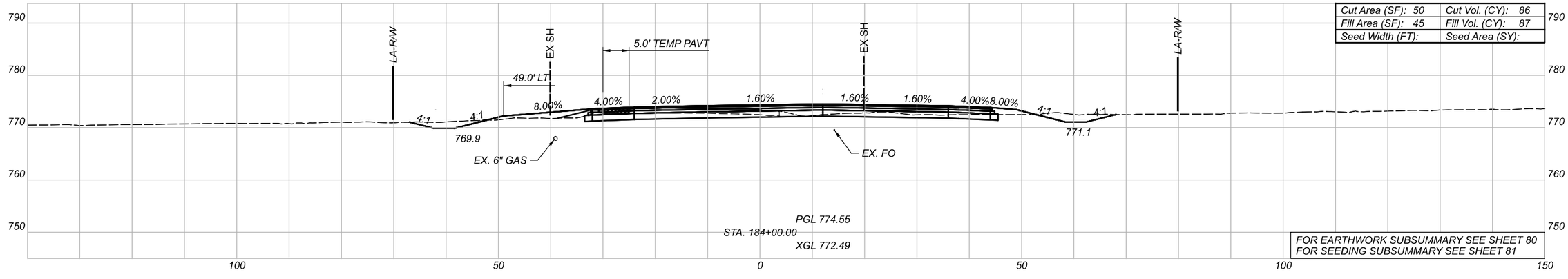
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pw:\\Project#WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00l.dgn



Cut Area (SF): 69	Cut Vol. (CY): 117
Fill Area (SF): 27	Fill Vol. (CY): 58
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 58	Cut Vol. (CY): 100
Fill Area (SF): 35	Fill Vol. (CY): 75
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 50	Cut Vol. (CY): 86
Fill Area (SF): 45	Fill Vol. (CY): 87
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 184+00.00 TO STA. 185+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

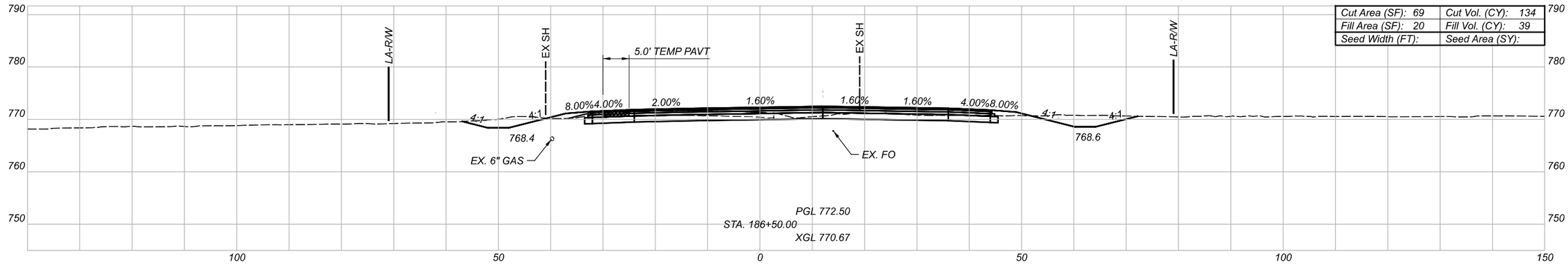
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

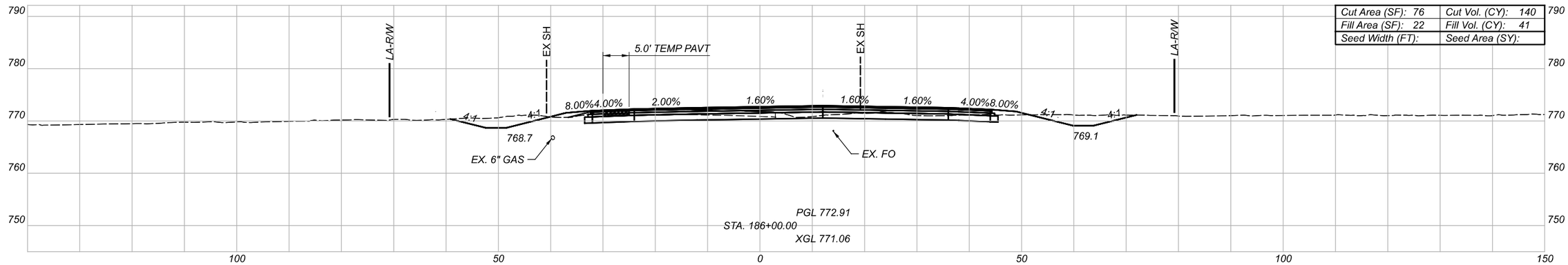
SHEET 201 TOTAL 436

WAR-63-0.83

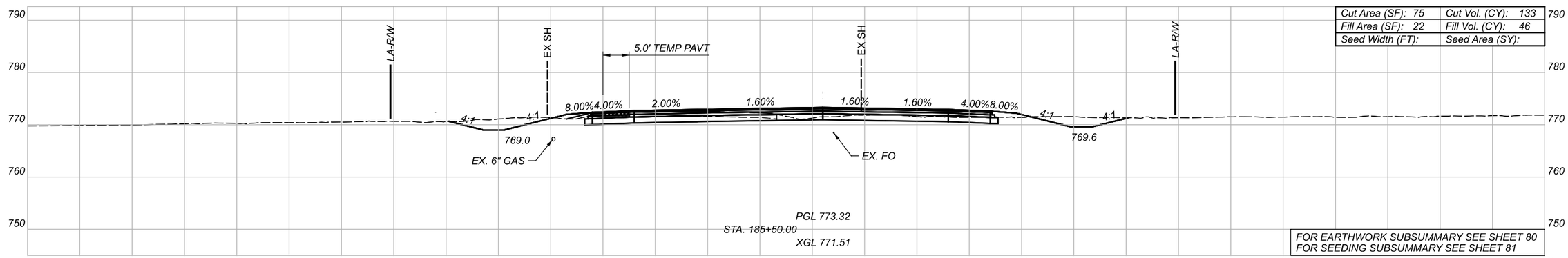
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn



Cut Area (SF): 69	Cut Vol. (CY): 134
Fill Area (SF): 20	Fill Vol. (CY): 39
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 76	Cut Vol. (CY): 140
Fill Area (SF): 22	Fill Vol. (CY): 41
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 75	Cut Vol. (CY): 133
Fill Area (SF): 22	Fill Vol. (CY): 46
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 185+50.00 TO STA. 186+50.00

WAR-63-0.83

MODEL: CLP_SR63 - 185+50.00 [Sheet] PAPERSIZE: 17x11(in) DATE: 8/23/2023 TIME: 2:59:00 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn

DESIGN AGENCY
JACOBS

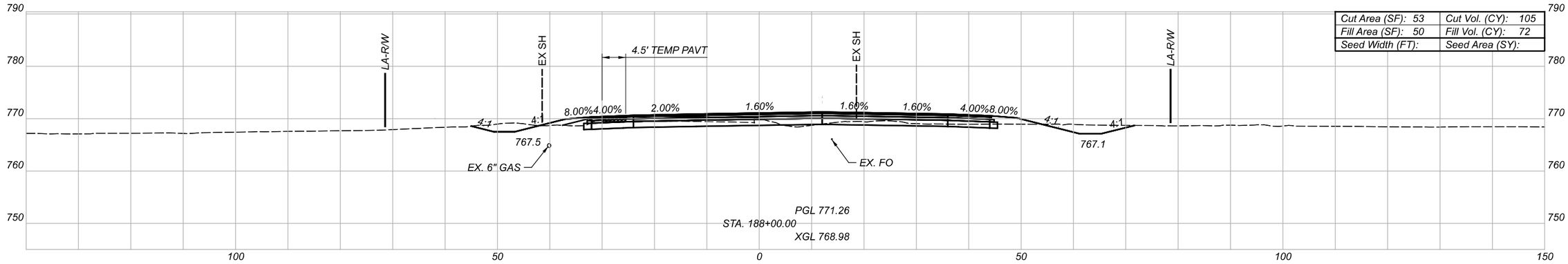
DESIGNER
JO

REVIEWER
RN 08/22/23

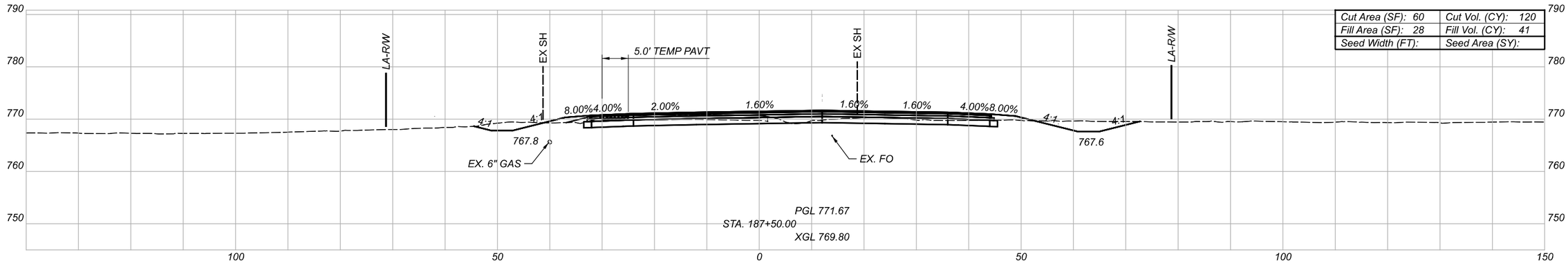
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
.	.	.

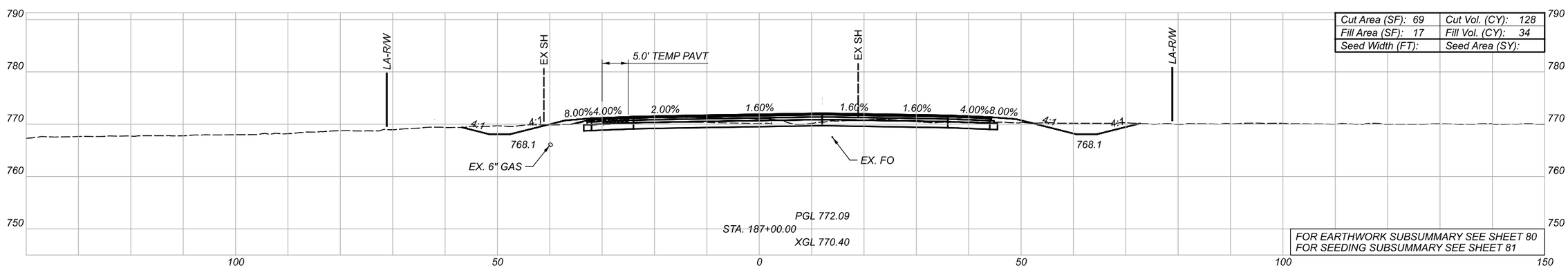
SHEET 202 TOTAL 436



Cut Area (SF): 53	Cut Vol. (CY): 105
Fill Area (SF): 50	Fill Vol. (CY): 72
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 60	Cut Vol. (CY): 120
Fill Area (SF): 28	Fill Vol. (CY): 41
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 69	Cut Vol. (CY): 128
Fill Area (SF): 17	Fill Vol. (CY): 34
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 187+00.00 TO STA. 188+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

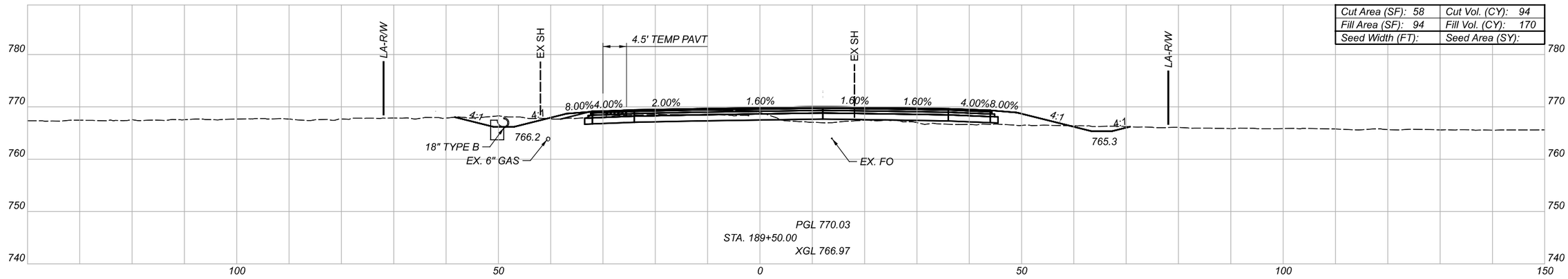
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET 203 TOTAL 436

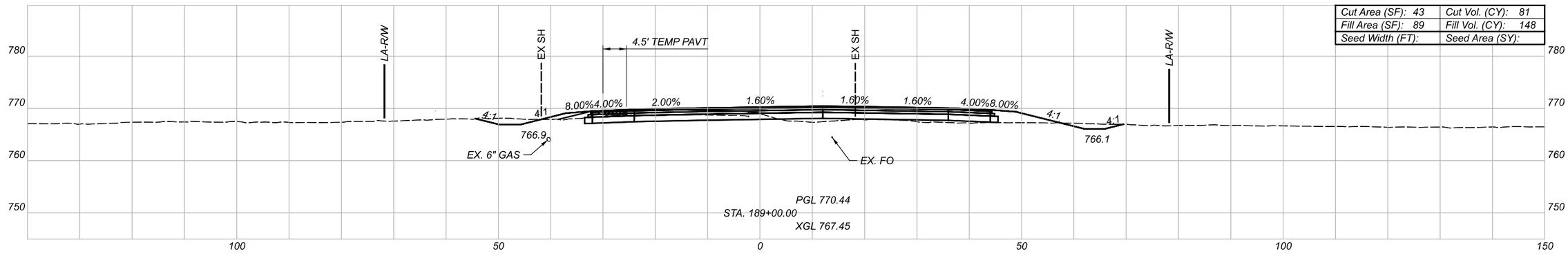
WAR-63-0.83

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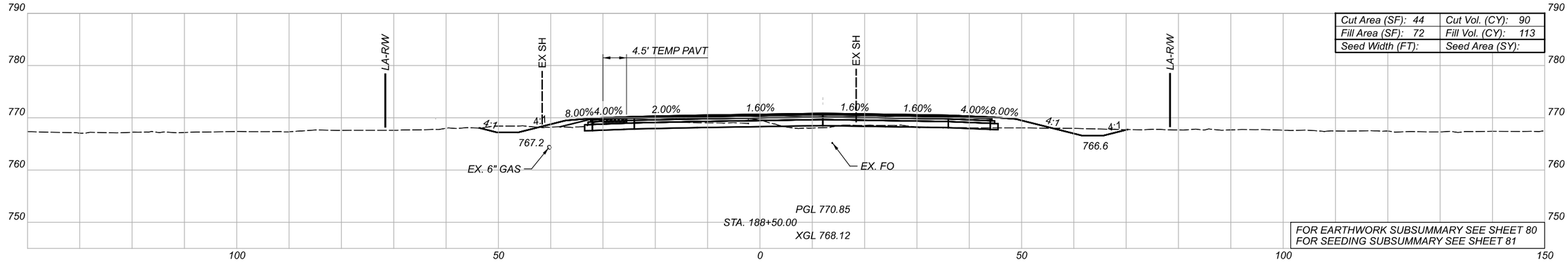
Cut Area (SF): 58	Cut Vol. (CY): 94
Fill Area (SF): 94	Fill Vol. (CY): 170
Seed Width (FT):	Seed Area (SY):

PGL 770.03
STA. 189+50.00
XGL 766.97



Cut Area (SF): 43	Cut Vol. (CY): 81
Fill Area (SF): 89	Fill Vol. (CY): 148
Seed Width (FT):	Seed Area (SY):

PGL 770.44
STA. 189+00.00
XGL 767.45



Cut Area (SF): 44	Cut Vol. (CY): 90
Fill Area (SF): 72	Fill Vol. (CY): 113
Seed Width (FT):	Seed Area (SY):

PGL 770.85
STA. 188+50.00
XGL 768.12

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 188+50.00 TO STA. 189+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

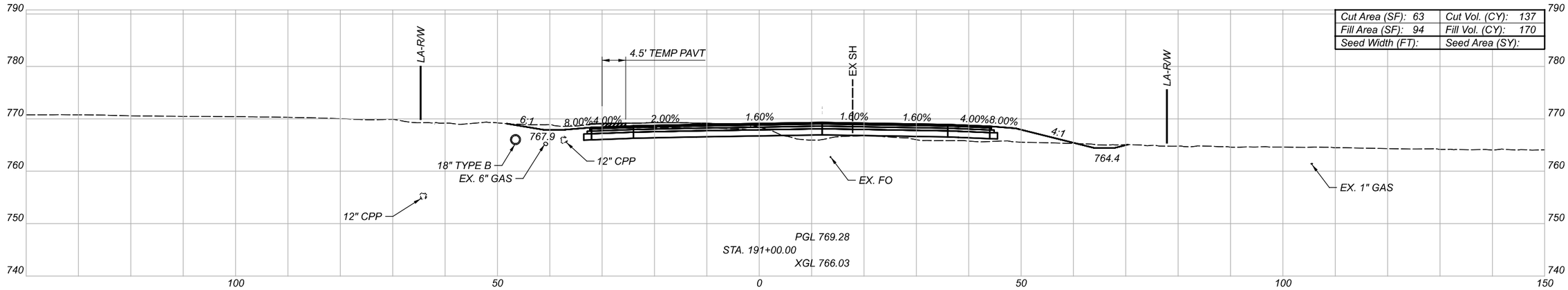
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
.	.	.

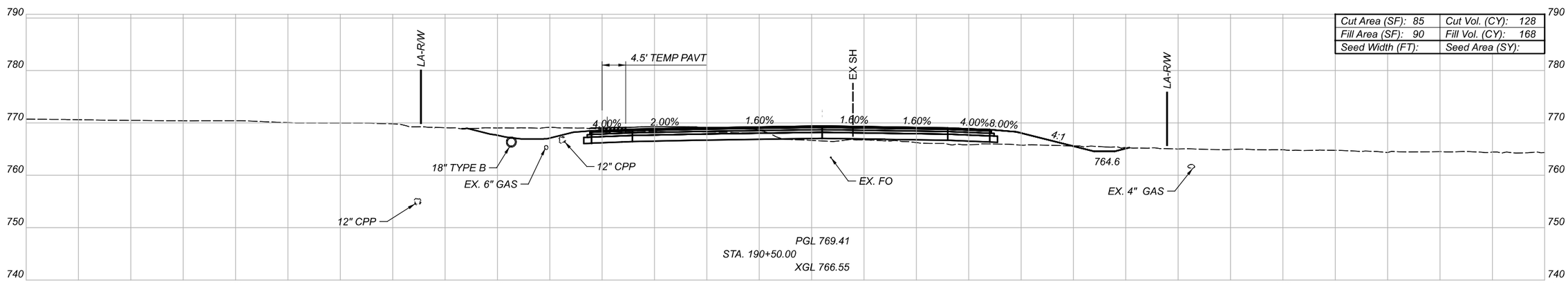
SHEET 204 TOTAL 436

WAR-63-0.83

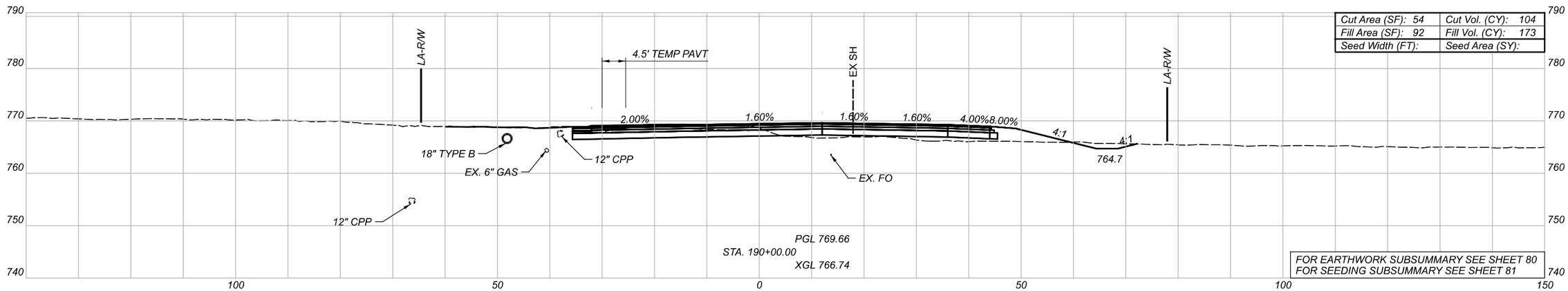
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn



Cut Area (SF): 63	Cut Vol. (CY): 137
Fill Area (SF): 94	Fill Vol. (CY): 170
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 85	Cut Vol. (CY): 128
Fill Area (SF): 90	Fill Vol. (CY): 168
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 54	Cut Vol. (CY): 104
Fill Area (SF): 92	Fill Vol. (CY): 173
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 190+00.00 TO STA. 191+00.00

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

DESIGNER
JO

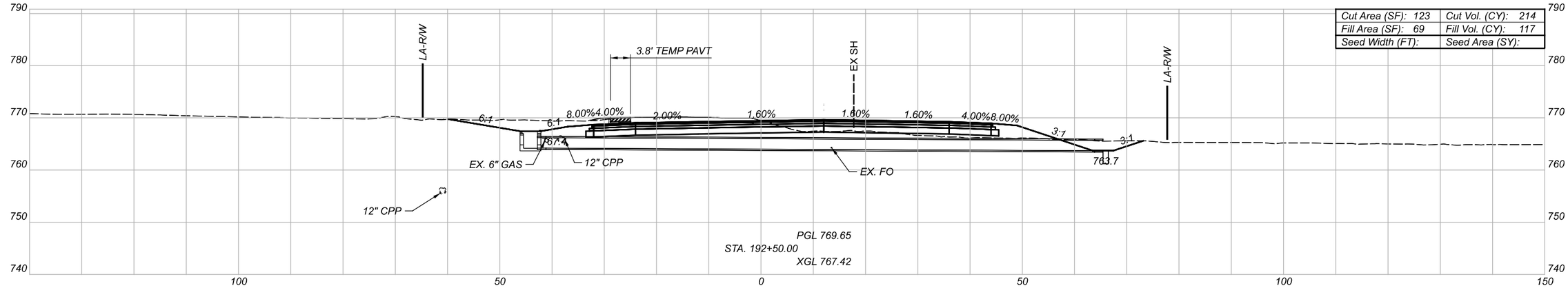
REVIEWER
RN 08/22/23

PROJECT ID
112121

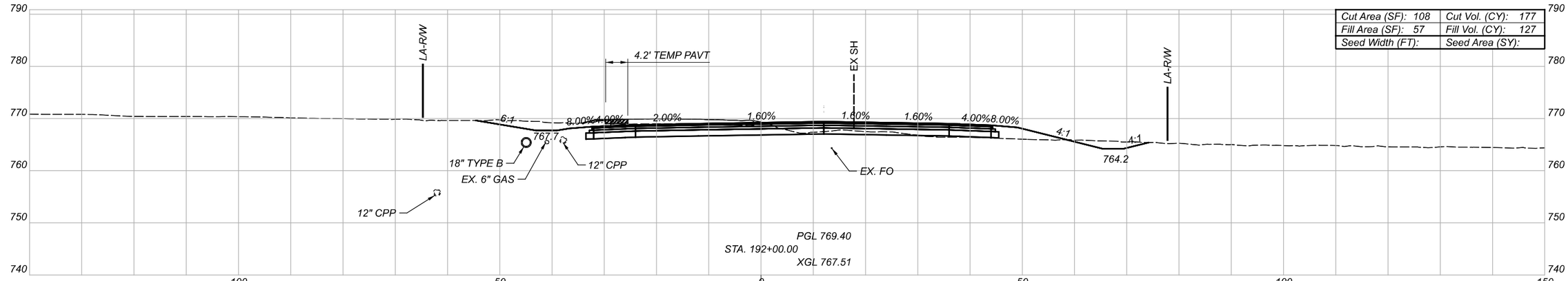
SHEET 205 | TOTAL 436

WAR-63-0.83

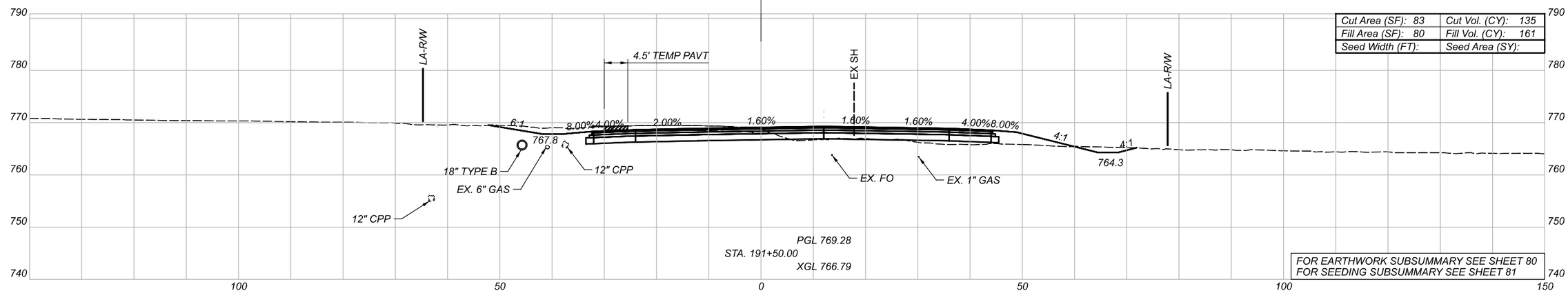
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn



Cut Area (SF): 123	Cut Vol. (CY): 214
Fill Area (SF): 69	Fill Vol. (CY): 117
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 108	Cut Vol. (CY): 177
Fill Area (SF): 57	Fill Vol. (CY): 127
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 83	Cut Vol. (CY): 135
Fill Area (SF): 80	Fill Vol. (CY): 161
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 191+50.00 TO STA. 192+50.00

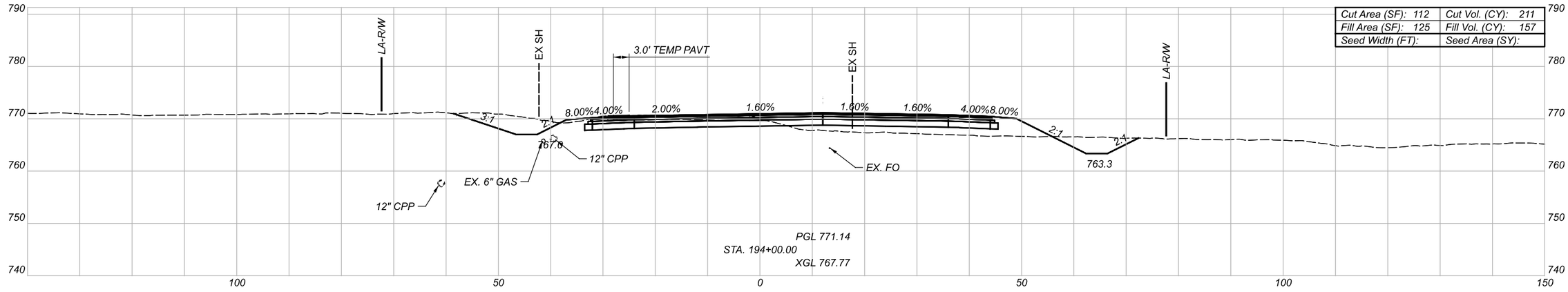
DESIGN AGENCY
JACOBS

DESIGNER	JO
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	206
TOTAL	436

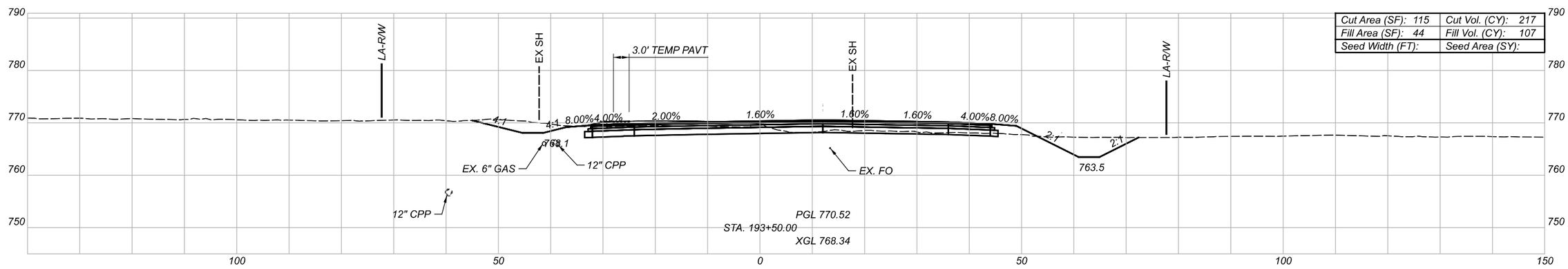
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WAR-63-0.83

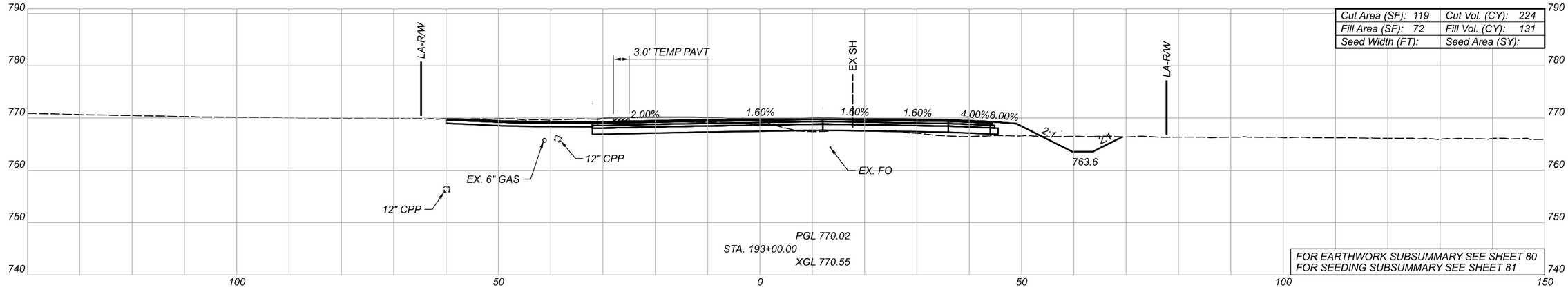
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn



Cut Area (SF): 112	Cut Vol. (CY): 211
Fill Area (SF): 125	Fill Vol. (CY): 157
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 115	Cut Vol. (CY): 217
Fill Area (SF): 44	Fill Vol. (CY): 107
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 119	Cut Vol. (CY): 224
Fill Area (SF): 72	Fill Vol. (CY): 131
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 193+00.00 TO STA. 194+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

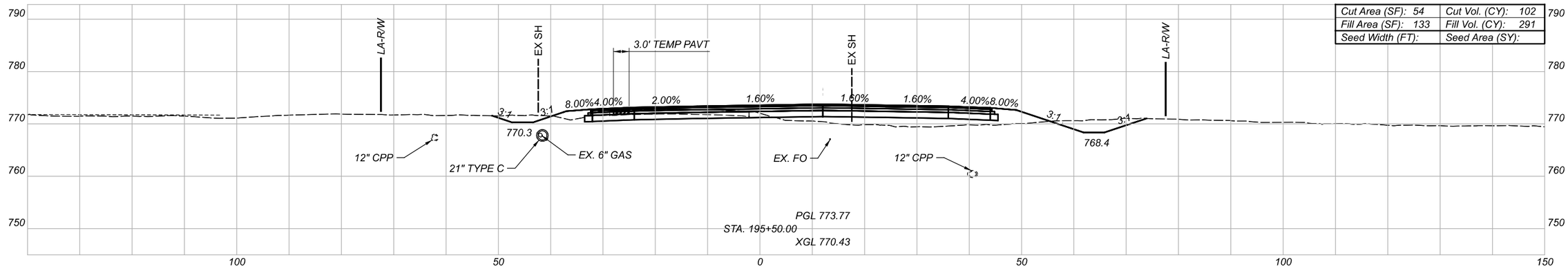
PROJECT ID
112121

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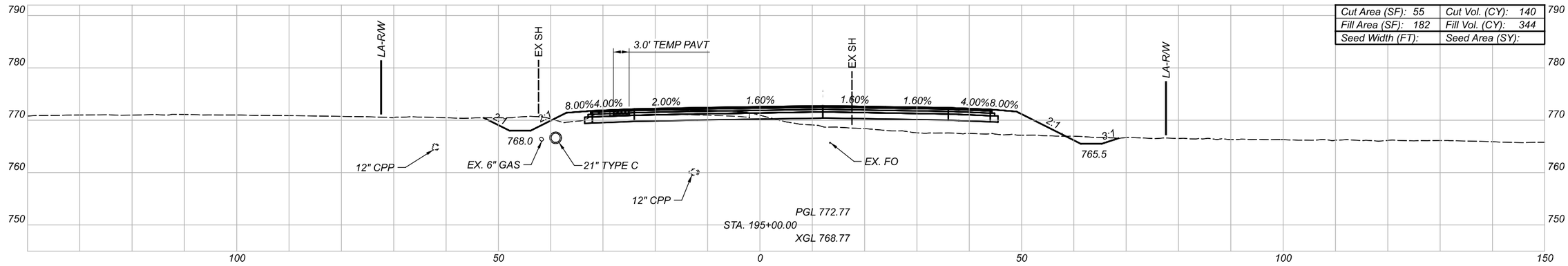
SHEET 207 TOTAL 436

WAR-63-0.83

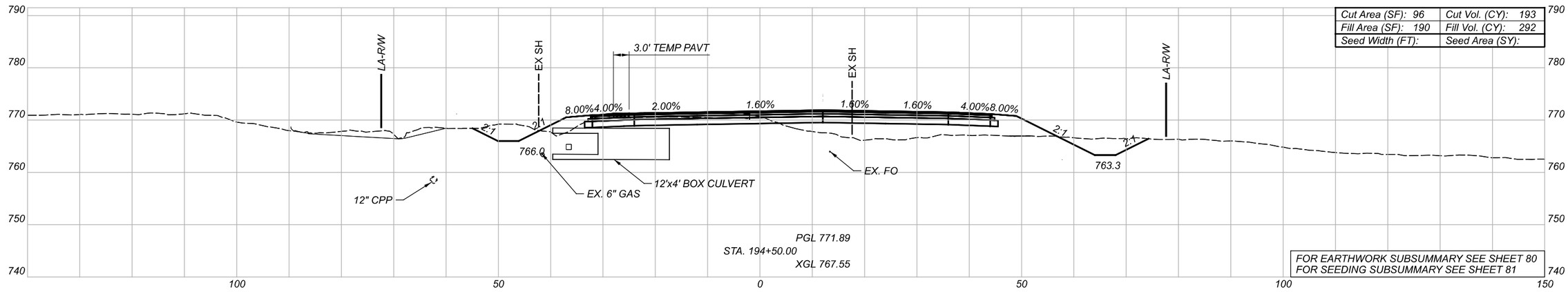
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6AI8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn



Cut Area (SF): 54	Cut Vol. (CY): 102
Fill Area (SF): 133	Fill Vol. (CY): 291
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 55	Cut Vol. (CY): 140
Fill Area (SF): 182	Fill Vol. (CY): 344
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 96	Cut Vol. (CY): 193
Fill Area (SF): 190	Fill Vol. (CY): 292
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 194+50.00 TO STA. 195+50.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
JACOBS

DESIGNER
JO

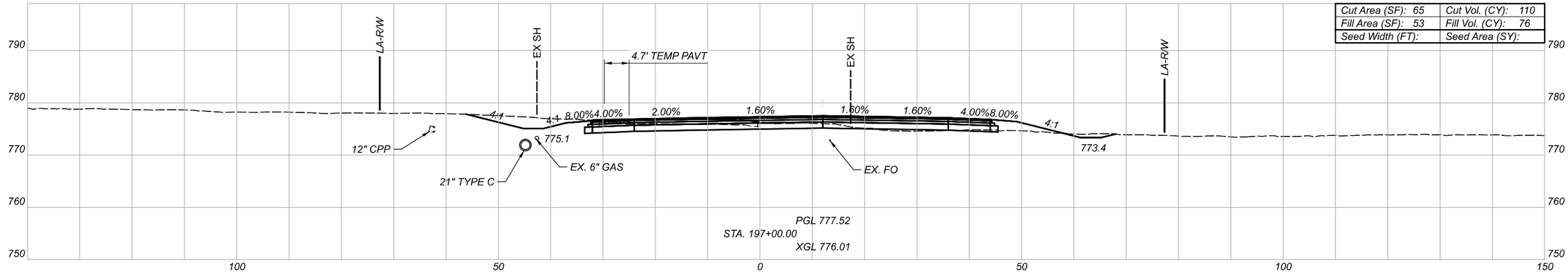
REVIEWER
RN 08/22/23

PROJECT ID
112121

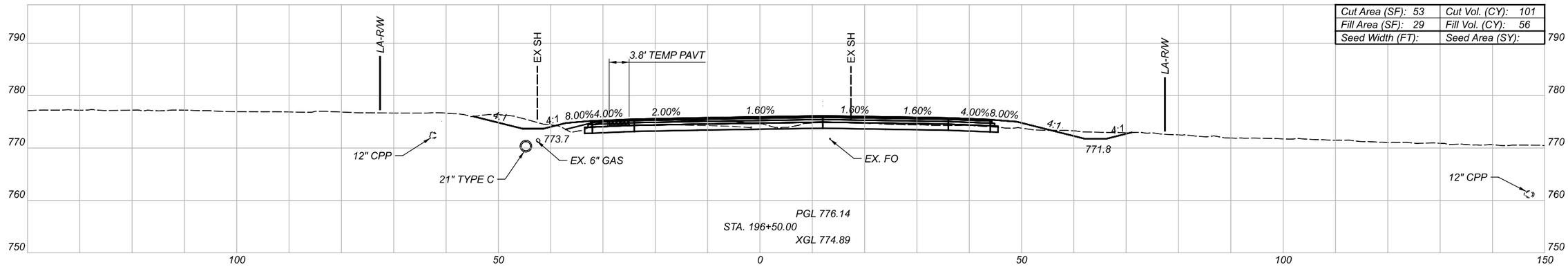
SHEET 208 TOTAL 436

WAR-63-0.83

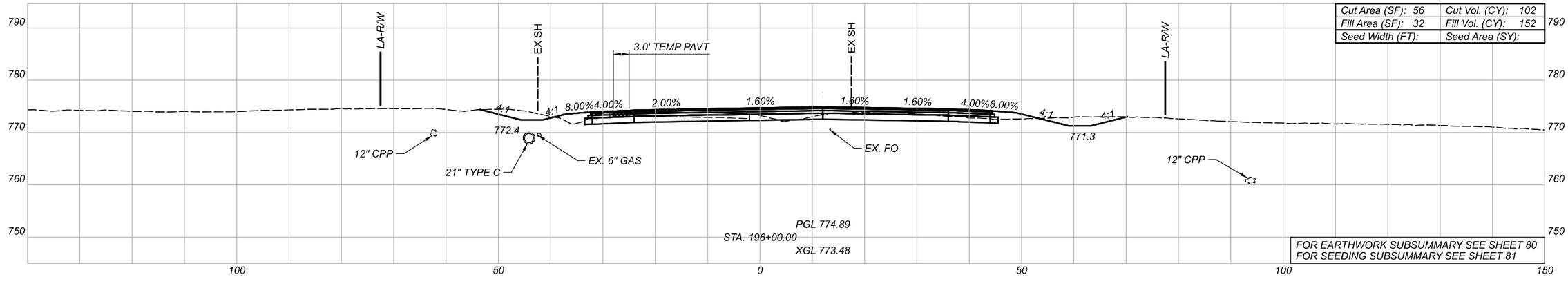
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Cut Area (SF): 65	Cut Vol. (CY): 110
Fill Area (SF): 53	Fill Vol. (CY): 76
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 53	Cut Vol. (CY): 101
Fill Area (SF): 29	Fill Vol. (CY): 56
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 56	Cut Vol. (CY): 102
Fill Area (SF): 32	Fill Vol. (CY): 152
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 196+00.00 TO STA. 197+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

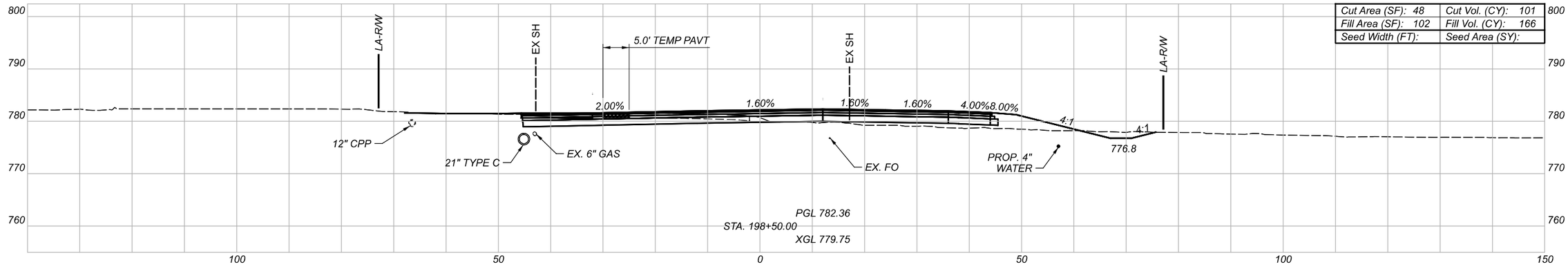
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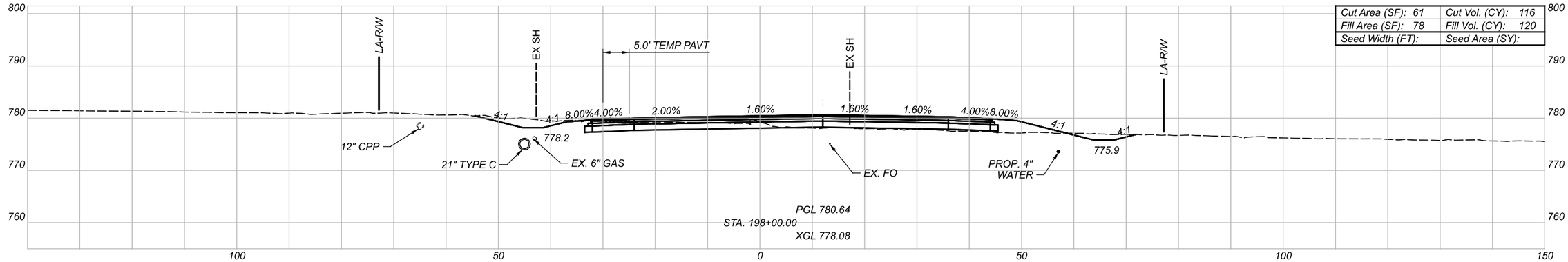
SHEET 209 TOTAL 436

WAR-63-0.83

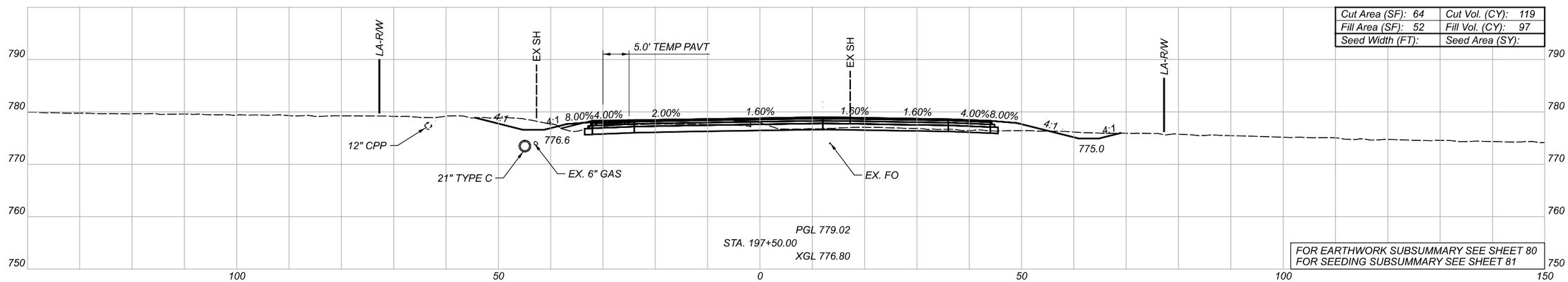
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Cut Area (SF): 48	Cut Vol. (CY): 101
Fill Area (SF): 102	Fill Vol. (CY): 166
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 61	Cut Vol. (CY): 116
Fill Area (SF): 78	Fill Vol. (CY): 120
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 64	Cut Vol. (CY): 119
Fill Area (SF): 52	Fill Vol. (CY): 97
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 197+50.00 TO STA. 198+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

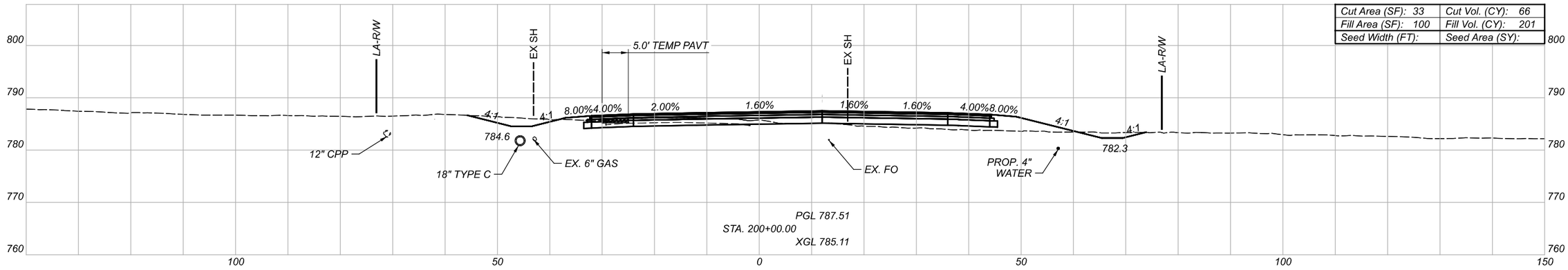
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Sheet Totals		
Seeding	Cut	Fill
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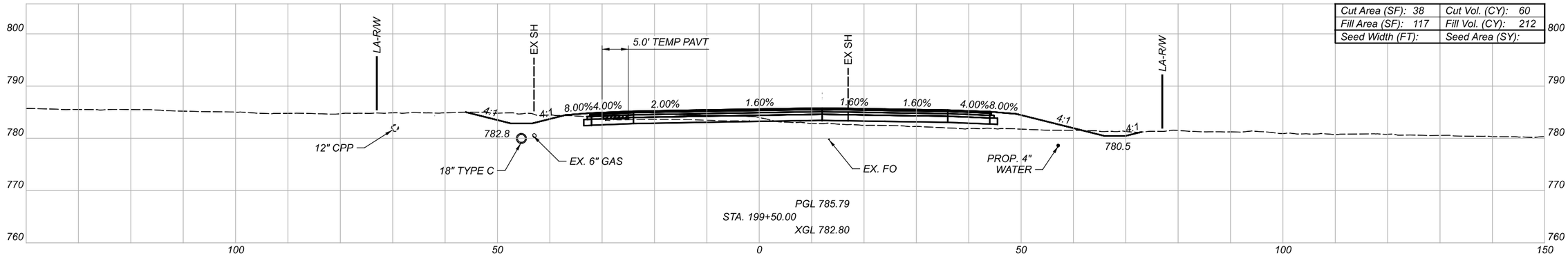
SHEET 210 TOTAL 436

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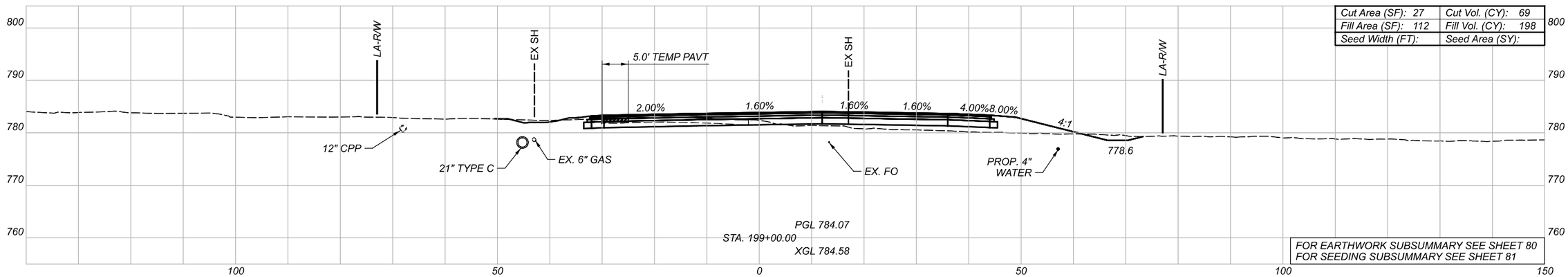
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Cut Area (SF): 33	Cut Vol. (CY): 66
Fill Area (SF): 100	Fill Vol. (CY): 201
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 38	Cut Vol. (CY): 60
Fill Area (SF): 117	Fill Vol. (CY): 212
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 27	Cut Vol. (CY): 69
Fill Area (SF): 112	Fill Vol. (CY): 198
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 199+00.00 TO STA. 200+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

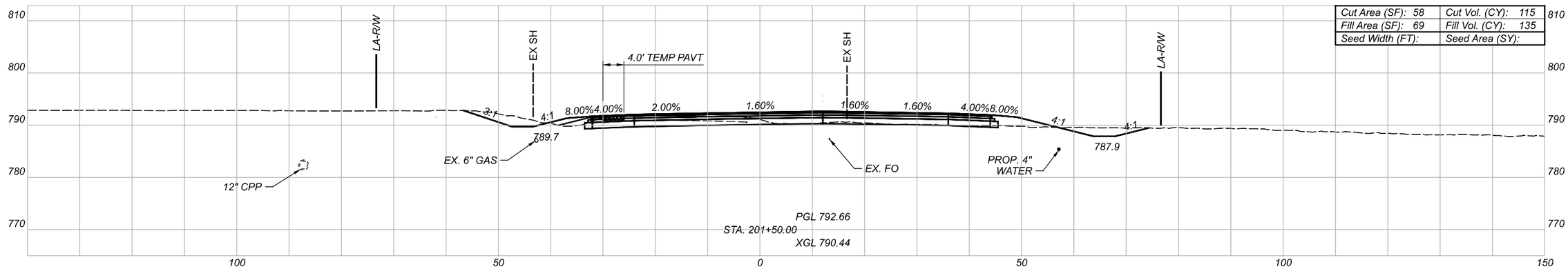
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Sheet Totals		
Seeding	Cut	Fill
-	-	-

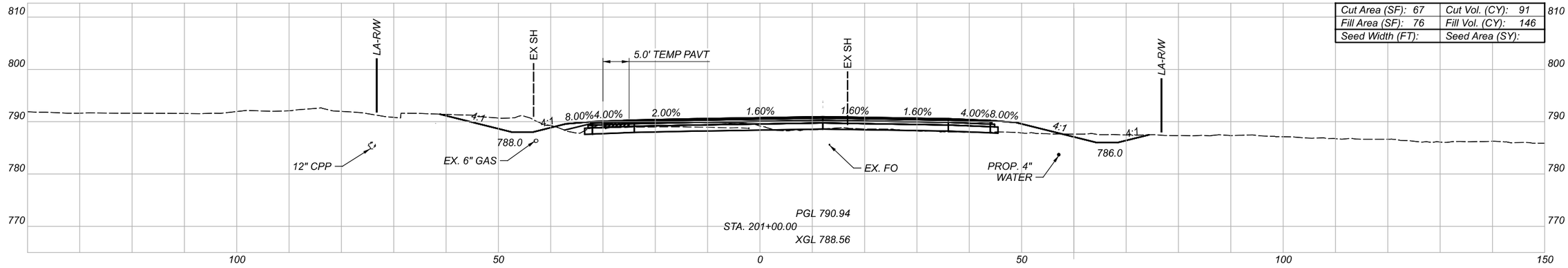
SHEET 211 TOTAL 436

WAR-63-0.83

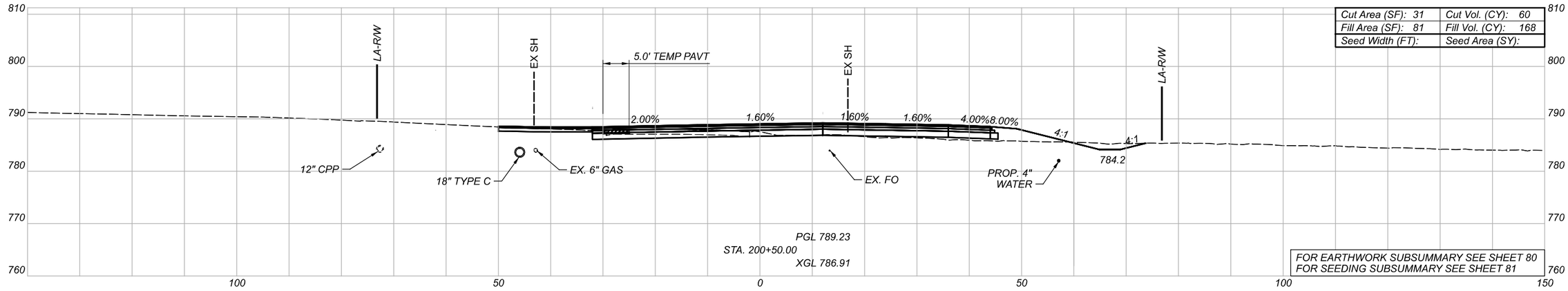
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Cut Area (SF): 58	Cut Vol. (CY): 115
Fill Area (SF): 69	Fill Vol. (CY): 135
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 67	Cut Vol. (CY): 91
Fill Area (SF): 76	Fill Vol. (CY): 146
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 31	Cut Vol. (CY): 60
Fill Area (SF): 81	Fill Vol. (CY): 168
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 200+50.00 TO STA. 201+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

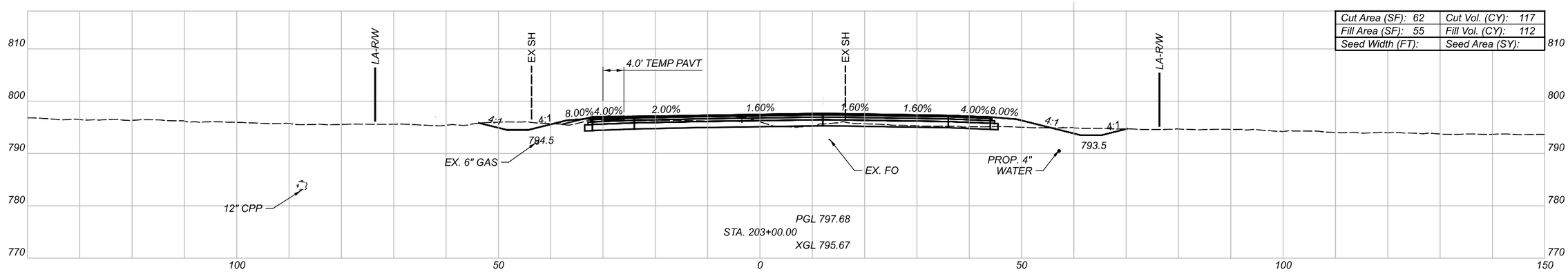
PROJECT ID
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Sheet Totals		
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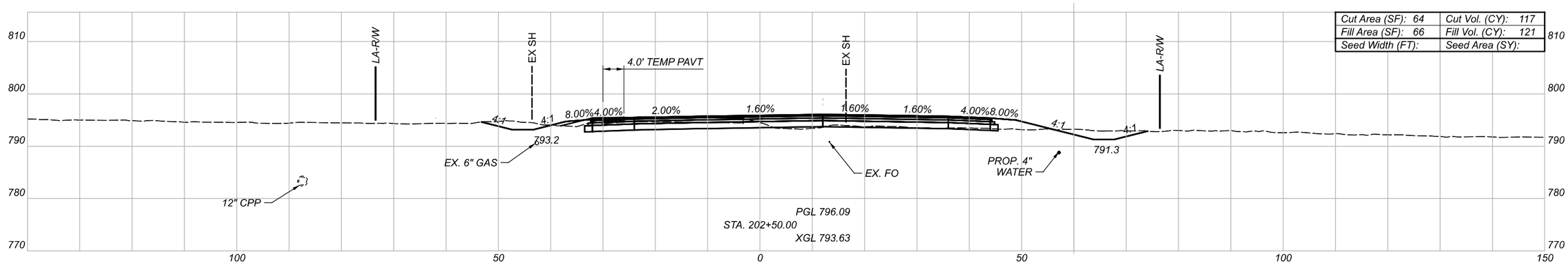
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WAR-63-0.83

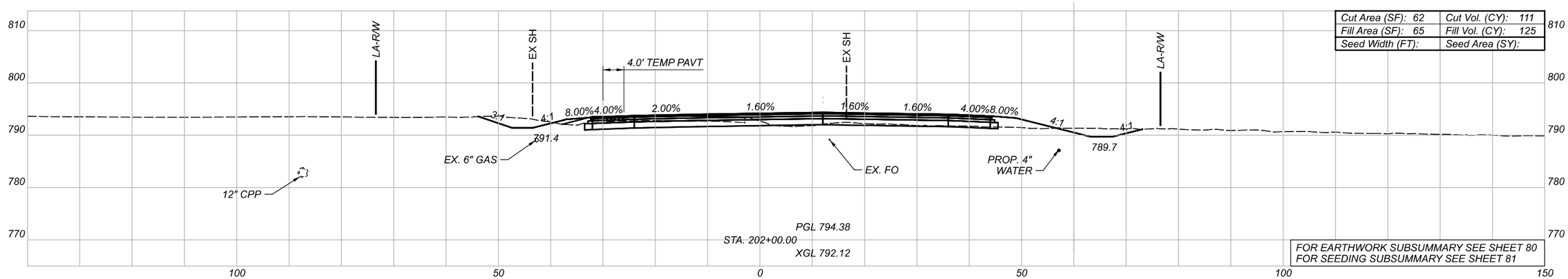
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Cut Area (SF): 62	Cut Vol. (CY): 117
Fill Area (SF): 55	Fill Vol. (CY): 112
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 64	Cut Vol. (CY): 117
Fill Area (SF): 66	Fill Vol. (CY): 121
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 62	Cut Vol. (CY): 111
Fill Area (SF): 65	Fill Vol. (CY): 125
Seed Width (FT):	Seed Area (SY):

CROSS SECTIONS - SR 63
STA. 202+00.00 TO STA. 203+00.00

WAR-63-0.83

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DESIGN AGENCY
JACOBS

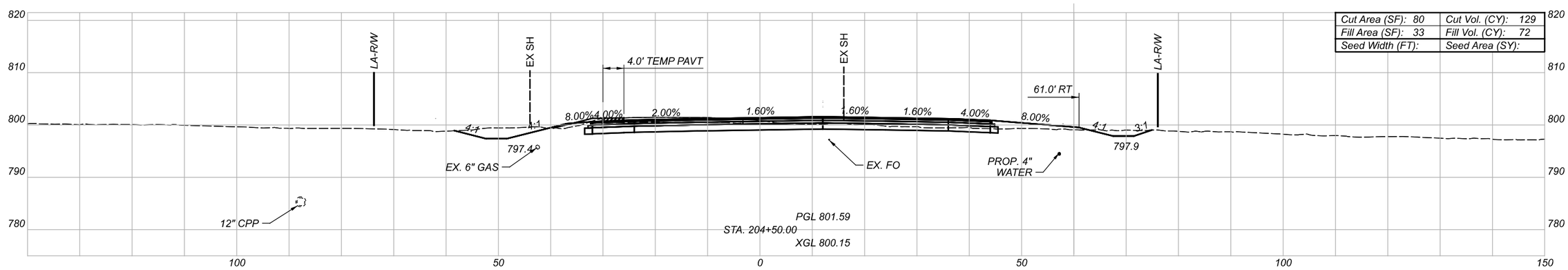
DESIGNER
JO

REVIEWER
RN 08/22/23

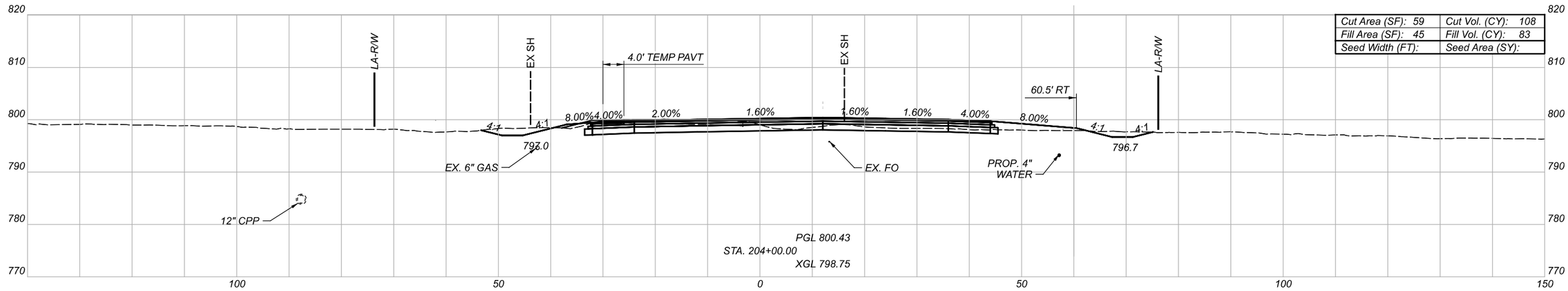
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
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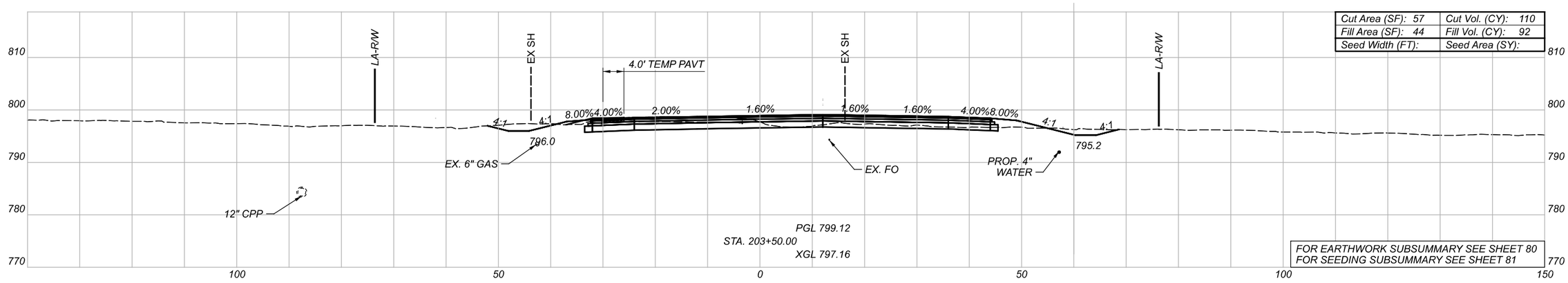
SHEET 213 TOTAL 436



Cut Area (SF): 80	Cut Vol. (CY): 129
Fill Area (SF): 33	Fill Vol. (CY): 72
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 59	Cut Vol. (CY): 108
Fill Area (SF): 45	Fill Vol. (CY): 83
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 57	Cut Vol. (CY): 110
Fill Area (SF): 44	Fill Vol. (CY): 92
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 203+50.00 TO STA. 204+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

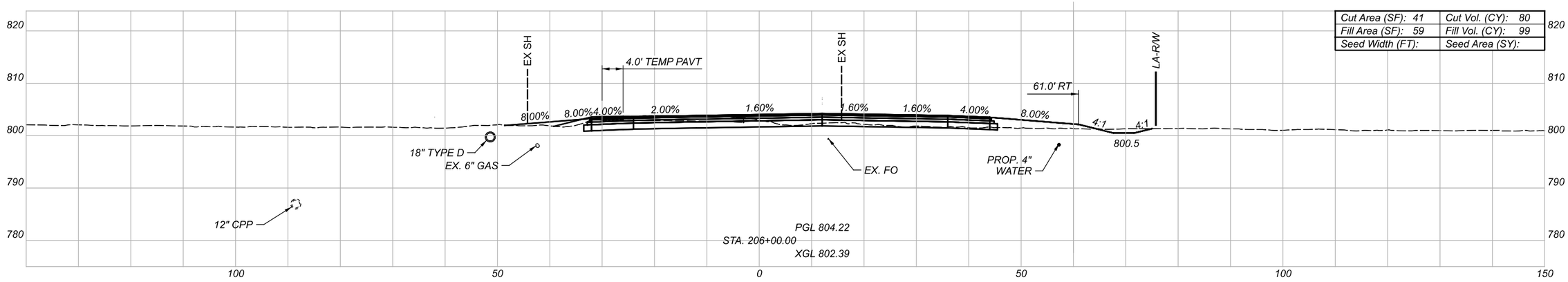
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Sheet Totals		
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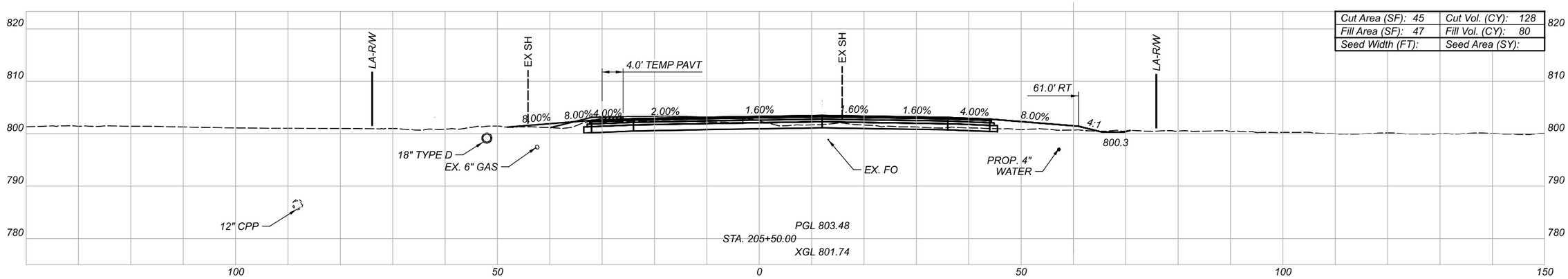
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WAR-63-0.83

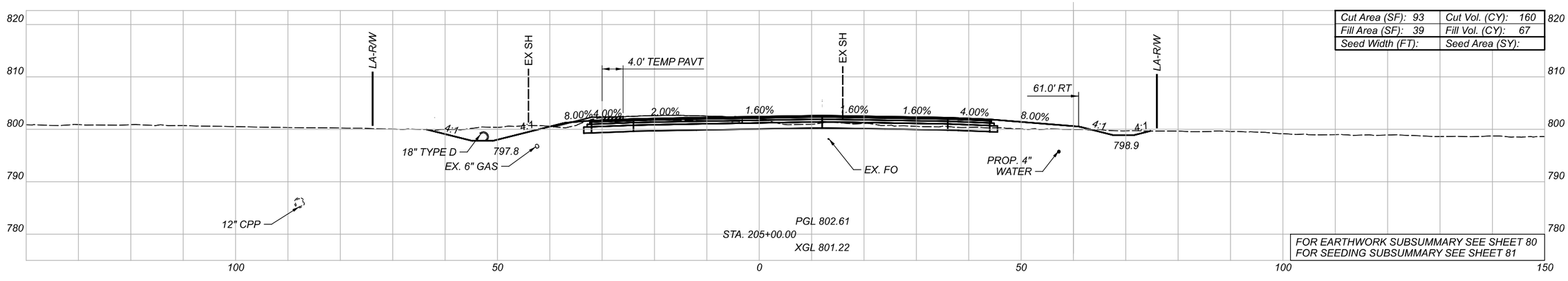
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Cut Area (SF): 41	Cut Vol. (CY): 80
Fill Area (SF): 59	Fill Vol. (CY): 99
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 45	Cut Vol. (CY): 128
Fill Area (SF): 47	Fill Vol. (CY): 80
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 93	Cut Vol. (CY): 160
Fill Area (SF): 39	Fill Vol. (CY): 67
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 205+00.00 TO STA. 206+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

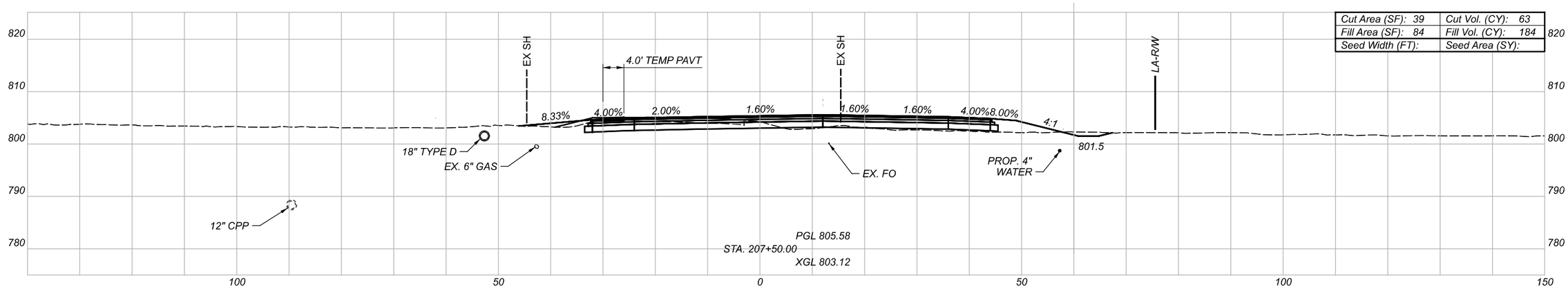
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
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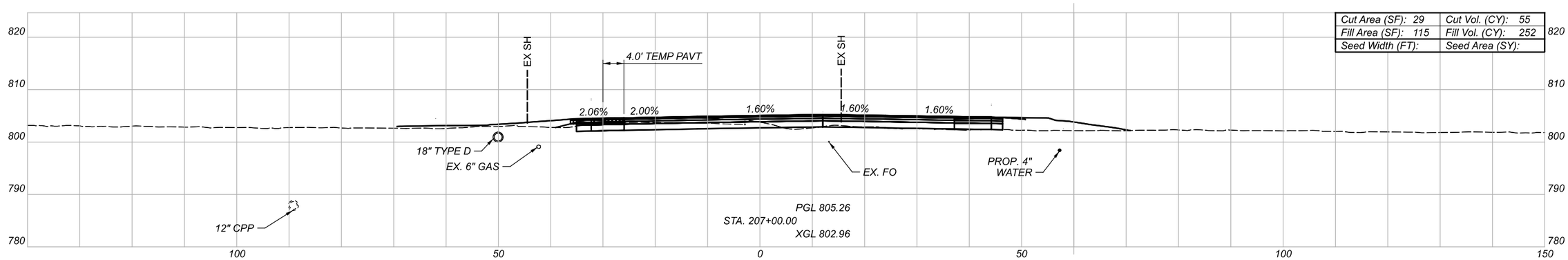
SHEET 215 TOTAL 436

WAR-63-0.83

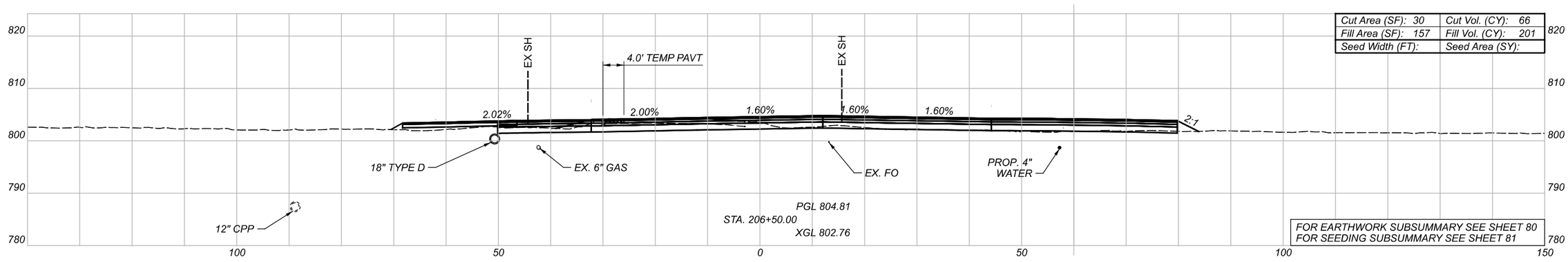
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn



Cut Area (SF): 39	Cut Vol. (CY): 63
Fill Area (SF): 84	Fill Vol. (CY): 184
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 29	Cut Vol. (CY): 55
Fill Area (SF): 115	Fill Vol. (CY): 252
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 30	Cut Vol. (CY): 66
Fill Area (SF): 157	Fill Vol. (CY): 201
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 206+50.00 TO STA. 207+50.00

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

DESIGNER
JO

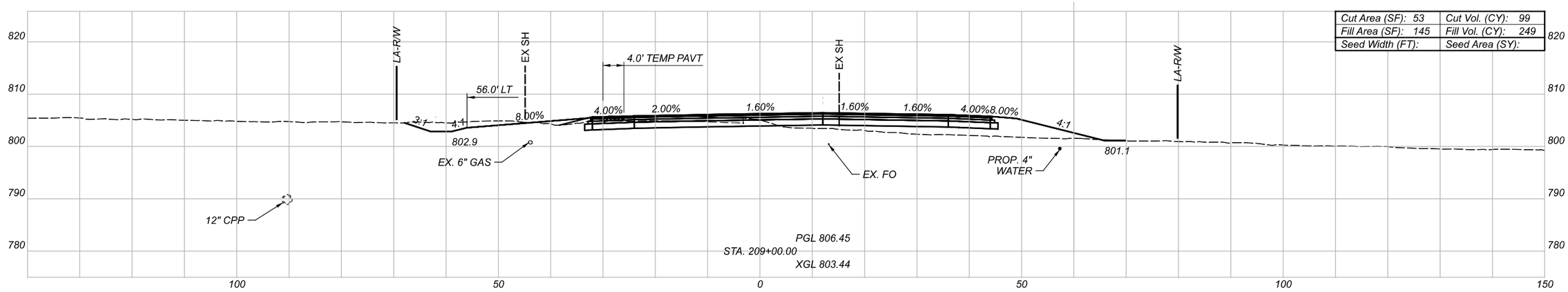
REVIEWER
RN 08/22/23

PROJECT ID
112121

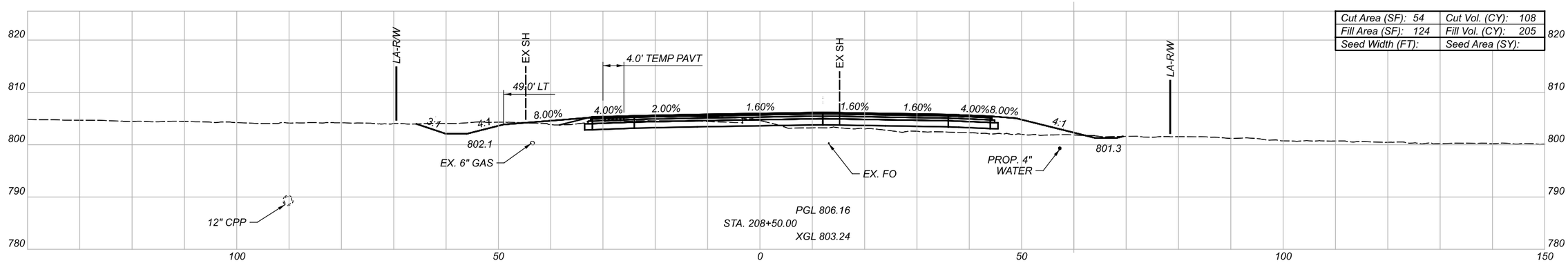
SHEET 216 TOTAL 436

WAR-63-0.83

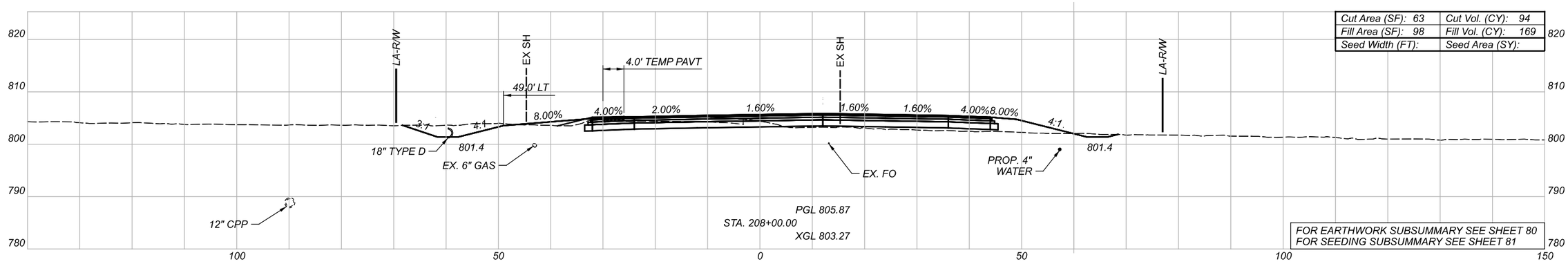
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pw:\\Project@WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn



Cut Area (SF): 53	Cut Vol. (CY): 99
Fill Area (SF): 145	Fill Vol. (CY): 249
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 54	Cut Vol. (CY): 108
Fill Area (SF): 124	Fill Vol. (CY): 205
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 63	Cut Vol. (CY): 94
Fill Area (SF): 98	Fill Vol. (CY): 169
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 208+00.00 TO STA. 209+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

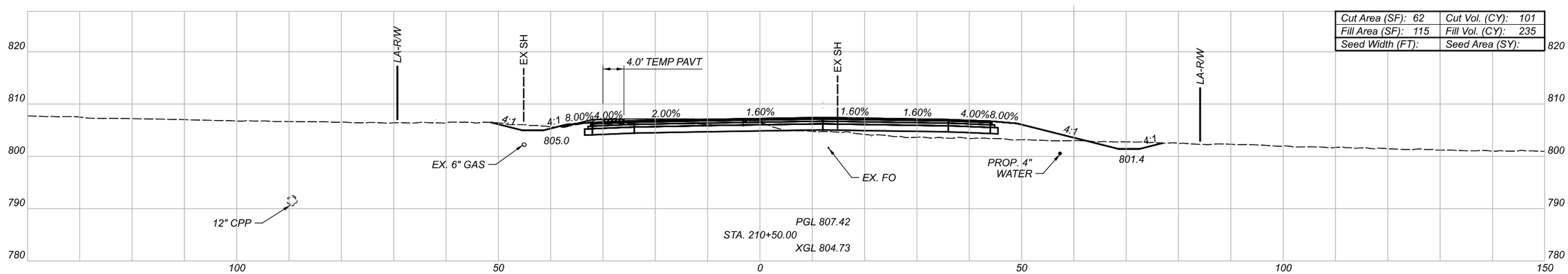
PROJECT ID
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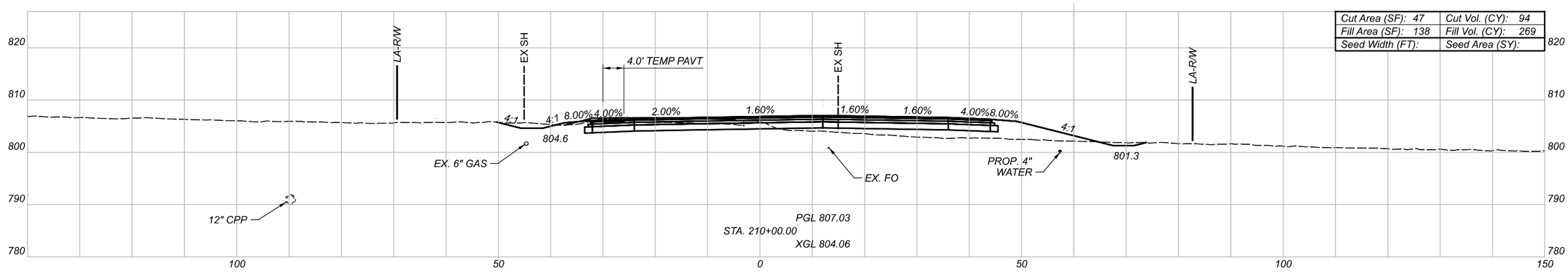
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Seeding	Cut	Fill
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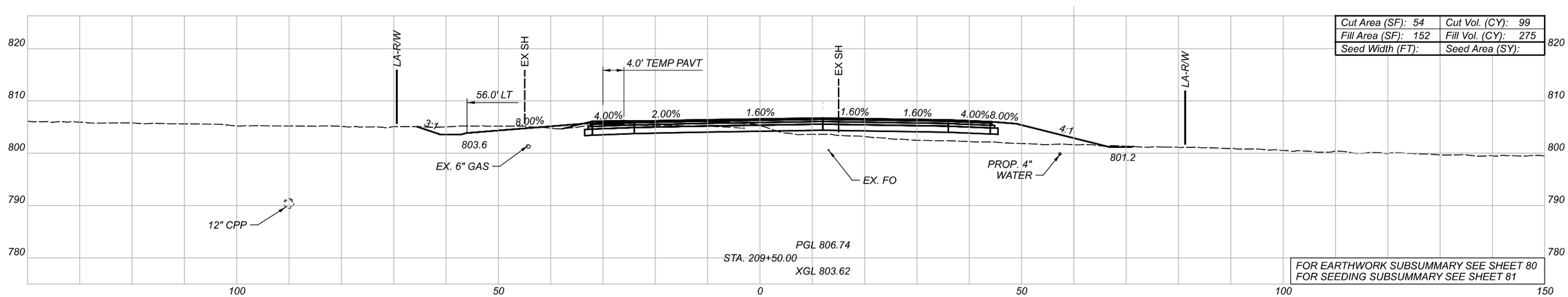
SHEET 217 TOTAL 436

WAR-63-0.83

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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn







CROSS SECTIONS - SR 63
STA. 209+50.00 TO STA. 210+50.00

WAR-63-0.83

MODEL: CLP_SR63 - 209+50.00 [Sheet1 PAPERSIZE: 17x11(in) DATE: 8/23/2023 TIME: 3:09:20 PM USER: Tahir.Sondo@Jacobs.com
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DESIGN AGENCY
JACOBS

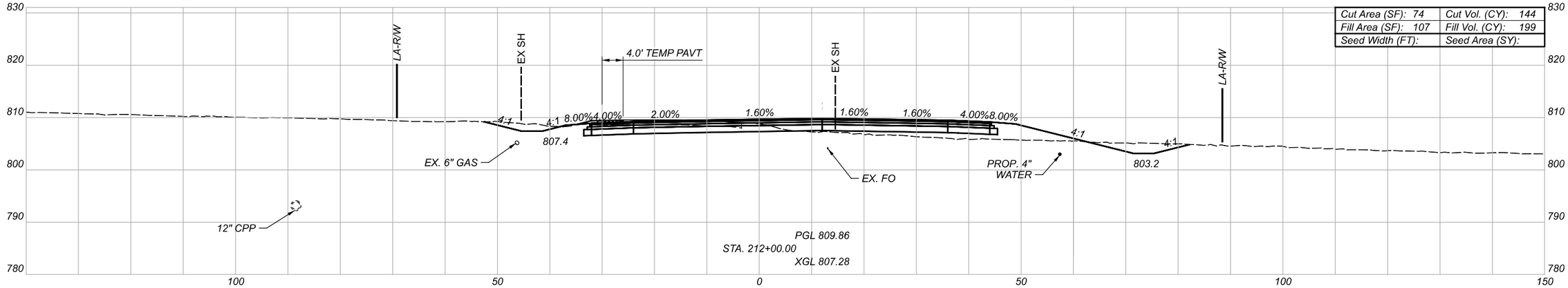
DESIGNER
JO

REVIEWER
RN 08/22/23

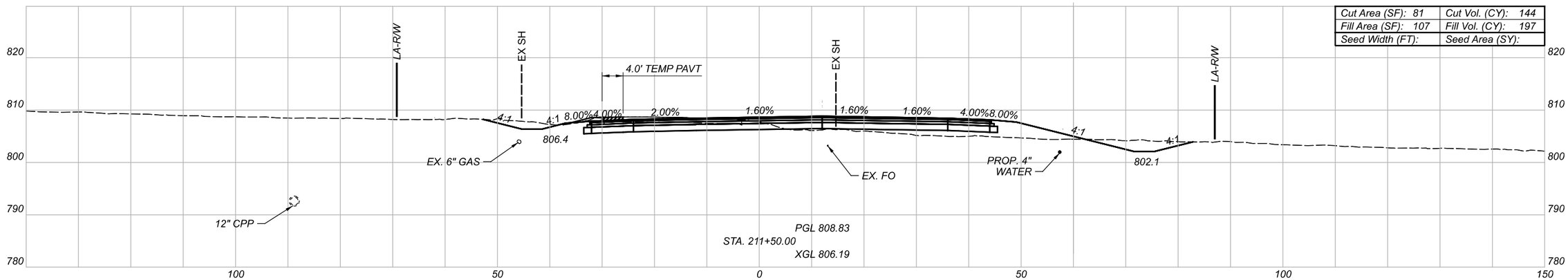
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

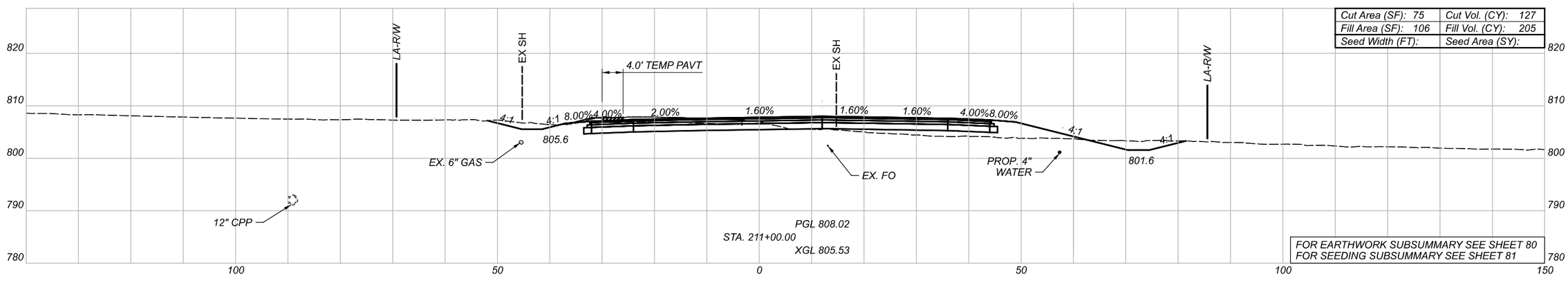
SHEET 218 TOTAL 436



Cut Area (SF): 74	Cut Vol. (CY): 144
Fill Area (SF): 107	Fill Vol. (CY): 199
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 81	Cut Vol. (CY): 144
Fill Area (SF): 107	Fill Vol. (CY): 197
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 75	Cut Vol. (CY): 127
Fill Area (SF): 106	Fill Vol. (CY): 205
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 211+00.00 TO STA. 212+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

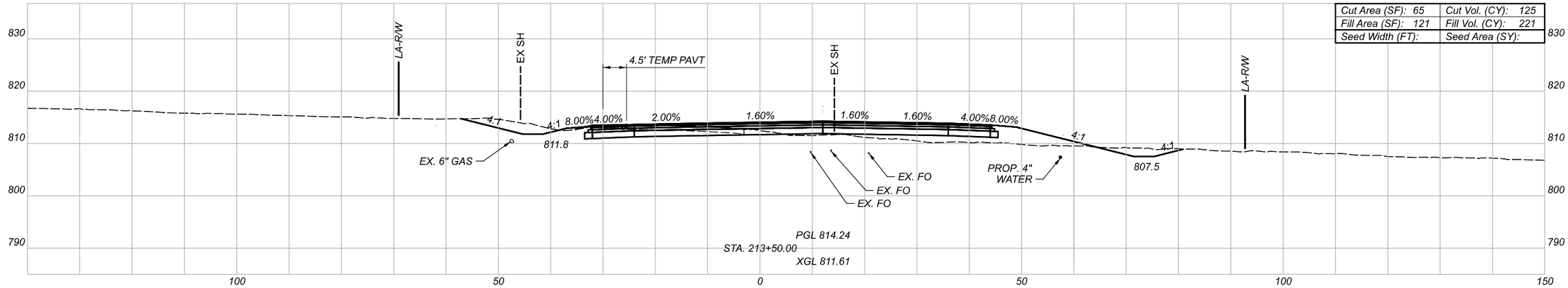
PROJECT ID
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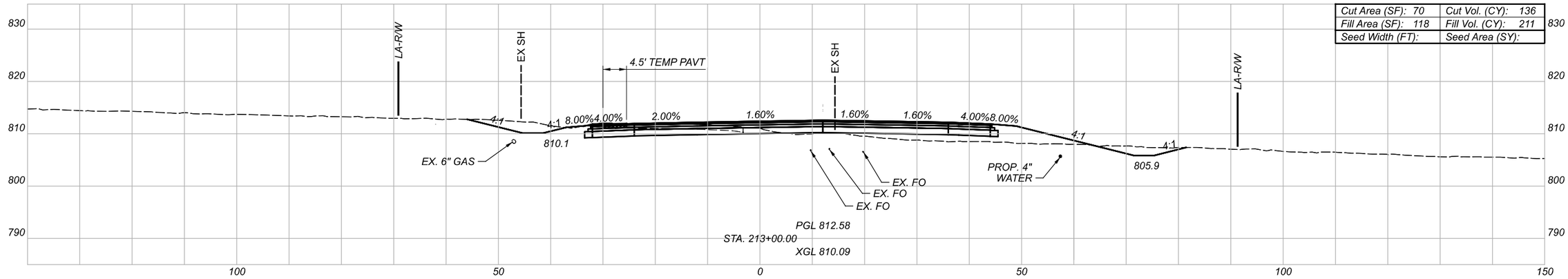
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Seeding	Cut	Fill
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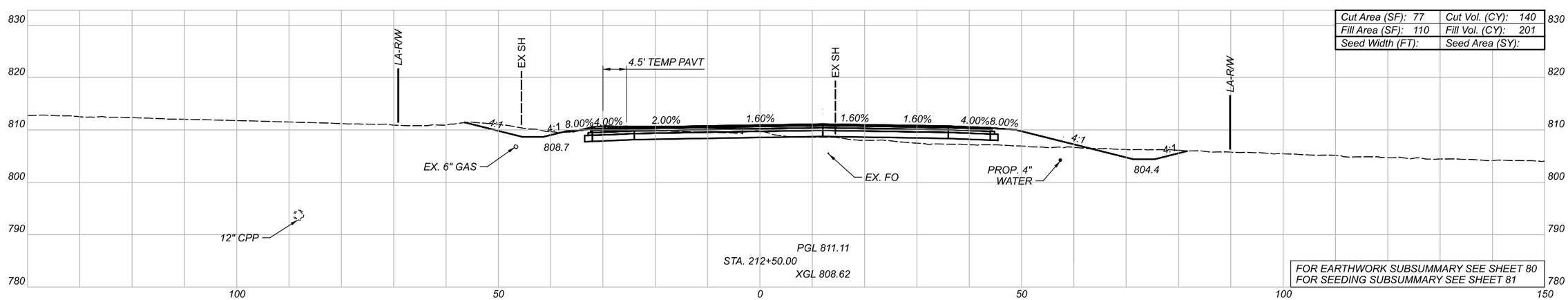
SHEET 219 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - 2lH+00.00 [Sheet] PAPERSIZE: 17x11in) DATE: 8/23/2023 TIME: 3:09:59 PM USER: Tahir.Sondo@Jacobs.com
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FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 212+50.00 TO STA. 213+50.00

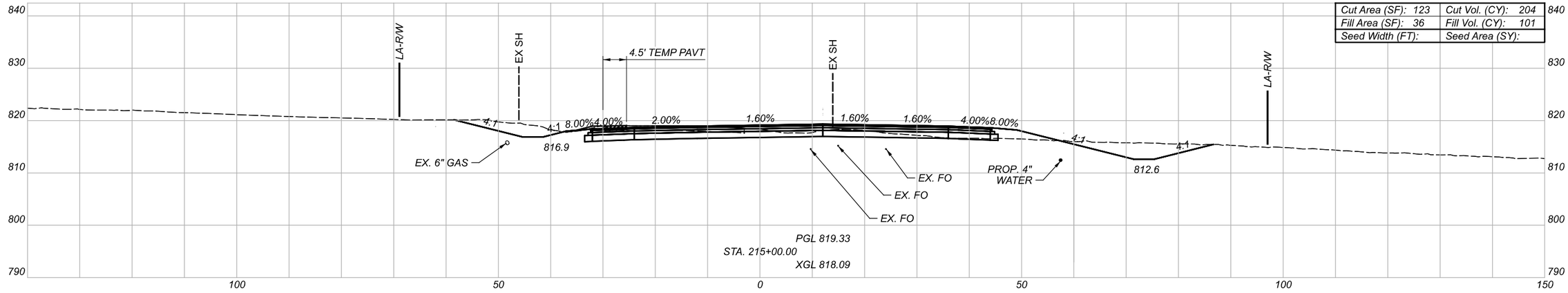
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Seeding	Cut	Fill
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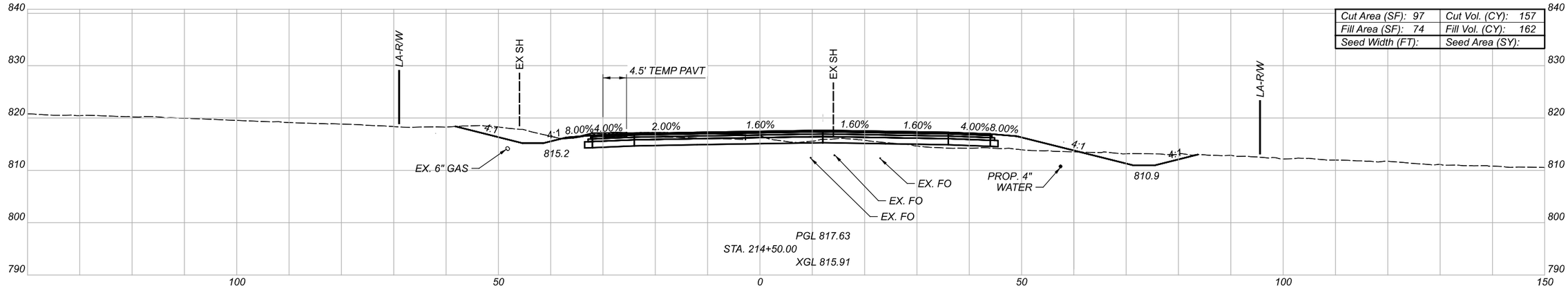
DESIGN AGENCY
JACOBS

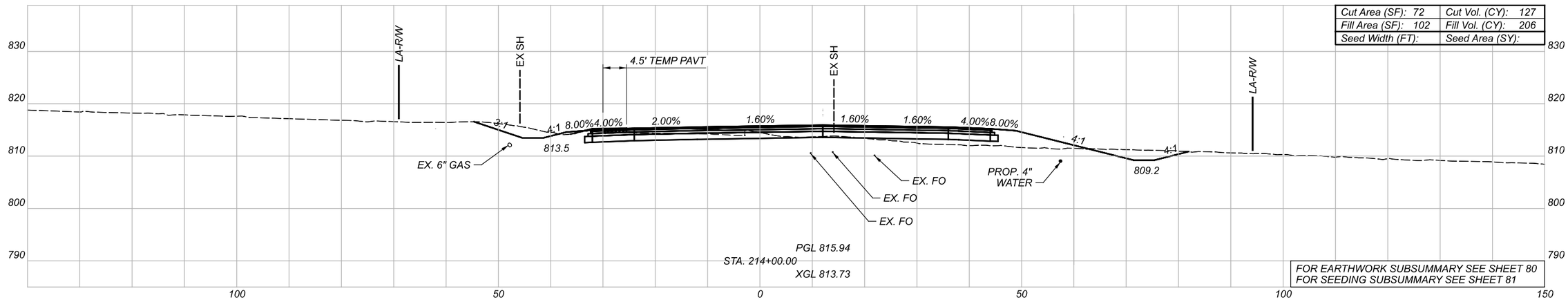
DESIGNER JO
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 220 TOTAL 436

WAR-63-0.83

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CROSS SECTIONS - SR 63
STA. 214+00.00 TO STA. 215+00.00

WAR-63-0.83

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DESIGN AGENCY
JACOBS

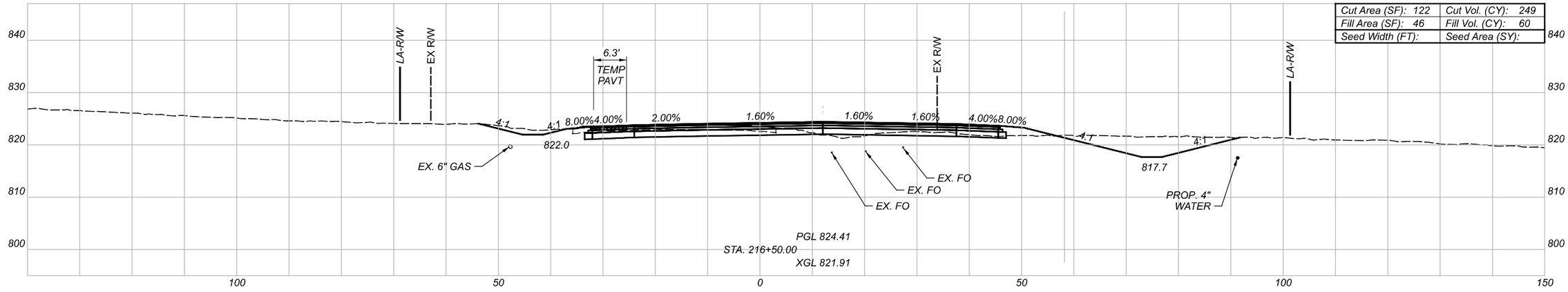
DESIGNER
JO

REVIEWER
RN 08/22/23

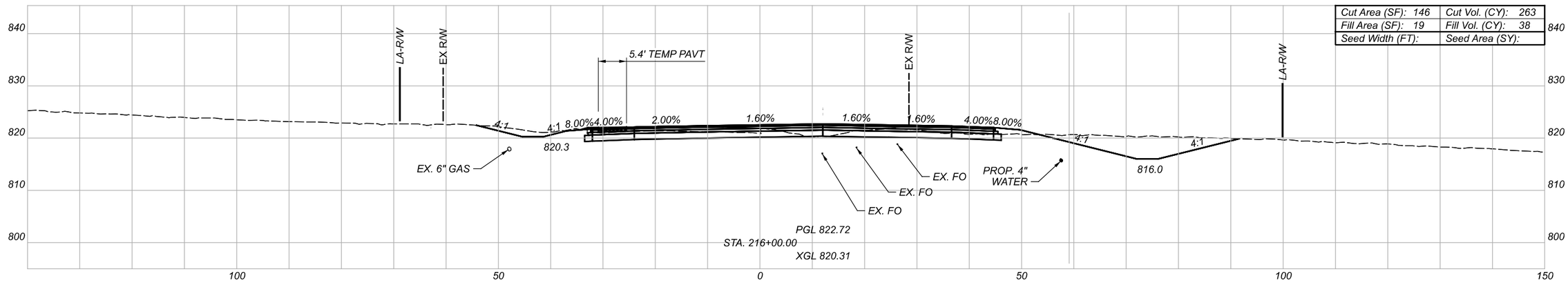
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
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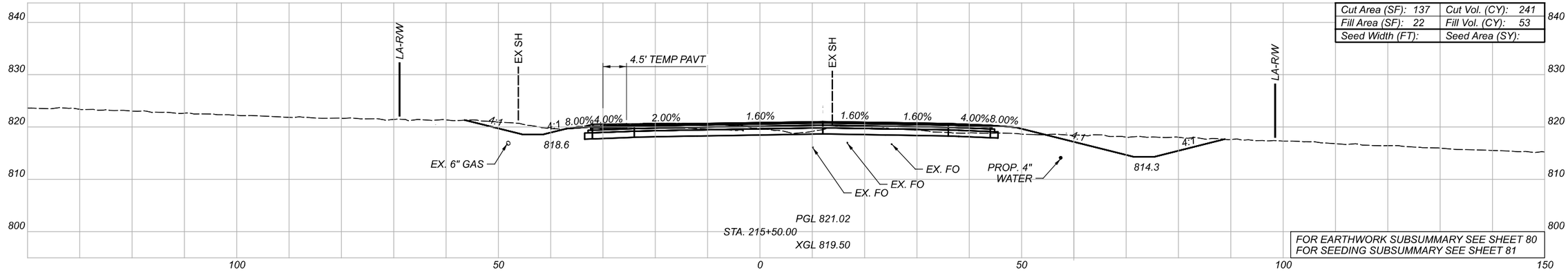
SHEET 221 TOTAL 436



Cut Area (SF): 122	Cut Vol. (CY): 249
Fill Area (SF): 46	Fill Vol. (CY): 60
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 146	Cut Vol. (CY): 263
Fill Area (SF): 19	Fill Vol. (CY): 38
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 137	Cut Vol. (CY): 241
Fill Area (SF): 22	Fill Vol. (CY): 53
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 215+50.00 TO STA. 216+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

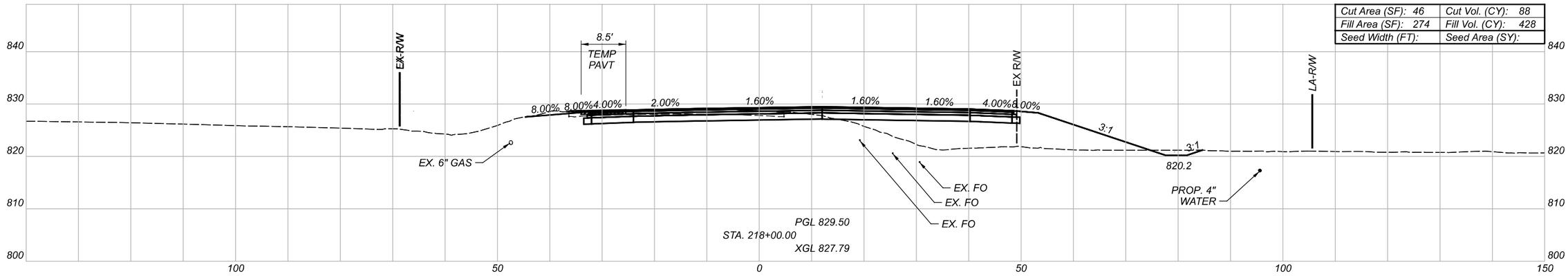
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

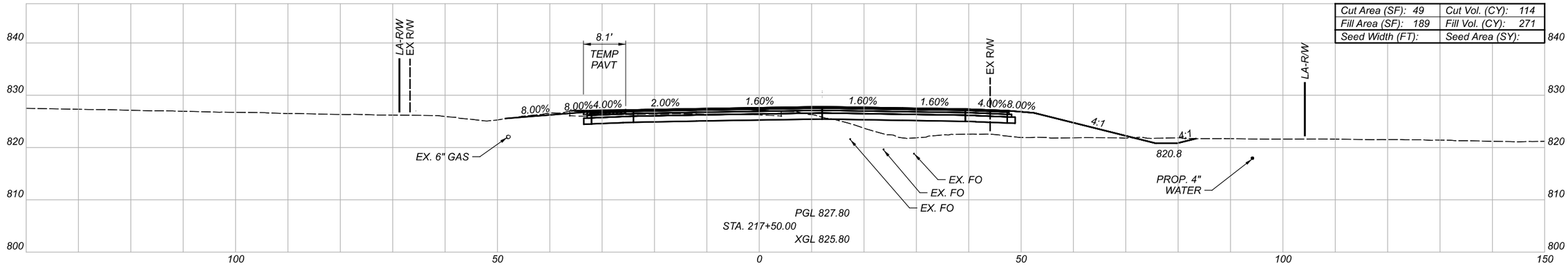
SHEET 222 TOTAL 436

WAR-63-0.83

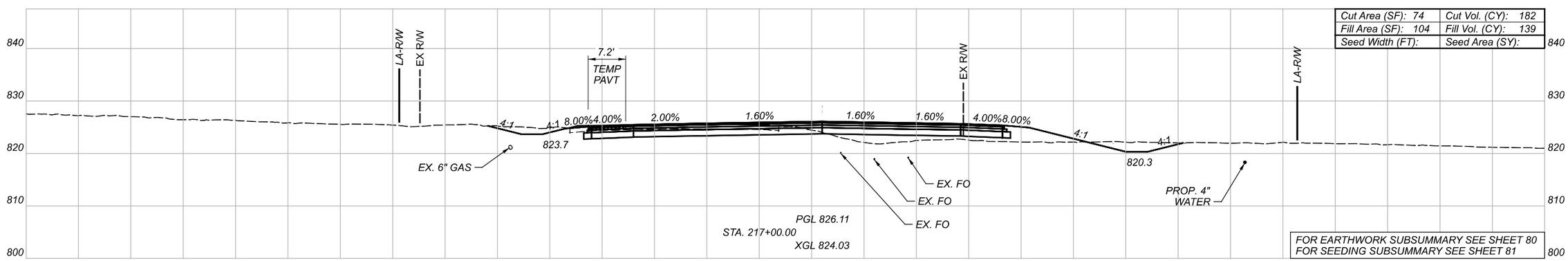
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn



Cut Area (SF): 46	Cut Vol. (CY): 88
Fill Area (SF): 274	Fill Vol. (CY): 428
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 49	Cut Vol. (CY): 114
Fill Area (SF): 189	Fill Vol. (CY): 271
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 74	Cut Vol. (CY): 182
Fill Area (SF): 104	Fill Vol. (CY): 139
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 217+00.00 TO STA. 218+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

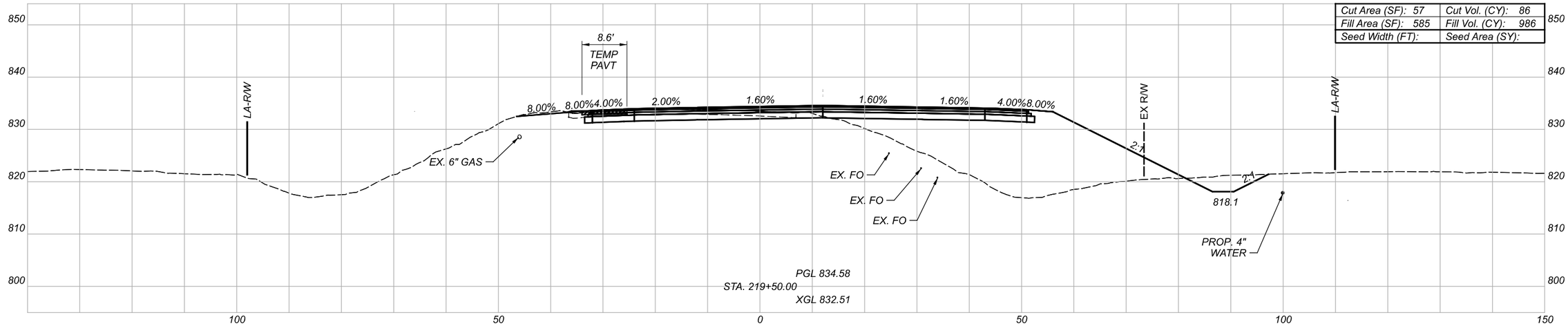
PROJECT ID
112121

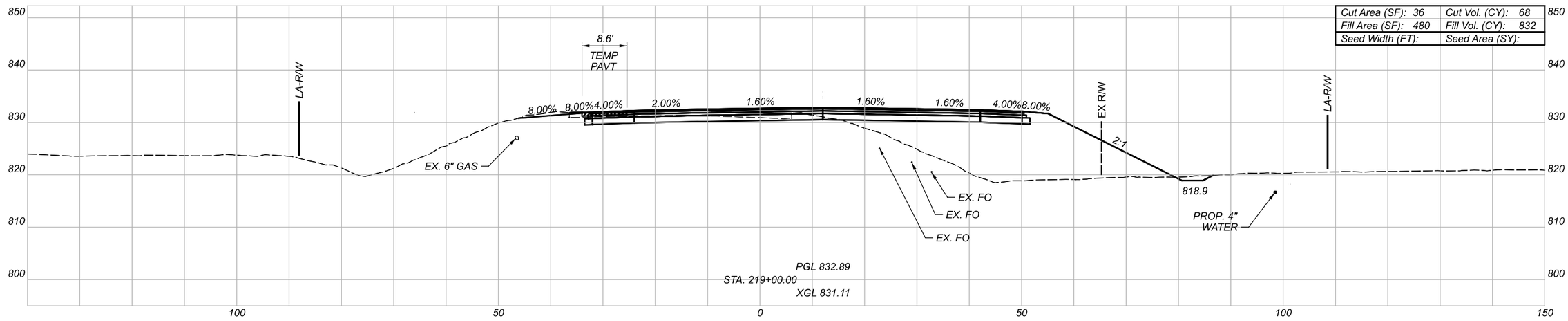
Sheet Totals		
Seeding	Cut	Fill
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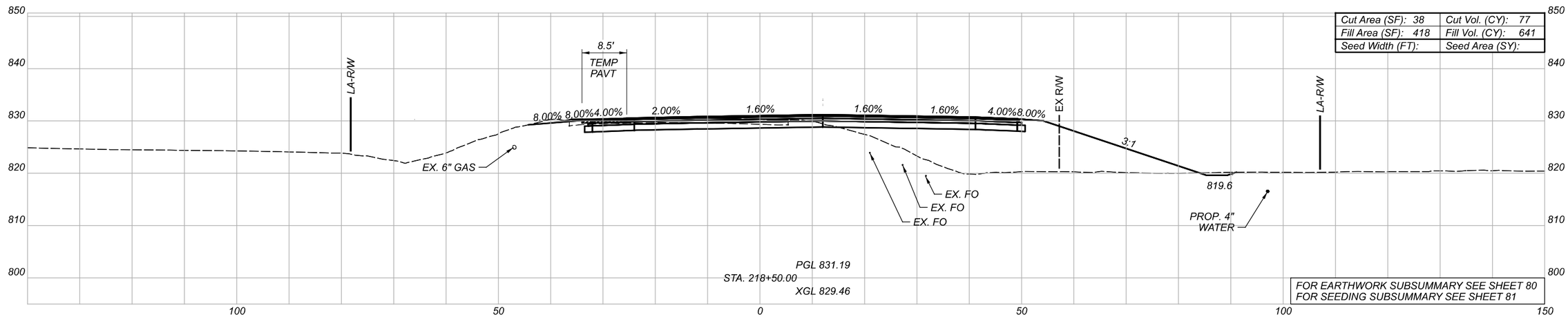
SHEET 223 TOTAL 436

WAR-63-0.83

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CROSS SECTIONS - SR 63
STA. 218+50.00 TO STA. 219+50.00

WAR-63-0.83

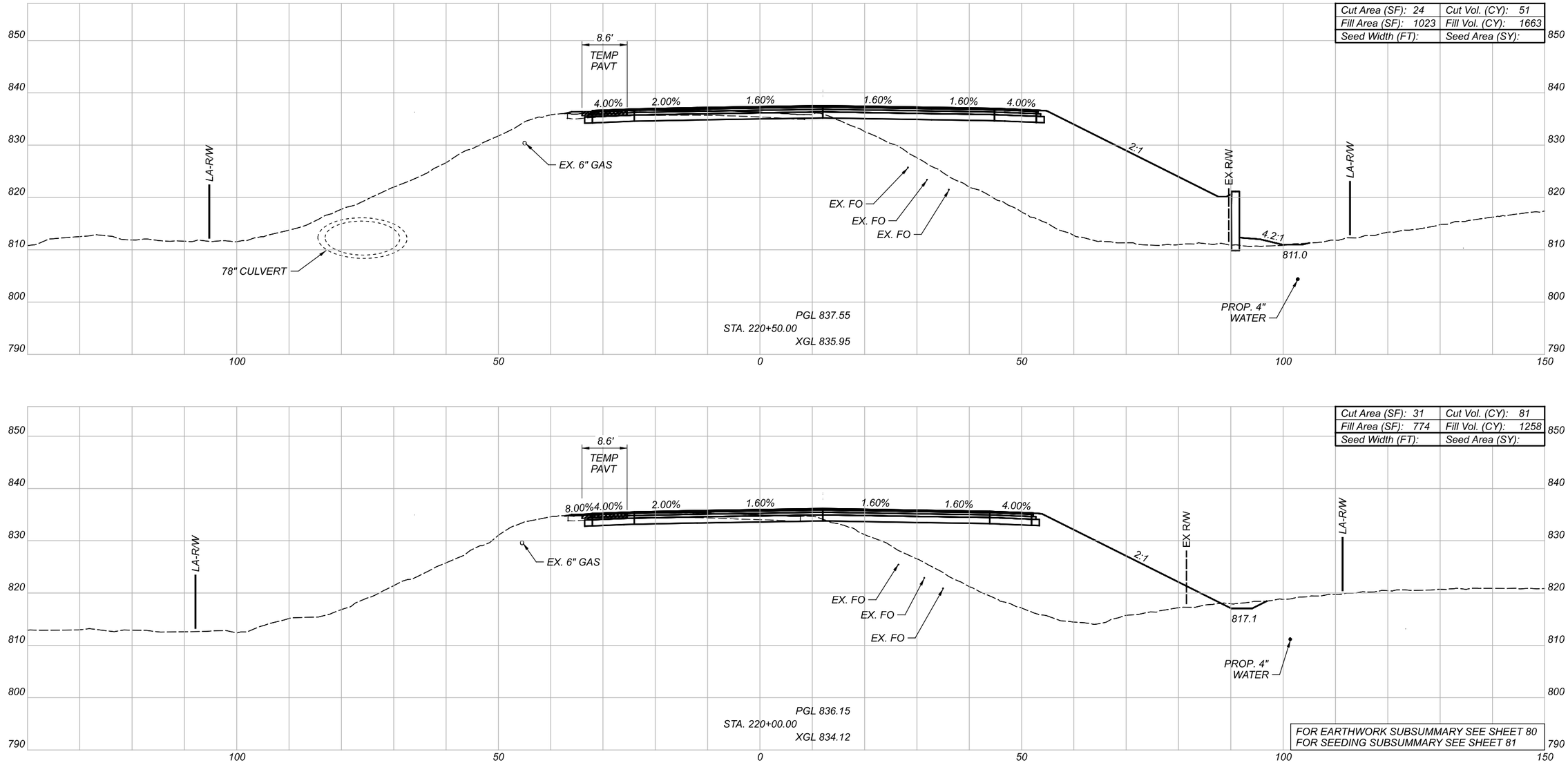
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DESIGN AGENCY
JACOBS

DESIGNER	JO
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	224
TOTAL	436

Sheet Totals

Seeding	Cut	Fill
-	-	-



CROSS SECTIONS - SR 63
STA. 220+00.00 TO STA. 220+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

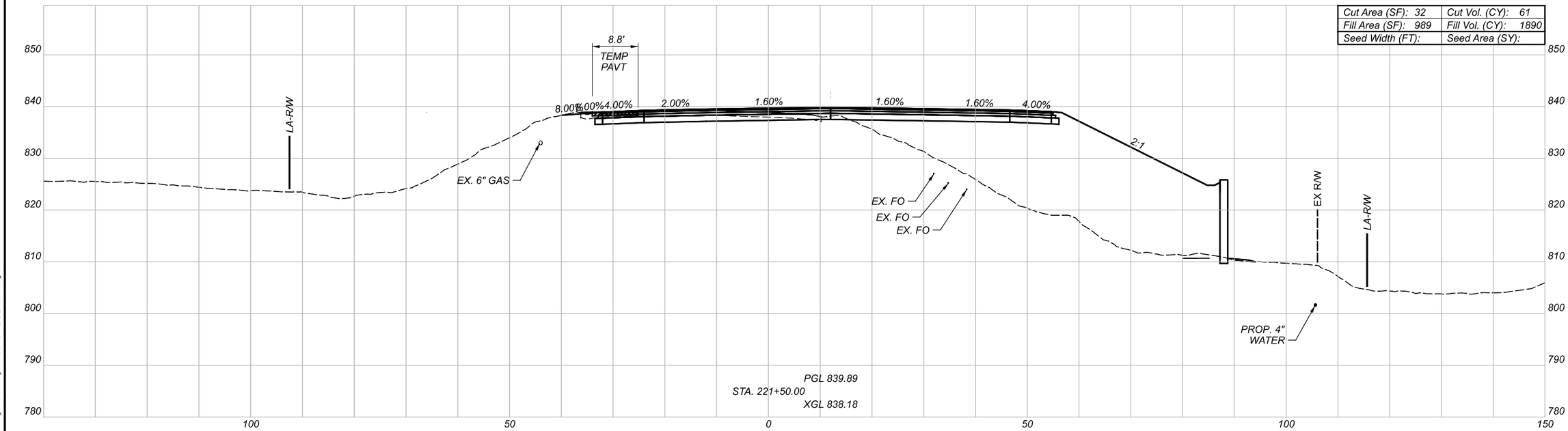
PROJECT ID
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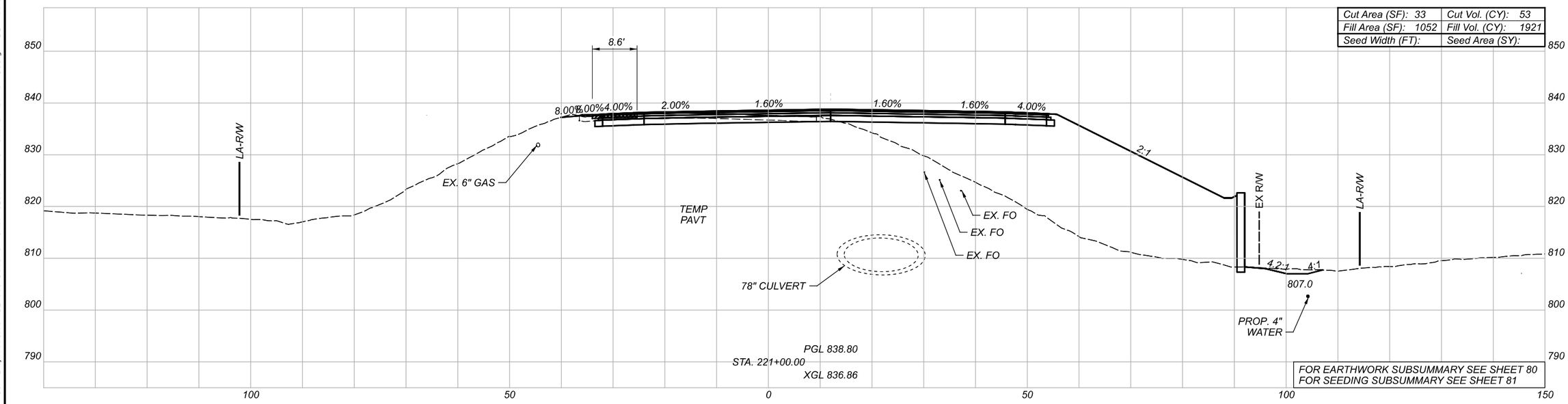
Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET 225 TOTAL 436

WAR-63-0.83

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CROSS SECTIONS - SR 63
STA. 221+00.00 TO STA. 221+50.00

WAR-63-0.83

MODEL: CLP_SR63 - 22I+00.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 3:44:4 PM USER: Tahir.Sondo@Jacobs.com
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DESIGN AGENCY
JACOBS

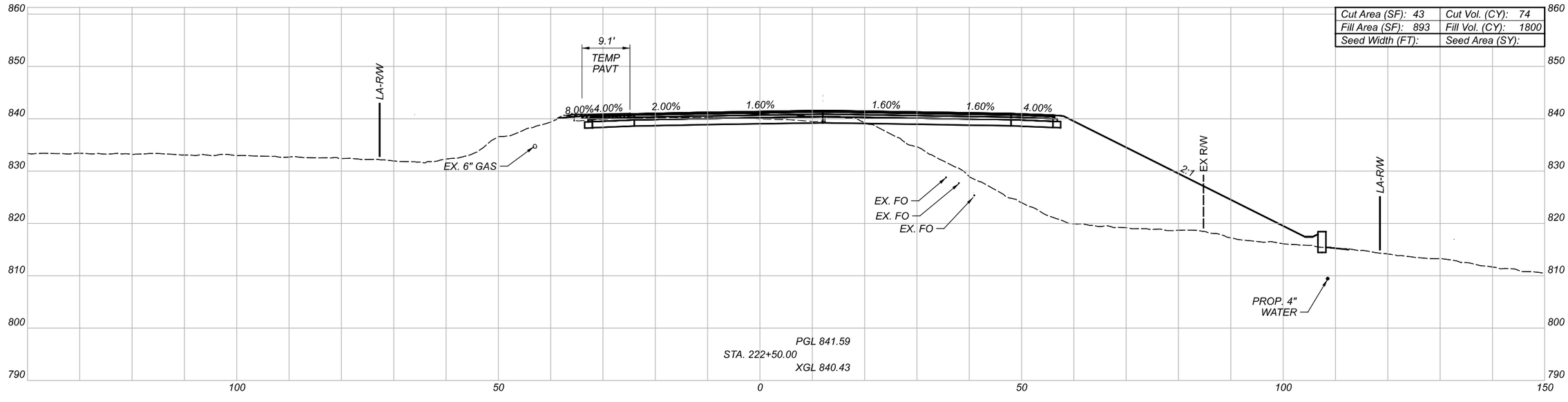
DESIGNER
JO

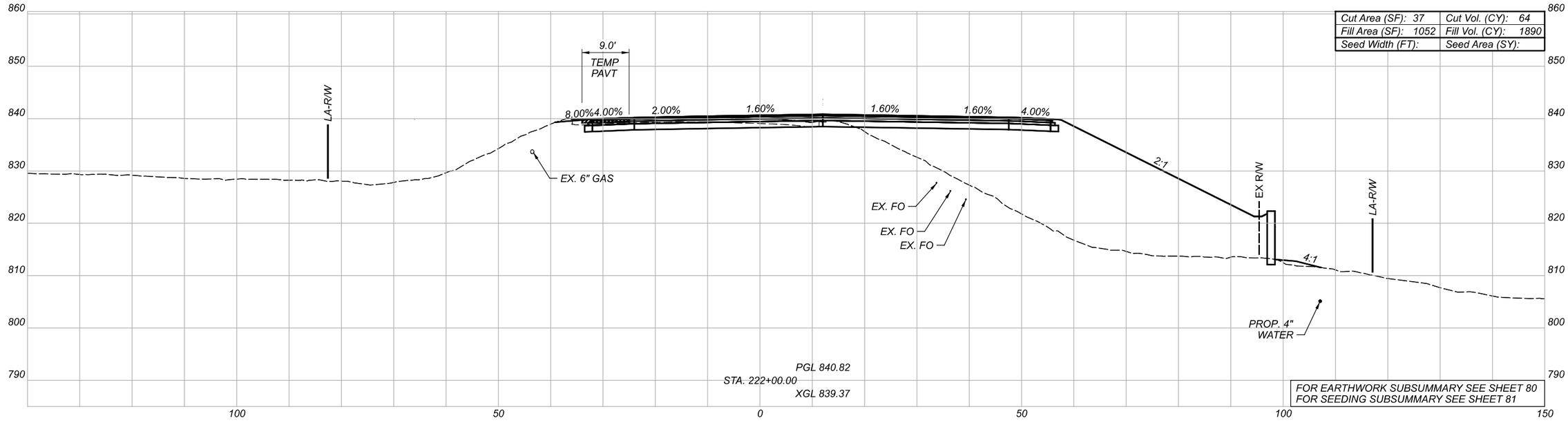
REVIEWER
RN 08/22/23

PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET 226 TOTAL 436





CROSS SECTIONS - SR 63
STA. 222+00.00 TO STA. 222+50.00

WAR-63-0.83

MODEL: CLP_SR63 - 222+00.00 (Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 3:44:42 PM USER: Tahir.Sondo@jacobs.com
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Sheet Totals		
Seeding	Cut	Fill
-	-	-

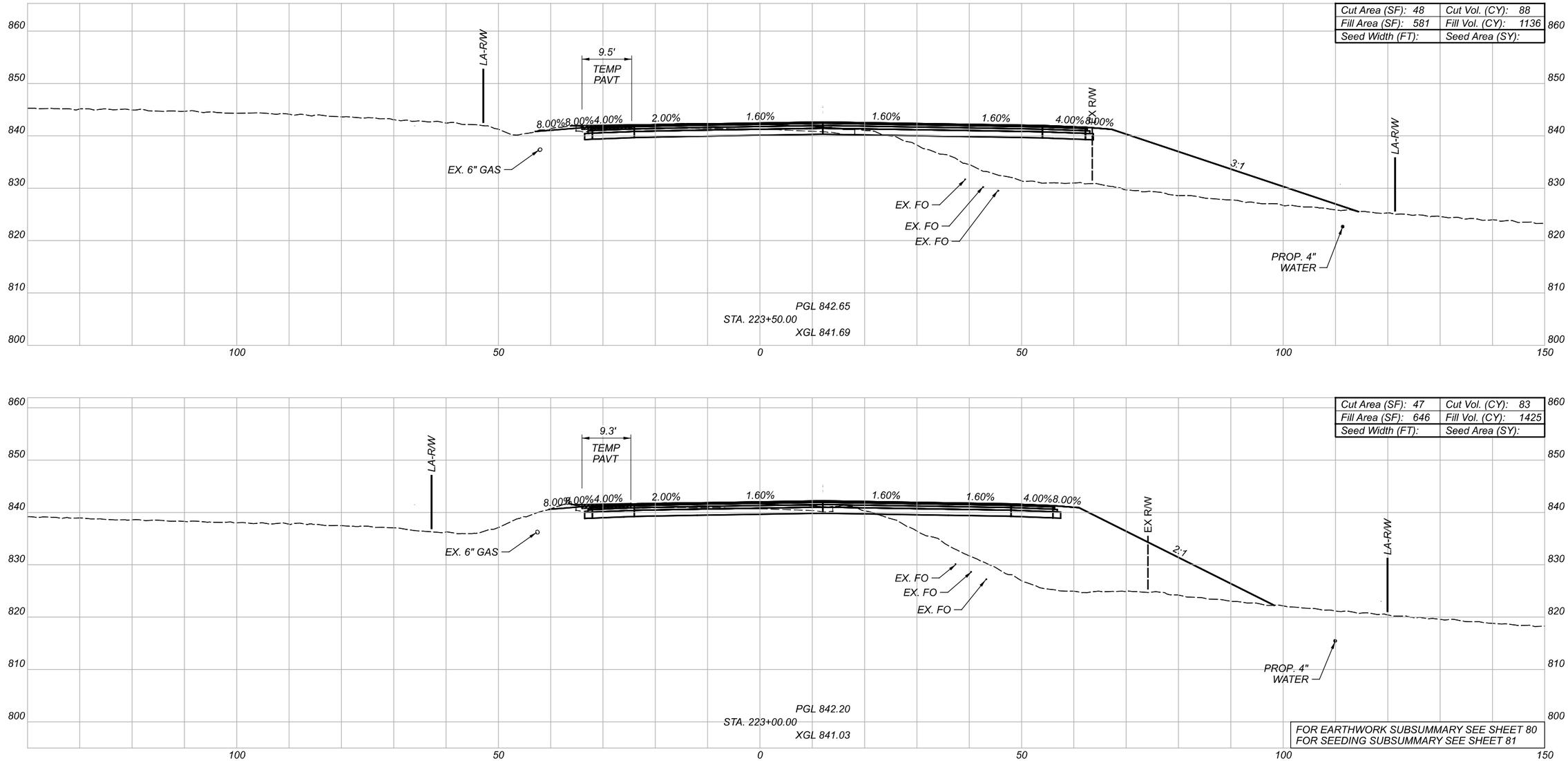
DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 227 | TOTAL 436



CROSS SECTIONS - SR 63
STA. 223+00.00 TO STA. 223+50.00

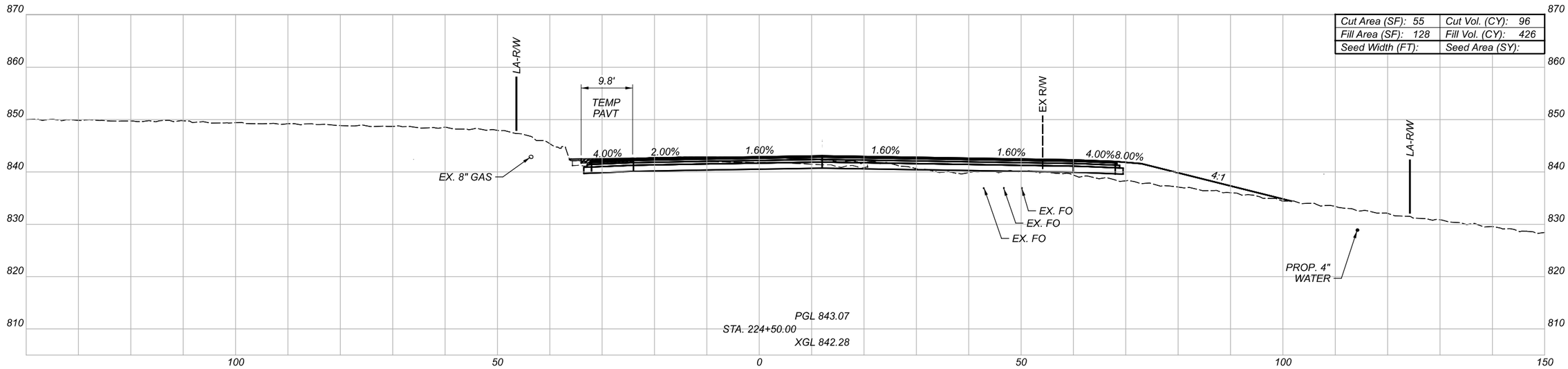
DESIGN AGENCY
JACOBS

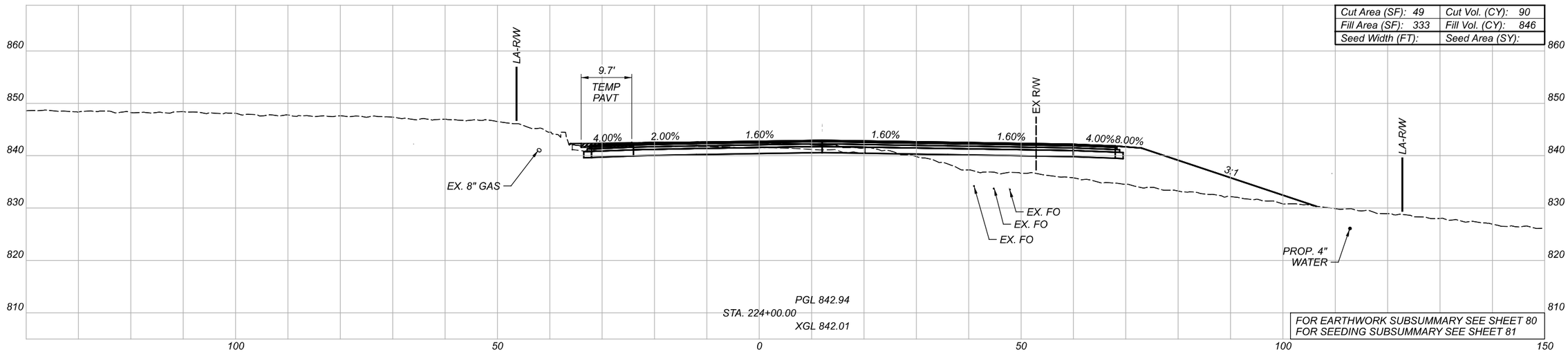
DESIGNER	REVIEWER	PROJECT ID
JO	RN 08/22/23	112121

Sheet Totals			SHEET	TOTAL
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WAR-63-0.83

MODEL: CLP_SR63 - 223+00.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 3:58:10 PM USER: Tahir.Sondo@jacobs.com
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CROSS SECTIONS - SR 63
STA. 224+00.00 TO STA. 224+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

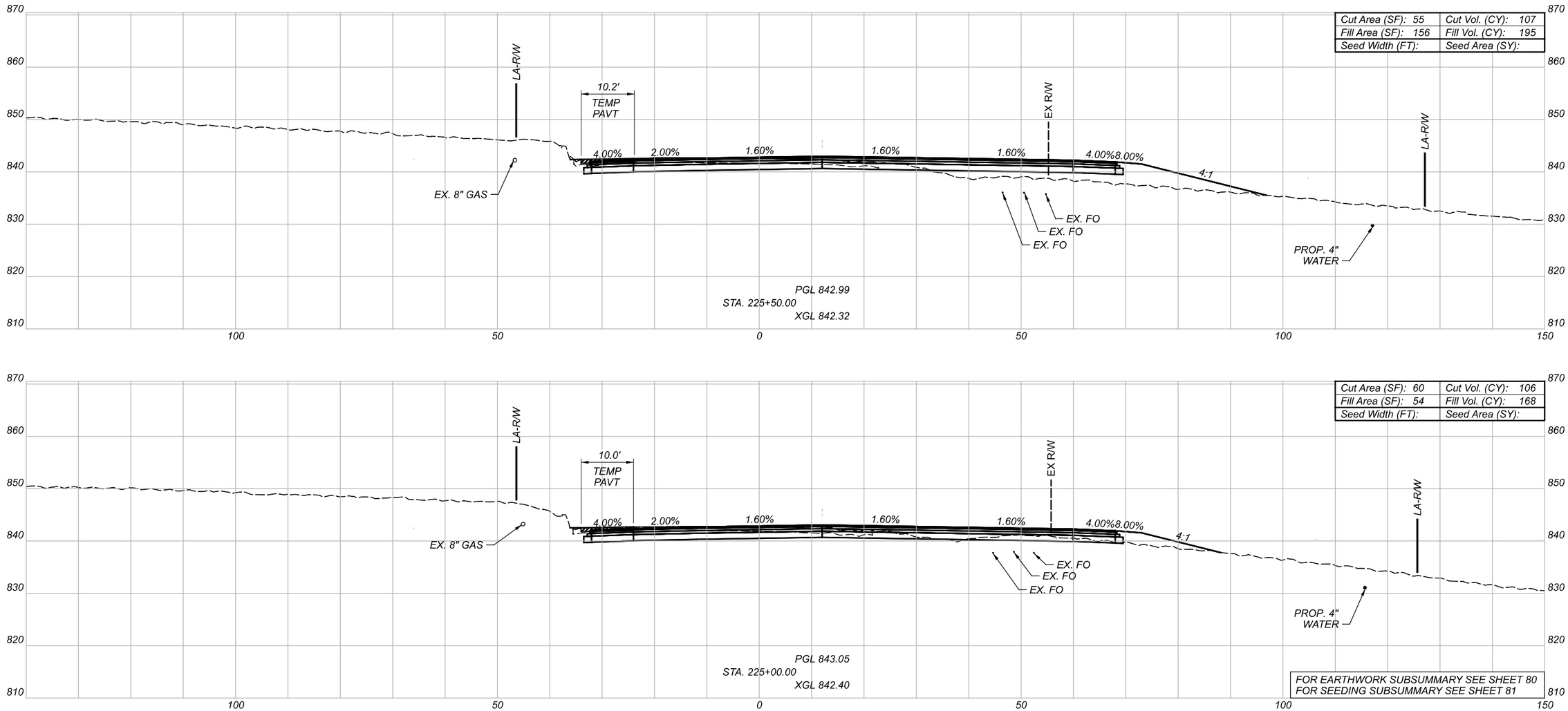
PROJECT ID
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SHEET 229 TOTAL 436

WAR-63-0.83

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CROSS SECTIONS - SR 63
STA. 225+00.00 TO STA. 225+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

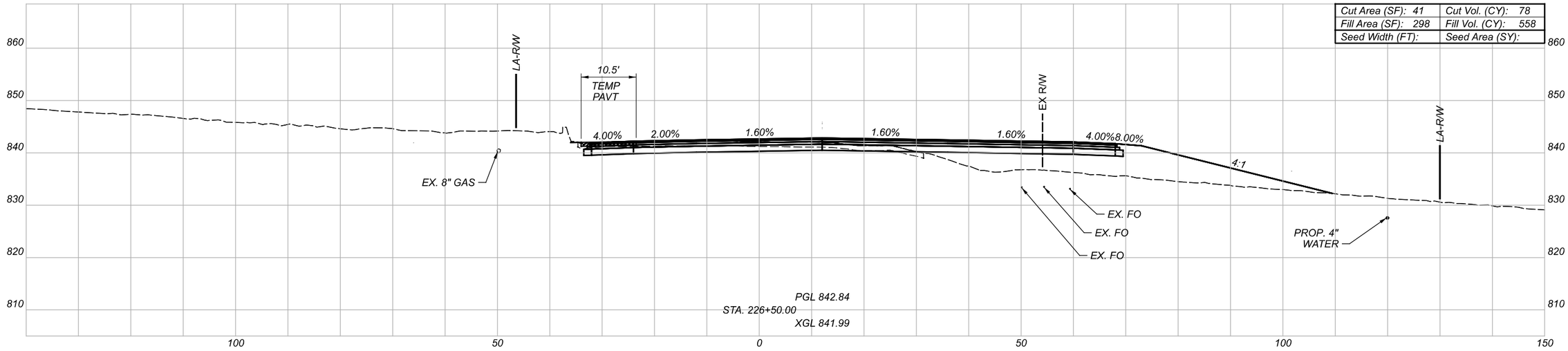
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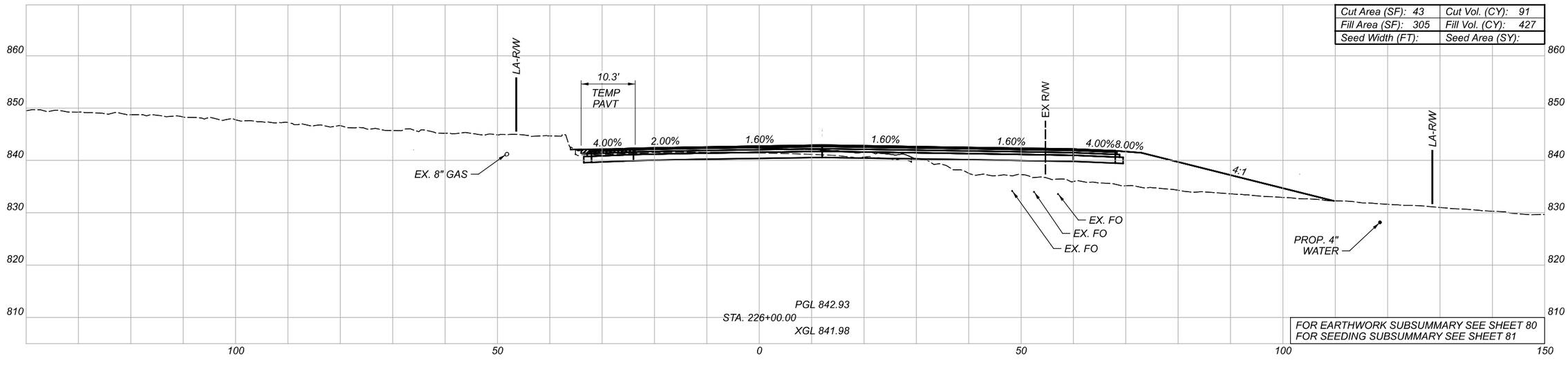
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SHEET 230 TOTAL 436

WAR-63-0.83

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FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 226+00.00 TO STA. 226+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
JACOBS

DESIGNER
JO

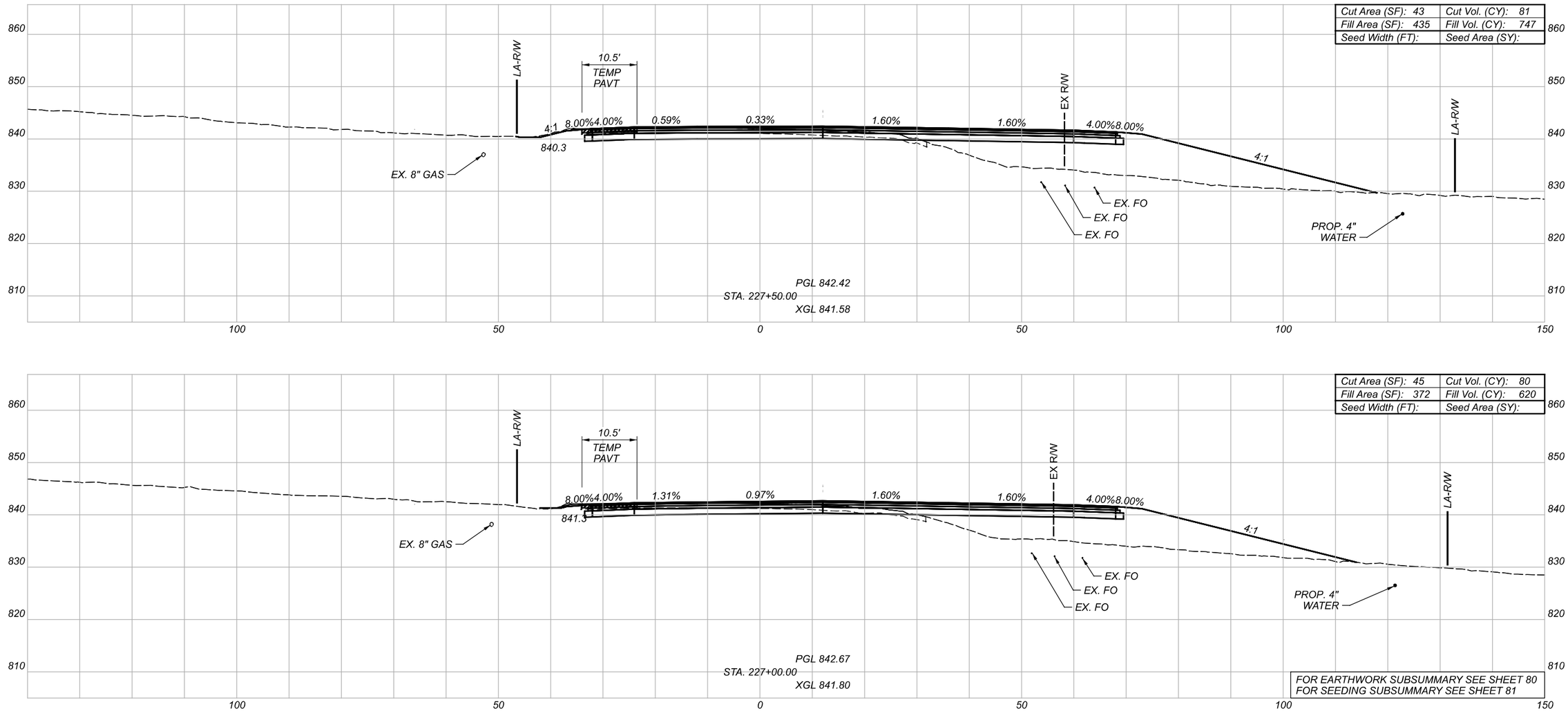
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 231 TOTAL 436

WAR-63-0.83

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FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 227+00.00 TO STA. 227+50.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

PROJECT ID
112121

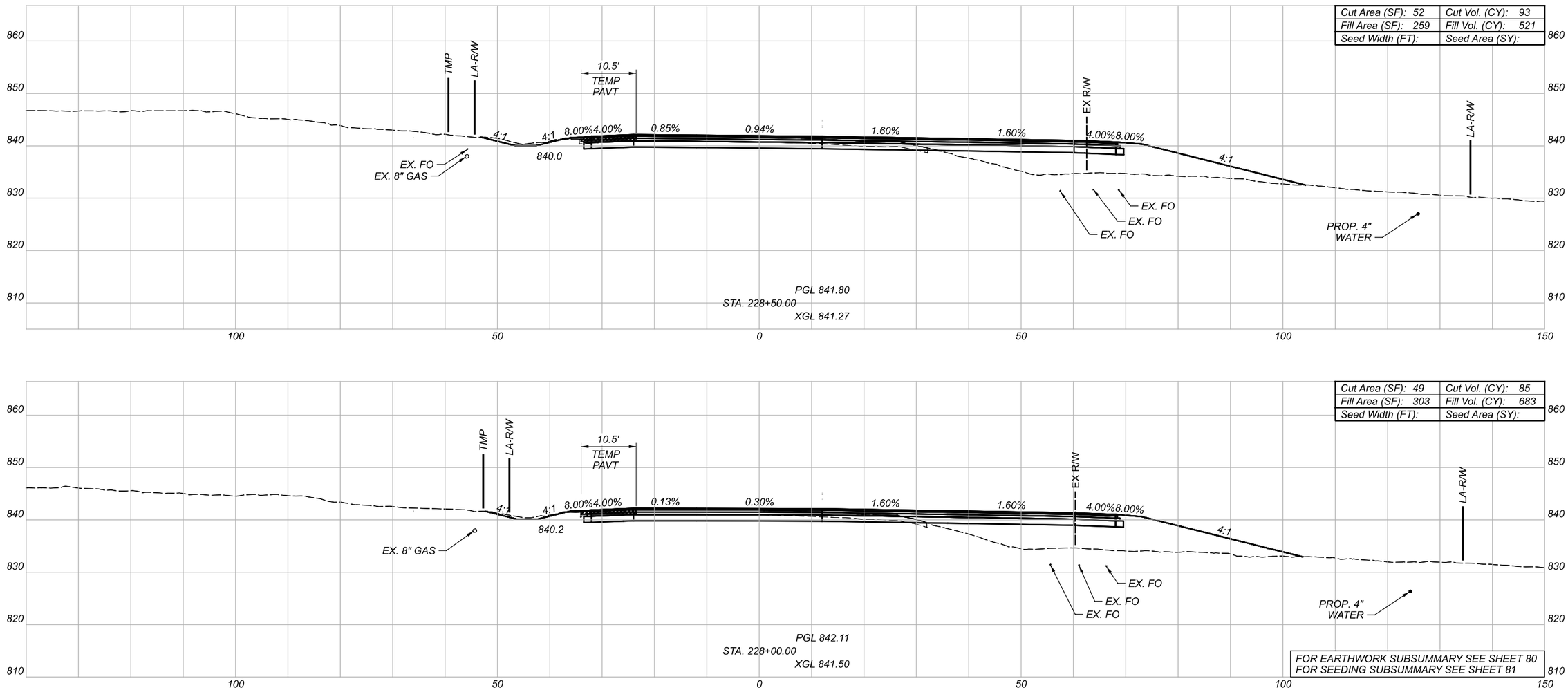
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WAR-63-0.83



FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 228+00.00 TO STA. 228+50.00

DESIGN AGENCY
JACOBS

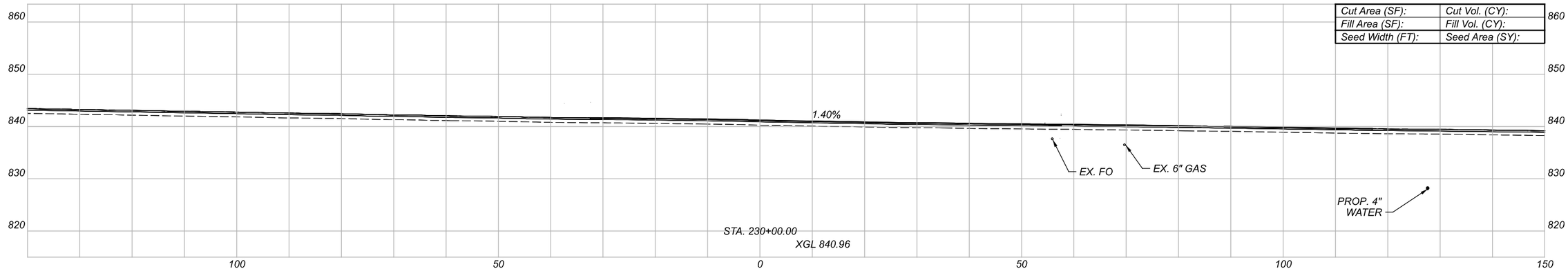
DESIGNER
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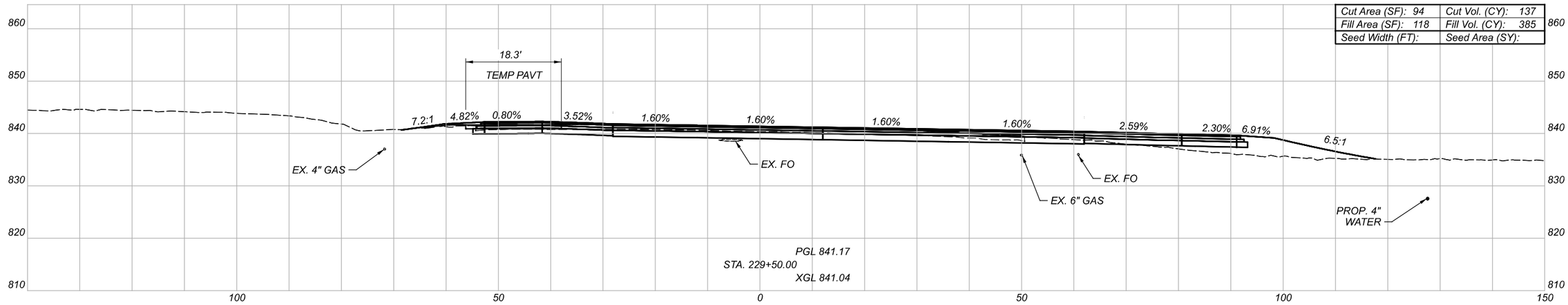
REVIEWER
RN 08/22/23

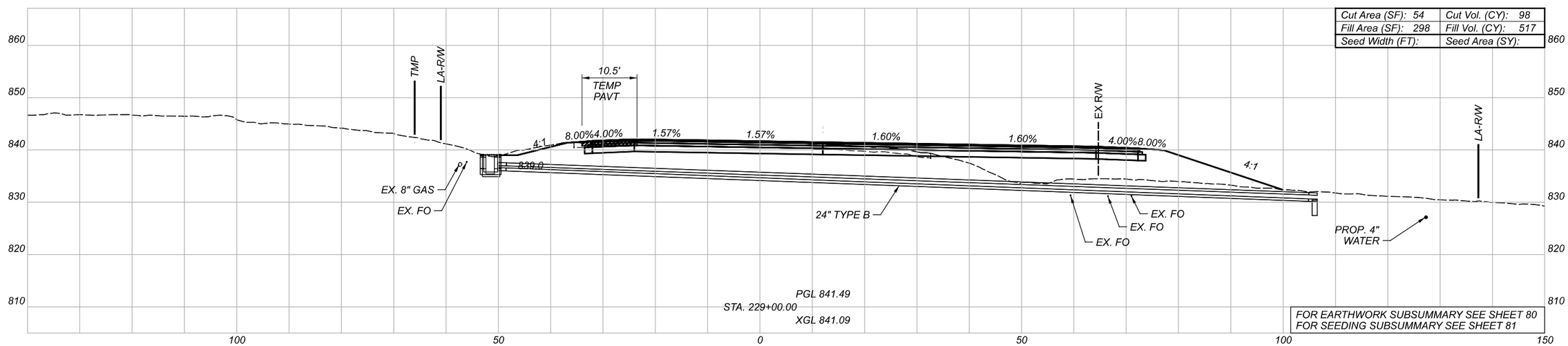
PROJECT ID
112121

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SHEET 233 TOTAL 436







CROSS SECTIONS - SR 63
STA. 229+00.00 TO STA. 230+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

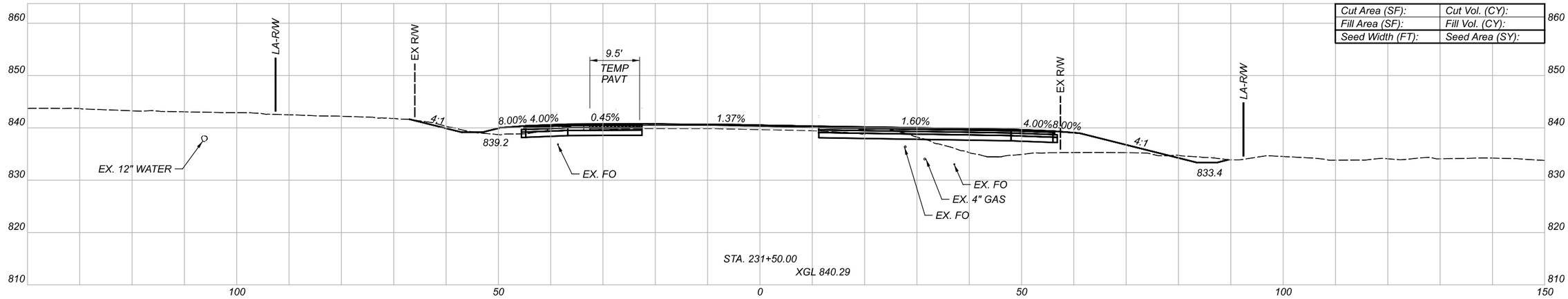
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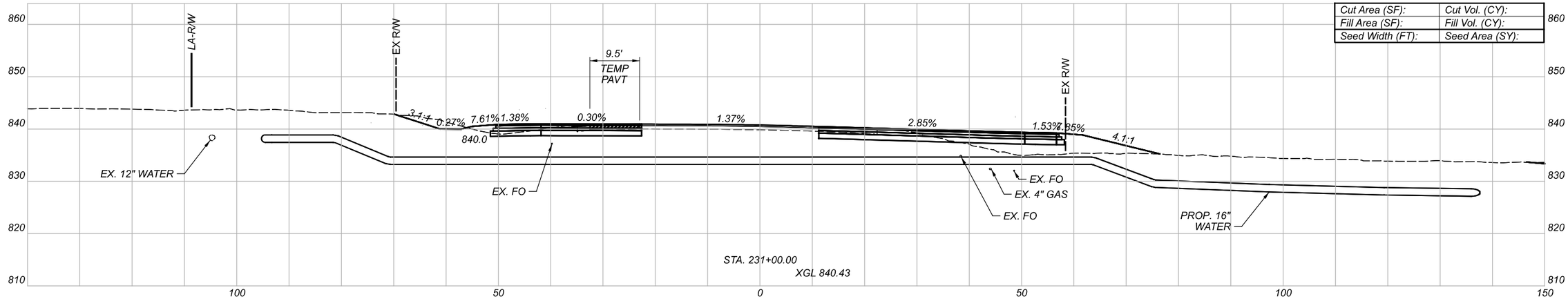
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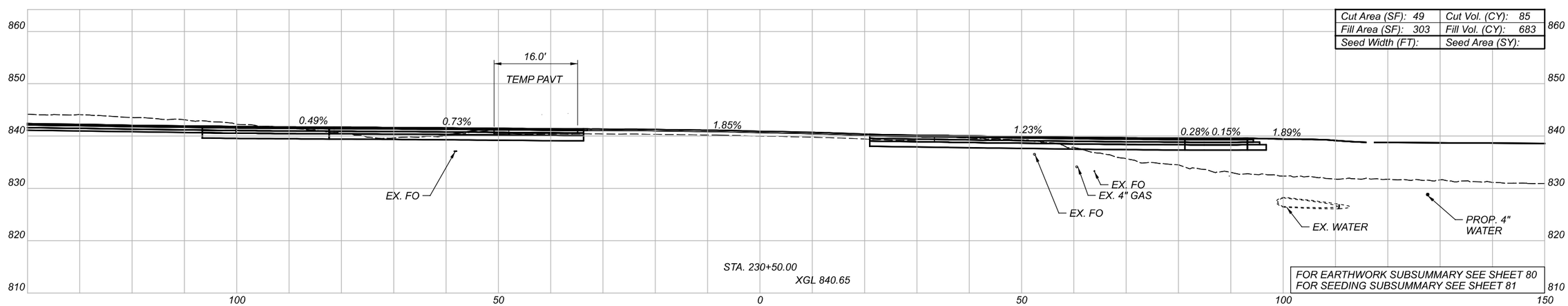
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WAR-63-0.83

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CROSS SECTIONS - SR 63
STA. 230+50.00 TO STA. 231+50.00

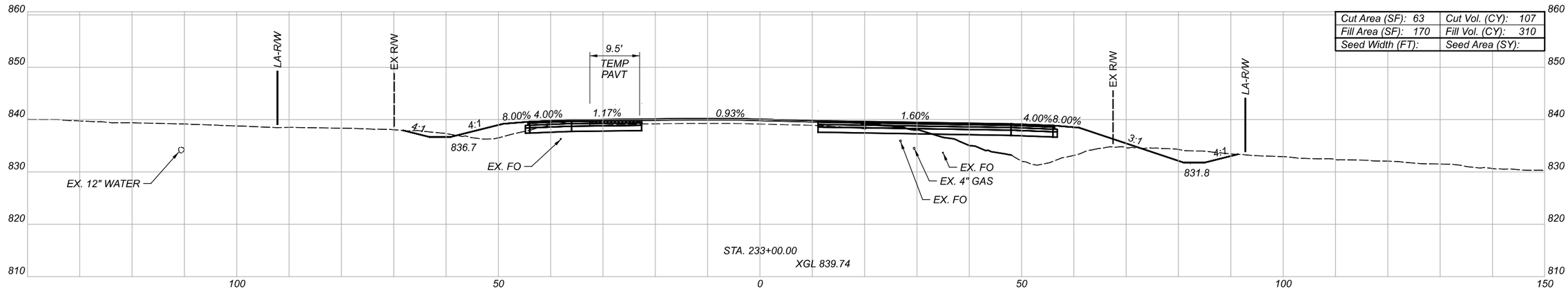
DESIGN AGENCY
JACOBS

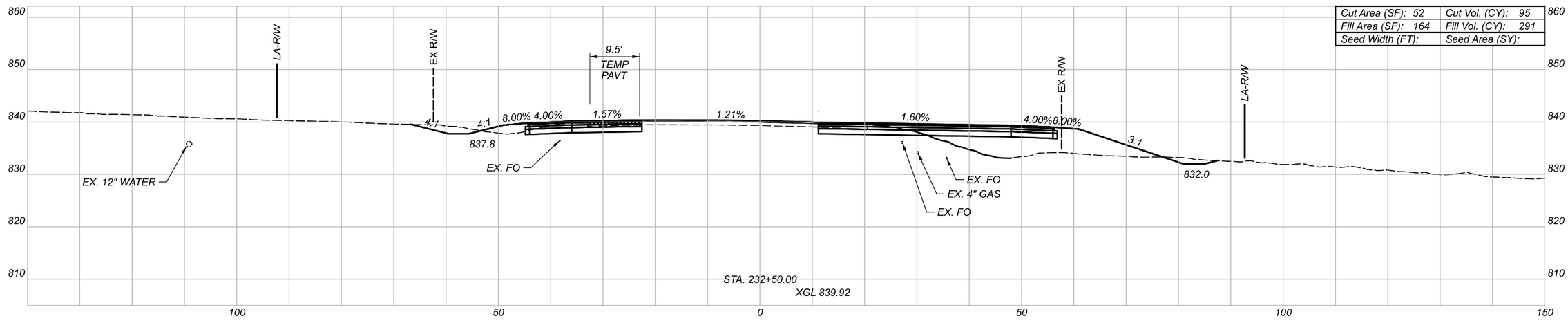
DESIGNER	JO
REVIEWER	RN 08/22/23
PROJECT ID	112121

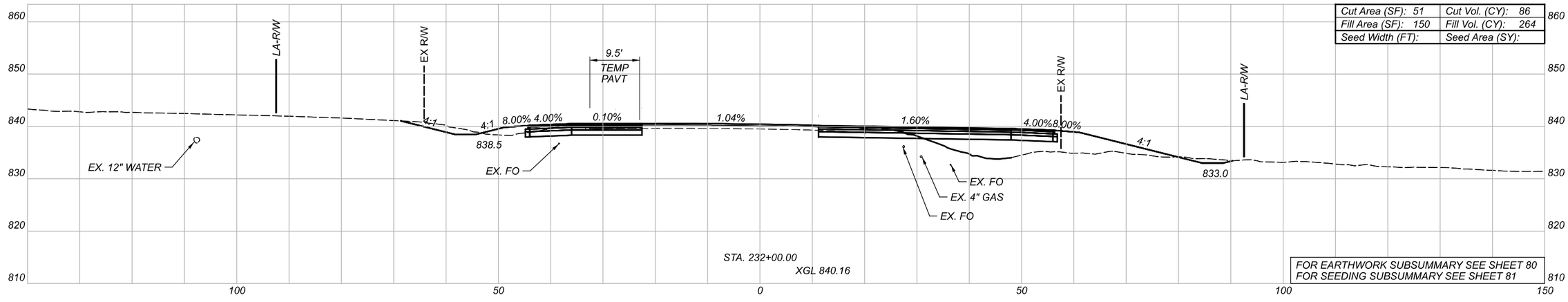
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WAR-63-0.83

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CROSS SECTIONS - SR 63
STA. 232+00.00 TO STA. 233+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

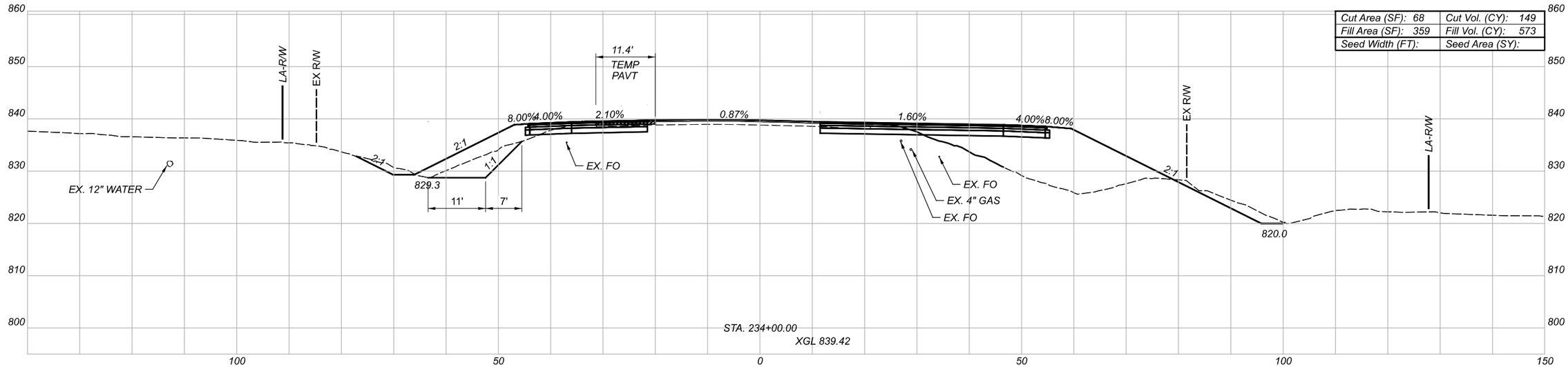
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
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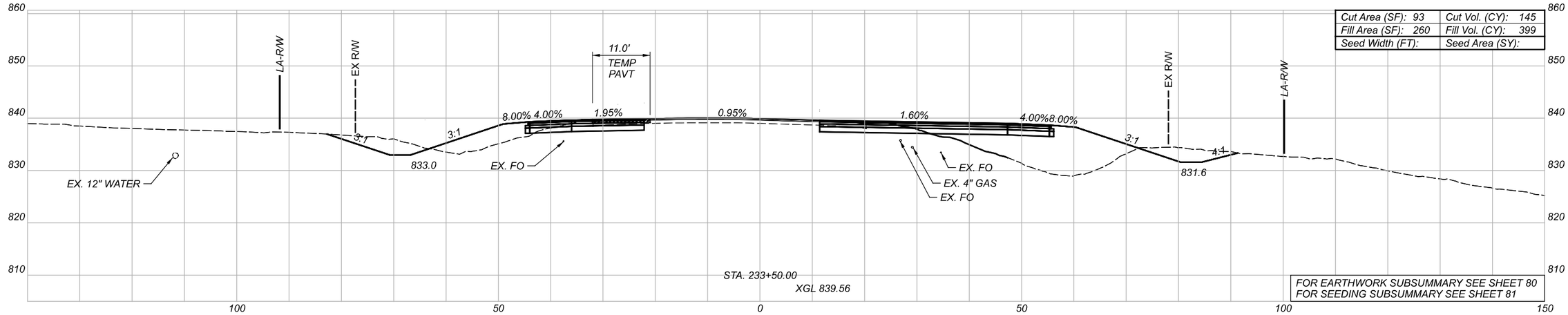
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WAR-63-0.83

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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn



Cut Area (SF): 68	Cut Vol. (CY): 149
Fill Area (SF): 359	Fill Vol. (CY): 573
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 93	Cut Vol. (CY): 145
Fill Area (SF): 260	Fill Vol. (CY): 399
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 233+50.00 TO STA. 234+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

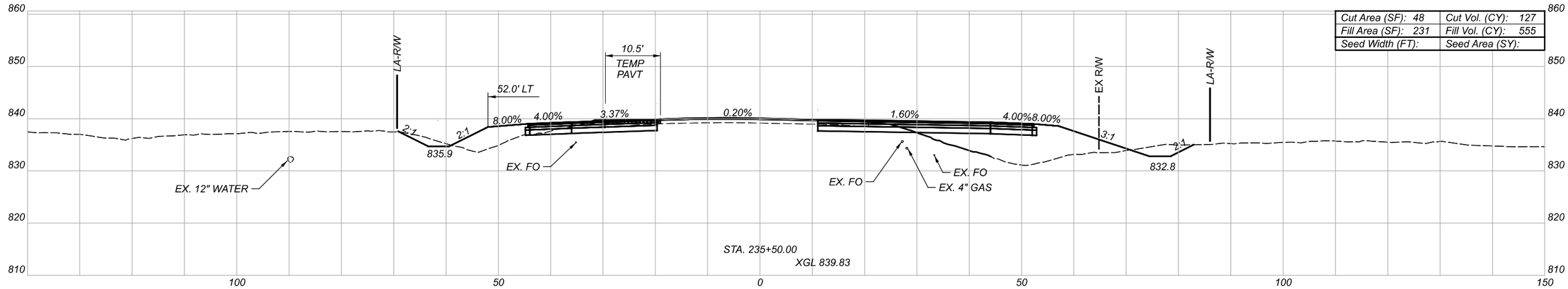
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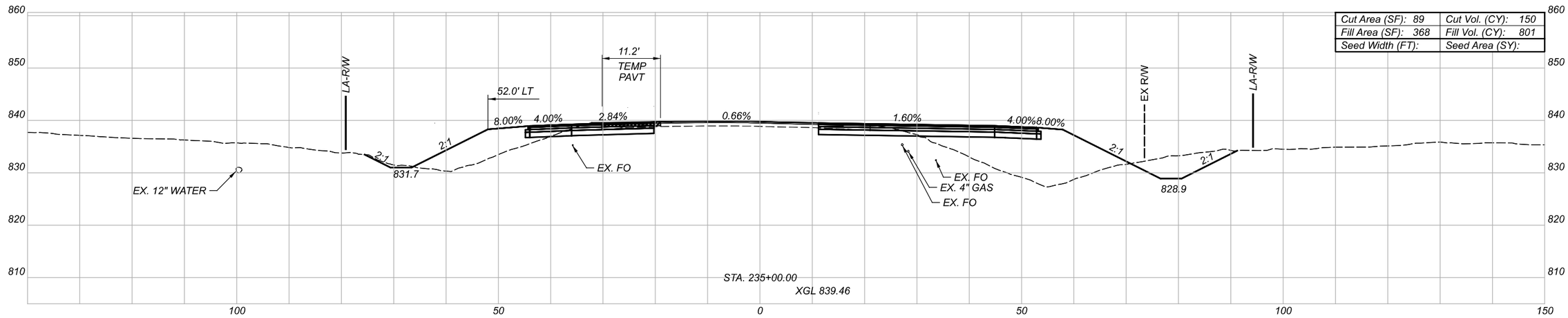
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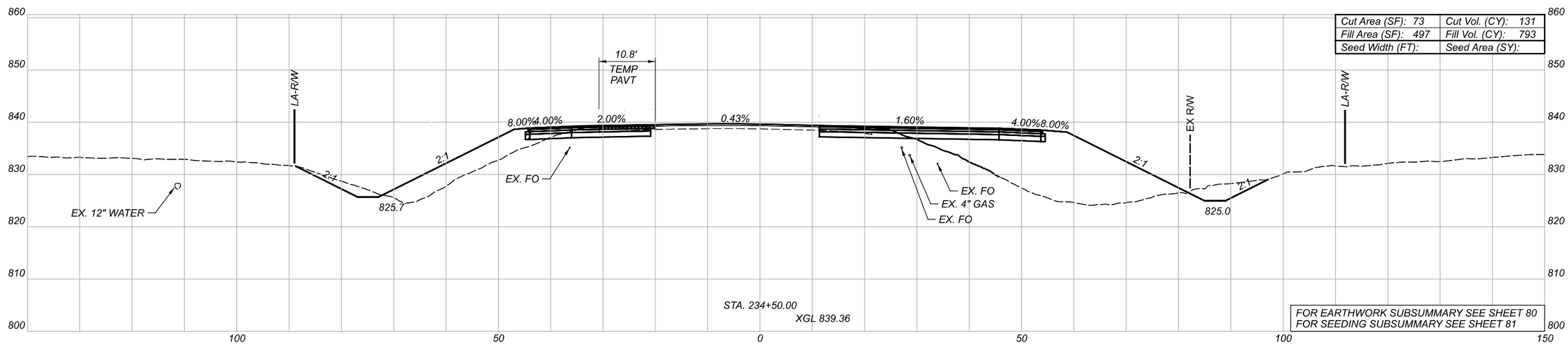
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WAR-63-0.83

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CROSS SECTIONS - SR 63
STA. 234+50.00 TO STA. 235+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

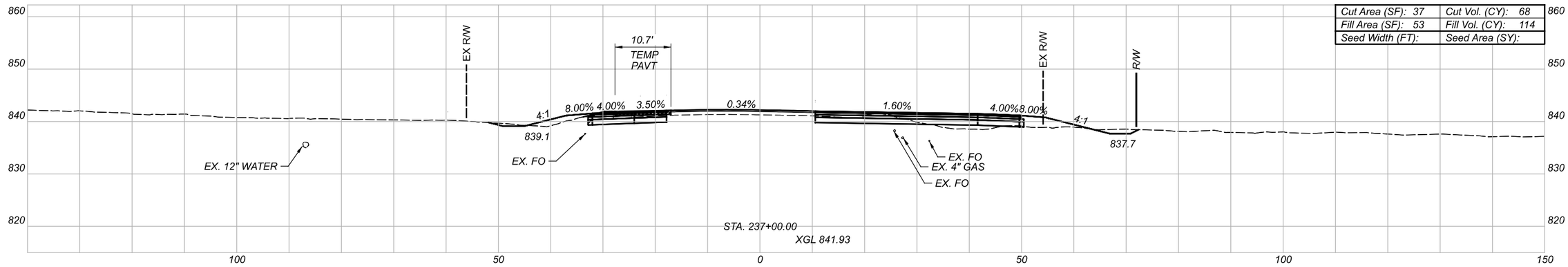
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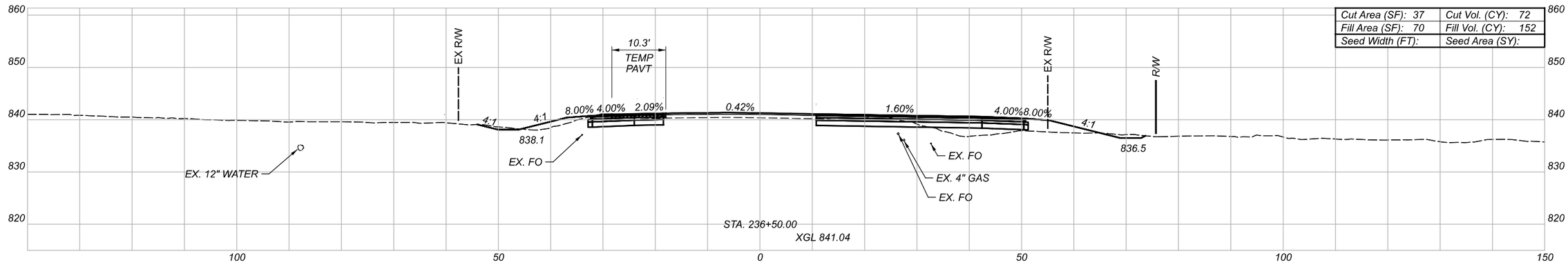
SHEET 238 TOTAL 436

WAR-63-0.83

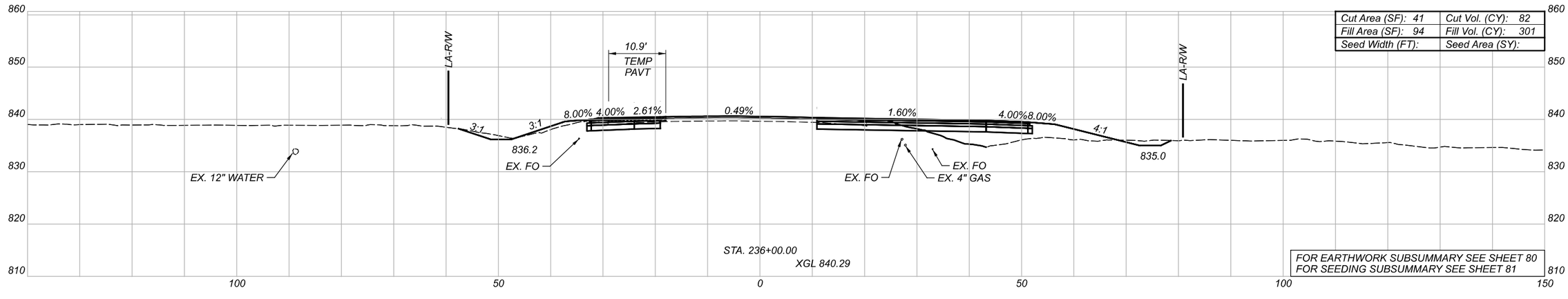
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Cut Area (SF): 37	Cut Vol. (CY): 68
Fill Area (SF): 53	Fill Vol. (CY): 114
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 37	Cut Vol. (CY): 72
Fill Area (SF): 70	Fill Vol. (CY): 152
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 41	Cut Vol. (CY): 82
Fill Area (SF): 94	Fill Vol. (CY): 301
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 236+00.00 TO STA. 237+00.00

WAR-63-0.83

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DESIGN AGENCY
JACOBS

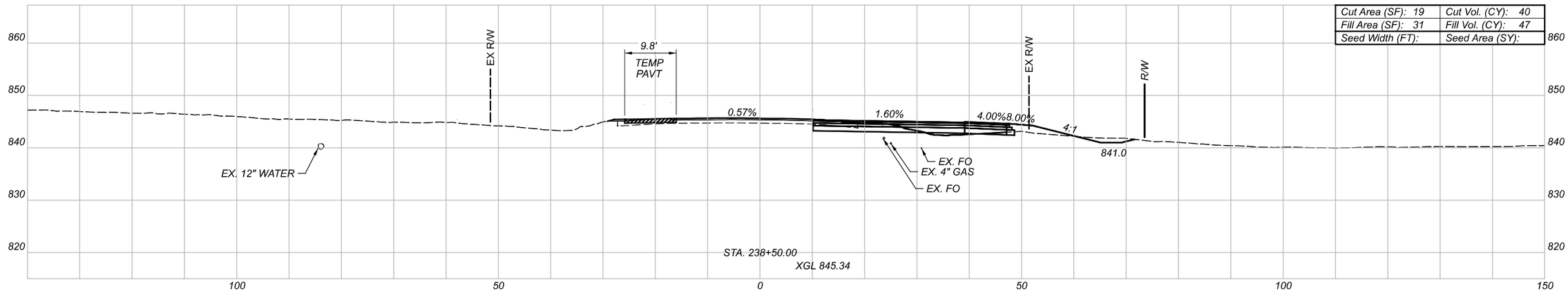
DESIGNER
JO

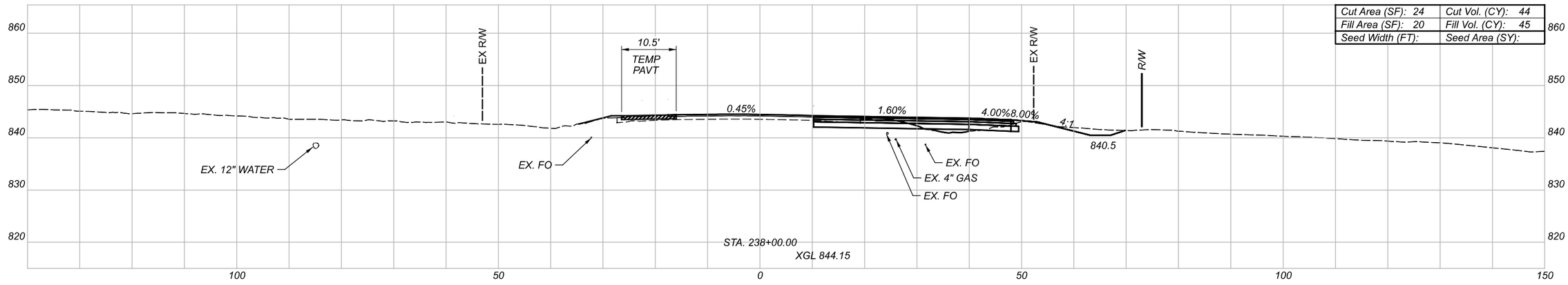
REVIEWER
RN 08/22/23

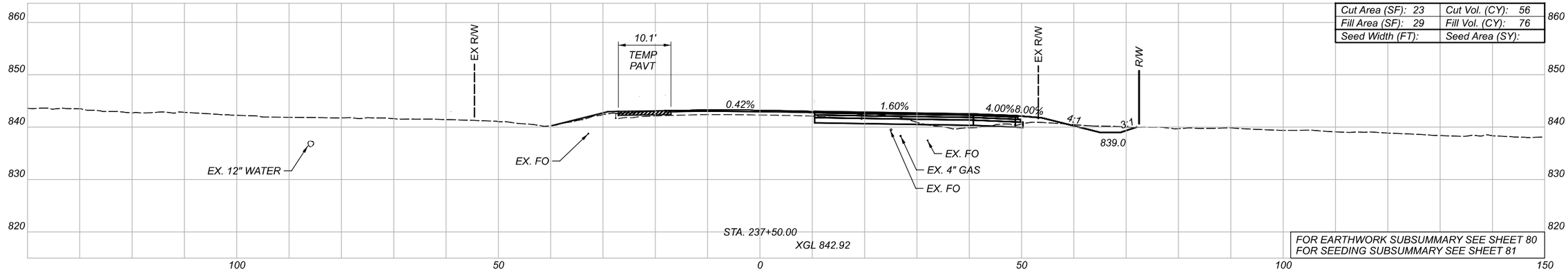
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
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SHEET 239 TOTAL 436







CROSS SECTIONS - SR 63
STA. 237+50.00 TO STA. 238+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

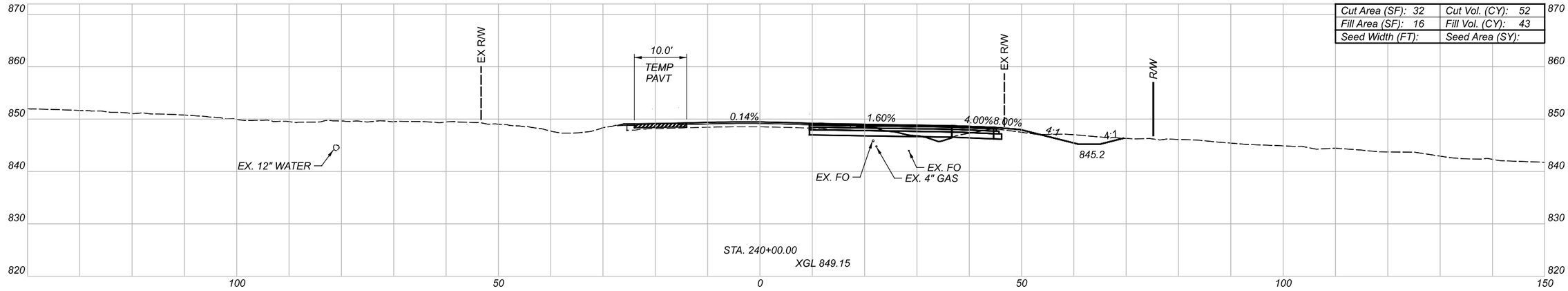
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
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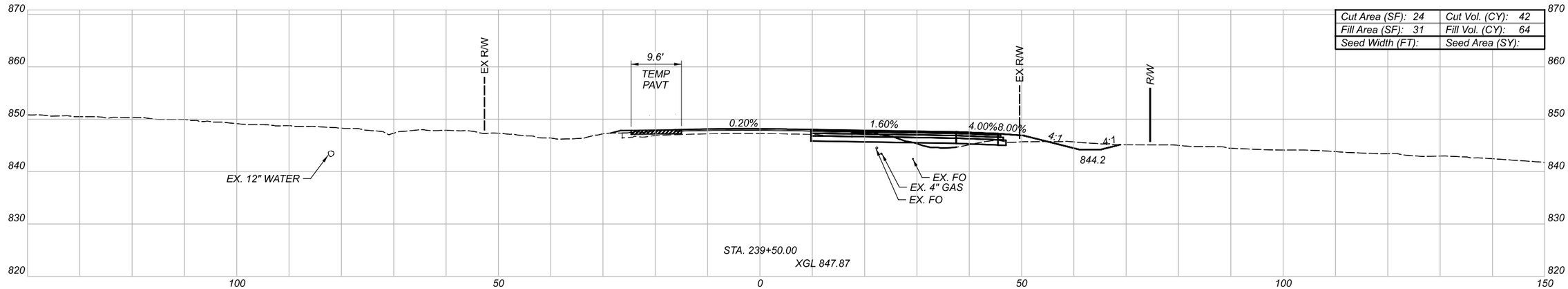
SHEET 240 TOTAL 436

WAR-63-0.83

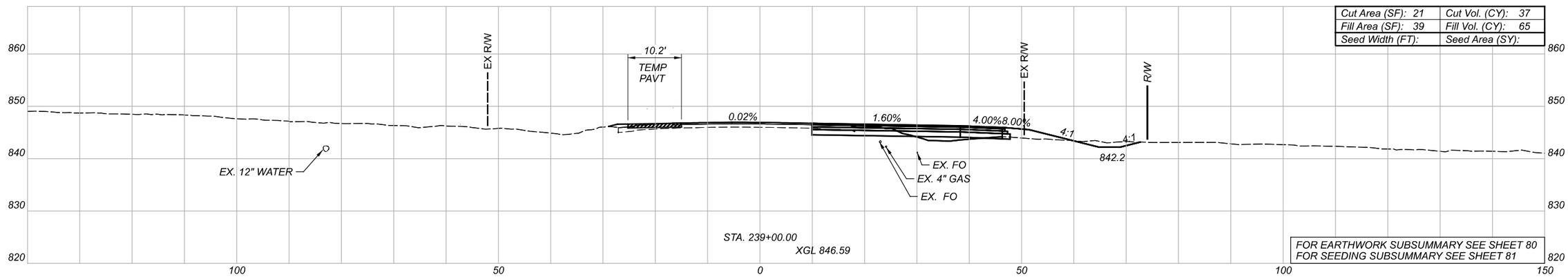
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Cut Area (SF): 32	Cut Vol. (CY): 52
Fill Area (SF): 16	Fill Vol. (CY): 43
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 24	Cut Vol. (CY): 42
Fill Area (SF): 31	Fill Vol. (CY): 64
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 21	Cut Vol. (CY): 37
Fill Area (SF): 39	Fill Vol. (CY): 65
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 239+00.00 TO STA. 240+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

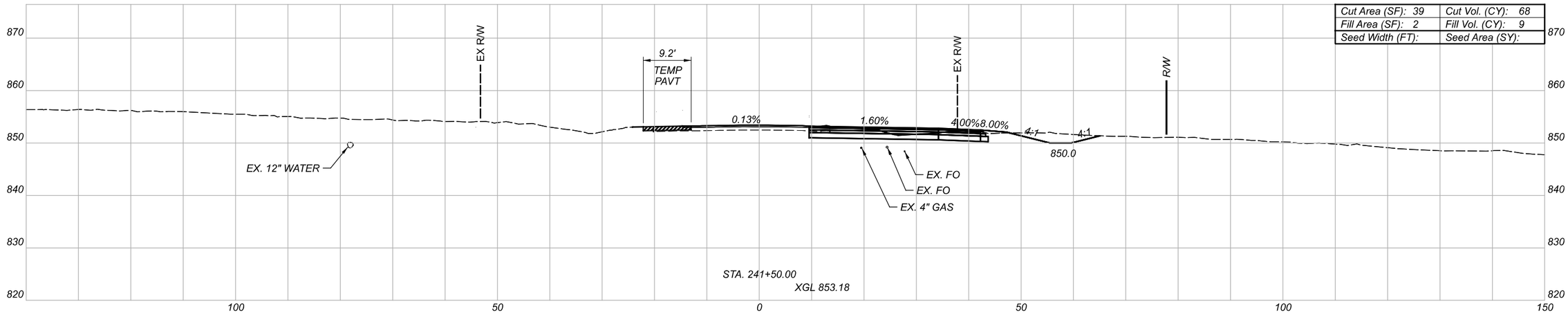
REVIEWER
RN 08/22/23

PROJECT ID
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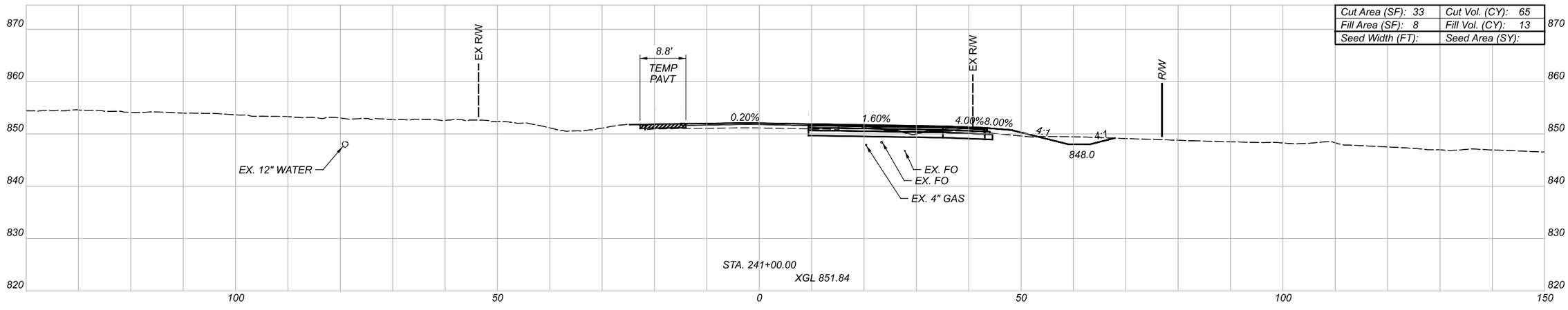
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Seeding	Cut	Fill		
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WAR-63-0.83

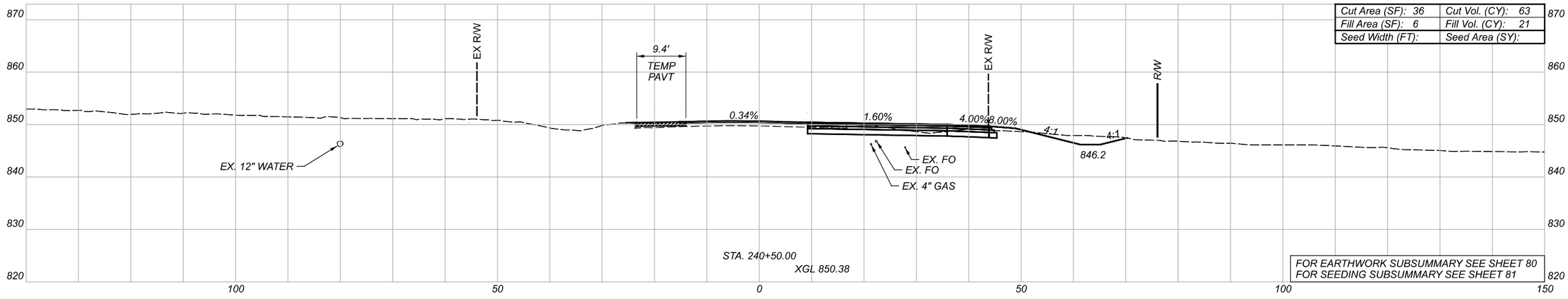
MODEL: CLP_SR63 - 239+00.00 [Sheet] PAPERSIZE: 11x17 (in.) DATE: 8/23/2023 TIME: 3:22:06 PM USER: Tahir.Sondo@jacobs.com
pw:\\Project-WiseAMER.jacobs.com:DEN003\Documents\C6A8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn



Cut Area (SF): 39	Cut Vol. (CY): 68
Fill Area (SF): 2	Fill Vol. (CY): 9
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 33	Cut Vol. (CY): 65
Fill Area (SF): 8	Fill Vol. (CY): 13
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 36	Cut Vol. (CY): 63
Fill Area (SF): 6	Fill Vol. (CY): 21
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 240+50.00 TO STA. 241+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

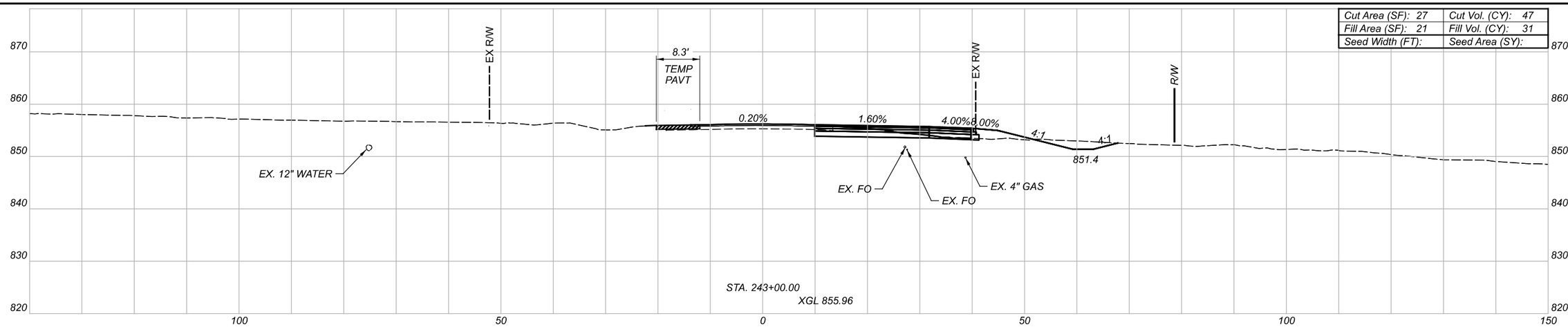
PROJECT ID
112121

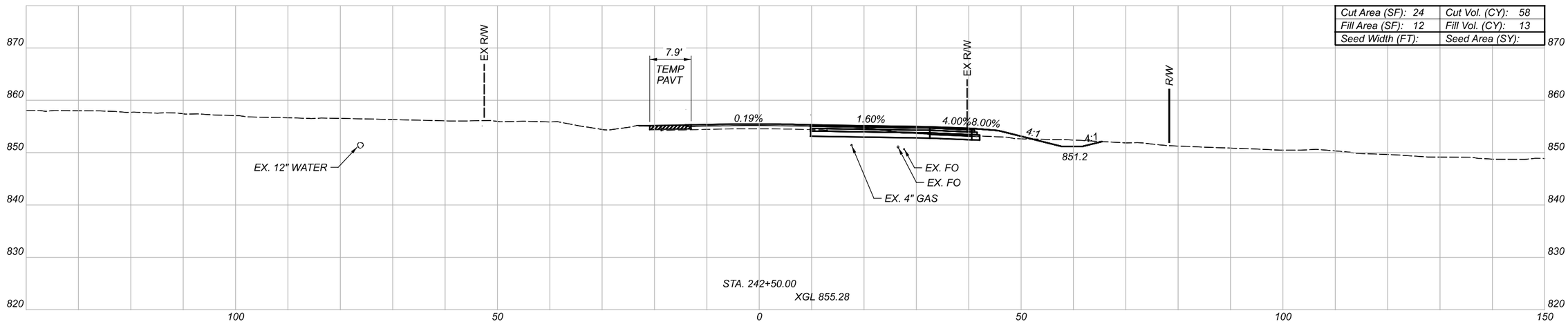
Sheet Totals		
Seeding	Cut	Fill
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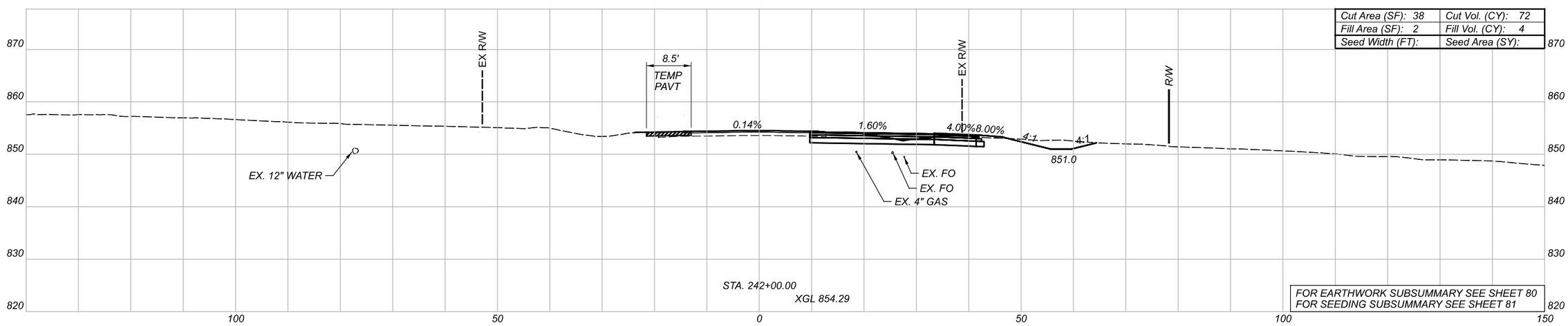
SHEET 242 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - 240+50.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 3:22:42 PM USER: Tahir.Sondo@Jacobs.com
pw:\ProjectWiseAMER.Jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00I.dgn







CROSS SECTIONS - SR 63
STA. 242+00.00 TO STA. 243+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

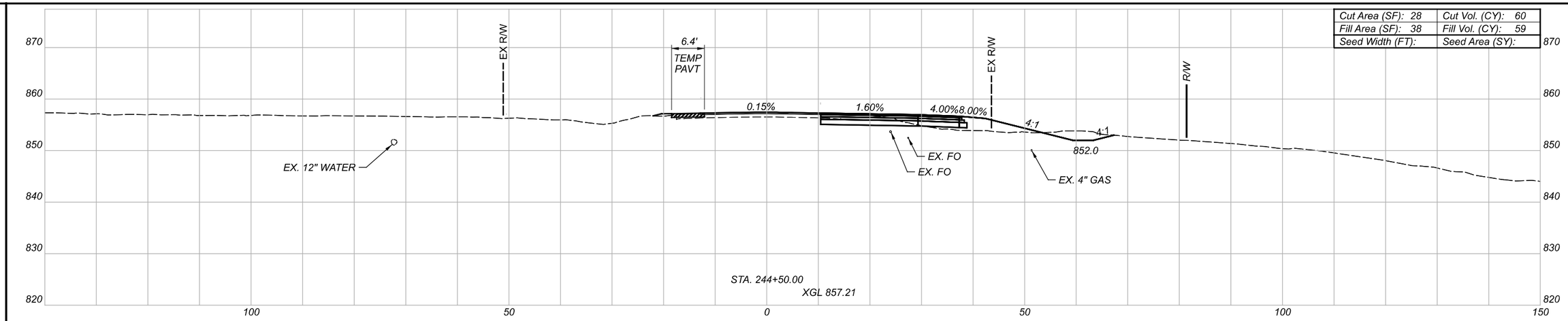
PROJECT ID
112121

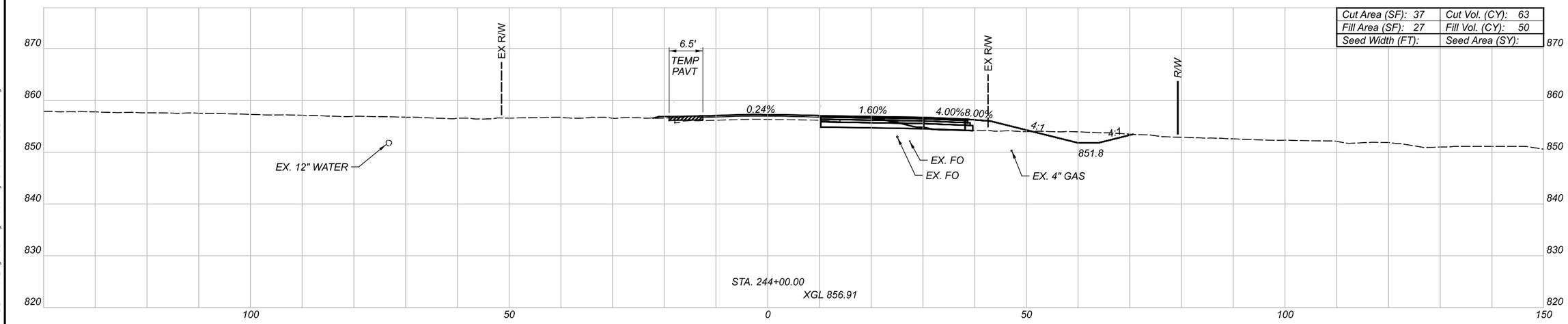
Sheet Totals		
Seeding	Cut	Fill
-	-	-

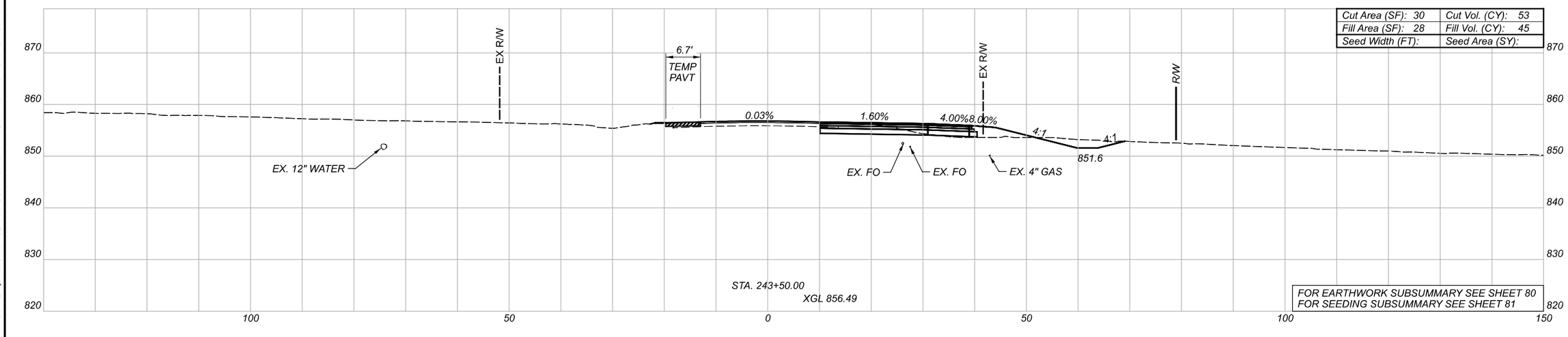
SHEET 243 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - 242+00.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 3:23:19 PM USER: Tahir.Sondo@Jacobs.com
pw:\\Project=WiseAMER.jacobs.com@EN0003\Documents\C6A18200 - SR 63 Reconstruction\Design\11212\400-Engineering\Roadway\Sheets\11212LXS001.dgn







CROSS SECTIONS - SR 63
STA. 243+50.00 TO STA. 244+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

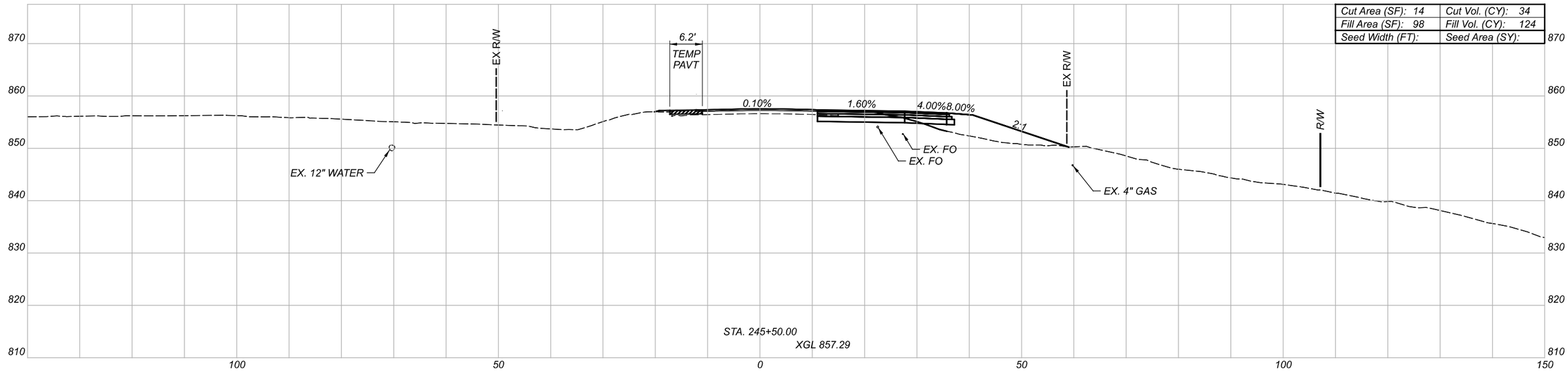
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET 244 TOTAL 436

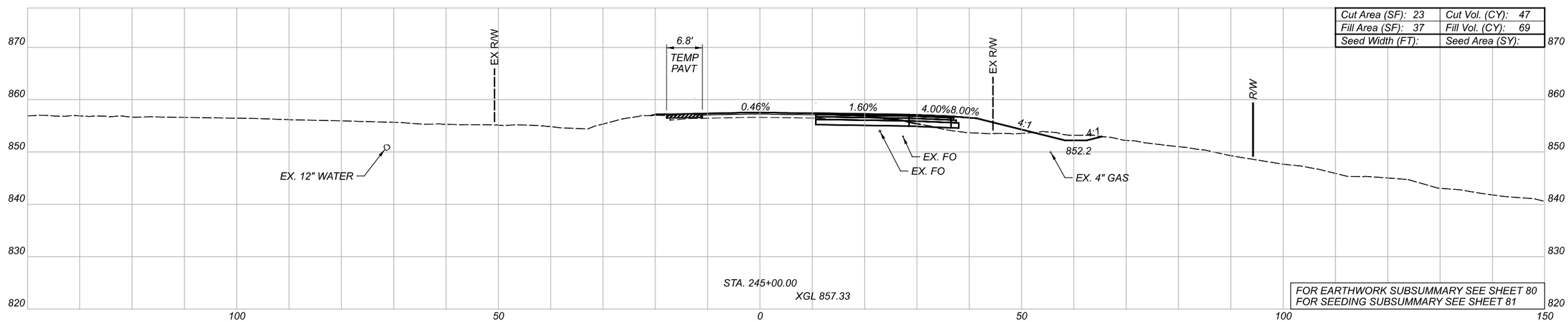
WAR-63-0.83

MODEL: CLP_SR63 - 243+50.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 3:23:55 PM USER: Tahir.Sondo@Jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn



Cut Area (SF): 14	Cut Vol. (CY): 34
Fill Area (SF): 98	Fill Vol. (CY): 124
Seed Width (FT):	Seed Area (SY):

STA. 245+50.00
XGL 857.29



Cut Area (SF): 23	Cut Vol. (CY): 47
Fill Area (SF): 37	Fill Vol. (CY): 69
Seed Width (FT):	Seed Area (SY):

STA. 245+00.00
XGL 857.33

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 245+00.00 TO STA. 245+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

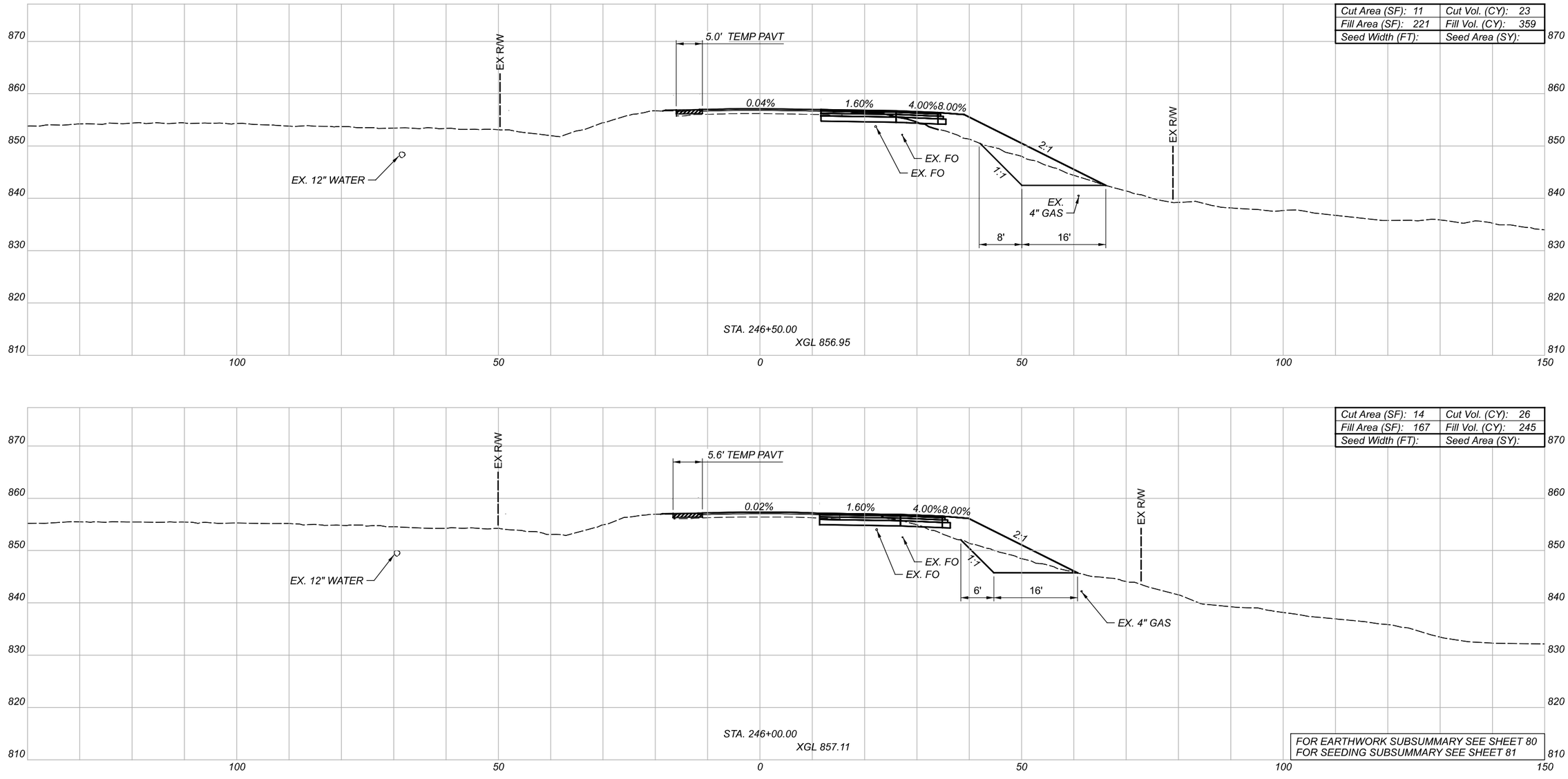
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET 245 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - 245+00.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 3:24:30 PM USER: Tahir.Sondo@jacobs.com
pw:\\Project=WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn



FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 246+00.00 TO STA. 246+50.00

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

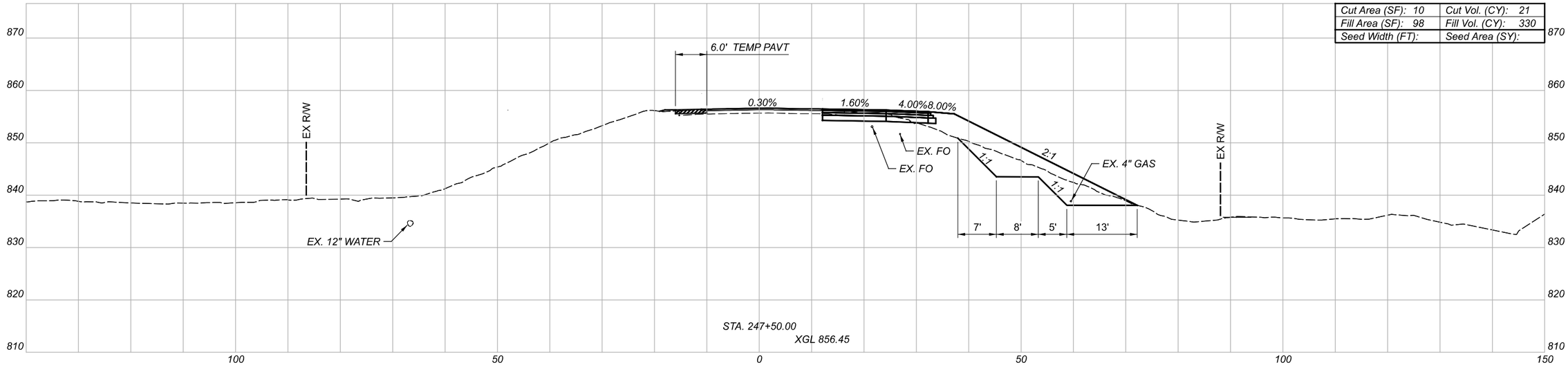
PROJECT ID
112121

SHEET 246 TOTAL 436

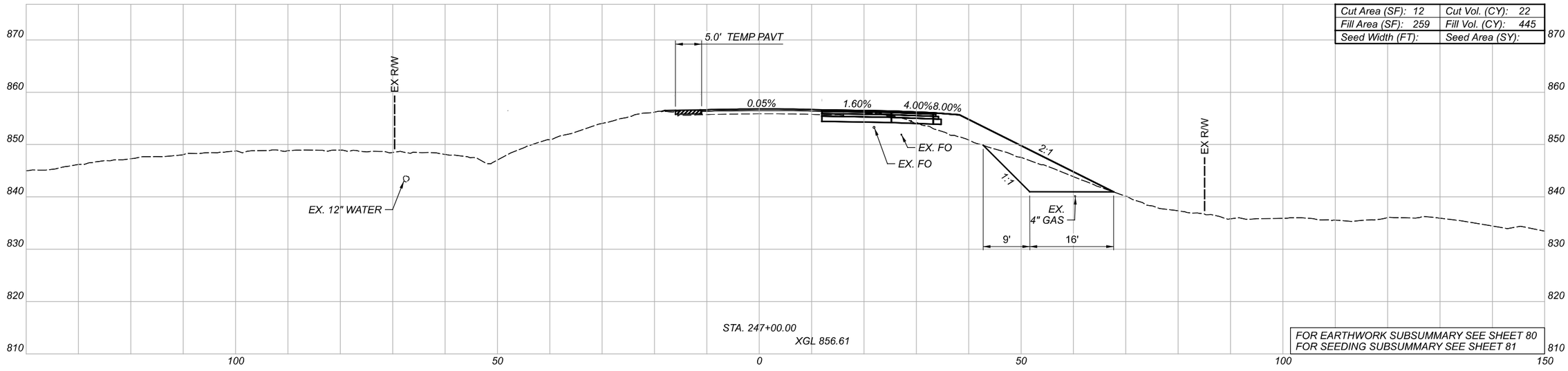
WAR-63-0.83

MODEL: CLP_SR63 - 246+00.00 [Sheet] PAPERSIZE: 17x11in DATE: 8/23/2023 TIME: 3:24:55 PM USER: Tahir.Sondo@Jacobs.com
pw:\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn

Cut Area (SF): 10	Cut Vol. (CY): 21
Fill Area (SF): 98	Fill Vol. (CY): 330
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 12	Cut Vol. (CY): 22
Fill Area (SF): 259	Fill Vol. (CY): 445
Seed Width (FT):	Seed Area (SY):



FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 247+00.00 TO STA. 247+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

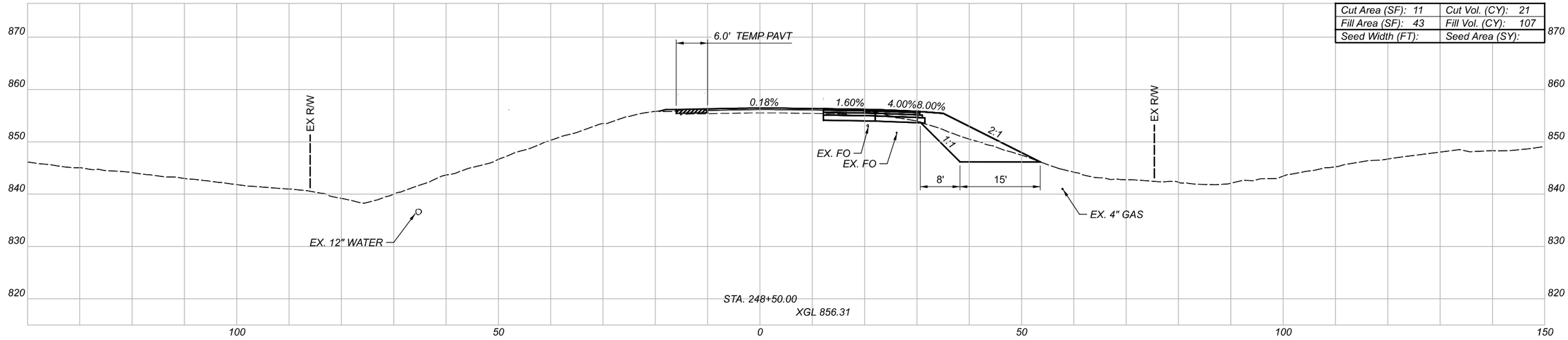
PROJECT ID
112121

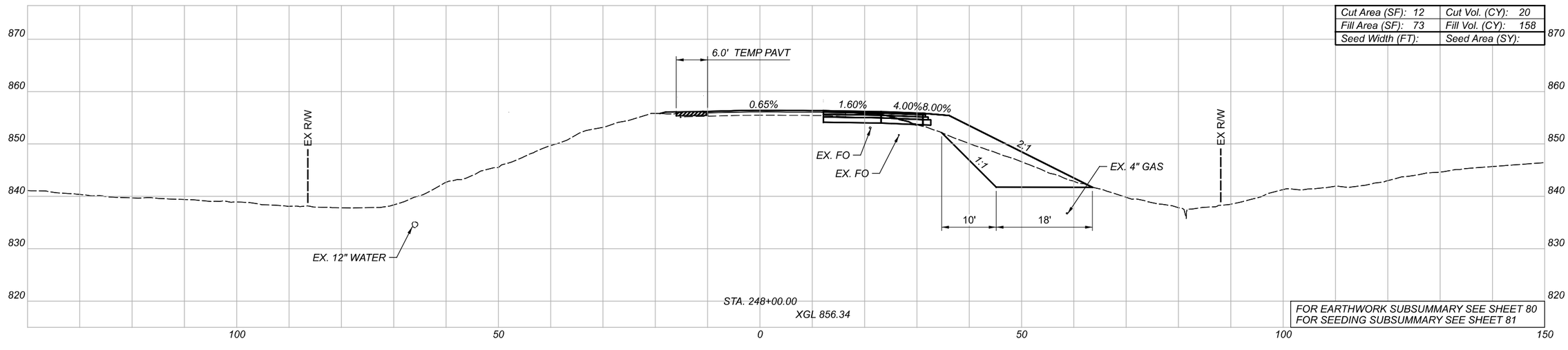
Sheet Totals		
Seeding	Cut	Fill
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SHEET 247 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - 247+00.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 3:25:19 PM USER: Tahir.Sondo@Jacobs.com
pw:\\Project=WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn





CROSS SECTIONS - SR 63
STA. 248+00.00 TO STA. 248+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

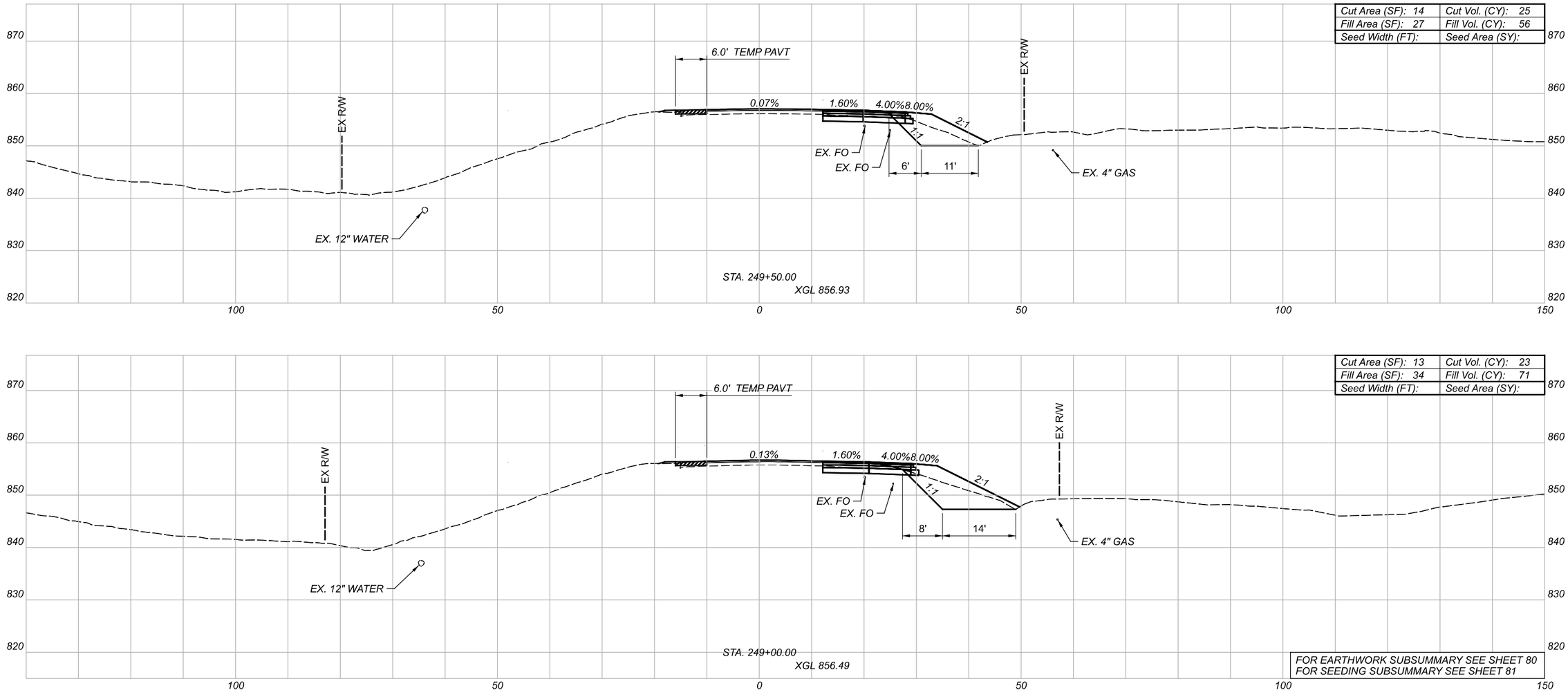
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET 248 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - 248+00.00 [Sheet] PAPERSIZE: 17x11in DATE: 8/23/2023 TIME: 3:25:43 PM USER: Tahir.Sondo@Jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00i.dgn



CROSS SECTIONS - SR 63
STA. 249+00.00 TO STA. 249+50.00

WAR-63-0.83

MODEL: CLP_SR63 - 249+00.00 [Sheet] PAPERSIZE: ltxill (in.) DATE: 8/23/2023 TIME: 3:26:09 PM USER: Tahir.Sondo@jacobs.com
pw:\\Project=WiseAMER.jacobs.com:DEN003\Documents\C6A8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00l.dgn

DESIGN AGENCY
JACOBS

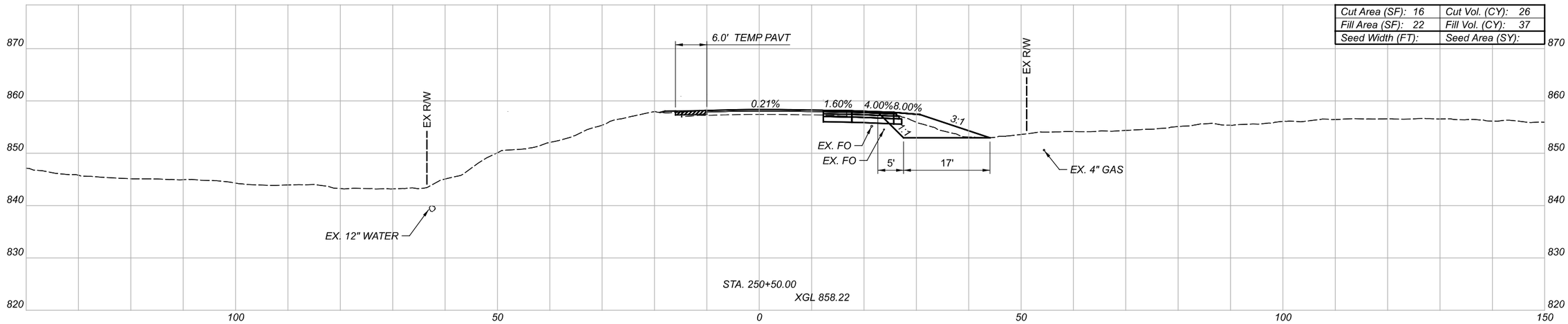
DESIGNER
JO

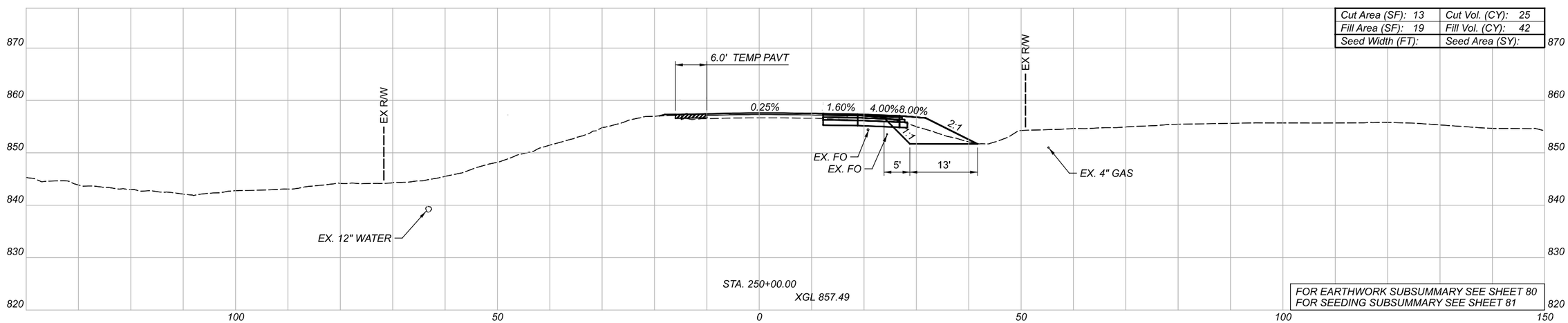
REVIEWER
RN 08/22/23

PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET 249 TOTAL 436





CROSS SECTIONS - SR 63
STA. 250+00.00 TO STA. 250+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

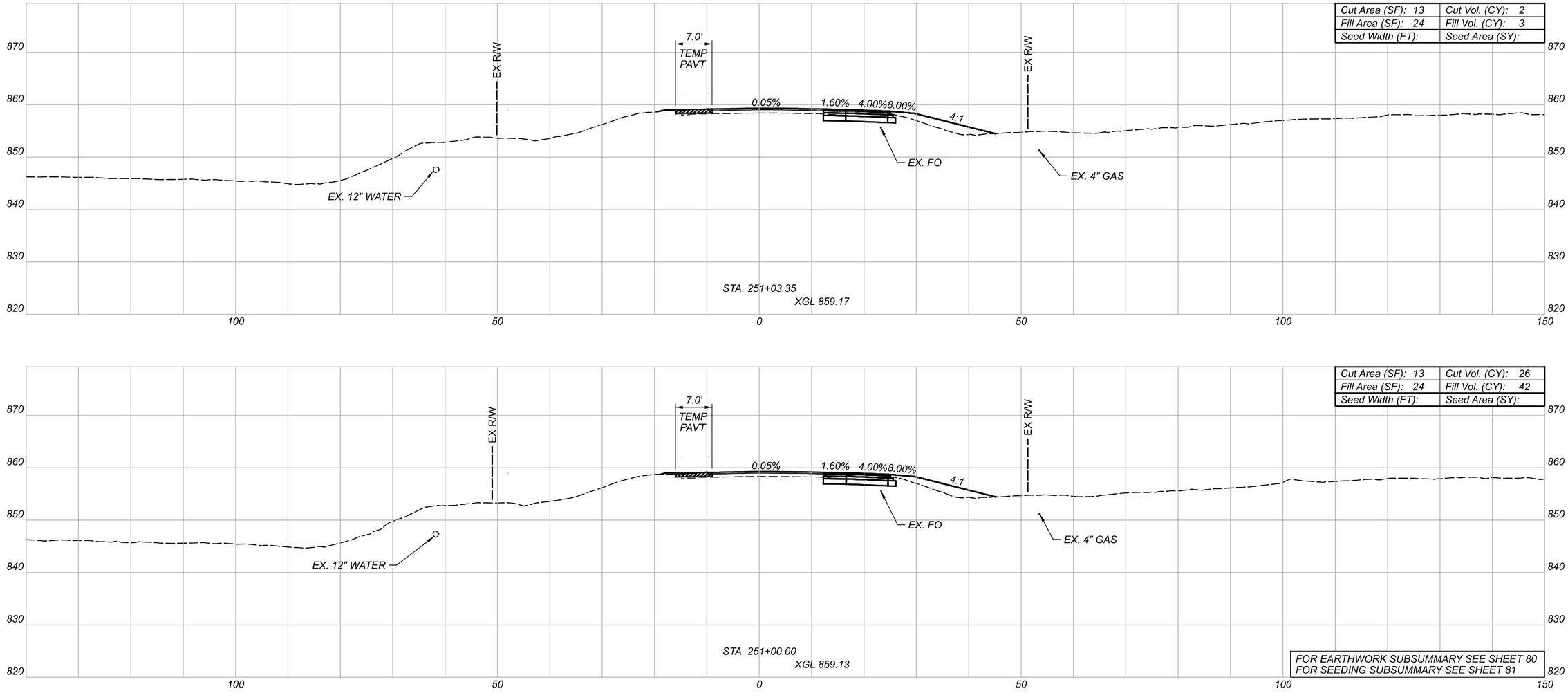
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
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SHEET 250 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - 250+00.00 [Sheet] PAPERSIZE: 17x11(in) DATE: 8/23/2023 TIME: 3:26:33 PM USER: Tahir.Sondo@jacobs.com
pw:\\Project\WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn



CROSS SECTIONS - SR 63
STA. 251+00.00 TO STA. 251+03.35

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

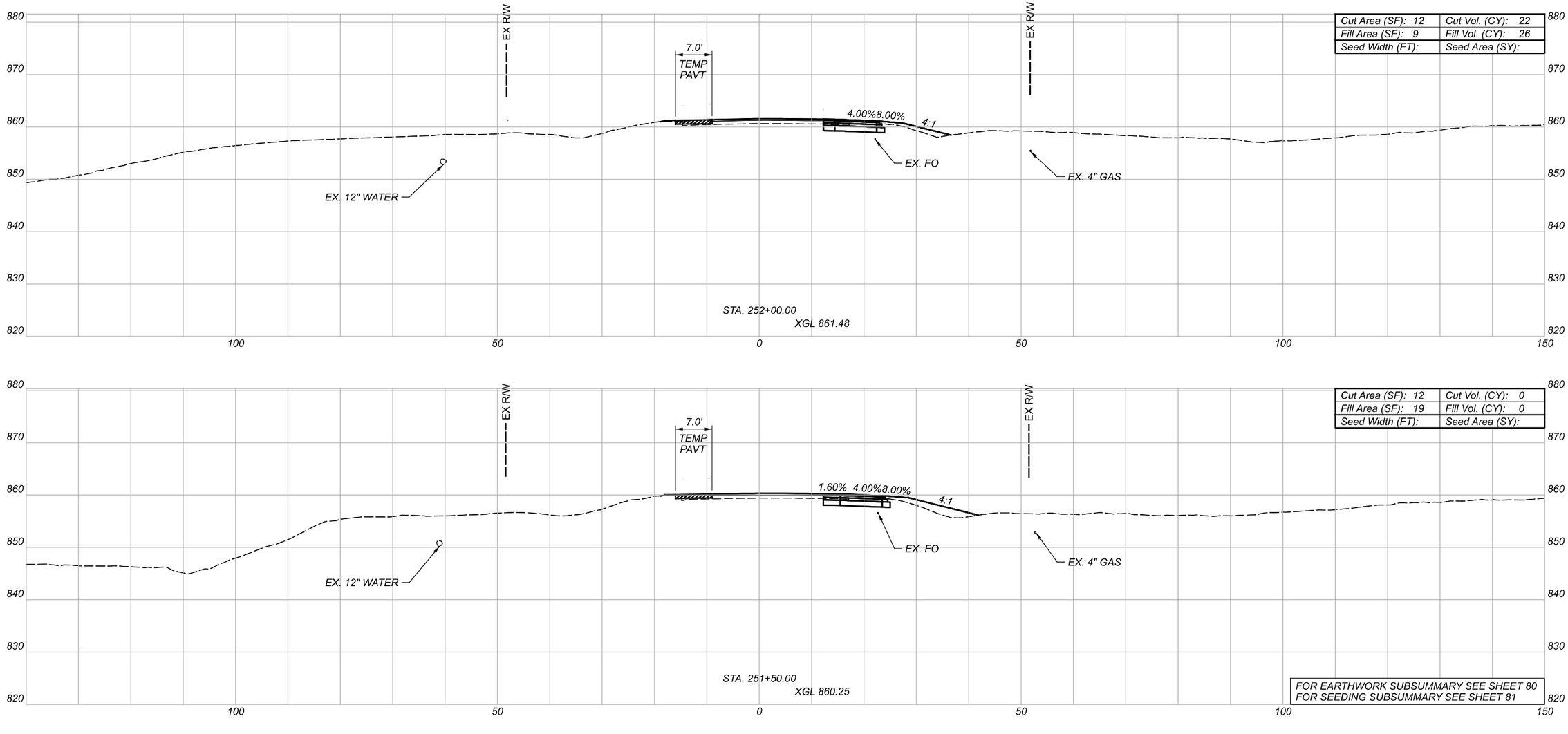
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET 251 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR63 - 251+00.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 3:26:58 PM USER: Tahir.Sondo@Jacobs.com
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CROSS SECTIONS - SR 63
STA. 251+50.00 TO STA. 252+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

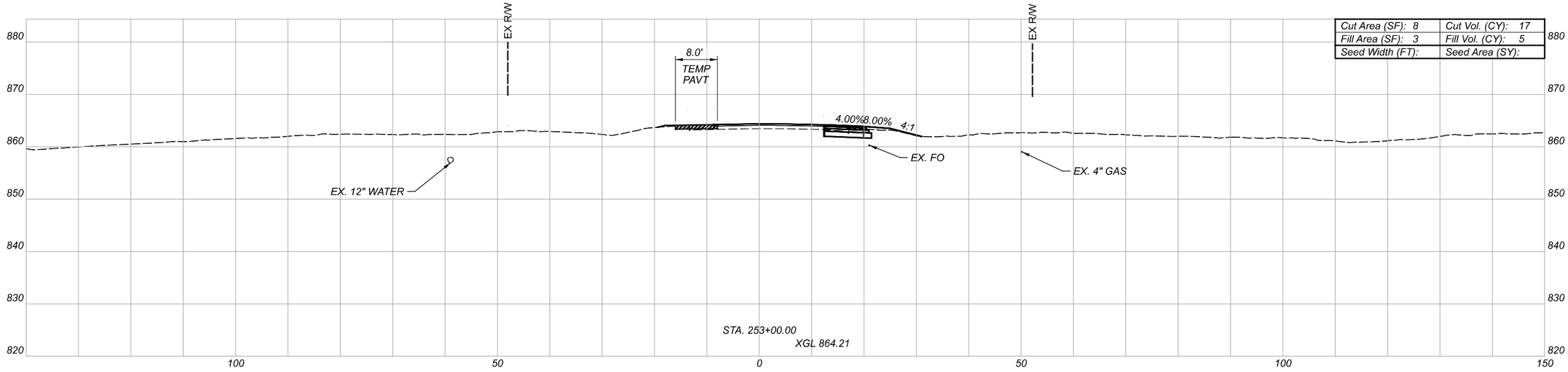
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET 251A | TOTAL 436

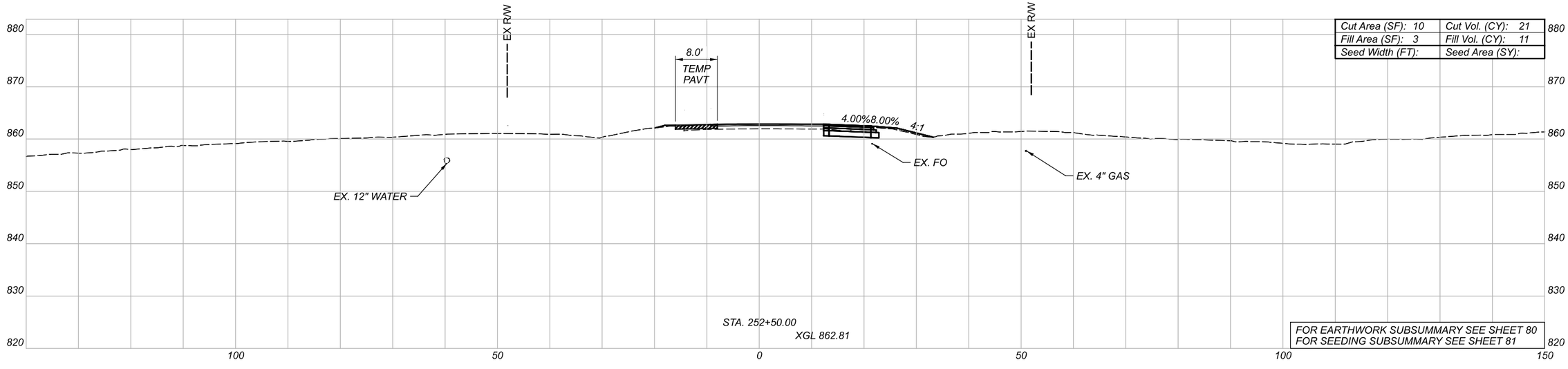
WAR-63-0.83

MODEL: CLP_SR64 - 25i+50.00 (Sheet) PAPERSIZE: 17x11 (in.) DATE: 8/24/2023 TIME: 12:33:15 AM USER: rnunna
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00.dgn



STA. 253+00.00
XGL 864.21

Cut Area (SF): 8	Cut Vol. (CY): 17
Fill Area (SF): 3	Fill Vol. (CY): 5
Seed Width (FT):	Seed Area (SY):



STA. 252+50.00
XGL 862.81

Cut Area (SF): 10	Cut Vol. (CY): 21
Fill Area (SF): 3	Fill Vol. (CY): 11
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 252+50.00 TO STA. 253+00.00

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

DESIGNER
JO

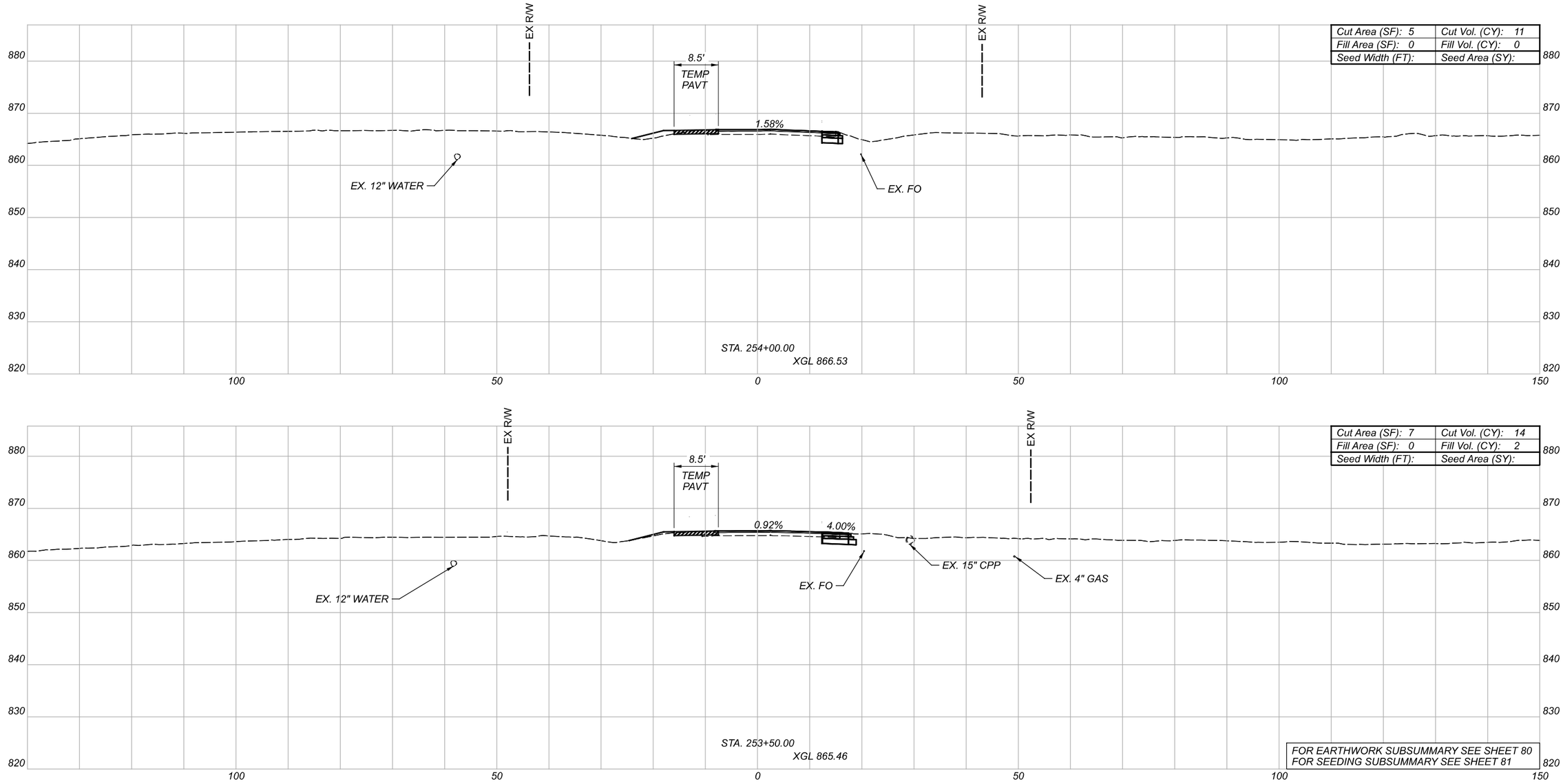
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 251B | TOTAL 436

WAR-63-0.83

MODEL: CLP_SR64 - 252+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/24/2023 TIME: 12:35:51 AM USER: rnunno
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS00i.dgn



CROSS SECTIONS - SR 63
STA. 253+50.00 TO STA. 254+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
.	.	.

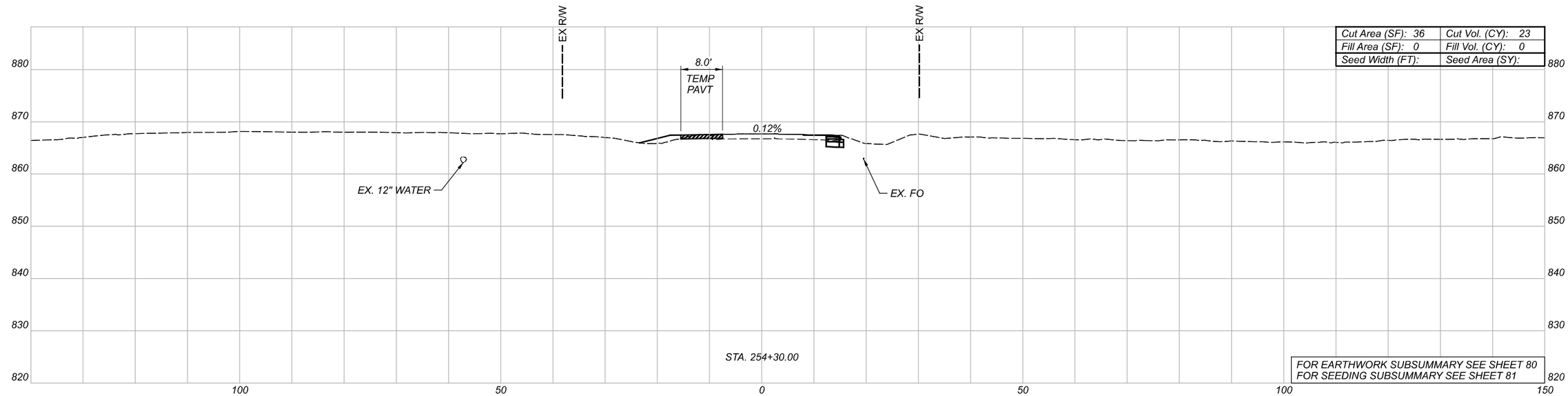
SHEET 251C TOTAL 436

WAR-63-0.83

MODEL: CLP_SR64 - 253+50.00 [Sheet] PAPERSIZE: ltxll(in) DATE: 8/24/2023 TIME: 12:37:01 AM USER: rnunna
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WAR-63-0.83

MODEL: CLP_SR64 - 254+30.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/24/2023 TIME: 12:38:12 AM USER: rnunna
pw:\\Project-WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS001.dgn



Cut Area (SF): 36	Cut Vol. (CY): 23
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 63
STA. 254+30.00

DESIGN AGENCY
JACOBS

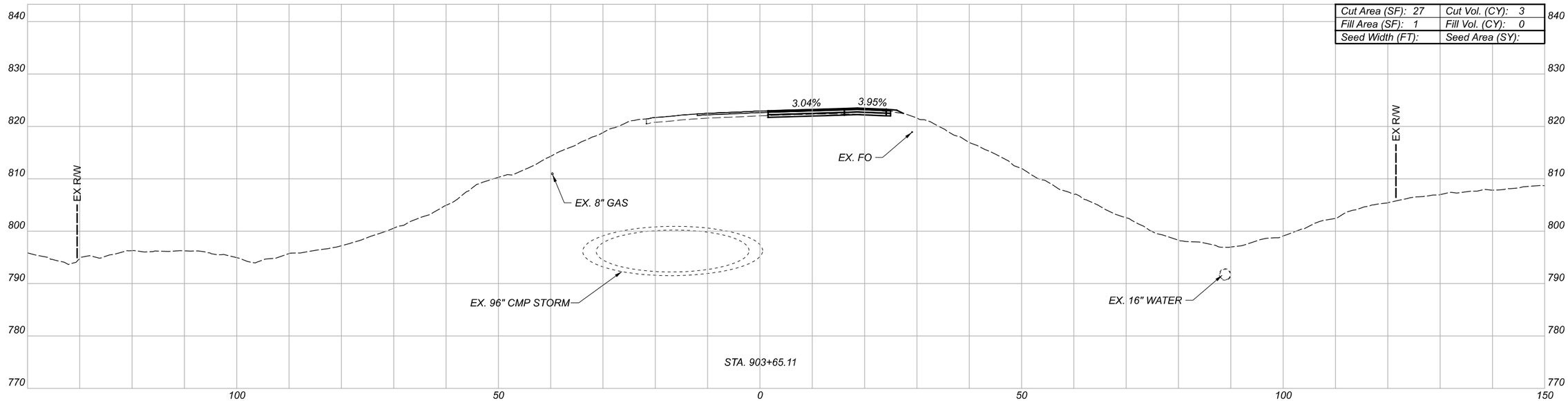
DESIGNER
JO

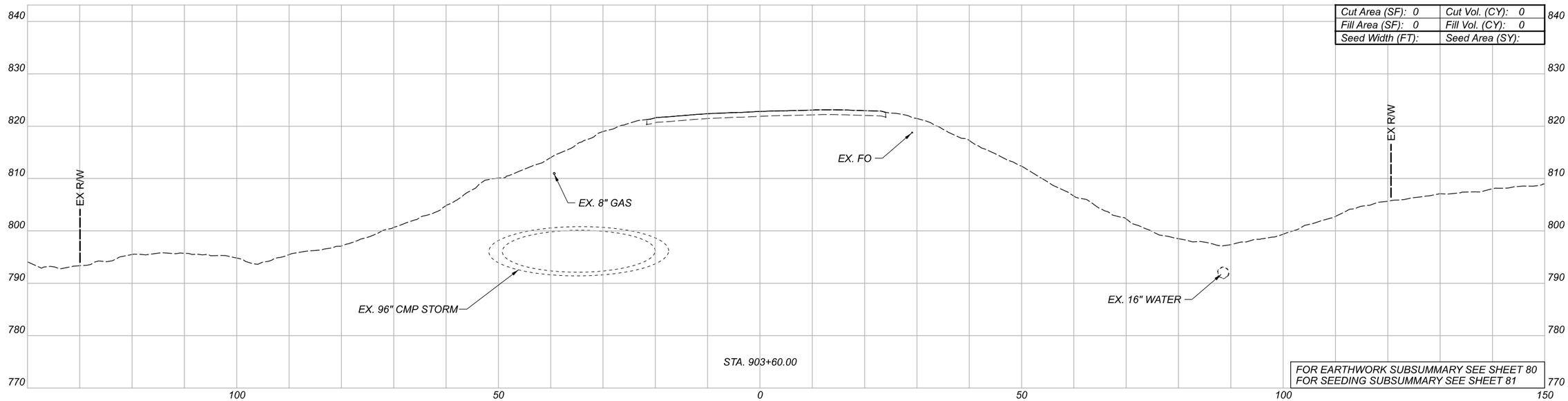
REVIEWER
RN 08/22/23

PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET 251D
TOTAL 436





CROSS SECTIONS - SR 741
STA. 903+60.00 TO STA. 903+65.11

WAR-63-0.83

MODEL: CLP_SR74IF - 903+60.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 3:29:30 PM USER: Tahir.Sondo@Jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6AI8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS002.dgn

Sheet Totals		
Seeding	Cut	Fill
-	-	-

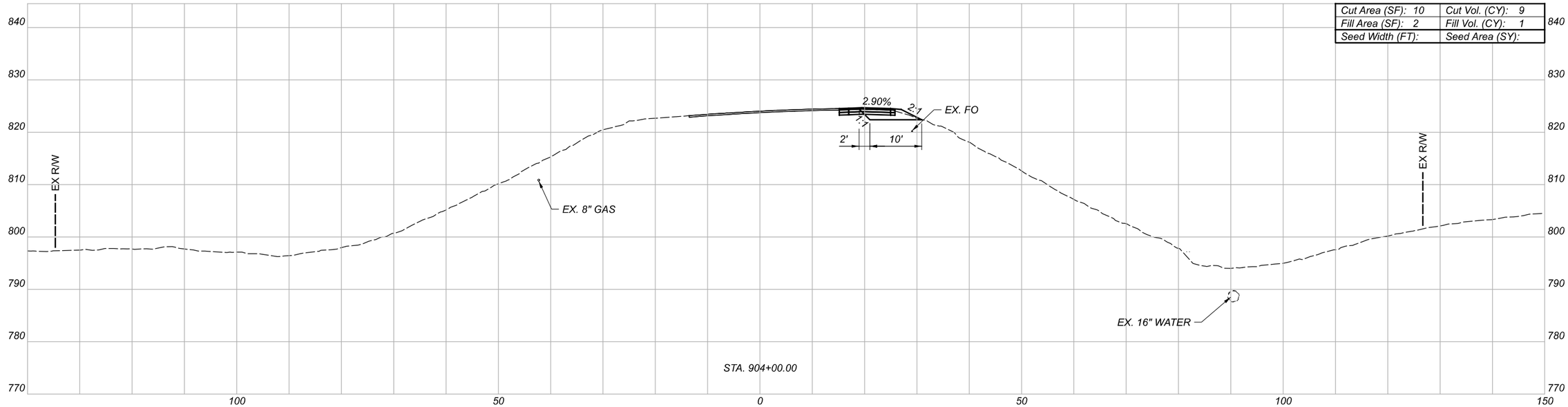
DESIGN AGENCY
JACOBS

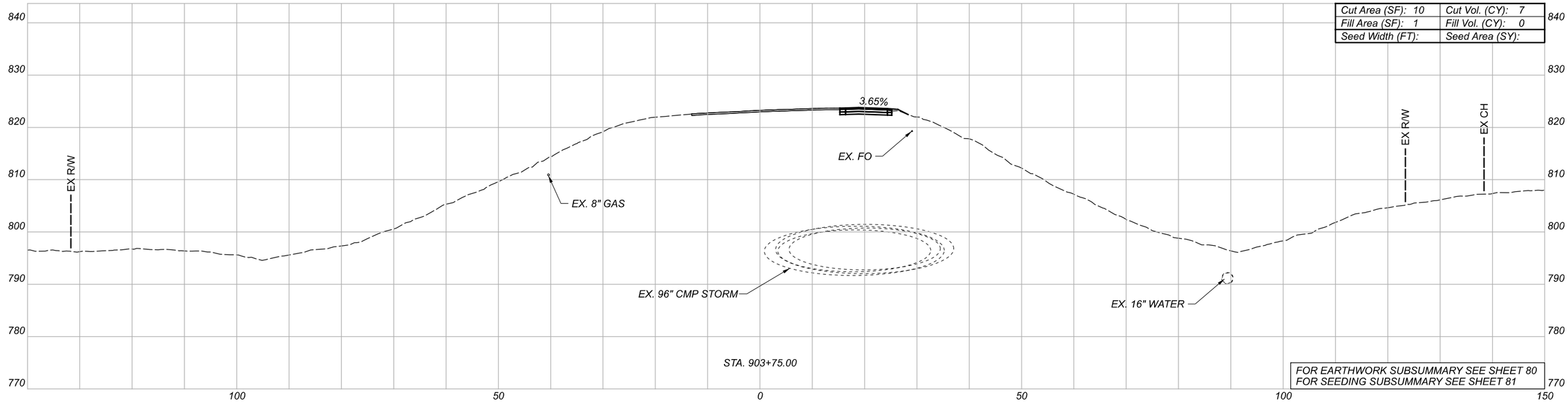
DESIGNER
JO

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 252 TOTAL 436





CROSS SECTIONS - SR 741
STA. 903+75.00 TO STA. 904+00.00

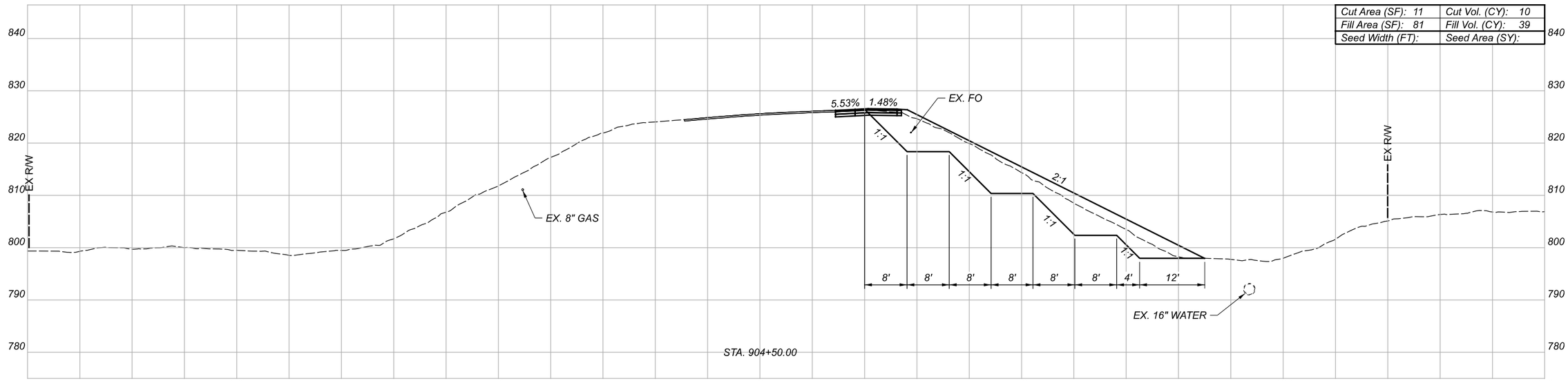
DESIGN AGENCY
JACOBS

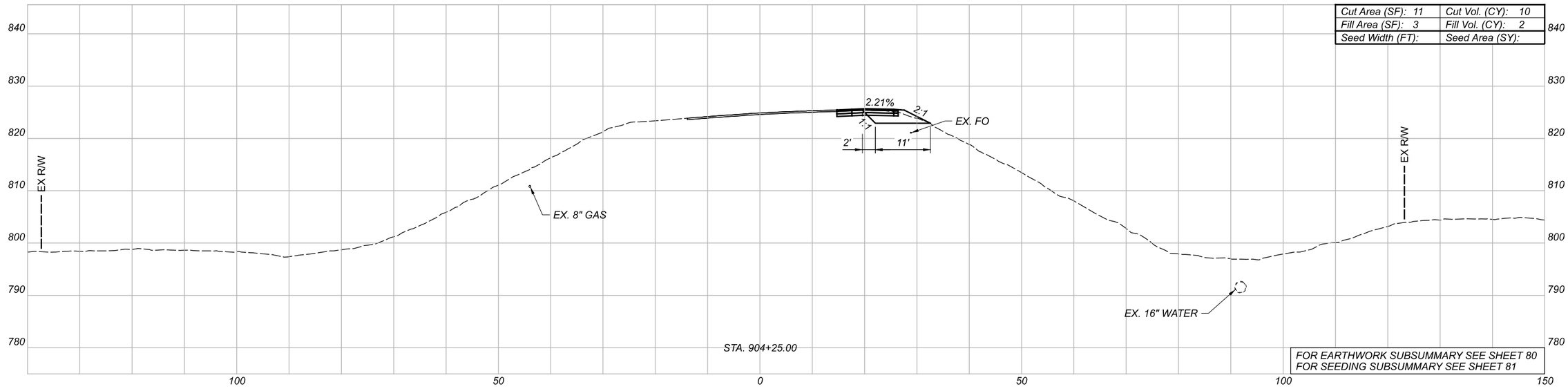
DESIGNER	
JO	
REVIEWER	
RN	08/22/23
PROJECT ID	
112121	
SHEET	TOTAL
253	436

Sheet Totals		
Seeding	Cut	Fill
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WAR-63-0.83

MODEL: CLP_SR74IF - 903+75.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 3:29:57 PM USER: Tahir.Sondo@jacobs.com
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CROSS SECTIONS - SR 741
STA. 904+25.00 TO STA. 904+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

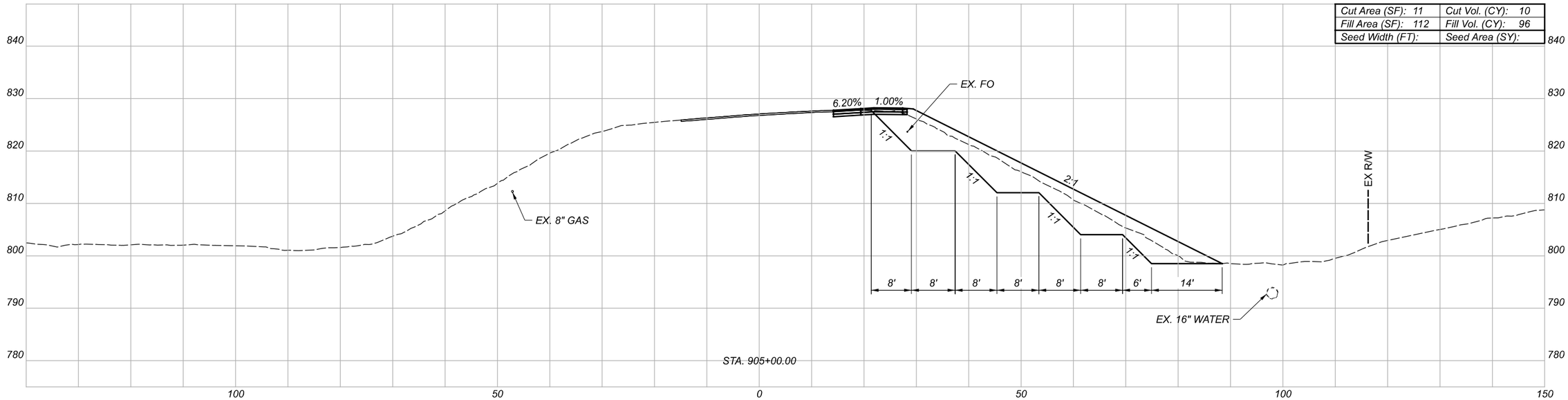
PROJECT ID
112121

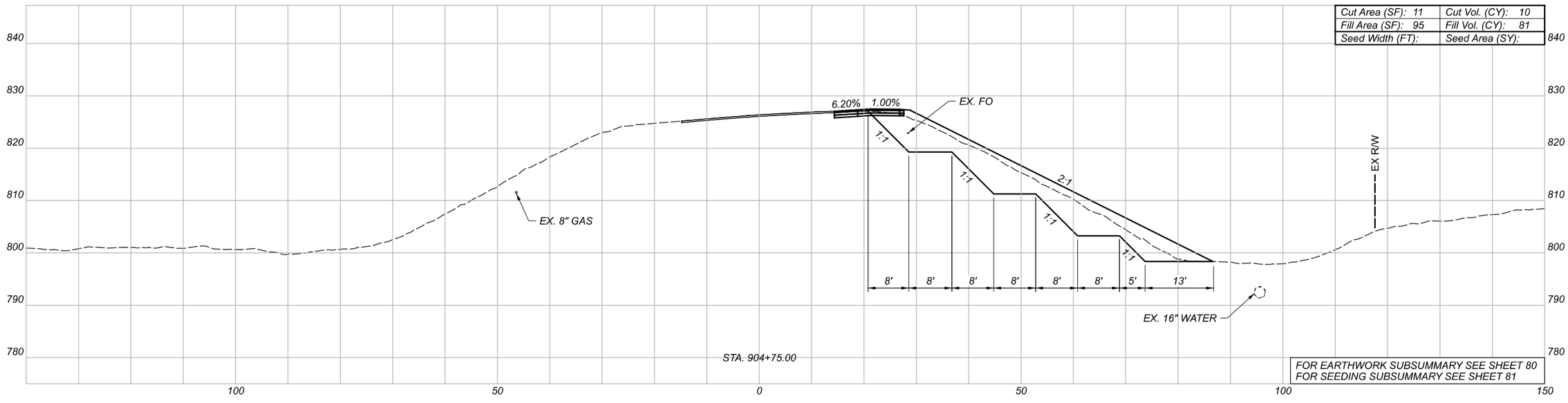
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SHEET 254 TOTAL 436

WAR-63-0.83

MODEL: CLP_SR741F - 904+25.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 3:30:9 PM USER: Tahir.Sondo@Jacobs.com
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FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 904+75.00 TO STA. 905+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
JACOBS

DESIGNER
JO

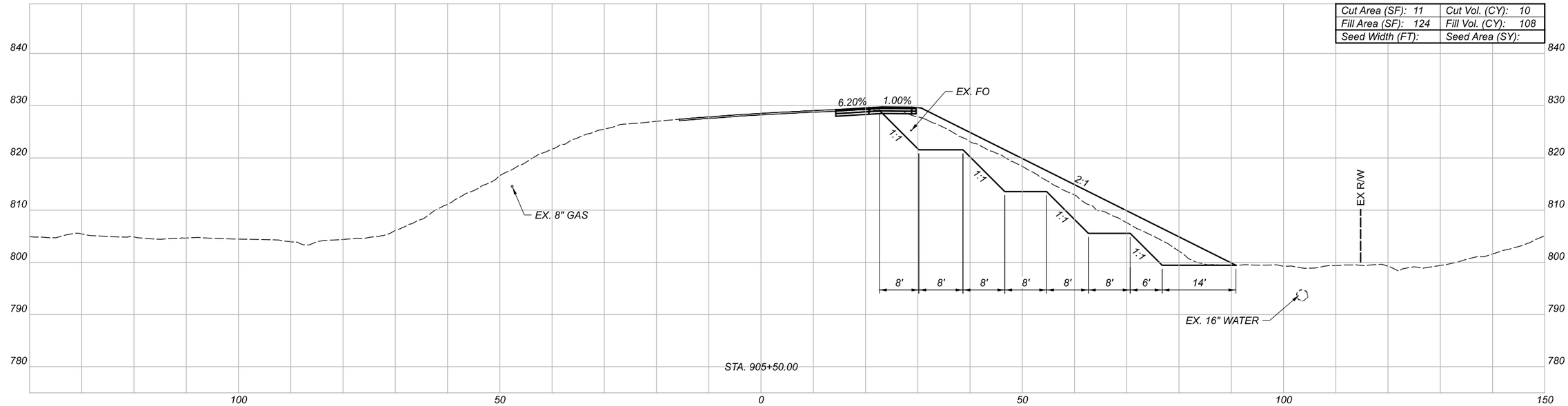
REVIEWER
RN 08/22/23

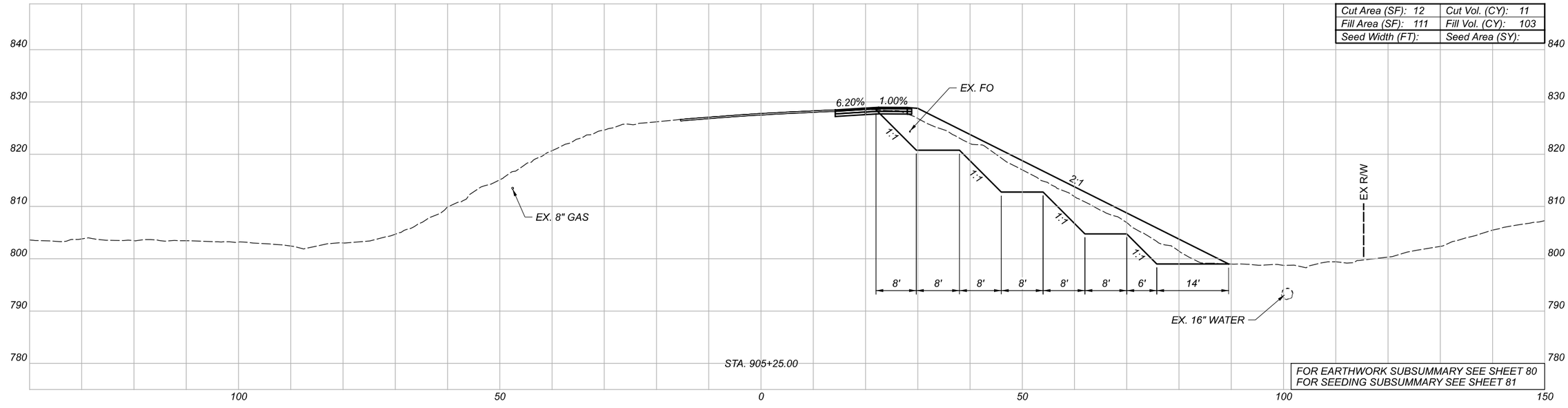
PROJECT ID
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SHEET 255 TOTAL 436

WAR-63-0.83

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CROSS SECTIONS - SR 741
STA. 905+25.00 TO STA. 905+50.00

WAR-63-0.83

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Sheet Totals		
Seeding	Cut	Fill
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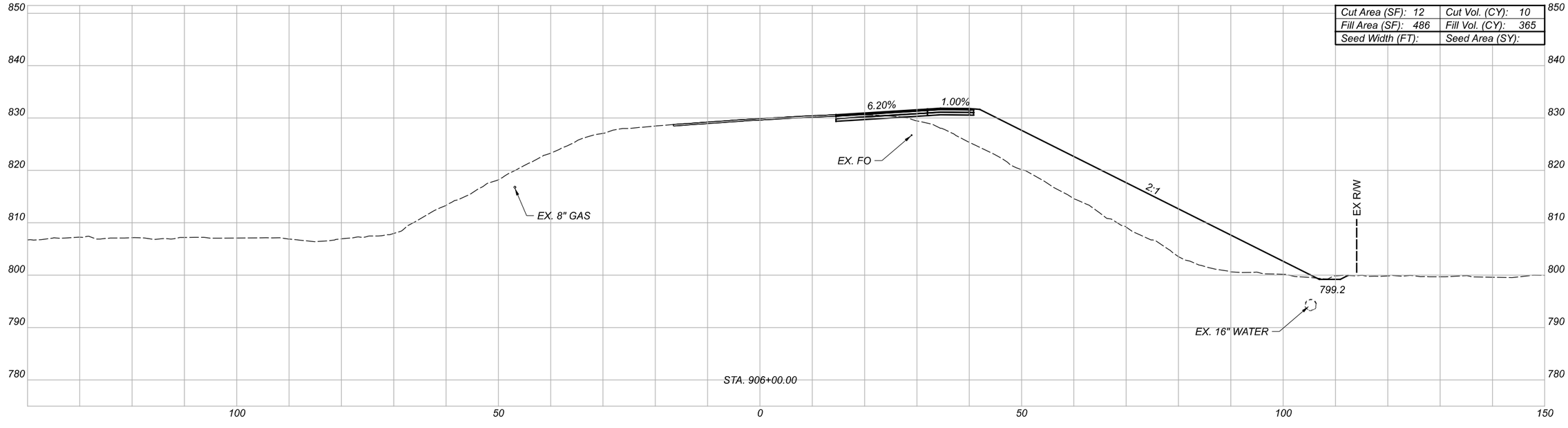
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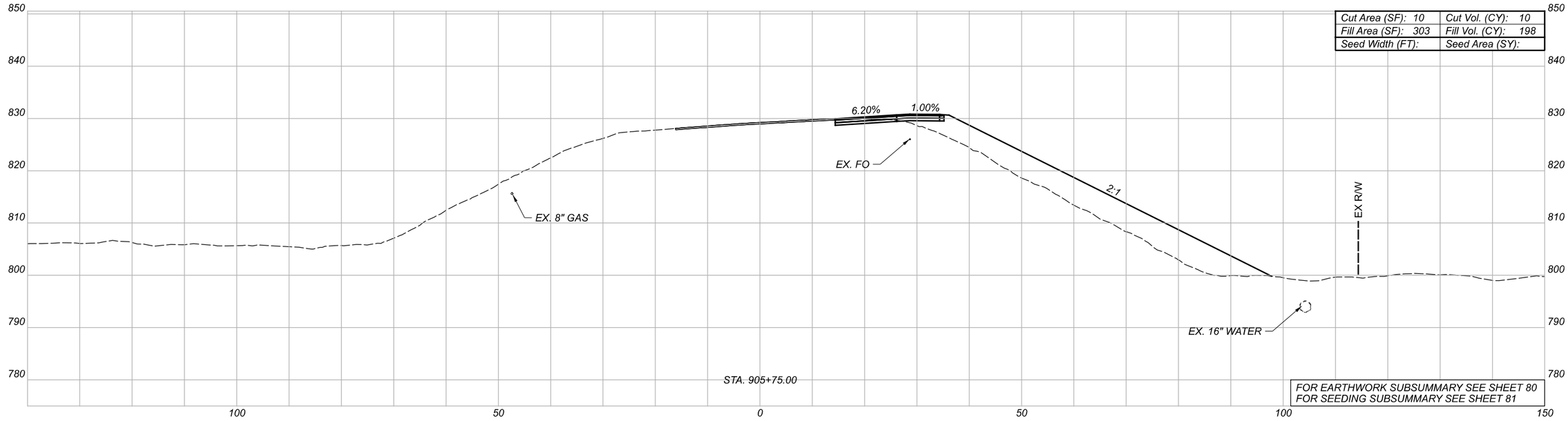
DESIGNER
JO

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 256 TOTAL 436





CROSS SECTIONS - SR 741
STA. 905+75.00 TO STA. 906+00.00

WAR-63-0.83

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DESIGN AGENCY
JACOBS

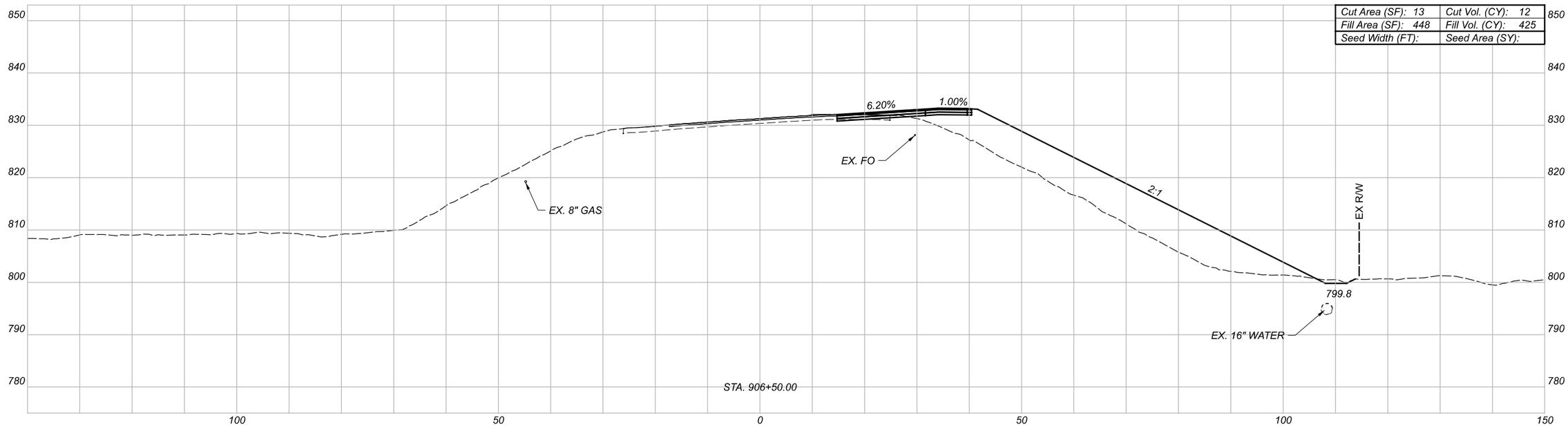
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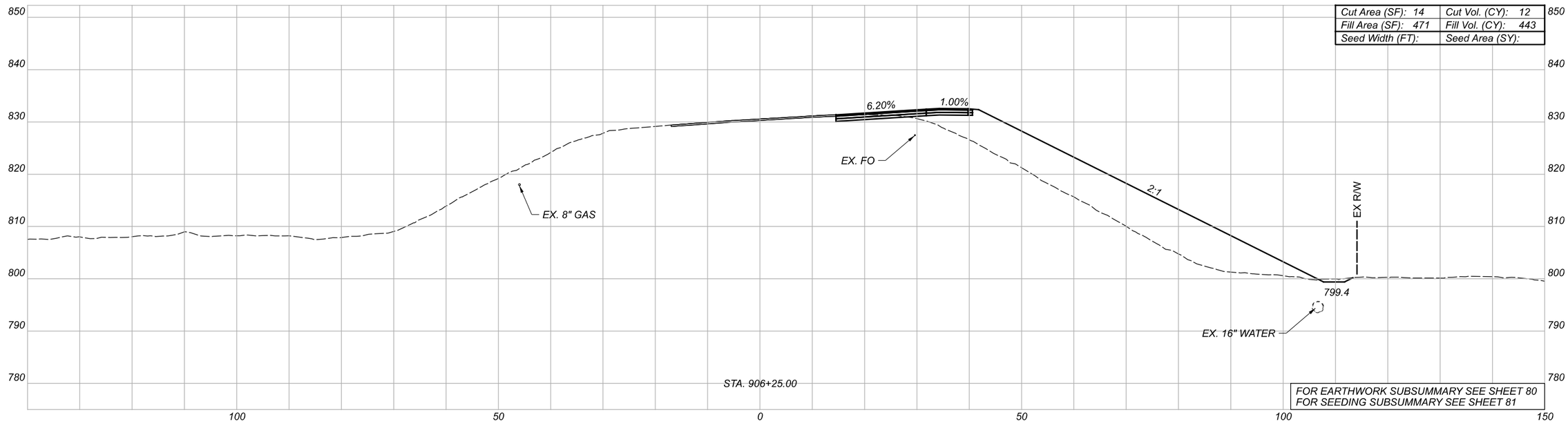
REVIEWER
RN 08/22/23

PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
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SHEET 257 TOTAL 436





CROSS SECTIONS - SR 741
STA. 906+25.00 TO STA. 906+50.00

WAR-63-0.83

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Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
JACOBS

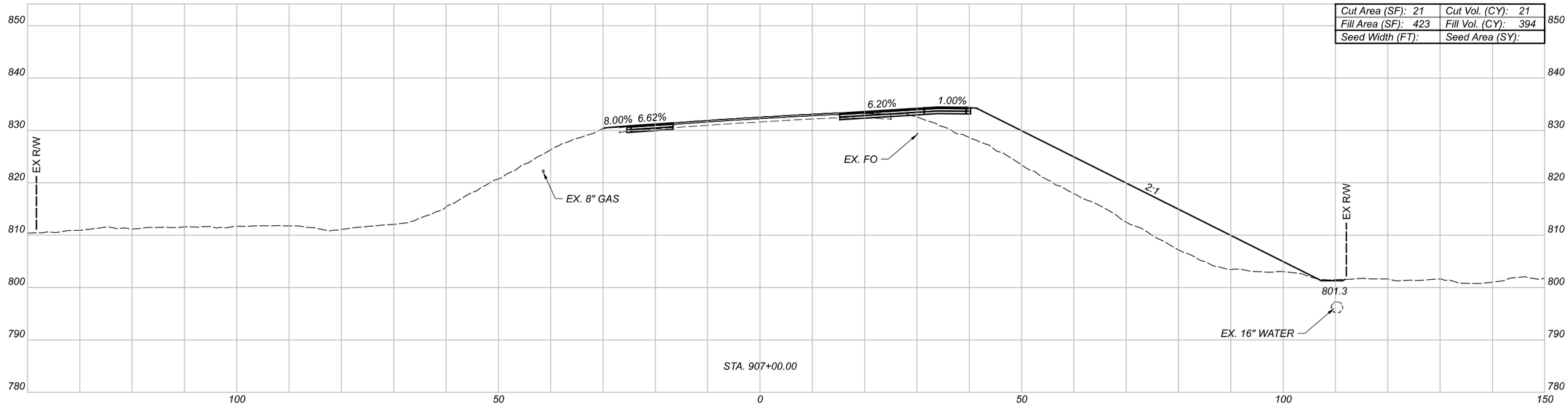
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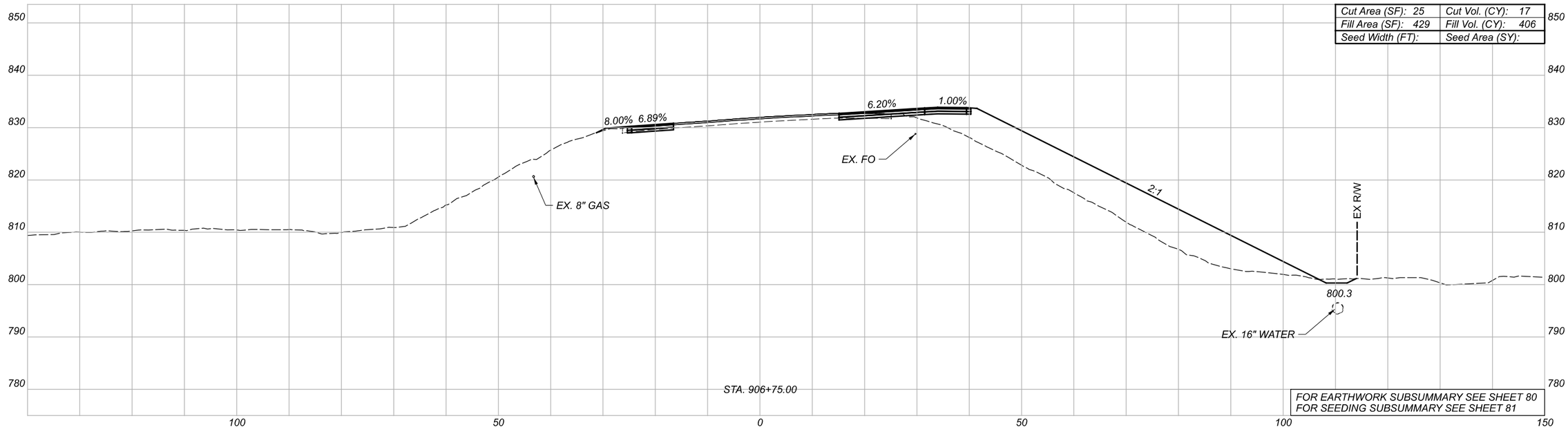
REVIEWER
RN 08/22/23

PROJECT ID
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SHEET	TOTAL
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CROSS SECTIONS - SR 741
STA. 906+75.00 TO STA. 907+00.00

DESIGN AGENCY
JACOBS

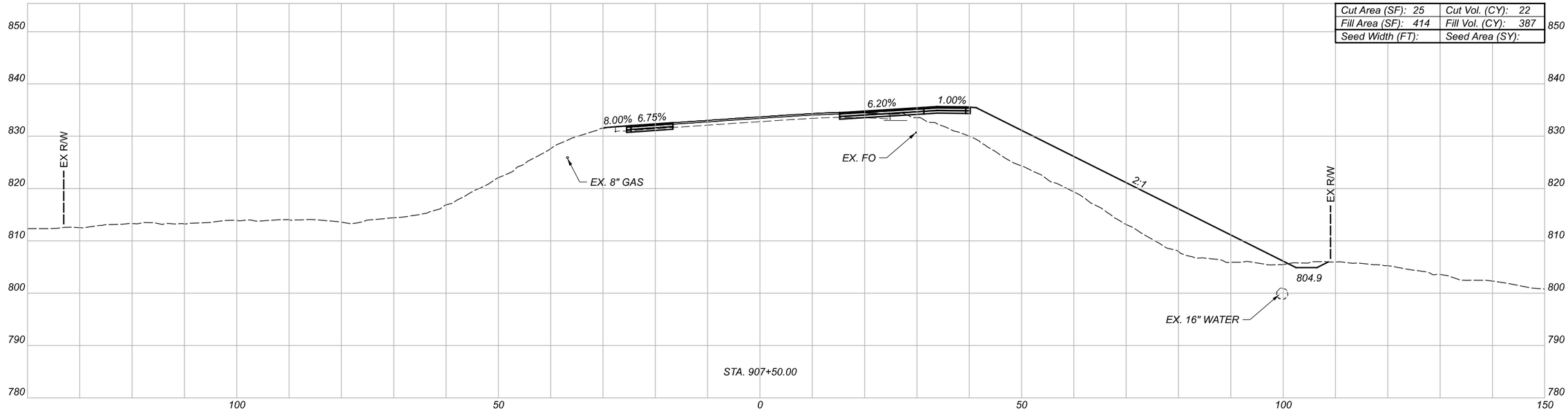
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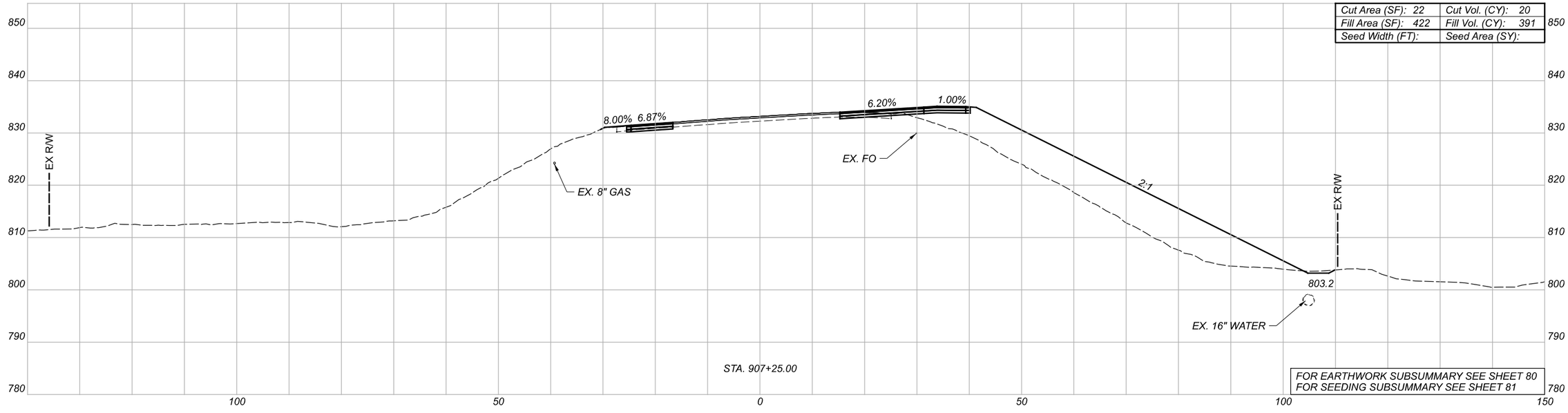
REVIEWER
RN 08/22/23

PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET 259 TOTAL 436





CROSS SECTIONS - SR 741
STA. 907+25.00 TO STA. 907+50.00

WAR-63-0.83

MODEL: CLP_SR74IF - 907+25.00 [Sheet] PAPERSIZE: 17x11(in) DATE: 8/23/2023 TIME: 3:32:31 PM USER: Tahir.Sondo@Jacobs.com
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DESIGN AGENCY
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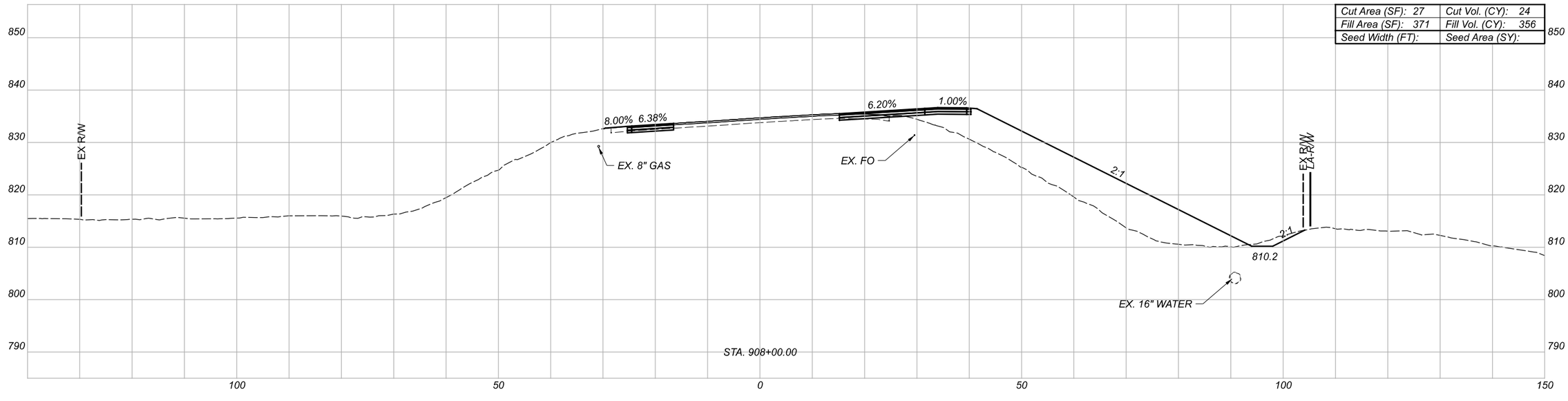
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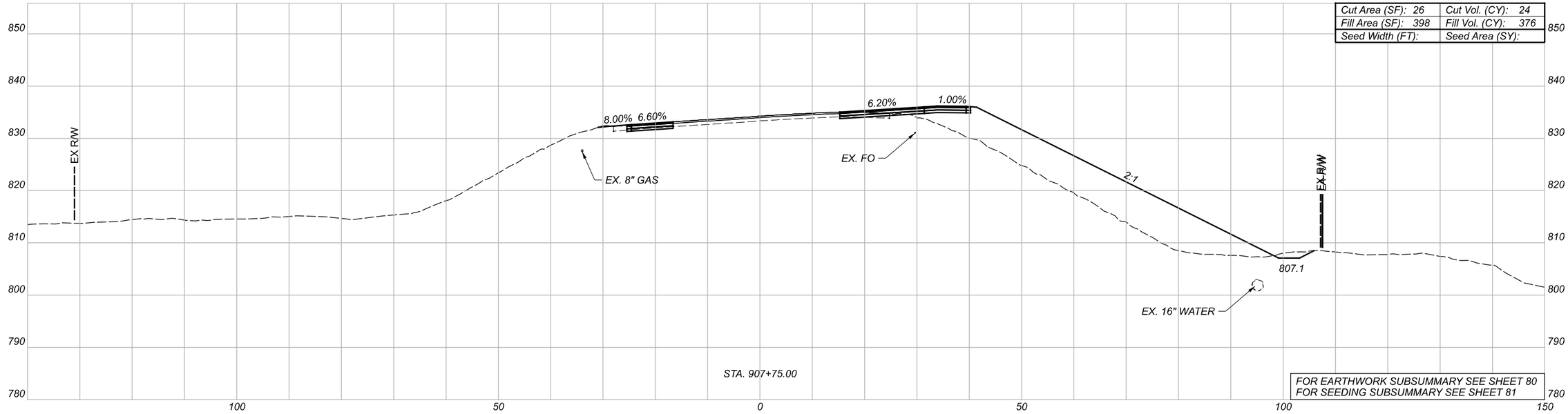
REVIEWER
RN 08/22/23

PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
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SHEET 260 TOTAL 436





CROSS SECTIONS - SR 741
STA. 907+75.00 TO STA. 908+00.00

WAR-63-0.83

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DESIGN AGENCY
JACOBS

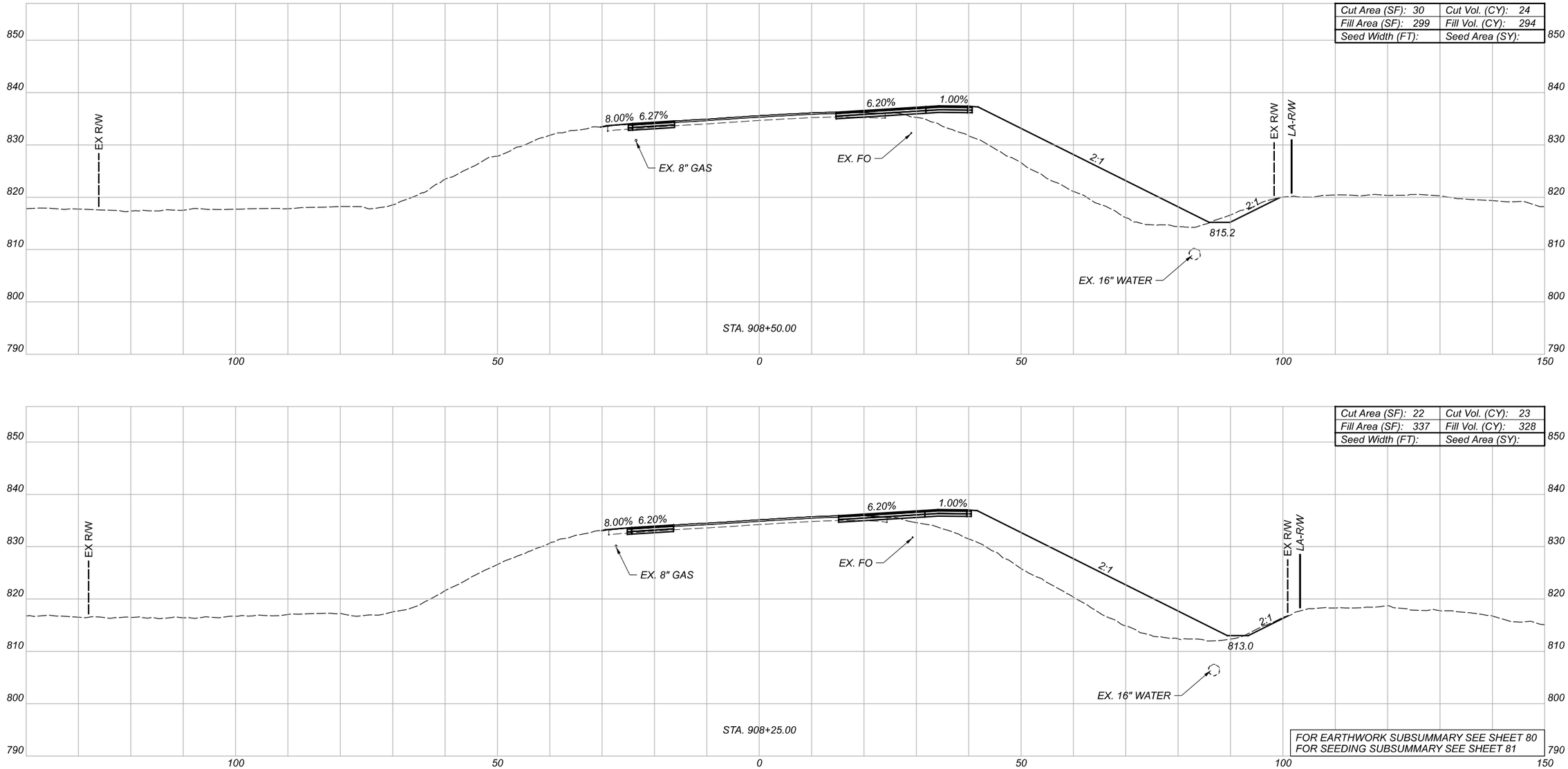
DESIGNER
JO

REVIEWER
RN 08/22/23

PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET 261 TOTAL 436



CROSS SECTIONS - SR 741
STA. 908+25.00 TO STA. 908+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

PROJECT ID
112121

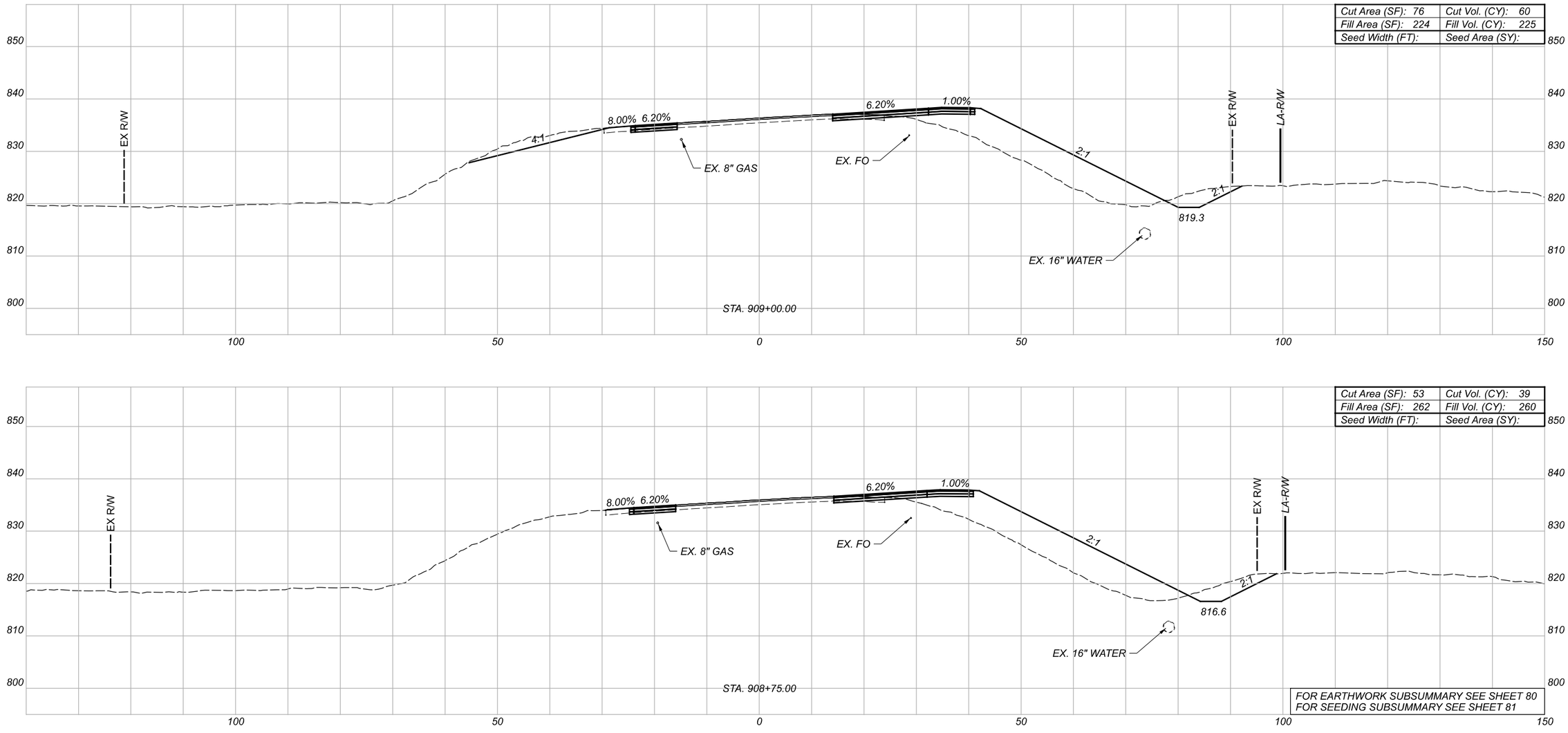
Sheet Totals		
Seeding	Cut	Fill
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SHEET 262 TOTAL 436

WAR-63-0.83

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WAR-63-0.83

CROSS SECTIONS - SR 741
STA. 908+75.00 TO STA. 909+00.00

DESIGN AGENCY
JACOBS

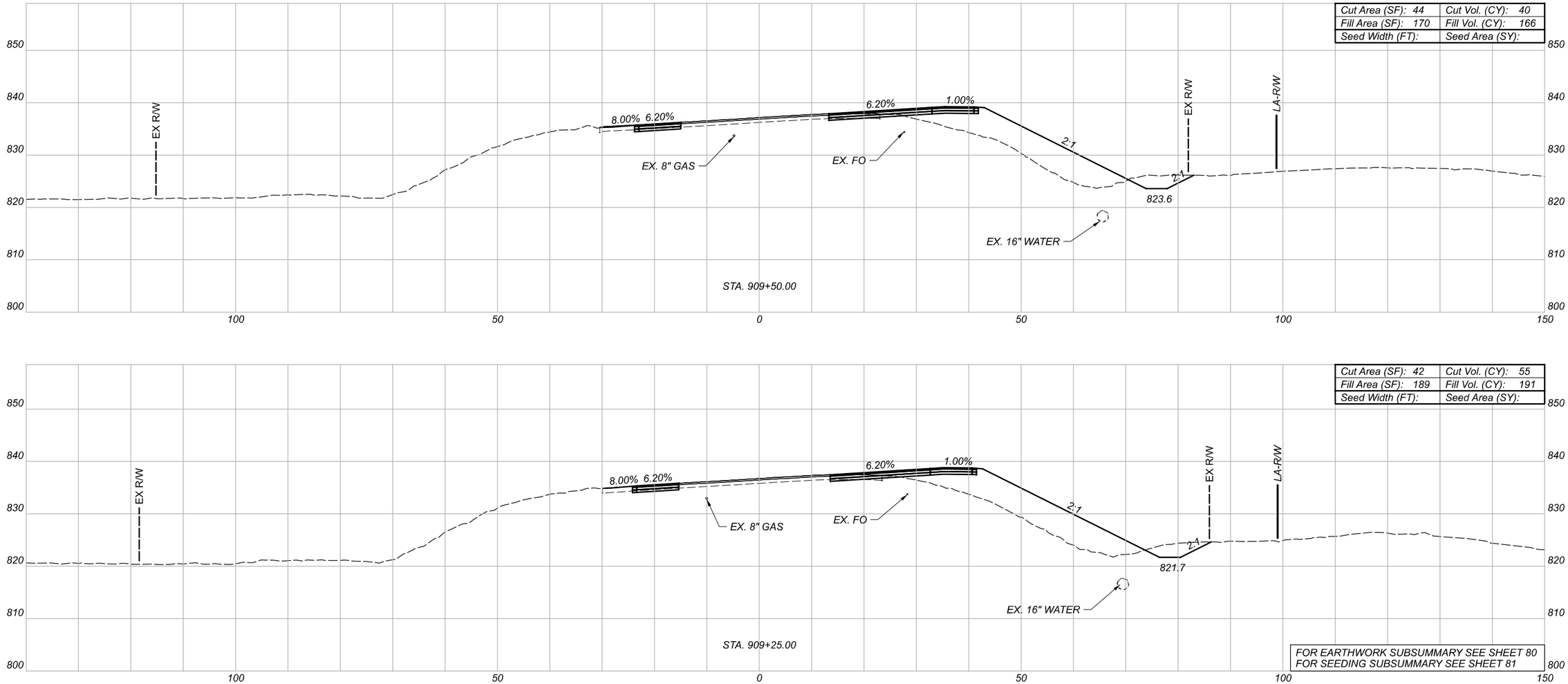
DESIGNER	REVIEWER	PROJECT ID
JO	RN 08/22/23	112121

Sheet Totals		
Seeding	Cut	Fill
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SHEET	TOTAL
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WAR-63-0.83



CROSS SECTIONS - SR 741
STA. 909+25.00 TO STA. 909+50.00

DESIGN AGENCY
JACOBS

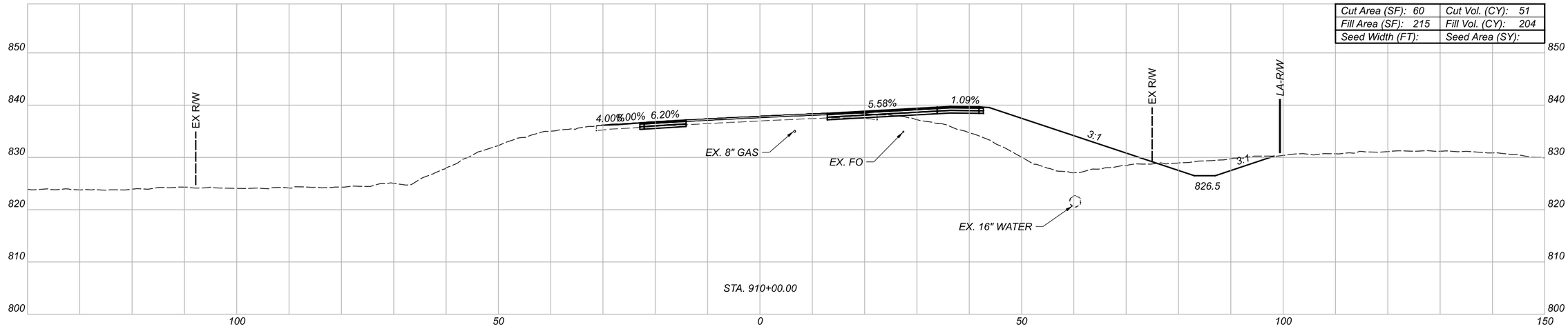
DESIGNER
JO

REVIEWER
RN 08/22/23

PROJECT ID
112121

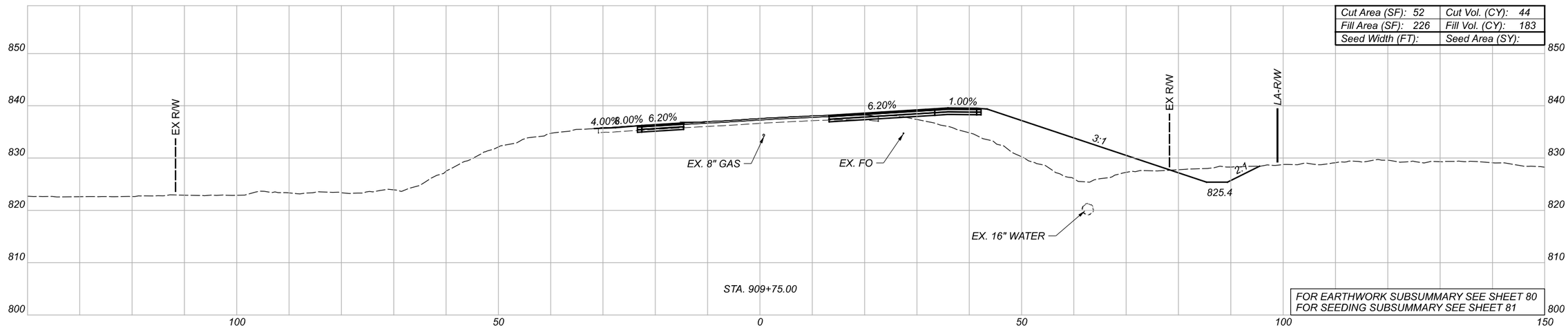
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Seeding	Cut	Fill
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SHEET 264 TOTAL 436



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Fill Area (SF): 215	Fill Vol. (CY): 204
Seed Width (FT):	Seed Area (SY):

STA. 910+00.00



Cut Area (SF): 52	Cut Vol. (CY): 44
Fill Area (SF): 226	Fill Vol. (CY): 183
Seed Width (FT):	Seed Area (SY):

STA. 909+75.00

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 909+75.00 TO STA. 910+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

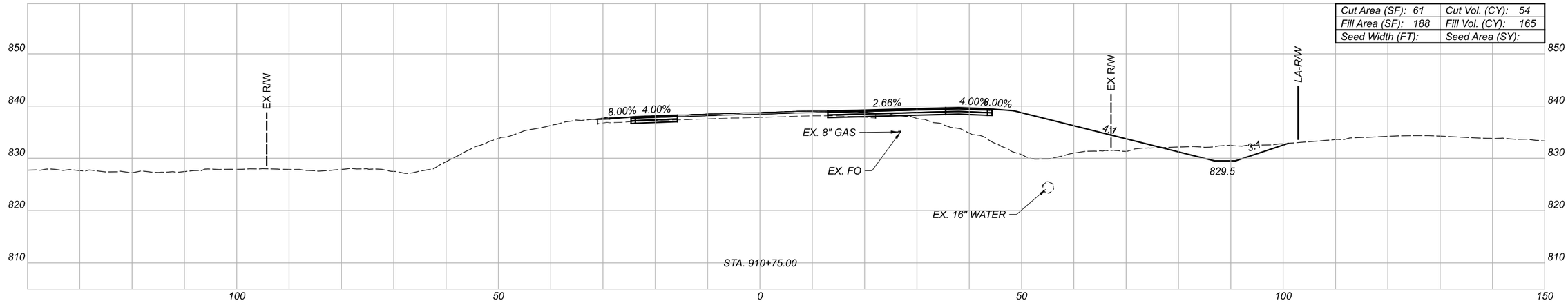
PROJECT ID
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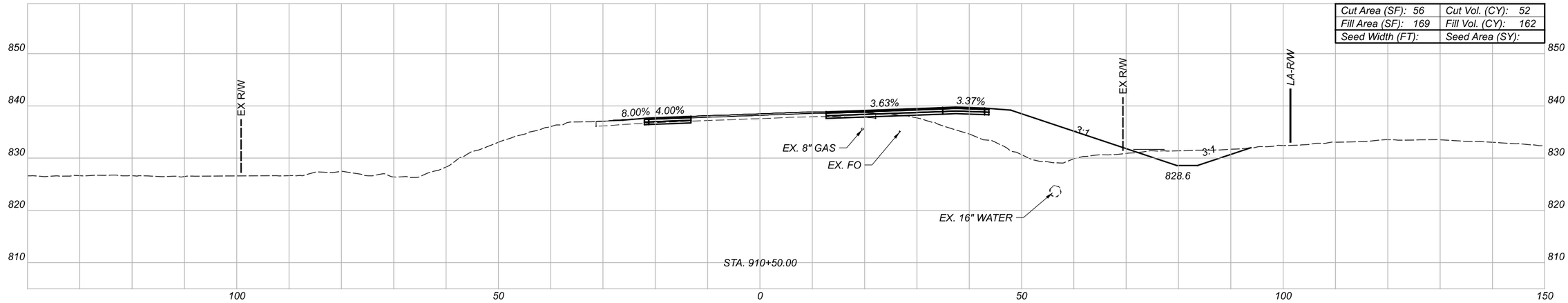
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Seeding	Cut	Fill
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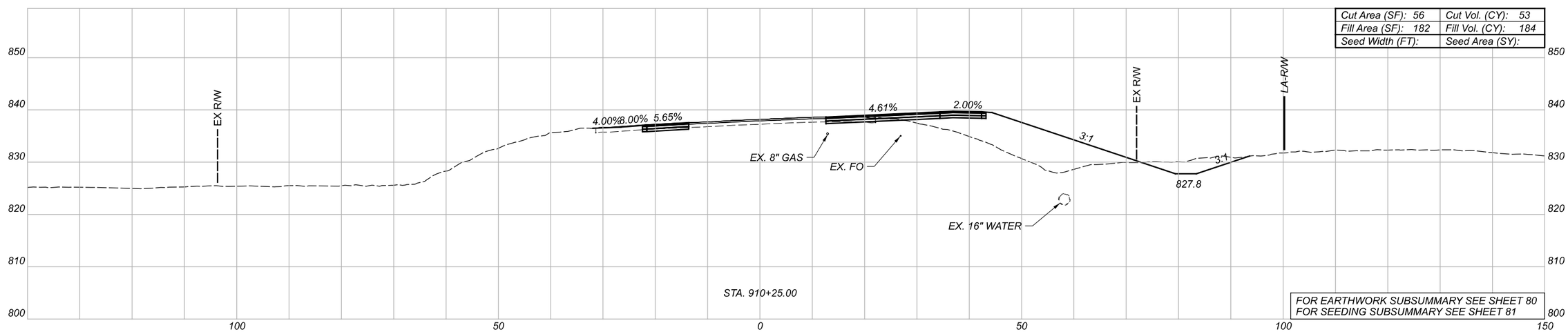
SHEET 265 TOTAL 436

WAR-63-0.83

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CROSS SECTIONS - SR 741
STA. 910+25.00 TO STA. 910+75.00

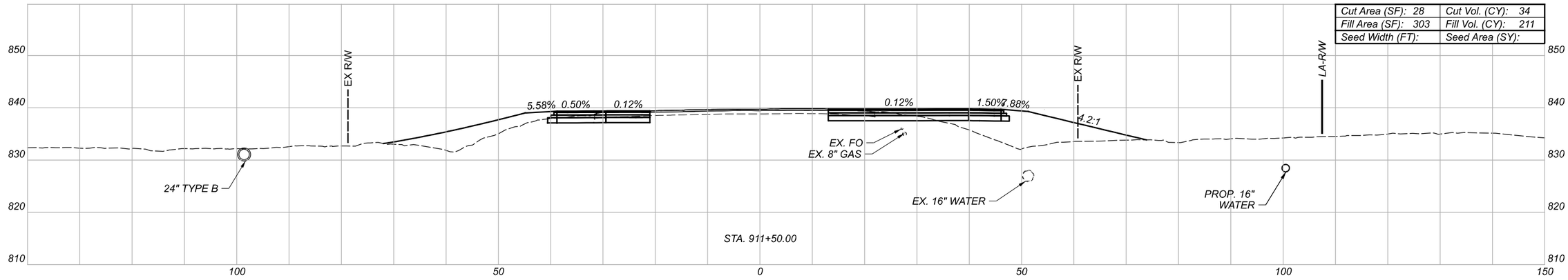
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DESIGNER	JO
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	266
TOTAL	436

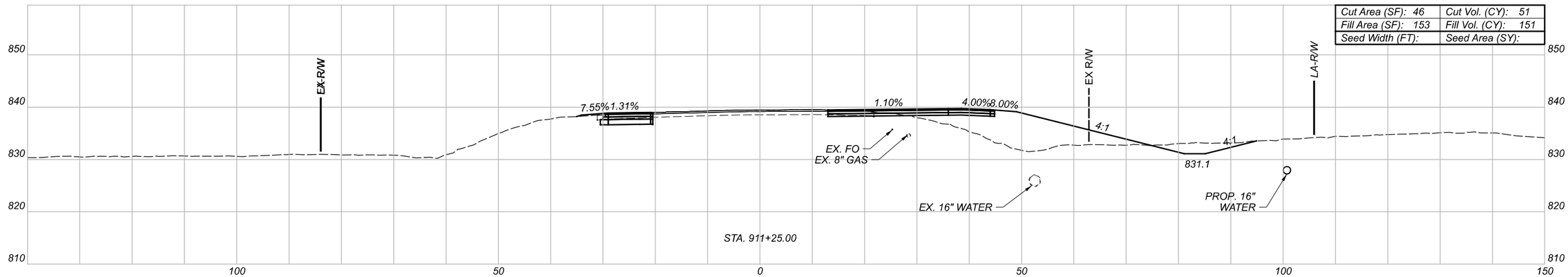
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Seeding	Cut	Fill
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WAR-63-0.83

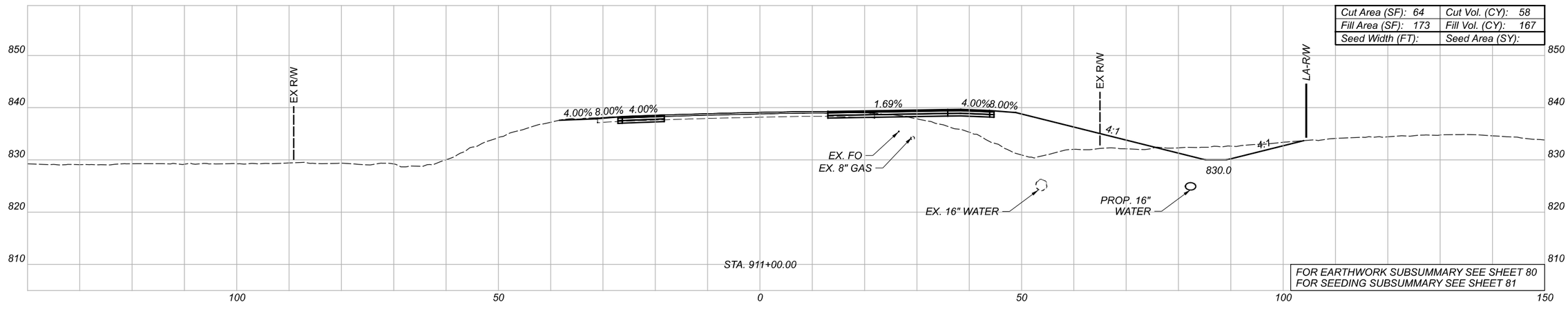
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pw:\\ProjectWiseAMER.Jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS002.dgn



Cut Area (SF): 28	Cut Vol. (CY): 34
Fill Area (SF): 303	Fill Vol. (CY): 211
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 46	Cut Vol. (CY): 51
Fill Area (SF): 153	Fill Vol. (CY): 151
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 64	Cut Vol. (CY): 58
Fill Area (SF): 173	Fill Vol. (CY): 167
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 911+00.00 TO STA. 911+50.00

WAR-63-0.83

MODEL: CLP_SR74IF - 911+00.00 [Sheet] PAPERSIZE: 11x17(in.) DATE: 8/23/2023 TIME: 3:36:32 PM USER: Tahir.Sondo@jacobs.com
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DESIGN AGENCY
JACOBS

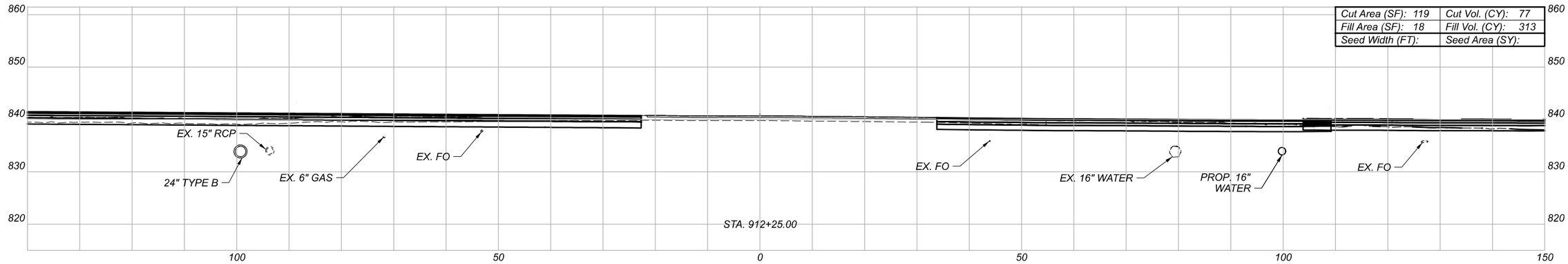
DESIGNER
JO

REVIEWER
RN 08/22/23

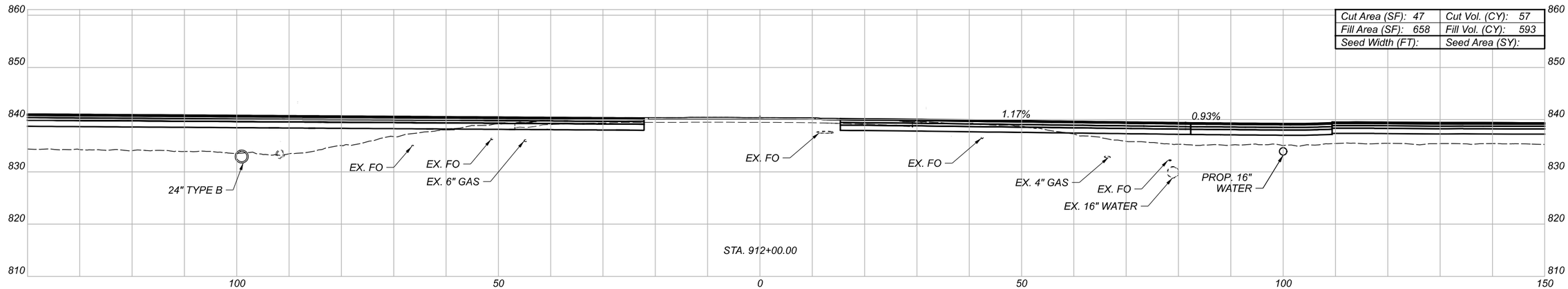
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
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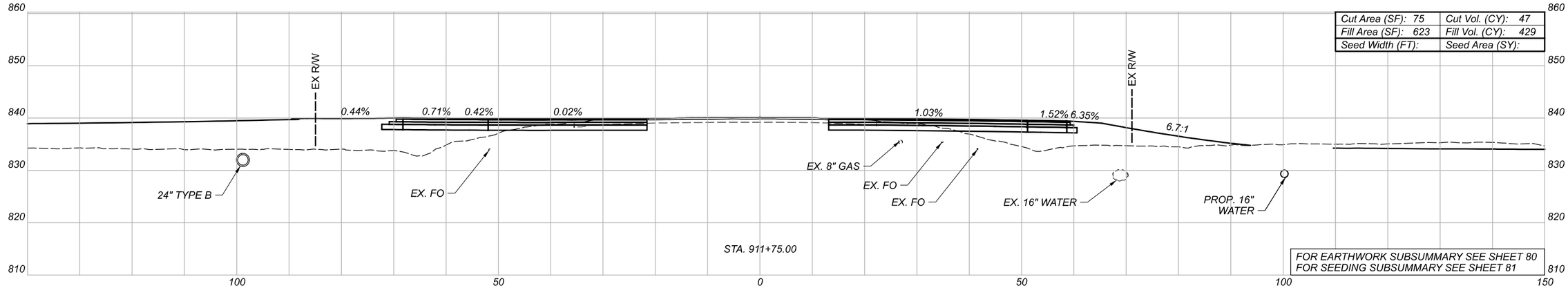
SHEET 267 TOTAL 436



Cut Area (SF): 119	Cut Vol. (CY): 77
Fill Area (SF): 18	Fill Vol. (CY): 313
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 47	Cut Vol. (CY): 57
Fill Area (SF): 658	Fill Vol. (CY): 593
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 75	Cut Vol. (CY): 47
Fill Area (SF): 623	Fill Vol. (CY): 429
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 911+75.00 TO STA. 912+25.00

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

DESIGNER
JO

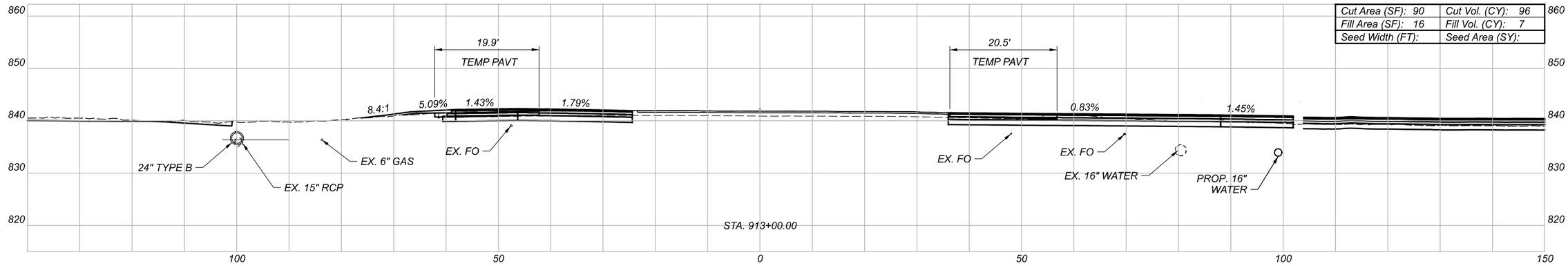
REVIEWER
RN 08/22/23

PROJECT ID
112121

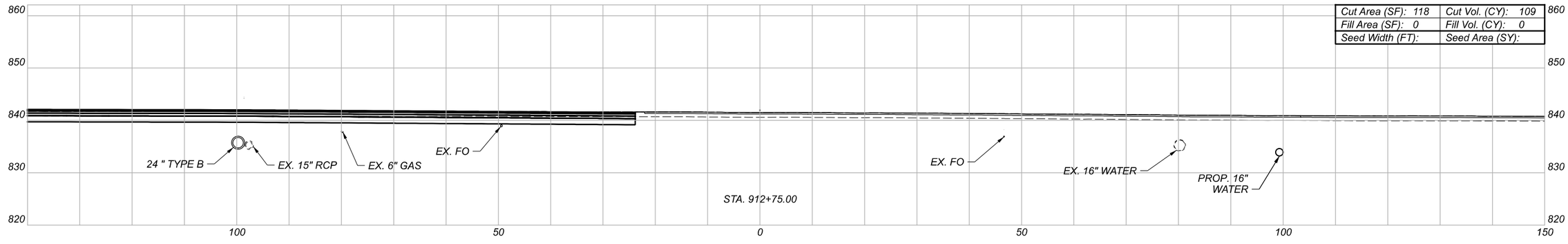
SHEET 268 TOTAL 436

WAR-63-0.83

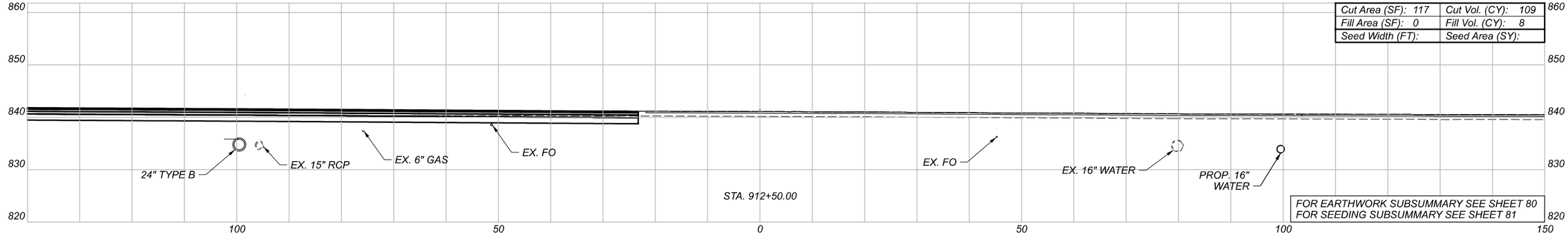
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS002.dgn



Cut Area (SF): 90	Cut Vol. (CY): 96
Fill Area (SF): 16	Fill Vol. (CY): 7
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 118	Cut Vol. (CY): 109
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 117	Cut Vol. (CY): 109
Fill Area (SF): 0	Fill Vol. (CY): 8
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 912+50.00 TO STA. 913+00.00

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

DESIGNER
JO

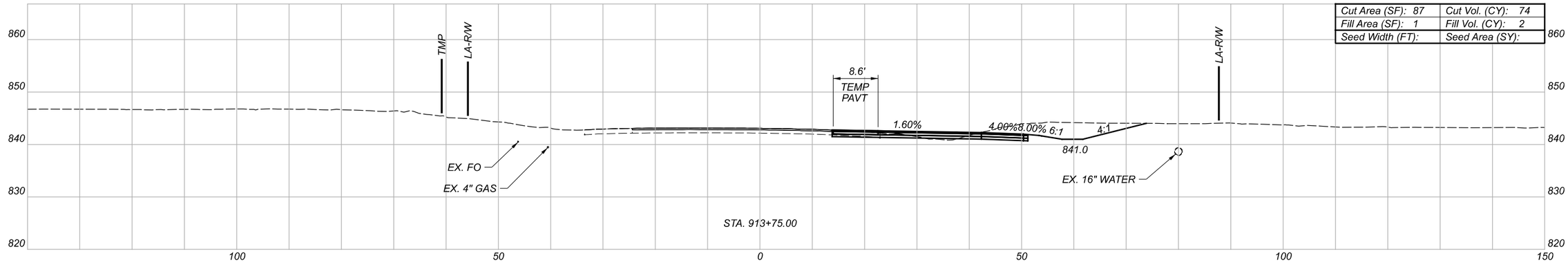
REVIEWER
RN 08/22/23

PROJECT ID
112121

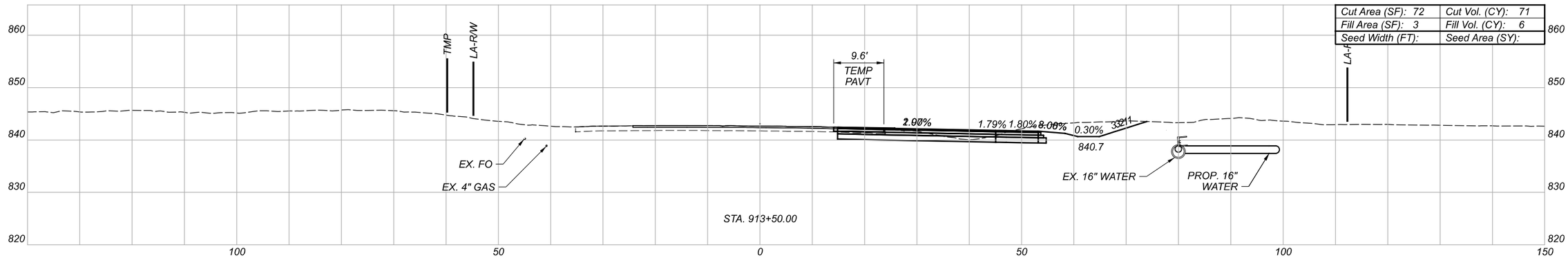
SHEET 269 TOTAL 436

WAR-63-0.83

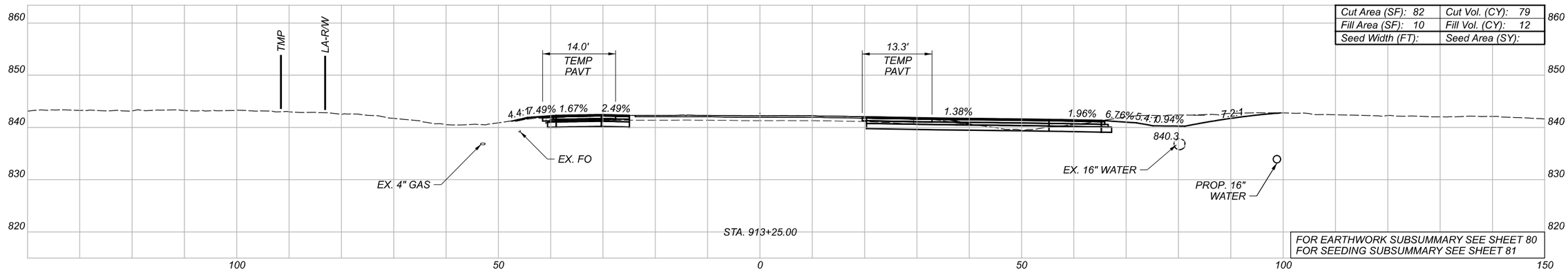
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pw:\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS002.dgn



Cut Area (SF): 87	Cut Vol. (CY): 74
Fill Area (SF): 1	Fill Vol. (CY): 2
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 72	Cut Vol. (CY): 71
Fill Area (SF): 3	Fill Vol. (CY): 6
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 82	Cut Vol. (CY): 79
Fill Area (SF): 10	Fill Vol. (CY): 12
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 913+25.00 TO STA. 913+75.00

WAR-63-0.83

MODEL: CLP_SR74IF - 913+25.00 [Sheet1] PAPERSIZE: 17x11(in) DATE: 8/23/2023 TIME: 3:40:04 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS002.dgn

DESIGN AGENCY
JACOBS

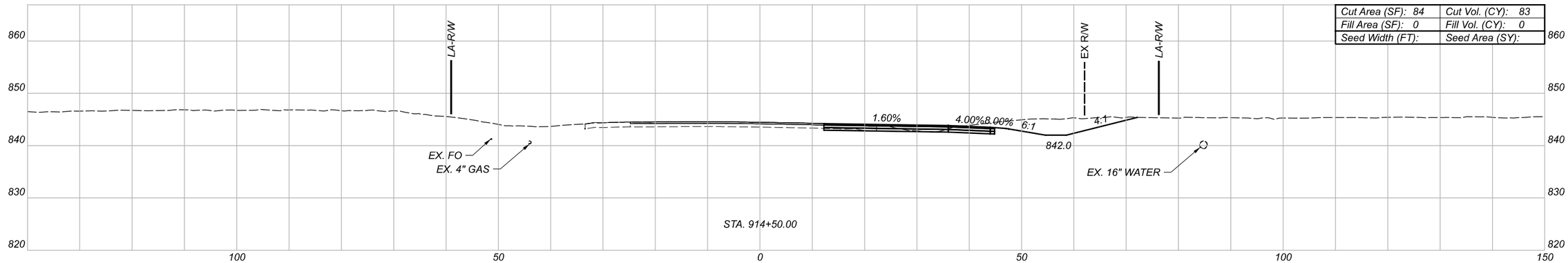
DESIGNER
JO

REVIEWER
RN 08/22/23

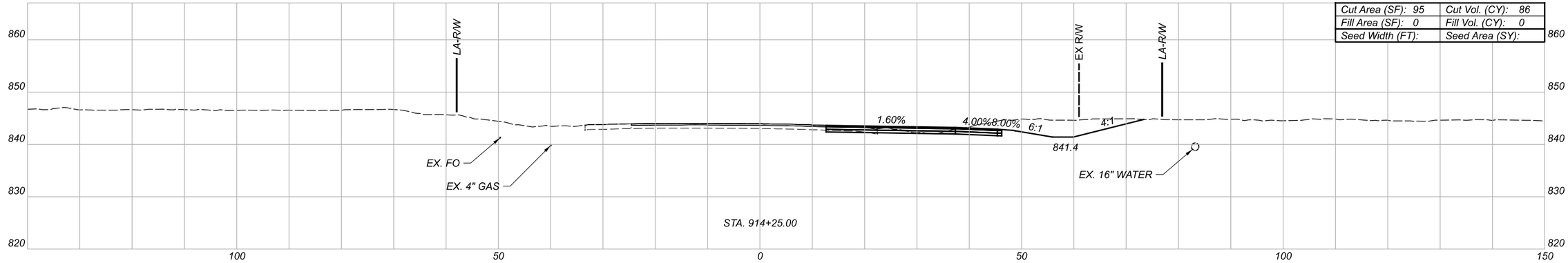
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
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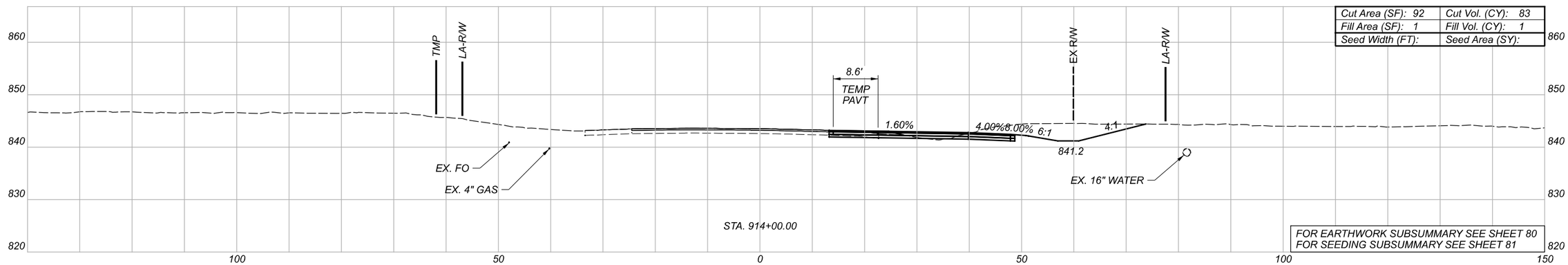
SHEET 270 TOTAL 436



Cut Area (SF): 84	Cut Vol. (CY): 83
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 95	Cut Vol. (CY): 86
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 92	Cut Vol. (CY): 83
Fill Area (SF): 1	Fill Vol. (CY): 1
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 914+00.00 TO STA. 914+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

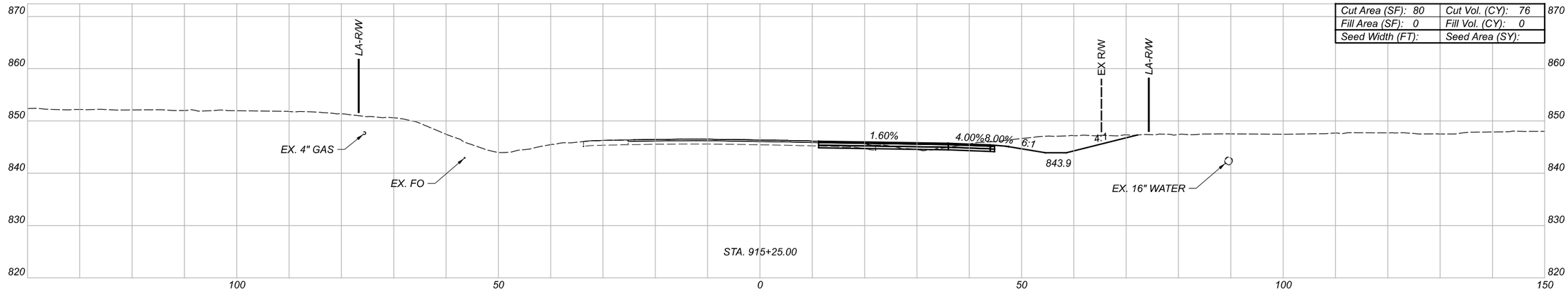
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
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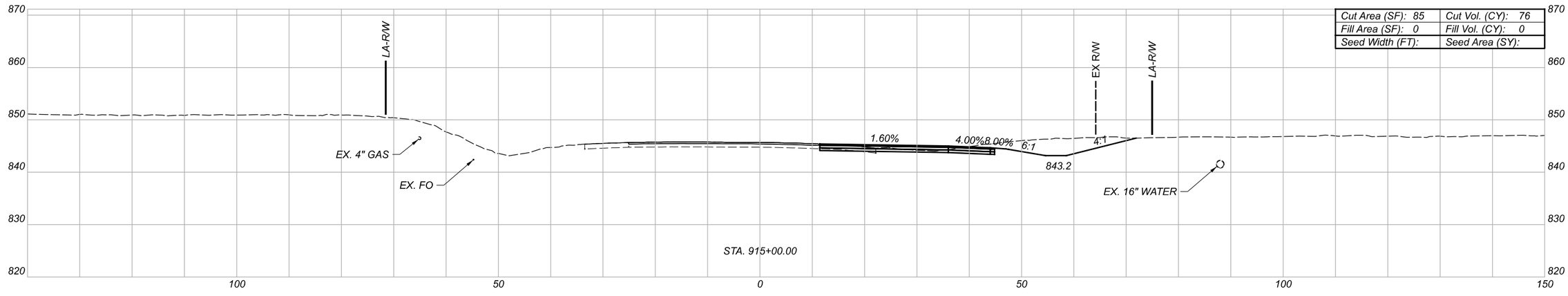
SHEET 271 TOTAL 436

WAR-63-0.83

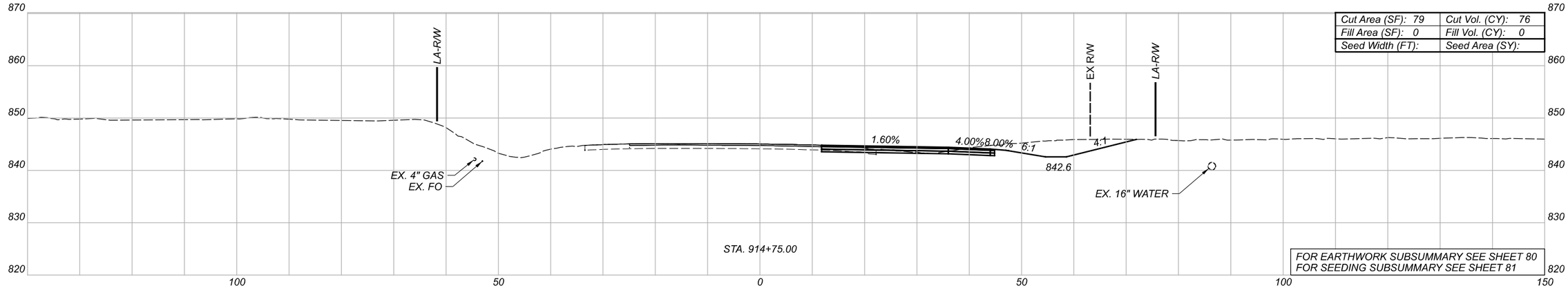
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS002.dgn



Cut Area (SF): 80	Cut Vol. (CY): 76
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 85	Cut Vol. (CY): 76
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 79	Cut Vol. (CY): 76
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 914+75.00 TO STA. 915+25.00

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

DESIGNER
JO

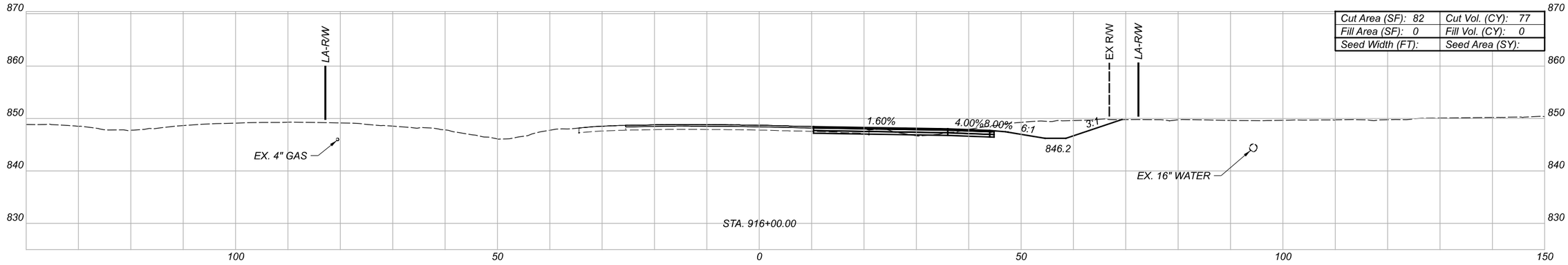
REVIEWER
RN 08/22/23

PROJECT ID
112121

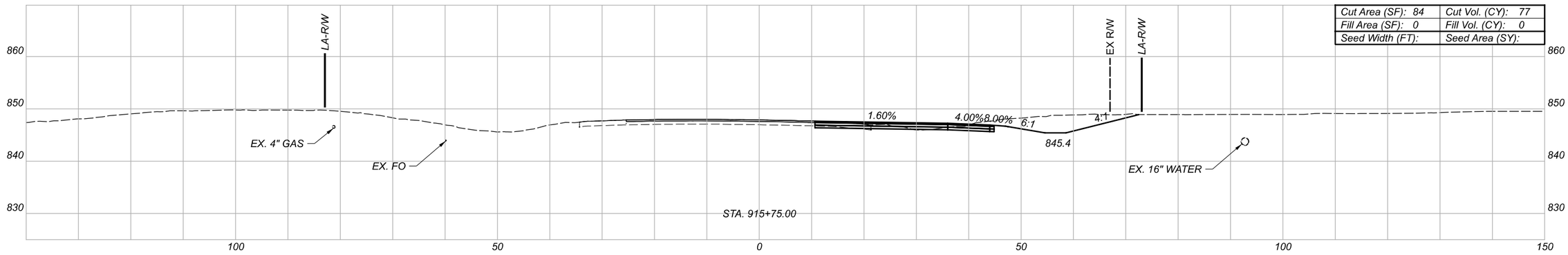
SHEET 272 TOTAL 436

WAR-63-0.83

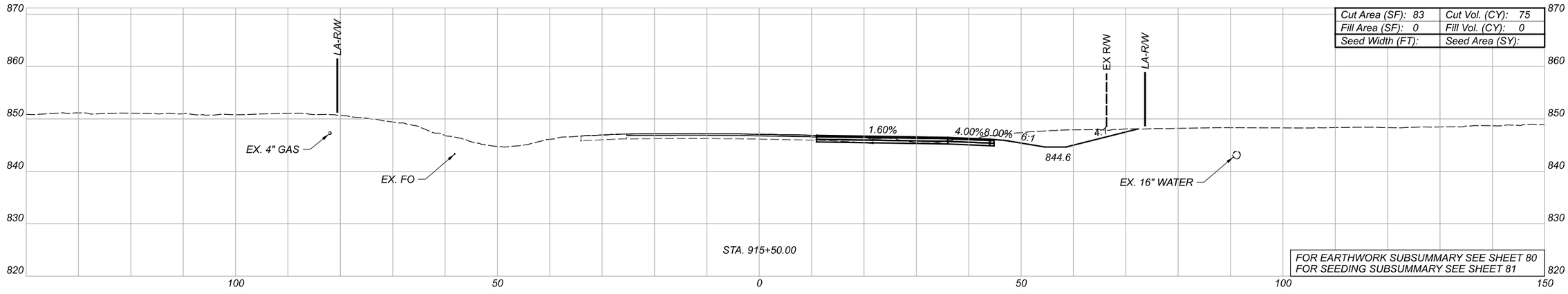
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS002.dgn



Cut Area (SF): 82	Cut Vol. (CY): 77
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 84	Cut Vol. (CY): 77
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 83	Cut Vol. (CY): 75
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 915+50.00 TO STA. 916+00.00

WAR-63-0.83

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DESIGN AGENCY
JACOBS

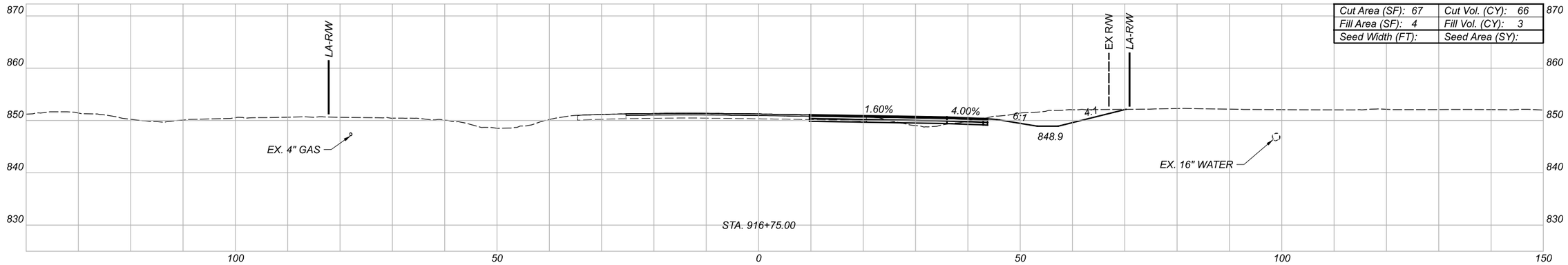
DESIGNER
JO

REVIEWER
RN 08/22/23

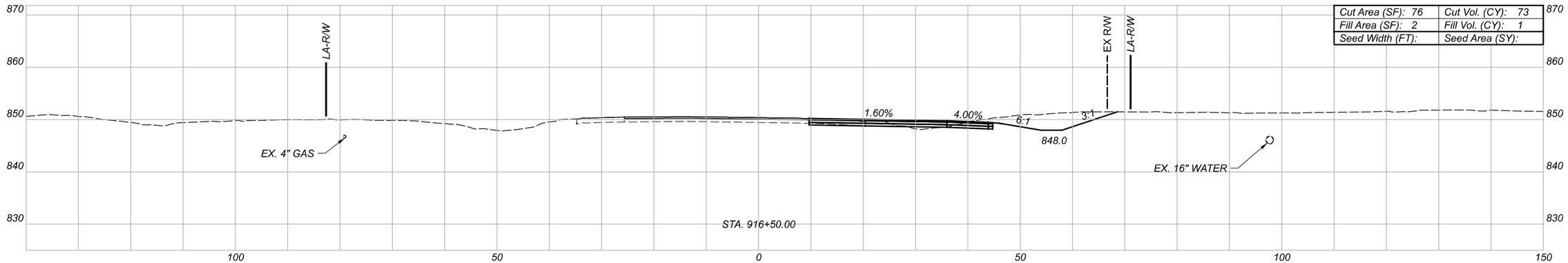
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
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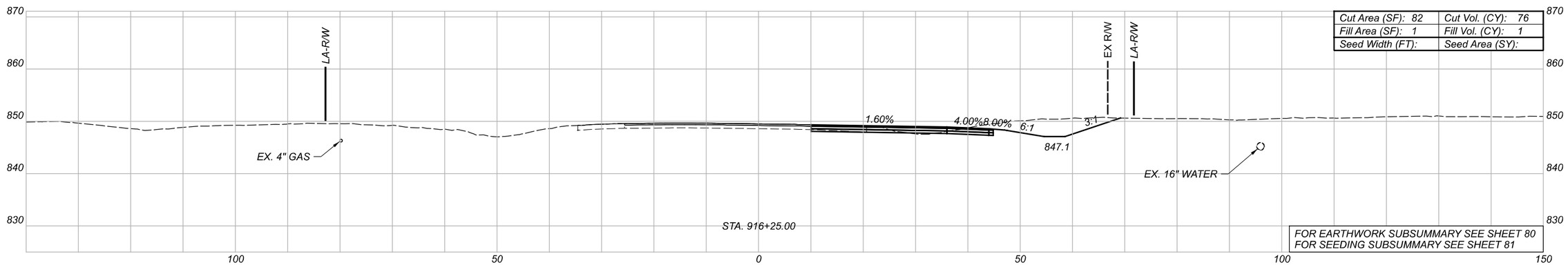
SHEET 273 TOTAL 436



Cut Area (SF): 67	Cut Vol. (CY): 66
Fill Area (SF): 4	Fill Vol. (CY): 3
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 76	Cut Vol. (CY): 73
Fill Area (SF): 2	Fill Vol. (CY): 1
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 82	Cut Vol. (CY): 76
Fill Area (SF): 1	Fill Vol. (CY): 1
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 916+25.00 TO STA. 916+75.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

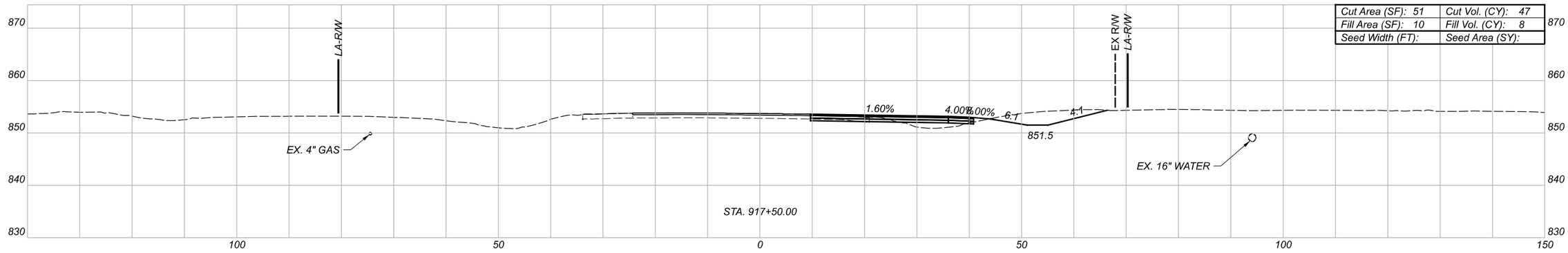
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
-	-	-

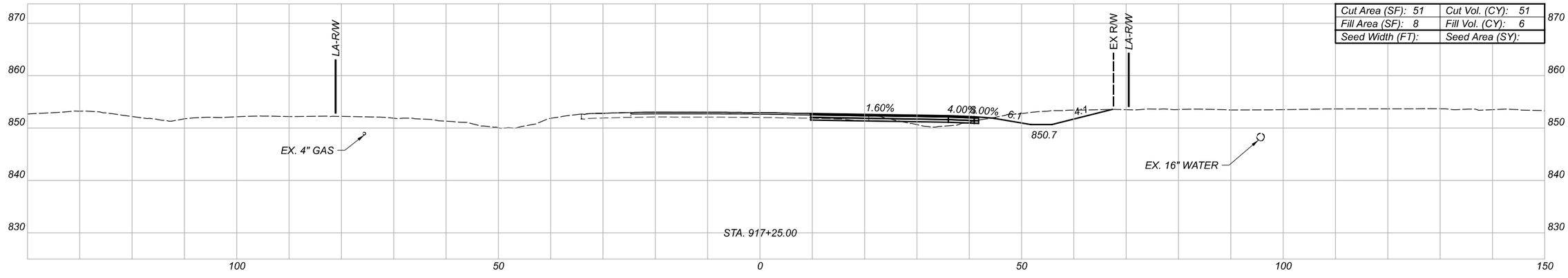
SHEET 274 TOTAL 436

WAR-63-0.83

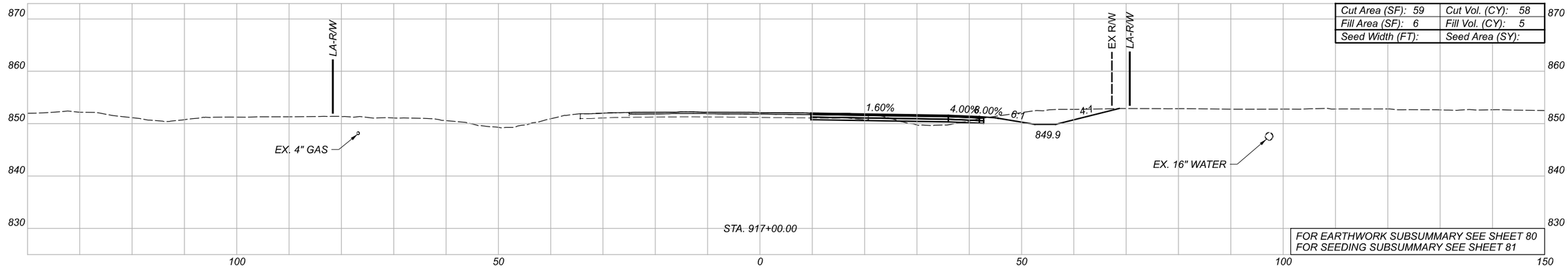
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS002.dgn



Cut Area (SF): 51	Cut Vol. (CY): 47
Fill Area (SF): 10	Fill Vol. (CY): 8
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 51	Cut Vol. (CY): 51
Fill Area (SF): 8	Fill Vol. (CY): 6
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 59	Cut Vol. (CY): 58
Fill Area (SF): 6	Fill Vol. (CY): 5
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 917+00.00 TO STA. 917+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

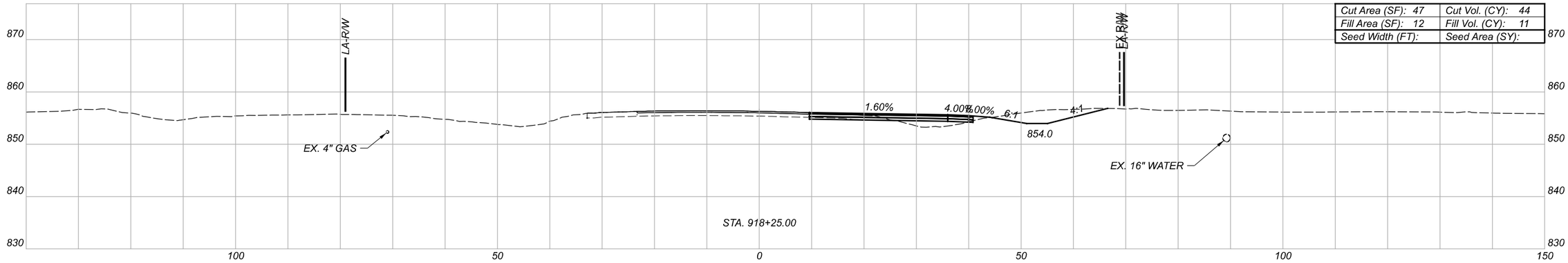
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
-	-	-

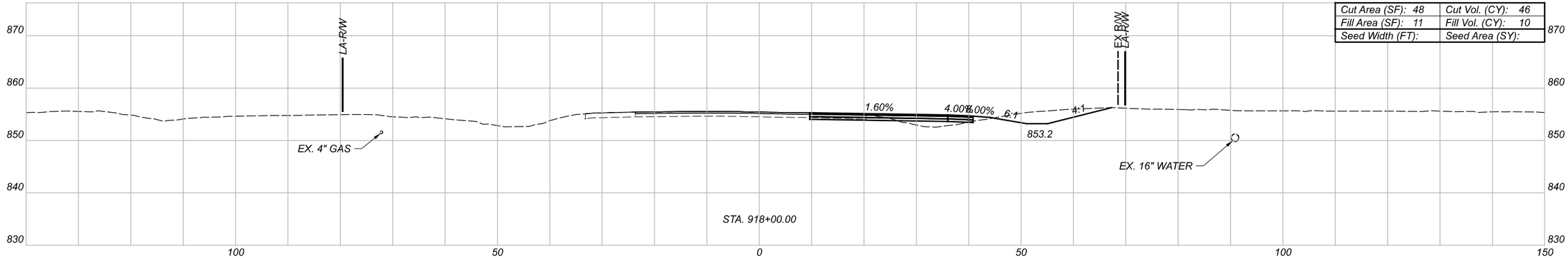
SHEET 275 TOTAL 436

WAR-63-0.83

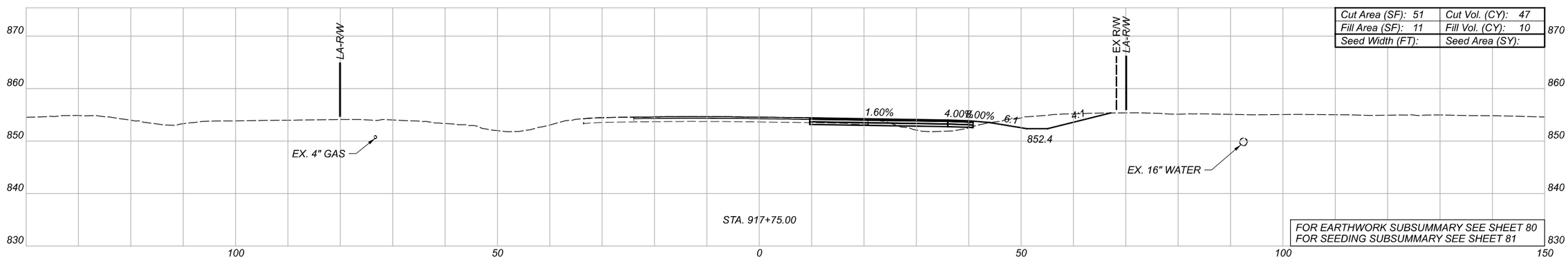
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS002.dgn



Cut Area (SF): 47	Cut Vol. (CY): 44
Fill Area (SF): 12	Fill Vol. (CY): 11
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 48	Cut Vol. (CY): 46
Fill Area (SF): 11	Fill Vol. (CY): 10
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 51	Cut Vol. (CY): 47
Fill Area (SF): 11	Fill Vol. (CY): 10
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 917+75.00 TO STA. 918+25.00

WAR-63-0.83

MODEL: CLP_SR74IF - 917+75.00 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 3:44:27 PM USER: Tahir.Sondo@Jacobs.com
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DESIGN AGENCY
JACOBS

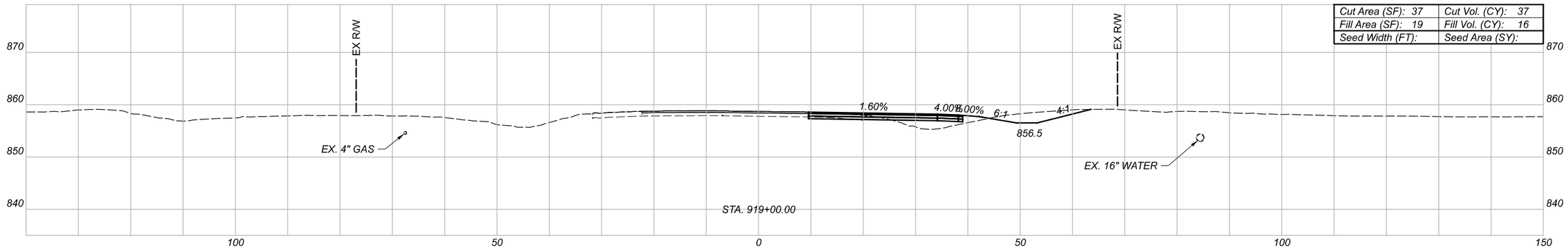
DESIGNER
JO

REVIEWER
RN 08/22/23

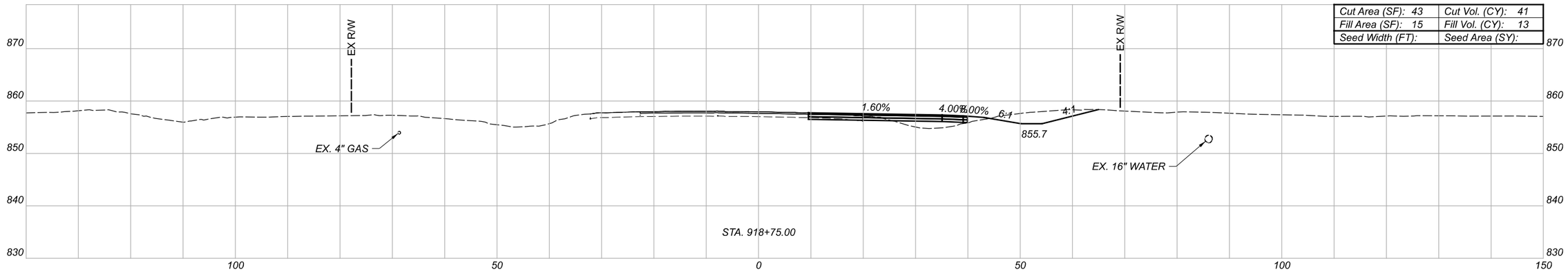
PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

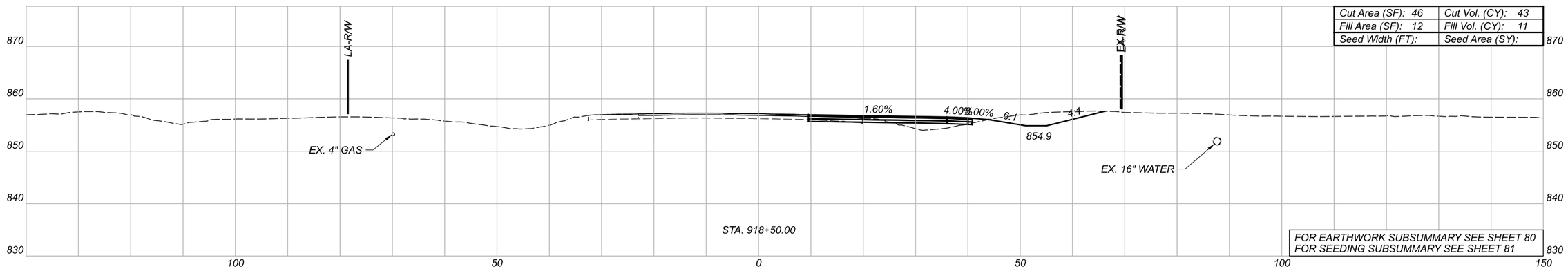
SHEET 276 TOTAL 436



Cut Area (SF): 37	Cut Vol. (CY): 37
Fill Area (SF): 19	Fill Vol. (CY): 16
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 43	Cut Vol. (CY): 41
Fill Area (SF): 15	Fill Vol. (CY): 13
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 46	Cut Vol. (CY): 43
Fill Area (SF): 12	Fill Vol. (CY): 11
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 918+50.00 TO STA. 919+00.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

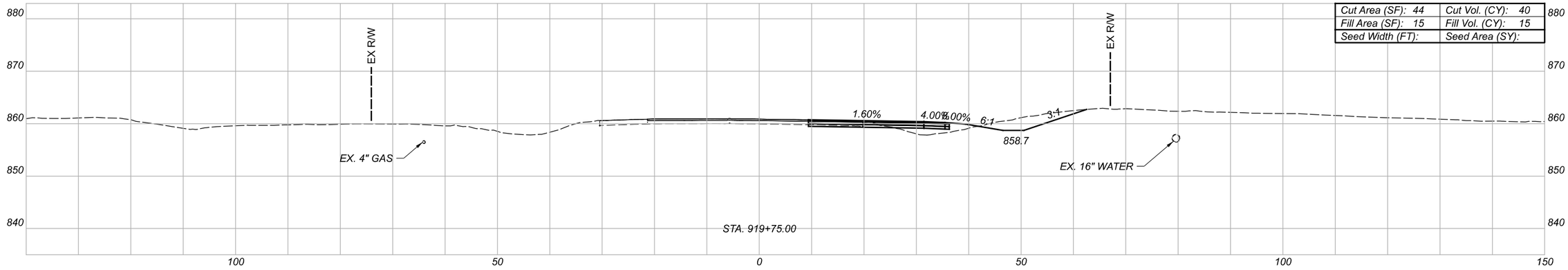
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
-	-	-

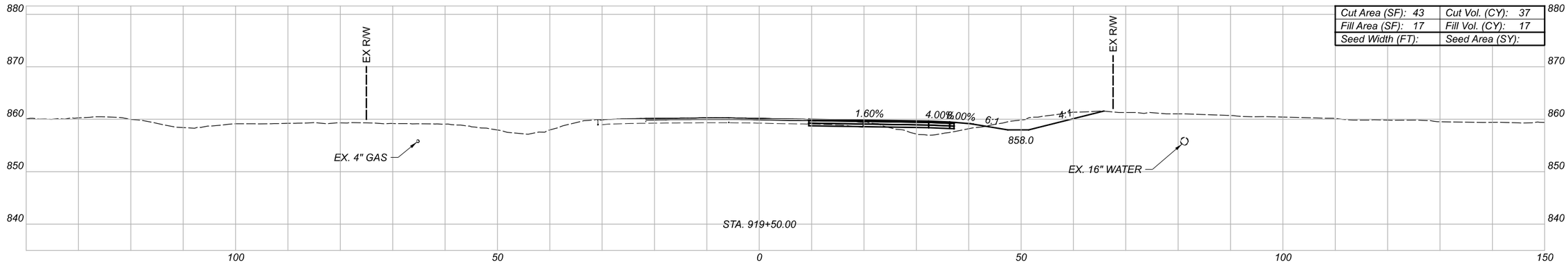
SHEET 277 TOTAL 436

WAR-63-0.83

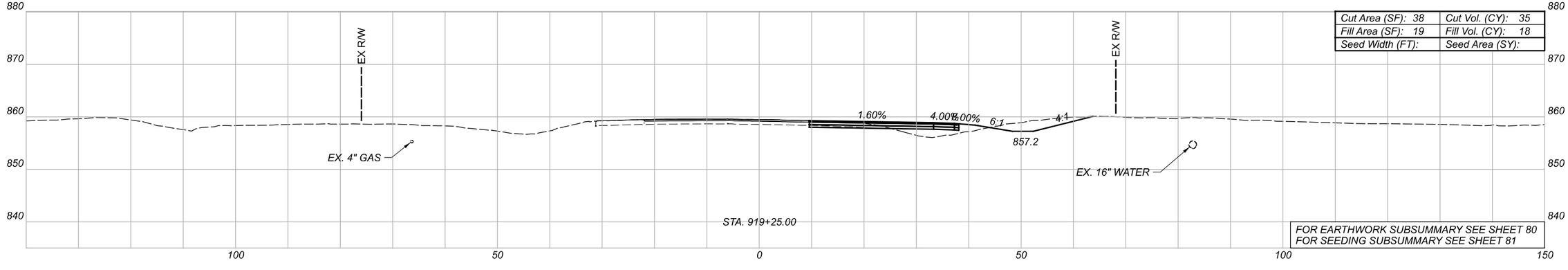
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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS002.dgn



Cut Area (SF): 44	Cut Vol. (CY): 40
Fill Area (SF): 15	Fill Vol. (CY): 15
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 43	Cut Vol. (CY): 37
Fill Area (SF): 17	Fill Vol. (CY): 17
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 38	Cut Vol. (CY): 35
Fill Area (SF): 19	Fill Vol. (CY): 18
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 919+25.00 TO STA. 919+75.00

WAR-63-0.83

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DESIGN AGENCY
JACOBS

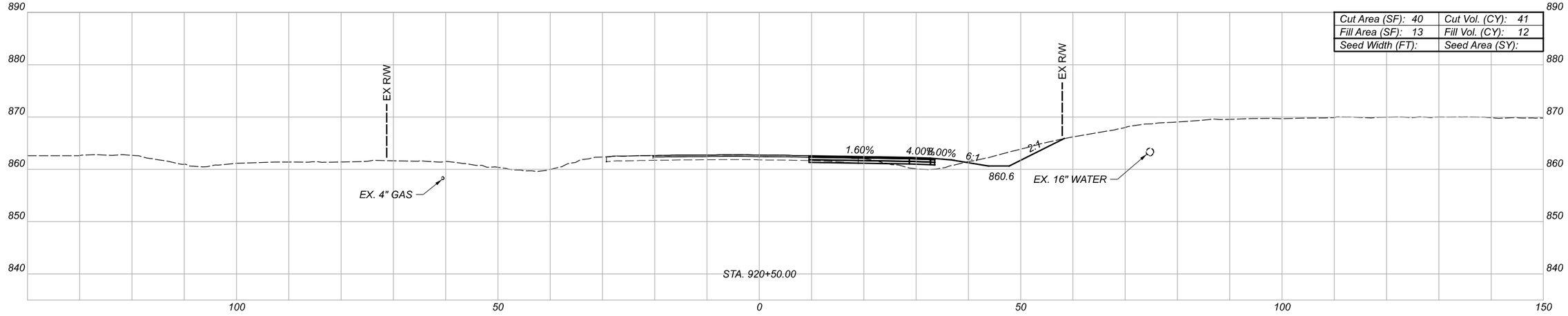
DESIGNER
JO

REVIEWER
RN 08/22/23

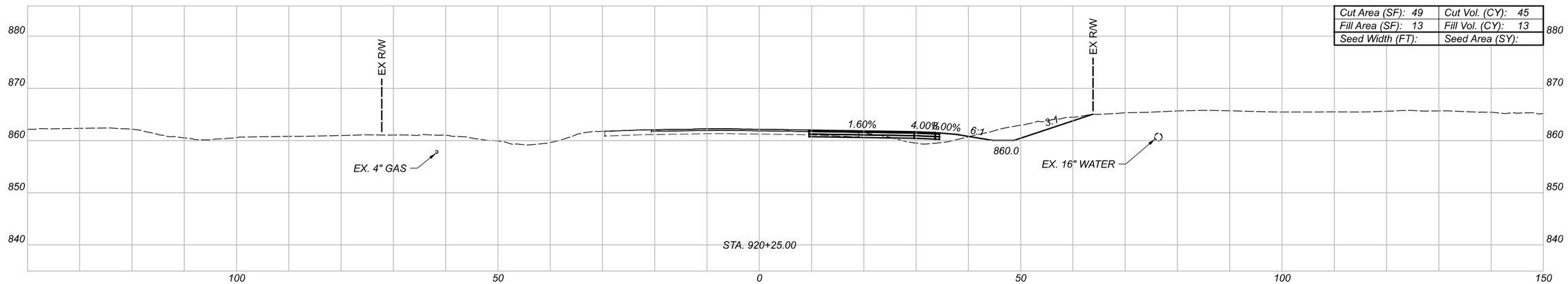
PROJECT ID
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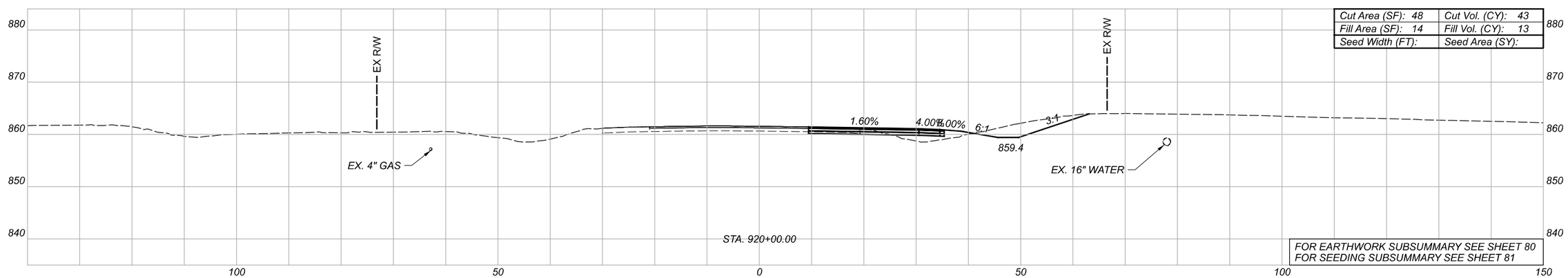
SHEET 278 TOTAL 436



Cut Area (SF): 40	Cut Vol. (CY): 41
Fill Area (SF): 13	Fill Vol. (CY): 12
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 49	Cut Vol. (CY): 45
Fill Area (SF): 13	Fill Vol. (CY): 13
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 48	Cut Vol. (CY): 43
Fill Area (SF): 14	Fill Vol. (CY): 13
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 920+00.00 TO STA. 920+50.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

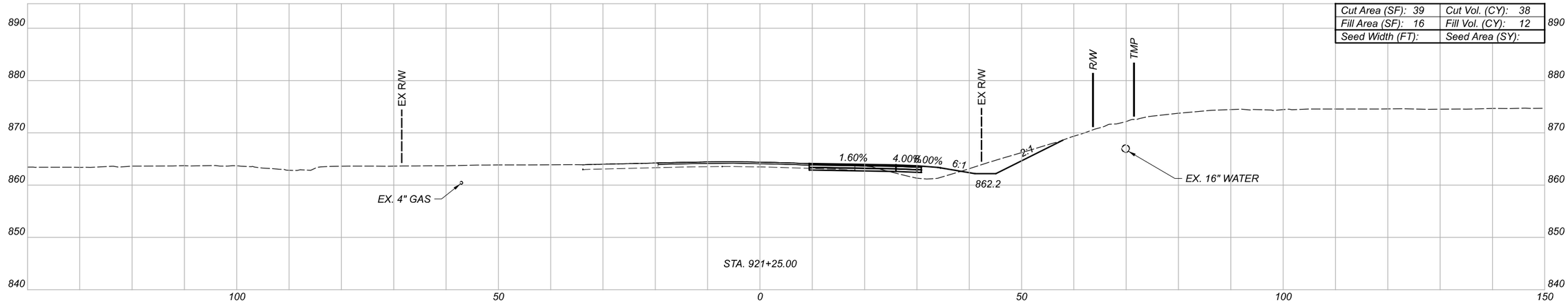
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Seeding	Cut	Fill
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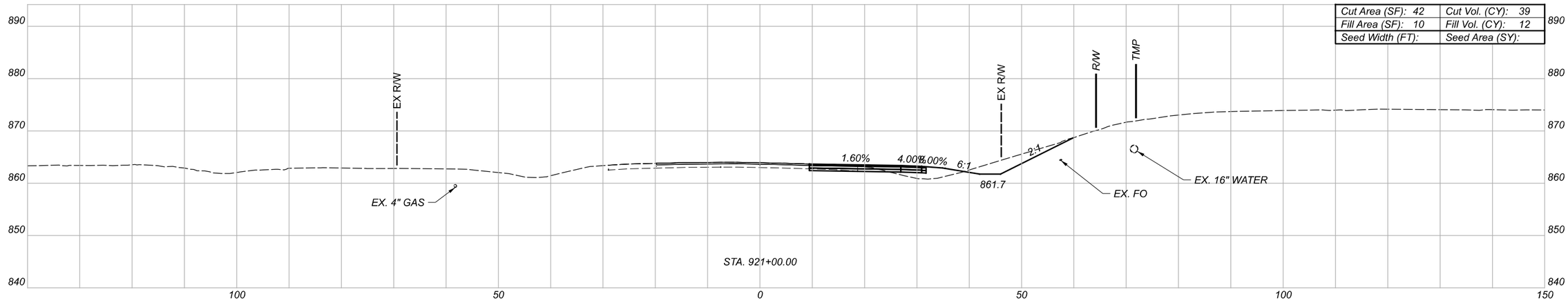
SHEET 279 TOTAL 436

WAR-63-0.83

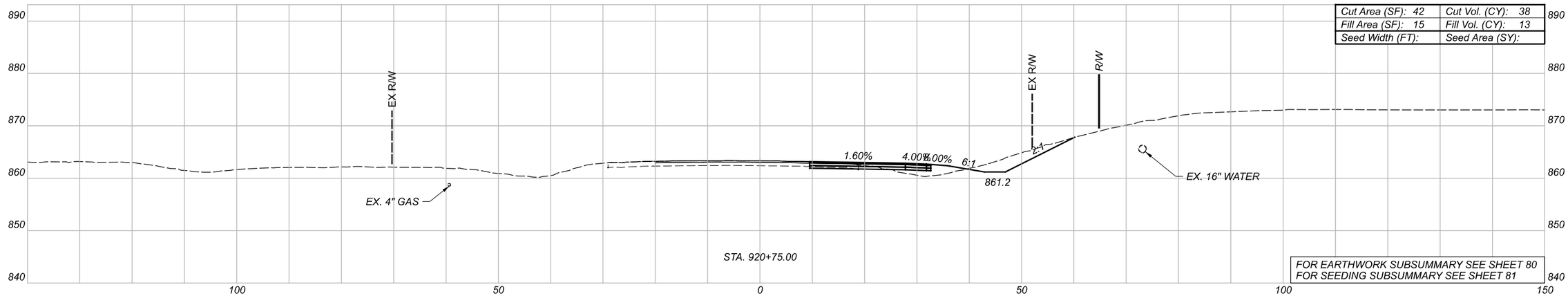
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pw:\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6AI8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_XS002.dgn



Cut Area (SF): 39	Cut Vol. (CY): 38
Fill Area (SF): 16	Fill Vol. (CY): 12
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 42	Cut Vol. (CY): 39
Fill Area (SF): 10	Fill Vol. (CY): 12
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 42	Cut Vol. (CY): 38
Fill Area (SF): 15	Fill Vol. (CY): 13
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 920+75.00 TO STA. 921+25.00

WAR-63-0.83

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DESIGN AGENCY
JACOBS

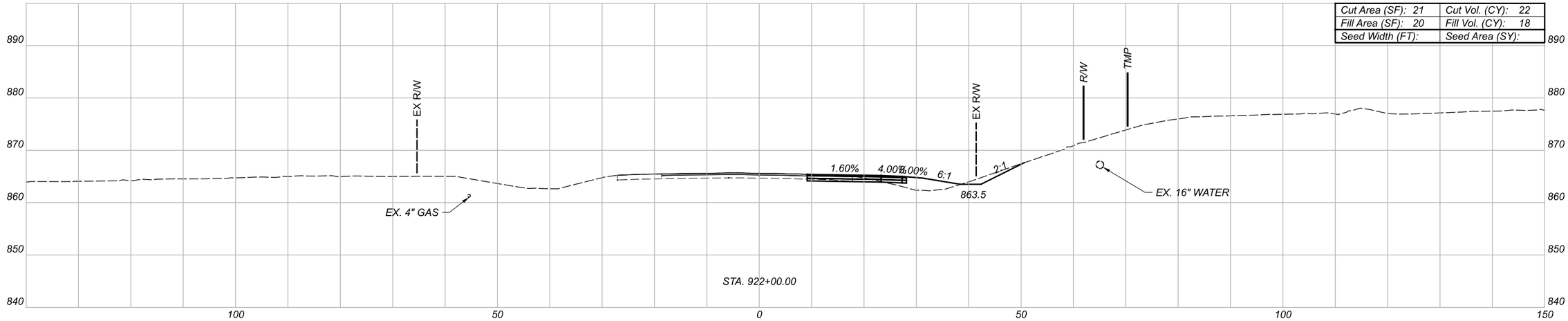
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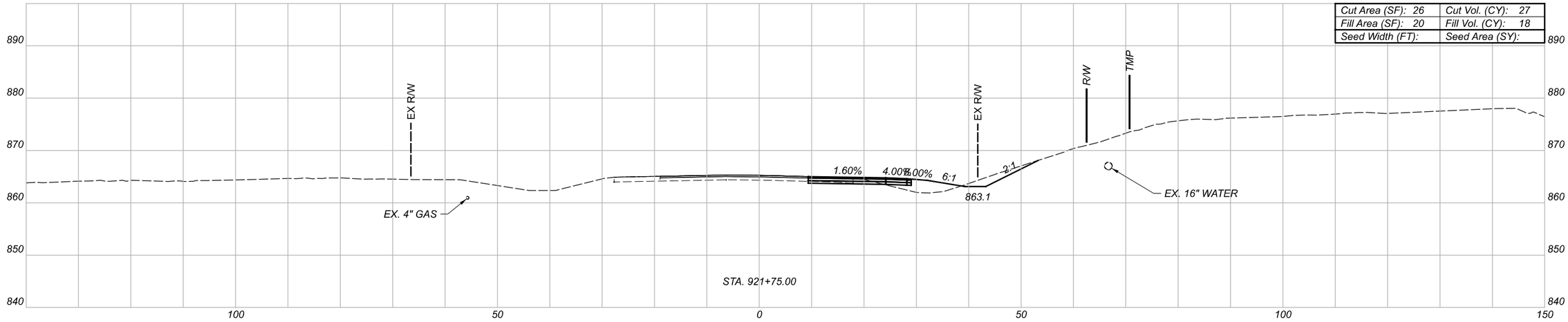
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RN 08/22/23

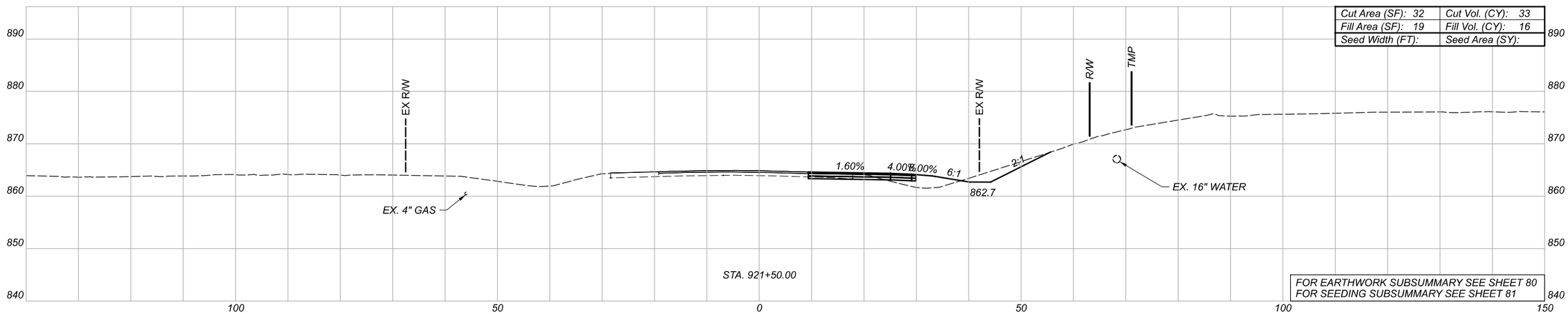
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
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SHEET 280 TOTAL 436







CROSS SECTIONS - SR 741
STA. 921+50.00 TO STA. 922+00.00

WAR-63-0.83

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DESIGN AGENCY
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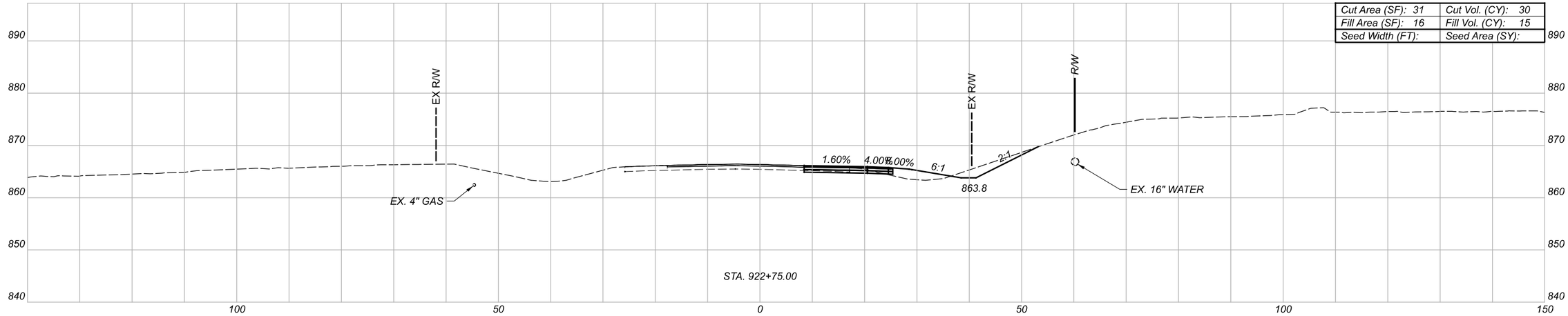
DESIGNER
JO

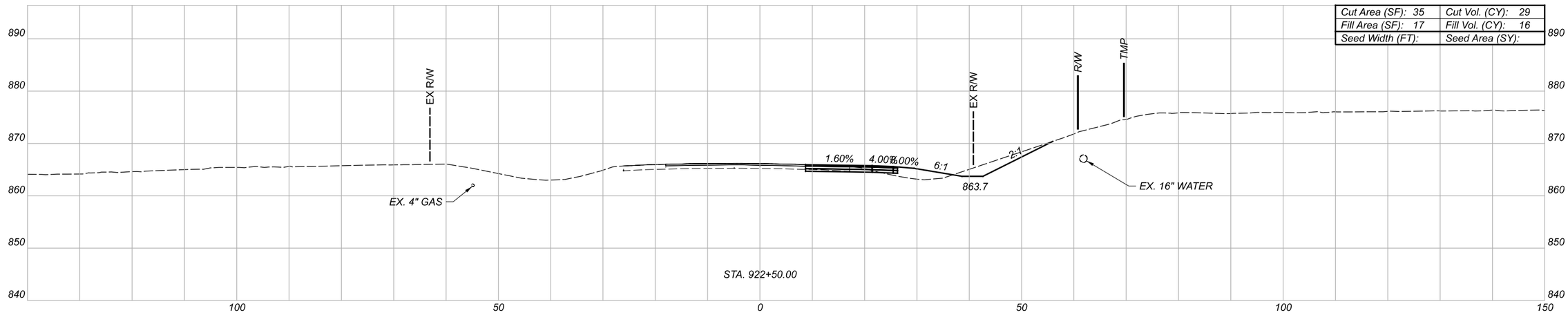
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RN 08/22/23

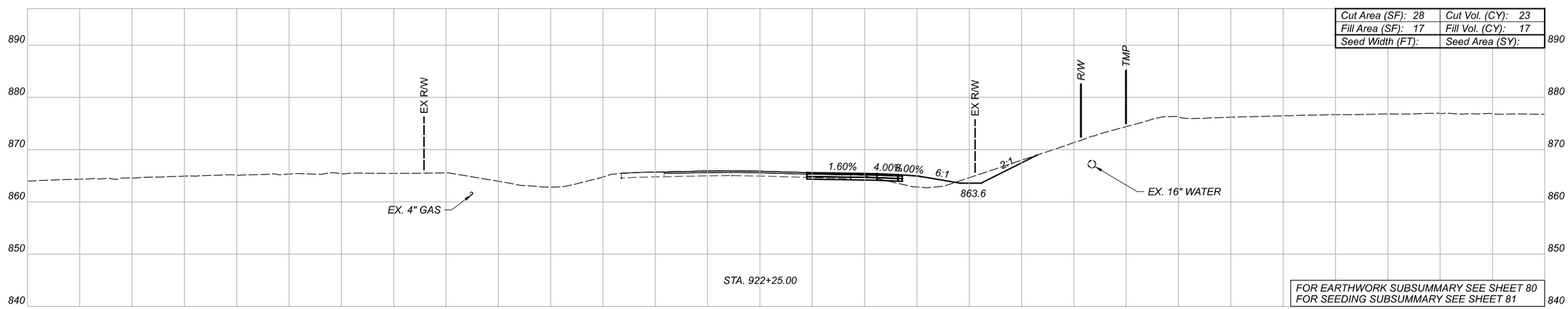
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Sheet Totals		
Seeding	Cut	Fill
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SHEET 281 TOTAL 436







FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 922+25.00 TO STA. 922+75.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

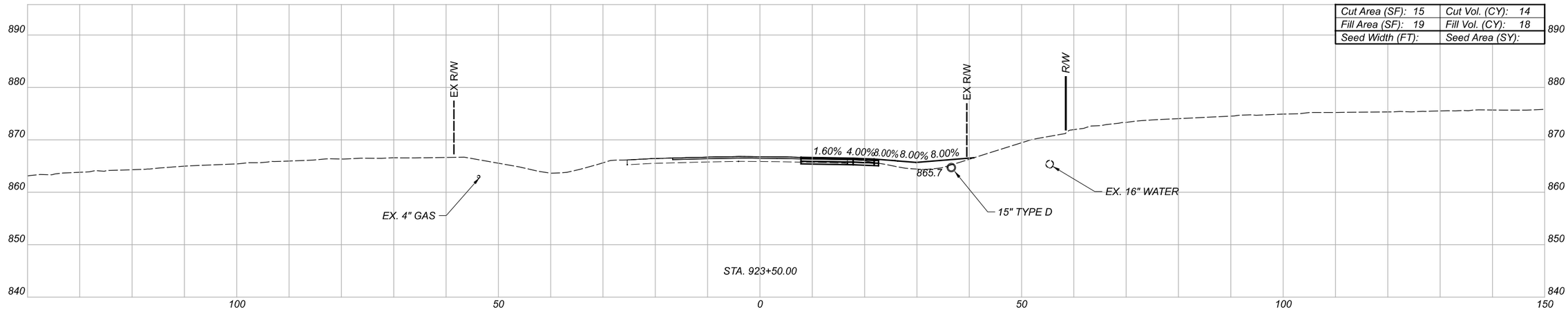
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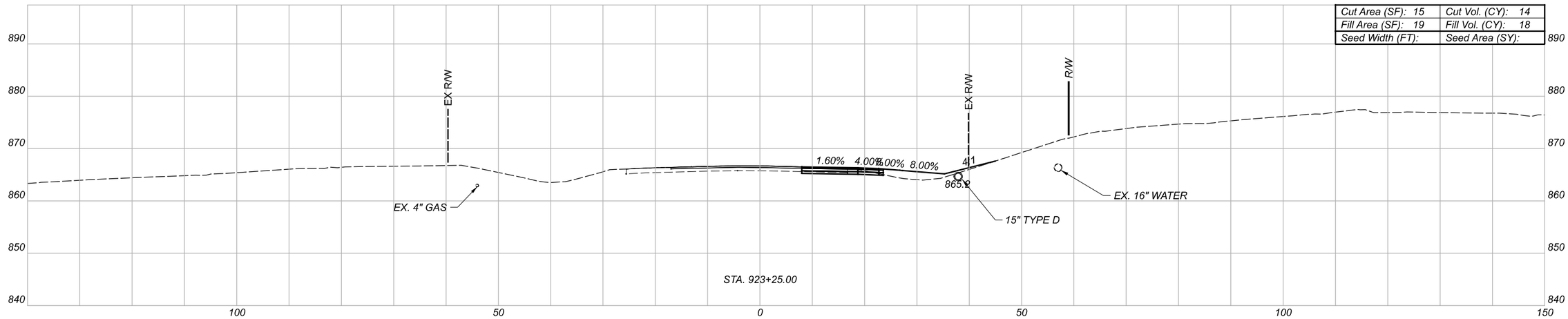
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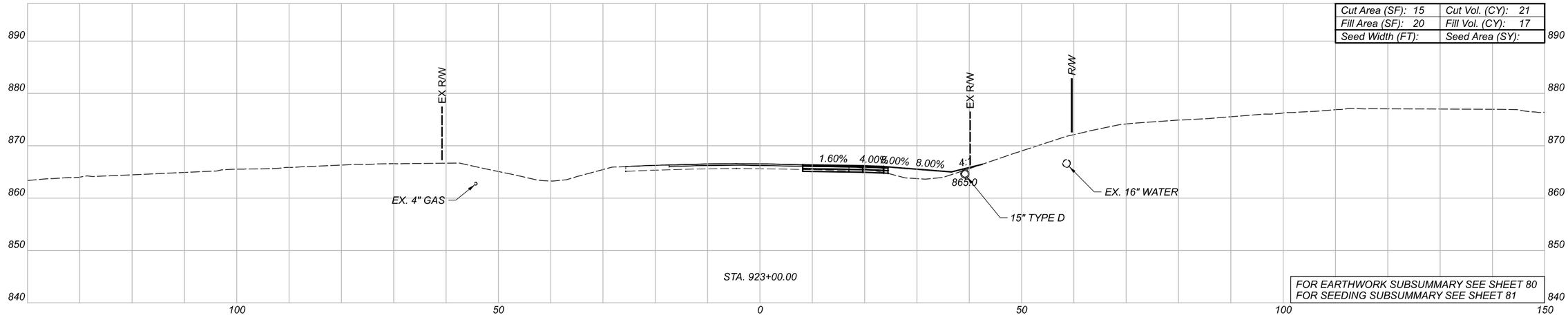
SHEET 282 TOTAL 436

WAR-63-0.83

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FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 923+00.00 TO STA. 923+50.00

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

DESIGNER
JO

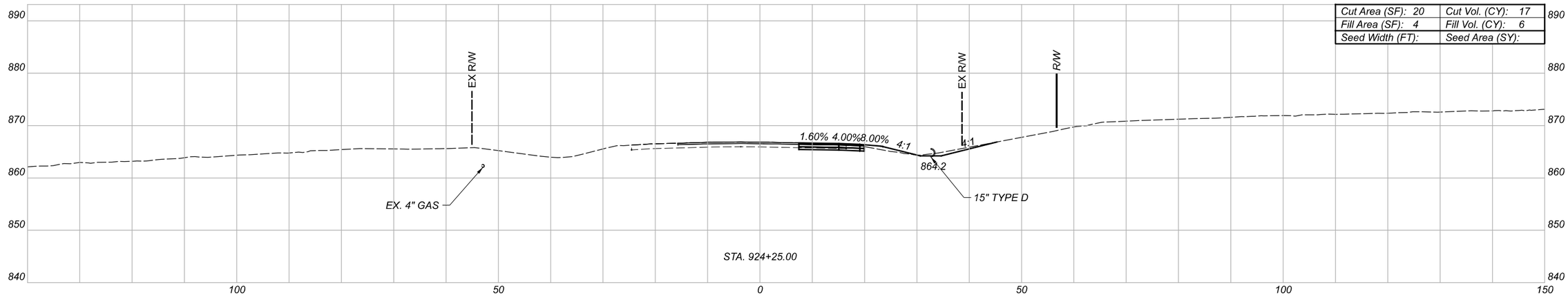
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RN 08/22/23

PROJECT ID
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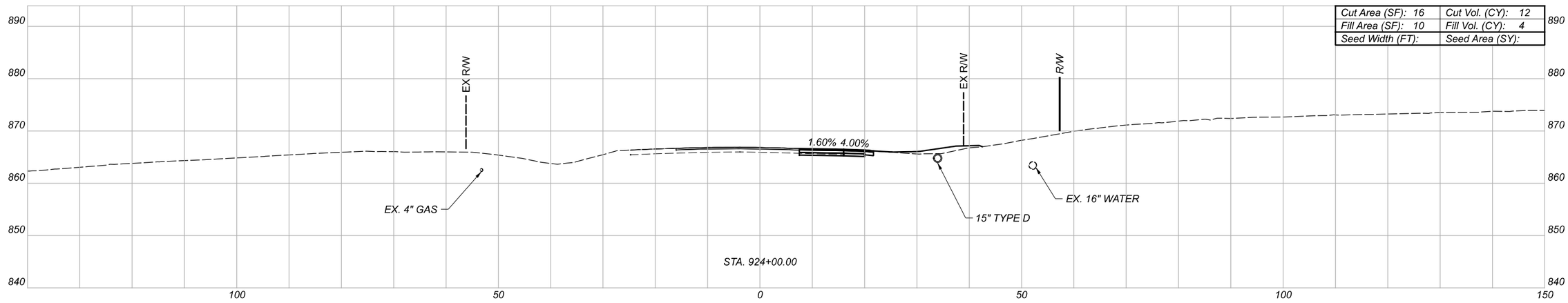
SHEET 283 | TOTAL 436

WAR-63-0.83

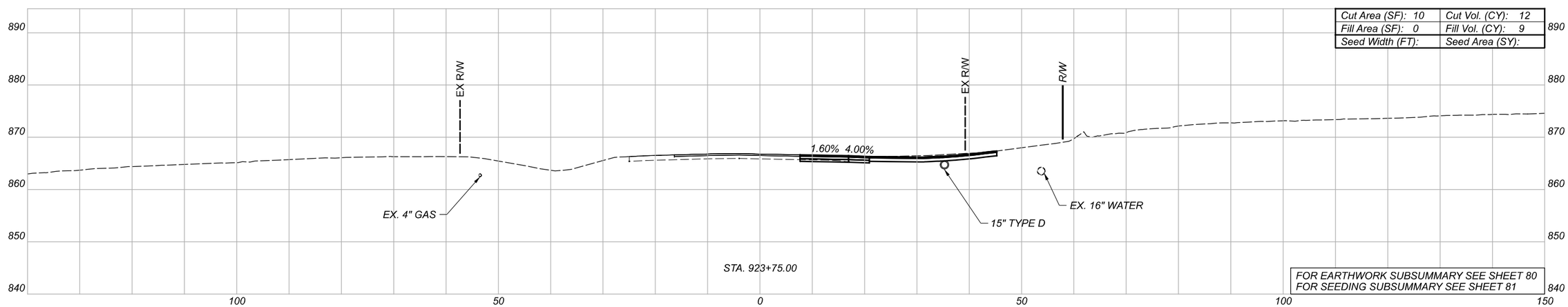
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Cut Area (SF): 20	Cut Vol. (CY): 17
Fill Area (SF): 4	Fill Vol. (CY): 6
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 16	Cut Vol. (CY): 12
Fill Area (SF): 10	Fill Vol. (CY): 4
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 10	Cut Vol. (CY): 12
Fill Area (SF): 0	Fill Vol. (CY): 9
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 923+75.00 TO STA. 924+25.00

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY
JACOBS

DESIGNER JO

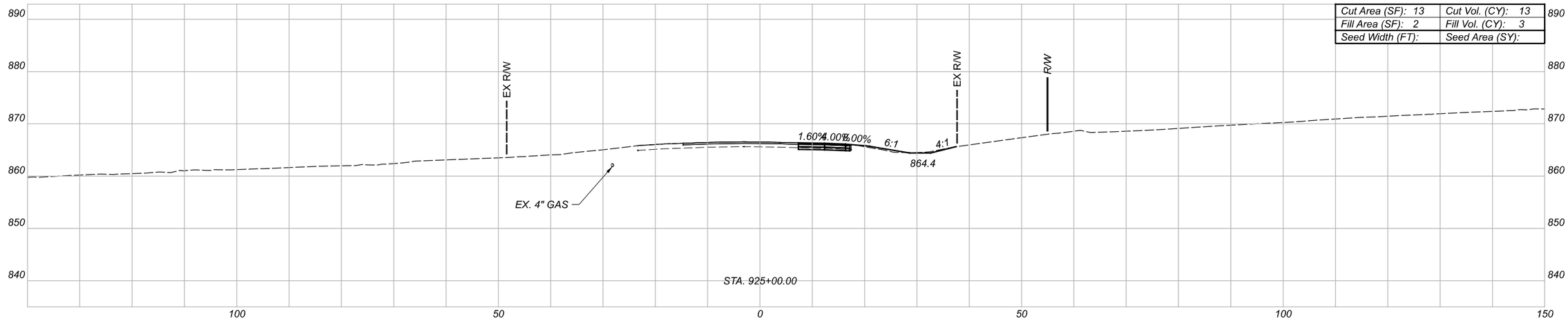
REVIEWER RN 08/22/23

PROJECT ID 112121

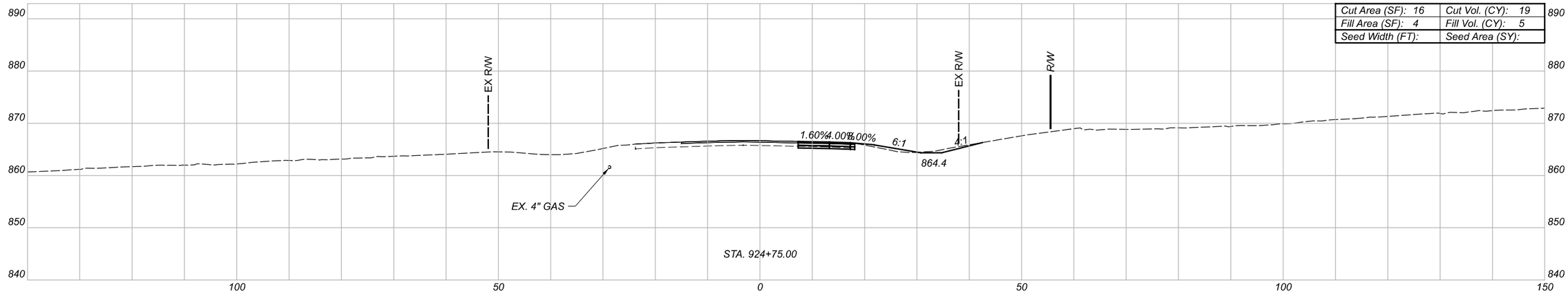
SHEET 284 TOTAL 436

WAR-63-0.83

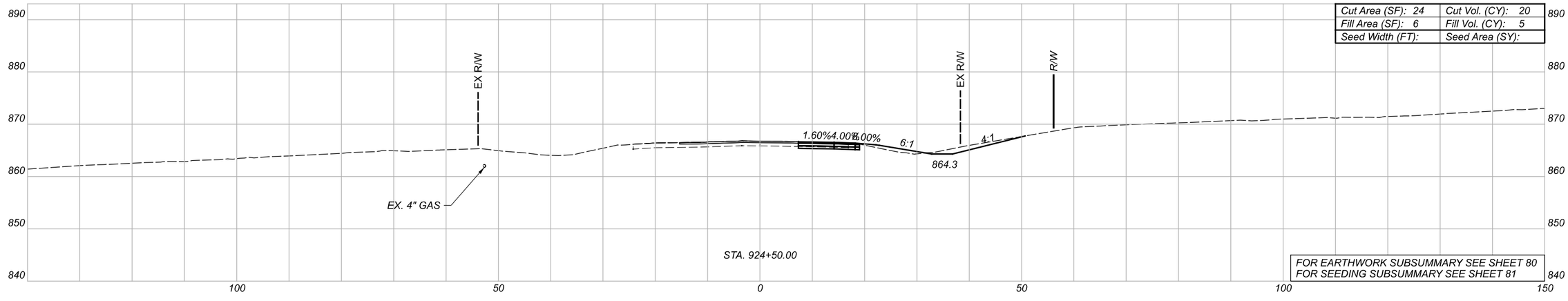
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Cut Area (SF): 13	Cut Vol. (CY): 13
Fill Area (SF): 2	Fill Vol. (CY): 3
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 16	Cut Vol. (CY): 19
Fill Area (SF): 4	Fill Vol. (CY): 5
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 24	Cut Vol. (CY): 20
Fill Area (SF): 6	Fill Vol. (CY): 5
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 924+50.00 TO STA. 925+00.00

WAR-63-0.83

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DESIGN AGENCY
JACOBS

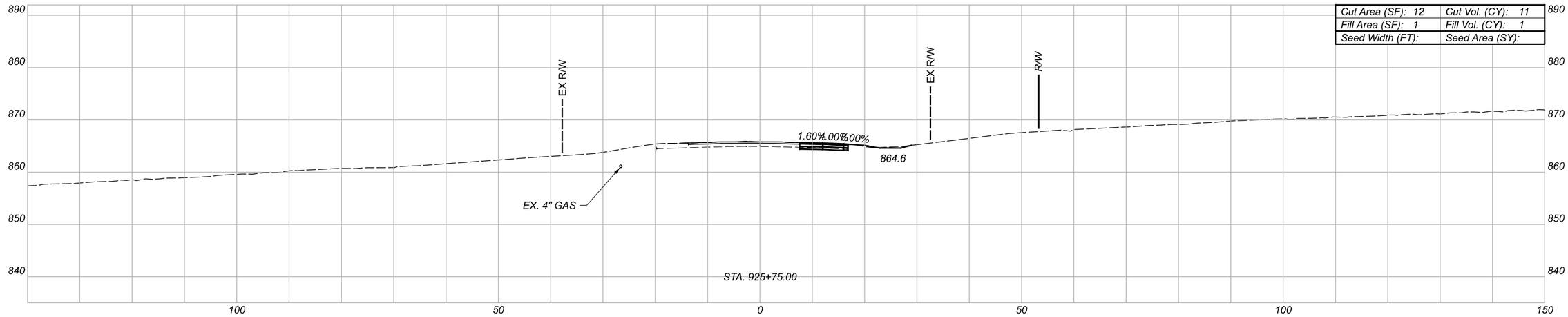
DESIGNER
JO

REVIEWER
RN 08/22/23

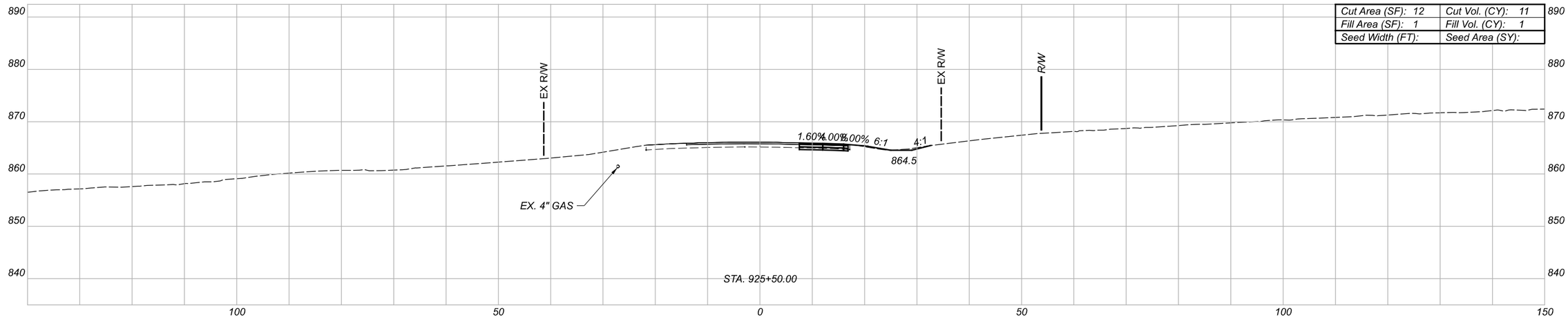
PROJECT ID
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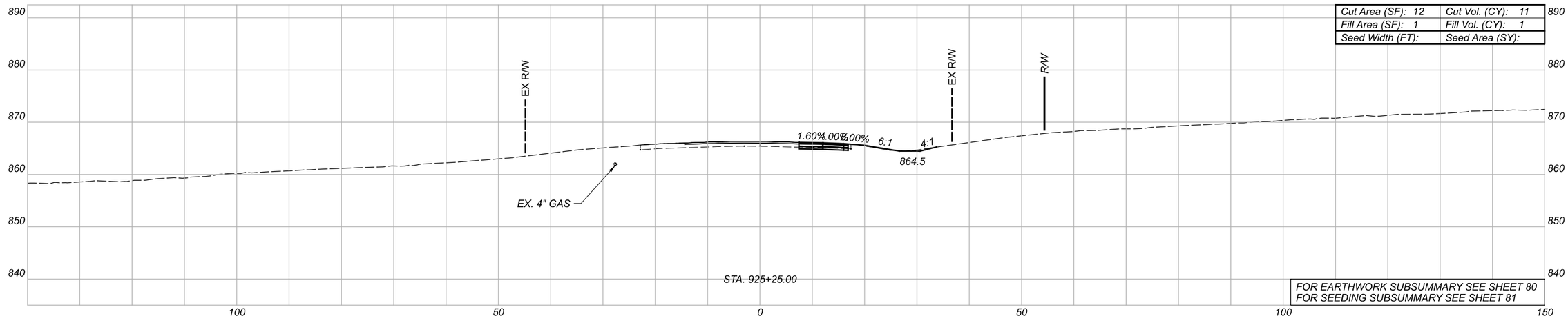
SHEET 285 TOTAL 436



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Fill Area (SF): 1	Fill Vol. (CY): 1
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 12	Cut Vol. (CY): 11
Fill Area (SF): 1	Fill Vol. (CY): 1
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 12	Cut Vol. (CY): 11
Fill Area (SF): 1	Fill Vol. (CY): 1
Seed Width (FT):	Seed Area (SY):

FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 925+25.00 TO STA. 925+75.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

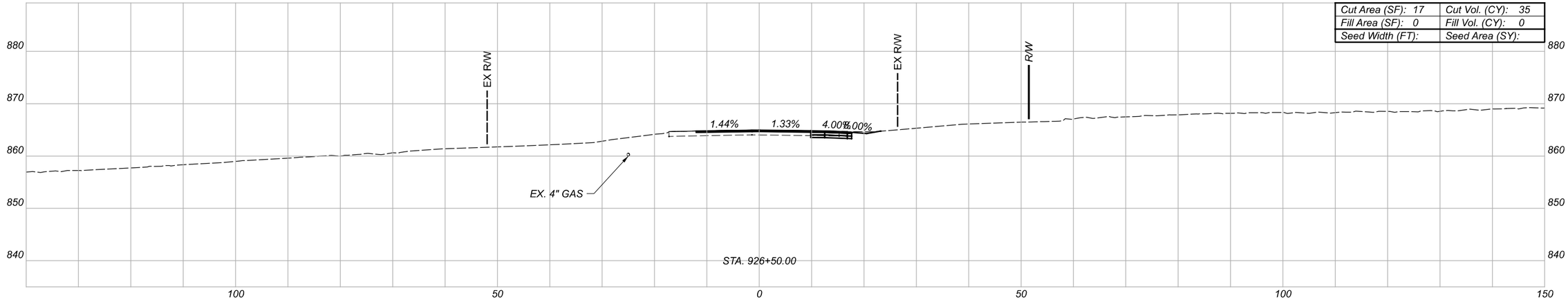
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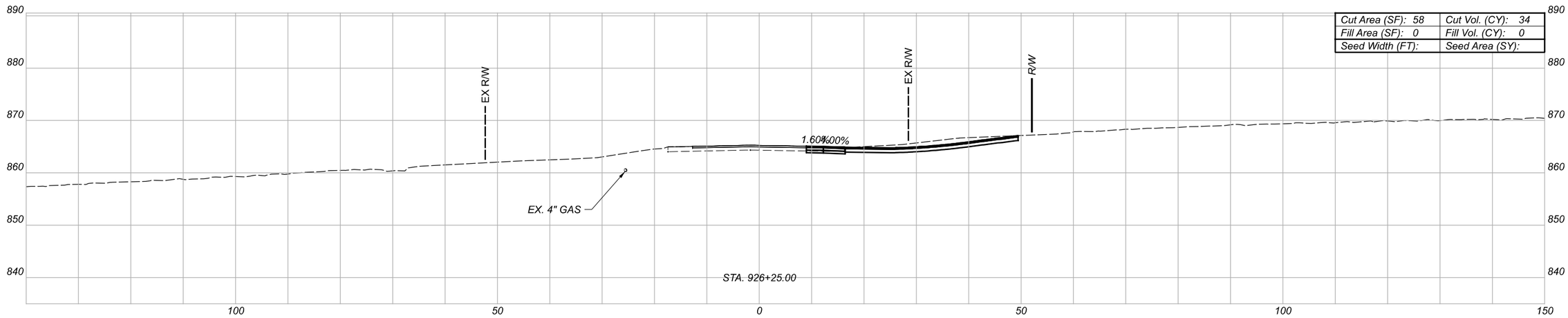
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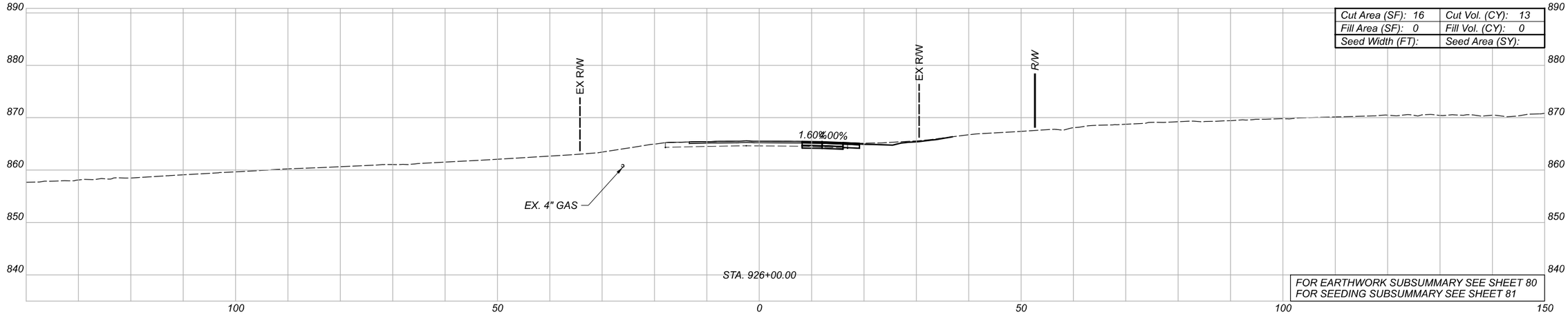
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WAR-63-0.83

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CROSS SECTIONS - SR 741
STA. 926+00.00 TO STA. 926+50.00

WAR-63-0.83

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DESIGN AGENCY
JACOBS

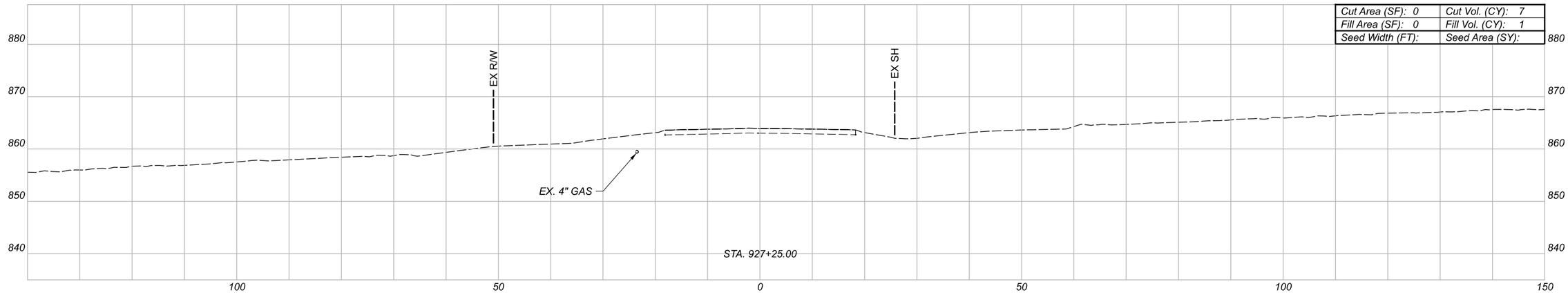
DESIGNER
JO

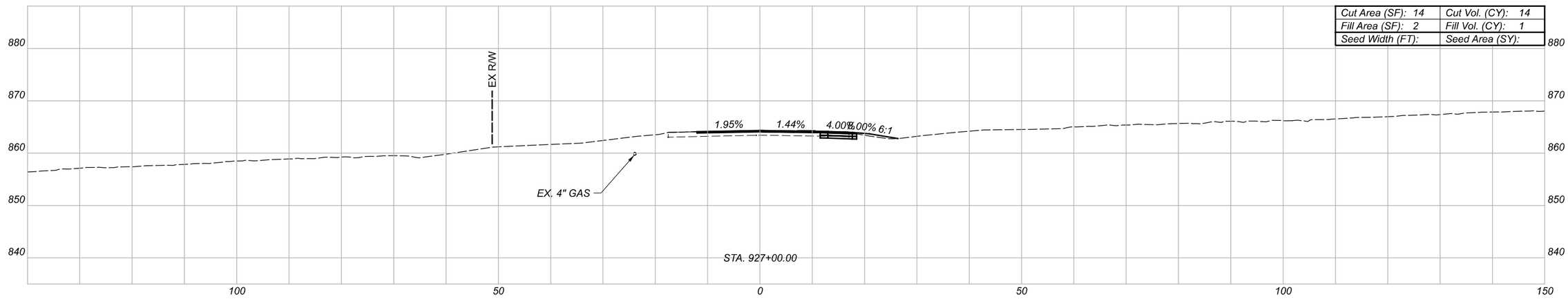
REVIEWER
RN 08/22/23

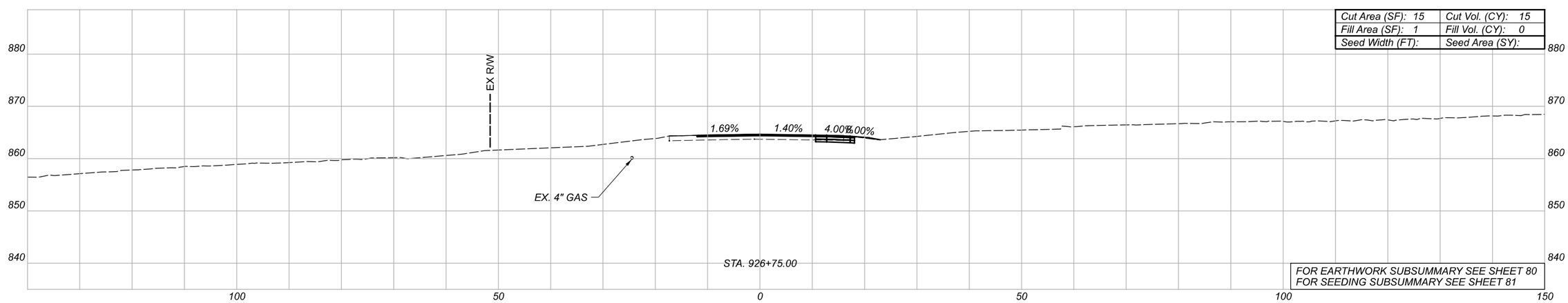
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
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SHEET 287 TOTAL 436







CROSS SECTIONS - SR 741
STA. 926+75.00 TO STA. 927+25.00

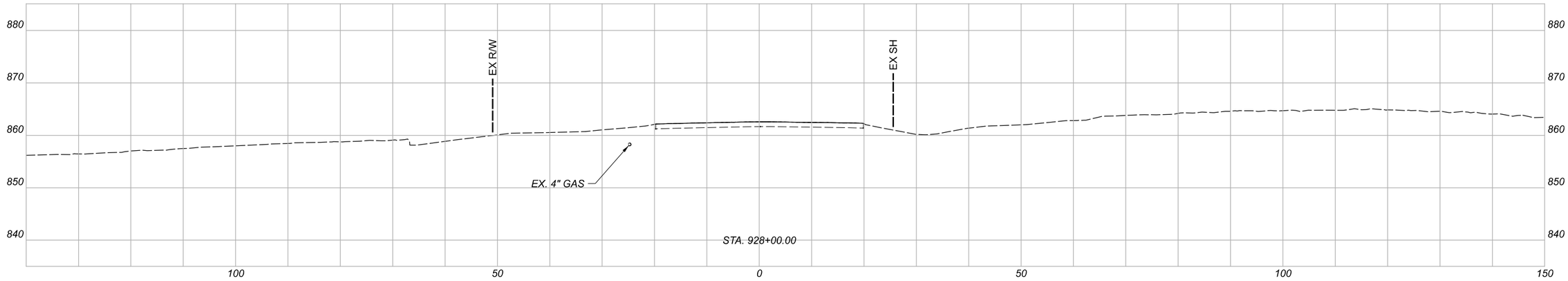
DESIGN AGENCY
JACOBS

DESIGNER	JO
REVIEWER	RN 08/22/23
PROJECT ID	112121

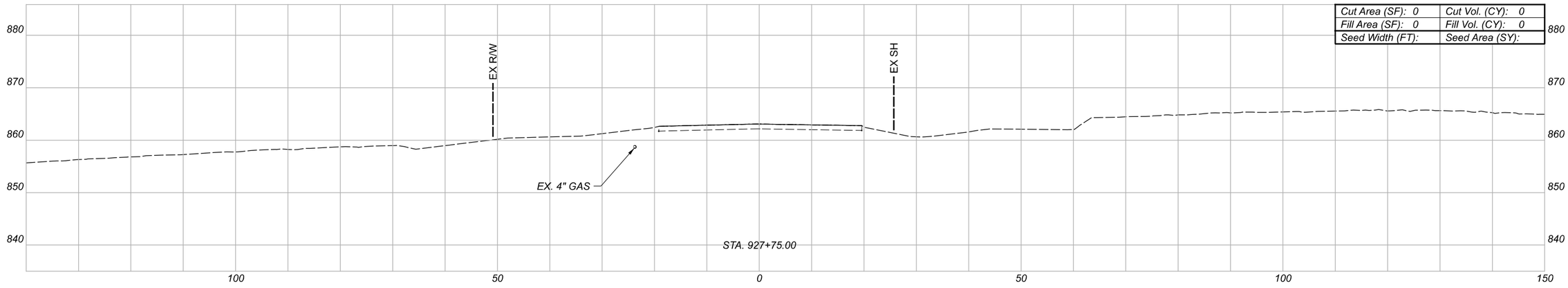
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WAR-63-0.83

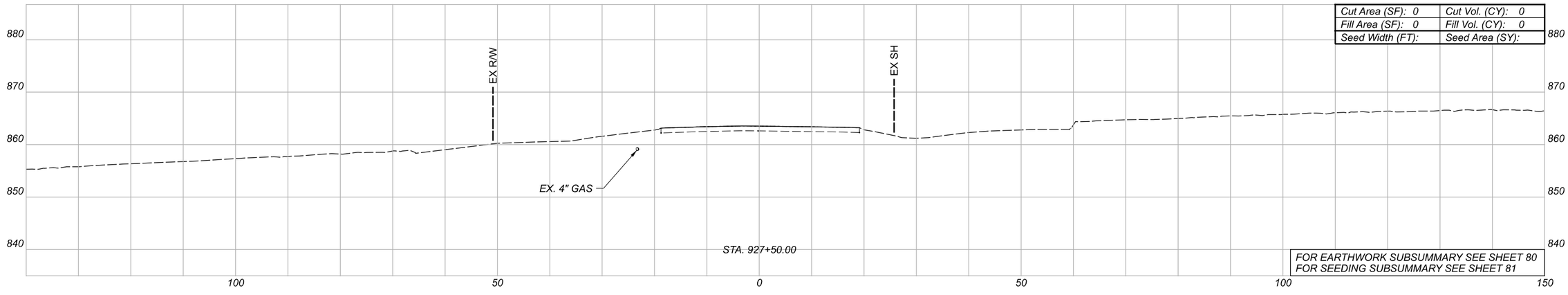
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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



FOR EARTHWORK SUBSUMMARY SEE SHEET 80
FOR SEEDING SUBSUMMARY SEE SHEET 81

CROSS SECTIONS - SR 741
STA. 927+50.00 TO STA. 928+00.00

WAR-63-0.83

MODEL: CLP_SR74IF - 927+50.00 [Sheet] PAPERSIZE: 17x11(in) DATE: 8/23/2023 TIME: 3:52:17 PM USER: Tahir.Sondo@jacobs.com
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DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET 289 TOTAL 436

CROSS SECTIONS - SR 741
STA. 928+00.06 TO STA. 928+05.00

DESIGN AGENCY
JACOBS

DESIGNER
JO

REVIEWER
RN 08/22/23

PROJECT ID
112121

Sheet Totals		
Seeding	Cut	Fill
-	-	-

SHEET 290 TOTAL 436

WAR-63-0.83

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SUPERELEVATION TABLE - SR-63

PC STA. 100+00.00 | **CURVE SR63-1, PI STA. 107+04.11, $D_C = 1^0 07'45"$** | **PT STA. 113+99.28**

EXISTING SUPER = 2.5%

REMARKS	LEFT SIDE: PAVEMENT ELEVATION	LEFT SIDE: PAVEMENT WIDTH	LEFT SIDE: SAWCUT LINE ELEVATION	LEFT SIDE: PAVEMENT SLOPE	CENTER LINE SR 63: STATION	RIGHT SIDE: PAVEMENT SLOPE	RIGHT SIDE: SAWCUT LINE ELEVATION	RIGHT SIDE: PAVEMENT WIDTH	RIGHT SIDE: PAVEMENT ELEVATION	REMARKS
MATCH EXISTING - LT & RT				0.003	107+15.00	-0.003				**MATCH EXISTING - LT & RT**
	669.34	4.00	669.33	0.004	107+25.00	-0.004	669.32	4.97	669.30	
	669.30	4.00	669.27	0.008	107+50.00	-0.008	669.10	4.60	669.06	
	669.25	4.00	669.21	0.012	107+75.00	-0.012	668.86	4.31	668.81	
	669.18	4.00	669.12	0.015	108+00.00	-0.015	668.51	4.09	668.45	
	669.06	4.00	668.99	0.019	108+25.00	-0.019	668.20	3.95	668.12	
	668.94	4.00	668.85	0.023	108+50.00	-0.023	667.84	3.95	667.75	
BEGIN FS	668.86	4.00	668.76	0.025	108+68.00	-0.025	667.64	3.93	667.54	**BEGIN FS**
	668.83	4.00	668.73	0.025	108+75.00	-0.025	667.53	3.95	667.43	
	668.79	4.00	668.69	0.025	109+00.00	-0.025	667.42	4.47	667.31	
	668.66	4.00	668.56	0.025	109+25.00	-0.025	667.31	5.02	667.18	
	668.69	4.00	668.59	0.025	109+50.00	-0.025	667.25	5.65	667.11	
	668.71	4.00	668.61	0.025	109+75.00	-0.025	667.19	6.16	667.04	
	668.77	4.00	668.67	0.025	110+00.00	-0.025	667.23	6.69	667.07	
	668.83	4.00	668.73	0.025	110+25.00	-0.025	667.33	7.34	667.15	
	668.95	4.00	668.85	0.025	110+50.00	-0.025	667.48	7.85	667.29	
	669.07	4.00	668.97	0.025	110+75.00	-0.025	667.67	8.49	667.46	
	669.19	4.00	669.09	0.025	111+00.00	-0.025	667.78	9.12	667.55	
	669.24	4.00	669.14	0.025	111+25.00	-0.025	667.86	9.73	667.61	
	669.44	4.00	669.34	0.025	111+50.00	-0.025	667.99	10.46	667.73	
	669.57	4.00	669.47	0.025	111+75.00	-0.025	668.14	11.15	667.86	
	669.71	4.00	669.61	0.025	112+00.00	-0.025	668.27	11.96	667.97	
	669.80	4.00	669.70	0.025	112+25.00	-0.025	668.37	12.63	668.06	
	669.90	4.00	669.80	0.025	112+50.00	-0.025	668.47	13.41	668.14	
	669.97	4.00	669.87	0.025	112+75.00	-0.025	668.52	14.13	668.17	
	670.03	4.00	669.93	0.025	113+00.00	-0.025	668.59	14.93	668.22	
	670.05	4.00	669.95	0.025	113+25.00	-0.025	668.63	15.65	668.24	
END FS	670.14	4.00	670.04	0.025	113+32.61	-0.025	668.64	16.18	668.24	**END FS**
	670.16	4.00	670.07	0.023	113+50.00	-0.023	668.70	16.49	668.32	
	670.26	4.00	670.18	0.020	113+75.00	-0.020	668.72	17.45	668.37	
PT	670.26	4.00	670.19	0.017	113+99.28	-0.017	668.81	18.00	668.50	**PT**
	670.26	4.00	670.19	0.017	114+00.00	-0.017	668.82	18.00	668.51	
REVERSE CROWN	670.25	4.00	670.19	0.016	114+04.61	-0.016	668.84	18.07	668.55	**REVERSE CROWN**
	670.25	4.00	670.20	0.013	114+25.00	-0.016	668.92	18.39	668.63	
	670.26	2.00	670.24	0.010	114+50.00	-0.016	669.03	18.64	668.73	
	670.23	2.00	670.22	0.007	114+75.00	-0.016	669.17	18.67	668.87	
	670.17	2.00	670.16	0.004	115+00.00	-0.016	669.29	18.55	668.99	
HALF FLAT - LT	670.14	2.00	670.14	0.001	115+25.00	-0.016	669.40	18.51	669.10	**HALF FLAT - LT**
	670.12	2.00	670.12	0.000	115+32.61	-0.016	669.37	18.51	669.07	
	670.05	2.00	670.05	-0.002	115+50.00	-0.016	669.45	18.53	669.16	
	669.90	2.00	669.91	-0.005	115+75.00	-0.016	669.48	18.55	669.18	
	669.82	2.00	669.83	-0.008	116+00.00	-0.016	669.53	18.60	669.24	
	669.70	2.00	669.72	-0.012	116+25.00	-0.016	669.71	18.72	669.41	
				-0.015	116+50.00	-0.016	669.77	18.93	669.47	
NORMAL CROWN - LT & RT				-0.016	116+60.61	-0.016	669.82	19.01	669.52	**NORMAL CROWN - LT & RT**

CENTER LINE SR 63 — STATION 107+15.00 to 113+32.61: 217.33:1

RIGHT SIDE — PAVEMENT SLOPE, STATION 107+15.00 to 113+32.61: 217.33:1

LEFT SIDE — PAVEMENT SLOPE, STATION 113+32.61 to 116+60.61: 222.22:1

RIGHT SIDE — PAVEMENT SLOPE, STATION 113+32.61 to 116+60.61: 222.22:1

SR 63 - SUPERELEVATION TABLE

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 291 | TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 4:00:07 PM USER: Tahir.Sondo@jacobs.com
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SUPERELEVATION TABLE - SR-741

PC STA. 904+02.46

CURVE SR741-1, PI STA. 907+39.00, $D_C = 3^0$

EXISTING SUPER = 6.2%

PT STA. 910+68.70

REMARKS	SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH		LEFT SIDE SAWCUT LINE ELEVATION	LEFT SIDE PAVEMENT SLOPE		CENTER LINE SR 741 STATION		RIGHT SIDE PAVEMENT SLOPE		RIGHT SIDE SAWCUT LINE ELEVATION	RIGHT SIDE PAVEMENT WIDTH	RIGHT SIDE POINT ON PAVEMENT ELEVATION		SHOULDER POINT ON SHOULDER WIDTH	SHOULDER SLOPE	SHOULDER POINT ON SHOULDER ELEVATION	SHOULDER WIDTH	SHOULDER CROSSSLOPE	SHOULDER ELEVATION	REMARKS
HALF FLAT (0%)								902+61.16		0.0000												HALF FLAT (0%)
								902+75.00		0.0040												
								903+00.00		0.0114												
								903+25.00		0.0187												
								903+50.00		0.0260												
								903+63.74		0.0300												
BEGIN WIDENING - RT								903+65.09		0.0304		823.33	1.00	823.36				823.36	8.00	0.0396	824.04	BEGIN WIDENING - RT
								903+75.00		0.0333		823.67	1.10	823.71				823.71	8.00	0.0367	823.41	
								904+00.00		0.0406		824.52	1.81	824.60				824.60	8.00	0.0294	824.36	
PC								904+02.46		0.0413		824.62	1.93	824.70				824.70	8.00	0.0287	824.47	PC
								904+25.00		0.0479		825.42	2.90	825.56				825.56	8.00	0.0221	825.38	
								904+50.00		0.0552		826.25	3.75	826.46				826.46	8.00	0.0148	826.34	
BEGIN 5' SHLD ROUNDING - RT								904+66.32		0.0600		826.82	4.22	827.07		2.50	0.0600	827.22	5.50	0.0100	827.16	BEGIN 5' SHLD ROUNDING - RT
BEGIN FS								904+73.16		0.0620		827.00	4.38	827.27		2.50	0.0620	827.42	5.50	0.0100	827.37	BEGIN FS
								904+75.00		0.0620		827.06	4.41	827.33		2.50	0.0620	827.49	5.50	0.0100	827.43	
								905+00.00		0.0620		827.77	5.22	828.09		2.50	0.0620	828.25	5.50	0.0100	828.19	
								905+25.00		0.0620		828.46	5.78	828.82		2.50	0.0620	828.97	5.50	0.0100	828.92	
								905+50.00		0.0620		829.21	6.35	829.61		2.50	0.0620	829.76	5.50	0.0100	829.71	
								905+75.00		0.0620		829.95	11.76	830.67		2.50	0.0620	830.83	5.50	0.0100	830.77	
								906+00.00		0.0620		830.62	17.49	831.71		2.50	0.0620	831.86	5.50	0.0100	831.81	
								906+25.00		0.0620		831.35	17.27	832.42		2.50	0.0620	832.58	5.50	0.0100	832.52	
								906+50.00		0.0620		832.07	16.89	833.11		2.50	0.0620	833.27	5.50	0.0100	833.21	
BEGIN WIDENING - LT	829.68	0.0620	8.00		830.17	0.0620		906+51.15		0.0620		832.09	16.90	833.14		2.50	0.0620	833.29	5.50	0.0100	833.24	BEGIN WIDENING - LT
	830.32	0.0620	8.00		830.82	0.0620		906+75.00		0.0620		832.72	16.36	833.73		2.50	0.0620	833.89	5.50	0.0100	833.83	
	830.94	0.0620	8.00		831.44	0.0620		907+00.00		0.0620		833.32	16.15	834.32		2.50	0.0620	834.48	5.50	0.0100	834.42	
	831.52	0.0620	8.00		832.02	0.0620		907+25.00		0.0620		833.95	16.06	834.94		2.50	0.0620	835.10	5.50	0.0100	835.04	
	832.08	0.0620	8.00		832.58	0.0620		907+50.00		0.0620		834.52	16.13	835.51		2.50	0.0620	835.67	5.50	0.0100	835.61	
	832.65	0.0620	8.00		833.15	0.0620		907+75.00		0.0620		835.02	16.16	836.02		2.50	0.0620	836.18	5.50	0.0100	836.12	
	833.15	0.0620	8.00		833.65	0.0620		908+00.00		0.0620		835.50	16.31	836.51		2.50	0.0620	836.67	5.50	0.0100	836.61	
	833.64	0.0620	8.00		834.14	0.0620		908+25.00		0.0620		835.92	16.48	836.94		2.50	0.0620	837.10	5.50	0.0100	837.04	
	834.07	0.0620	8.00		834.57	0.0620		908+50.00		0.0620		836.25	17.13	837.31		2.50	0.0620	837.47	5.50	0.0100	837.41	
	834.49	0.0620	8.00		834.99	0.0620		908+75.00		0.0620		836.65	17.80	837.76		2.50	0.0620	837.91	5.50	0.0100	837.86	
	834.89	0.0620	8.00		835.39	0.0620		909+00.00		0.0620		837.08	18.30	838.21		2.50	0.0620	838.37	5.50	0.0100	838.31	
	835.33	0.0620	8.00		835.83	0.0620		909+25.00		0.0620		837.47	19.07	838.65		2.50	0.0620	838.81	5.50	0.0100	838.75	
	835.75	0.0620	8.00		836.25	0.0620		909+50.00		0.0620		837.88	19.70	839.10		2.50	0.0620	839.26	5.50	0.0100	839.20	
	836.22	0.0620	8.00		836.72	0.0620		909+75.00		0.0620		838.19	20.19	839.44		2.50	0.0620	839.60	5.50	0.0100	839.54	
END FS - RT	836.35	0.0620	8.00		836.84	0.0620		909+84.00		0.0620		838.27	20.56	839.54		2.50	0.0620	839.70	5.50	0.0100	839.64	END FS - RT
END 5' SHLD ROUNDING - RT	836.45	0.0620	8.00		836.95	0.0620		909+89.14		0.0600		838.33	20.73	839.57		2.50	0.0600	839.72	5.50	0.0100	839.67	END 5' SHLD ROUNDING - RT
	836.68	0.0620	8.00		837.18	0.0620		910+00.00		0.0558		838.45	21.00	839.62				839.62	8.00	0.0142	839.51	
END FS - LT	836.82	0.0620	8.00		837.31	0.0620		910+10.00		0.0519		838.52	21.34	839.63				839.63	8.00	0.0181	839.48	END FS - LT
	837.10	0.0565	8.00		837.55	0.0565		910+25.00		0.0461		838.63	21.76	839.63				839.63	8.00	0.0239	839.44	
	837.61	0.0472	8.00		837.99	0.0472		910+50.00		0.0363		838.86	22.31	839.67				839.67	8.00	0.0337	839.40	
	837.86	0.0412	8.00		838.19	0.0412		910+66.31		0.0300		839.00	22.50	839.67				839.67	8.00	0.0400	839.35	
PT	837.89	0.0403	8.00		838.22	0.0403		910+68.70		0.0291		839.01	22.52	839.67				839.67	8.00	0.0400	839.35	PT
	837.90	0.0400	8.00		838.22	0.0400		910+69.46		0.0288		839.02	22.52	839.67				839.67	8.00	0.0400	839.35	
	837.95	0.0400	8.00		838.27	0.0380		910+75.00		0.0266		839.05	22.54	839.64				839.64	8.00	0.0400	839.32	
MATCH EXISTING SLOPE, LT/RT	838.22	0.0400	8.00		838.54	0.0287		911+00.00		0.0169		839.26	22.91	839.64				839.64	8.00	0.0400	839.32	MATCH EXISTING SLOPE, LT/RT
								911+25.00														
								911+50.00														
								911+75.00														

EXISTING

213.17:1

214.339:1

225.225:1

SEE INTERSECTION DETAIL

SEE INTERSECTION DETAIL

SR 741 - SUPERELEVATION TABLE

DESIGN AGENCY
JACOBS

DESIGNER TES

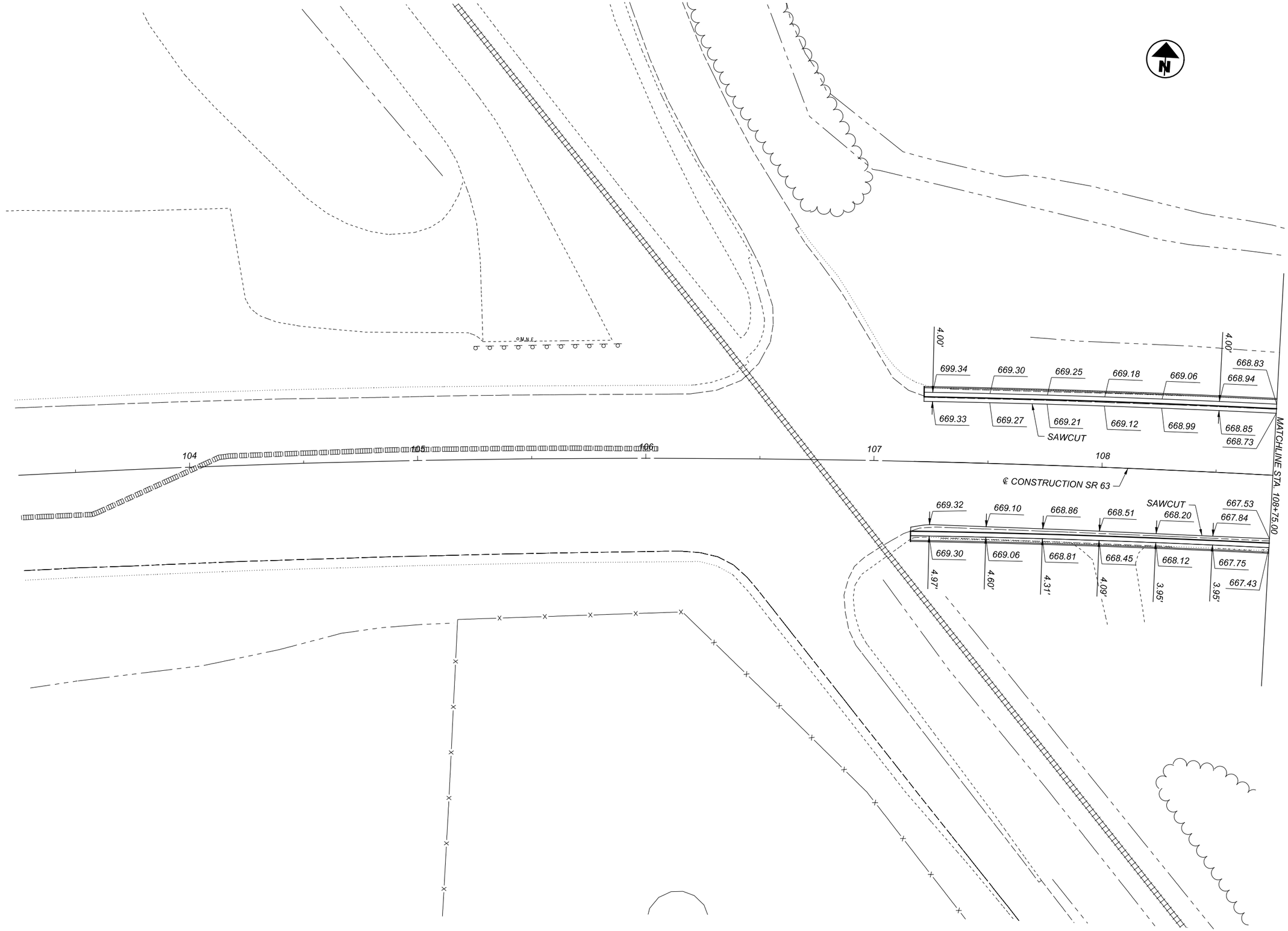
REVIEWER RN 08/22/23

PROJECT ID 112121

SHEET 292 | TOTAL 436

WAR-63-0.83

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HORIZONTAL SCALE IN FEET
0 10 20 40

PAVEMENT ELEVATION
SR 63

DESIGN AGENCY
JACOBS

DESIGNER
TES

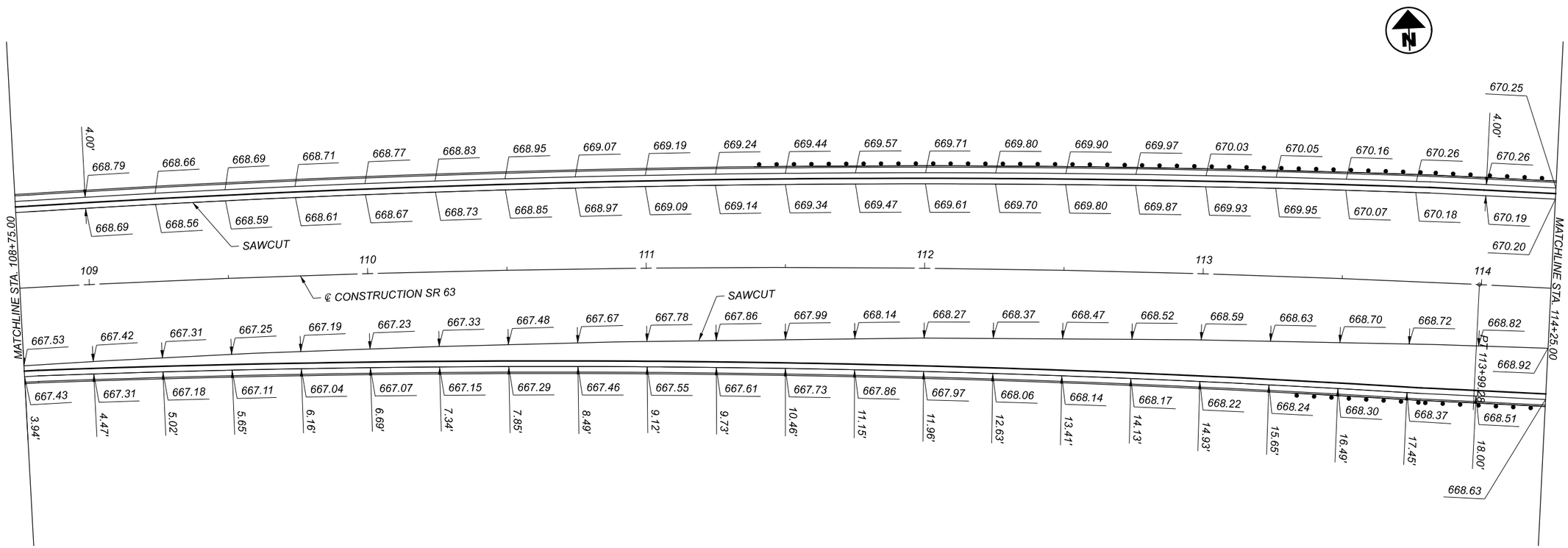
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 293 | TOTAL 436

WAR-63-0.83

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HORIZONTAL SCALE IN FEET
0 10 20 40

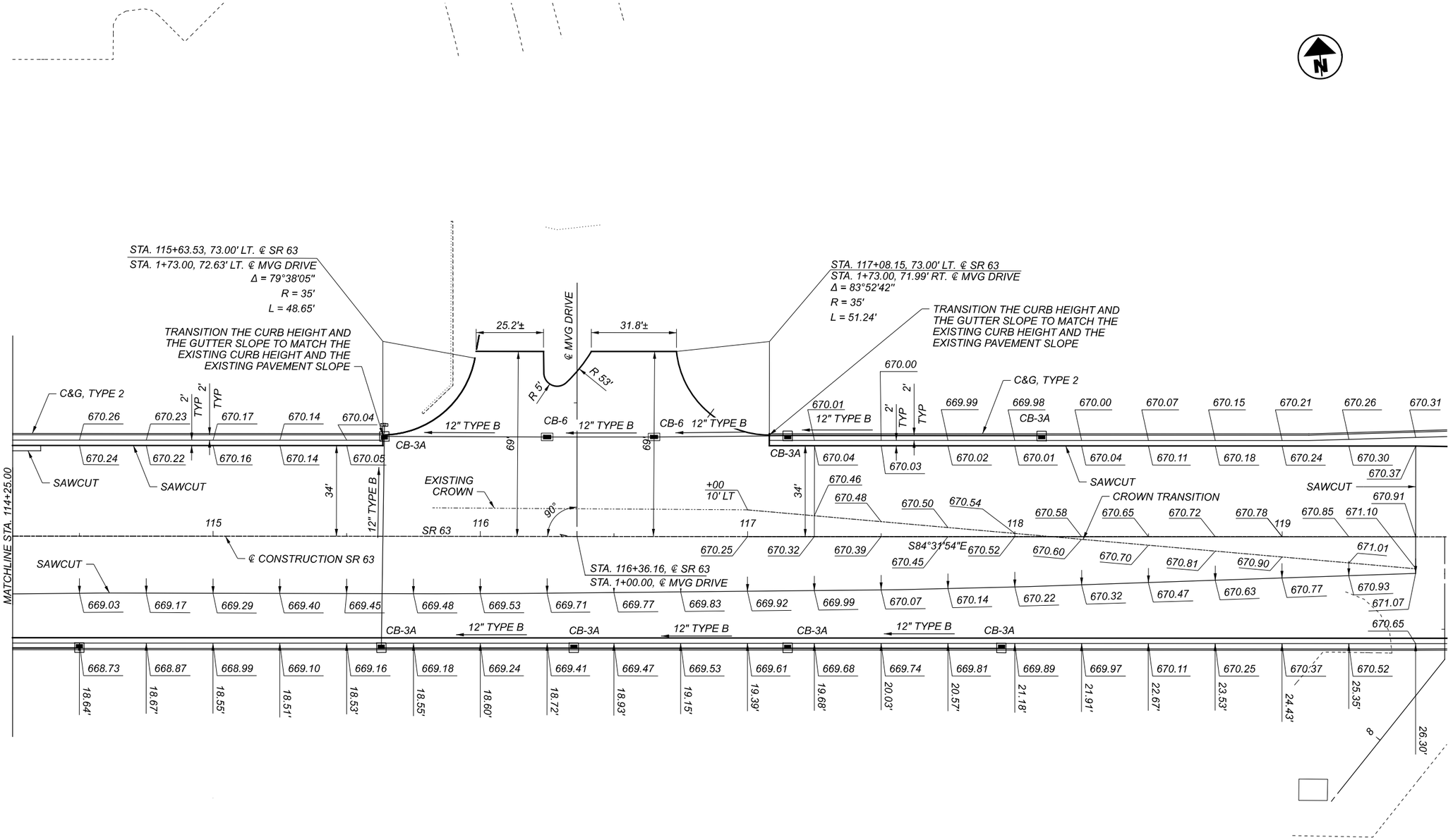
PAVEMENT ELEVATION
SR 63

DESIGN AGENCY	JACOBS
DESIGNER	TES
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	294
TOTAL	436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:01:28 PM USER: Tahir.Sondo@Jacobs.com
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INTERSECTION DETAIL & PAVEMENT ELEVATION
SR 63 AND MIAMI VALLEY GAMING DRIVE

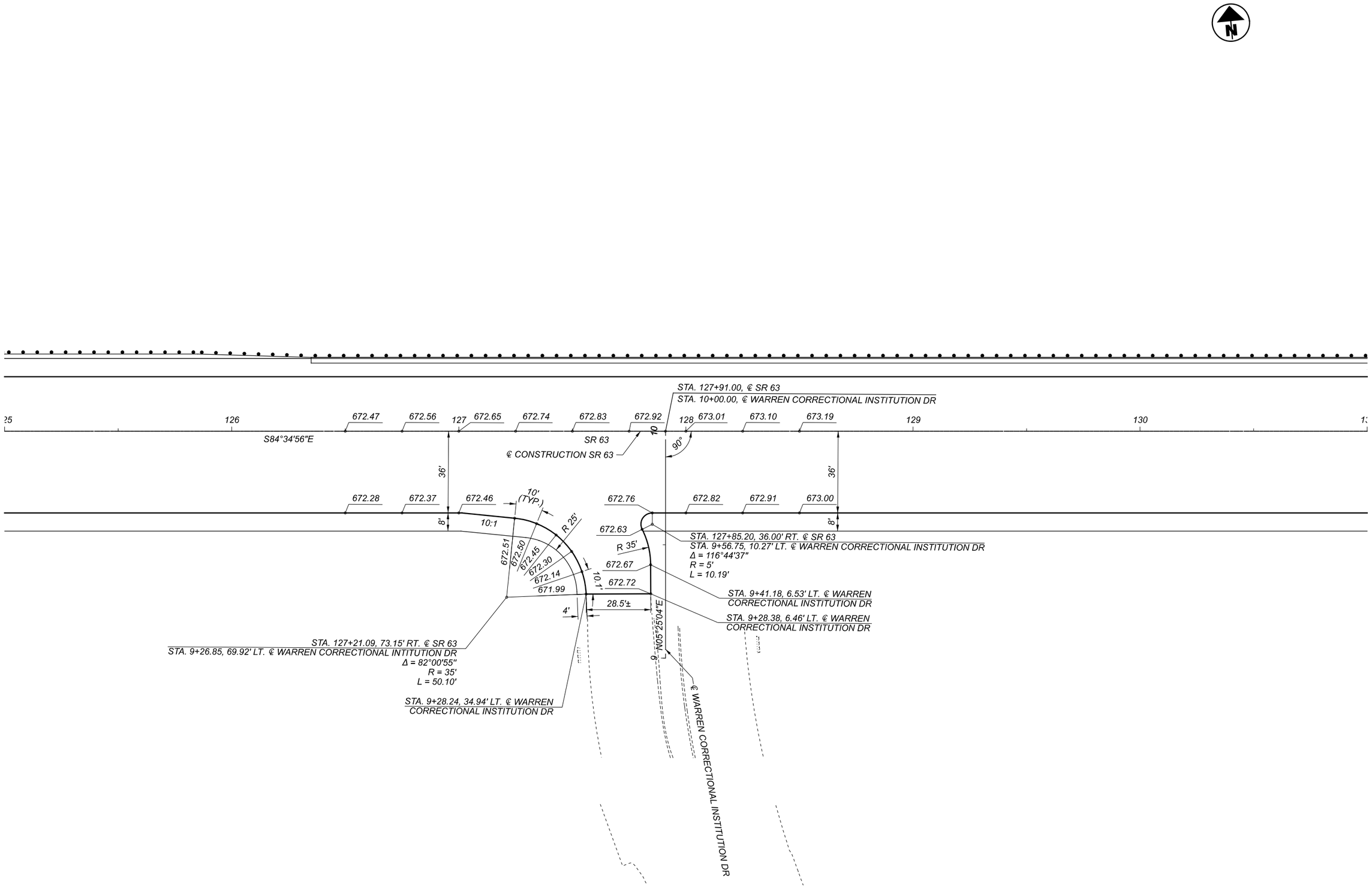


HORIZONTAL SCALE IN FEET
0 10 20 40

DESIGN AGENCY	JACOBS
DESIGNER	KR
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	295
TOTAL	436

WAR-63-0.83

MODEL: CLP_SR63 - Plan 1[Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:01:52 PM USER: Tahir.Sondo@Jacobs.com
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HORIZONTAL SCALE IN FEET
0 10 20 40

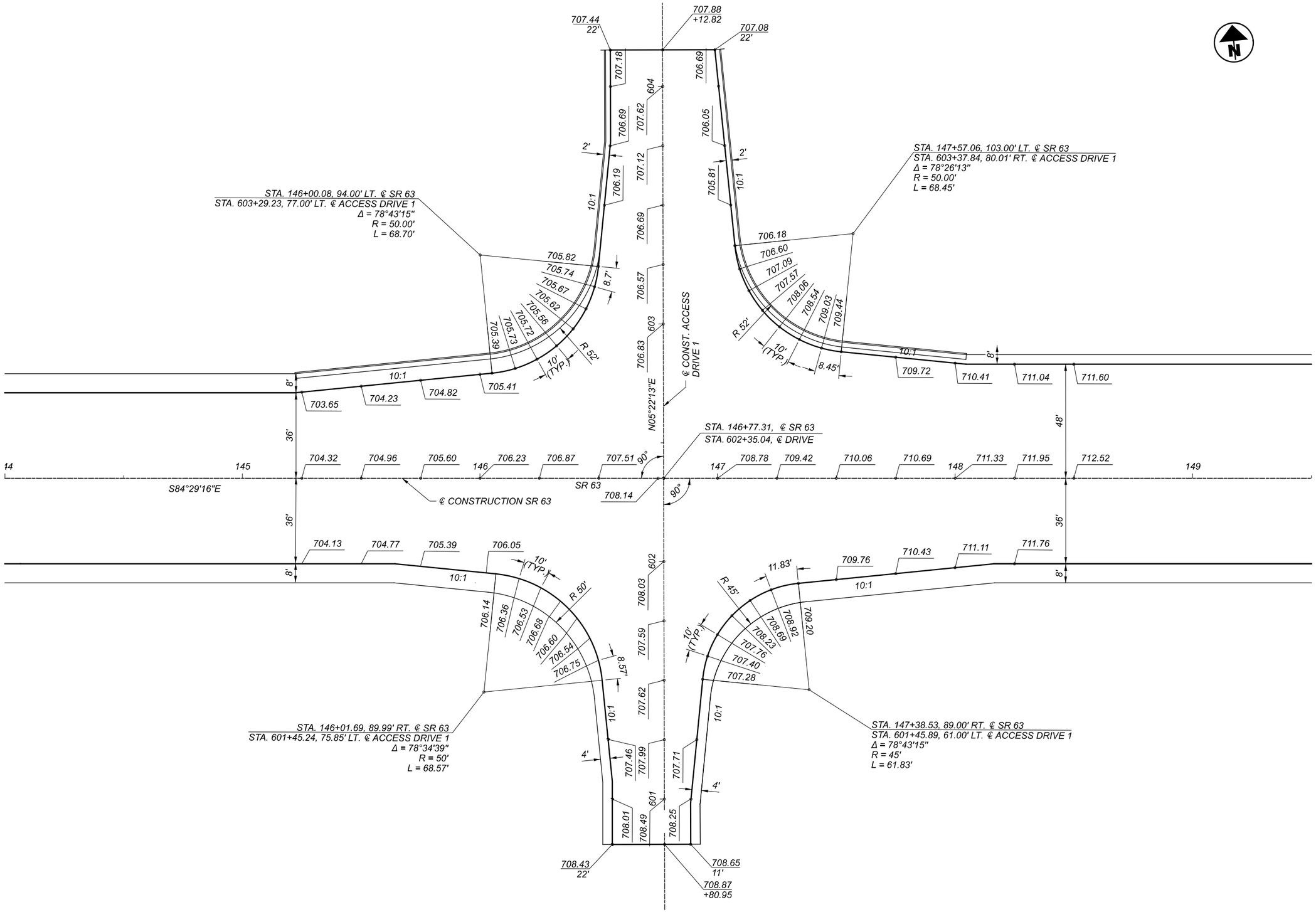
INTERSECTION DETAIL & PAVEMENT ELEVATION
SR 63 AND WARREN CORRECTIONAL INSTITUTION DRIVE

WAR-63-0.83

MODEL: CLP_SR63 - Plan (Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:02:13 PM USER: Tahir.Sondo@Jacobs.com
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DESIGN AGENCY
JACOBS

DESIGNER	KR
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	296
TOTAL	436



HORIZONTAL SCALE IN FEET
0 5 10 20

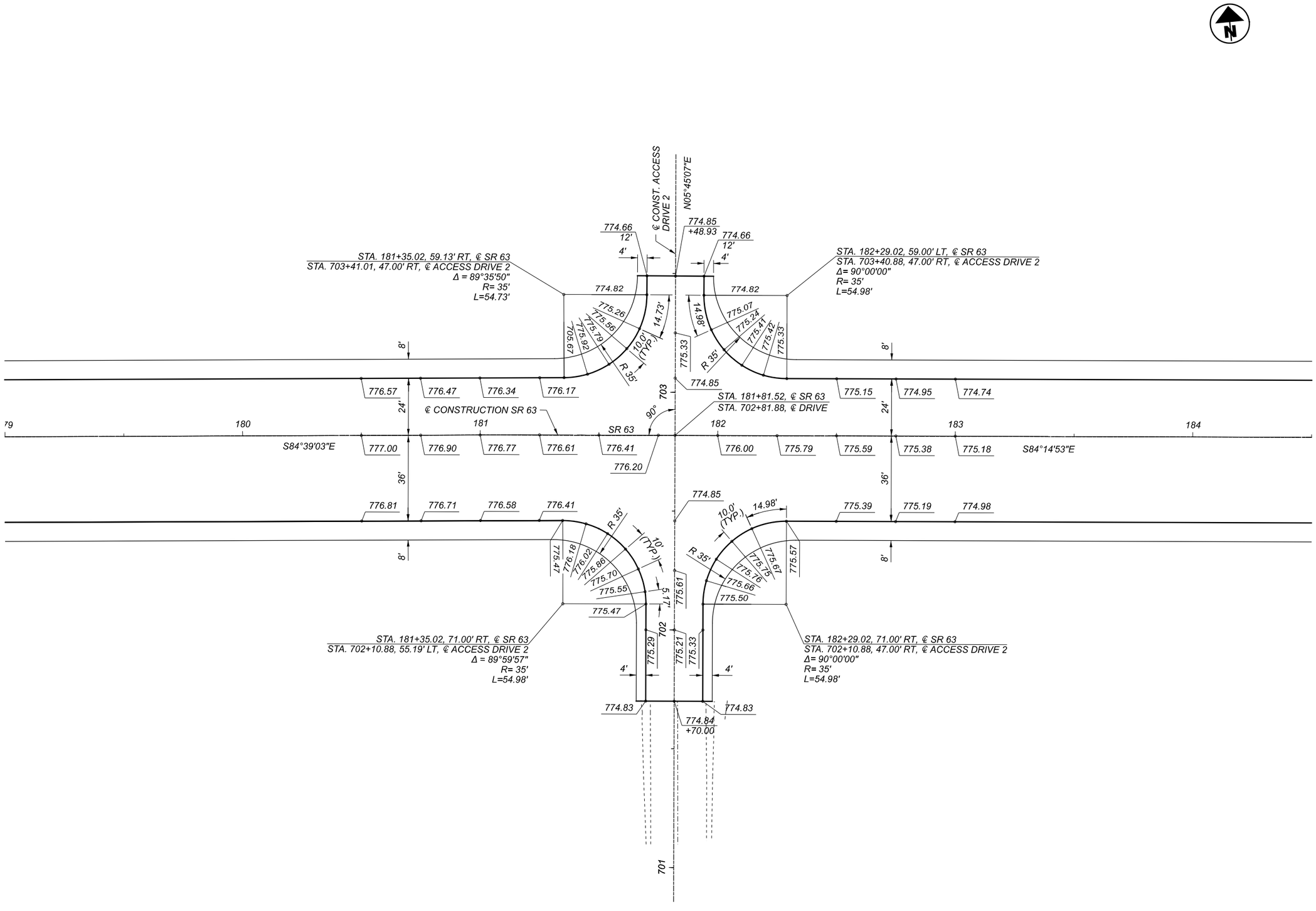
INTERSECTION DETAIL & PAVEMENT ELEVATION SR 63 AND ACCESS DRIVE 1

DESIGN AGENCY
JACOBS

DESIGNER	KR
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	297
TOTAL	436

WAR-63-0.83

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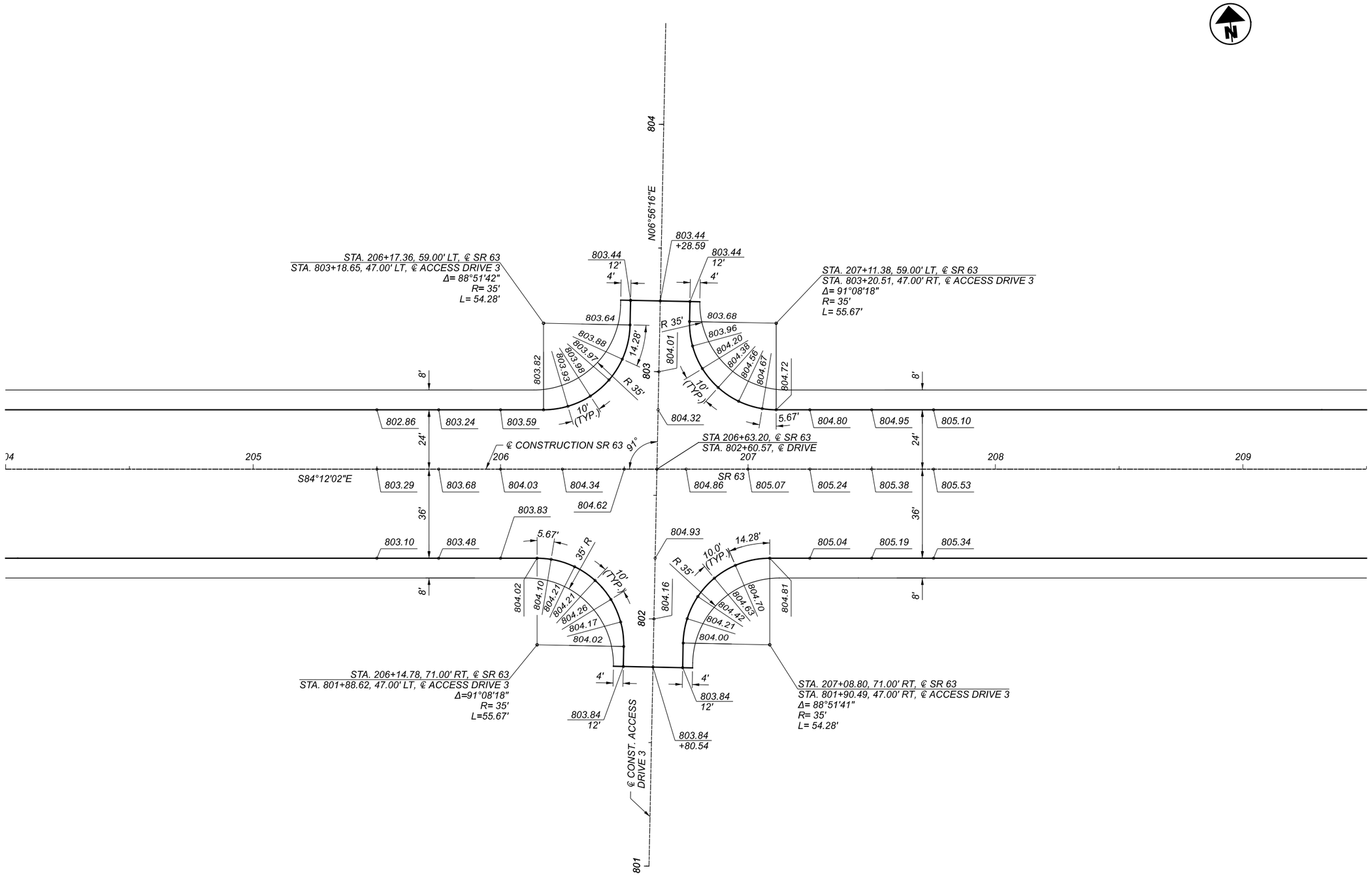
INTERSECTION DETAIL & PAVEMENT ELEVATION SR 63 AND ACCESS DRIVE 2

WAR-63-0.83

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DESIGN AGENCY
JACOBS

DESIGNER	KR
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	298
TOTAL	436



HORIZONTAL
SCALE IN FEET
0 10 20 40

INTERSECTION DETAIL & PAVEMENT ELEVATION
SR 63 AND ACCESS DRIVE 3

DESIGN AGENCY
JACOBS

DESIGNER
KR

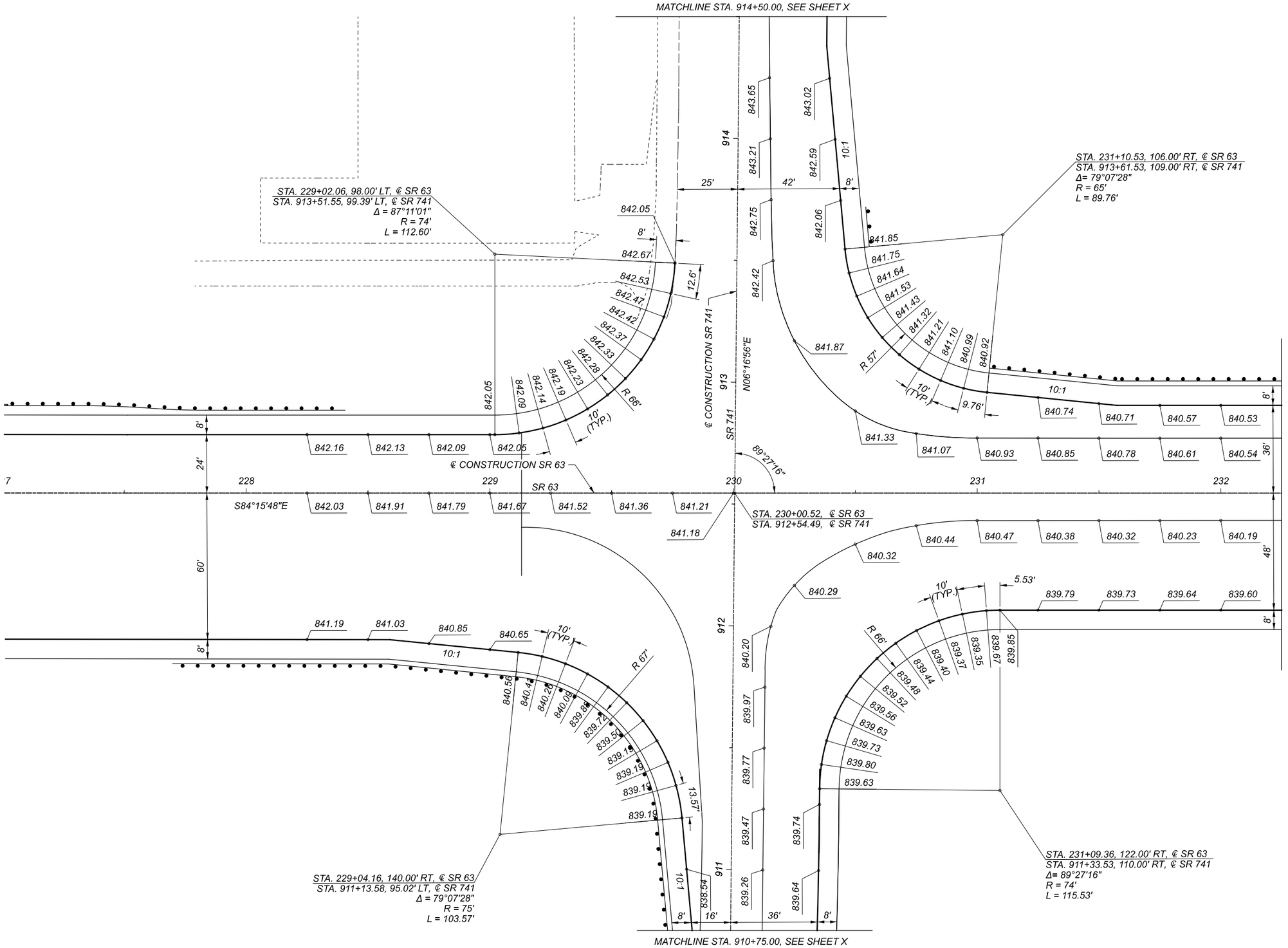
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 299 | TOTAL 436

WAR-63-0.83

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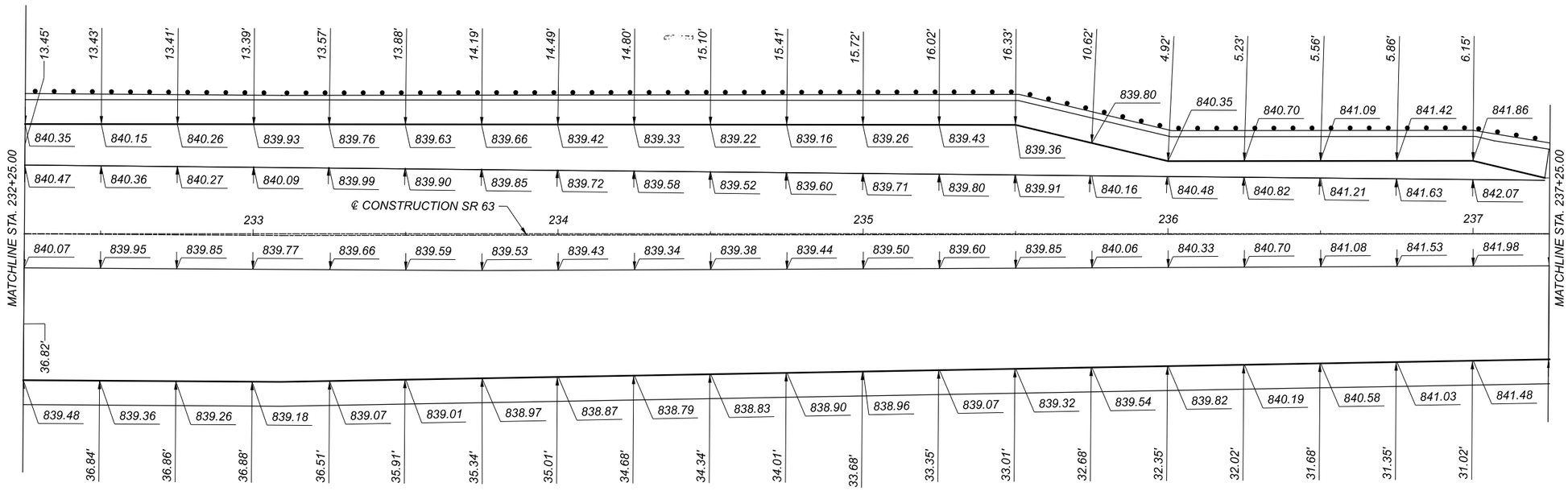
INTERSECTION DETAIL & PAVEMENT ELEVATION SR 63 AND SR 741

WAR-63-0.83

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DESIGN AGENCY
JACOBS

DESIGNER	KR
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	300
TOTAL	436



HORIZONTAL SCALE IN FEET
0 10 20 40

PAVEMENT ELEVATION
SR 63

DESIGN AGENCY
JACOBS

DESIGNER
TES

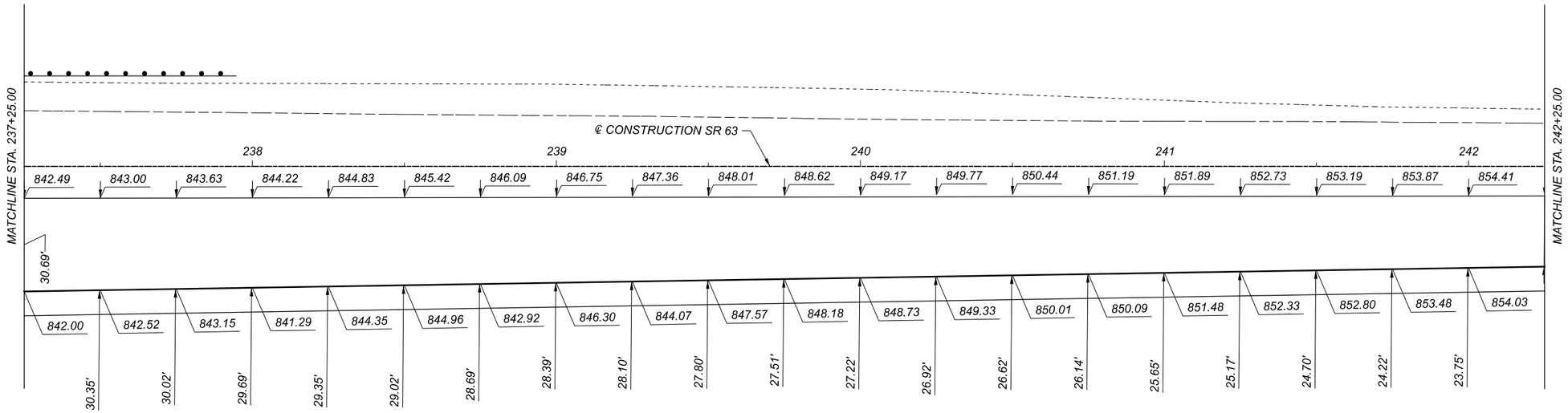
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 301 TOTAL 436

WAR-63-0.83

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HORIZONTAL
SCALE IN FEET
0 10 20 40

PAVEMENT ELEVATION
SR 63

WAR-63-0.83

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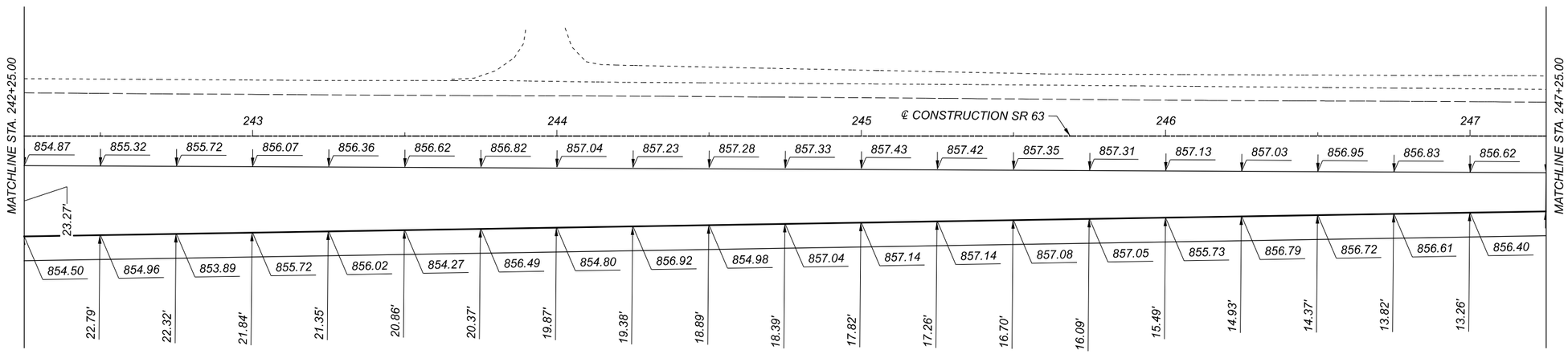
DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 302 | TOTAL 436



HORIZONTAL SCALE IN FEET
0 10 20 40

PAVEMENT ELEVATION SR 63

WAR-63-0.83

MODEL: CLP_SR63 - Plan (Sheet) PAPERSIZE: 17x11(in) DATE: 8/23/2023 TIME: 4:03:56 PM USER: Tahir.Sondoe@jacobs.com
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DESIGN AGENCY
JACOBS

DESIGNER	TES
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	303
TOTAL	436

HORIZONTAL
SCALE IN FEET
0 10 20 40

PAVEMENT ELEVATION
SR 63

DESIGN AGENCY
JACOBS

DESIGNER
TES

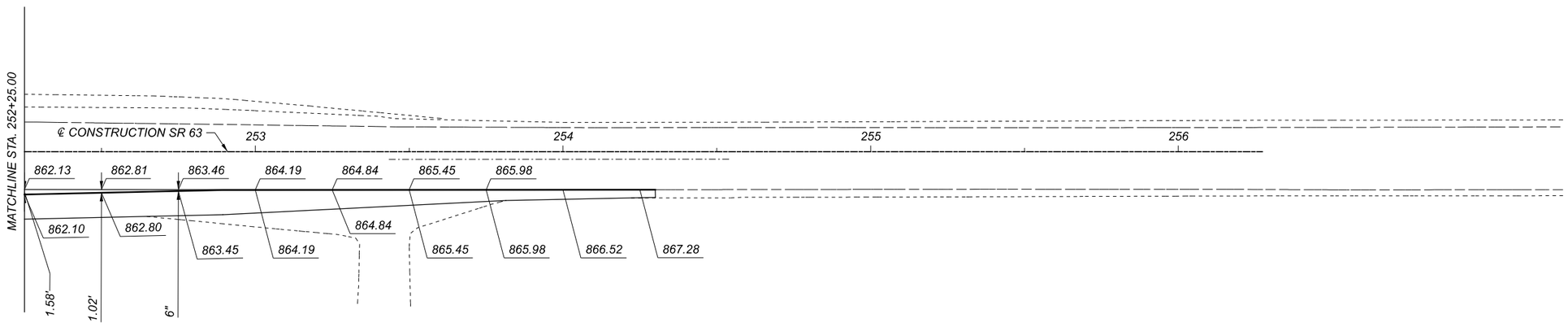
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 304 | TOTAL 436

WAR-63-0.83

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HORIZONTAL SCALE IN FEET
0 10 20 40

PAVEMENT ELEVATION
SR 63

WAR-63-0.83

MODEL: CLP_SR63 - Plan (1Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:04:25 PM USER: Tahir.Sondo@Jacobs.com
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DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 305 | TOTAL 436

HORIZONTAL
SCALE IN FEET
0 10 20 40

PAVEMENT ELEVATION
SR 741

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 306 TOTAL 436

WAR-63-0.83

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HORIZONTAL
SCALE IN FEET
0 10 20 40

PAVEMENT ELEVATION
SR 741

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
RN 08/22/23

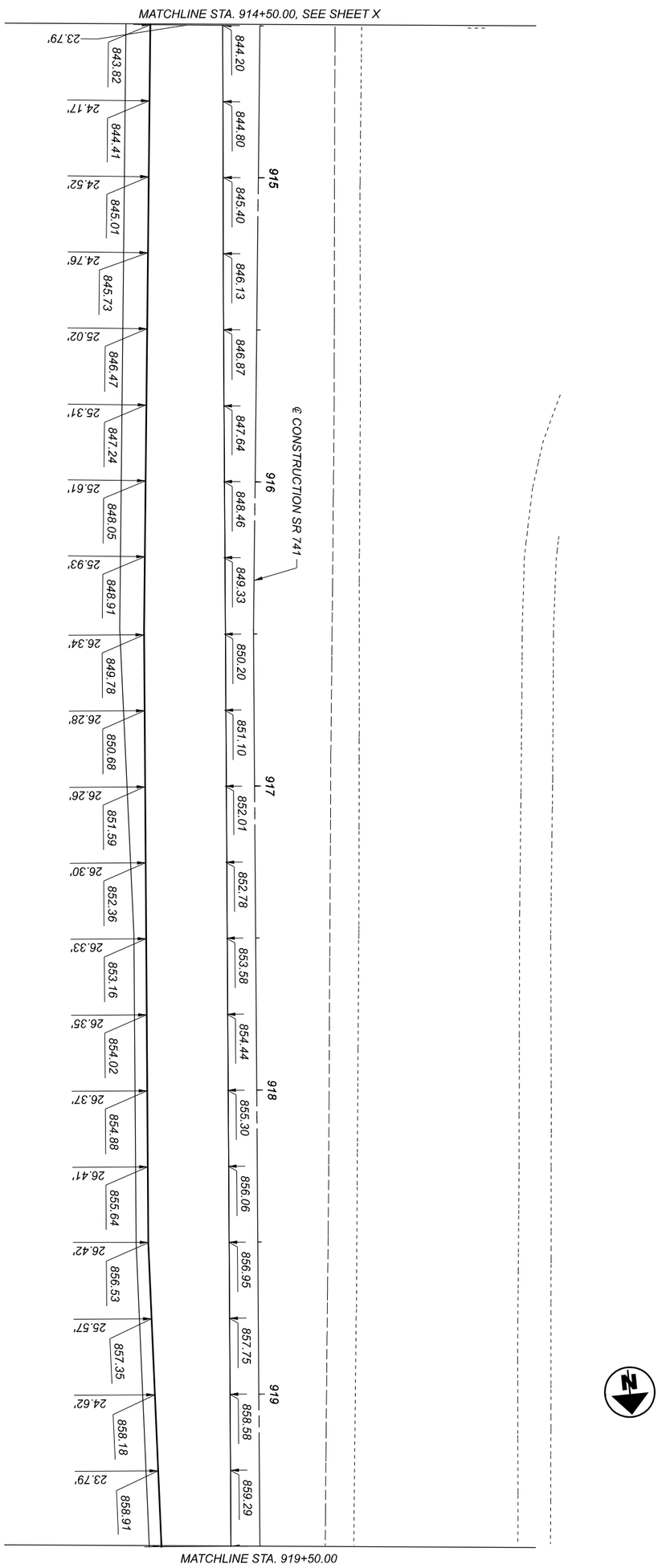
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SHEET 307 TOTAL 436

WAR-63-0.83

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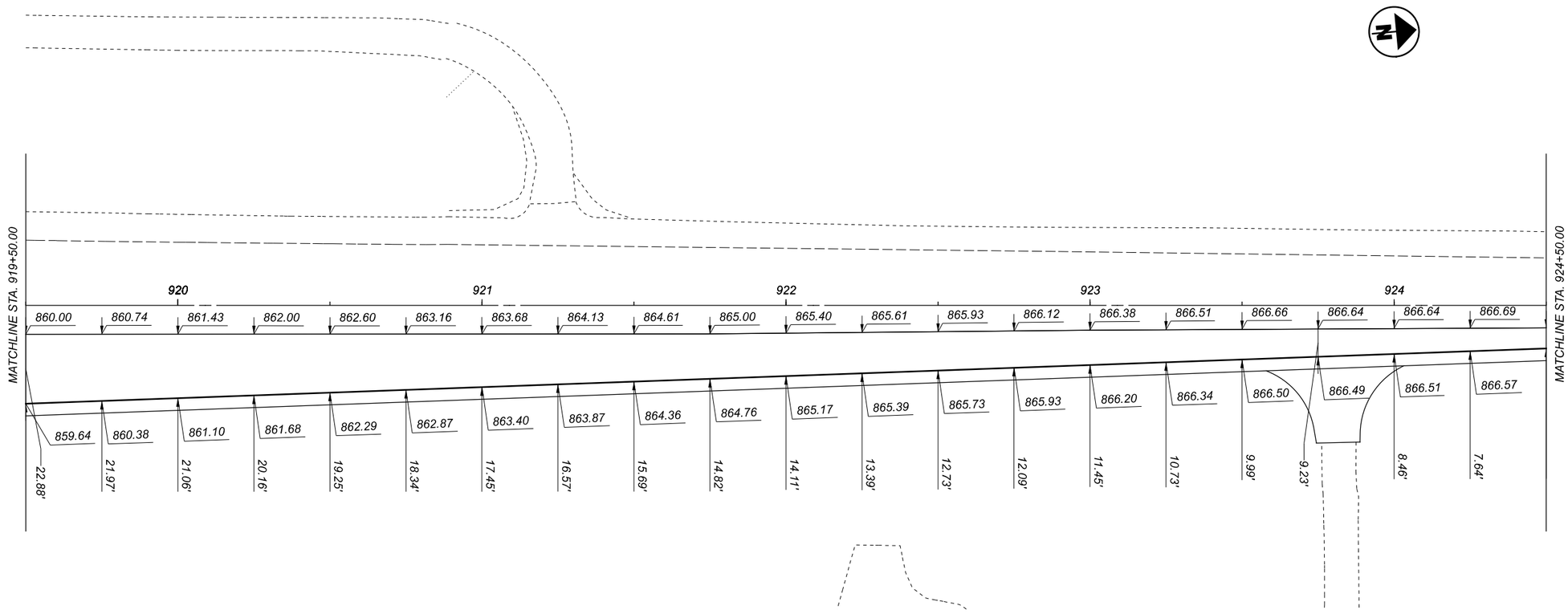
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DESIGNER TES
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 308 TOTAL 436
DESIGN AGENCY JACOBS

PAVEMENT ELEVATION
SR 741

HORIZONTAL SCALE IN FEET
0 20
10 40



HORIZONTAL SCALE IN FEET
0 10 20 40

PAVEMENT ELEVATION
SR 741

WAR-63-0.83

MODEL: CLP_SR74IF - Plan (Sheet) PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:05:26 PM USER: Tahir.Sondo@jacobs.com
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DESIGN AGENCY
JACOBS

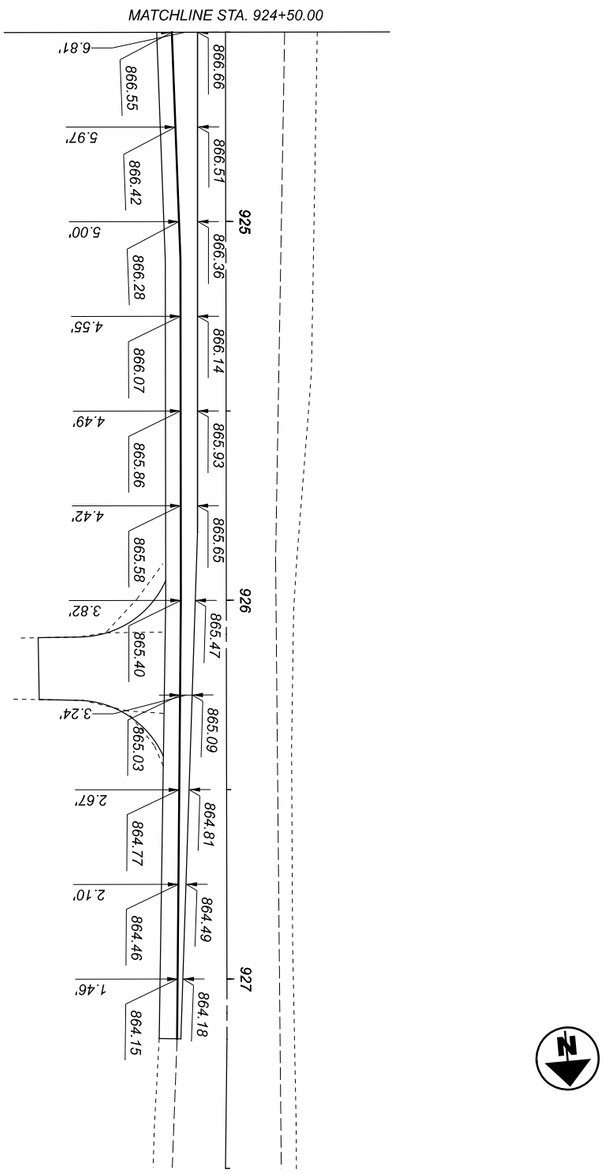
DESIGNER
TES

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 309 | TOTAL 436

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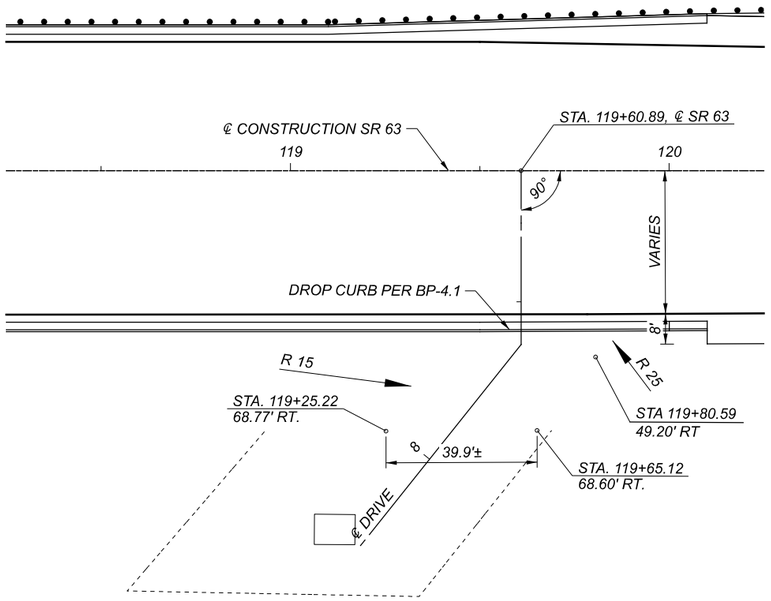


PAVEMENT ELEVATION
SR 741

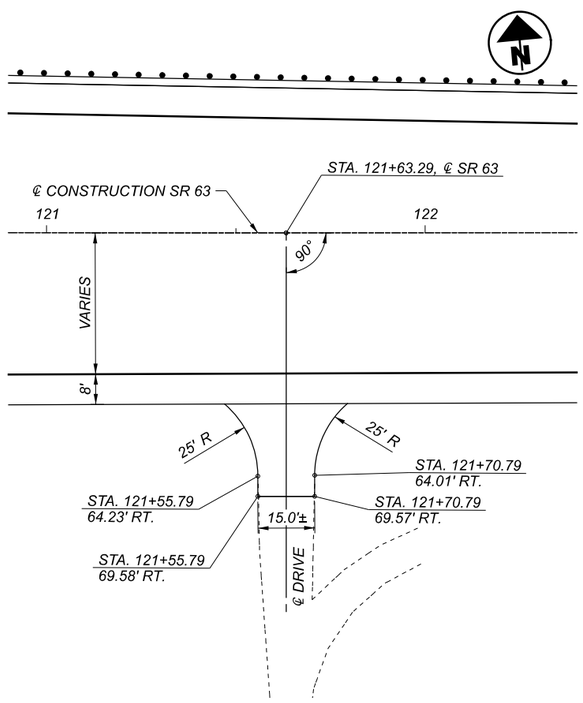
HORIZONTAL SCALE IN FEET
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10 40

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
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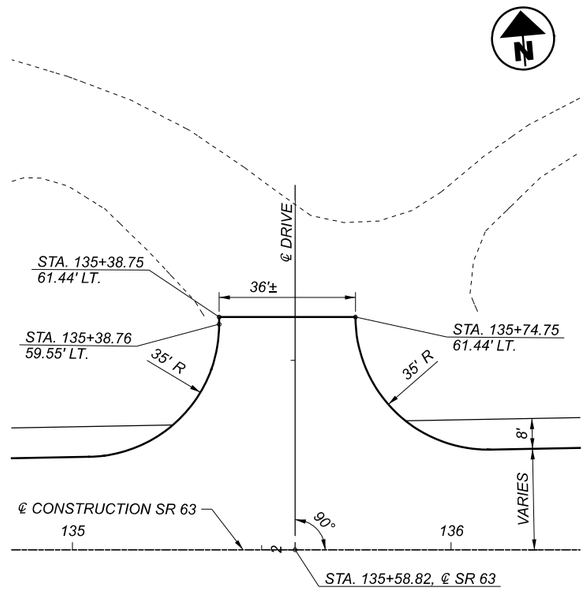
DESIGN AGENCY
JACOBS



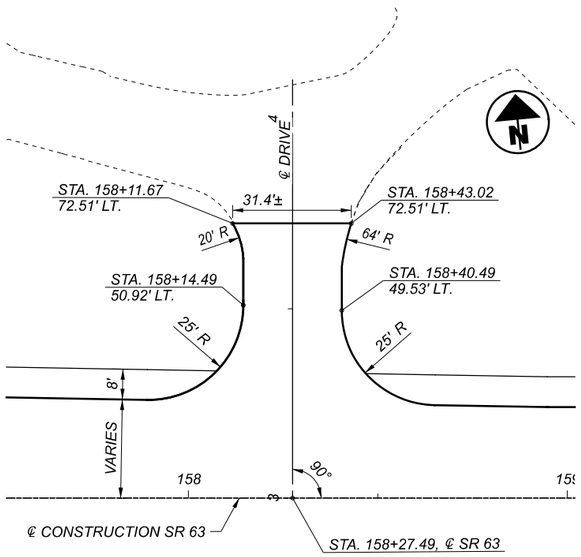
DR-1 **SR. 63, STA. 119+60.89 RT.**
FIELD DRIVE



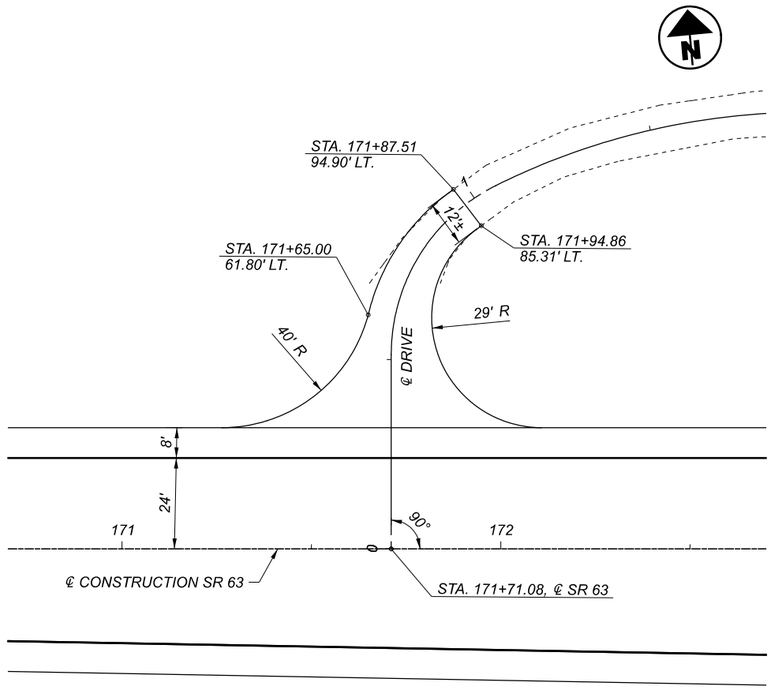
DR-1A **SR 63, STA. 121+63.29 RT.**
FIELD DRIVE



DR-2 **SR 63, STA. 135+58.82 LT.**
ASPHALT DRIVE



DR-3 **SR 63, STA. 158+27.49 LT.**
ASPHALT DRIVE



DR-3A **SR 63, STA. 171+71.08 LT.**
FIELD DRIVE

FIELD DRIVEWAY PAVEMENT DESIGN

ITEM 304 6" AGGREGATE

ASPHALT DRIVEWAY PAVEMENT DESIGN

ITEM 441 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG 64-22

ITEM 407 TACK COAT

ITEM 301 5" ASPHALT CONCRETE BASE, PG 64-22, (449), (DRIVEWAYS)

NOTE:

1. FOR DRIVE PROFILES SEE SHEET NO. 315, 315A

2. FOR DRIVE SUBSUMMARY SEE SHEET NO. 81

HORIZONTAL SCALE IN FEET
0 10 20 40

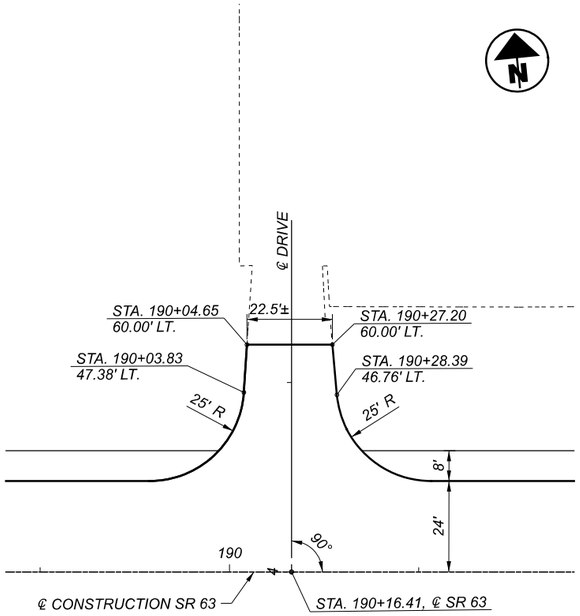
DRIVE DETAILS SR 63 AND SR 741

WAR-63-0.83

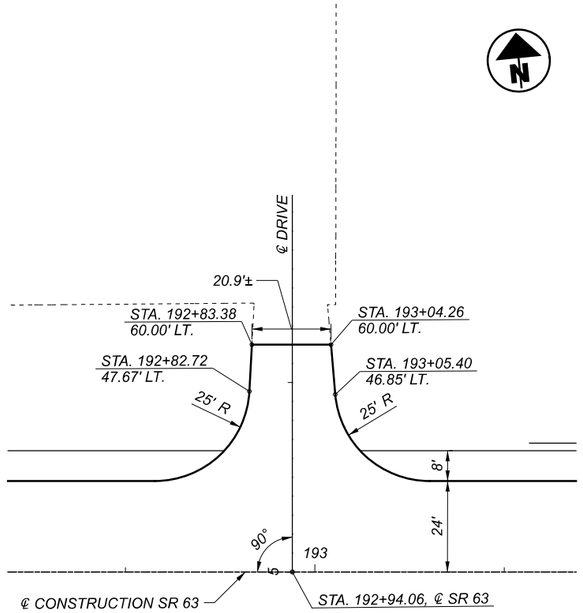
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DESIGN AGENCY
JACOBS

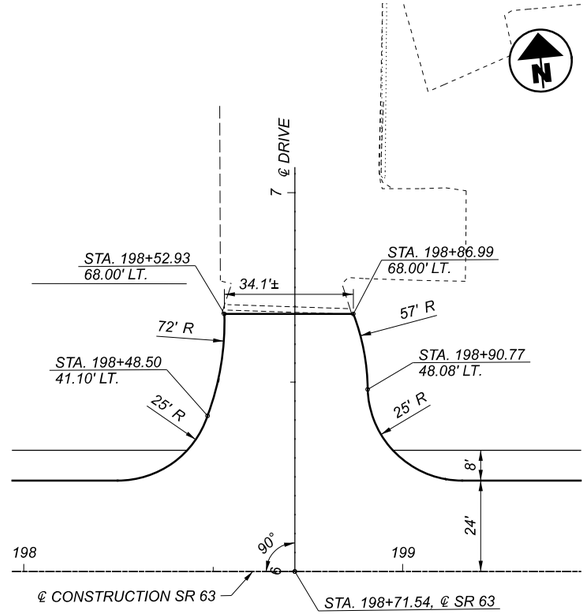
DESIGNER	
KR	
REVIEWER	
RN	08/22/23
PROJECT ID	
112121	
SHEET	TOTAL
311	436



DR-4 **SR 63, STA. 190+16.41 LT.**
ASPHALT DRIVE



DR-5 **SR 63, STA. 192+94.06 LT.**
ASPHALT DRIVE



DR-6 **SR 63, STA. 198+71.54 LT.**
ASPHALT DRIVE

NOTE:

1. FOR DRIVE PROFILES SEE SHEET NO. 315, 315A

2. FOR PAVEMENT LEGEND SEE SHEET NO. 311

3. FOR DRIVE SUBSUMMARY SEE SHEET NO. 81

HORIZONTAL
SCALE IN FEET
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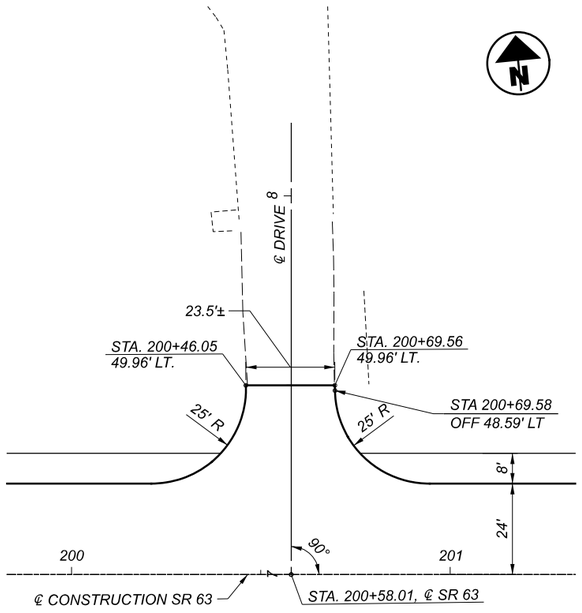
DRIVE DETAILS
SR 63 AND SR 741

DESIGN AGENCY
JACOBS

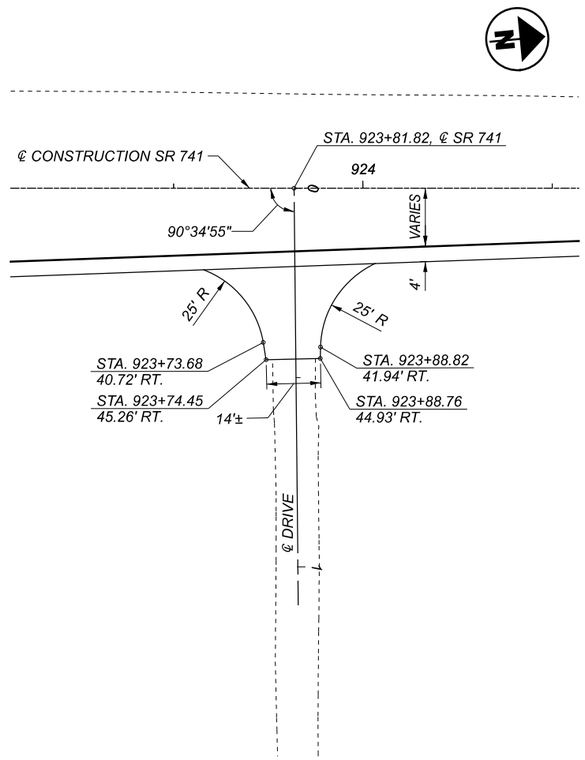
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REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 312 TOTAL 436

WAR-63-0.83

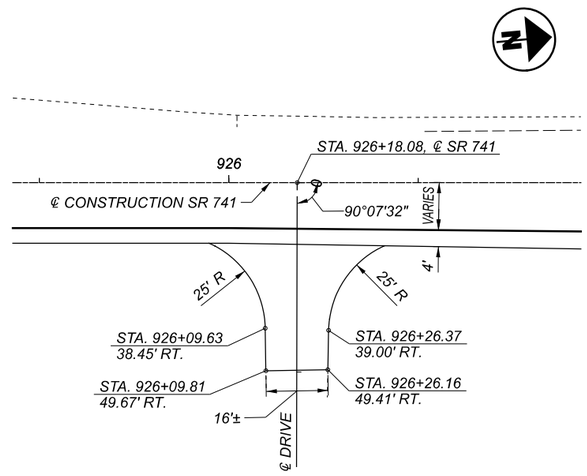
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DR-7 **SR 63, STA. 200+58.00 LT.**
ASPHALT DRIVE



DR-8 **SR 741, STA. 923+81.82 RT.**
ASPHALT DRIVE



DR-9 **SR 741, STA. 926+18.08 RT.**
ASPHALT DRIVE

NOTE:

1. FOR DRIVE PROFILES SEE SHEET NO. 315, 315A

2. FOR PAVEMENT LEGEND SEE SHEET NO. 311

3. FOR DRIVE SUBSUMMARY SEE SHEET NO. 81

HORIZONTAL SCALE IN FEET
0 10 20 40

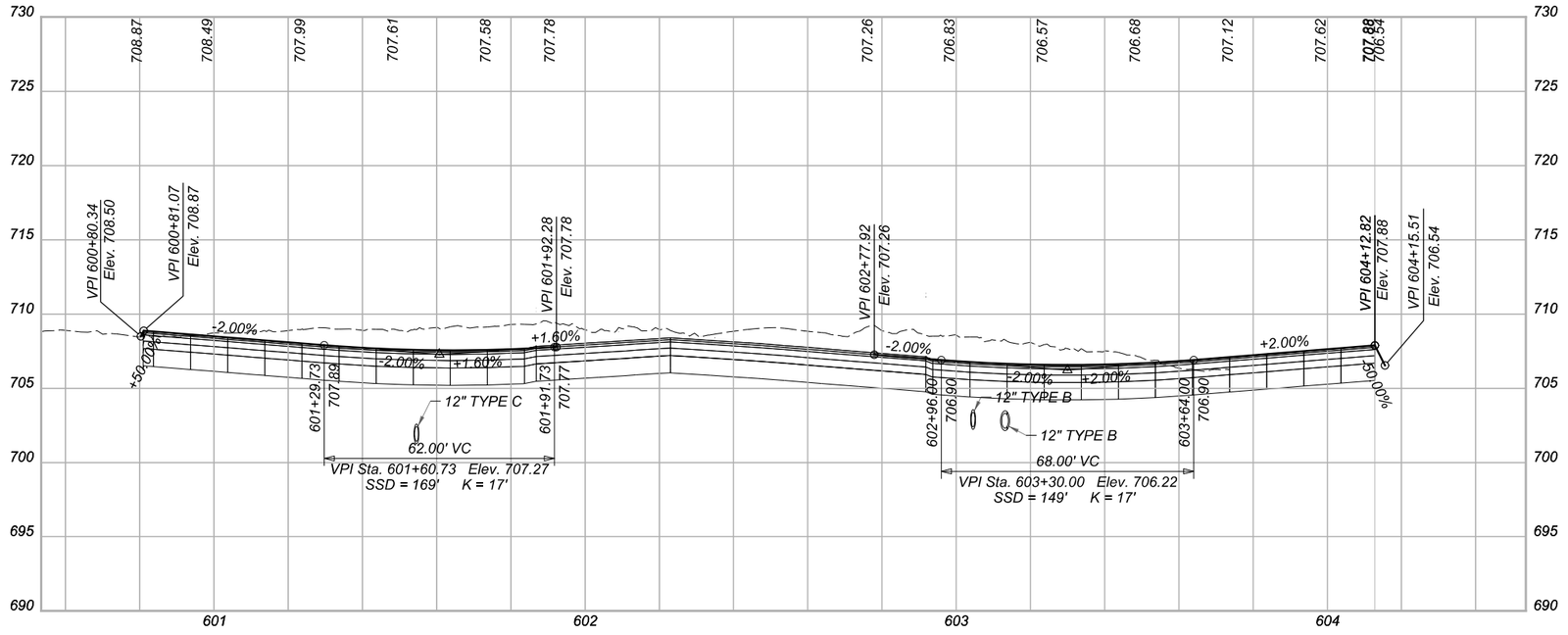
DRIVE DETAILS
SR 63 AND SR 741

DESIGN AGENCY
JACOBS

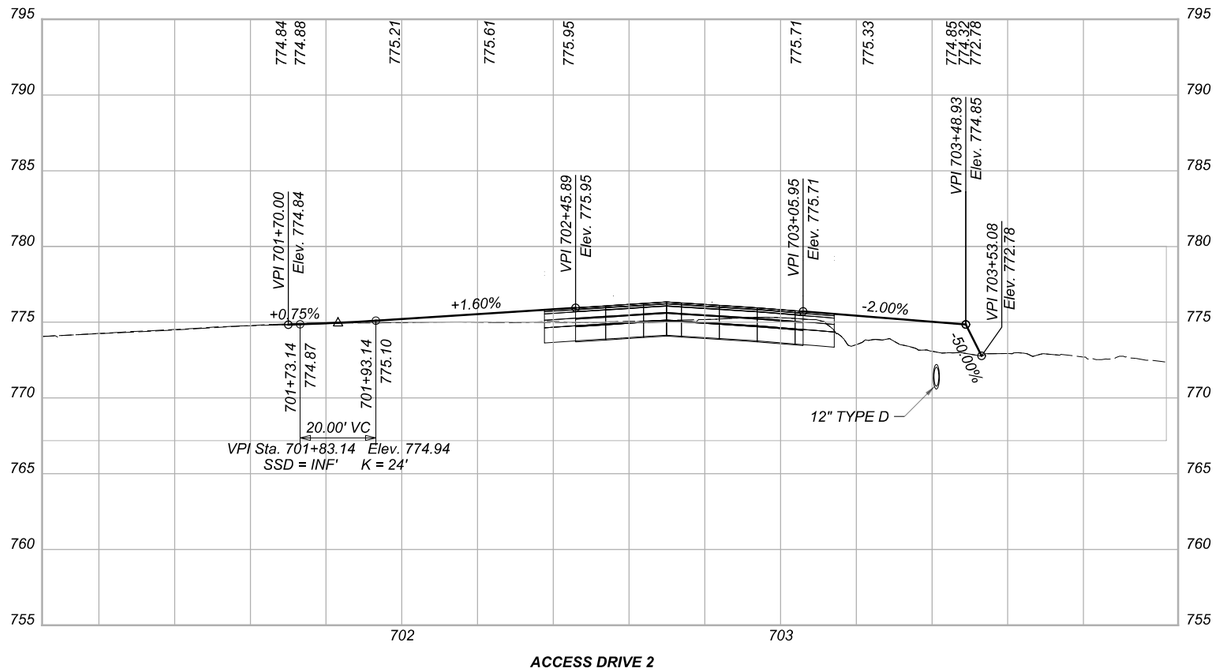
DESIGNER KR
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 313 TOTAL 436

WAR-63-0.83

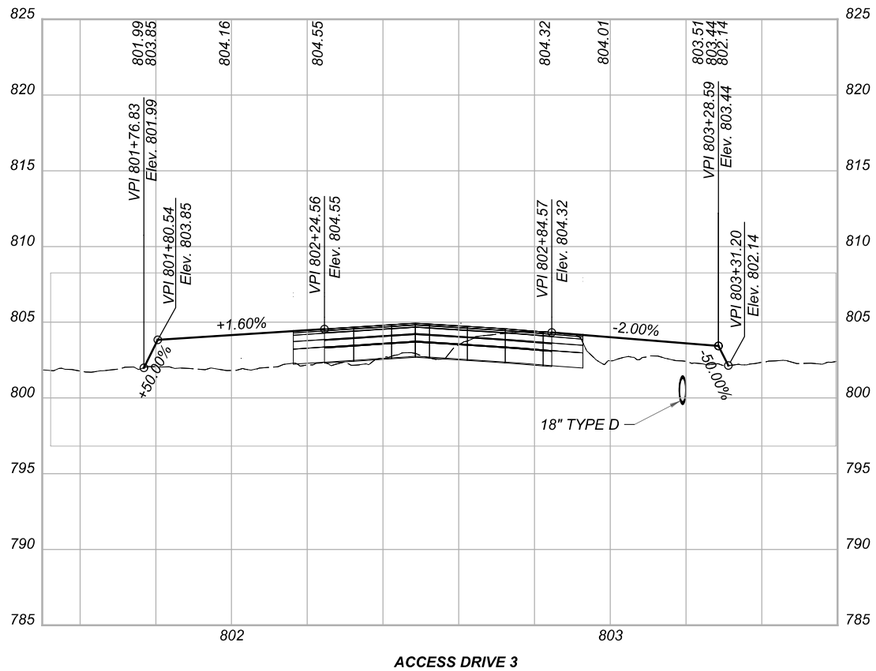
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ACCESS DRIVE 1



ACCESS DRIVE 2



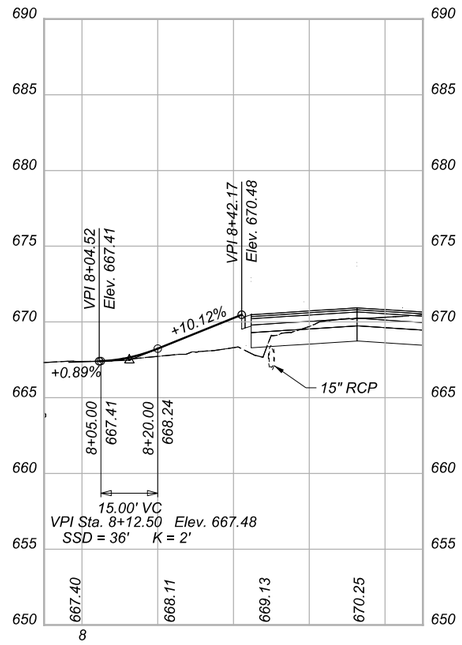
ACCESS DRIVE 3

PROFILE
ACCESS DRIVE 1, ACCESS DRIVE 2, AND ACCESS DRIVE 3

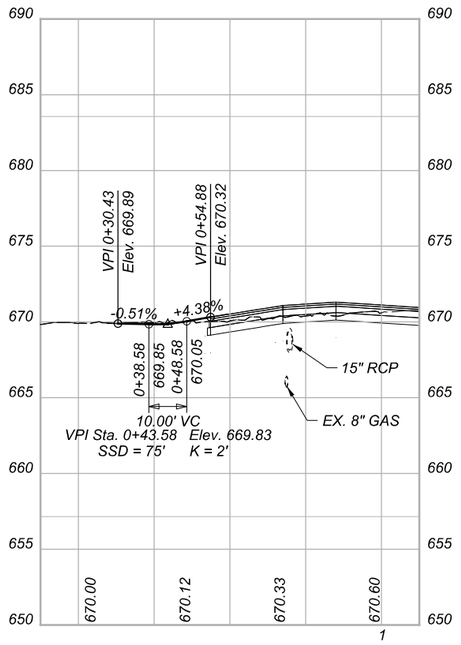
DESIGN AGENCY	JACOBS
DESIGNER	KR
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	314
TOTAL	436

WAR-63-0.83

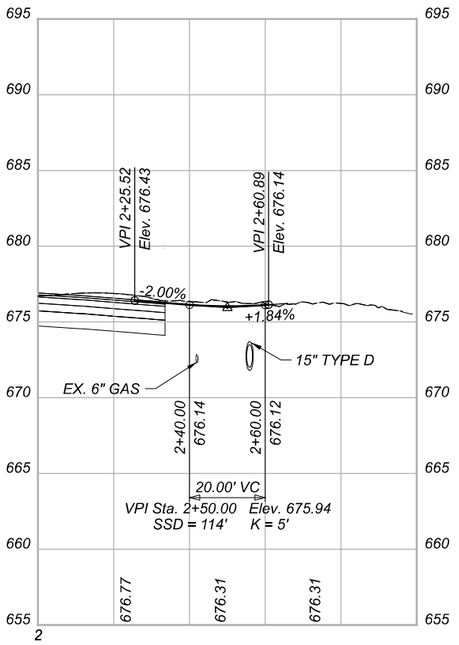
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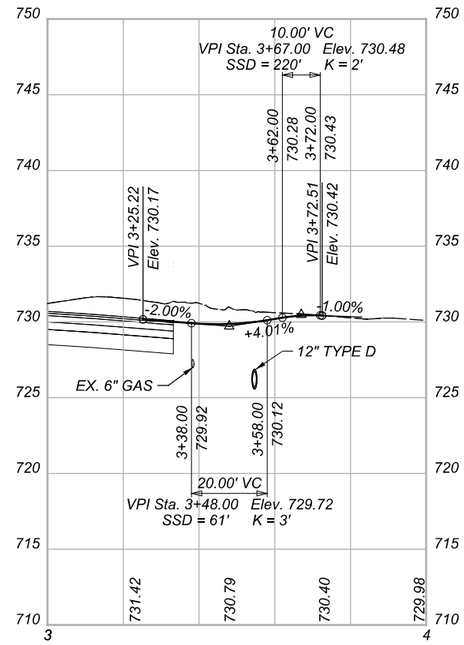
SR. 63, STA. 119+60.89 RT



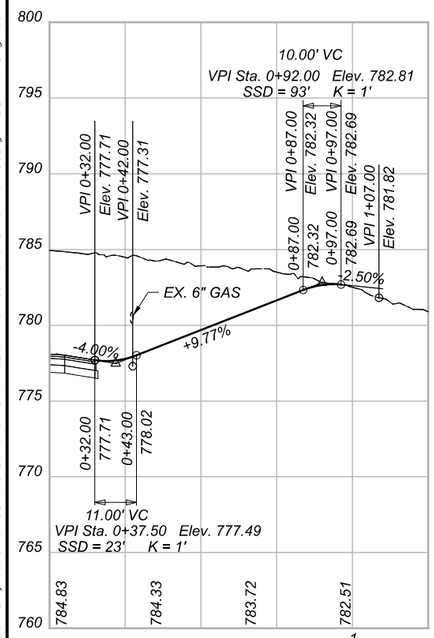
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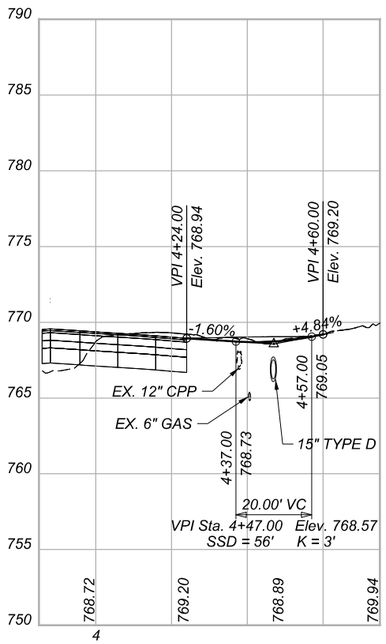
SR. 63, STA. 135+58.82 LT.



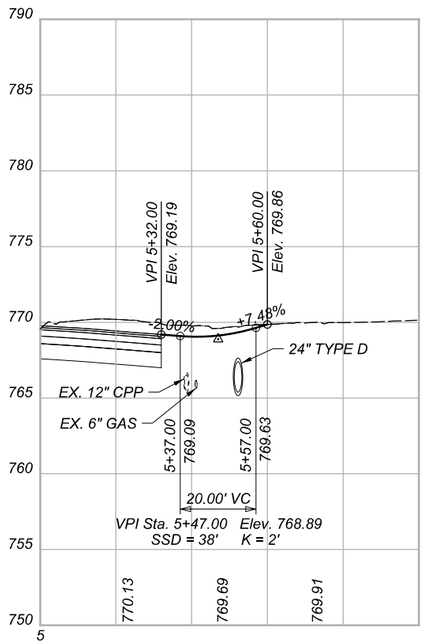
SR 63, STA. 158+27.49 LT.



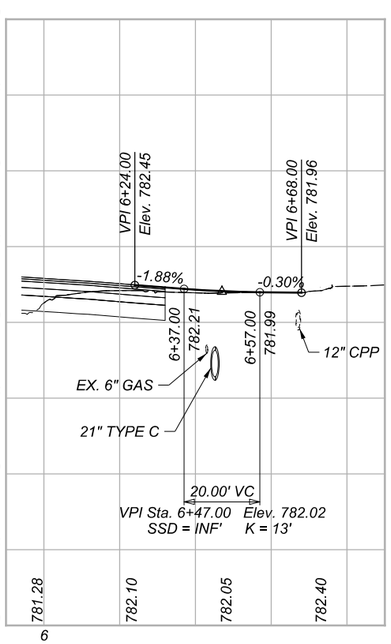
SR 63, STA. 171+71.08 LT.



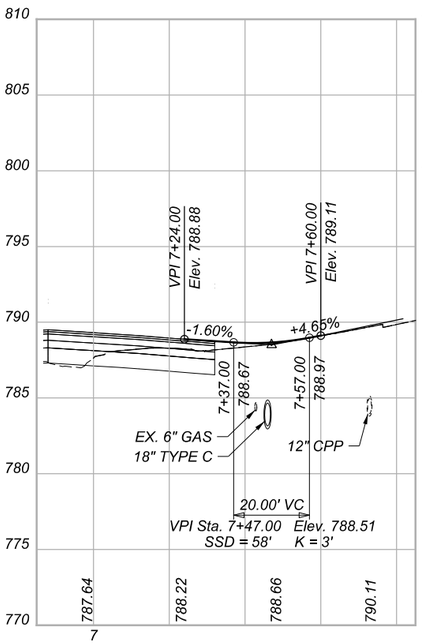
SR 63, STA. 190+16.41 LT.



SR 63, STA. 192+94.06 LT.



SR 63, STA. 198+71.54 LT.



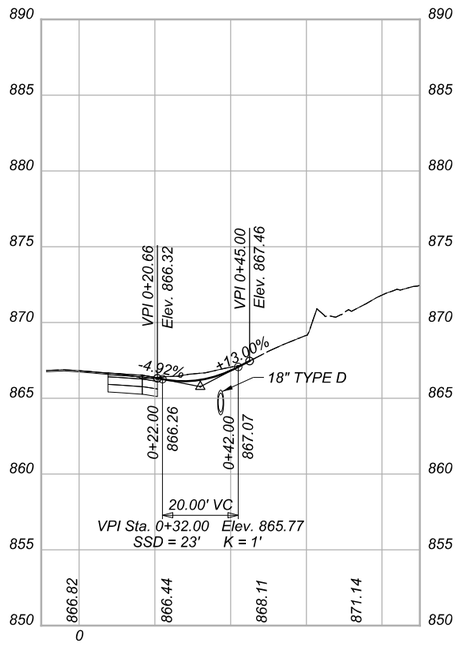
SR 63, STA. 200+58.00 LT.

DRIVE PROFILES
SR 63

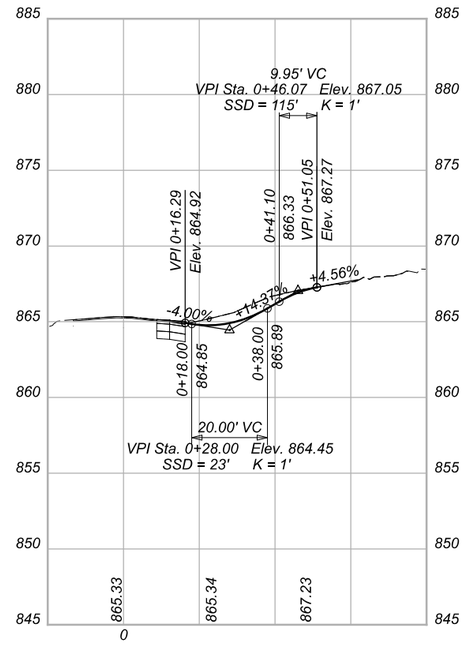
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MODEL: DRIVEWAY - Profile 1-7 [SHEET] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:07:03 PM USER: Tahir.Sondo@Jacobs.com
pw:\\ProjectWiseAMER.Jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Roadway\Sheets\112121_GF400.dgn

DESIGN AGENCY	JACOBS
DESIGNER	KR
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	315
TOTAL	436



SR 741, STA. 923+81.82 RT.



SR 741, STA. 926+18.08 RT.

DRIVE PROFILES
SR 741

WAR-63-0.83

MODEL: DRIVEWAY - Profile 8 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:07:31 PM USER: Tahir.Sondo@Jacobs.com
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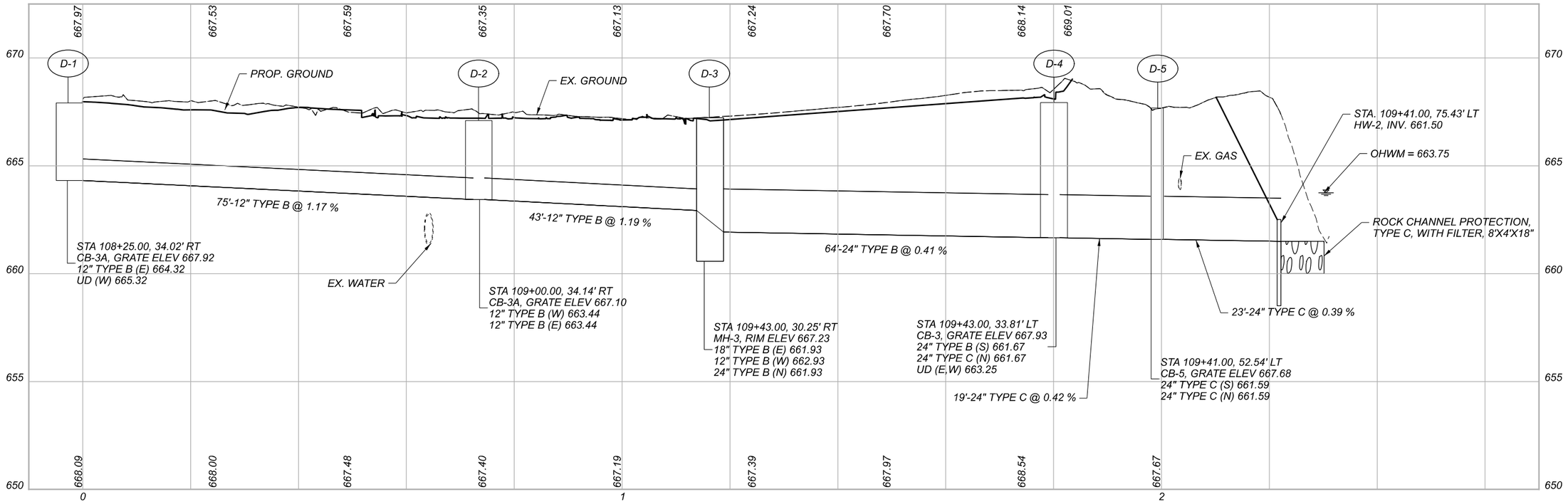
DESIGN AGENCY
JACOBS

DESIGNER
KR

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 315A | TOTAL 436



DRAINAGE PROFILES

WAR-63-0.83

MODEL: Storm Sewer Profile Sta 108+25 to 109+41 - Sheet PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:07:49 PM USER: Tahir.Sondo@Jacobs.com
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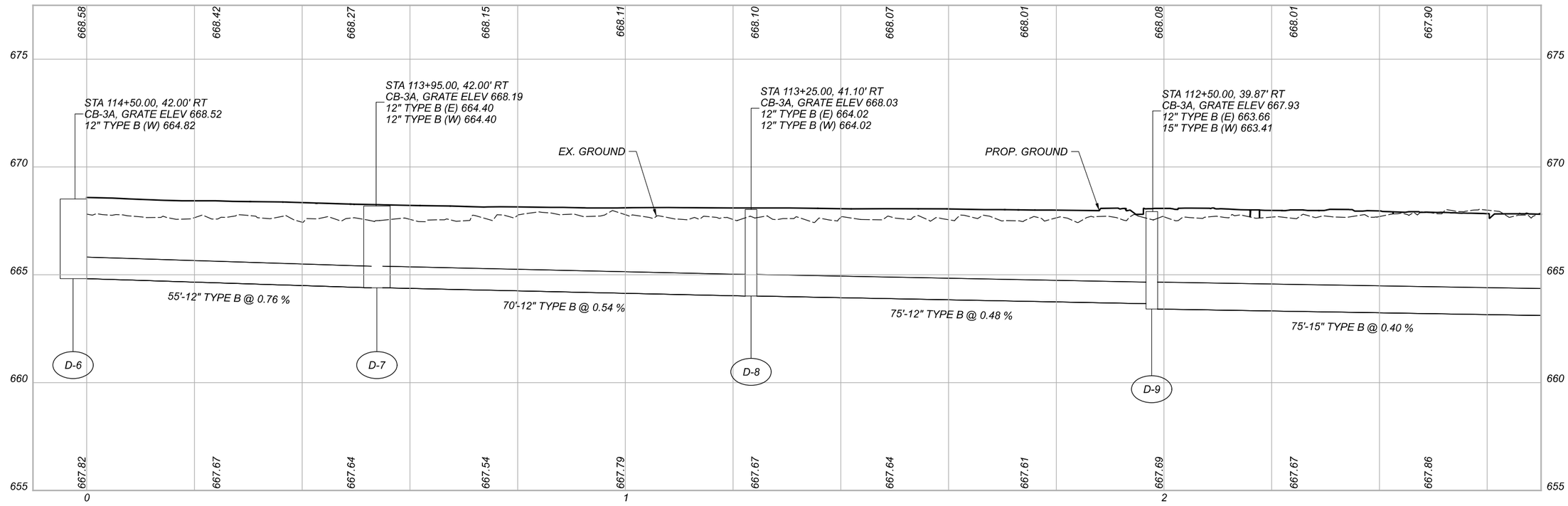
DESIGN AGENCY
JACOBS

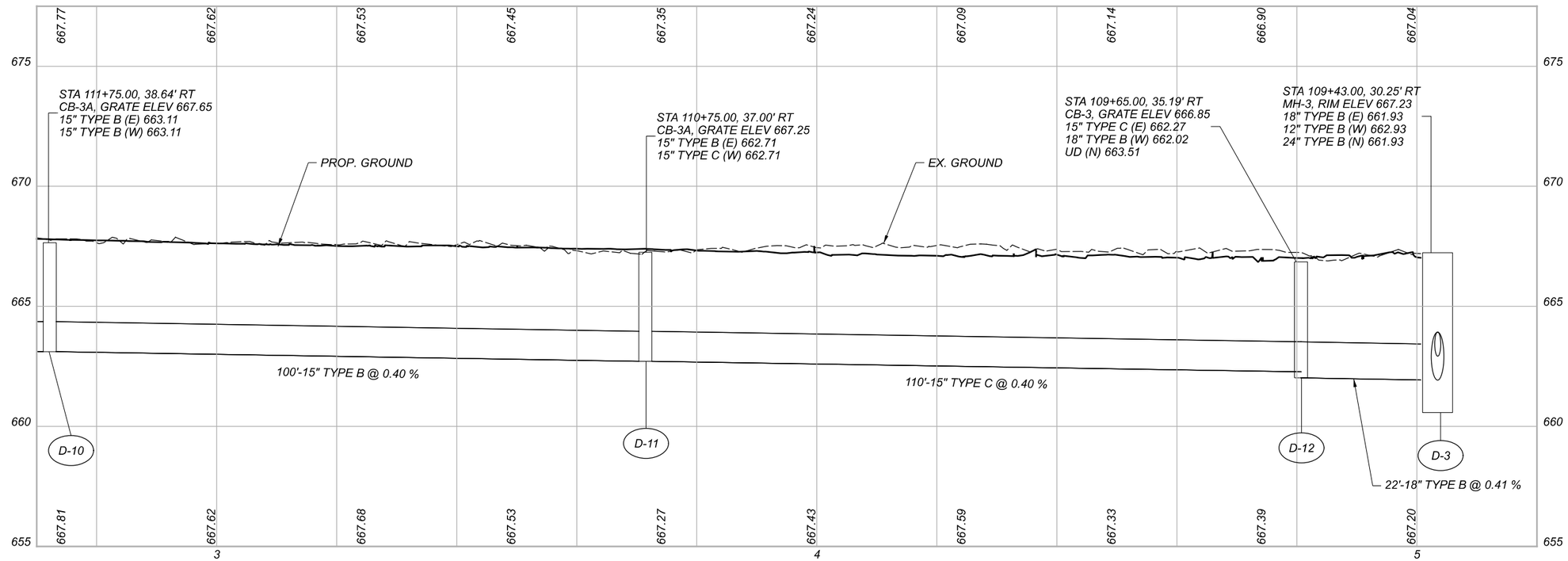
DESIGNER
TES

REVIEWER
CTS 08/22/23

PROJECT ID
112121

SHEET 316 | TOTAL 436





DRAINAGE PROFILES

WAR-63-0.83

MODEL: Storm Sewer Profile Sta 114+50 to 109+43 - Sheet PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:07:52 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Drainage\Sheets\112121_DF000.dgn

DESIGN AGENCY
JACOBS

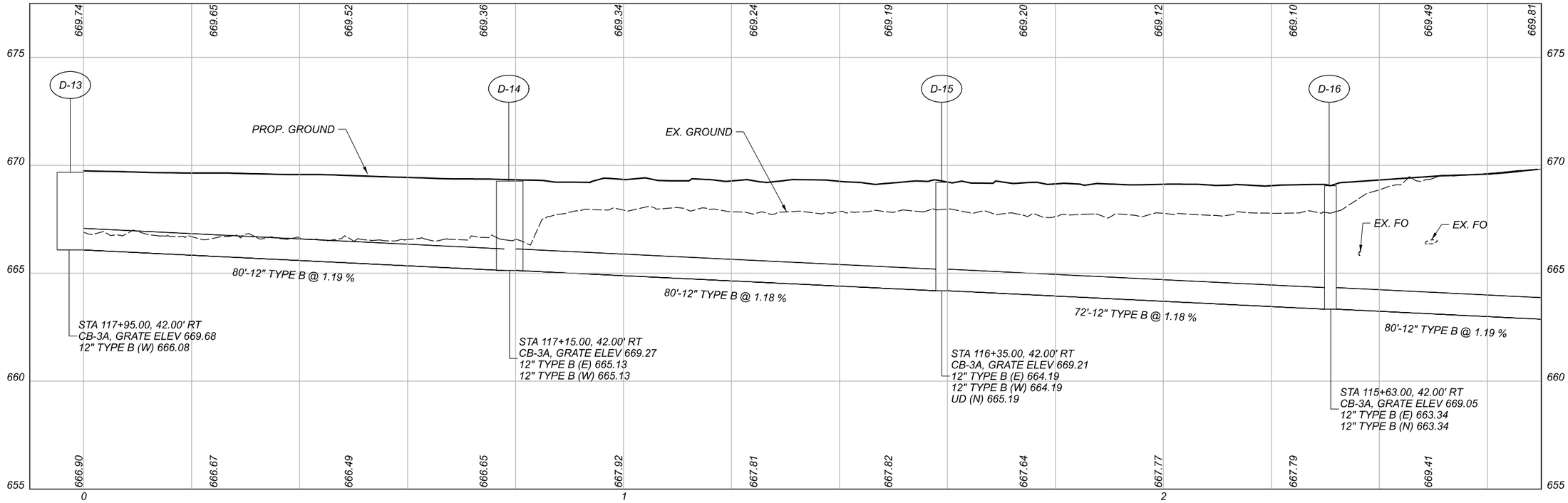
DESIGNER
TES

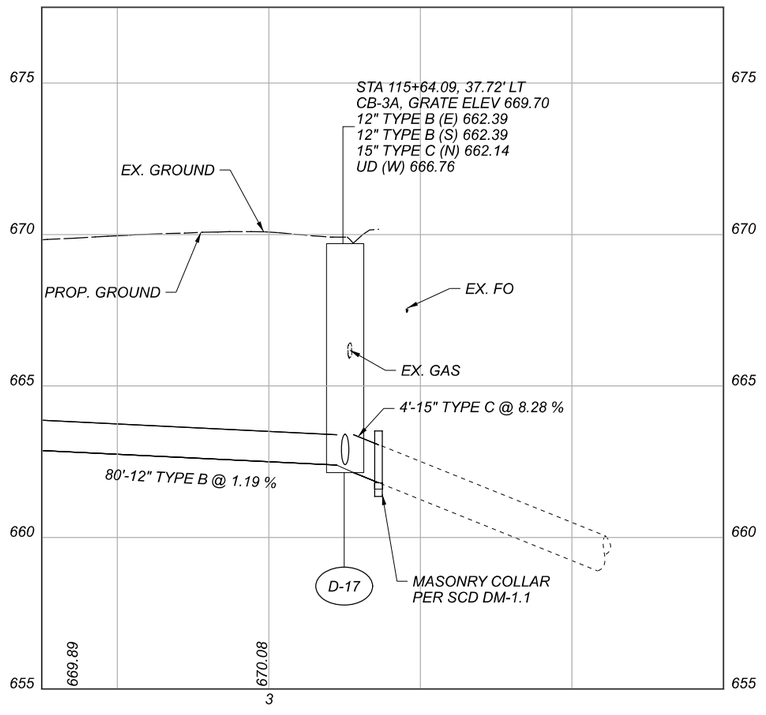
REVIEWER
CTS 08/22/23

PROJECT ID
112121

SHEET 317 | TOTAL 436

DRAINAGE PROFILES

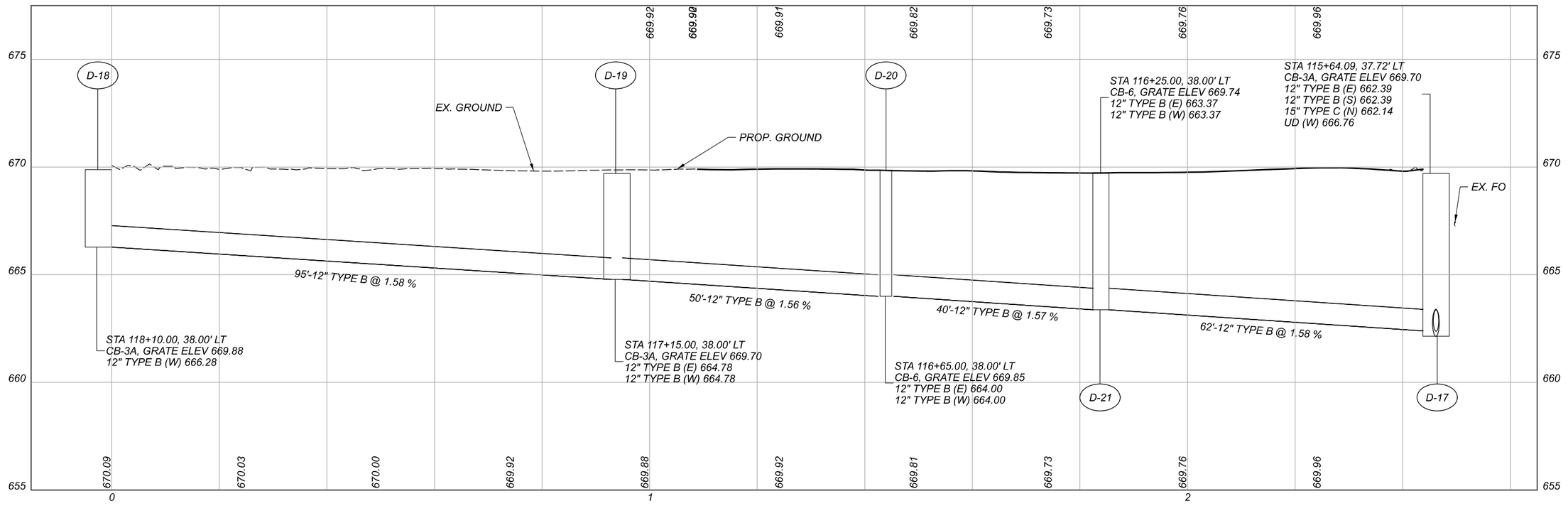




DESIGN AGENCY	JACOBS
DESIGNER	TES
REVIEWER	CTS 08/22/23
PROJECT ID	112121
SHEET	318
TOTAL	436

WAR-63-0.83

MODEL: Storm Sewer Profile Sta 117+95 to 115+64 - Sheet PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:07:56 PM USER: Tahir.Sondo@Jacobs.com
pw:\\Project=WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Drainage\Sheets\112121_DF000.dgn



DRAINAGE PROFILES

WAR-63-0.83

MODEL: Storm Sewer Profile Sta 118+10 to 115+64 - Sheet PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:07:59 PM USER: Tahir.Sondo@jacobs.com
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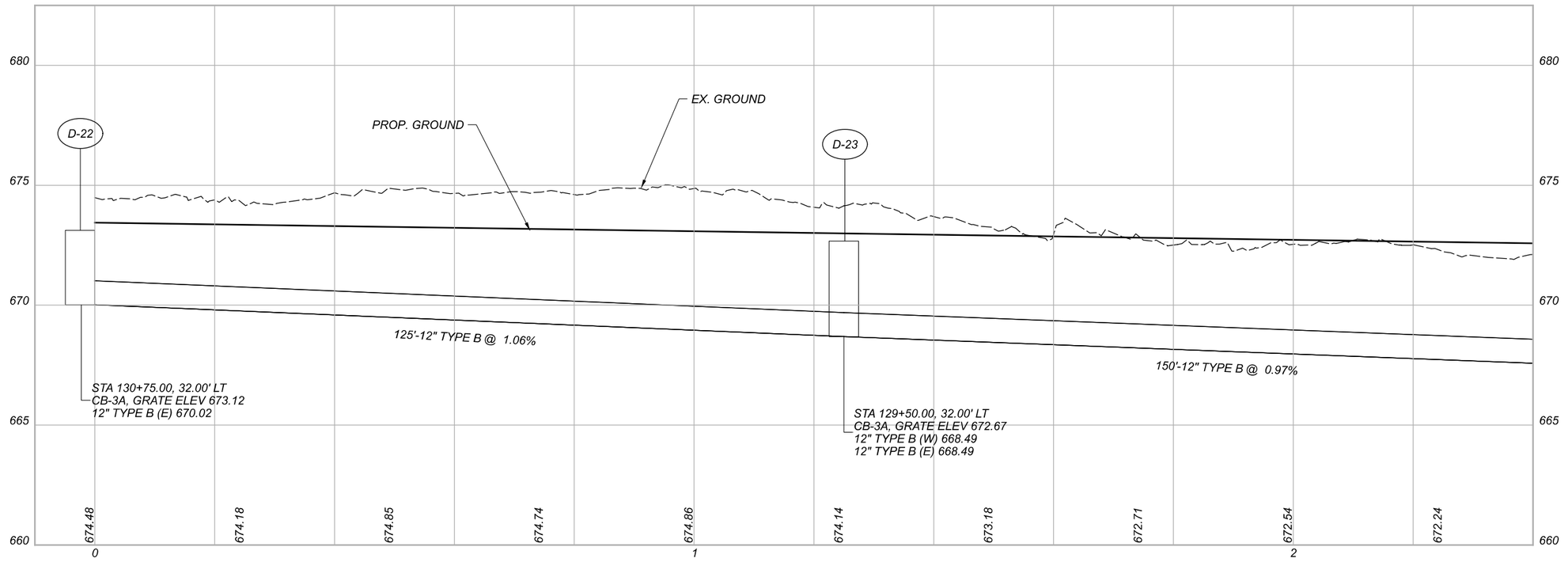
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JACOBS

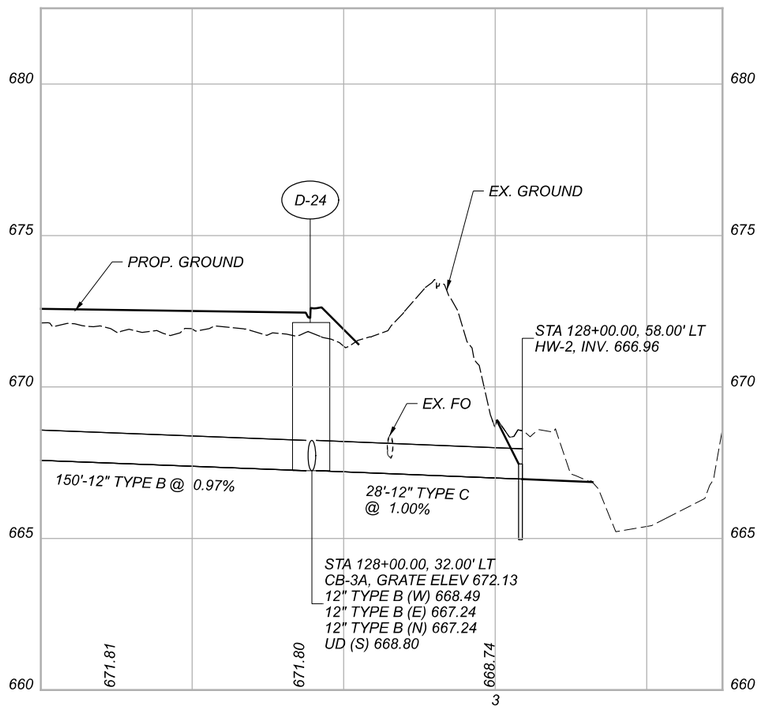
DESIGNER
TES

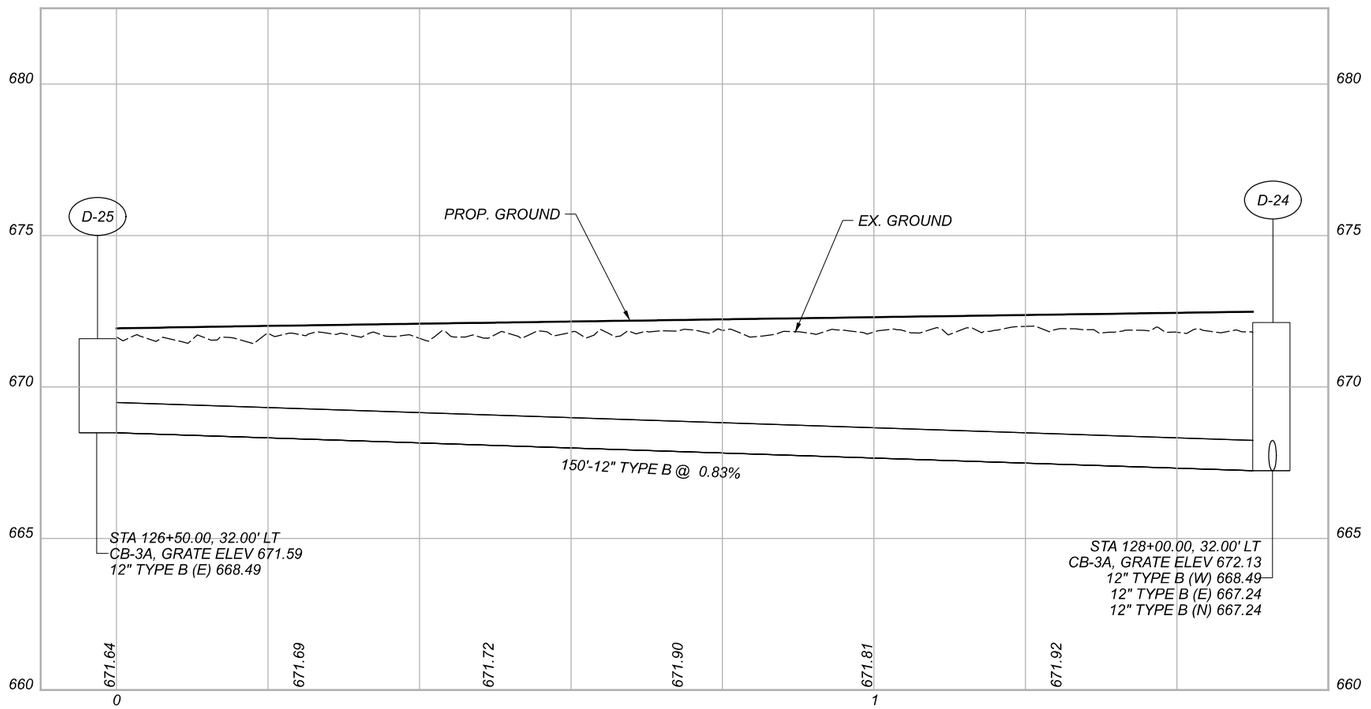
REVIEWER
CTS 08/22/23

PROJECT ID
112121

SHEET 319 | TOTAL 436





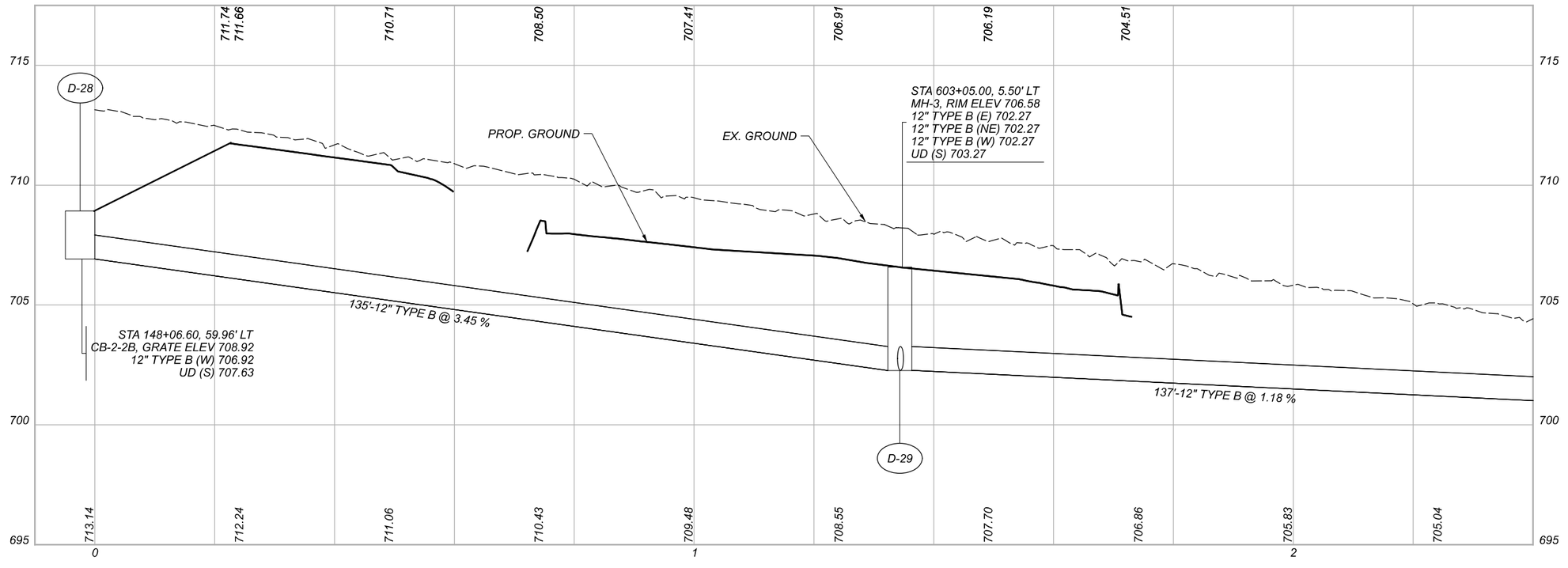


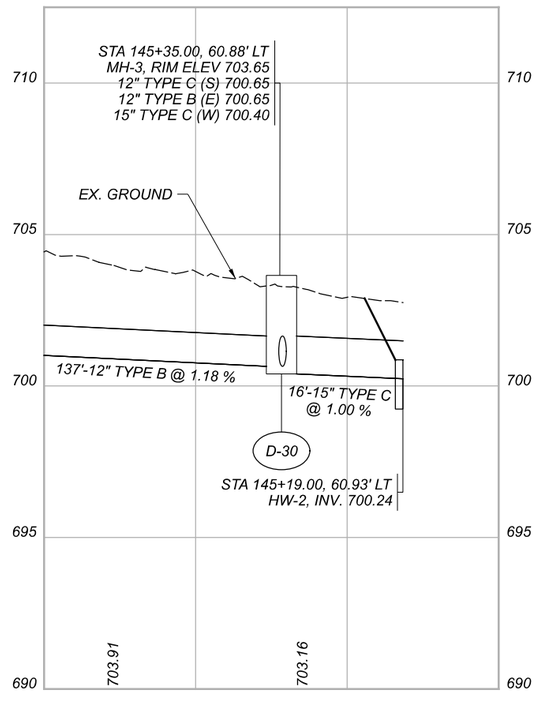
DRAINAGE PROFILES

WAR-63-0.83

MODEL: Storm Sewer Profile Sta 126+50 to 130+75 - Sheet PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:08:02 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Drainage\Sheets\112121_DF000.dgn

DESIGN AGENCY	JACOBS
DESIGNER	TES
REVIEWER	CTS 08/22/23
PROJECT ID	112121
SHEET	320
TOTAL	436





DRAINAGE PROFILES

DESIGN AGENCY
JACOBS

DESIGNER
TES

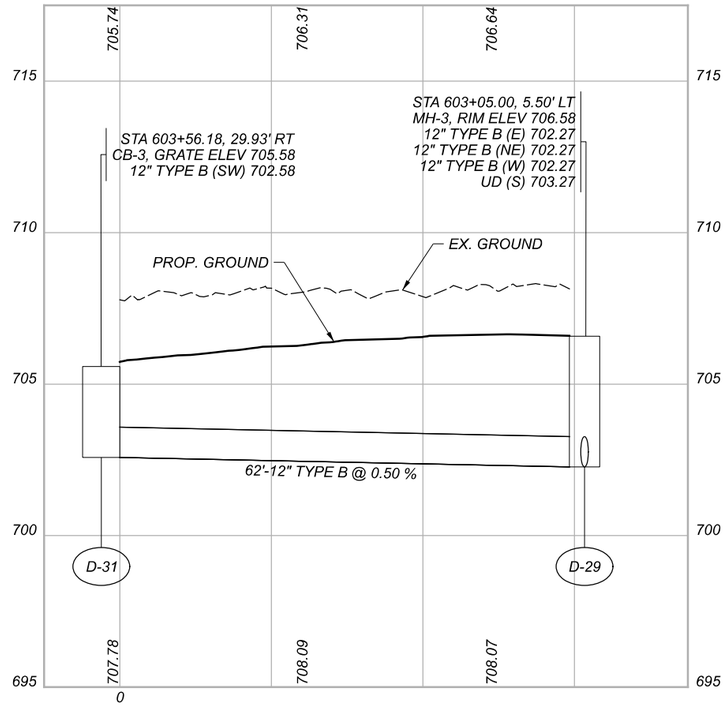
REVIEWER
CTS 08/22/23

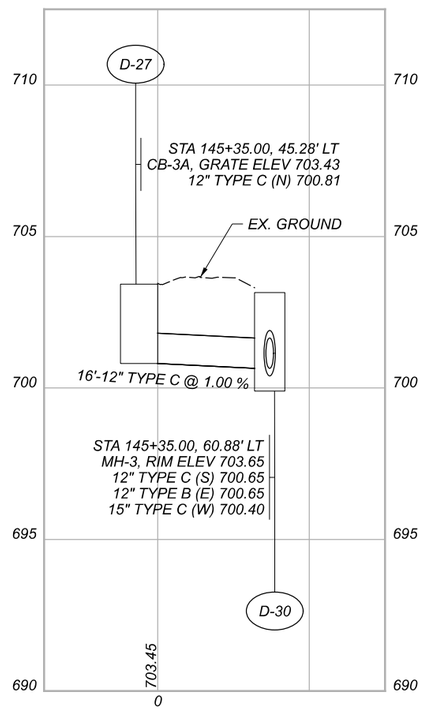
PROJECT ID
112121

SHEET 321 | TOTAL 436

WAR-63-0.83

MODEL: Storm Sewer Profile Sta 148+07 to 145+19 - Sheet | PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:08:05 PM USER: Tahir.Sondo@jacobs.com
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WAR-63-0.83

MODEL: Storm Sewer Profile Sta 148+07 to 145+19 - Sheet 2 PAPERSIZE: 17x11in.) DATE: 8/23/2023 TIME: 4:08:08 PM USER: Tahir.Sondo@Jacobs.com
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DRAINAGE PROFILES

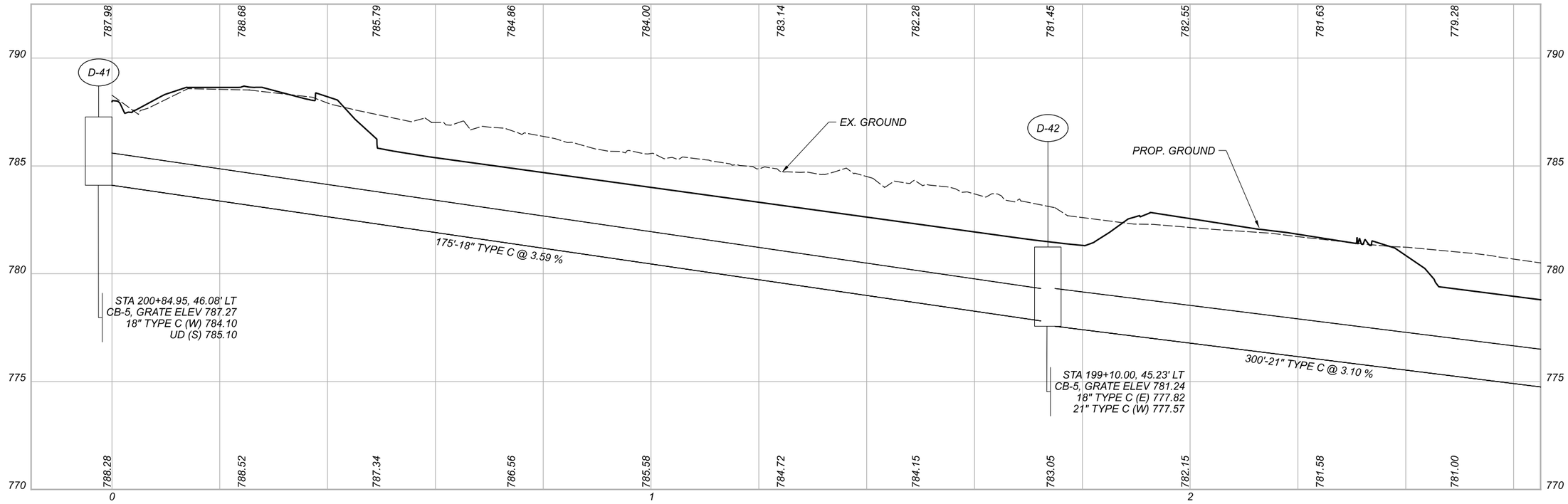
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JACOBS

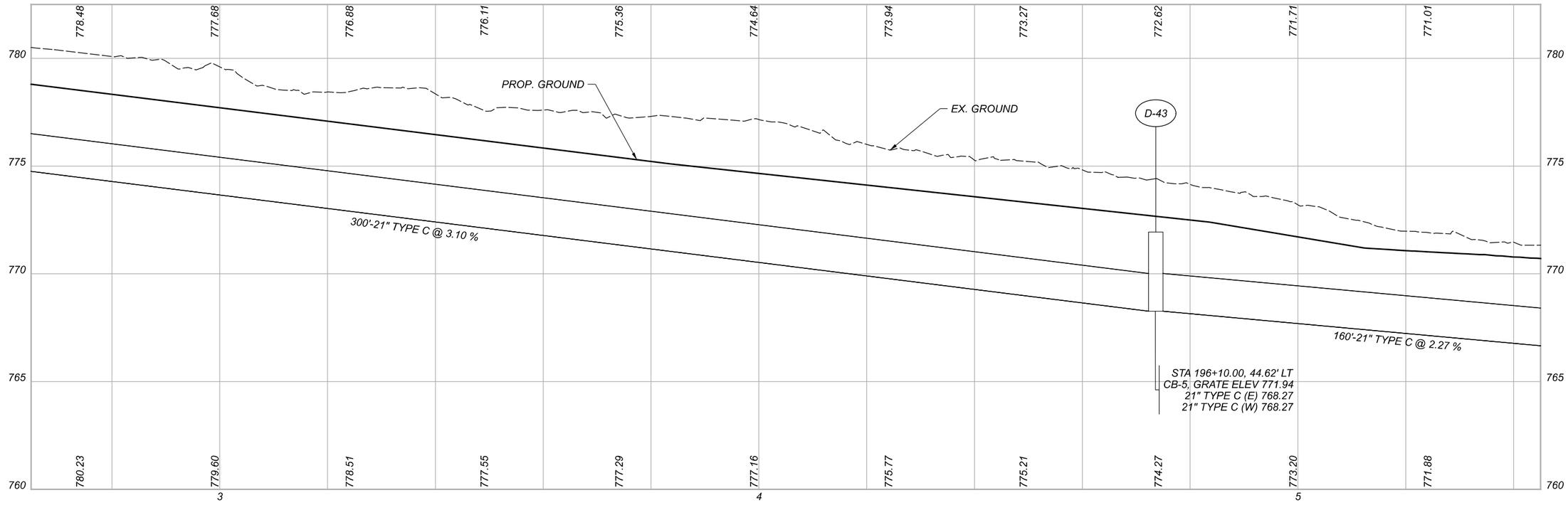
DESIGNER
TES

REVIEWER
CTS 08/22/23

PROJECT ID
112121

SHEET 322 | TOTAL 436





DRAINAGE PROFILES

WAR-63-0.83

MODEL: Storm Sewer Profile Sta 200+85 to 194+51LT - Sheet | PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:08:11 PM USER: Tahir.Sondo@jacobs.com
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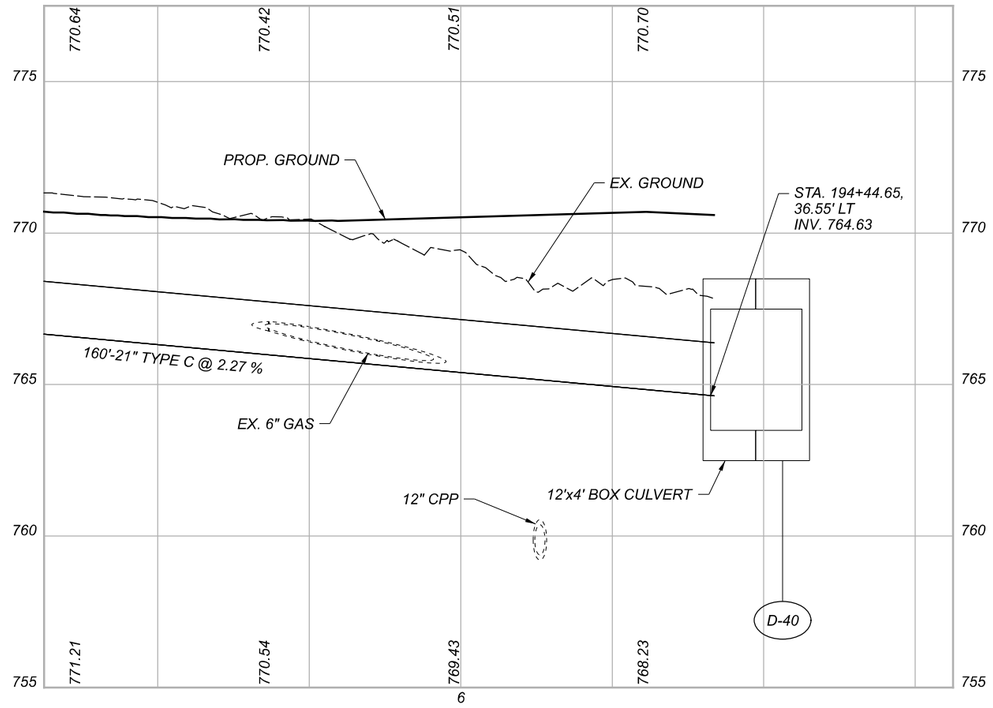
DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
CTS 08/22/23

PROJECT ID
112121

SHEET 323 | TOTAL 436



DRAINAGE PROFILES

WAR-63-0.83

MODEL: Storm Sewer Profile Sta 200+85 to 194+51LT - Sheet 2 PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:08:15 PM USER: Tahir.Sondo@jacobs.com
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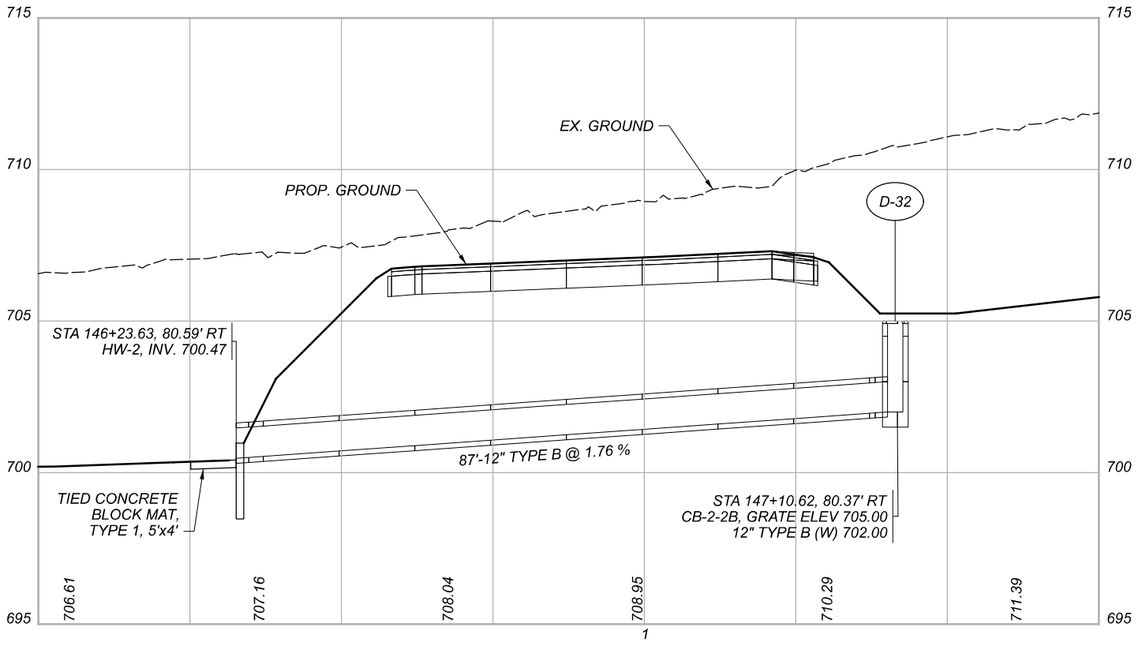
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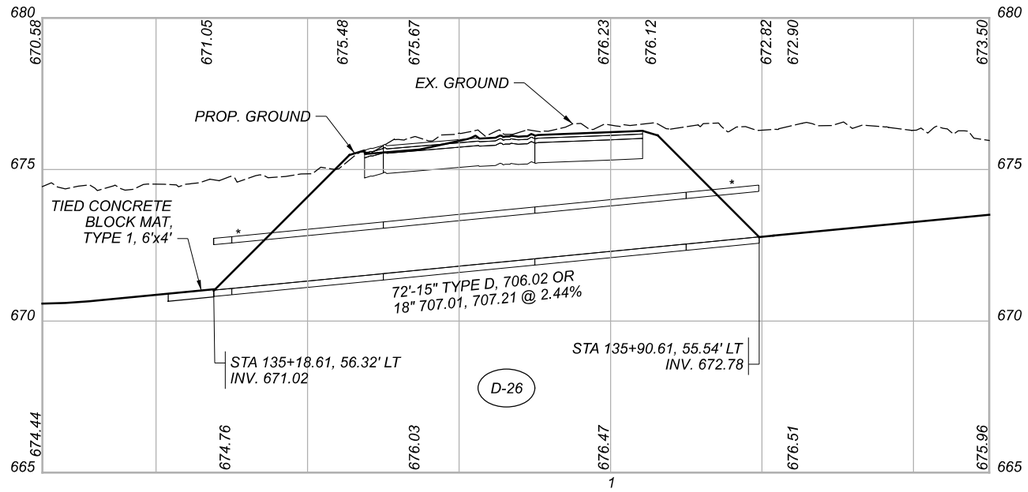
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TES

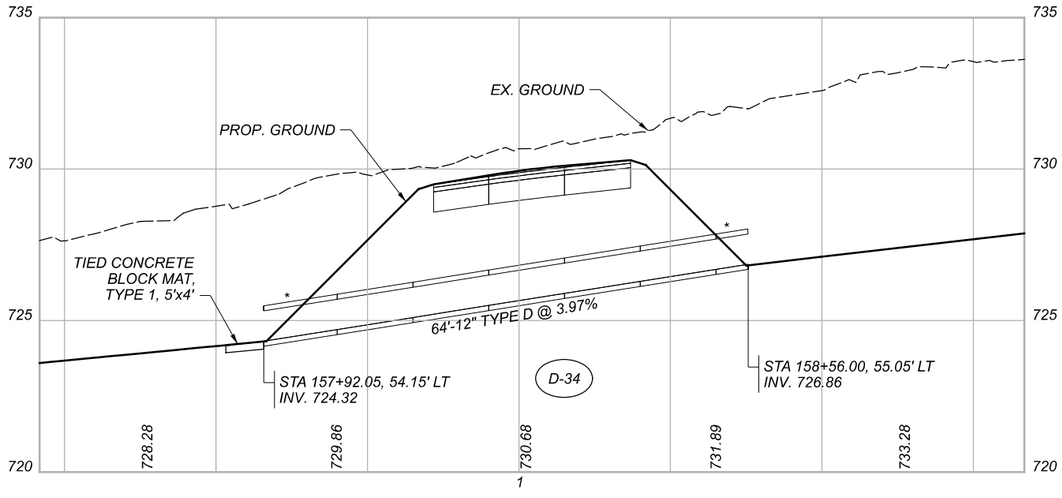
REVIEWER
CTS 08/22/23

PROJECT ID
112121

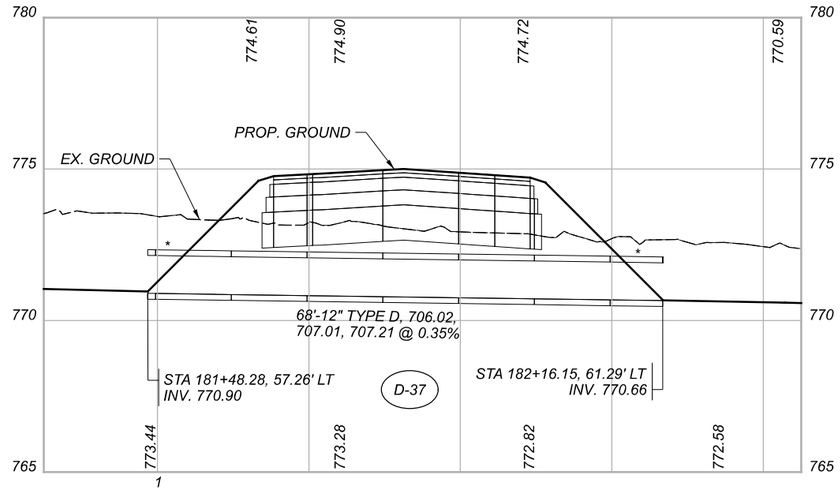
SHEET 324 | TOTAL 436







* MITER CUT TO CONFORM
TO THE PREVAILING SLOPE



DRAINAGE PROFILES

WAR-63-0.83

MODEL: Drive Pipe Profile - Sheet 1 PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:08:18 PM USER: Tahir.Sondo@jacobs.com
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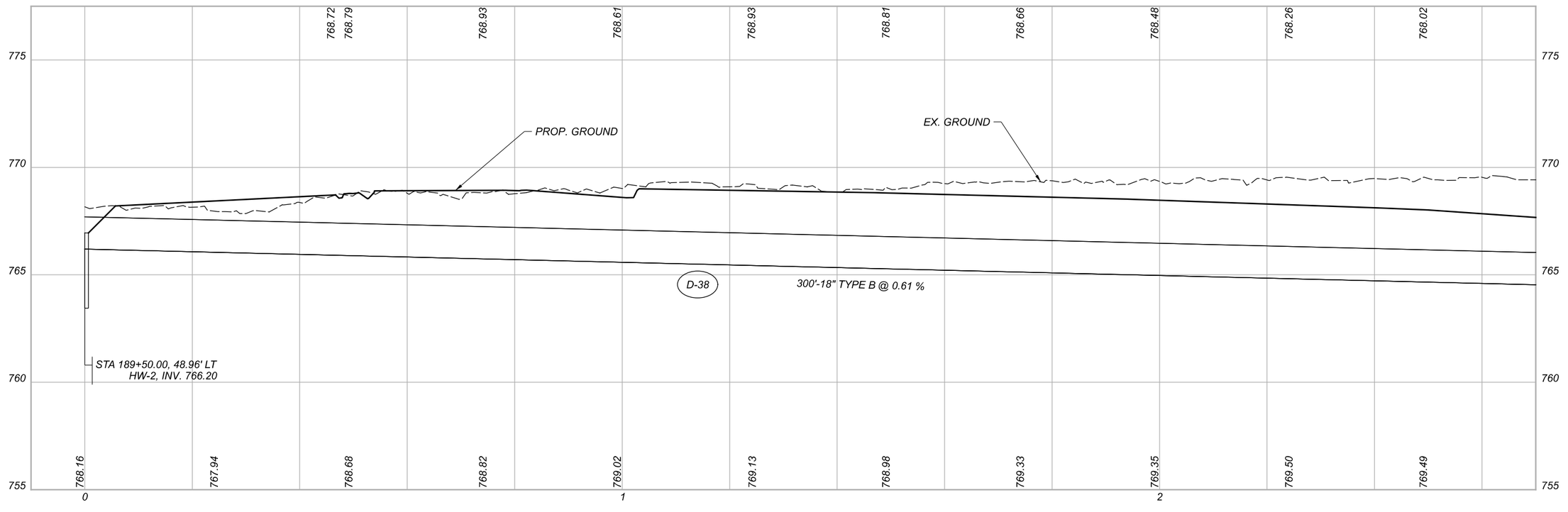
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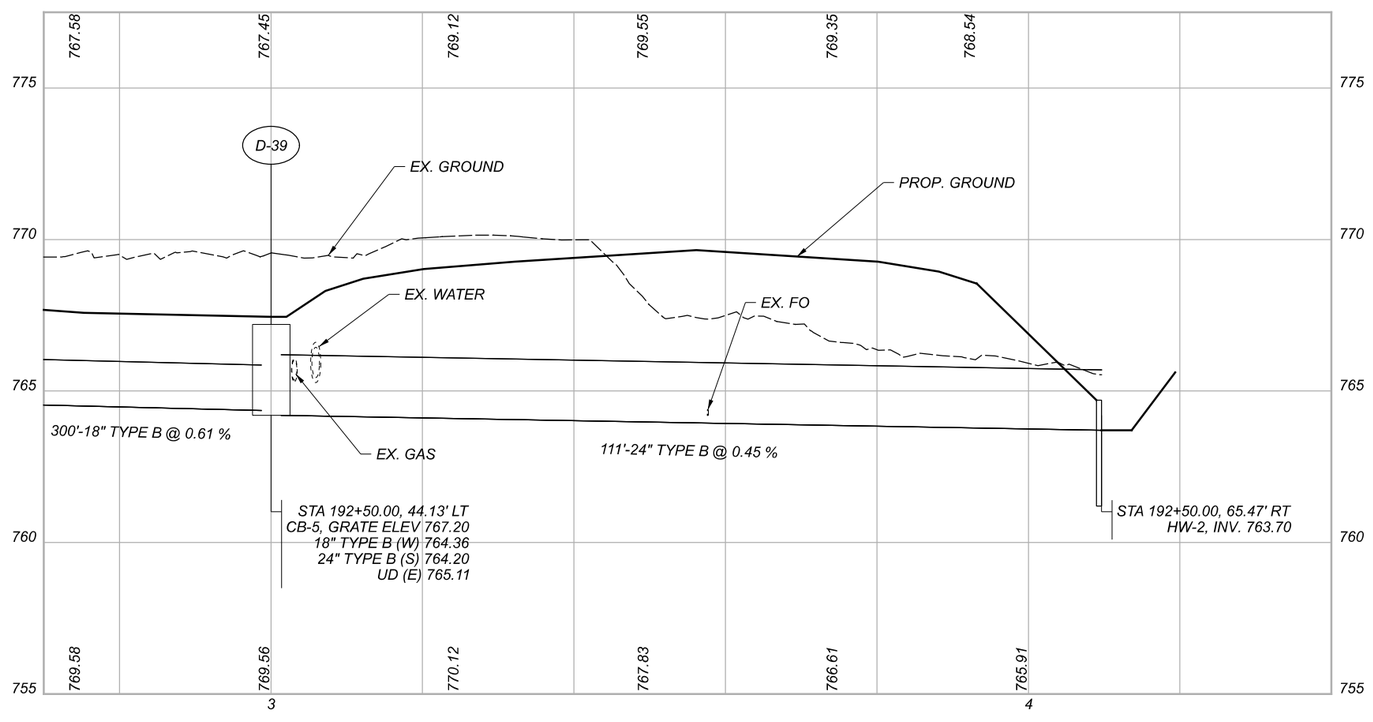
DESIGNER
TES

REVIEWER
CTS 08/22/23

PROJECT ID
112121

SHEET 325 | TOTAL 436





DRAINAGE PROFILES

WAR-63-0.83

MODEL: Storm Sewer Profile Sta 189+50 to 192+50 - Sheet PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:08:24 PM USER: Tahir.Sondo@jacobs.com
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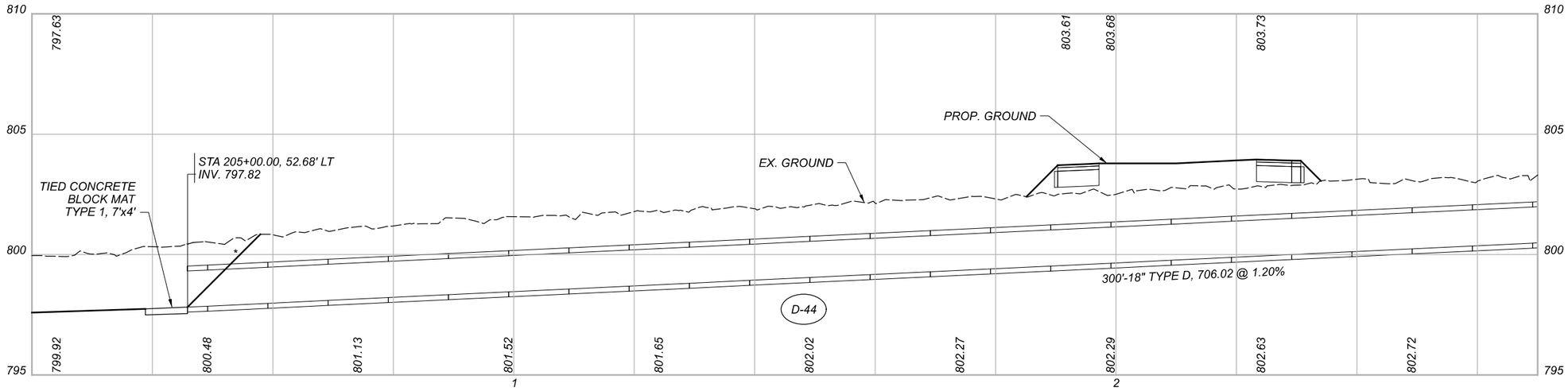
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JACOBS

DESIGNER
TES

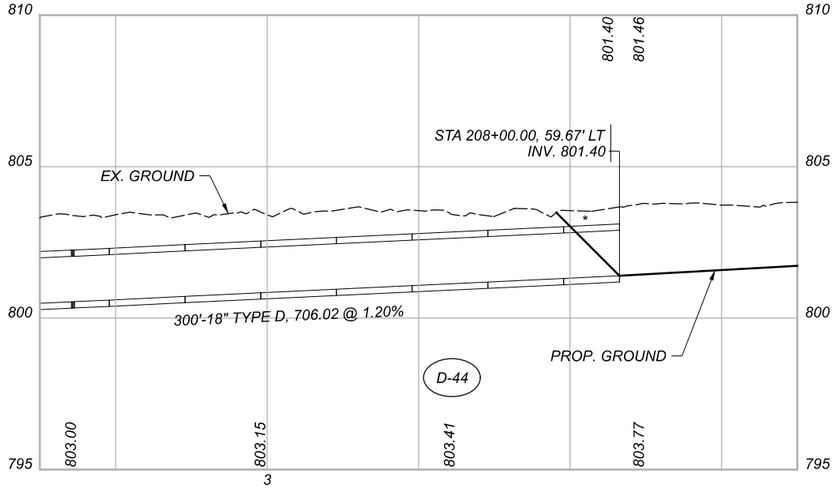
REVIEWER
CTS 08/22/23

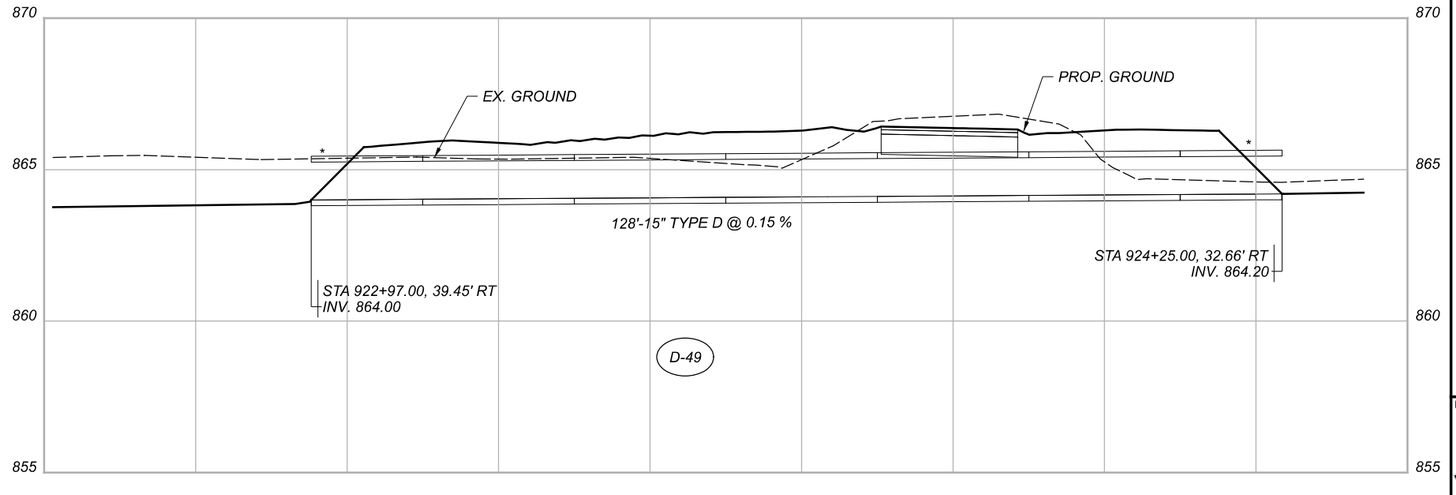
PROJECT ID
112121

SHEET 326 | TOTAL 436



* MITER CUT TO CONFORM
TO THE PREVAILING SLOPE





DRAINAGE PROFILES

DESIGN AGENCY
JACOBS

DESIGNER
TES

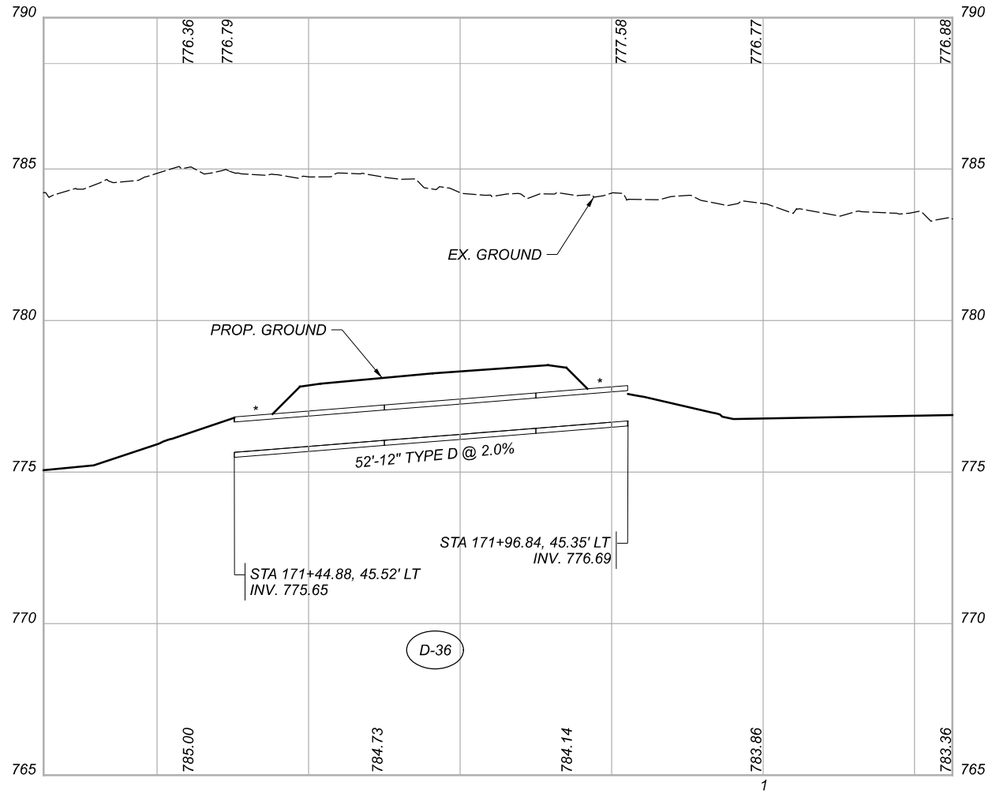
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CTS 08/22/23

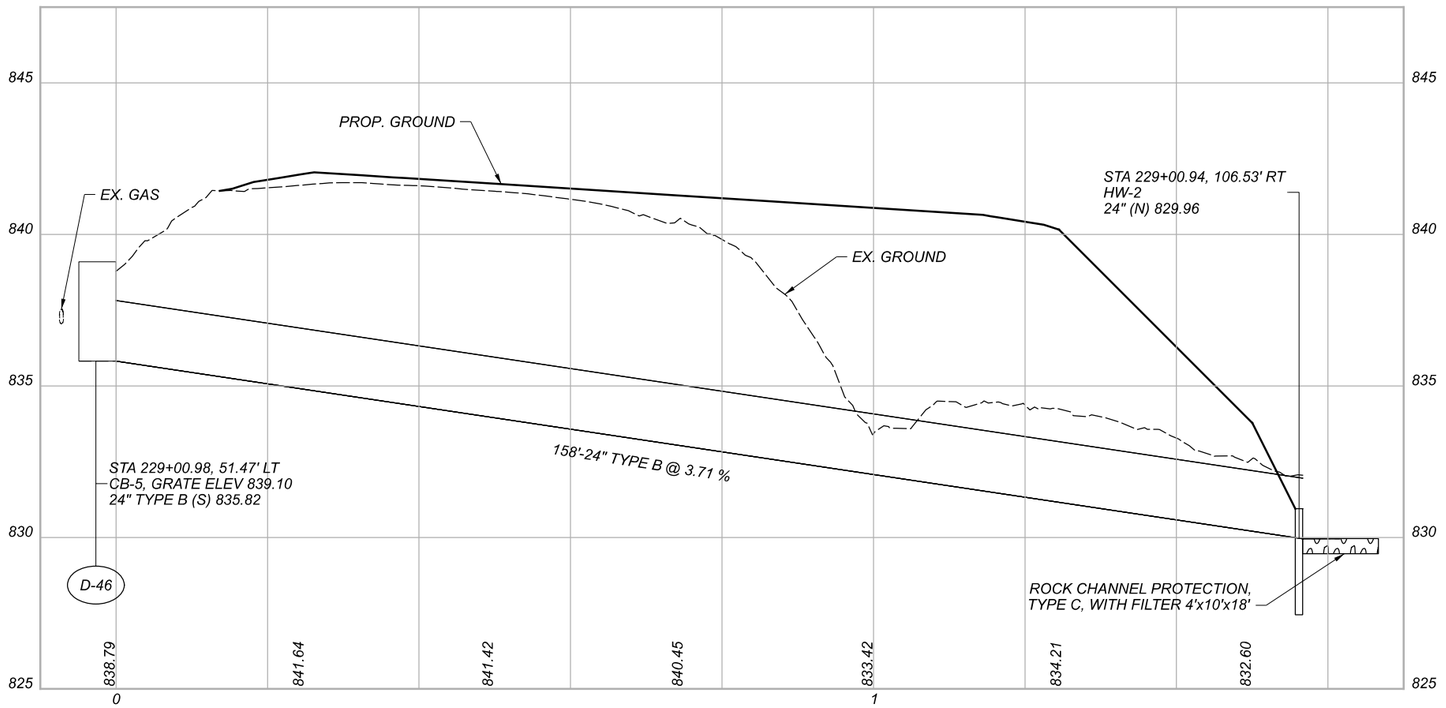
PROJECT ID
112121

SHEET 327 | TOTAL 436

WAR-63-0.83

MODEL: Drive Pipe Profile - Sheet 2 PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:08:27 PM USER: Tahir.Sondo@jacobs.com
pw:\\Project=WiseAMER.jacobs.com:DEN003\Documents\C6A8200 - SR 63 Reconstruction\Design\112121\400-Engineering\Drainage\Sheets\112121_DF000.dgn





* MITER CUT TO CONFORM TO THE PREVAILING SLOPE

DRAINAGE PROFILES

WAR-63-0.83

MODEL: Storm Sewer Profile Sta 229 - Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 4:08:31 PM USER: Tahir.Sondo@Jacobs.com
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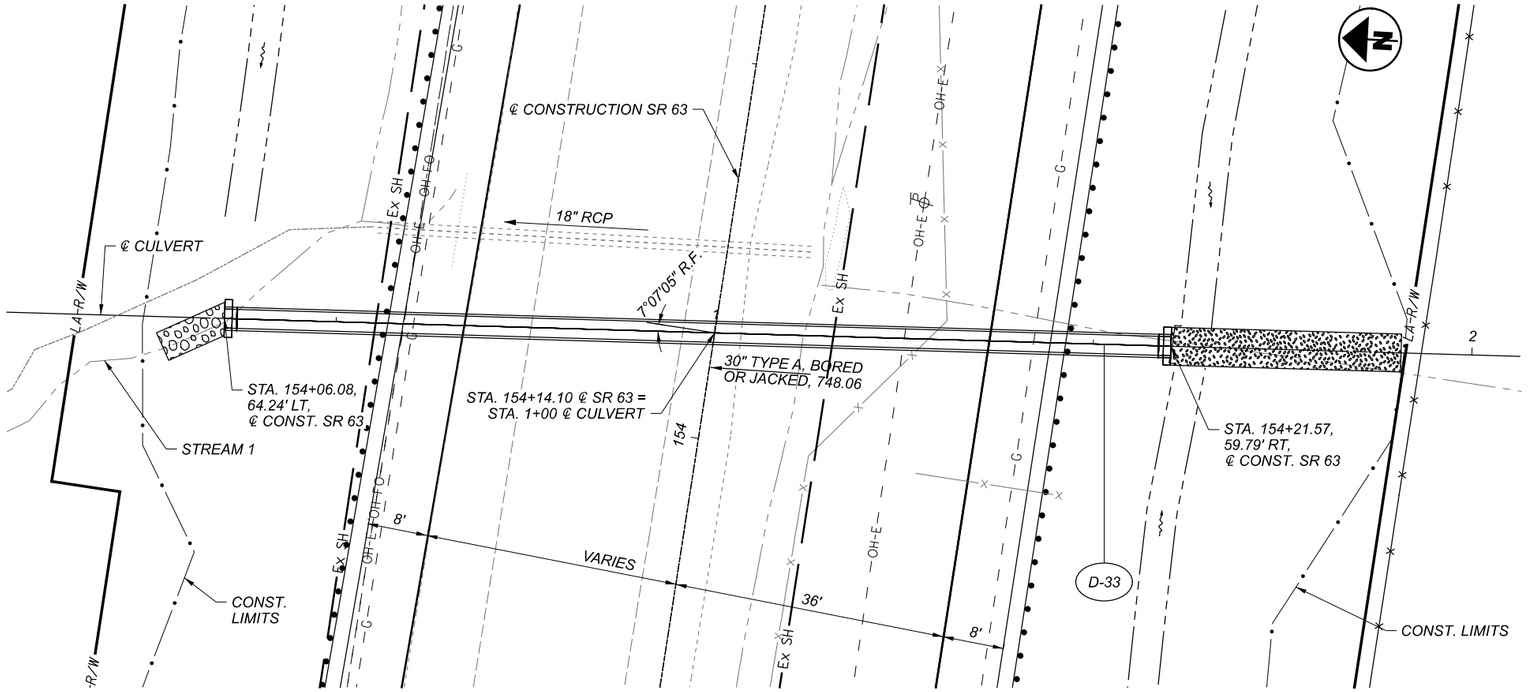
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JACOBS

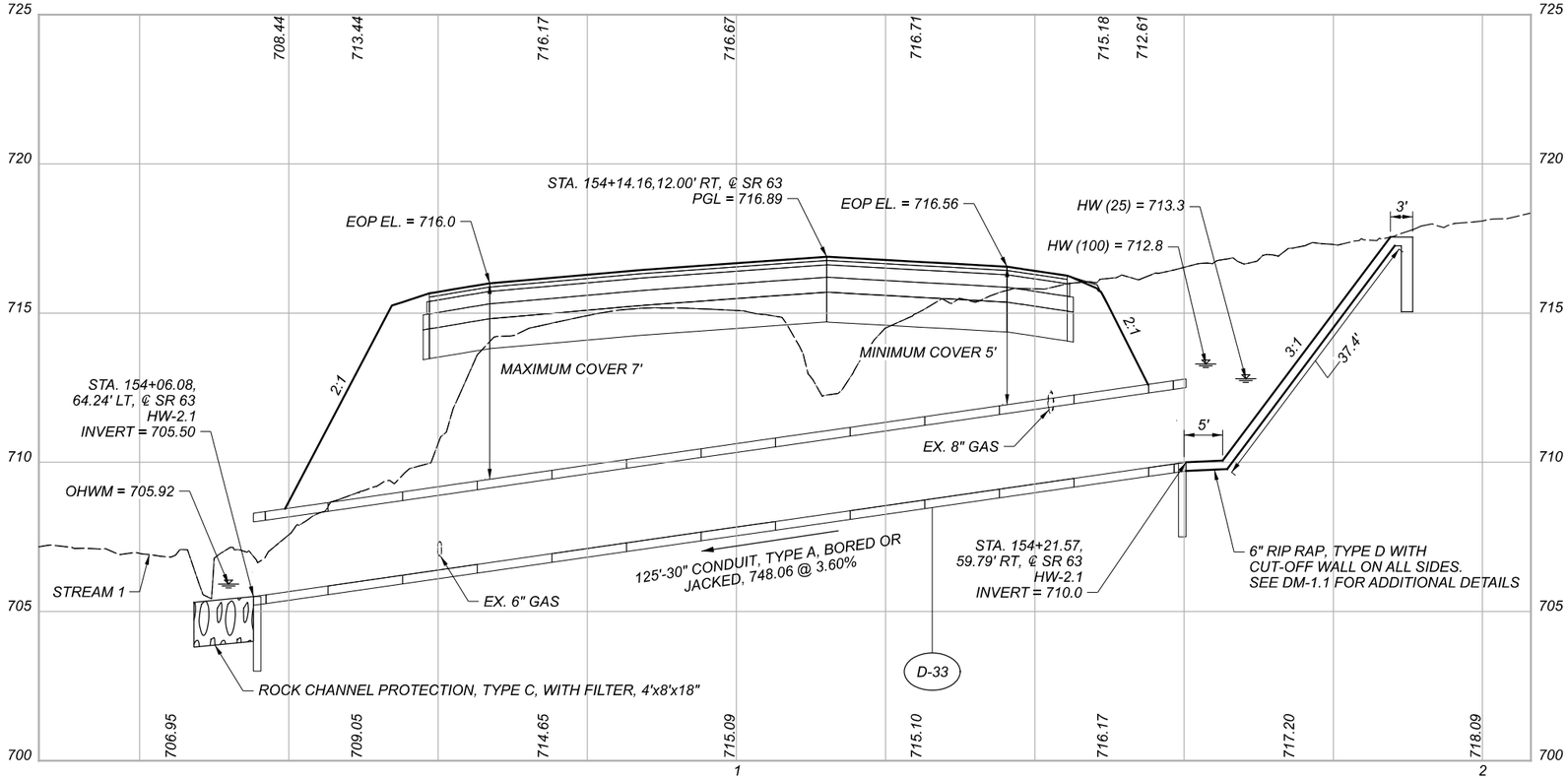
DESIGNER
TES

REVIEWER
CTS 08/22/23

PROJECT ID
112121

SHEET 328 | TOTAL 436





HORIZONTAL SCALE IN FEET
0 5 10 20

ESTIMATED QUANTITIES

ITEM	QUANTITY	UNIT	DESCRIPTION
601	1.78	CY	ROCK CHANNEL PROTECTION, TYPE C WITH
			FILTER
601	16.89	SY	RIP RAP, TYPE D
602	1.20	CY	CONCRETE MASONRY
611	125	FT	CONDUIT, BORED OR JACKED, 30", 748.06
TOTALS CARRIED TO SHEET NO. 81			

HYDRAULIC DATA

Q (25) = 25 CFS V (25) = 8.8 FT/S HW (25) = 712.8 FT
Q (100) = 29 CFS V (100) = 9.1 FT/S HW (100) = 713.3 FT

DESIGN SERVICE LIFE: 75 YEARS
ABRASION LEVEL: 1
pH: 7.5

EXISTING STRUCTURE

TYPE: RCP
SIZE: 18"
SKEW: 0°
ALIGNMENT: TANGENT
DATE BUILT: UNKNOWN
CONDITION: FAIR
CFN: 1826666

PROPOSED STRUCTURE

TYPE: 30" CONDUIT, TYPE A, BORED OR JACKED, 748.06

SKEW: 7°07'05" R.F.
ALIGNMENT: TANGENT
CFN: 1991582
DESIGN SERVICE LIFE: 75 YEARS

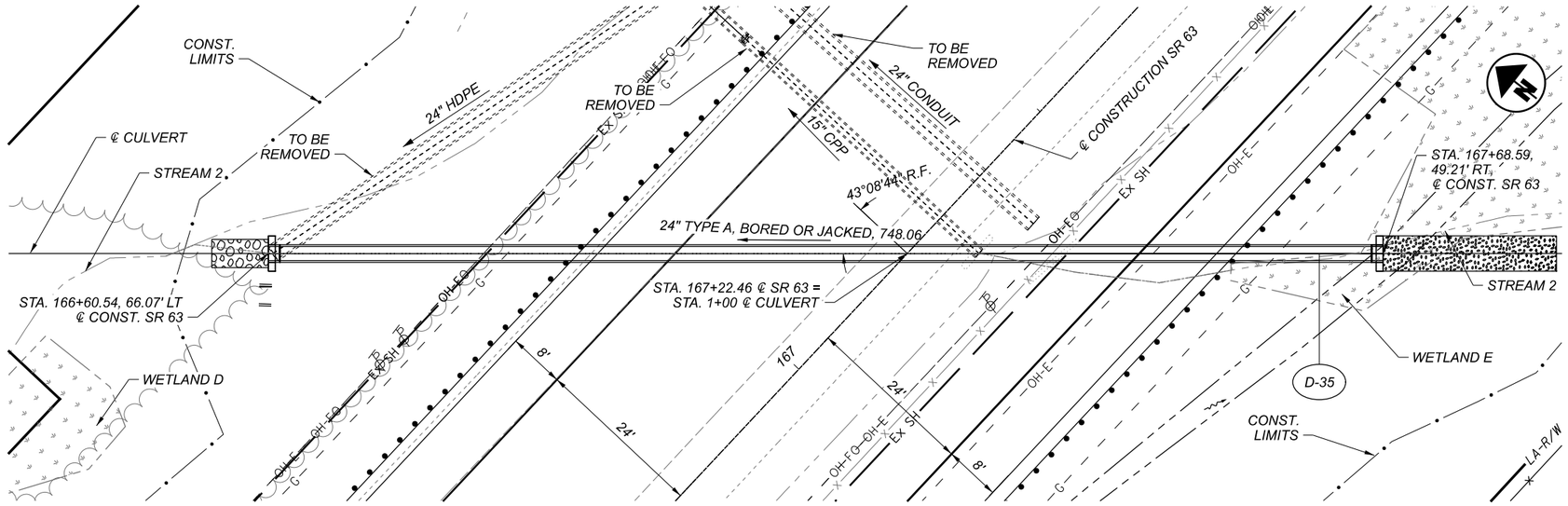
CULVERT DETAIL
SR 63 - STA. 154+14.10

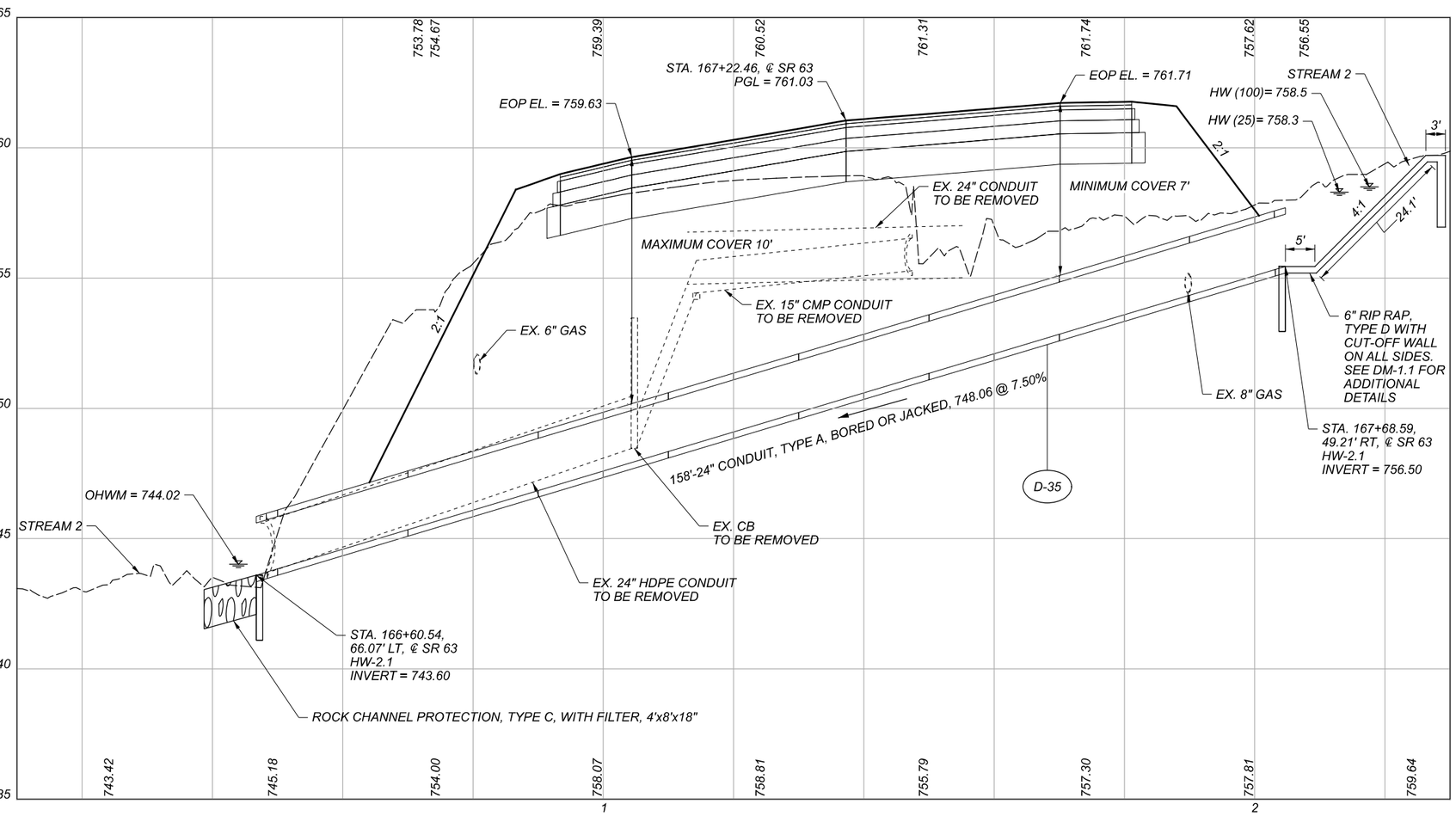
DESIGN AGENCY
JACOBS

DESIGNER	TES
REVIEWER	CTS 08/22/23
PROJECT ID	112121
SUBSET	TOTAL
SHEET	TOTAL
348	436

WAR-63-0.83

MODEL: Culvert_Sta154+25 - Culvert Plan Sta154+27 [Sheet] PAPERSIZE:17x11(in) DATE:8/23/2023 TIME:3:21:39 PM USER:Tahir.Sondo@Jacobs.com
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ESTIMATED QUANTITIES

ITEM	QUANTITY	UNIT	DESCRIPTION
601	1.78	CY	ROCK CHANNEL PROTECTION, TYPE C WITH
			FILTER
601	13.65	SY	RIP RAP, TYPE D
602	0.46	CY	CONCRETE MASONRY
611	158	FT	CONDUIT, BORED OR JACKED, 24", 748.06

TOTALS CARRIED TO SHEET NO. 81

HYDRAULIC DATA

Q (25) = 10.6 CFS V (25) = 9.3 FT/S HW (25) = 758.3 FT
Q (100) = 12.5 CFS V (100) = 9.7 FT/S HW (100) = 758.5 FT

DESIGN SERVICE LIFE: 75 YEARS
ABRASION LEVEL: 2
pH: 7.5

EXISTING STRUCTURE

TYPE: CPP
SIZE: 15"
SKEW: 43°08'44" R.F.
ALIGNMENT: TANGENT
DATE BUILT: UNKNOWN
CONDITION: POOR
CFN: 1856048

PROPOSED STRUCTURE

TYPE: 24" CONDUIT, TYPE A, BORED OR JACKED, 748.06

SKEW: 43°08'44" R.F.
ALIGNMENT: TANGENT
CFN: 1989875
DESIGN SERVICE LIFE: 75 YEARS

HORIZONTAL SCALE IN FEET
0 5 10 20

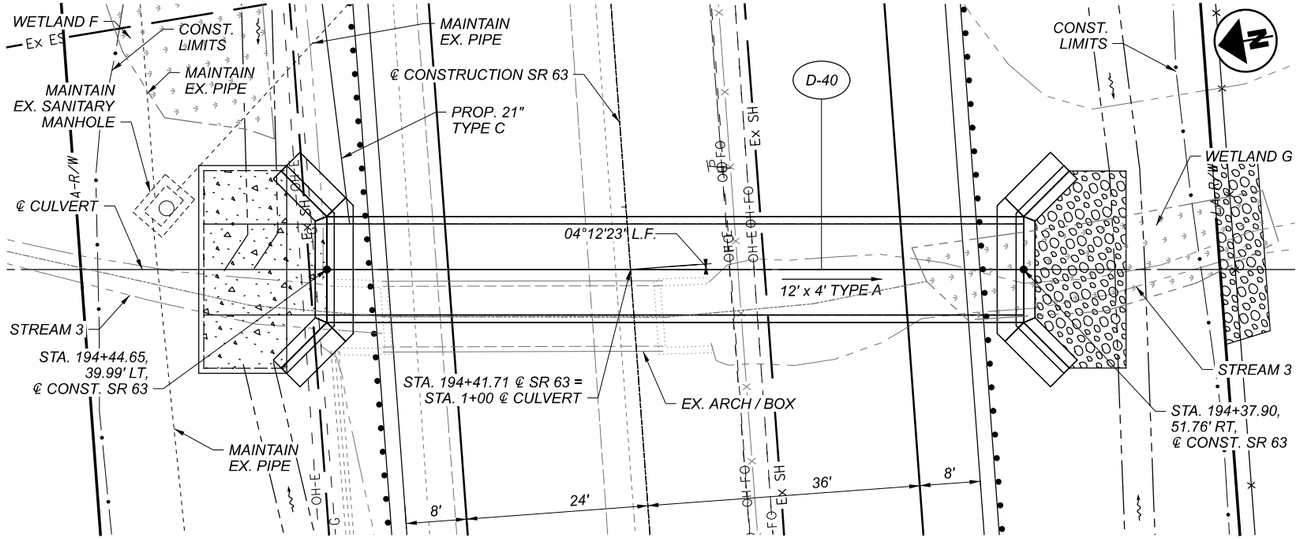
CULVERT DETAIL
SR 63 STA. 167+22.46

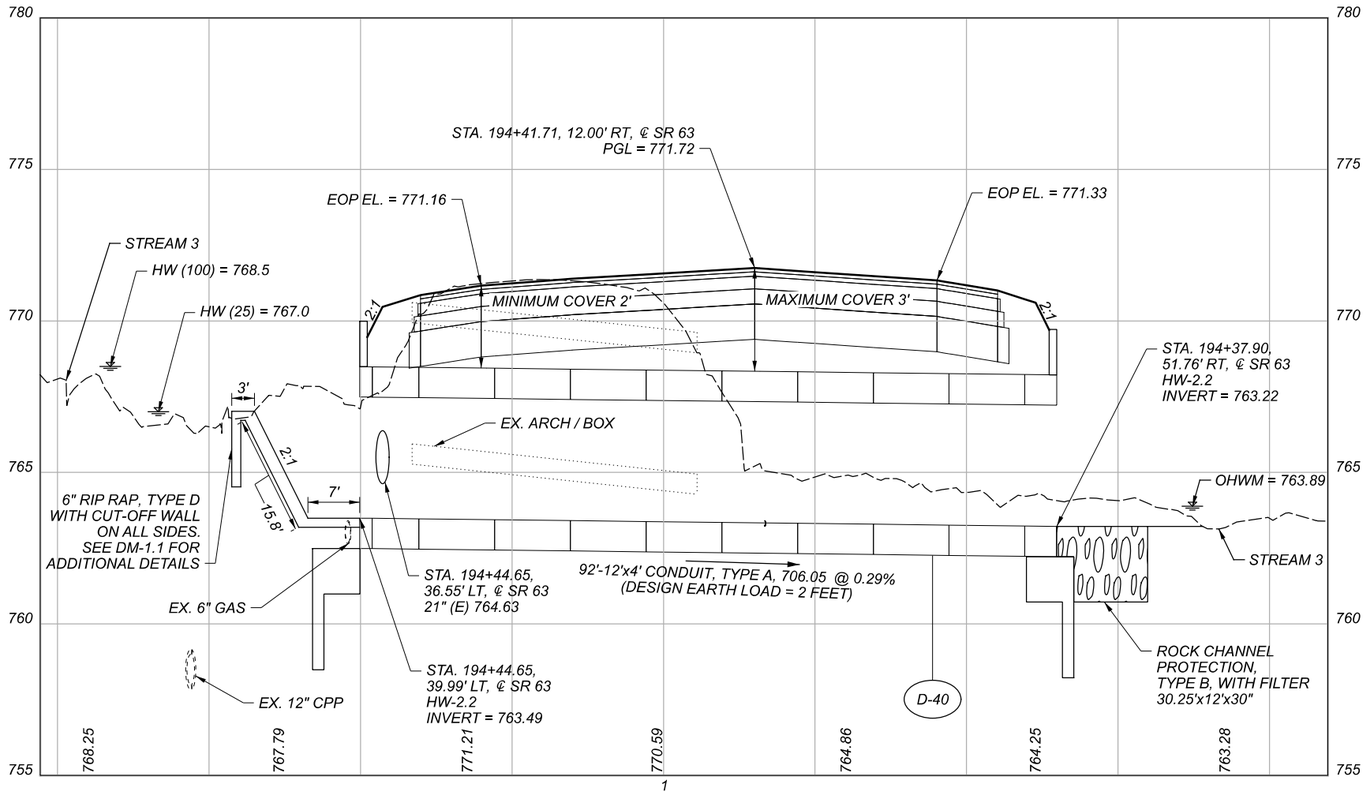
DESIGN AGENCY
JACOBS

DESIGNER	TES
REVIEWER	CTS 08/22/23
PROJECT ID	112121
SUBSET	TOTAL
SHEET	TOTAL
349	436

WAR-63-0.83

MODEL: Culvert_Sta167+23 - Culvert Plan Sta 167+23 [Sheet] PAPERSIZE: 17x11in DATE: 8/23/2023 TIME: 3:22:38 PM USER: Tahir.Sondo@jacobs.com
pw:\\Project.WiseAMER.jacobs.com:D$N003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Drainage\Sheets\112121_DC000.dgn





1

HYDRAULIC DATA

DRAINAGE AREA = 166 ACRES

Q (25) = 216 CFS	V (25) = 8.8 FT/S	HW (25) = 767.0 FT
Q (100) = 317 CFS	V (100) = 10.0 FT/S	HW (100) = 768.5 FT

ORDINARY HIGH WATER MARK: FT

DESIGN SERVICE LIFE: 75 YEARS

ABRASION LEVEL: 2

pH: 7

EXISTING STRUCTURE

TYPE: CONCRETE BOX / ARCH

SIZE: 8'x4'

SKEW: 4°12'23" L.F.

ALIGNMENT: TANGENT

DATE BUILT: 1933

CONDITION: FAIR

CFN: 1846372

PROPOSED STRUCTURE

TYPE: 12'x4' CONDUIT, TYPE A, 706.05

SKEW: 4°12'23" L.F.

ALIGNMENT: TANGENT

SFN: 8301486

DESIGN SERVICE LIFE: 75 YEARS

HORIZONTAL SCALE IN FEET
0 5 10 20

CULVERT DETAIL
SR 63 STA. 194+41.71

DESIGN AGENCY
JACOBS

DESIGNER	TES
REVIEWER	CTS 08-22-23
PROJECT ID	112121
SUBSET	1
TOTAL	5
SHEET	350
TOTAL	436

WAR-63-0.83

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REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS

N/A

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 9TH EDITION, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA

THE FOLLOWING DESIGN DATA IS ASSUMED:
- INTERNAL ANGLE OF FRICTION OF BACKFILL SOIL, ϕ_{bf} = 30°
- TOTAL UNIT WEIGHT OF BACKFILL SOIL = 120 PCF
- INTERNAL ANGLE OF FRICTION (DRAINED), FOUNDATION SOIL, ϕ_f = 28°
- UNDRAINED SHEAR STRENGTH (COHESIVE), FOUNDATION SOIL, S_u = 1500 PSF
- UNIT WEIGHT OF CONCRETE = 150 PCF
- SLOPE OF BACKFILL = 2:1 (TYPE A & B HEADWALLS)
- HEIGHT OF LIVE LOAD SURCHARGE = 2 FT (TYPE C HEADWALLS)

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4000 PSI (FOOTING, WINGWALL AND FORESLOPE WALL)

REINFORCING STEEL - ASTM A615, A616, OR A617 GRADE 60 MINIMUM YIELD STRENGTH 60,000 PSI (ALL REINFORCING SHALL BE EPOXY COATED)

PRECAST CONCRETE

THE DEPARTMENT WILL PERMIT THE USE OF PRECAST CONCRETE IN LIEU OF CAST-IN-PLACE CONCRETE FOR HEADWALLS AND WINGWALLS IN ACCORDANCE WITH SS851. THE DEPARTMENT WILL PAY FOR THE WINGWALL AND HEADWALL CONCRETE IN SQUARE FEET AS DETAILED IN SS851.08. THE TOTAL PLAN QUANTITY OF CAST-IN-PLACEGWALL AND HEADWALL CONCRETE IS 225 SF.

FORESLOPE WALL ANCHOR DOWELS:

ANCHOR PER CMS 510 WITH NONSHRINK, NONMETALLIC GROUT CONFORMING TO CMS 705.20 AND TO A DEPTH SPECIFIED ON SHEET 4/5. PAYMENT FOR DOWEL HOLES, GROUT AND INSTALLATION SHALL BE INCLUDED WITH ITEM 511.

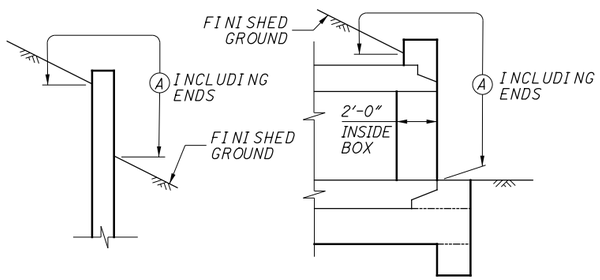
THREADED INSERTS OR NON-PROTRUDING MECHANICAL CONNECTORS CAPABLE OF DEVELOPING AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE REINFORCEMENT SHOWN ARE AN ACCEPTABLE ALTERNATIVE TO RESIN BONDING. MAINTAIN A MINIMUM COVER OF 3 INCHES AT THE BOTTOM OF THE CULVERT SLAB. MECHANICAL CONNECTORS SHALL HAVE AN "L-SHAPED" BAR INSIDE THE CULVERT WITH A MINIMUM HORIZONTAL LENGTH OF 12 INCHES. THE DEPARTMENT WILL CONSIDER PAYMENT FOR INSERTS OR MECHANICAL CONNECTORS AS INCIDENTAL TO ITEM 611.

BACKFILL LIMITATION

WHEN THE DESIGN HEIGHT IS GREATER THAN 10 FT, THE BACKFILL BEHIND THE WINGWALLS SHALL NOT BE PLACED HIGHER THAN THE ELEVATION OF THE SOIL ABOVE THE TOE. WHEN THE SOIL ABOVE THE TOE IS AT ITS FINISHED ELEVATION, THE REMAINDER OF THE BACKFILL MAY BE PLACED.

ITEM 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

ALL EXPOSED FORESLOPE WALL AND WINGWALL CONCRETE SHALL BE SEALED WITH EPOXY-URETHANE SEALER. THE LIMITS SHALL BE AS SHOWN IN THE DIAGRAMS BELOW. PAYMENT FOR THE EPOXY-URETHANE SEALER SHALL BE PER ITEM 512 - SEALING OF CONCRETE SURFACES.



LIMITS OF ITEM 512-SEALING CONCRETE SURFACES

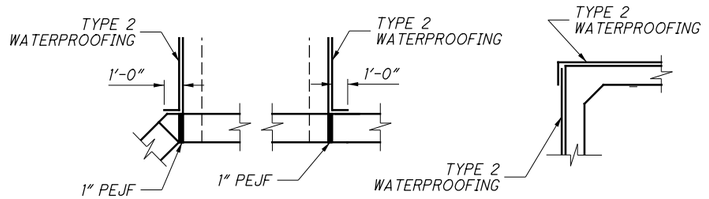
Ⓐ - SEAL ENTIRE CONCRETE SURFACE AREA

PART.	ESTIMATED QUANTITIES						
01/NHS/OT	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	GEN	SHEET
LS	202	11000	LS	LS	STRUCTURE REMOVED	LS	
LS	503	11100	LS	LS	COFFERDAMS AND EXCAVATION BRACING	LS	
LS	503	21300	LS	LS	UNCLASSIFIED EXCAVATION	LS	
3776	509	10000	3776	LB	EPOXY COATED REINFORCING STEEL	3776	
8	511	46010	8	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	8	
29	511	46510	29	CY	CLASS QC1 CONCRETE, FOOTING	29	
2	511	46610	2	CY	CLASS QC1 CONCRETE, HEADWALL	2	
41	512	10100	41	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	41	
171	512	33000	171	SY	TYPE 2 WATERPROOFING	171	
34	516	13600	34	SF	1" PREFORMED EXPANSION JOINT FILLER	34	
10	518	21200	10	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	10	
43	601	11000	28	SY	RIPRAP, TYPE D	43	
34	601	32110	30	CY	ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER	34	
92	611	95600	92	FT	12' X 4' CONDUIT, TYPE A, 706.05, HEIGHT OF COVER = 3 FT	92	

ITEM 516, TYPE 2 WATERPROOFING

TYPE 2 WATERPROOFING, PER CMS 512 AND 711.25, SHALL EXTEND VERTICALLY DOWN THE ENTIRE SIDES OF THE PRECAST CULVERT SECTIONS FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING.

IF PAVEMENT IS NOT PLACED DIRECTLY ON TOP OF THE CULVERT, TYPE 2 WATERPROOFING, PER CMS 512 AND 711.25 SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE PRECAST CULVERT SECTIONS AND SHALL EXTEND ONE FOOT VERTICALLY DOWN THE SIDES FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING.



WATERPROOFING DETAILS

ITEM 518, POROUS BACKFILL WITH FILTER FABRIC

1'-6" THICK SHALL BE PLACED BEHIND THE WINGWALLS ONLY AND SHALL EXTEND TO 12" BELOW THE EMBANKMENT SURFACE. GEOTEXTILE FABRIC TYPE A SHALL BE PLACED BETWEEN THE POROUS BACKFILL AND REPLACED EXCAVATION ADJACENT TO THE STRUCTURE. IT SHALL TURN UNDER THE BOTTOM OF THE POROUS BACKFILL AND RETURN 6" ABOVE THE TOP ELEVATION OF THE WEEPHOLE.

WEEPHOLES SHALL BE PLACED 6" TO 12" ABOVE THE NORMAL WATER ELEVATION OR GROUND LINE AND SHALL HAVE A MAXIMUM SPACING OF 10'-0". A MINIMUM OF ONE WEEPHOLE SHALL BE PROVIDED PER WINGWALL.

ITEM 516, PREFORMED EXPANSION JOINT FILLER

PREFORMED EXPANSION JOINT FILLER (PEJF) CONFORMING TO CMS 705.03, 1 INCH THICK, SHALL BE PLACED ABOVE THE FOOTING BETWEEN THE SIDES OF THE BOX CULVERT AND THE ENDS OF THE WINGWALLS. PAYMENT FOR MATERIALS AND INSTALLATION SHALL BE INCLUDED WITH ITEM 516 - 1" PREFORMED EXPANSION JOINT FILLER.

BASIS OF PAYMENT

ALL LABOR, EQUIPMENT AND INCIDENTALS REQUIRED TO CONSTRUCT THE FOOTING, CUTOFF WALL, WINGWALLS AND FORESLOPE WALL SHALL BE INCLUDED WITH ITEM 511 - CLASS QC1 CONCRETE, RETAINING/WINGWALL INCLUDING FOOTING. PAYMENT FOR REINFORCING STEEL SHALL BE INCLUDED WITH ITEM 509 - EPOXY COATED REINFORCING STEEL.

GENERAL NOTES & ESTIMATED QUANTITIES
BRIDGE NO. WAR-63-0248
SR 63 OVER STREAM 3

SFN 8301486

DESIGN AGENCY

JACOBS

DESIGNER	CHECKER
MJR	FBW

REVIEWER: JTC 08-22-23

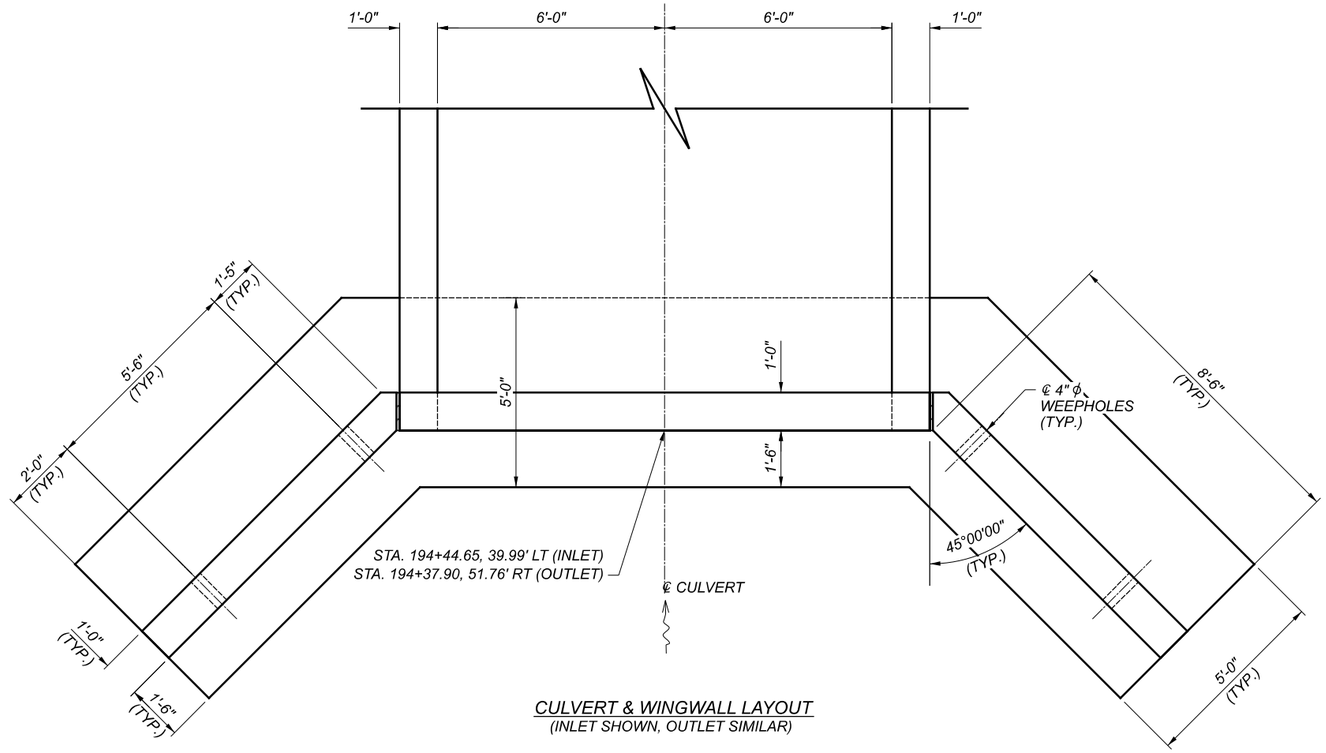
PROJECT ID: 112121

SUBSET	TOTAL
2	5

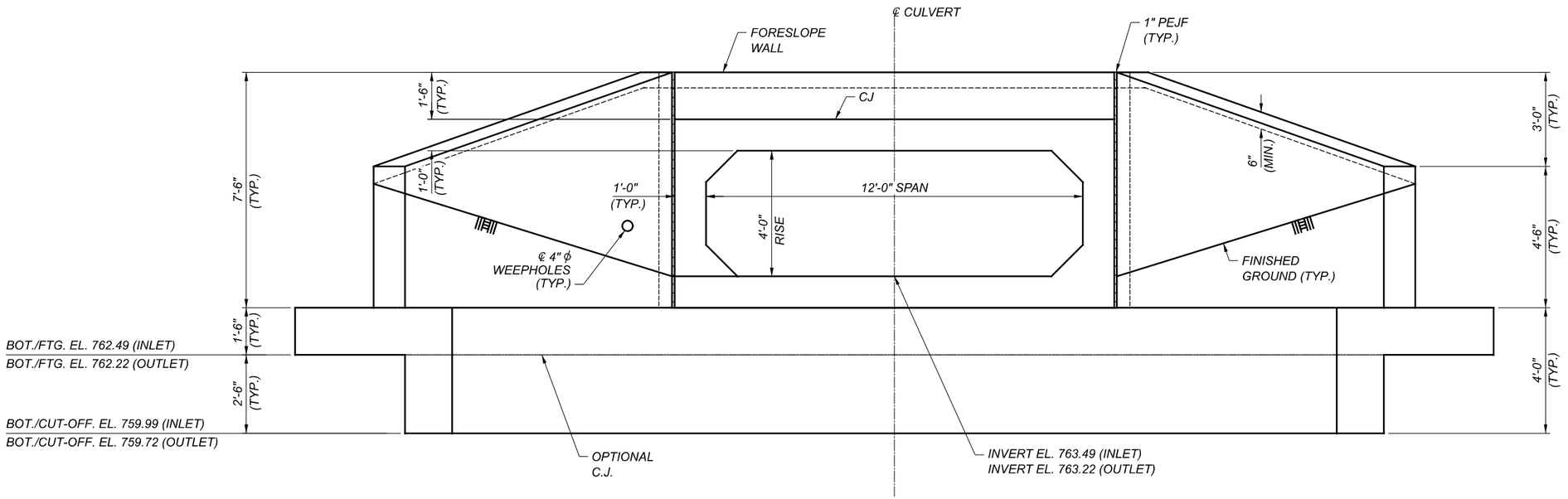
SHEET	TOTAL
351	436

WAR-63-0.83

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CULVERT & WINGWALL LAYOUT
(INLET SHOWN, OUTLET SIMILAR)



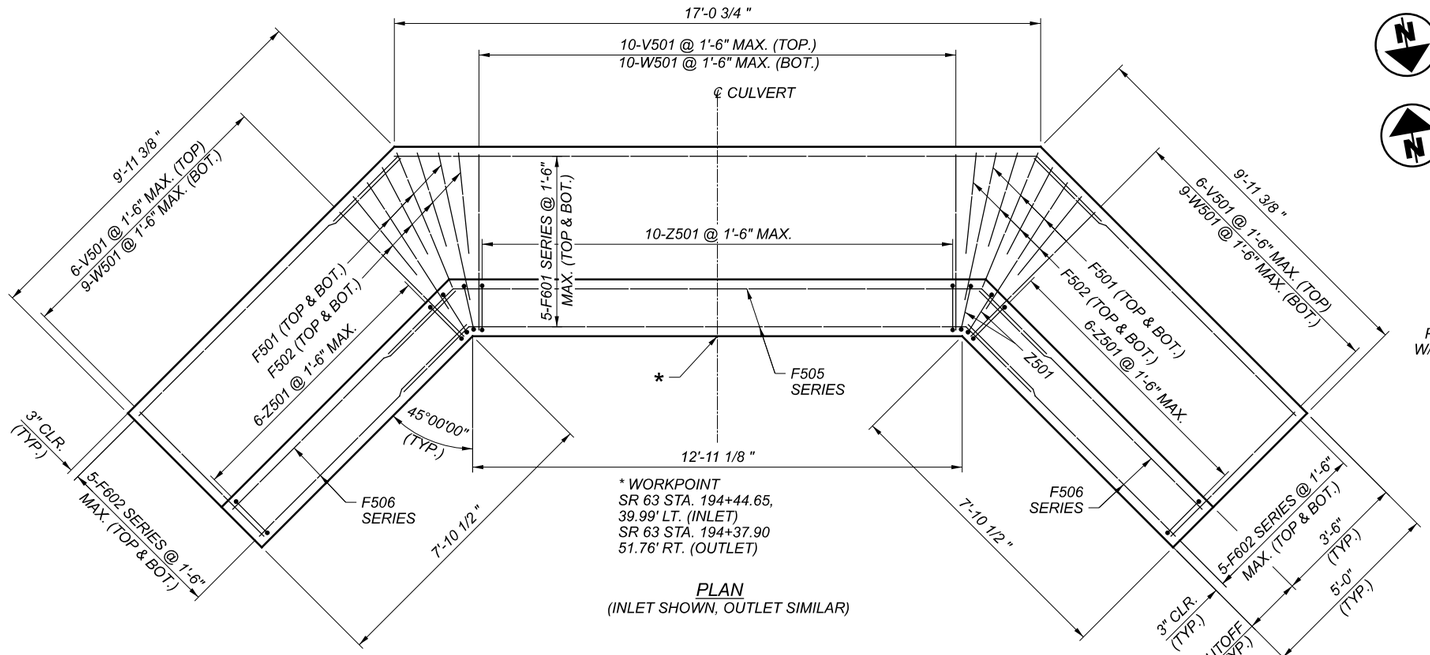
ELEVATION
(INLET SHOWN, OUTLET SIMILAR)

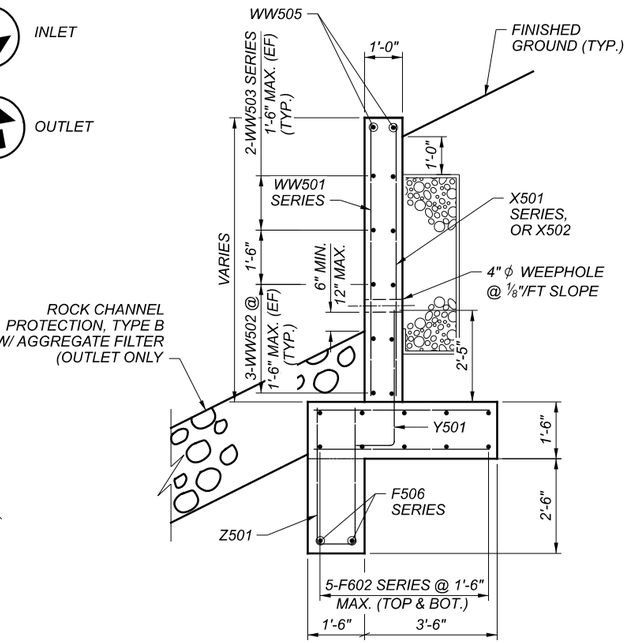
CULVERT & WINGWALL LAYOUT
BRIDGE NO. WAR-63-0248
SR 63 OVER STREAM 3

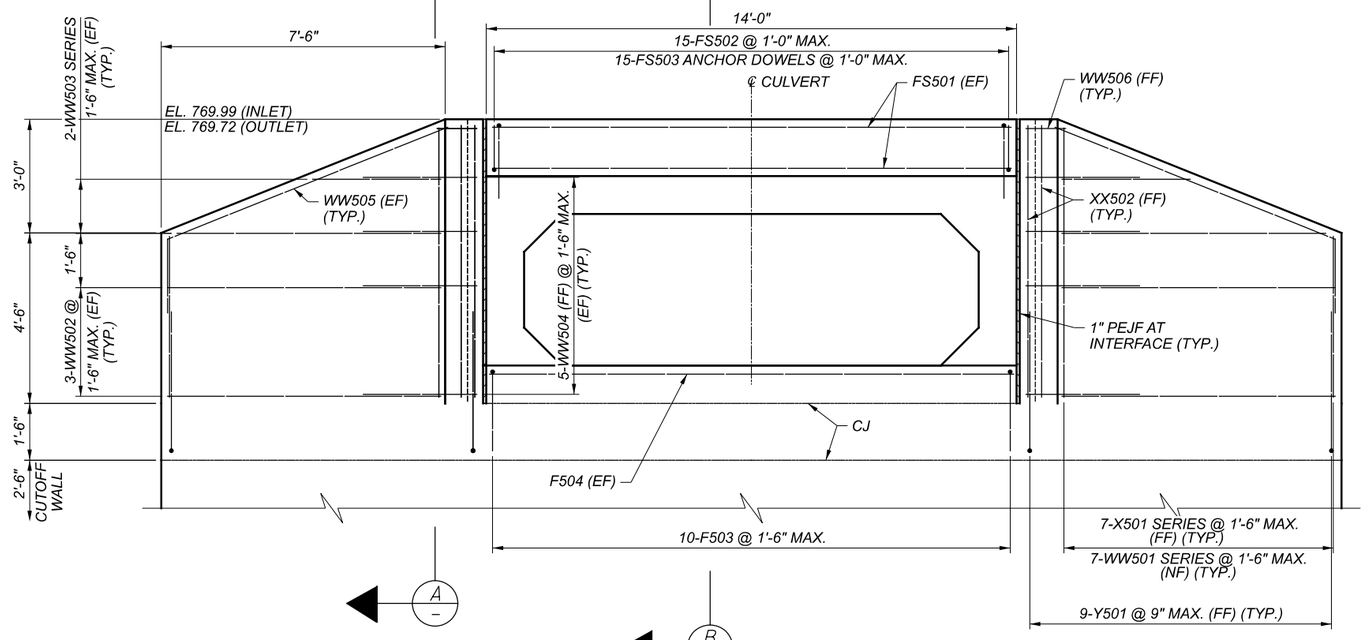
SFN	8301486
DESIGN AGENCY	JACOBS
DESIGNER	MJR
CHECKER	FBW
REVIEWER	JTC 08-22-23
PROJECT ID	112121
SUBSET	3
TOTAL	5
SHEET	352
TOTAL	436

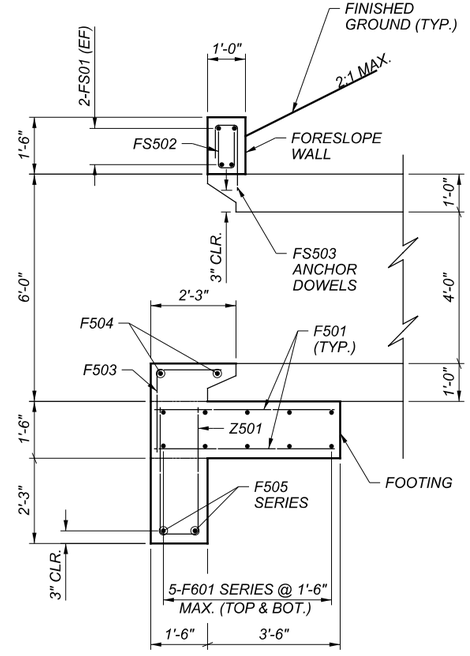
WAR-63-0.83

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NOTES:

1. FOR CULVERT LOCATION PLAN, SEE SHEET 3.
2. FOR PRECAST BOX CULVERT DETAILS, SEE SHEET 1.
3. THE LAP SPLICE LENGTHS USED IN THESE DETAILS ARE AS FOLLOWS: 2'-5" FOR #5 BARS, 3'-1" FOR #6 BARS.

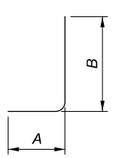
CULVERT DETAILS
BRIDGE NO. WAR-63-0248
SR 63 OVER STREAM 3

SFN	8301486
DESIGN AGENCY	JACOBS
DESIGNER	MJR
CHECKER	FBW
REVIEWER	JTC 08-22-23
PROJECT ID	112121
SUBSET	4
TOTAL	5
SHEET	353
TOTAL	436

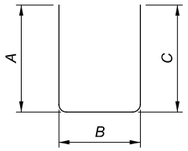
WAR-63-0.83

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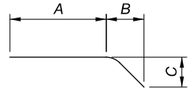
MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS						
	INLET	OUTLET	TOTAL				A	B	C	D	E	R	INC
WINGWALLS													
X501	2 SERIES OF 7	2 SERIES OF 7	4 SERIES OF 7	4'-4" TO 7'-4"	170	STR							0'-6"
X502	4	4	8	7'-4"	61	STR							
Y501	18	18	36	4'-4"	163	1	0'-10"	3'-8"					
WW501	2 SERIES OF 7	2 SERIES OF 7	4 SERIES OF 7	4'-4" TO 7'-4"	170	STR							0'-6"
WW502	12	12	24	8'-2"	204	STR							
WW503	4 SERIES OF 2	4 SERIES OF 2	8 SERIES OF 2	4'-1" TO 8'-2"	102	STR							4'-1"
WW504	10	10	20	2'-7"	54	19	2'-5"	0'-1 1/2"	0'-1 1/2"				
WW505	4	4	8	11'-0"	92	19	2'-5"	2'-10"	8'-2"				
WW506	2	2	4	2'-4"	10	4	2'-0"	0'-4"	0'-1 1/2"				
				SUB-TOTAL	1026								
FOOTING & CUTOFF WALL													
V501	22	22	44	4'-8"	214	STR							
W501	22	22	44	4'-8"	214	STR							
Z501	26	26	52	8'-1"	438	2	3'-7"	1'-2"	3'-7"				
F501	12	12	24	4'-3"	106	STR							
F502	16	16	32	3'-4"	111	STR							
F503	11	11	22	3'-7"	82	1	1'-6"	2'-2"					
F504	2	2	4	13'-8"	57	STR							
F505	1 SERIES OF 2	1 SERIES OF 2	2 SERIES OF 2	17'-9" TO 18'-9"	76	20	1'-8 1/2"	1'-8 1/2"	13'-0" TO 14'-0"	1'-8 1/2"	1'-8 1/2"		1'-0"
F506	2 SERIES OF 2	2 SERIES OF 2	4 SERIES OF 2	7'-9" TO 9'-8"	66	STR							1'-11"
F601	2 SERIES OF 5	2 SERIES OF 5	4 SERIES OF 5	17'-9" TO 21'-9"	593	20	1'-8 1/2"	1'-8 1/2"	13'-0" TO 17'-0"	1'-8 1/2"	1'-8 1/2"		1'-0"
F602	4 SERIES OF 5	4 SERIES OF 5	8 SERIES OF 5	7'-9" TO 8'-2"	478	STR							0'-1½"
				SUB-TOTAL	2435								
FORESLOPE WALL													
FS501	4	4	8	13'-8"	114	STR							
FS502	15	15	30	2'-9"	86	2	1'-2"	0'-8"	1'-2"				
FS503	15	15	30	3'-8"	115	2	1'-2"	0'-8"	2'-1"				
				SUB-TOTAL	315								
				GRAND TOTAL	3776								



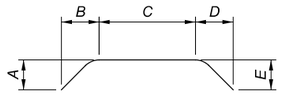
TYPE-1



TYPE-2



TYPE-19



TYPE-20

NOTES:

1. *THE BAR SIZE IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST NUMBER INDICATES THE BAR SIZE NUMBER.*
2. *ALL DIMENSIONS ARE MEASURED OUT-TO-OUT OF BAR UNLESS NOTED OTHERWISE.*
3. *FOR STANDARD HOOK DIMENSIONS, SEE SECTION 509.05 OF THE SPECIFICATIONS.*
4. *ALL REINFORCING STEEL SHALL BE EPOXY COATED, GRADE 60.*

REINFORCING STEEL LIST
BRIDGE NO. WAR-63-0248
SR 63 OVER STREAM 3

SFN 8301486

DESIGN AGENCY

JACOBS

DESIGNER	CHECKER
MJR	FBW

REVIEWER: JTC 08/22/23

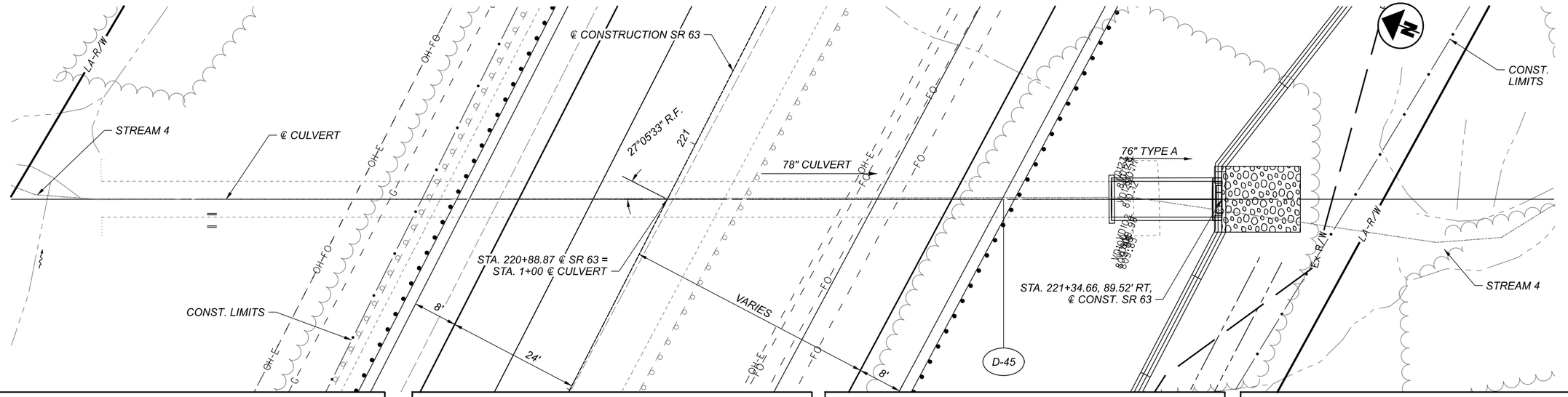
PROJECT ID: 112121

SUBSET	TOTAL
5	5

SHEET	TOTAL
354	436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 3:23:29 PM USER: Tahir.Sondo@jacobs.com
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ESTIMATED QUANTITIES

ITEM	QUANTITY	UNIT	DESCRIPTION
202	4	FT	PIPE REMOVED, OVER 24"
601	23.75	CY	ROCK CHANNEL PROTECTION, TYPE B, WITH
			FILTER
611	20	FT	78" CONDUIT, TYPE A, 707.02(0.168)
			(ALUMINIZED)
TOTALS CARRIED TO SHEET NO. 81			

HYDRAULIC DATA

DRAINAGE AREA = 95 ACRES

Q (25) = 151 CFS V (25) = 9.6 FT/S HW (25) = 814.1 FT

Q (100) = 180 CFS V (100) = 10.0 FT/S HW (100) = 814.6 FT

DESIGN SERVICE LIFE: 75 YEARS

ABRASION LEVEL: 1

pH: 7.5

EXISTING STRUCTURE

TYPE: CMP

SIZE: 78"

SKEW: 27°05'33" R.F.

ALIGNMENT: TANGENT

DATE BUILT: 1993

CONDITION: FAIR

CFN: 1861799

PROPOSED STRUCTURE

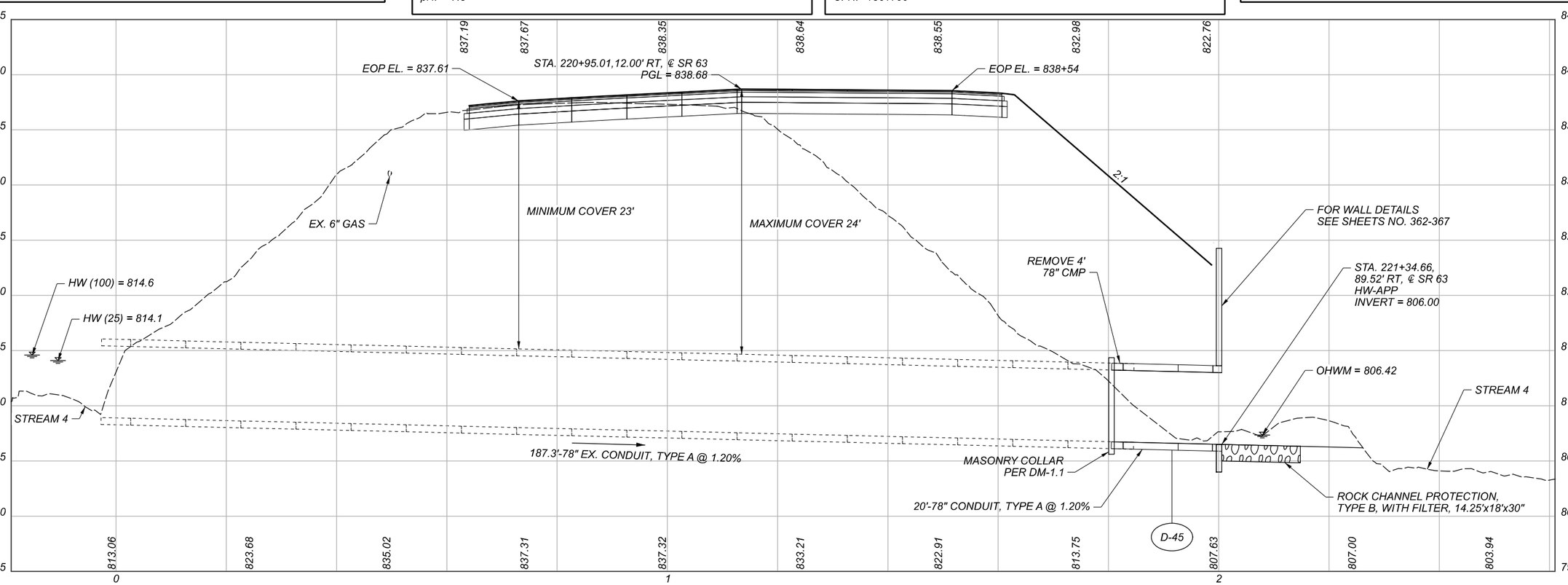
TYPE: 78" CONDUIT, TYPE A, 707.02 (0.138)

SKEW: 27°05'33" R.F.

ALIGNMENT: TANGENT

CFN: 1861799

DESIGN SERVICE LIFE: 75 YEARS



HORIZONTAL SCALE IN FEET
0 5 10 20

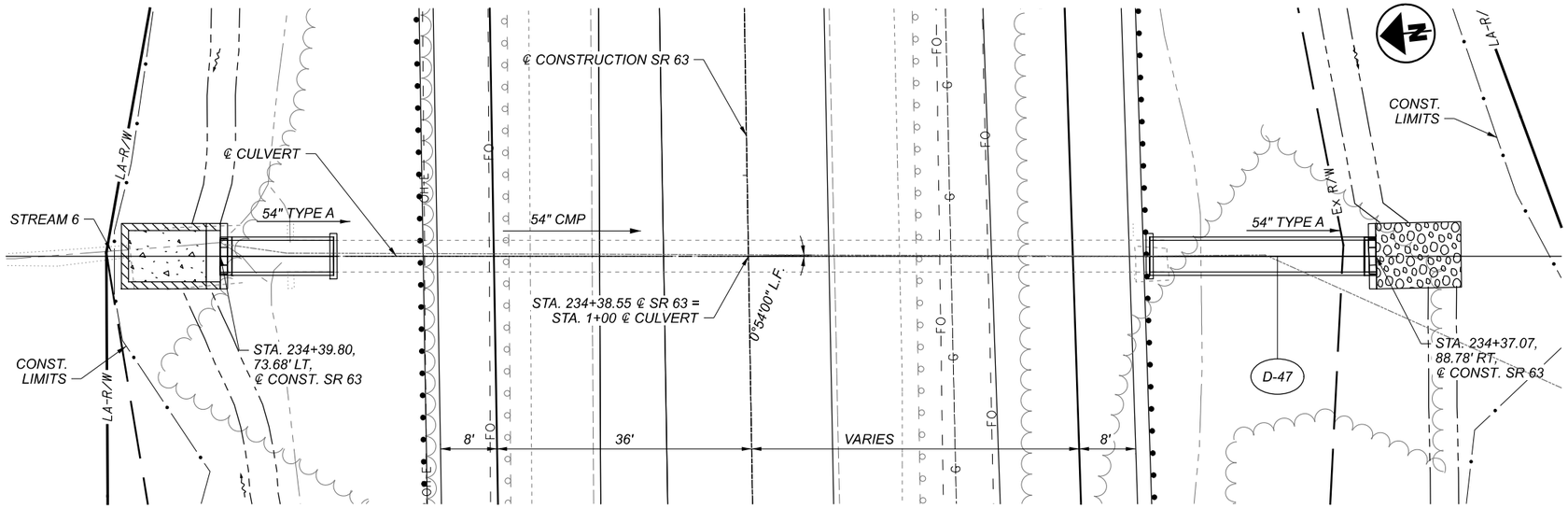
CULVERT DETAIL
SR 63 - STA. 220+88.87

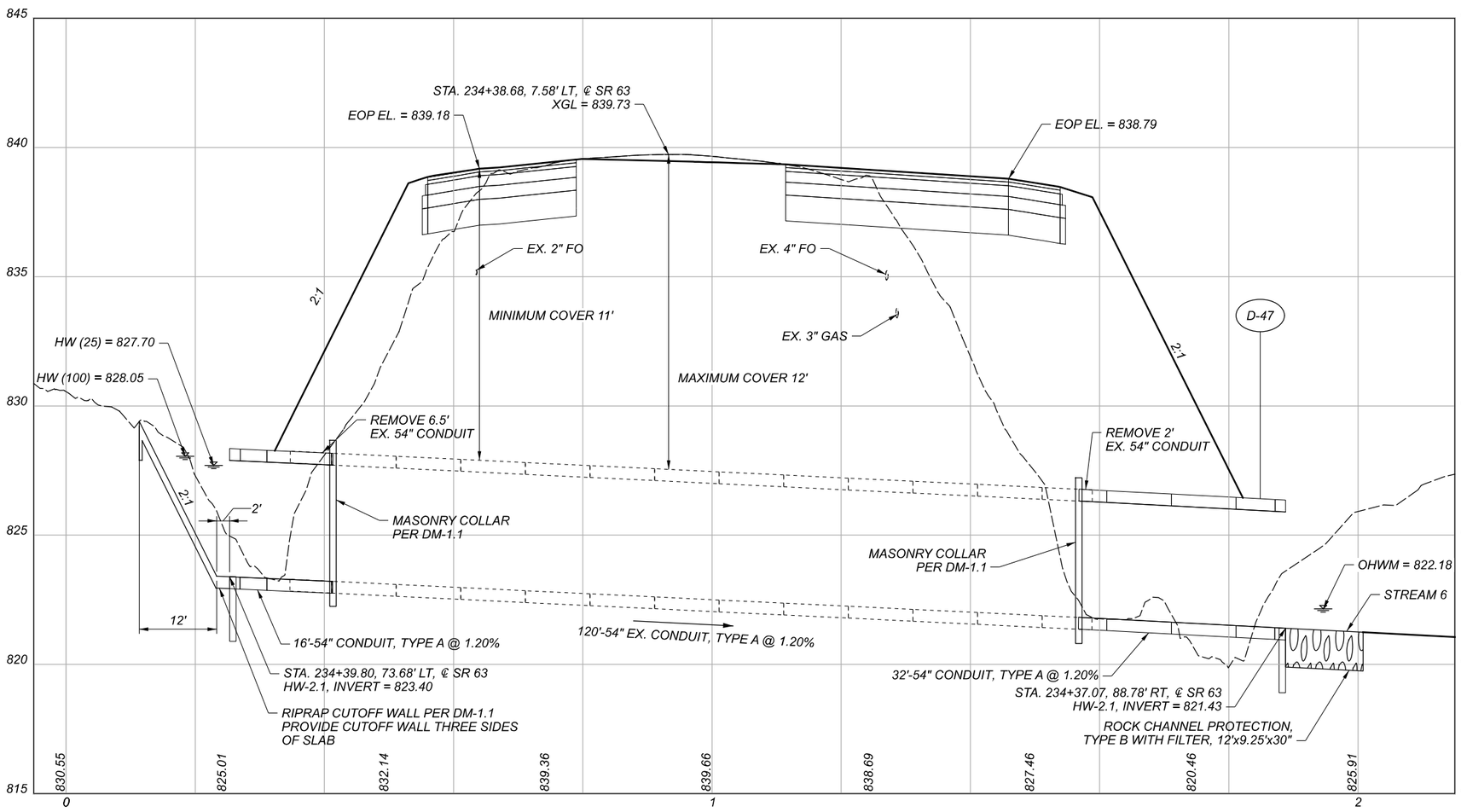
DESIGN AGENCY
JACOBS

DESIGNER	TES
REVIEWER	CTS 08/22/23
PROJECT ID	112121
SUBSET	TOTAL
SHEET	TOTAL
355	436

WAR-63-0.83

MODEL: Culvert_Sta220+89 - Culvert Plan Sta 220+89 [Sheet] PAPERSIZE: 17x11(in) DATE: 8/23/2023 TIME: 3:23:47 PM USER: Tahir.Sondo@Jacobs.com
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ESTIMATED QUANTITIES

ITEM	QUANTITY	UNIT	DESCRIPTION
202	8.5	FT	PIPE REMOVED, OVER 24"
601	10.28	CY	ROCK CHANNEL PROTECTION, TYPE B, WITH
			FILTER
601	14.40	SY	RIPRAP, TYPE D
602	2.66	CY	CONCRETE MASONRY
611	48	FT	54" CONDUIT, TYPE A, 707.02 (0.138)
			(ALUMINIZED)

TOTALS CARRIED TO SHEET NO. 81

HYDRAULIC DATA

DRAINAGE AREA = 28 ACRES

Q (25) = 69 CFS V (25) = 7.9 FT/S HW (25) = 827.7 FT

Q (100) = 81 CFS V (100) = 8.4 FT/S HW (100) = 828.0 FT

DESIGN SERVICE LIFE: 75 YEARS

ABRASION LEVEL: 2

pH: 6

EXISTING STRUCTURE

TYPE: CMP

SIZE: 54"

SKEW: 0°54'00" L.F.

ALIGNMENT: TANGENT

DATE BUILT: 1994

CONDITION: GOOD

CFN: 1863138

PROPOSED STRUCTURE

TYPE: 54" CONDUIT, TYPE A, 707.02 (0.138) (ALUMINUM COATED)

SKEW: 0°54'00" L.F.

ALIGNMENT: TANGENT

CFN: 1863138

DESIGN SERVICE LIFE: 75 YEARS

ITEM 601 RIPRAP SHALL BE PER SCD DM-1.1 WITH DIMENSIONS PER DETAILS ON THIS SHEET.

HORIZONTAL SCALE IN FEET
0 5 10 20

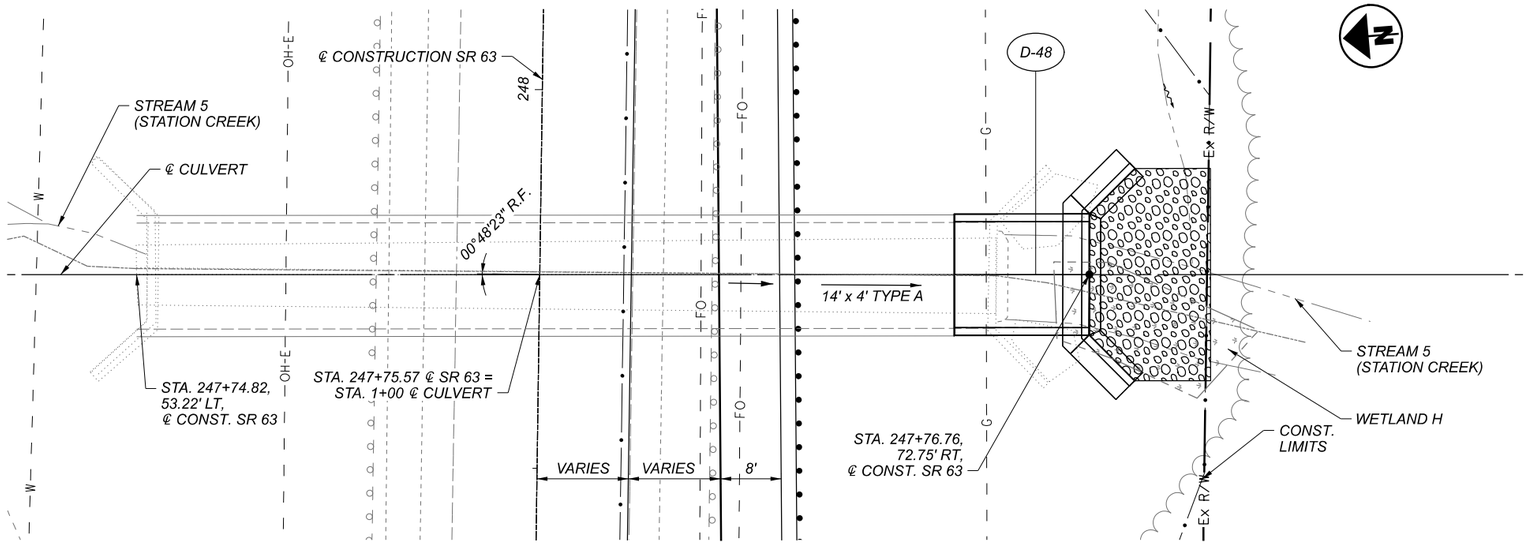
CULVERT DETAIL SR 63 STA. 234+38.55

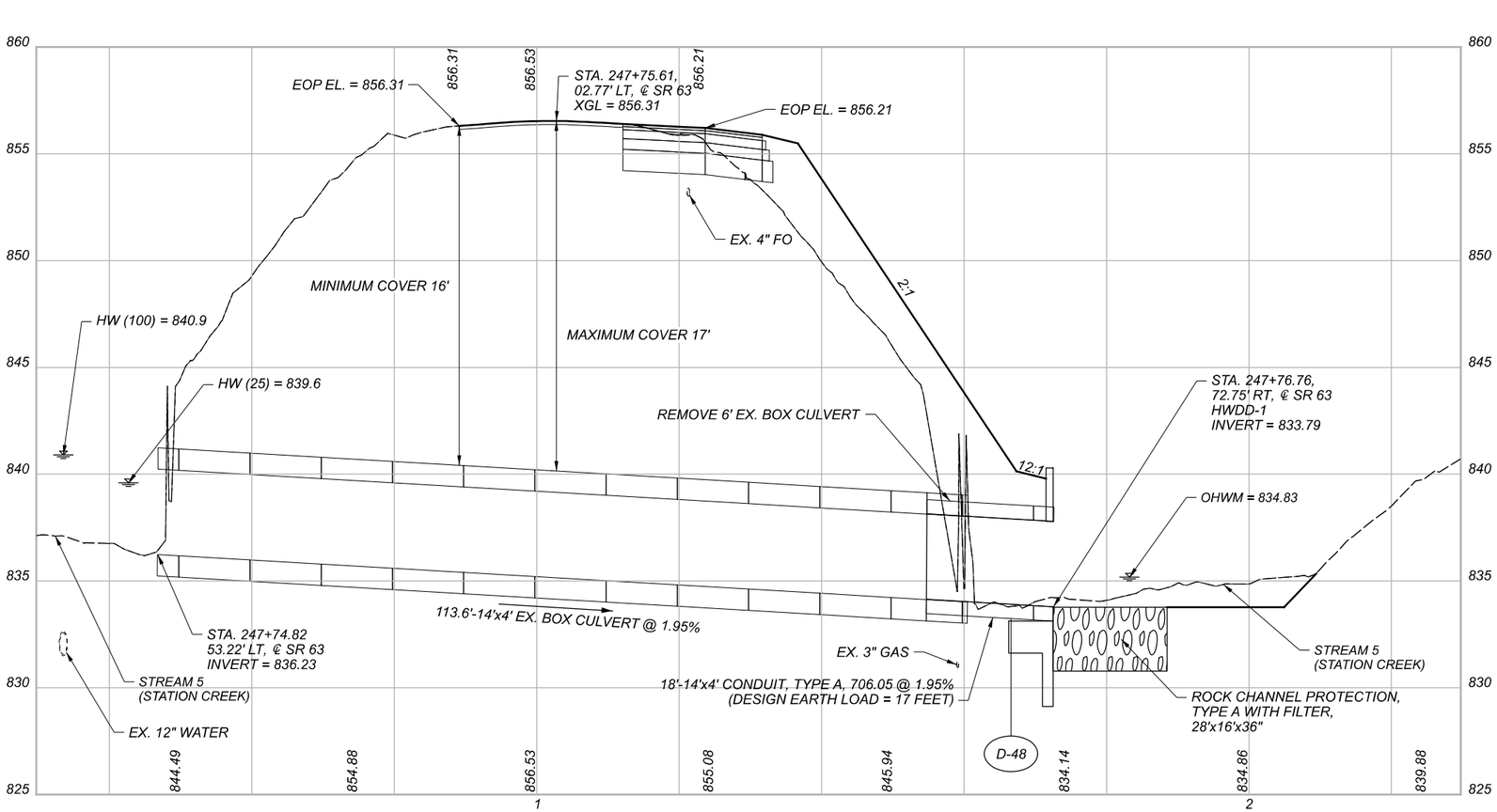
DESIGN AGENCY
JACOBS

DESIGNER	TES
REVIEWER	CTS 08/22/23
PROJECT ID	112121
SUBSET	TOTAL
SHEET	TOTAL 356 436

WAR-63-0.83

MODEL: Culvert_Sta234+39 - Culvert Plan Sta234+39 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 3:23:52 PM USER: Tahir.Sondos@jacobs.com
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HYDRAULIC DATA

DRAINAGE AREA = 192 ACRES

Q (25) =	235 CFS	V (25) =	16.1 FT/S	HW (25) =	839.6 FT
Q (100) =	345 CFS	V (100) =	18.5 FT/S	HW (100) =	840.9 FT

DESIGN SERVICE LIFE: 75 YEARS
ABRASION LEVEL: 1
pH: 7.5

EXISTING STRUCTURE

TYPE: CONCRETE BOX
SIZE: 14'x4'
SKEW: 0°48'23" R.F.
ALIGNMENT: TANGENT
DATE BUILT: 2004
CONDITION: GOOD
SFN: 8301514

PROPOSED STRUCTURE

TYPE: 14'x4' CONDUIT, TYPE A, 706.05

SKEW: 0°48'23" R.F.
ALIGNMENT: TANGENT
SFN: 8301514
DESIGN SERVICE LIFE: 75 YEARS

HORIZONTAL SCALE IN FEET
0 5 10 20

CULVERT DETAIL SR 63 STA. 247+75.57

DESIGN AGENCY
JACOBS

DESIGNER TES
REVIEWER CTS 08/22/23
PROJECT ID 112121
SUBSET 1 TOTAL 5
SHEET 357 TOTAL 436

WAR-63-0.83

MODEL: Culvert_Sta247+76 - Culvert Plan Sta247+76 [Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 3:23:56 PM USER: Tahir.Sondo@jacobs.com
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REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS

N/A

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 9TH EDITION, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA

THE FOLLOWING DESIGN DATA IS ASSUMED:

- INTERNAL ANGLE OF FRICTION OF BACKFILL SOIL, ϕ_{bf} = 30°
- TOTAL UNIT WEIGHT OF BACKFILL SOIL = 120 PCF
- INTERNAL ANGLE OF FRICTION (DRAINED), FOUNDATION SOIL, ϕ_f = 28°
- UNDRAINED SHEAR STRENGTH (COHESIVE), FOUNDATION SOIL, S_u = 1500 PSF
- UNIT WEIGHT OF CONCRETE = 150 PCF
- SLOPE OF BACKFILL = 2:1 (TYPE A & B HEADWALLS)
- HEIGHT OF LIVE LOAD SURCHARGE = 2 FT (TYPE C HEADWALLS)

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4000 PSI (FOOTING, WINGWALL AND FORESLOPE WALL)

REINFORCING STEEL - ASTM A615, A616, OR A617 GRADE 60 MINIMUM YIELD STRENGTH 60,000 PSI (ALL REINFORCING SHALL BE EPOXY COATED)

PRECAST CONCRETE

THE DEPARTMENT WILL PERMIT THE USE OF PRECAST CONCRETE IN LIEU OF CAST-IN-PLACE CONCRETE FOR HEADWALLS AND WINGWALLS IN ACCORDANCE WITH SS851. THE DEPARTMENT WILL PAY FOR THE WINGWALL AND HEADWALL CONCRETE IN SQUARE FEET AS DETAILED IN SS851.08. THE TOTAL PLAN QUANTITY OF CAST-IN-PLACE WINGWALL AND HEADWALL CONCRETE IS 126 SF.

FORESLOPE WALL ANCHOR DOWELS:

ANCHOR PER CMS 510 WITH NONSHRINK, NONMETALLIC GROUT CONFORMING TO CMS 705.20 AND TO A DEPTH SPECIFIED ON SHEET XX/XX. PAYMENT FOR DOWEL HOLES, GROUT AND INSTALLATION SHALL BE INCLUDED WITH ITEM 511.

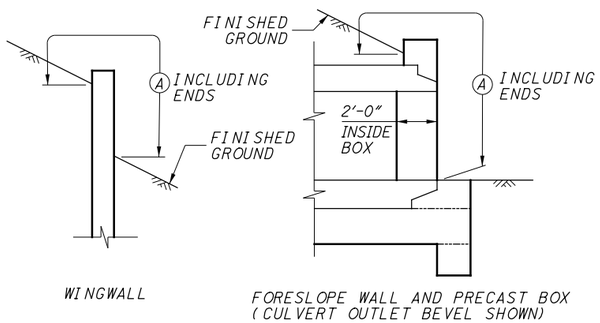
THREADED INSERTS OR NON-PROTRUDING MECHANICAL CONNECTORS CAPABLE OF DEVELOPING AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE REINFORCEMENT SHOWN ARE AN ACCEPTABLE ALTERNATIVE TO RESIN BONDING. MAINTAIN A MINIMUM COVER OF 3 INCHES AT THE BOTTOM OF THE CULVERT SLAB. MECHANICAL CONNECTORS SHALL HAVE AN "L-SHAPED" BAR INSIDE THE CULVERT WITH A MINIMUM HORIZONTAL LENGTH OF 12 INCHES. THE DEPARTMENT WILL CONSIDER PAYMENT FOR INSERTS OR MECHANICAL CONNECTORS AS INCIDENTAL TO ITEM 611.

BACKFILL LIMITATION

WHEN THE DESIGN HEIGHT IS GREATER THAN 10 FT, THE BACKFILL BEHIND THE WINGWALLS SHALL NOT BE PLACED HIGHER THAN THE ELEVATION OF THE SOIL ABOVE THE TOE. WHEN THE SOIL ABOVE THE TOE IS AT ITS FINISHED ELEVATION, THE REMAINDER OF THE BACKFILL MAY BE PLACED.

ITEM 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

ALL EXPOSED FORESLOPE WALL AND WINGWALL CONCRETE SHALL BE SEALED WITH EPOXY-URETHANE SEALER. THE LIMITS SHALL BE AS SHOWN IN THE DIAGRAMS BELOW. PAYMENT FOR THE EPOXY-URETHANE SEALER SHALL BE PER ITEM 512 - SEALING OF CONCRETE SURFACES.



LIMITS OF ITEM 512-SEALING CONCRETE SURFACES

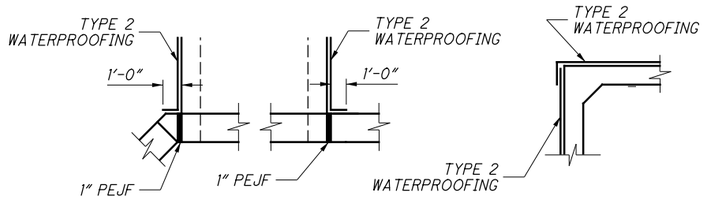
(A) - SEAL ENTIRE CONCRETE SURFACE AREA

	ESTIMATED QUANTITIES						
	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	GEN	SHEET
LS	202	11200	LS	LS	PORTIONS OF STRUCTURE REMOVED	LS	
LS	503	11100	LS	LS	COFFERDAMS AND EXCAVATION BRACING	LS	
LS	503	21300	LS	LS	UNCLASSIFIED EXCAVATION	LS	
1908	509	10000	1908	LB	EPOXY COATED REINFORCING STEEL	1908	
4	511	46010	4	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	4	
15	511	46510	15	CY	CLASS QC1 CONCRETE, FOOTING	15	
1	511	46610	1	CY	CLASS QC1 CONCRETE, HEADWALL	1	
21	512	10100	21	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	21	
40	512	33000	40	SY	TYPE 2 WATERPROOFING	40	
15	516	13600	15	SF	1" PREFORMED EXPANSION JOINT FILLER	15	
5	518	21200	5	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	5	
50	601	32010	412	CY	ROCK CHANNEL PROTECTION, TYPE A WITH AGGREGATE FILTER	50	
18	611	96300	18	FT	14' X 4' CONDUIT, TYPE A, 706.05, HEIGHT OF COVER = 17 FT	18	

ITEM 516, TYPE 2 WATERPROOFING

TYPE 2 WATERPROOFING, PER CMS 512 AND 711.25, SHALL EXTEND VERTICALLY DOWN THE ENTIRE SIDES OF THE PRECAST CULVERT SECTIONS FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING.

IF PAVEMENT IS NOT PLACED DIRECTLY ON TOP OF THE CULVERT, TYPE 2 WATERPROOFING, PER CMS 512 AND 711.25 SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE PRECAST CULVERT SECTIONS AND SHALL EXTEND ONE FOOT VERTICALLY DOWN THE SIDES FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING.



WATERPROOFING DETAILS

ITEM 518, POROUS BACKFILL WITH FILTER FABRIC

1'-6" THICK SHALL BE PLACED BEHIND THE WINGWALLS ONLY AND SHALL EXTEND TO 12" BELOW THE EMBANKMENT SURFACE. GEOTEXTILE FABRIC TYPE A SHALL BE PLACED BETWEEN THE POROUS BACKFILL AND REPLACED EXCAVATION ADJACENT TO THE STRUCTURE. IT SHALL TURN UNDER THE BOTTOM OF THE POROUS BACKFILL AND RETURN 6" ABOVE THE TOP ELEVATION OF THE WEEPHOLE.

WEEPHOLES SHALL BE PLACED 6" TO 12" ABOVE THE NORMAL WATER ELEVATION OR GROUND LINE AND SHALL HAVE A MAXIMUM SPACING OF 10'-0". A MINIMUM OF ONE WEEPHOLE SHALL BE PROVIDED PER WINGWALL.

ITEM 516, PREFORMED EXPANSION JOINT FILLER

PREFORMED EXPANSION JOINT FILLER (PEJF) CONFORMING TO CMS 705.03, 1 INCH THICK, SHALL BE PLACED ABOVE THE FOOTING BETWEEN THE SIDES OF THE BOX CULVERT AND THE ENDS OF THE WINGWALLS. PAYMENT FOR MATERIALS AND INSTALLATION SHALL BE INCLUDED WITH ITEM 516 - 1" PREFORMED EXPANSION JOINT FILLER.

BASIS OF PAYMENT

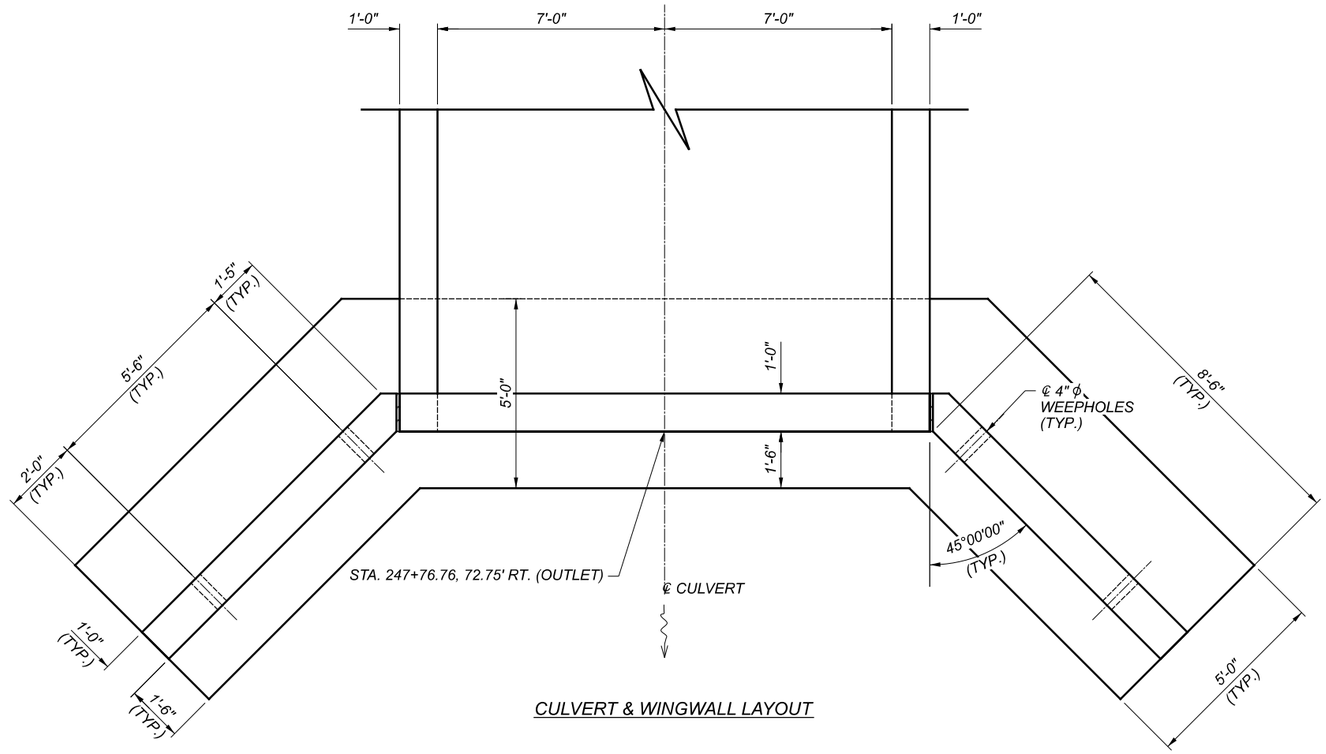
ALL LABOR, EQUIPMENT AND INCIDENTALS REQUIRED TO CONSTRUCT THE FOOTING, CUTOFF WALL, WINGWALLS AND FORESLOPE WALL SHALL BE INCLUDED WITH ITEM 511 - CLASS QC1 CONCRETE, RETAINING/WINGWALL INCLUDING FOOTING. PAYMENT FOR REINFORCING STEEL SHALL BE INCLUDED WITH ITEM 509 - EPOXY COATED REINFORCING STEEL.

GENERAL NOTES & ESTIMATED QUANTITIES
BRIDGE NO. WAR-63-0349
SR 63 OVER STATION CREEK (STREAM 5)

SFN 8301514
DESIGN AGENCY JACOBS
DESIGNER MJR | CHECKER FBW
REVIEWER JTC 08-22-23
PROJECT ID 112121
SUBSET 2 | TOTAL 5
SHEET 358 | TOTAL 436

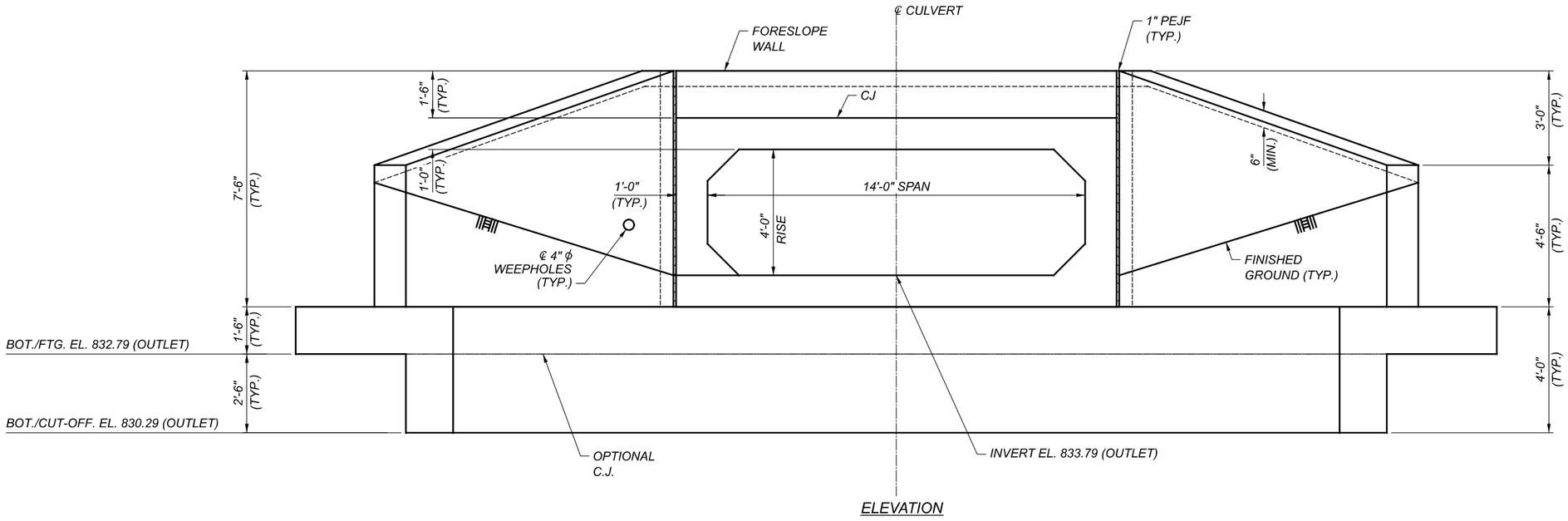
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CULVERT & WINGWALL LAYOUT

OUTLET



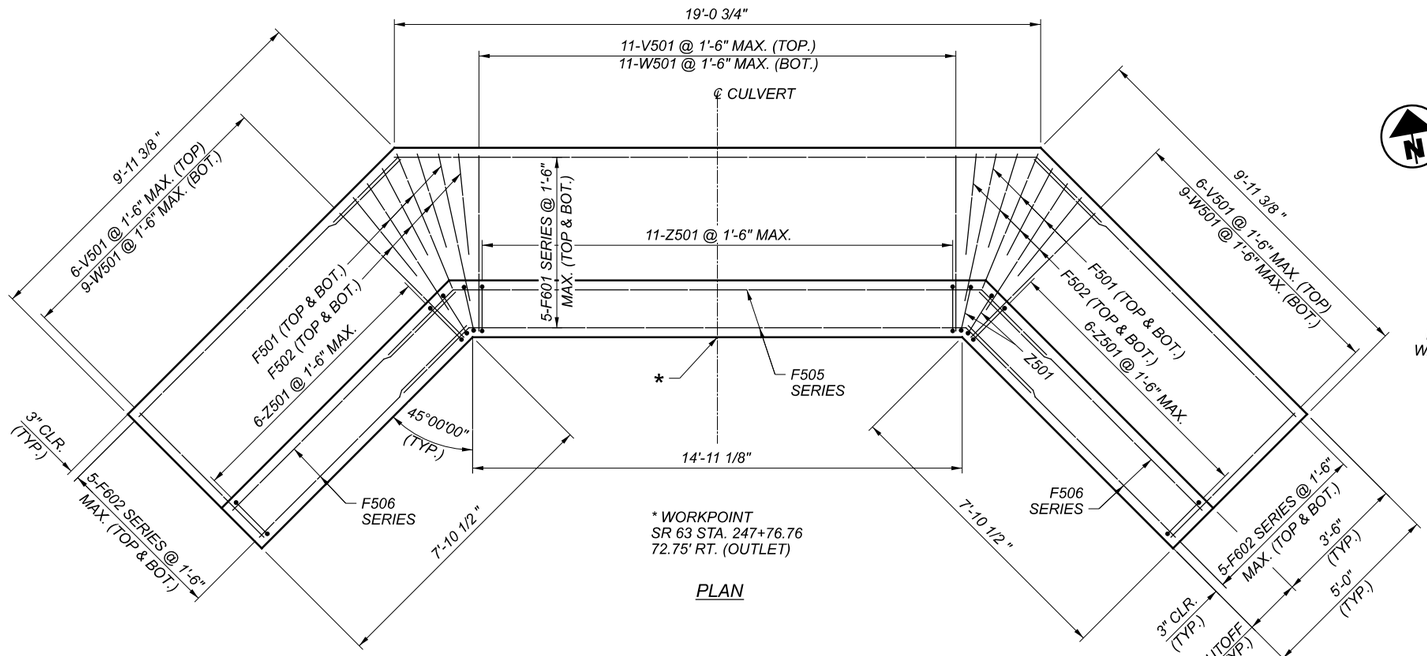
ELEVATION

CULVERT & WINGWALL LAYOUT
BRIDGE NO. WAR-63-0349
SR 63 OVER STATION CREEK (STREAM 5)

SFN	8301514
DESIGN AGENCY	JACOBS
DESIGNER	MJR
CHECKER	FBW
REVIEWER	JTC 08-22-23
PROJECT ID	112121
SUBSET	3
TOTAL	5
SHEET	359
TOTAL	436

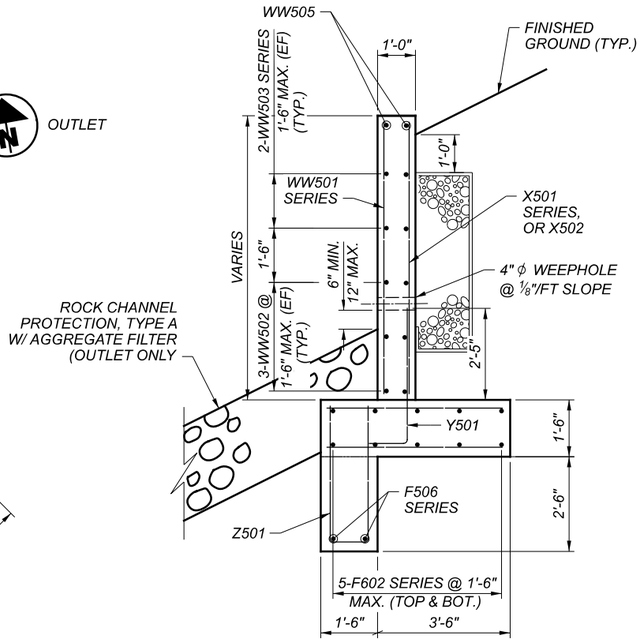
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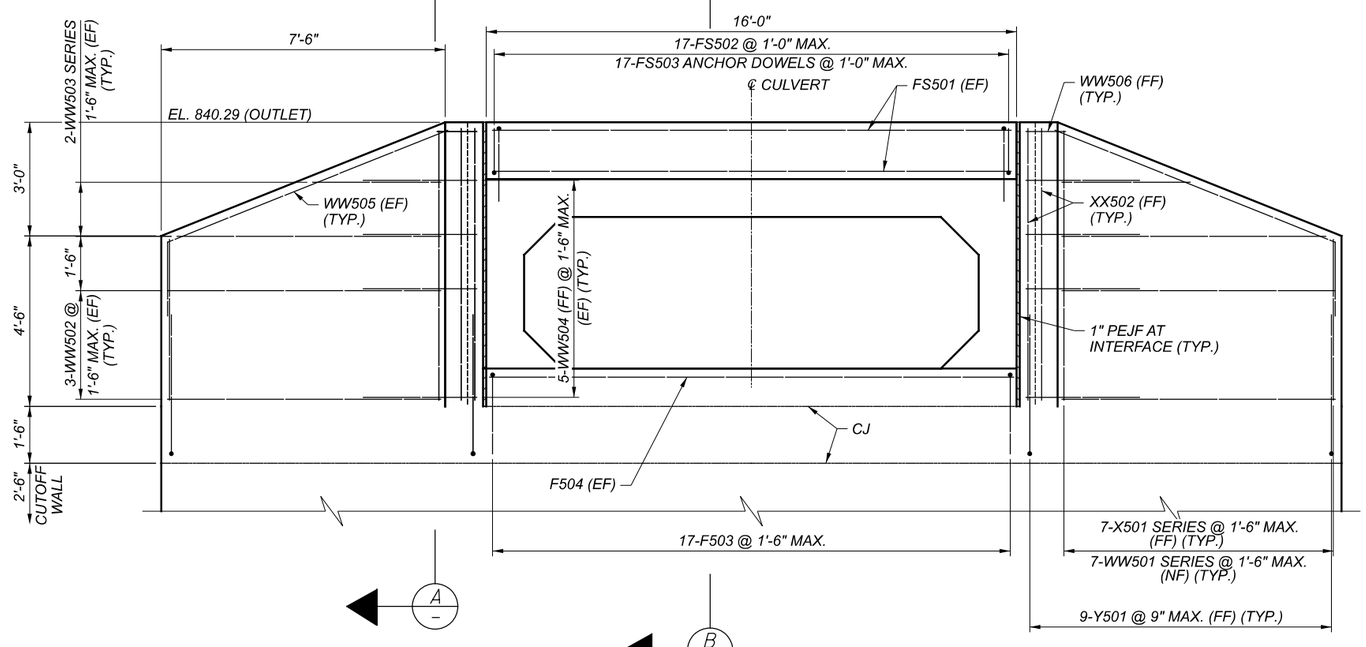


PLAN

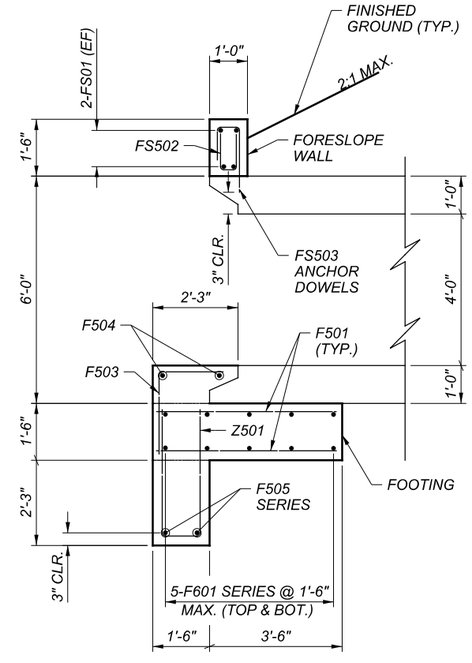
OUTLET



A — SECTION



DEVELOPED WINGWALL ELEVATION



B — SECTION

NOTES:

1. FOR CULVERT LOCATION PLAN, SEE SHEET 3.
2. FOR PRECAST BOX CULVERT DETAILS, SEE SHEET 1.
3. THE LAP SPLICE LENGTHS USED IN THESE DETAILS ARE AS FOLLOWS: 2'-5" FOR #5 BARS, 3'-1" FOR #6 BARS.

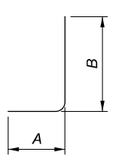
CULVERT DETAILS
BRIDGE NO. WAR-63-0349
SR 63 OVER STATION CREEK (STREAM 5)

SFN	8301514
DESIGN AGENCY	JACOBS
DESIGNER	MJR
CHECKER	FBW
REVIEWER	JTC 08-22-23
PROJECT ID	112121
SUBSET	4
TOTAL	5
SHEET	360
TOTAL	436

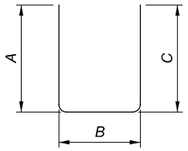
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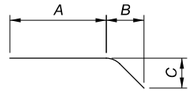
MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS						
	OUTLET	TOTAL				A	B	C	D	E	R	INC
WINGWALLS												
X501	2 SERIES OF 7	2 SERIES OF 7	4'-4" TO 7'-4"	85	STR							0'-6"
X502	4	4	7'-4"	31	STR							
Y501	18	18	4'-4"	81	1	0'-10"	3'-8"					
WW501	2 SERIES OF 7	2 SERIES OF 7	4'-4" TO 7'-4"	85	STR							0'-6"
WW502	12	12	8'-2"	102	STR							
WW503	4 SERIES OF 2	4 SERIES OF 2	4'-1" TO 8'-2"	51	STR							4'-1"
WW504	10	10	2'-7"	27	19	2'-5"	0'-1 1/2"	0'-1 1/2"				
WW505	4	4	11'-0"	46	19	2'-5"	2'-10"	8'-2"				
WW506	2	2	2'-4"	5	4	2'-0"	0'-4"	0'-1 1/2"				
			SUB-TOTAL	513								
FOOTING & CUTOFF WALL												
V501	11	11	4'-8"	54	STR							
W501	29	29	4'-8"	141	STR							
Z501	23	23	8'-1"	194	2	3'-7"	1'-2"	3'-7"				
F501	12	12	4'-3"	53	STR							
F502	16	16	3'-4"	56	STR							
F503	11	11	3'-7"	41	1	1'-6"	2'-2"					
F504	2	2	15'-8"	33	STR							
F505	1 SERIES OF 2	1 SERIES OF 2	19'-9" TO 20'-9"	42	20	1'-8 1/2"	1'-8 1/2"	15'-0" TO 16'-0"	1'-8 1/2"	1'-8 1/2"		1'-0"
F506	2 SERIES OF 2	2 SERIES OF 2	7'-9" TO 9'-8"	36	STR							1'-11"
F601	2 SERIES OF 5	2 SERIES OF 5	19'-9" TO 23'-9"	327	20	1'-8 1/2"	1'-8 1/2"	15'-0" TO 19'-0"	1'-8 1/2"	1'-8 1/2"		1'-0"
F602	4 SERIES OF 5	4 SERIES OF 5	7'-9" TO 8'-2"	239	STR							0'- 1½"
			SUB-TOTAL	1216								
FORESLOPE WALL												
FS501	4	4	15'-8"	65	STR							
FS502	17	17	2'-9"	49	2	1'-2"	0'-8"	1'-2"				
FS503	17	17	3'-8"	65	2	1'-2"	0'-8"	2'-1"				
			SUB-TOTAL	179								
			GRAND TOTAL	1908								



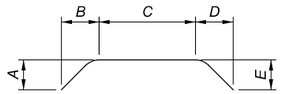
TYPE-1



TYPE-2



TYPE-19



TYPE-20

NOTES:

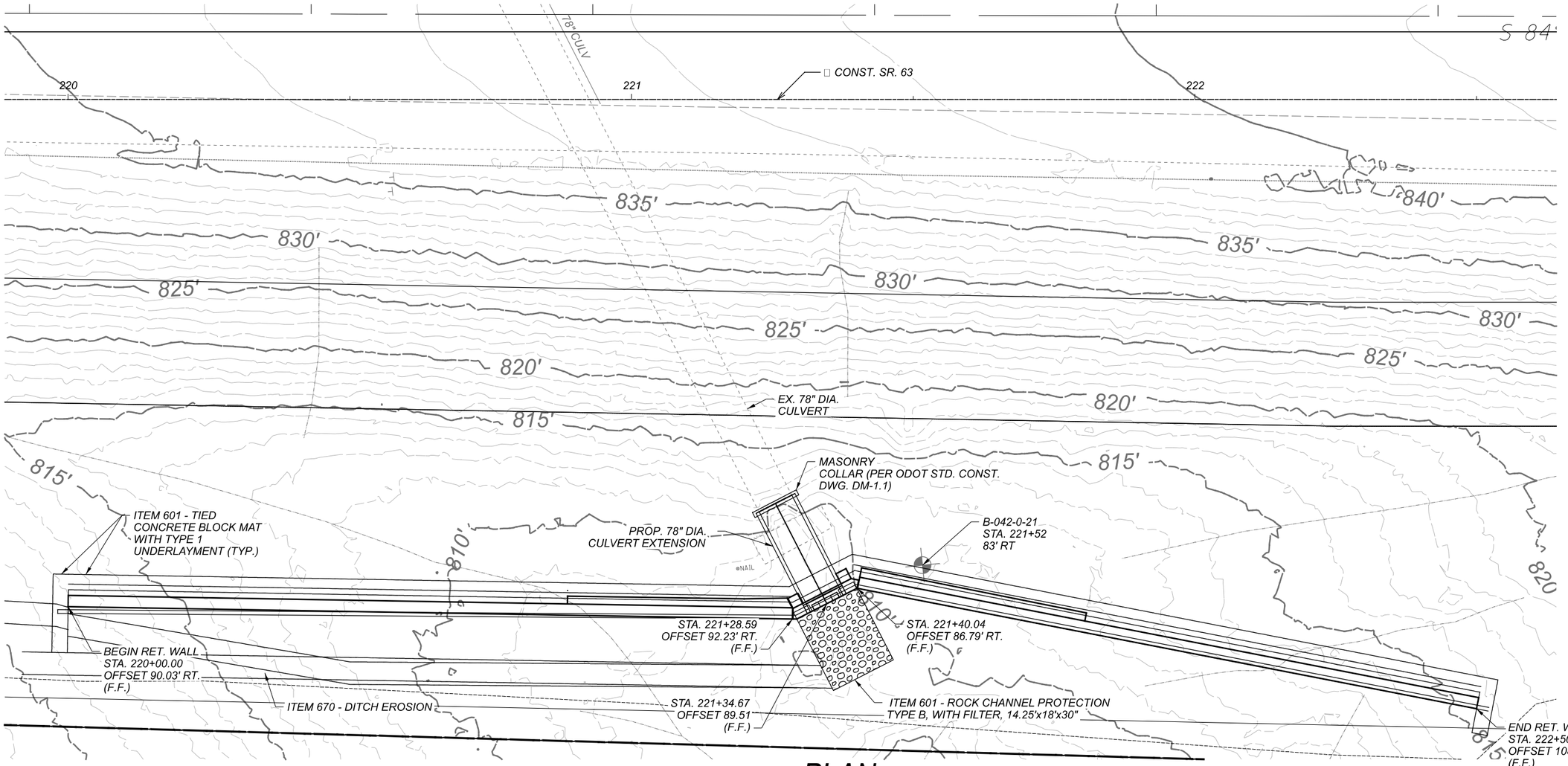
1. *THE BAR SIZE IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST NUMBER INDICATES THE BAR SIZE NUMBER.*
2. *ALL DIMENSIONS ARE MEASURED OUT-TO-OUT OF BAR UNLESS NOTED OTHERWISE.*
3. *FOR STANDARD HOOK DIMENSIONS, SEE SECTION 509.05 OF THE SPECIFICATIONS.*
4. *ALL REINFORCING STEEL SHALL BE EPOXY COATED, GRADE 60.*

REINFORCING STEEL LIST
BRIDGE NO. WAR-63-0349
SR 63 OVER STATION CREEK (STREAM 5)

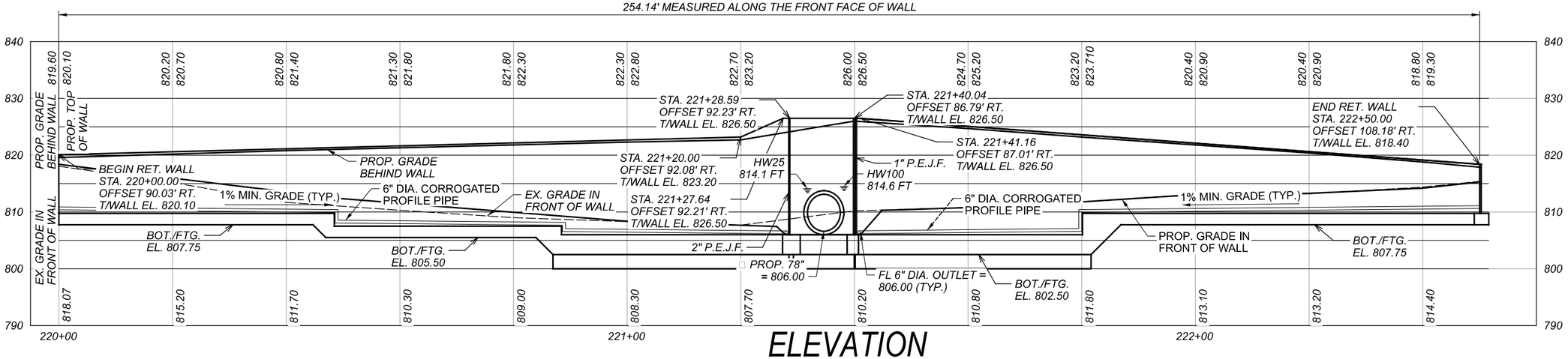
SFN	8301514
DESIGN AGENCY	JACOBS
DESIGNER	MJR
CHECKER	FBW
REVIEWER	JTC 08-22-23
PROJECT ID	112121
SUBSET	5
TOTAL	5
SHEET	361
TOTAL	436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 3:24:45 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Drainage\Sheets\112121_DM002.dgn



PLAN



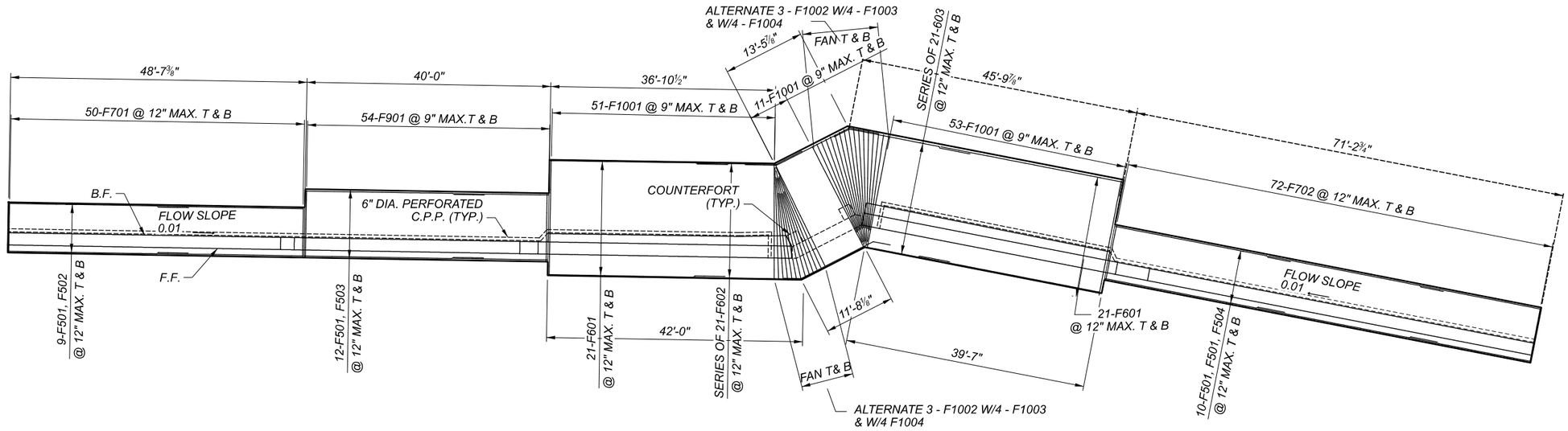
ELEVATION

RETAINING WALL PLAN & ELEVATION
RETAINING WALL ON RIGHT OF SR 63
WAR-SR 63-0.83, SR 63 RECONSTRUCTION

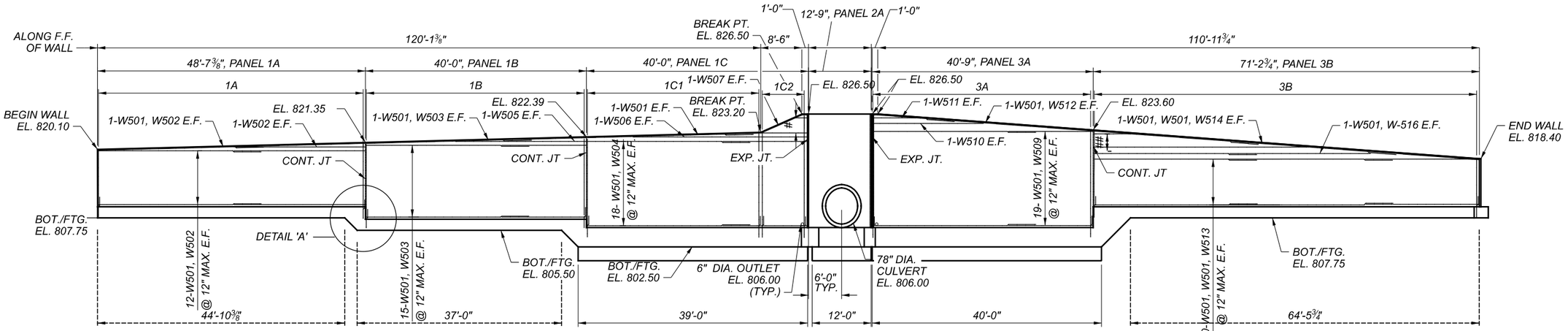
SFN	
DESIGN AGENCY	JACOBS
DESIGNER	CHECKER
MM	MAN
REVIEWER	
FBW 08/22/23	
PROJECT ID	
112121	
SUBSET	TOTAL
1	7
SHEET	TOTAL
362	436

WAR-63-0.83

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pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121400-Engineering\Structures\Ret_Wall1\Sheets\112121_WP001.dgn



FOOTING PLAN



ELEVATION

ALONG FRONT FACE OF WALL

1A

50-W701 @ 12" MAX. B.F. LAP W/ W702
50-W516 @ 12" MAX. F.F. LAP W/ W517

1B

54-W901 @ 9" MAX. B.F. LAP W/ W902
41-W518 @ 12" MAX. F.F. LAP W/ W519

1C1

43-W1001 @ 9" MAX. B.F. LAP W/ W1002
33-W520 @ 12" MAX. F.F. LAP W/ W521

1C2

12-W1003 @ 9" MAX. B.F. LAP W/ W1004
10-W522 @ 12" MAX. F.F. LAP W/ W523

3A

55-W1005 @ 9" MAX. B.F. LAP W/ W1006
42-W524 @ 12" MAX. F.F. LAP W/ W525

3B

72-W801 @ 12" MAX. B.F. LAP W/ W802
72-W526 @ 12" MAX. F.F. LAP W/ W527

#

SERIES OF 4-W508 @ 12" MAX. E.F.

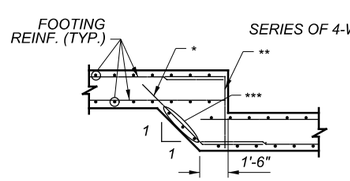
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SERIES OF 4-W515 @ 12" MAX. E.F.

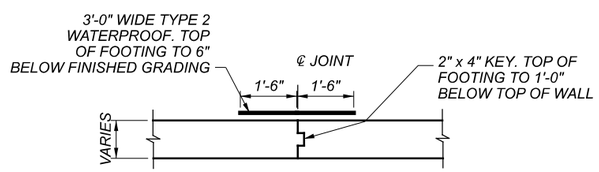
PANEL 1A TO 1B:
* 9 - F505 @ 12" MAX.
** 9 - F506 @ 12" MAX.
*** 3 - F507

PANEL 1B TO 1C:
* 12 - F508 @ 12" MAX.
** 12 - F509 @ 12" MAX.
*** 3 - F510

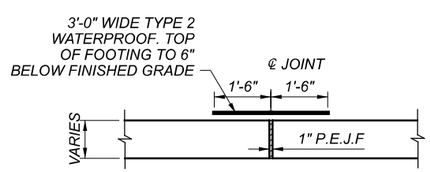
PANEL 3A TO 3B:
* 10 - F511 @ 12" MAX.
** 10 - F512 @ 12" MAX.
*** 3 - F513



DETAIL 'A'



CONTRACTION JOINT DETAIL



EXPANSION JOINT DETAIL

NOTES:
1. *SEE SHEET 6/7 FOR STEM REINFORCING DETAILS FOR PANEL 2A.*

CAST IN PLACE RETAINING WALL DETAILS
RETAINING WALL ON RIGHT OF SR 63
WAR-SR 63-0.83, SR 63 RECONSTRUCTION

SFN

DESIGN AGENCY
JACOBS

DESIGNER	CHECKER
MM	MAN

REVIEWER
FBW 08/22/23

PROJECT ID
112121

SUBSET	TOTAL
2	7

SHEET	TOTAL
363	436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 4:17:17 PM USER: Tahir.Sondo@jacobs.com
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121400-Engineering\Structures\Ret_Wall1\Sheets\112121_WD001.dgn

GENERAL NOTES

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DEASIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 9TH EDITION AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN SPECIFICATIONS: THE FOLLOWING DESIGN DATA IS ASSUMED:

INTERNAL ANGLE OF FRICTION = 30
UNIT WEIGHT OF SOIL = 120 PCF
UNIT WEIGHT OF CONCRETE = 150 PCF
SLOPE OF BACKFILL = 2:1

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4000 PSI
(FOOTING, WINGWALL/RETAINING WALL, AND HEADWALL)

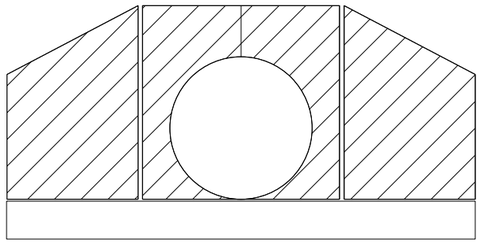
REINFORCING STEEL - ASTM A615, A616, OR A617
GRADE 60 MINIMUM YIELD STRENGTH 60,000 PSI
(ALL REINFORCING STEEL SHALL BE EPOXY COATED)

LOAD MODIFIERS:

OPERATIONAL IMPORTANCE: A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.2 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

LEGEND:

B.F.	-	BACK FACE
CONT.	-	CONTRACTION
CONST.	-	CONSTRUCTION
C.J.	-	CONSTRUCION JOINT
DIA.	-	DIAMETER
EF.	-	EACH FACE
EL.	-	ELEVATION
E/P	-	EDGE OF PAVEMENT
EOB	-	END OF BORING
EXP.	-	EXPANSION
EX.	-	EXISTING
F.F.	-	FRONT FACE
FL.	-	FLOW LINE
INV.	-	INVERT
JT.	-	JOINT
MAX.	-	MAXIMUM
MIN.	-	MINIMUM
P.E.J.F.	-	PREFORMED EXPANSION JOINT FILLER
PROP.	-	PROPOSED
SPA.	-	SPACED
STA.	-	STATION
STD. DWG.	-	STANDARD DRAWING
T&B	-	TOP AND BOTTOM
TYP.	-	TYPICAL



EXISTING CULVERT HEADWALL/ WINGWALL REMOVAL LIMITS

PORTIONS OF STRUCTURE TO BE REMOVED

PREFORMED EXPANSION JOINT PREFORMED EXPANSION JOINT FILLER (P.E.J.F.) CONFORMING TO CMS 705.03, 1 INCH THICK, SHALL BE PLACED ABOVE THE FOOTING BETWEEN THE SIDES OF WALLS. PAYMENT FOR MATERIALS AND INSTALLATION SHALL BE INCLUDED WITH ITEM 516 - 1" PREFORMED EXPANSION JOINT FILLER.

SEALING OF HEADWALL AND ALL EXPOSED WALLS: ALL EXPOSED WALL CONCRETE SHALL BE SEALED WITH EPOXY-URETHANE SEALER. THE LIMITS SHALL BE AS SHOWN IN THE DIAGRAMS BELOW. PAYMENT FOR THE EPOXY-URETHANE SEALER SHALL BE PER ITEM 512 - SEALING OF CONCRETE SURFACES.

FOUNDATION BEARING RESISTANCE:

STA. 220+00.00 TO STA. 220+48.61 FOOTINGS LOCATED BETWEEN THE ABOVE STATIONING, AS DESIGNED PRODUCE A MAXIMUM SERVICE LOAD PRESSURE OF 2.20 KIPS PER SQUARE FOOT AND A MAXIMUM STREGTH LOAD PRESSURE OF 3.00 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 9.00 KIPS PER SQUARE FOOT.

STA. 220+48.61 TO STA. 220.88.60 FOOTINGS LOCATED BETWEEN THE ABOVE STATIONING, AS DESIGNED PRODUCE A MAXIMUM SERVICE LOAD PRESSURE OF 2.90 KIPS PER SQUARE FOOT AND A MAXIMUM STREGTH LOAD PRESSURE OF 3.90 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 9.20 KIPS PER SQUARE FOOT.

STA. 221.88.60 TO STA. 221+80.04 FOOTINGS LOCATED BETWEEN THE ABOVE STATIONING, AS DESIGNED PRODUCE A MAXIMUM SERVICE LOAD PRESSURE OF 2.90 KIPS PER SQUARE FOOT AND A MAXIMUM STREGTH LOAD PRESSURE OF 4.00 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 9.80 KIPS PER SQUARE FOOT.

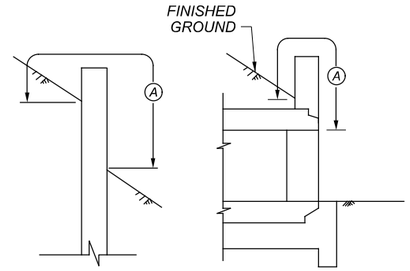
STA. 220+80.04 TO STA. 222+50.00 FOOTINGS LOCATED BETWEEN THE ABOVE STATIONING, AS DESIGNED PRODUCE A MAXIMUM SERVICE LOAD PRESSURE OF 2.20 KIPS PER SQUARE FOOT AND A MAXIMUM STREGTH LOAD PRESSURE OF 3.00 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 8.90 KIPS PER SQUARE FOOT.

BASIS OF PAYMENT: ALL LABOR, EQUIPMENT AND INCIDENTALS REQUIRED TO CONSTRUCT THE WINGWALL STEM SHALL BE INCLUDED WITH ITEM 511 - CLASS QC CONCRETE/RETAINING WINGWALL NOT INCLUDING FOOTING.

ALL LABOR, EQUIPMENT AND INCIDENTALS REQUIRED TO CONSTRUCT THE HEADWALL SHALL BE INCLUDED WITH ITEM 511 - CLASS QC1 CONCRETE, HEADWALL.

ALL LABOR, EQUIPMENT AND INCIDENTALS REQUIRED TO CONSTRUCT THE FOOTING AND CUTOFF WALL SHALL BE INCLUDED WITH ITEM 511 - CLASS QC1 CONCRETE, FOOTING.

PAYMENT FOR REINFORCING STEEL SHALL BE INCLUDED WITH ITEM 509 - EPOXY COATED REINFORCING STEEL.



WINGWALL / RETAINING WALL — HEADWALL AND PIPE

LIMITS OF ITEM 512-SEALING CONCRETE SURFACES

(A) - SEAL ENTIRE CONCRETE SURFACE AREA

ESTIMATED QUANTITIES

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
202	11201	LS		PORTIONS OF STRUCTURES REMOVED, AS PER PLAN	2
203	10000	172	CY	EXCAVATION	
503	21330	LS		UNCLASSIFIED EXCAVATION, INCLUDING ROCK AND/OR SHALE	
509	10000	84,712	LB	EPOXY COATED STEEL REINFORCEMENT	
511	46010	292	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	
511	46510	404	CY	CLASS QC1 CONCRETE, FOOTING	
511	46610	18	CY	CLASS QC1 CONCRETE, HEADWALL	
512	10100	366	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
516	13600	98	SF	1" PREFORMED EXPANSION JOINT FILLER	
518	20000	348	SY	PREFABRICATED GEOCOMPOSITE DRAIN	
518	40000	254	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
601	21050	126	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	

GENERAL NOTES
RETAINING WALL ON RIGHT OF SR 63
WAR-SR 63-0.83, SR 63 RECONSTRUCTION

SFN

DESIGN AGENCY
JACOBS

DESIGNER	CHECKER
MM	MAN

REVIEWER
FBW 08/22/23

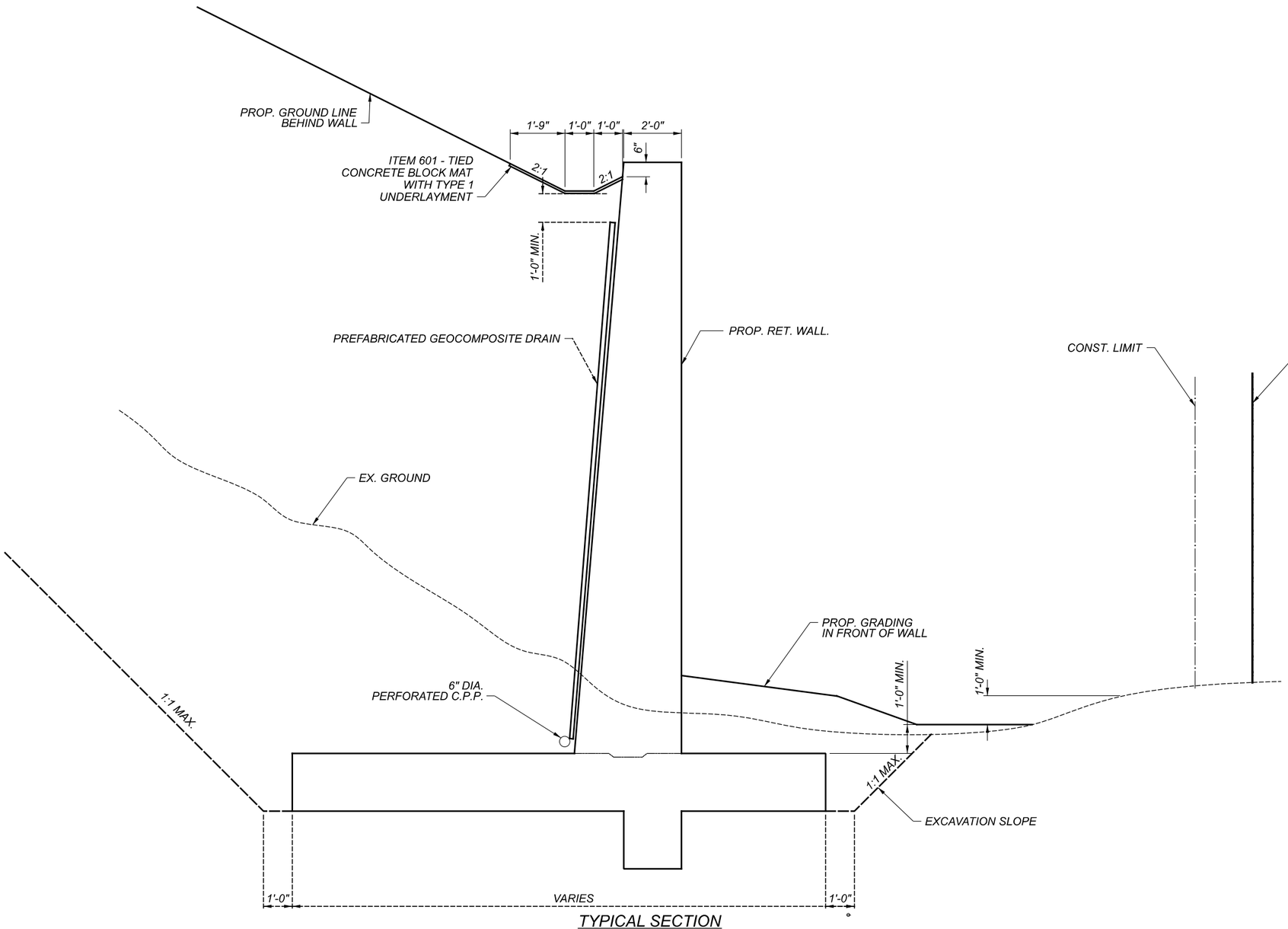
PROJECT ID
112121

SUBSET	TOTAL
3	7

SHEET	TOTAL
364	436

WAR-63-0.83

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TYPICAL SECTION

CAST IN PLACE TYPICAL SECTION (1 OF 3)
RETAINING WALL ON RIGHT OF SR 63
WAR-SR 63-0.83, SR 63 RECONSTRUCTION

SFN

DESIGN AGENCY
JACOBS

DESIGNER	CHECKER
MM	MAN

REVIEWER
FBW 08/22/23

PROJECT ID
112121

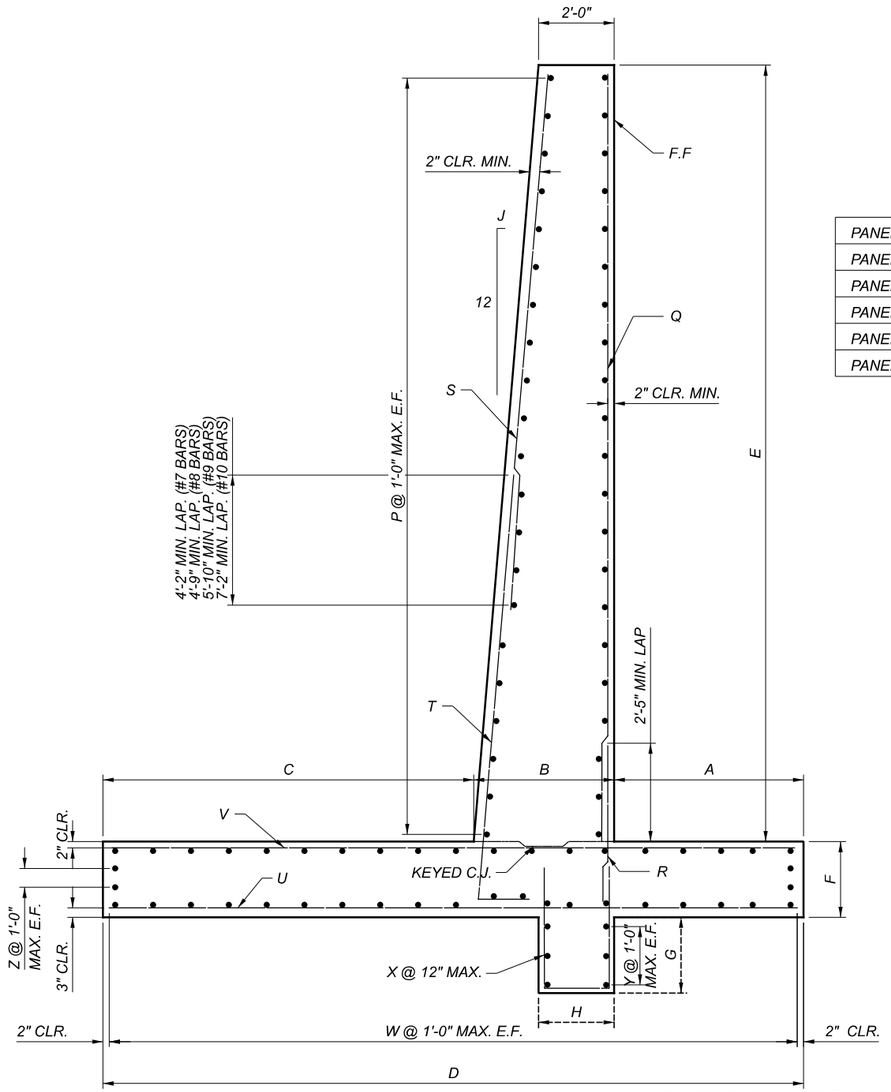
SUBSET	TOTAL
4	7

SHEET	TOTAL
365	436

WAR-63-0.83

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	DIMENSIONS										
	A	B		C		D	E		F	G	H	J
		BEGIN	END	BEGIN	END		BEGIN	END				
PANEL 1A	1'-3"	2'-0"	2'-0"	5'-0"	5'-0"	8'-3"	10'-4¼"	11'-7¼"	2'-0"	NA	1'-0"	0
PANEL 1B	1'-3"	2'-0"	2'-0"	8'-0"	8'-0"	11'-3"	13'-10¼"	14'-10⅝"	2'-0"	NA	1'-0"	0
PANEL 1C1	3'-6"	3'-4⅜"	3'-5¼"	12'-4⅝"	12'-3¾"	19'-0"	16'-4⅝"	17'-2⅜"	3'-6"	2'-0"	1'-0"	1
PANEL 1C2	3'-6"	3'-5¼"	3'-8½"	12'-3¾"	12'-0½"	19'-0"	17'-2⅜"	20'-6"	3'-6"	2'-0"	1'-0"	1
PANEL 3A	3'-6"	3'-8½"	3'-5⅝"	12'-0½"	12'-3⅜"	19'-0"	20'-6"	17'-7¼"	3'-6"	2'-0"	1'-0"	1
PANEL 3B	1'-3"	2'-0"	2'-0"	6'-0"	6'-0"	9'-3"	13'-10¼"	8'-7¾"	2'-0"	NA	1'-0"	0



CAST-IN-PLACE TYPICAL SECTION

	REINFORCING STEEL										
	P	Q	R	S	T	U	V	W	X	Y	Z
PANEL 1A	W501 OR W502	W516	W517	W701	W702	F701	F701	F501 OR F502	NA	NA	NA
PANEL 1B	W501 OR W503	W518	W519	W901	W902	F901	F901	F501 OR F503	NA	NA	NA
PANEL 1C1	W501 OR W504	W520	W521	W1001	W1002	F1001	F1001	F601 OR F602	F515	F501 OR F521	F501 OR F517
PANEL 1C2	W504	W522	W523	W1003	W1004	*	*	F602	F515	F521	F517
PANEL 3A	W501 OR W509	W524	W525	W1005	W1006	*	*	F601 OR F603	F515	F501 OR F523	F518 OR F501
PANEL 3B	W501 OR W513	W526	W527	W801	W802	F702	F702	F501 OR F504	NA	NA	NA

* F1001 OR
F1002 OR
F1003 OR
F1004

NOTES:

1. SEE SHEET 3/7 FOR ADDITIONAL WALL DETAILS.
2. SEE SHEET 2/7 FOR GENERAL NOTES.
3. SEE SHEET 2/7 FOR ESTIMATED QUANTITIES.

CAST IN PLACE TYPICAL SECTION (2 OF 3)
RETAININ WALL ON RIGHT OF SR 63
WAR-SR 63-0.83, SR 63 RECONSTRUCTION

SFN

DESIGN AGENCY
JACOBS

DESIGNER	CHECKER
MM	MAN

REVIEWER
FBW 08/22/23

PROJECT ID
112121

SUBSET	TOTAL
5	7

SHEET	TOTAL
366	436

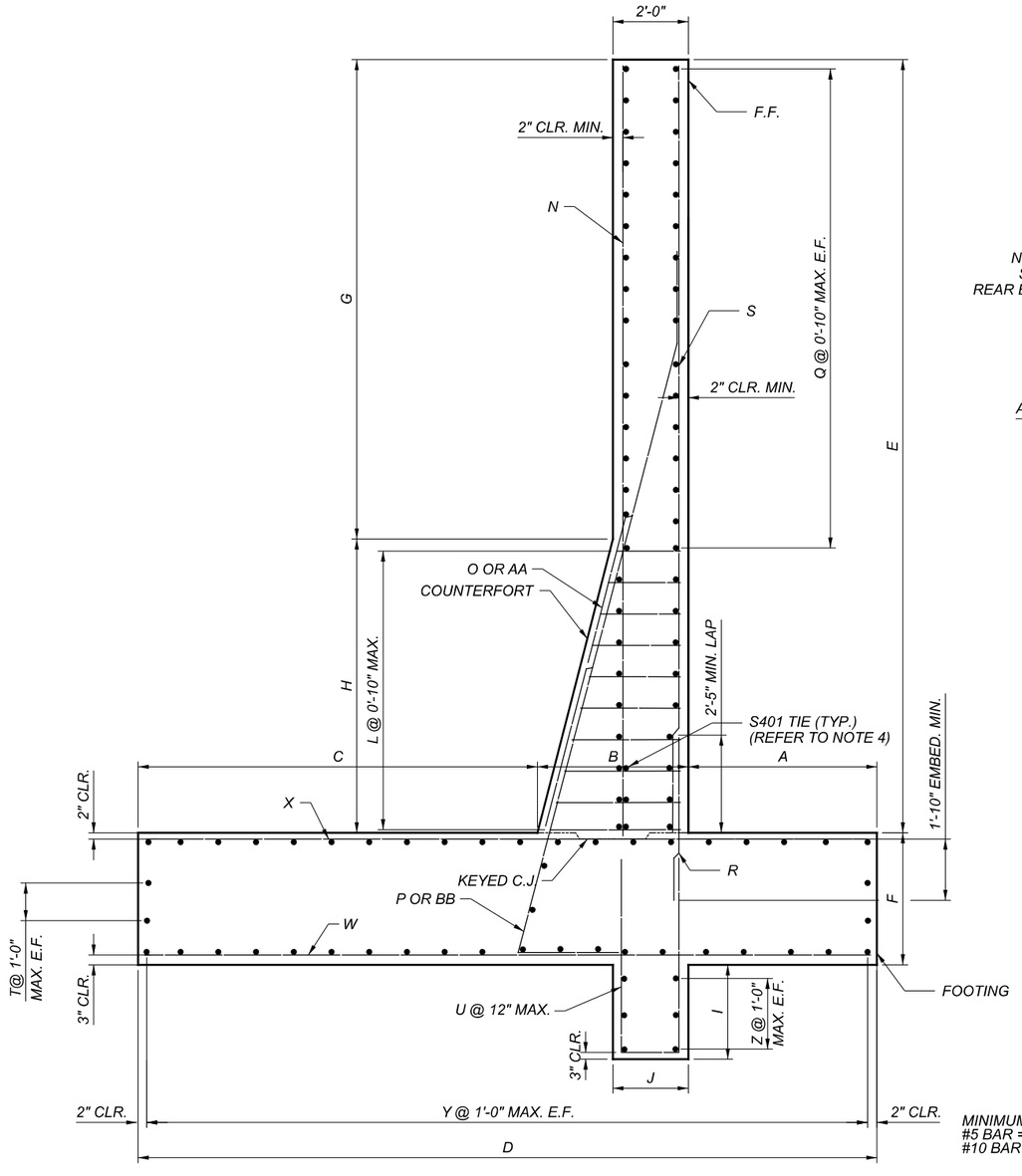
WAR-63-0.83

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	DIMENSIONS									
	A	B	C	D	E	F	G	H	I	J
PANEL 2A	3'-6"	4'-0"	11'-6"	19'-0"	20'-6"	3'-6"	12'-9½"	7'-9½"	2'-6"	2'-0"

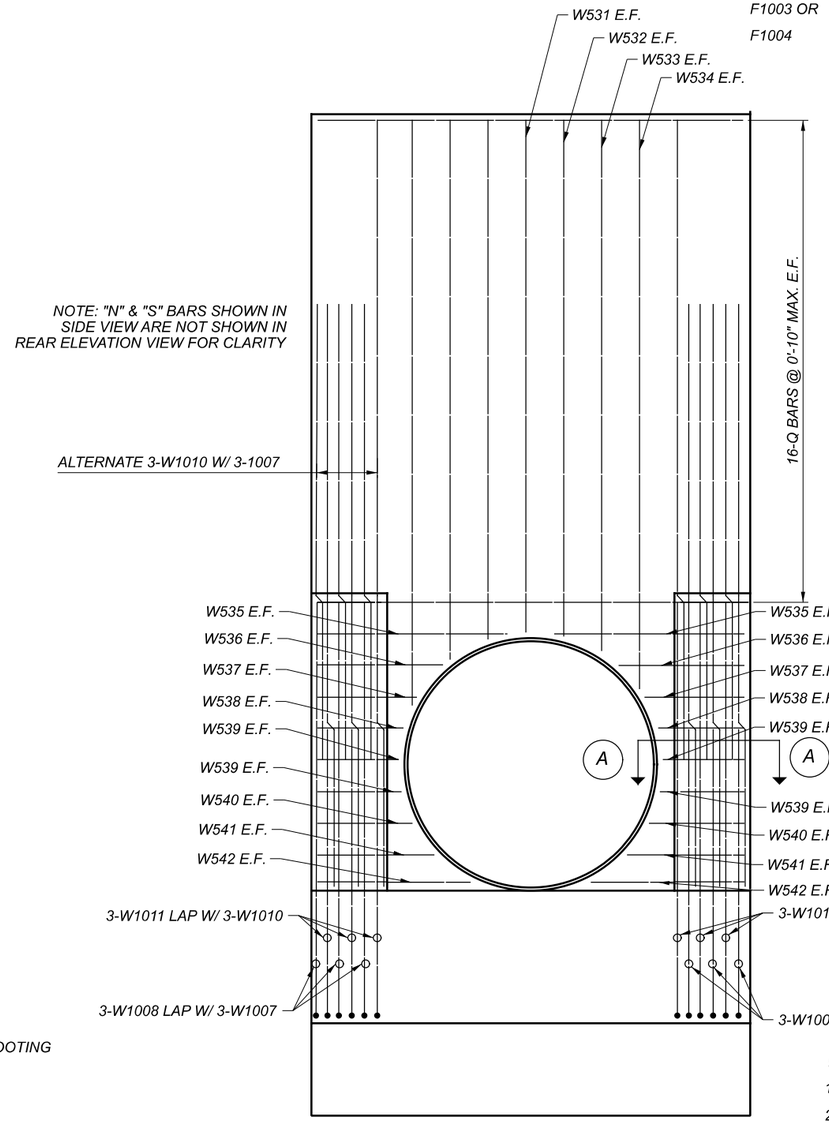
	REINFORCING STEEL														
	AA	BB	L	N	O	P	Q	R	S	T	U	W	X	Y	Z
PANEL 2A	W1007	W1008	W543	W1009	W1010	W1011	W528	W529	W530	F517 OR F518	F516	*	*	F603	F522

* F1001 OR
F1002 OR
F1003 OR
F1004



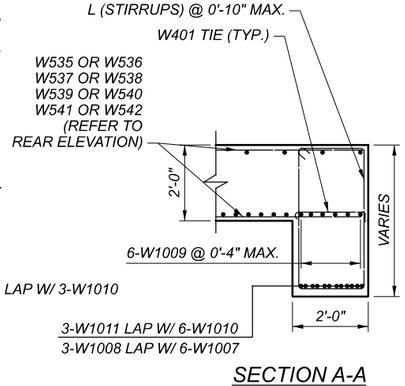
CAST-IN-PLACE TYPICAL SECTION

MINIMUM LAP LENGTH
#5 BAR = 2'-5"
#10 BAR (IN COUNTERFORT) = 8'-11"



REAR ELEVATION

REINFORCEMENT IN SHEAR KEY AND
FOOTING NOT SHOWN FOR CLARITY.



SECTION A-A

NOTES:

1. SEE SHEET 3 THRU 5 FOR ADDITIONAL WALL DETAILS.
2. SEE SHEET 2 FOR GENERAL NOTES.
3. SEE SHEET 2 FOR ESTIMATED QUANTITIES.
4. W401 TIE PROVIDED AT INTERSECTION OF W1009 & W540 TO W542 WHERE DEPTH OF COUNTERFORT IS GREATER THAN OR EQUAL TO 48". SPACING OF W401 TIES NOT TO EXCEED 24".

CAST IN PLACE TYPICAL SECTION (3 OF 3)
RETAINING WALL ON RIGHT OF SR63
WAR-SR 63-0.83, SR 63 RECONSTRUCTION

SFN

DESIGN AGENCY
JACOBS

DESIGNER	CHECKER
MM	MAN

REVIEWER
FBW 08/22/23

PROJECT ID
112121

SUBSET	TOTAL
6	7

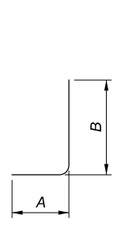
SHEET	TOTAL
367	436

WAR-63-0.83

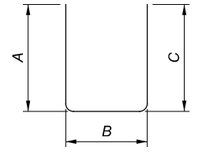
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MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS						
					A	B	C	D	E	R	INC
RETAINING WALL											
W401	6	2′-8″	11	17	1′-8″						
W501	182	30′-0″	5,695	ST							
W502	28	20′-9″	606	ST							
W503	32	12′-1″	403	ST							
W504	36	12′-10″	482	ST							
W505	2	23′-9″	50	ST							
W506	2	31′-6″	66	ST							
W507	2	9′-11″	21	19	9′-2″	9″	3″				
	2	2′-1″									
W508	SER. OF	TO	43	ST							2′-1″
	4	8′-4″									
W509	38	12′-10″	509	ST							
W510	2	20′-7″	43	ST							
W511	2	8′-2″	17	ST							
W512	2	16′-8″	35	ST							
W513	20	15′-9″	329	ST							
W514	2	15′-11″	33	ST							
	2	6′-8″									
W515	SER. OF	TO	192	ST							10′-10½″
	4	39′-3″									
W516	50	10′-3″	535	ST							
W517	50	5′-6″	287	ST							
W518	41	13′-8″	584	ST							
W519	41	5′-4″	228	ST							
W520	33	17′-3″	594	ST							
W521	33	5′-1″	175	ST							
W522	10	18′-1″	189	ST							
W523	10	7′-6″	78	ST							
W524	42	18′-6″	810	ST							
W525	42	7′-1″	310	ST							
W526	72	8′-6″	638	ST							
W527	72	9′-5″	707	ST							
W528	32	12′-5″	414	ST							
W529	12	4′-3″	53	ST							
W530	12	20′-4″	254	ST							
W531	2	13′-6″	28	ST							
W532	4	13′-8″	57	ST							
W533	4	14′-3″	59	ST							
W534	2	15′-0″	31	ST							
W535	4	5′-0″	21	ST							
W536	4	3′-4″	14	ST							
W537	4	2′-8″	11	ST							
W538	4	2′-3″	9	ST							
W539	8	2′-2″	18	ST							
W540	4	2′-6″	10	ST							
W541	4	3′-1″	13	ST							
W542	4	4′-0″	17	ST							
	1	7′-3″			1′-8″						
W543	SER. OF	TO	95	3	TO	1′-8″					0′-5″
	10	10′-11″			3′-6″						
W701	50	10′-3″	1,048	ST							
W702	50	9′-0″	920	1	1′-2″	7′-0″					
W801	72	8′-6″	1,634	ST							
W802	72	12′-9″	2,451	1	1′-4″	11′-7″					
W901	54	13′-9″	2,525	ST							
W902	54	9′-11″	1,821	1	1′-8″	8′-6″					
W1001	43	16′-3″	3,007	ST							
W1002	43	12′-7″	2,328	1	1′-10″	11′-1″					
W1003	12	17′-1″	882	ST							
W1004	12	15′-0″	775	1	1′-10″	13′-6″					
W1005	55	17′-6″	4,142	ST							
W1006	55	14′-7″	3,451	1	1′-10″	13′-1″					
W1007	6	15′-1″	389	19	12′-9″	2′-4″	8″				
W1008	6	16′-0″	413	11	3′-5″	13′-3″	2′-8″				
W1009	12	20′-5″	1,054	ST							
W1010	6	16′-7″	428	19	14′-3″	2′-4″	8″				
W1011	6	14′-7″	377	11	3′-0″	11′-10″	2′-8″				
		SUB-TOTAL	42,419								

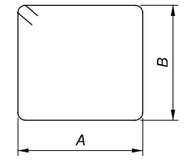
MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS						
					A	B	C	D	E	R	INC
RETAINING WALL											
F501	118	30′-0″	3,692	ST							
F502	18	20′-9″	390	ST							
F503	24	12′-3″	307	ST							
F504	20	15′-11″	332	ST							
F505	9	6′-10″	64	19	2′-5″	3′-2″	3′-2″				
F506	9	6′-2″	58	1	2′-5″	3′-10″					
F507	3	7′-11″	25	ST							
F508	12	7′-10″	98	19	2′-5″	3′-10″	3′-10″				
F509	12	6′-11″	87	1	2′-5″	4′-7″					
F510	3	10′-11″	34	ST							
F511	10	10′-10″	113	19	2′-5″	6′-0″	6′-0″				
F512	10	9′-2″	96	1	2′-5″	6′-10″	2′-8″				
F513	3	8′-11″	28	ST							
F515	81	7′-5″	542	2	3′-0″	0′-8″	3′-0″				
F516	13	8′-5″	114	2	3′-6″	1′-8″	3′-6″				
F517	4	25′-11″	108	19	14′-4″	10′-3″	5′-6″				
F518	4	29′-8″	124	19	18′-1″	10′-3″	5′-6″				
F521	6	11′-1″	69	ST							
F522	6	11′-8″	73	ST							
F523	6	12′-1″	76	ST							
F601	84	30′-0″	3,785	ST							
	2	24′-0″			10′-7″	11′-10″	6′-4″				
F602	SER. OF	TO	1,609	19	TO	TO	TO				0′-1¾″
	21	27′-0″			15′-6″	10′-2″	5′-6″				
	2	24′-1″			12′-6″	10′-3″	5′-6″				
F603	SER. OF	TO	1,790	19	TO	TO	TO				0′-5″
	21	32′-8″			19′-3″	11′-10″	6′-4″				
F701	100	7′-11″	1,618	ST							
F702	146	8′-11″	2,661	ST							
F901	110	10′-11″	4083	ST							
F1001	226	18′-8″	18,153	ST							
F1002	12	18′-1″	623	ST							
F1003	16	16′-7″	571	ST							
F1004	16	14′-1″	970	ST							
		SUB-TOTAL	42,293								
		TOTAL	84,712								



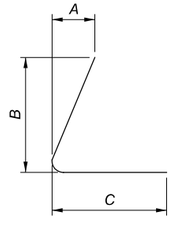
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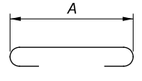
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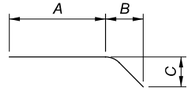
TYPE-3



TYPE-11



TYPE-17



TYPE-19

REINFORCING LIST
RETAINING W ALLON RIGHTOFSR 63
W AR-SR 63-0.83,SR 63RECONSTRUCTION

SFN

DESIGN AGENCY

JACOBS

DESIGNER	CHECKER
MM	MAN

REVIEWER
FBW 08/22/23

PROJECT ID
112121

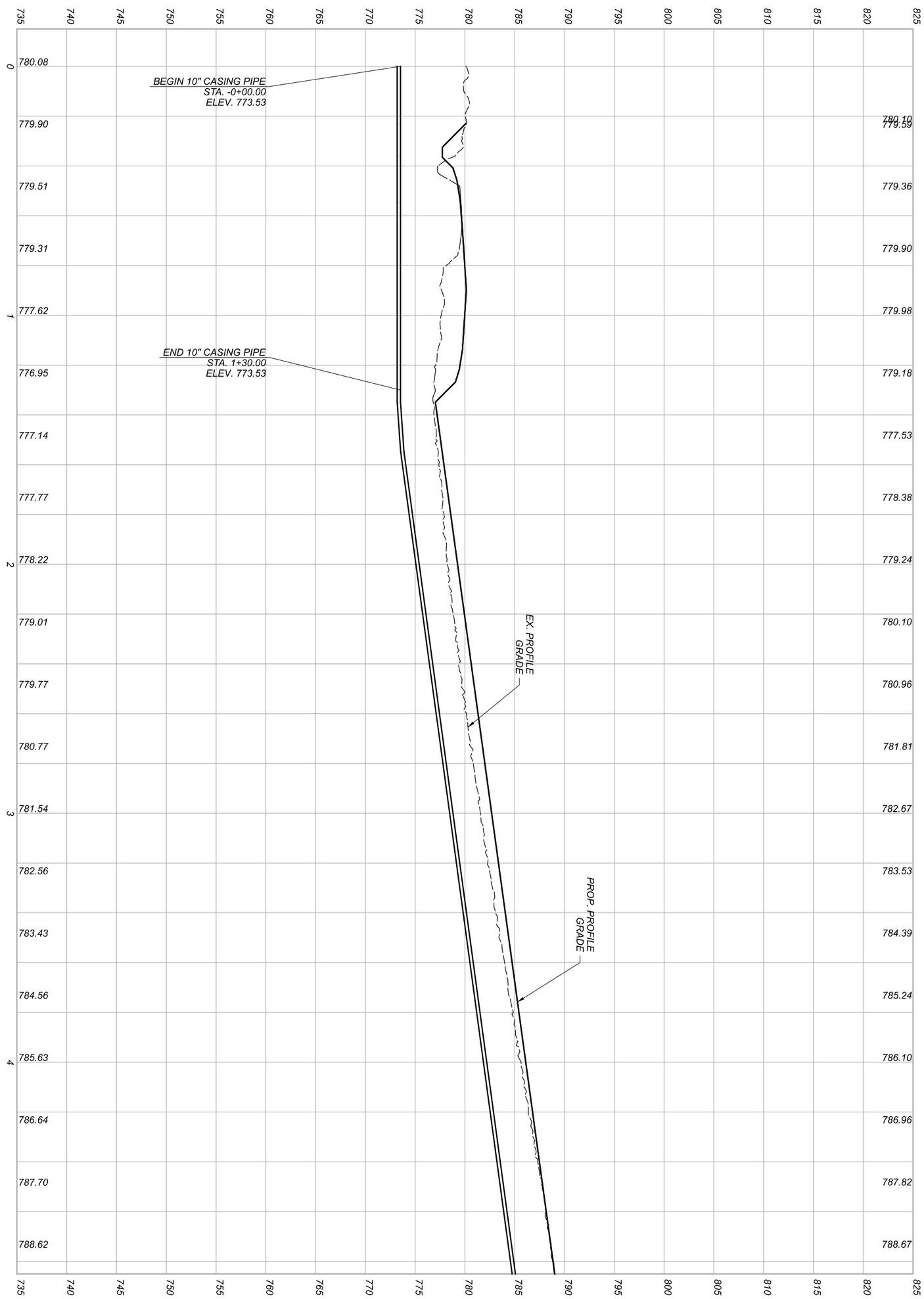
SUBSET	TOTAL
7	7

SHEET	TOTAL
368	436

WAR-63-0.83

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SHEET	TOTAL
368A	436

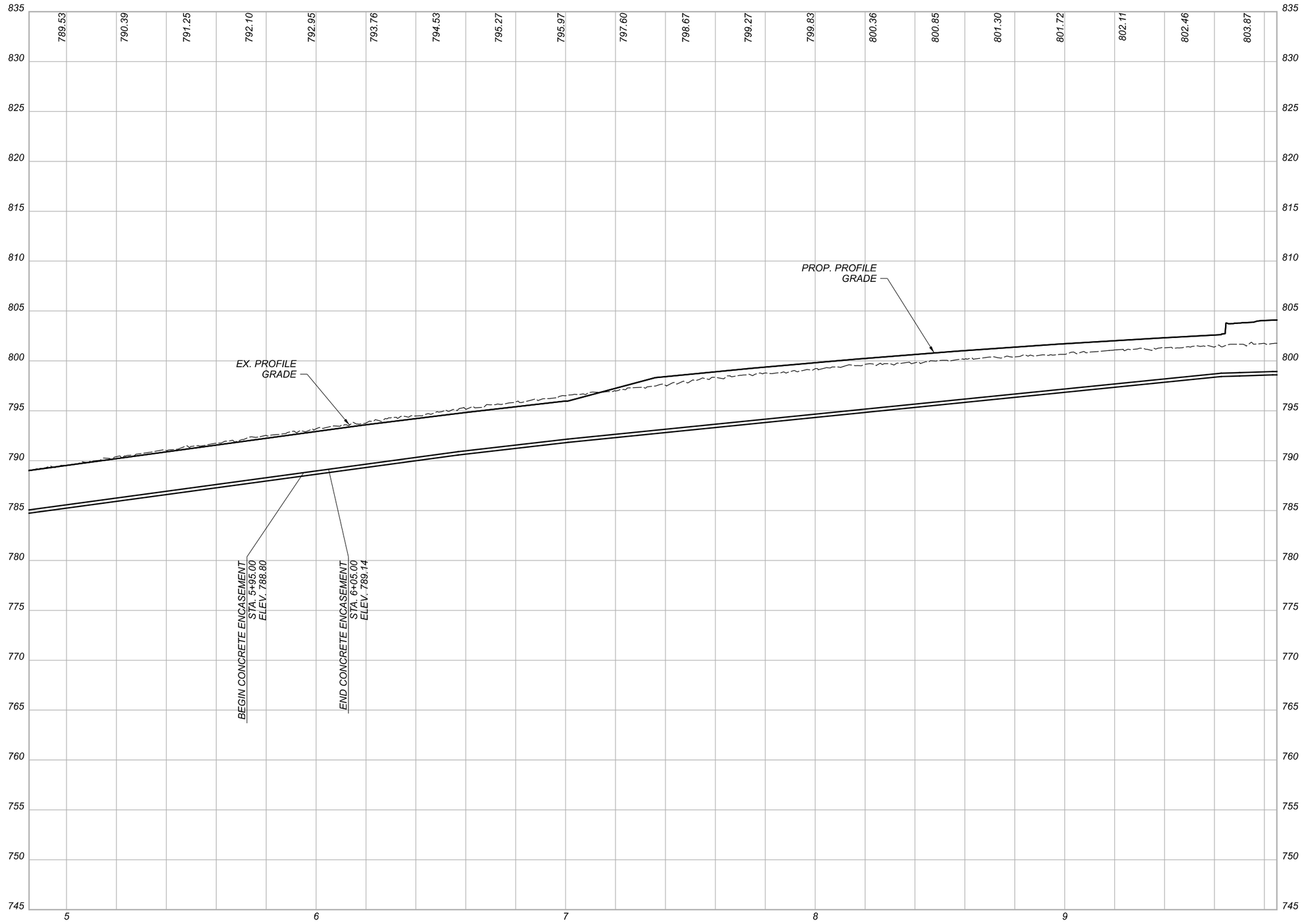
PROJECT ID: 112121

REVIEWER: RN 08/22/23

DESIGNER: MF

DESIGN AGENCY: JACOBS

WATERLINE PROFILE - SR 63
STA. 0+00.00 TO STA. 4+85.00



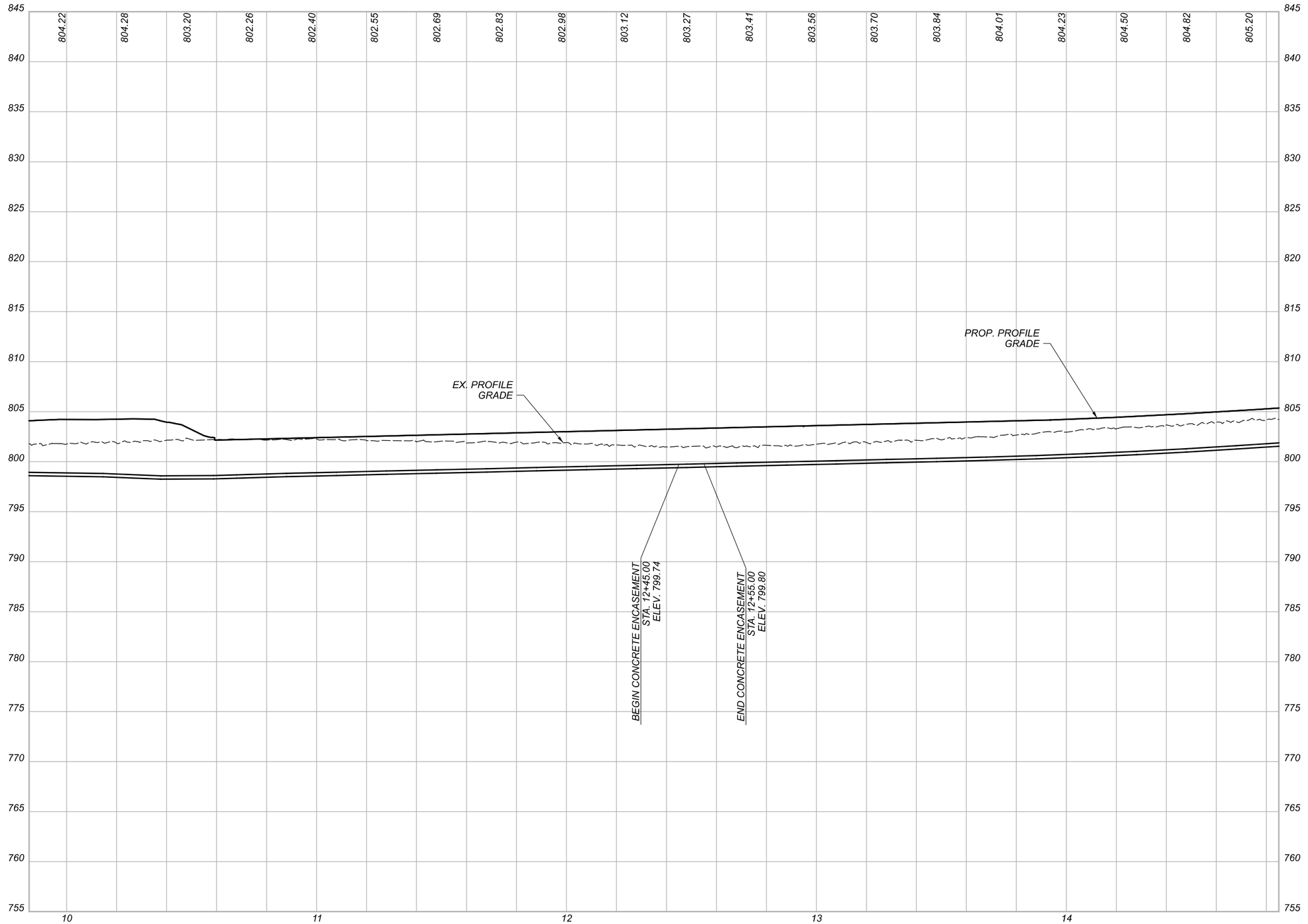
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WATERLINE PROFILE - SR 63
STA. 4+85.00 TO STA. 9+85.00

DESIGN AGENCY
JACOBS

DESIGNER	MF
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	368B
TOTAL	436



WAR-63-0.83

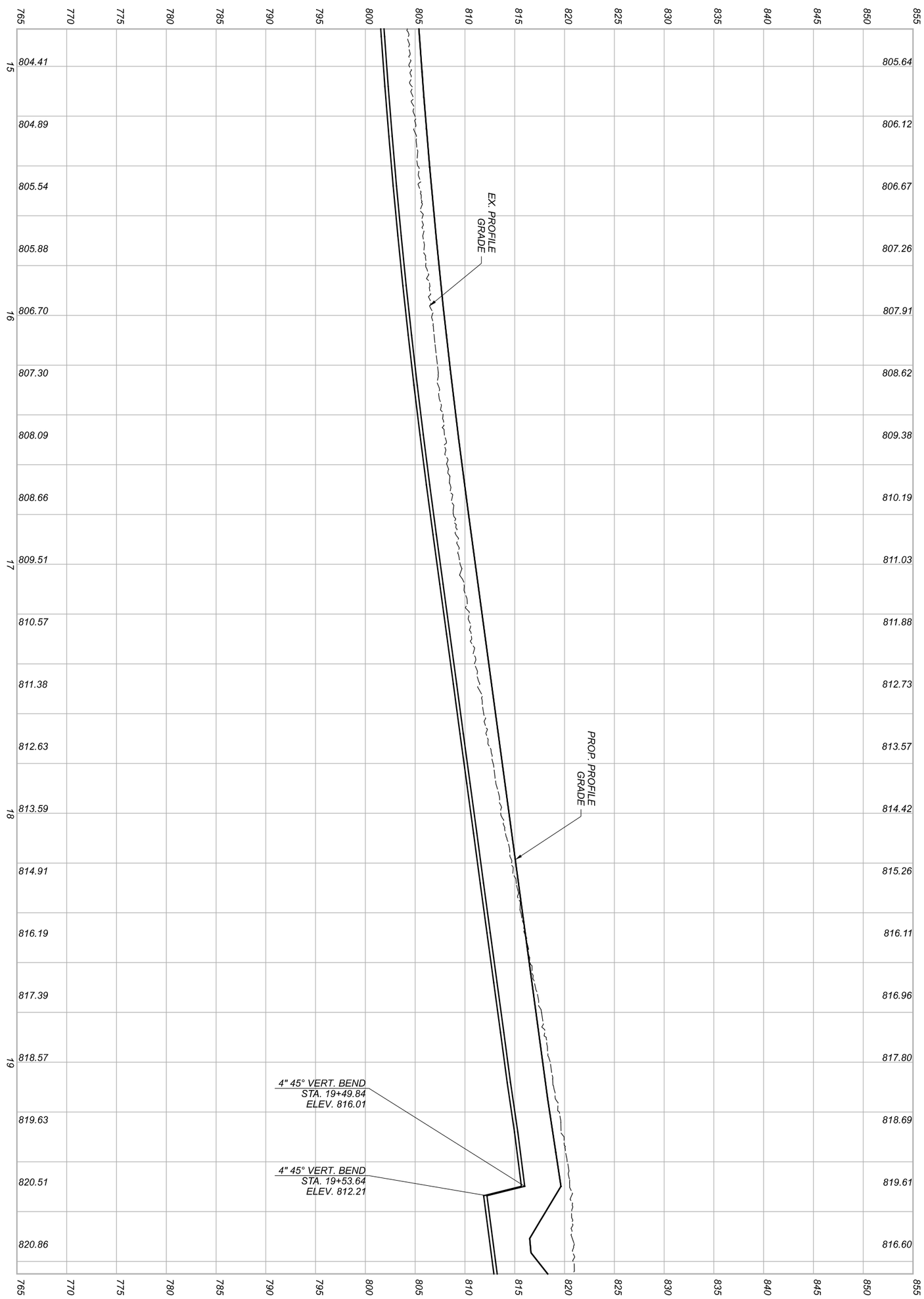
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WATERLINE PROFILE - SR 63
STA. 9+85.00 TO STA. 14+85.00

DESIGN AGENCY
JACOBS

DESIGNER	MF
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	368C
TOTAL	436

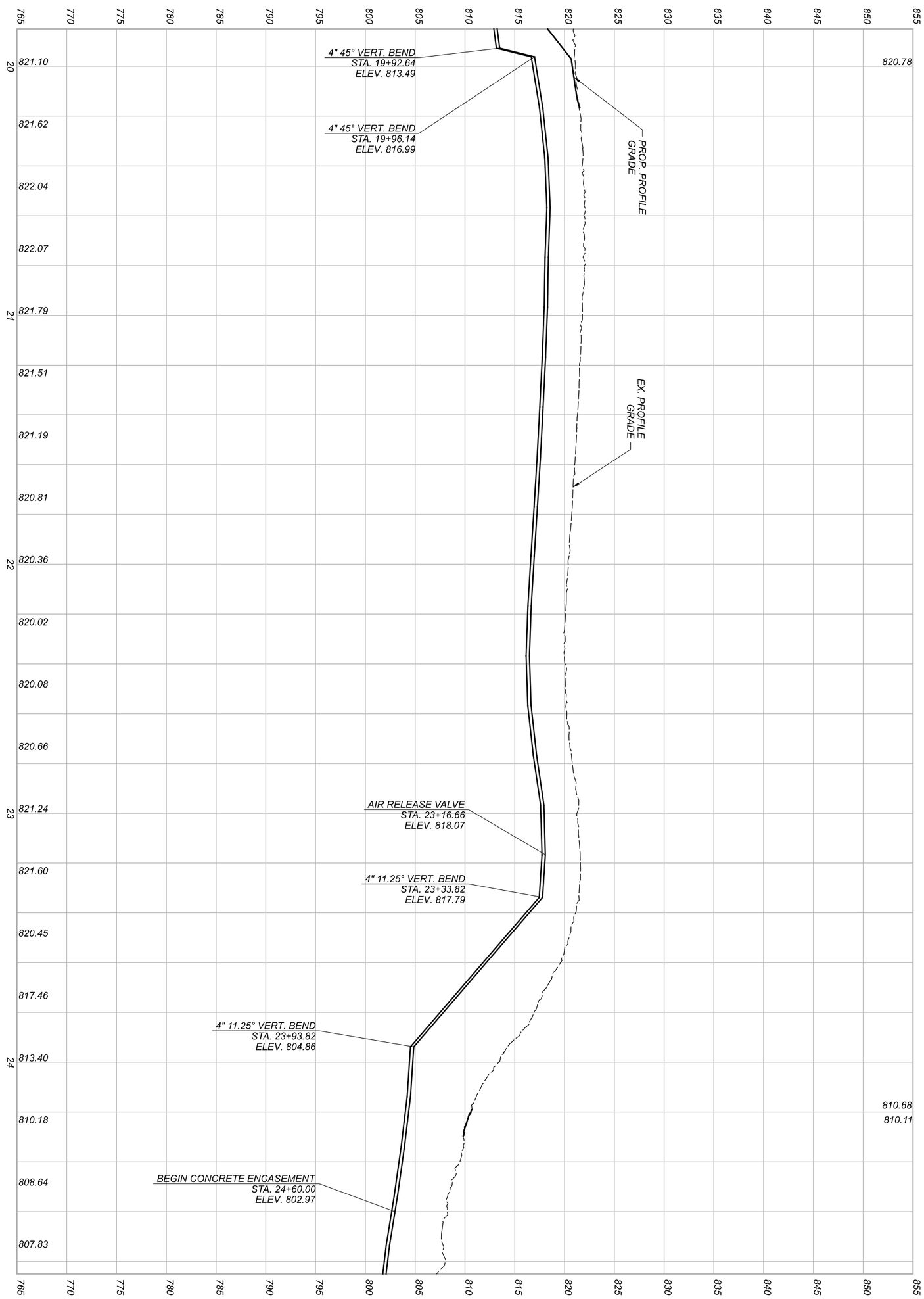
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SHEET 368D TOTAL 436	PROJECT ID 112121	REVIEWER RN 08/22/23	DESIGNER MF	DESIGN AGENCY JACOBS

WATERLINE PROFILE - SR 63
STA. 14+85.00 TO STA. 19+85.000

MODEL: WL SR63 Profile - Profile 5-1[Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:20:38 PM USER: Tahir.Sondo@jacobs.com
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SHEET	TOTAL
368E	436

PROJECT ID: 112121

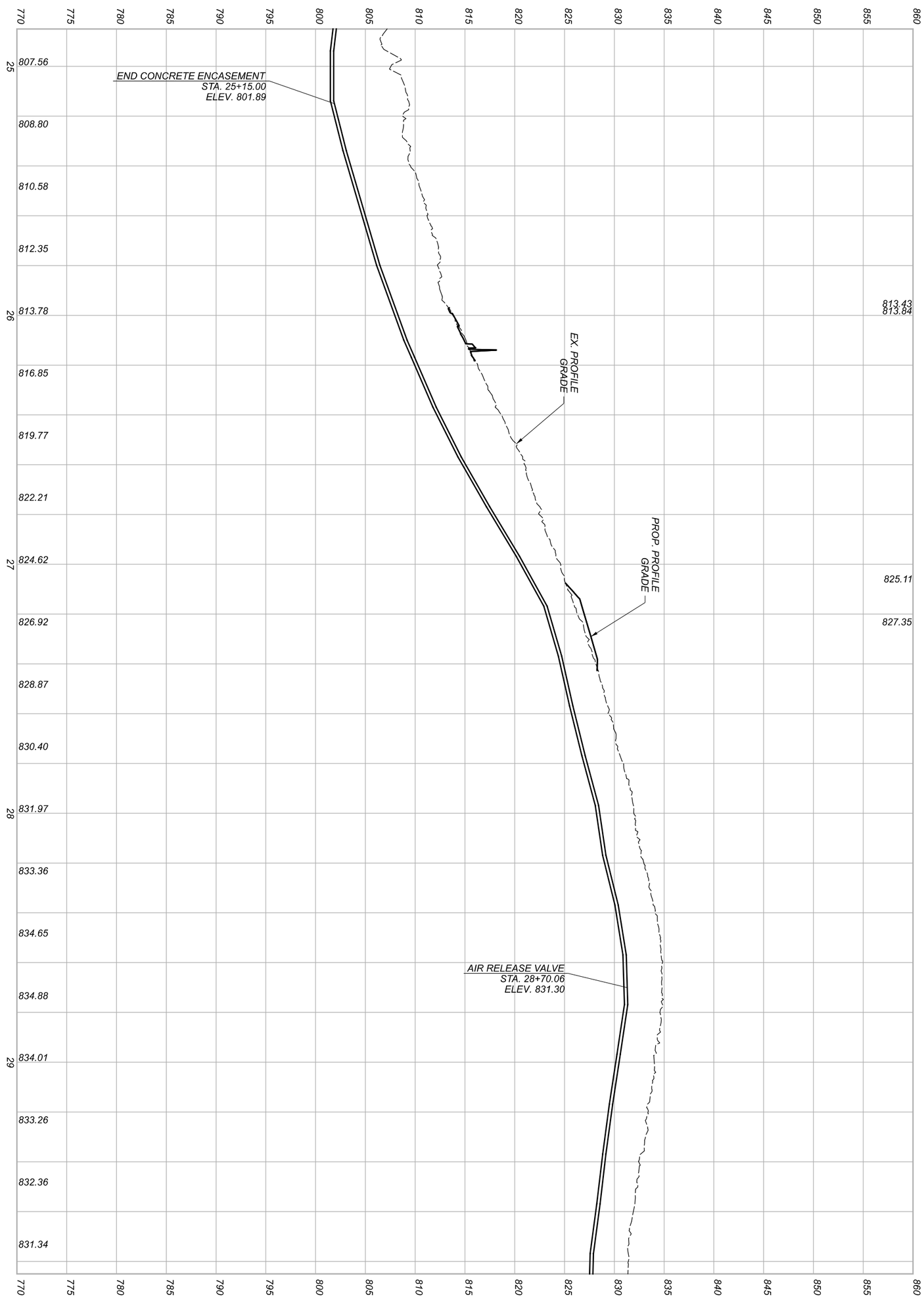
REVIEWER: RN 08/22/23

DESIGNER: MF

DESIGN AGENCY: JACOBS

WATERLINE PROFILE - SR 63
STA. 19+85.00 TO STA. 24+85.000

MODEL: WL SR63 Profile - Profile 6-1[Sheet] PAPERSIZE: 17x11(In.) DATE: 8/23/2023 TIME: 4:20:41 PM USER: Tahir.Sondo@jacobs.com
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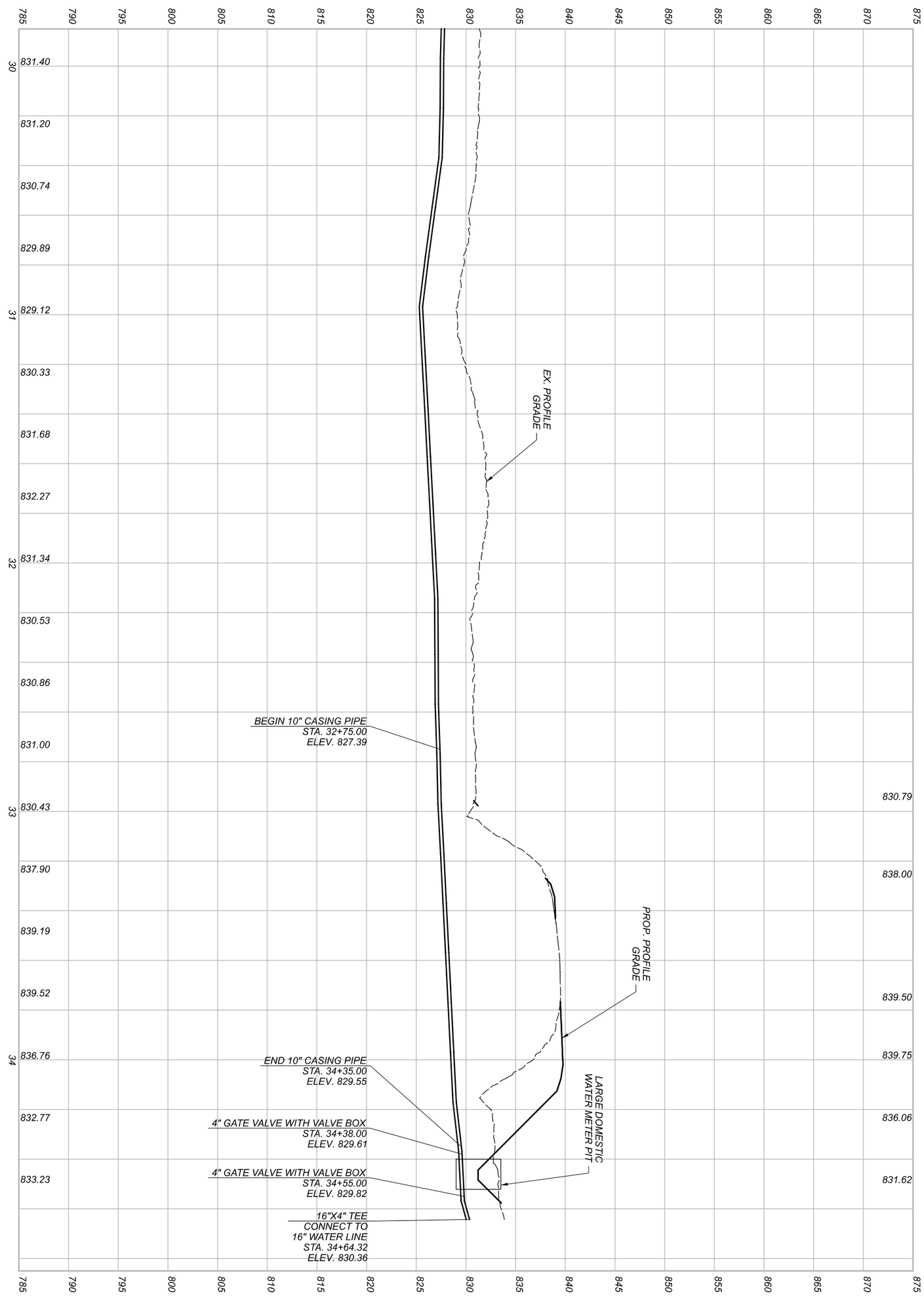
SHEET 368F / TOTAL 436	PROJECT ID 112121	REVIEWER RN 08/22/23	DESIGNER MF

JACOBS

DESIGN AGENCY

WATERLINE PROFILE - SR 63
STA. 24+85.00 TO STA. 29+85.000

MODEL: WL SR63 Profile - Profile 7-1[Sheet] PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 4:20:44 PM USER: Tahir.Sondo@jacobs.com
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SHEET	TOTAL
368G	436

PROJECT ID: 112121

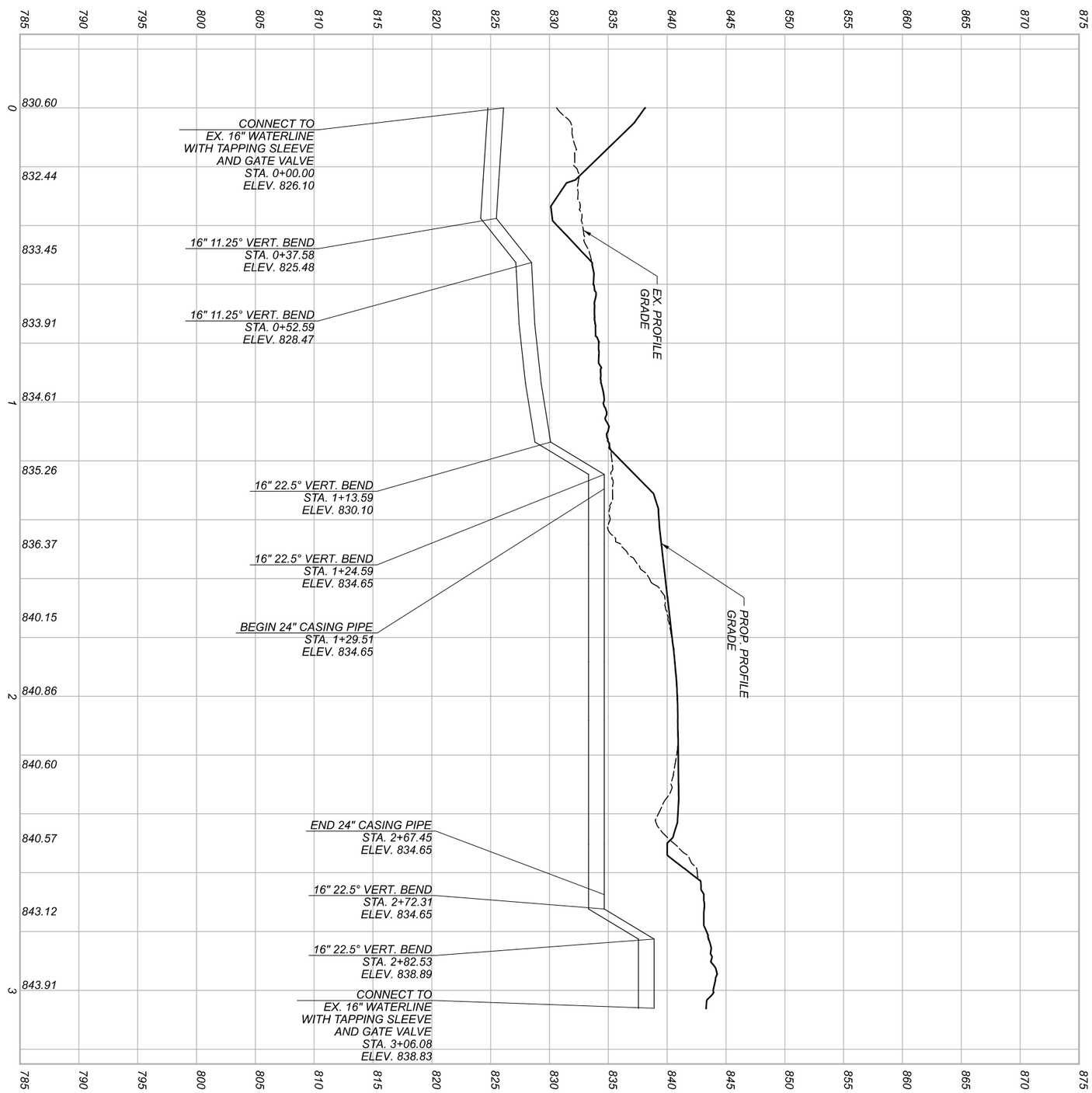
REVIEWER: RN 08/22/23

DESIGNER: MF

DESIGN AGENCY: JACOBS

WATERLINE PROFILE - SR 63
STA. 29+85.00 TO STA. 34+85.000

MODEL: utpWat - Profile (Sheet) PAPERSIZE: 17x11(In.) DATE: 8/23/2023 TIME: 4:20:47 PM USER: Tahir.Sondo@jacobs.com
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SHEET 368H / TOTAL 436	PROJECT ID 112121	RN 08/22/23	DESIGNER MF	DESIGN AGENCY JACOBS

WATERLINE PROFILE - SR 741
STA. 0+00.00 TO STA. 3+06.08

REF NO.	SHEET NO.	STATION TO STATION		630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION EACH	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL EACH	630 REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL EACH
R-1	373	104+20 RT SR 63		1		2	
R-2	373	105+20 RT SR 63		1		1	
R-3	373	109+00 RT SR 63		1		1	
R-4	373	110+61 RT SR 63		1		2	
R-5	374	112+63 RT SR 63		1		1	
R-6	374	115+70 LT SR 63					1
R-7	374	115+78 RT SR 63					1
R-8	374	116+10 RT SR 63		1		2	
R-9	374	116+96 LT SR 63		1		1	
R-10	374	117+00 RT SR 63					1
R-11	374	117+79 LT SR 63		1		1	
R-12	374	117+79 RT SR 63		1		1	
R-13	374	119+10 RT SR 63		1		1	
R-14	374	121+42 LT SR 63		1		2	
R-15	375	133+24 LT SR 63		1		1	
R-16	375	134+24 LT SR 63		1		1	
R-17	375	134+24 RT SR 63		1		1	
R-18	376	138+87 LT SR 63		1		1	
R-19	376	144+38 LT SR 63		1		1	
R-20	376	145+20 RT SR 63		1		1	
R-21	376	146+29 RT SR 63		1		2	
R-22	376	149+70 RT SR 63		1		1	
R-23	377	150+53 LT SR 63		1		1	
R-24	377	150+53 RT SR 63		1		1	
R-25	378	164+24 LT SR 63		1		1	
R-26	378	165+76 RT SR 63		1		1	
R-27	378	166+87 RT SR 63		1		1	
R-28	378	167+26 RT SR 63		1		1	
R-29	378	171+94 RT SR 63		1		1	
R-30	379	179+10 RT SR 63		2		1	
R-31	379	179+22 RT SR 63		2		2	
R-32	379	181+58 RT SR 63		2		1	
R-33	379	182+00 RT SR 63		1		1	
R-34	379	182+05 RT SR 63		2		1	
R-35	380	191+18 RT SR 63		1		1	
R-36	380	193+40 RT SR 63		1		1	
R-37	380	193+41 LT SR 63		1		1	
R-38	380	197+38 RT SR 63		1		1	
R-39	381	207+21 LT SR 63		1		1	
R-40	381	209+55 RT SR 63		2		2	
R-41	382	212+79 RT SR 63		2		1	
R-42	382	212+99 LT SR 63		1		2	
R-43	382	218+50 RT SR 63		1		1	
R-43A	382	218+50 RT SR 63		1		1	
R-44	382	219+86 RT SR 63		1		1	
R-45	382	220+57 RT SR 63		4		1	
R-46	382	220+57 RT SR 63		4		1	
R-47	382	222+72 RT SR 63		3		2	
R-48	382	224+71 RT SR 63		4		2	
R-49	383	225+66 RT SR 63		1		2	
R-50	383	229+17 RT SR 63		1		2	
R-51	383	229+53 RT SR 63		2		1	
R-52	383	229+56 LT SR 63		1		2	
R-53	383	230+32 RT SR 63		1		2	
R-54	383	230+39 LT SR 63		2		1	
R-55	383	230+40 RT SR 63		2		1	
TOTALS CARRIED TO GENERAL SUMMARY				73		67	3

REF NO.	SHEET NO.	STATION TO STATION		630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION EACH	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL EACH	630 REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL EACH
R-56	383	230+53 LT SR 63		1		2	
R-57	383	231+00 RT SR 63		2		1	
R-58	383	232+90 LT SR 63			2	2	
R-59	383	233+59 LT SR 63		1		2	
R-60	383	234+23 RT SR 63		1		1	
R-61	383	235+52 LT SR 63		3		2	
R-61A	384	237+51 LT SR 63		2		1	
R-62	384	240+03 RT SR 63		1		2	
R-62A	384	237+51 LT SR 63		1		1	
R-63	384	240+27 RT SR 63		1		1	
R-64	386	906+88 RT SR 741		4		2	
R-65	383	909+00 RT SR 741		1		2	
R-66	383	914+80 RT SR 741		2		1	
R-67	383	916+52 LT SR 741		1		2	
R-68	387	917+24 LT SR 741		1		2	
R-68A	387	919+01 LT SR 741		4		2	
R-69	387	922+42 RT SR 741		1		1	
R-70	387	924+20 RT SR 741		1		1	

REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 GROUND MOUNTED SUPPORT, NO. 3 POST		630 GROUND MOUNTED SUPPORT, NO. 4 POST	630 GROUND MOUNTED SUPPORT, NO. 6 POST		630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7		630 SIGN POST REFLECTOR, RED	630 SIGN POST REFLECTOR, YELLOW	630 BREAKAWAY STRUCTURAL BEAM CONNECTION	630 SIGN, FLAT SHEET	630 SIGN, GROUND MOUNTED EXTRUSHEET	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION					
							FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	SF	SF	EACH					
S-1	373	SR 63	103+50.00	RT	R3-H8cg	48" X 30"	13/13	26									10.00							
S-1A	373	SR 63	108+00.00	RT	I-H15	36" X 24"	11.5	11.5									6.00							
S-2	373	SR 63	109+50.00	RT	R3-H8dd	54" X 30"	13.7/13.7	27.4									11.25							
S-3	374	SR 63	116+50.00	RT	W1-7	48" X 24"	13.7/13.7	27.4							2		8.00							
S-3A	374	SR 63	117+79.00	RT	D10-H8	12" X 12"	10.5	10.5									1.00							
S-4	374	SR 63	120+50.00	RT	R2-1	30" X 36"	15.5	15.5									7.50							
S-5	374	SR 63	122+00.00	LT	R3-H8bk	36" X 30"	13.3	13.3									7.50							
S-6	375	SR 63	133+00.00	RT	R3-H8ca	48" X 30"	14.4/14.5	28.9									10.00							
S-7	376	SR 63	139+50.00	RT	R3-H8dg	60" X 30"	14.1/14.5	28.6									12.50							
S-8	377	SR 63	152+00.00	LT	R3-H8ds	66" X 30"	13.9/14.8	28.7									13.75							
S-8A	378	SR 63	166+87.00	RT	D10-H8	12" X 12"	10.5	10.5									1.00							
S-9	379	SR 63	178+00.00	RT	R3-H8cg	48" X 30"	14.3/15.0	29.3									10.00							
S-9A	379	SR 63	180+00.00	RT	D1-H1a	48" X 24"	13.4/13.6	27.0									8.00							
S-10	379	SR 63	181+50.00	LT	R1-1	36" X 36"	14.3	14.3						1			9.00							
S-11	379	SR 63	182+00.00	RT	R1-1	36" X 36"	13.4	13.4						1			9.00							
S-12	379	SR 63	186+00.00	LT	R3-H8ca	48" X 30"	14.3/15.0	29.3									10.00							
S-12A	380	SR 63	203+50.00	LT	W8-H6a	36" X 36"	16.2	16.2							1		9.00							
S-12B	380	SR 63	192+00.00	RT	W8-H6a	36" X 36"	16.3	16.3							1		9.00							
S-13		NOT USED																						
S-14	381	SR 63	206+34.00	LT	R1-1	36" X 36"	14.1	14.1						1			9.00							
S-15	381	SR 63	207+00.00	RT	R1-1	36" X 36"	16.0	16.0						1			9.00							
S-16	381	SR 63	209+50.00	RT	D9-H51	72" X 12"	14.0/15.0	29.0									6.00							
					D9-H50	72" X 18"											9.00							
S-17		NOT USED																						
S-18	382	SR 63	213+00.00	LT	D2-H2	72" X 24"	13.9/14.5	28.4									12.00							
S-19	382	SR 63	213+00.00	RT	M2-1	21" X 15"	14.7	14.7									2.19							
					M1-5-3	30" X 24"											5.00							
S-20	382	SR 63	216+00.00	RT	W 3-3	36" X 36"	15.8	15.8							1		9.00							
S-21	382	SR 63	219+00.00	RT	M4-5	24" X 12"			17.2								2.00							
					M3-3	24" X 12"											2.00							
					M1-1	24" X 24"											4.00							
					M5-1	21" X 15"											2.19							
S-22	382	SR 63	219+00.00	RT	M4-5	24" X 12"			18.7								2.00							
					M3-1	24" X 12"											2.00							
					M1-1	24" X 24"											4.00							
					M6-3	21" X 15"											2.19							
S-22A	382	SR 63	219+86.00	RT	D10-H8	12" X 12"	10.9	10.9									1.00							
S-23	382	SR 63	222+50.00	RT	R3-H8eb	66" X 30"	15.7/17.4	33.1									13.75							
S-24	382	SR 63	224+50.00	RT	D1-H1a	72" X 12"	14.1/15.1	29.2									6.00							
					D1-H1a	72" X 12"											6.00							
					D1-H1a	72" X 12"											6.00							
S-25	383	SR 63	226+00.00	RT	I-5	24" X 24"	15.0/12.5	27.5									4.00							
					M6-1	21" X 15"											2.19							
					D1-H1a	72" X 12"											6.00							
					D1-H1a	72" X 12"											6.00							
S-25A	383	SR 63	231+50.00	RT	M1-5-3	30" X 24"	14.7	14.7									5.00							
					M6-4	21" X 15"											2.19							
S-26	383	SR 63	233+50.00	LT	D1-H1a	72" X 24"	15.0/13.7	28.7																
					D1-H1a	72" X 12"																		
S-27	383	SR 63	234+00.00	RT	M3-2	24" X 12"	14.9	14.9									2.00							
					M1-5	24" X 24"											4.00							
S-28	383	SR 63	236+00.00	LT	D1-H1a	72" X 12"	15.7/14.3	30.0									6.00							
					D1-H1a	72" X 12"											6.00							
					D1-H1a	72" X 12"											6.00							
S-29	383	SR 63	236+40.00	RT	W4-2R	36" X 36"	16.7	16.7							1		9.00							
S-29A	384	SR 63	238+00.00	RT	R2-1	30" X 36"	16.7	16.7									7.50							
S-30	384	SR 63	237+50.00	LT	R3-H8ds	66" X 30"	13.5/13.4	26.9									13.75							
TOTALS CARRIED TO SHEET NO. 370A								742	36					4	6		347							

MODEL: Sheet PAPERSIZE: 17x11(In.) DATE: 8/23/2023 TIME: 04:54 PM USER: rnunna
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Traffic\Sheets\112121_TS002.dgn

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 370 | TOTAL 436

REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 GROUND MOUNTED SUPPORT, NO. 3 POST		630 GROUND MOUNTED SUPPORT, NO. 4 POST	630 GROUND MOUNTED SUPPORT, NO. 6 POST		630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7		630 SIGN POST REFLECTOR, RED	630 SIGN POST REFLECTOR, YELLOW	630 BREAKAWAY STRUCTURAL BEAM CONNECTION	630 SIGN, FLAT SHEET	630 SIGN, GROUND MOUNTED EXTRUSHEET	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION					
							FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	SF	SF	EACH					
S-31	384	SR 63	239+00.00	LT	M2-1	21" X 15"	14.2	14.2									2.19							
					M1-5-3	30" X 24"											5.00							
S-32	384	SR 63	240+50.00	RT	D2-H2	72" X 24"	13.9/14.9	28.8									12.00							
S-33	384	SR 63	241+00.00	LT	W3-3	36" X 36"	15.0	15.0							1		9.00							
S-34	386	SR 741	906+00.00	RT	R3-H8b	48" X 30"	15.5/16.8	32.3									10.00							
S-35	386	SR 741	907+50.00	RT	D1-H1a	72" X 12"				18.2/20.2	38.4						6.00							
					D1-H1a	72" X 12"											6.00							
					D1-H1a	72" X 12"											6.00							
					D1-H1a	72" X 24"											12.00							
S-35A	383	SR 741	911+50.00	LT	M1-5	24" X 24"	14.3	14.3									4.00							
					M6-4	21" X 15"											2.19							
S-35B	383	SR 741	913+50.00	RT	M1-5	24" X 24"	14.7	14.7									4.00							
					M6-4	21" X 15"											2.19							
S-36	383	SR 741	916+50.00	RT	M3-1	24" X 12"	14.6	14.6									2.00							
					M1-5	30" X 24"											5.00							
S-36A	383	SR 741	914+40.00	RT	W4-2R	36" X 36"	15.4	15.4							1		9.00							
S-37	387	SR 741	918+50.00	LT	R3-H8b	48" X 30"	13.2/13.1	26.3									10.00							
S-38	387	SR 741	919+50.00	LT	D1-H1a	72" X 12"						17.5/16.4	33.9			2		6	2					
					D1-H1a	72" X 12"												6						
					D1-H1a	72" X 12"												6						
					D1-H1a	72" X 24"												12						
S-39	387	SR 741	923+00.00	RT	W3-5	36" X 36"	15.4	15.4									9.00							
TOTALS THIS SHEET								191			39		34		2	2	116	30	2					
TOTALS FROM SHEET NO. 370								742	36					4	6		347							
TOTALS CARRIED TO GENERAL SUMMARY								933	36		39		34	4	8	2	463	30	2					

SIGNING - PROPOSED SUBSUMMARY
SR 63 AND SR 741

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 370A | TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 11:55:20 PM USER: rnunna
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121\400-Engineering\Traffic\Sheets\112121_TS002A.dgn

REF NO.	SHEET NO.	STATION TO STATION						644 LANE LINE 6", WHITE MILE	644 EDGE LINE 6", WHITE MILE	644 CENTER LINE, DASHED & SOLID DOUBLE MILE	644 DOTTED LINE 6" FT	644 CHANNELIZING LINE 12" FT	644 STOP LINE 24" FT	644 LANE ARROW EACH	644 LANE REDUCTION ARROW EACH	644 TRANSVERSE/DIAGONAL LINE FT	644 CHEVRON MARKINGS, WHITE FT	644 RAILROAD SYMBOL MARKING EACH	644 ISLAND MARKING SF					621 RPM, 2-WAY, WHITE/RED @ 80' SPACING EACH	621 RPM, 1-WAY, WHITE @ 40' SPACING EACH	621 RPM, 1-WAY, WHITE @ 80' SPACING EACH	621 RPM, 2-WAY, YELLOW/YELLOW @ 80' SPACING EACH	621 RPM, 2-WAY, WHITE/RED @ 40' SPACING EACH
RR-100	373	102+66.00	RT SR 63															2										
SL-120A	373	100+14.00	LT SR 63		106+03.00	LT SR 63							50															
CM-120A	373	100+14.00	LT SR 63		103+50.00	LT SR 63											90											
SL-100	373	106+03.00	RT SR 63										50															
SL-120	373	107+22.00	LT SR 63										35															
RR-120	373	110+10.60	LT SR 63															2										
TLY-100	373-374	109+30.00	SR 63		114+30.00	SR 63										150												
SL-101	374	115+72.00	SR 63										12															
SL-121A	374	115+98.00	SR 63										26															
SL-101A	374	115+85.00	SR 63										36															
SL-121	374	115+85.00	SR 63										24															
IM-100	374	116+90.00	SR 63																226									
TLY-101	374-375	117+02.00	SR 63		125+00.00	SR 63										565												
LA-100	375	125+96.00	SR 63											2														
LA-101	375	129+21.00	SR 63											2														
LA-102	375	132+46.00	SR 63											2														
IM-101	375	136+05.00	SR 63																82									
TLY-102	375-376	136+05.00	SR 63		141+35.00	SR 63										335												
SL-102A	375	146+12.00	SR 63										24															
SL-121	376	146+77.00	LT SR 63										27															
CH-112	376	146+77.00	LT SR 63									117		1														
CL-103A	376	146+77.00	LT SR 63							0.02																		
SL-122	376	147+34.00	SR 63										53															
CM-100	376	147+34.00	SR 63		149+46.00	SR 63											85											
ELW-122	376	147+52.00	LT SR 63		147+99.00	LT SR 63			0.03																			
SL-102	376	146+12.00	SR 63										30															
TYL-103	376-377	148+50.00	SR 63		165+10.00	SR 63										635												
CL-103B	376	146+67.00	RT SR 63							0.01																		
CH-111	376	146+78.00	RT SR 63									84		1														
SL-103	376	146+67.00	RT SR 63										11															
SL-104	376	146+77.00	RT SR 63										20															
ELW-101	376	146+16.00	RT SR 63		146+56.00	RT SR 63			0.02																			
ELW-102	376	146+89.00	RT SR 63		147+34.00	RT SR 63			0.02																			
SL-121A	376	146+77.00	LT SR 63	TO									11															
ELW-121	376	146+05.00	LT SR 63		146+55.00	LT SR 63			0.03																			
LL-121	376	146+90.00	LT SR 63					0.02																				
SL-122A	376	147+34.00	SR 63										24															
TLY-104	378	170+50.00	SR 63		178+60.00	SR 63										215												
ELW-123	379	181+35.00	LT SR 63		181+70.00	LT SR 63			0.01																			
SL-122B	379	181+70.00	LT SR 63										14															
ELW-124	379	181+94.00	LT SR 63		182+29.00	LT SR 63			0.01																			
LA-103	379	186+21.00	RT SR 63											2														
ELW-103	379	181+70.00	RT SR 63						0.02																			
ELW-104	379	181+94.00	RT SR 63		182+29.00	RT SR 63			0.02																			
SL-104A	379	181+94.00	SR 63		206+20.00	SR 63							12															
LA-104	380	194+34.00	RT SR 63											2														
TOTALS CARRIED TO SHEET NO. 372								0.02	0.18	0.03		201	460	12		1900	175	4	308									

PAVEMENT MARKING SUBSUMMARY
SR 63 AND SR 741

DESIGN AGENCY
JACOBS

DESIGNER TES
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 371 TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 11:51:48 PM USER: rnunna
pw:\\Project:WiseAMER.jacobs.com:D$EN003\Documents\C6A18200 - SR 63 Reconstruction\Design\11212\400-Engineering\Traffic\Sheets\11212I_TS003.dgn

REF NO.	SHEET NO.	STATION TO STATION					644 LANE LINE 6", WHITE MILE	644 EDGE LINE 6", WHITE MILE	644 CENTER LINE, DASHED & SOLID DOUBLE MILE	644 DOTTED LINE 6" FT	644 CHANNELIZING LINE 12" FT	644 STOP LINE 24" FT	644 LANE ARROW EACH	644 LANE REDUCTION ARROW EACH	644 TRANSVERSE/DIAGONAL LINE FT	644 CHEVRON MARKINGS, WHITE FT	644 RAILROAD SYMBOL MARKING EACH	644 ISLAND MARKING SF					621 RPM, 2-WAY, WHITE/RED @ 80' SPACING EACH	621 RPM, 1-WAY, WHITE @ 40' SPACING EACH	621 RPM, 1-WAY, WHITE @ 80' SPACING EACH	621 RPM, 2-WAY, YELLOW/YELLOW @ 80' SPACING EACH	621 RPM, 2-WAY, WHITE/RED @ 40' SPACING EACH
LA-105	381	202+46.00	RT SR 63										2														
ELW-125	381	206+17.00	LT SR 63		206+53.00	LT SR 63		0.01																			
SL-122C	381	206+53.00										13															
ELW-126	381	206+77.00	LT SR 63		207+11.00	LT SR 63		0.01																			
ELW-105	381	206+15.00	RT SR 63		206+50.00	RT SR 63		0.01																			
SL-104B	381	206+74.00	RT SR 63									14															
ELW-106	381	206+74.00	RT SR 63		207+09.00	RT SR 63		0.01																			
TLY-105	381-383	209+50.00	SR 63		227+00.00	SR 63									840												
SL-123	383	230+92.00	SR 63									56															
CM-101	383	230+74.00	RT SR 63		234+00.00	RT SR 63										120											
SL-105A	383	229+37.00	SR 63									24															
SL-105	383	229+47.00	SR 63									55															
SL-123A	383	230+74.00	SR 63									24															
TLY-106	383-384	233+04.00	RT SR 63		251+00.00	RT SR 63									445												
RA-100	384	238+87.50	RT SR 63											1													
RA-101	384	245+29.00	RT SR 63											1													
ELW-220	386-387	901+94.00	LT SR 741		928+00.00	LT SR 741		0.50																	11	5	
CL-201	386	901+94.00	SR 741		906+00.00	SR 741			0.08																		6
TLY-200	386	901+94.00	SR 741		906+00.00	SR 741									120												
ELW-200	386-387	901+93.00	RT SR 741		927+16.00	RT SR 741		0.48																	11	5	
CL-200	386	901+94.00	SR 741		928+00.00	SR 741			0.50																		34
CH-200	386,383	906+00.00	RT SR 741		911+79.00	RT SR 741					579		9														16
CH-201	386, 383	906+00.00	RT SR 741		911+64.00	RT SR 741					564		9														16
SL-200	383	911+79.00	SR 741									40															
SL-200A	383	911+64.00	SR 741									12															
SL-201	383	913+09.00	SR 741									38															
SL-201A	383	913+37.00	SR 741									12															
LL-200	383, 387	913+50.00	RT SR 741		918+50.00	RT SR 741	0.10																	8			
CH-202	383, 387	913+09.00	SR 741	TO	918+50.00	SR 741					541		7														16
CH-203	383, 387	913+09.00	LT SR 741		918+50.00	LT SR 741					541		7														16
RA-200	383	915+55.00	SR 741											1													
RA-201	387	917+50.00	SR 741											1													
CL-202	387	918+50.00	SR 741		926+00.00	SR 741			0.14																		11
TLY-201	387	918+50.00	SR 741		926+00.00	SR 741									215												
CL-203	387	926+00.00	SR 741		928+00.00	SR 741			0.04																		4
DL-200	387	918+50.00	RT SR 741		925+10.00	RT SR 741				660																	
50	387	926+00.00	SR 741		928+00.00	SR 741									50												
TOTALS THIS SHEET							0.10	1.03	0.76	660	2225	288	34	4	1670	120							8	22	10	55	64
TOTALS FROM SHEET NO. 371							0.02	0.18	0.03		201	460	12		1900	175	4	308									
TOTALS CARRIED TO GENERAL SUMMARY							0.12	1.21	0.79	660	2426	748	46	4	3570	295	4	308					8	22	10	55	64

PAVEMENT MARKING SUBSUMMARY
SR 63 AND SR 741

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 372 | TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 1:16:17 PM USER: rnunna
pw:\\Project:WiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\1212\1400-Engineering\Traffic\Sheets\1212I_TS004.dgn

REF NO.	SHEET NO.	STATION TO STATION						807 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE 6", WHITE	807 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE 6", WHITE	807 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CENTER LINE, DASHED & SOLID DOUBLE	807 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE 6"	807 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE 12"		644 LANE ARROW		850 GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	850 GROOVING FOR 4" RECESSED PAVEMENT MARKING, (ASPHALT)	850 GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	850 GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)					621 RPM, 2-WAY, WHITE/RED @ 80' SPACING	621 RPM, 1-WAY, WHITE @ 40' SPACING	621 RPM, 1-WAY, WHITE @ 80' SPACING	621 RPM, 2-WAY, YELLOW/YELLOW @ 80' SPACING	621 RPM, 2-WAY, WHITE/RED @ 40' SPACING
								MILE	MILE	MILE	FT	FT		EACH		MILE	MILE	FT	FT					EACH	EACH	EACH	EACH	EACH
ELW-100	373-385	100+36.00	RT SR 63	TO	254+30.00	RT SR 63		2.92								2.92												
CL-100	373-385	100+14.00	RT SR 63		254+30.00	RT SR 63			2.92								5.84											
LL-100	373-384	100+06.00	RT SR 63		246+29.00	RT SR 63	2.77									2.77												
ELW-120	373-385	100+14.00	LT SR 63		254+30.00	LT SR 63		2.92								2.92									22	10		
LL-120	373-383	100+14.00	LT SR 63		237+00.00	LT SR 63	2.59									2.59												
CH-120A	373	100+14.00	LT SR 63		103+50.00	LT SR 63						336								336								10
CH-100A	373	100+14.00	SR 63		103+50.00	SR 63						336		6						336								10
CH-100	373	104+00.00	RT SR 63		106+03.00	RT SR 63						203		4						203								6
CH-120	373	107+22.00	SR 63		109+50.00	SR 63						228		4						228								7
CL-101	373-374	108+80.00	SR 63		114+30.00	SR 63			0.10								0.20										8	
CH-101	373-374	110+00.00	SR 63		115+85.00	SR 63						585		10						585								16
DL-101	374	115+85.00	SR 63		116+56.37	SR 63					110							110										
CL-102	374-375	117+00.00	SR 63		134+00.00	SR 63			0.32								0.64										23	
CH-102	374	114+30.00	SR 63		115+85.00	SR 63						155		3						155								5
CL-103	375-376	136+10.00	SR 63		141+35.00	SR 63			0.10								0.20										8	
CH-103	375	134+00.00	SR 63		135+00.00	SR 63						100		2						100								4
DL-102	376	146+12.00	SR 63		146+88.10	SR 63					110							110										
CH-121	376-377	147+24.00	SR 63		150+85.00	SR 63						361								361								10
CH-123	376-377	147+24.00	SR 63		150+50.00	SR 63						326		6						326								10
CL-104	376-378	148+50.00	SR 63		165+10.00	SR 63			0.32								0.64										22	
CH-104	376	140+15.00	RT SR 63		146+22.00	RT SR 63						607		10						607								17
CH-105	376	141+35.00	SR 63		146+12.00	SR 63						477		8						477								13
CH-122	376	147+34.00	SR 63		149+46.00	SR 63						212		4						212								6
CL-105	378	170+50.00	SR 63		178+60.00	SR 63			0.15								0.30										12	
CH-124	379	182+30.00	SR 63		184+75.00	SR 63						245		4						245								8
CH-106	379	178+60.00	RT SR 63		181+45.00	RT SR 63						285		5						285								8
CL-106	379-381	184+75.00	RT SR 63		227+00.00	RT SR 63			0.80								1.60										54	
CH-125		NOT USED																										
CH-107		NOT USED																										
CL-107	381-383	209+50.00	SR 63		227+00.00	SR 63			0.33								0.66										23	
CH-108	382-383	223+75.00	RT SR 63		229+47.00	RT SR 63						572		9						572								16
CH-109	382-383	223+75.00	RT SR 63		229+47.00	RT SR 63						572		9						572								16
DL-103	383	229+30.00	LT SR 63		230+25.00	LT SR 63				141								141										
CH-128	383	230+69.00	LT SR 63		235+50.00	LT SR 63						481		9						481								13
CH-110	383	227+00.00	RT SR 63		229+37.00	RT SR 63						237		4						237								7
CH-126	383	230+74.00	RT SR 63		235+50.00	RT SR 63						476		9						476								13
CH-127	383	230+69.00	SR 63		234+00.00	SR 63						331								331								10
CL-108	383	233+04.00	RT SR 63		250+85.00	RT SR 63			0.34								0.68										24	
DL-100	384	246+29.00	RT SR 63		253+00.00	RT SR 63				660								660										
TOTALS CARRIED TO GENERAL SUMMARY								5.4	5.8	5.4	1021	7125		106		11.2	10.8	1021	7125					356	77	35	367	204

PAVEMENT MARKING SUBSUMMARY SR 63 AND SR 741

DESIGN AGENCY
JACOBS

DESIGNER
TES

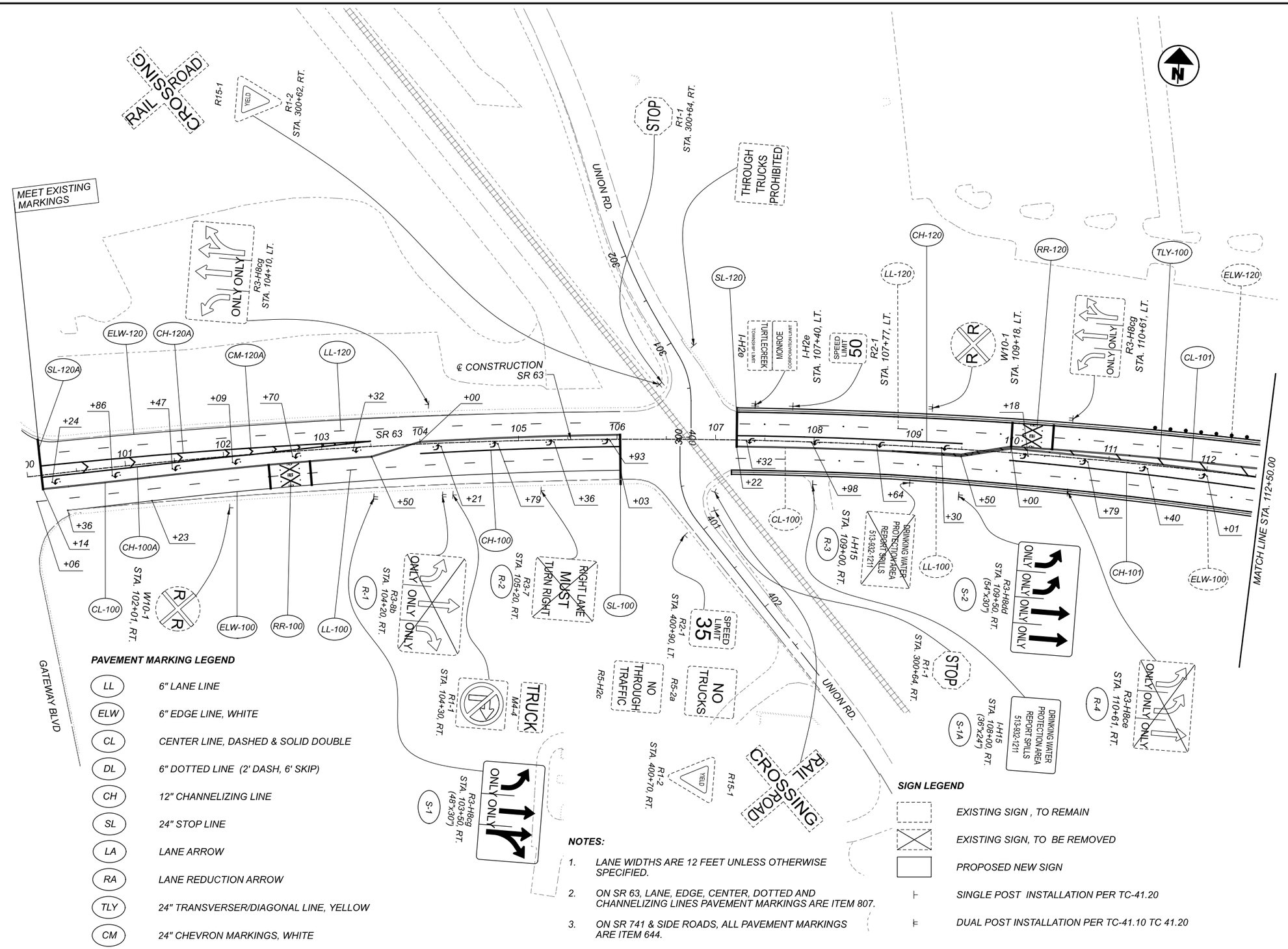
REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 372A | TOTAL 436

WAR-63-0.83

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PAVEMENT MARKING LEGEND

LL	6" LANE LINE
ELW	6" EDGE LINE, WHITE
CL	CENTER LINE, DASHED & SOLID DOUBLE
DL	6" DOTTED LINE (2' DASH, 6' SKIP)
CH	12" CHANNELIZING LINE
SL	24" STOP LINE
LA	LANE ARROW
RA	LANE REDUCTION ARROW
TLY	24" TRANSVERSER/DIAGONAL LINE, YELLOW
CM	24" CHEVRON MARKINGS, WHITE
IM	ISLAND MARKING
RR	RAILROAD CROSSING

NOTES:

1. LANE WIDTHS ARE 12 FEET UNLESS OTHERWISE SPECIFIED.
2. ON SR 63, LANE, EDGE, CENTER, DOTTED AND CHANNELIZING LINES PAVEMENT MARKINGS ARE ITEM 807.
3. ON SR 741 & SIDE ROADS, ALL PAVEMENT MARKINGS ARE ITEM 644.

SIGN LEGEND

- EXISTING SIGN , TO REMAIN
- EXISTING SIGN, TO BE REMOVED
- PROPOSED NEW SIGN
- SINGLE POST INSTALLATION PER TC-41.20
- DUAL POST INSTALLATION PER TC-41.10 TC 41.20

HORIZONTAL SCALE IN FEET
0 25 50 100

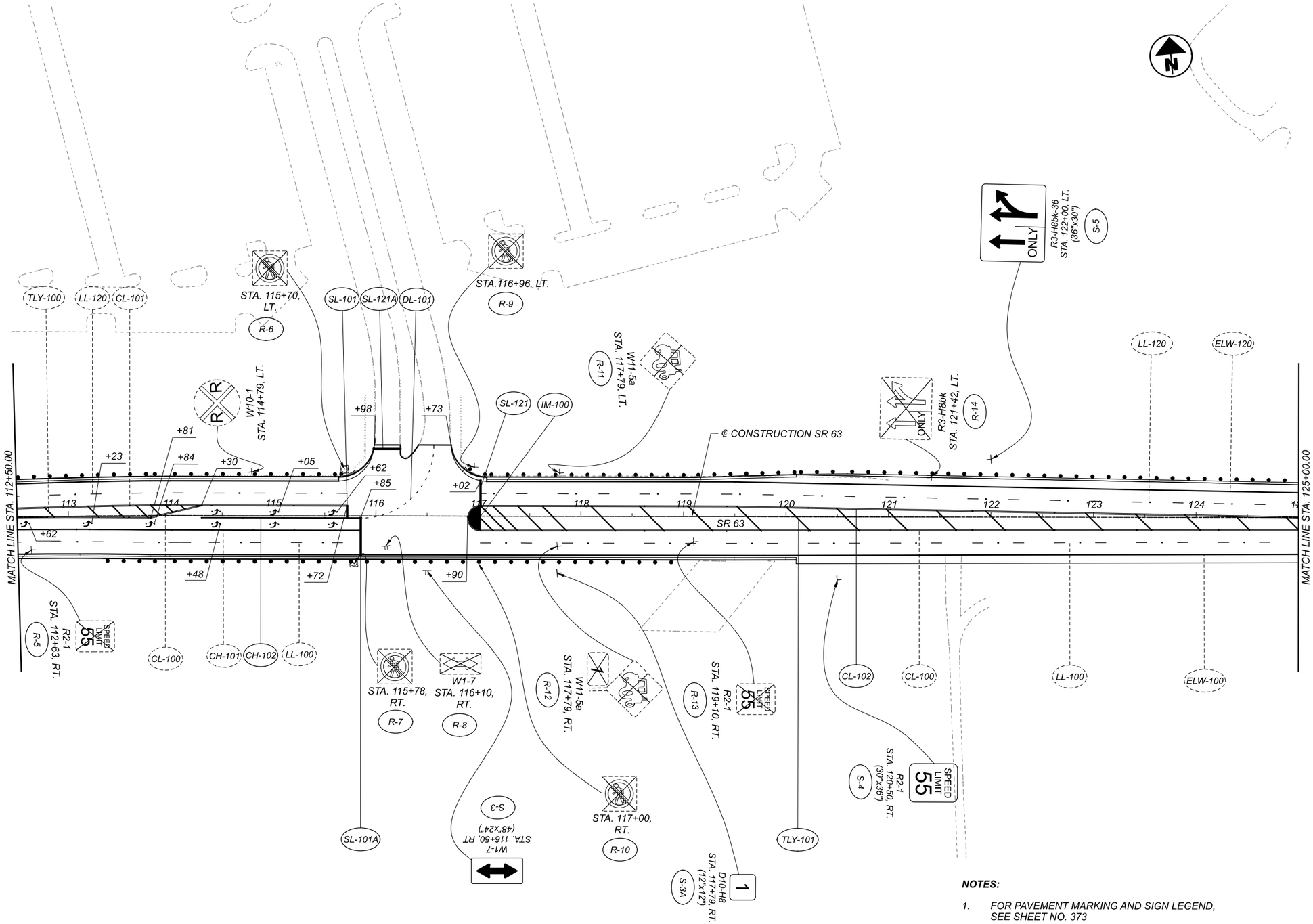
TRAFFIC CONTROL PLAN - SR 63
STA. 100+00.00 TO STA. 112+50.00

DESIGN AGENCY
JACOBS

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 373 TOTAL 436

WAR-63-0.83

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NOTES:

1. *FOR PAVEMENT MARKING AND SIGN LEGEND, SEE SHEET NO. 373*
2. *LANE WIDTHS ARE 12 FEET UNLESS OTHERWISE SPECIFIED.*
3. *ON SR 63, LANE, EDGE, CENTER, DOTTED AND CHANNELIZING LINES PAVEMENT MARKINGS ARE ITEM 807.*
4. *ON SR 741 & SIDE ROADS, ALL PAVEMENT MARKINGS ARE ITEM 644.*

HORIZONTAL SCALE IN FEET
0 25 50 100

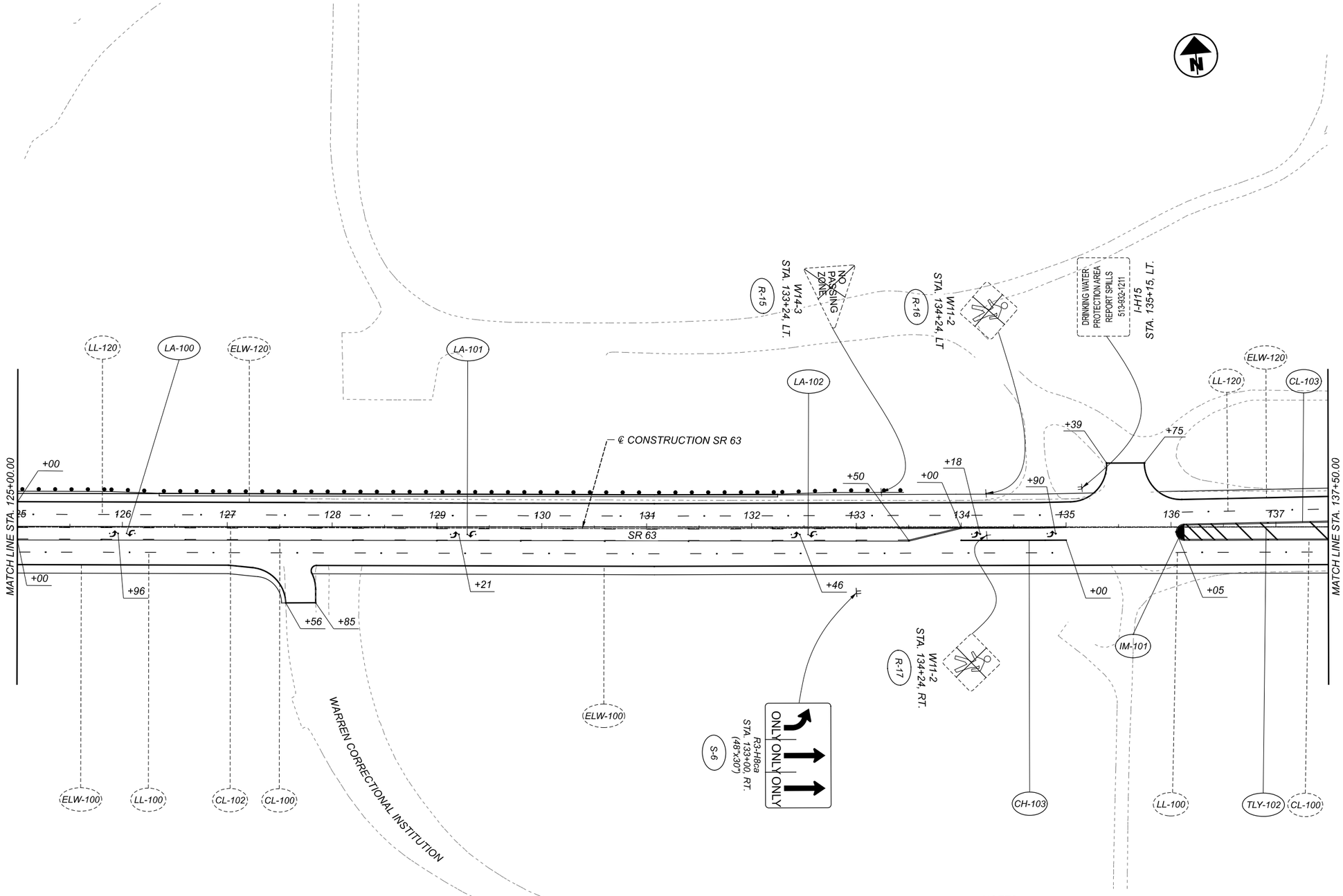
TRAFFIC CONTROL PLAN - SR 63
STA. 112+50.00 TO STA. 125+00.00

DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	374
TOTAL	436

WAR-63-0.83

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NOTES:

1. *FOR PAVEMENT MARKING AND SIGN LEGEND, SEE SHEET NO. 373*
2. *LANE WIDTHS ARE 12 FEET UNLESS OTHERWISE SPECIFIED.*
3. *ON SR 63, LANE, EDGE, CENTER, DOTTED AND CHANNELIZING LINES PAVEMENT MARKINGS ARE ITEM 807.*
4. *ON SR 741 & SIDE ROADS, ALL PAVEMENT MARKINGS ARE ITEM 644.*

HORIZONTAL SCALE IN FEET
0 25 50 100

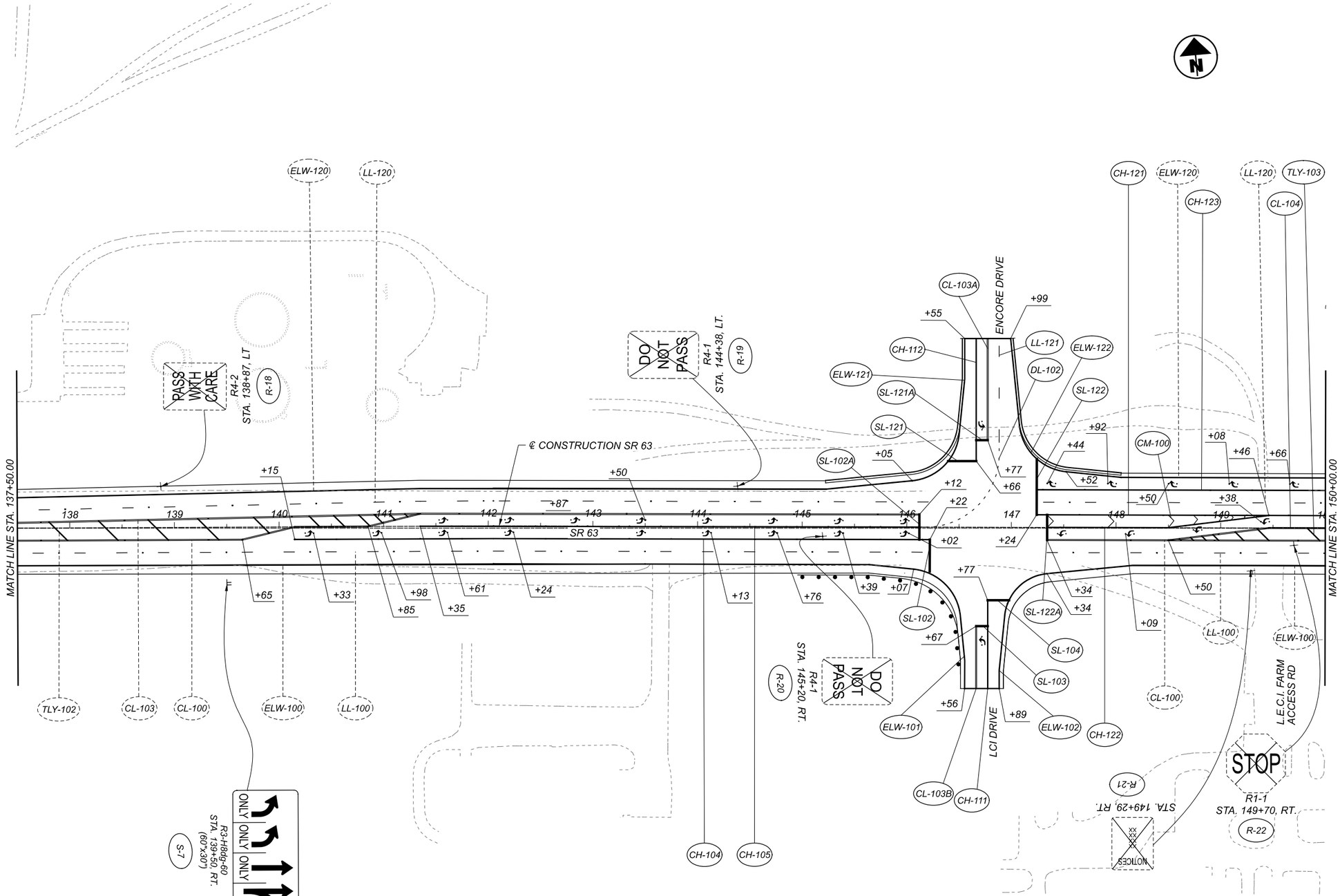
TRAFFIC CONTROL PLAN - SR 63
STA. 125+00.00 TO STA. 137+50.00

DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	375
TOTAL	436

WAR-63-0.83

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NOTES:

1. *FOR PAVEMENT MARKING AND SIGN LEGEND, SEE SHEET NO. 373*
2. *LANE WIDTHS ARE 12 FEET UNLESS OTHERWISE SPECIFIED.*
3. *ON SR 63, LANE, EDGE, CENTER, DOTTED AND CHANNELIZING LINES PAVEMENT MARKINGS ARE ITEM 807.*
4. *ON SR 741 & SIDE ROADS, ALL PAVEMENT MARKINGS ARE ITEM 644.*

HORIZONTAL SCALE IN FEET
0 25 50 100

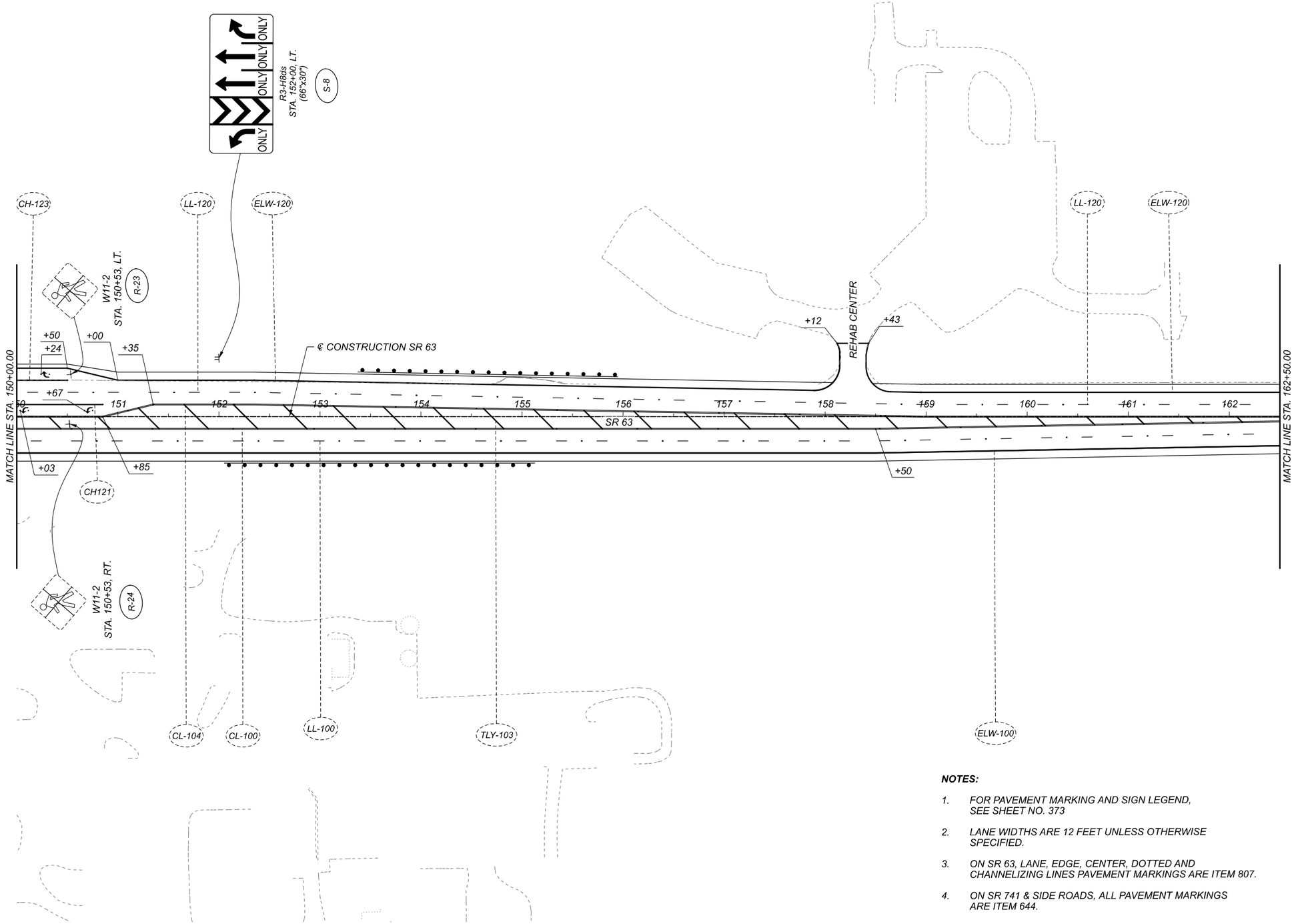
TRAFFIC CONTROL PLAN - SR 63
STA. 137+50.00 TO STA. 150+00.00

DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	376
TOTAL	436

WAR-63-0.83

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NOTES:

1. *FOR PAVEMENT MARKING AND SIGN LEGEND, SEE SHEET NO. 373*
2. *LANE WIDTHS ARE 12 FEET UNLESS OTHERWISE SPECIFIED.*
3. *ON SR 63, LANE, EDGE, CENTER, DOTTED AND CHANNELIZING LINES PAVEMENT MARKINGS ARE ITEM 807.*
4. *ON SR 741 & SIDE ROADS, ALL PAVEMENT MARKINGS ARE ITEM 644.*

HORIZONTAL SCALE IN FEET
0 25 50 100

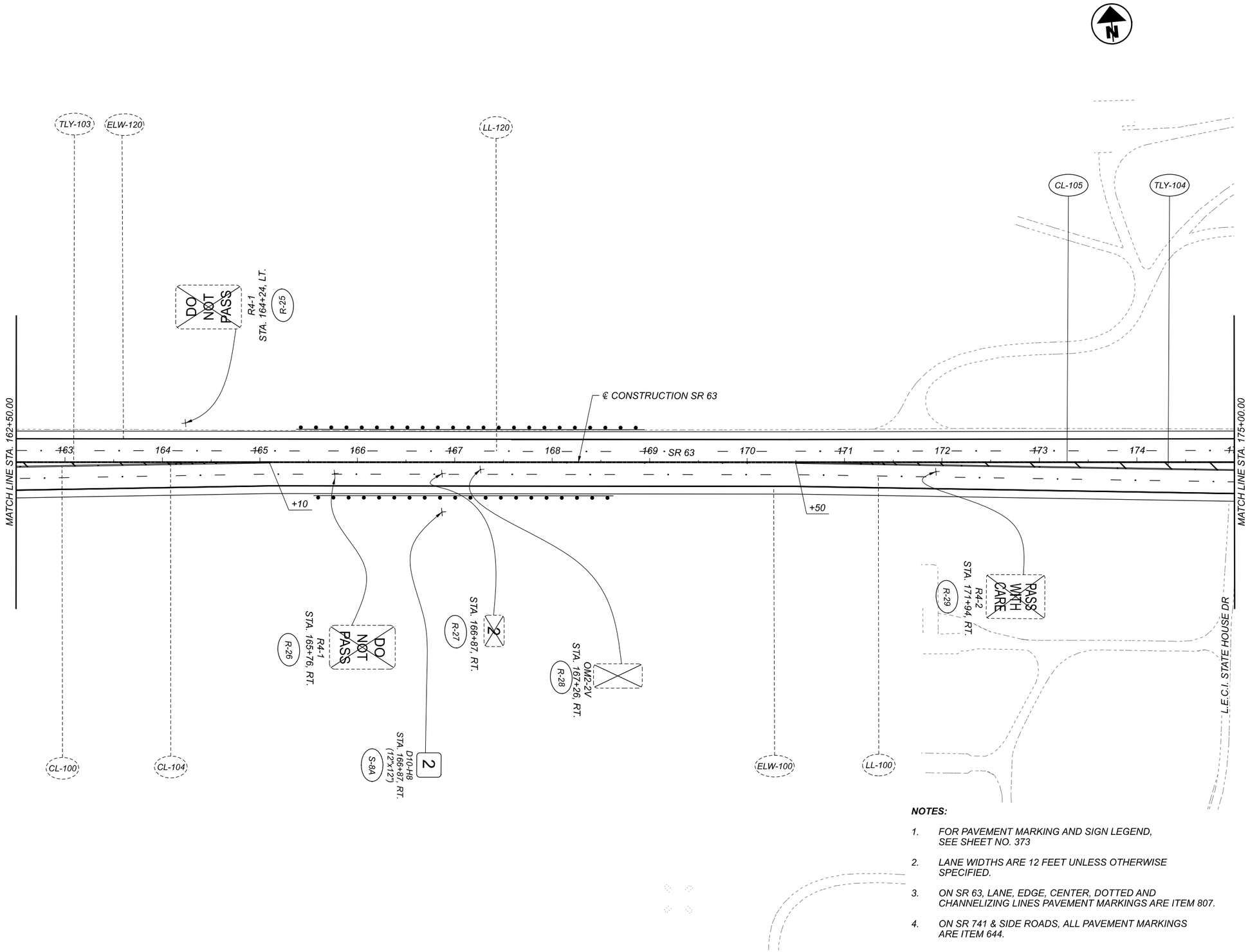
TRAFFIC CONTROL PLAN - SR 63
STA. 150+00.00 TO STA. 162+50.00

DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	377
TOTAL	436

WAR-63-0.83

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NOTES:

1. *FOR PAVEMENT MARKING AND SIGN LEGEND, SEE SHEET NO. 373*
2. *LANE WIDTHS ARE 12 FEET UNLESS OTHERWISE SPECIFIED.*
3. *ON SR 63, LANE, EDGE, CENTER, DOTTED AND CHANNELIZING LINES PAVEMENT MARKINGS ARE ITEM 807.*
4. *ON SR 741 & SIDE ROADS, ALL PAVEMENT MARKINGS ARE ITEM 644.*

HORIZONTAL SCALE IN FEET
0 25 50 100

TRAFFIC CONTROL PLAN - SR 63
STA. 162+50.00 TO STA. 175+00.00

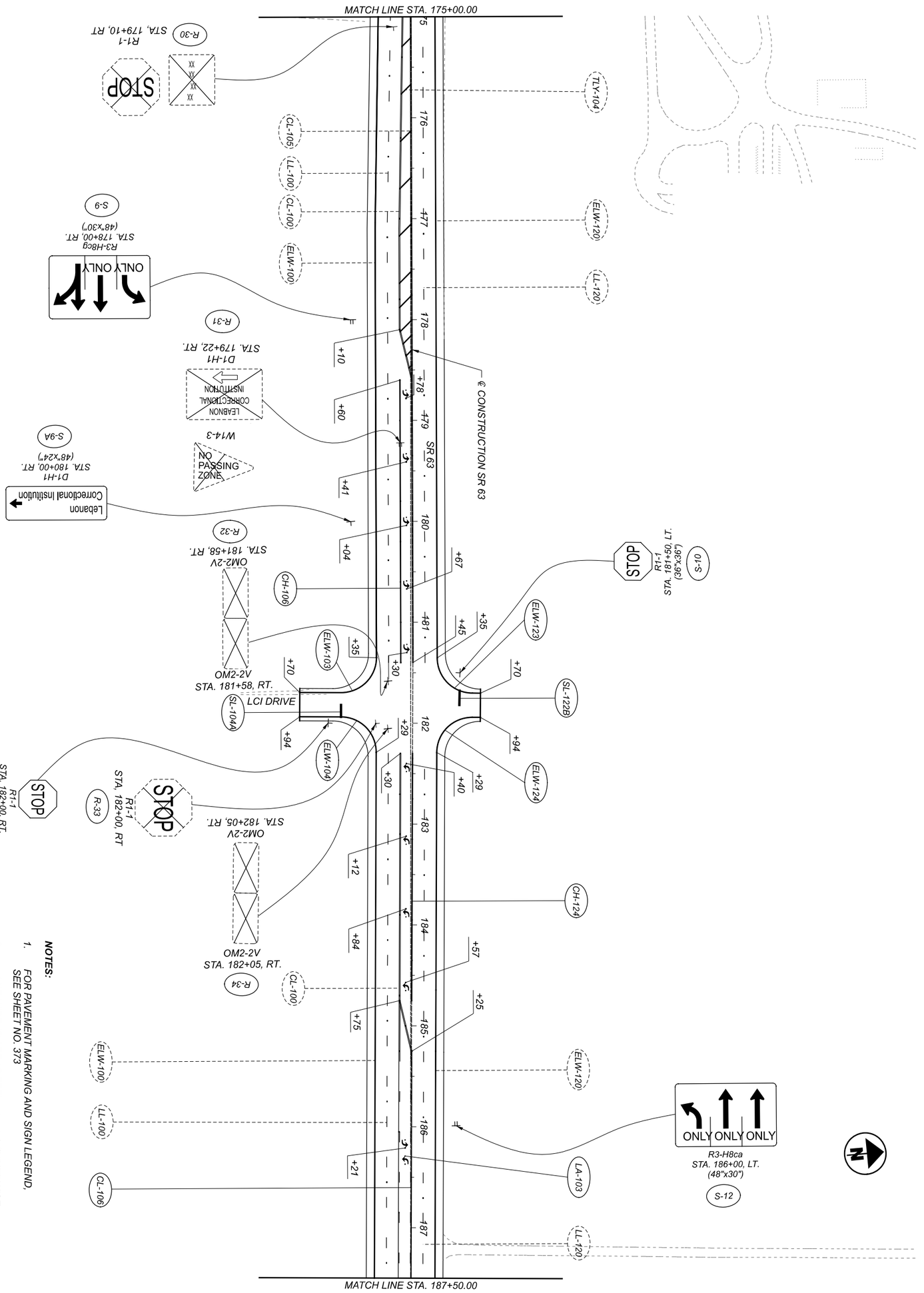
DESIGN AGENCY
JACOBS

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 378 TOTAL 436

WAR-63-0.83

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NOTES:

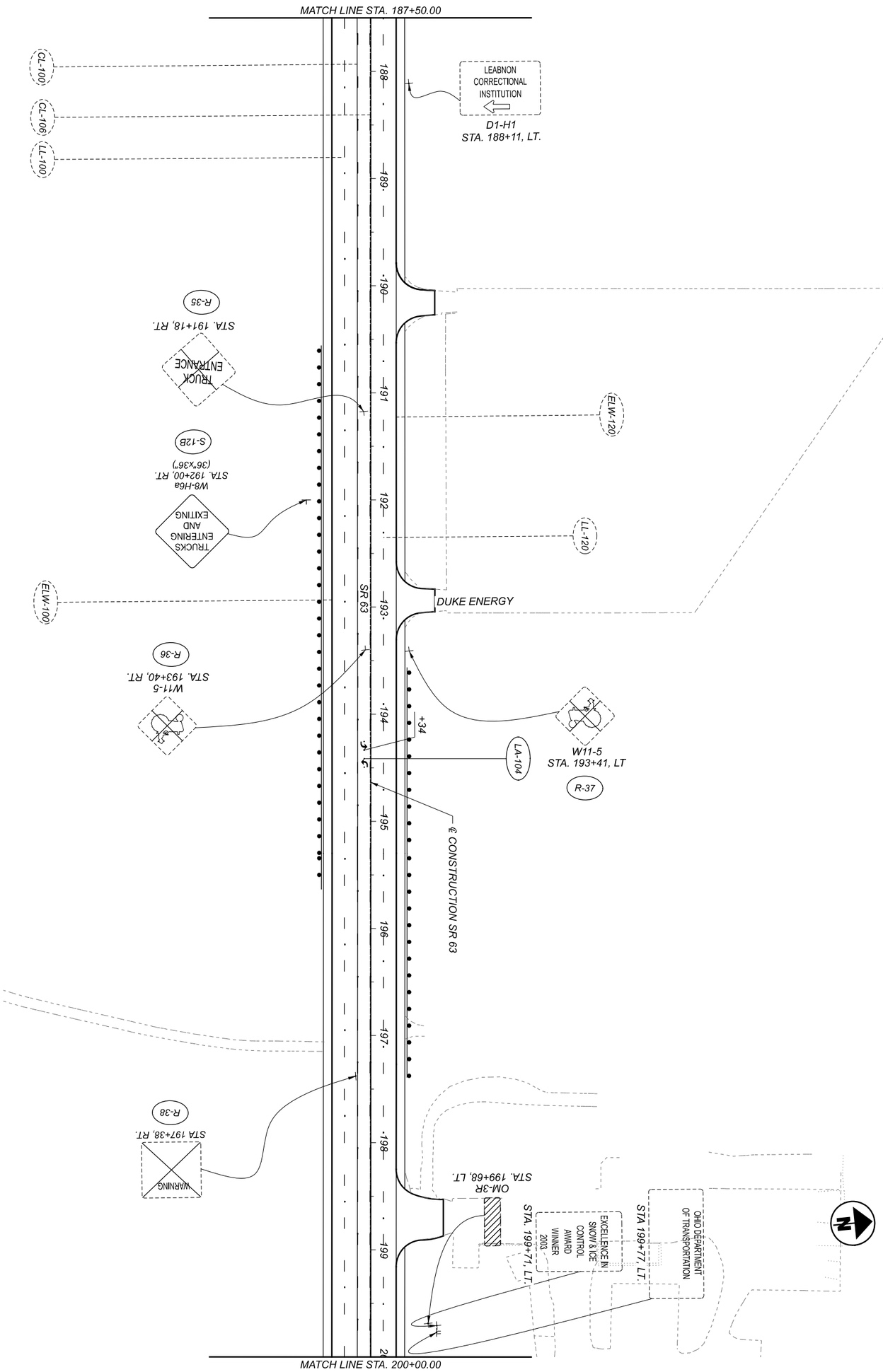
1. *FOR PAVEMENT MARKING AND SIGN LEGEND, SEE SHEET NO. 373*
2. *LANE WIDTHS ARE 12 FEET UNLESS OTHERWISE SPECIFIED.*
3. *ON SR 63, LANE, EDGE, CENTER, DOTTED AND CHANNELIZING LINES PAVEMENT MARKINGS ARE ITEM 807.*
4. *ON SR 741 & SIDE ROADS, ALL PAVEMENT MARKINGS ARE ITEM 644.*

TRAFFIC CONTROL PLAN - SR 63
STA. 175+00.00 TO STA. 187+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER: MJA
REVIEWER: RN 08/22/23
PROJECT ID: 112121
SHEET: 379 TOTAL: 436
DESIGN AGENCY: JACOBS

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NOTES:

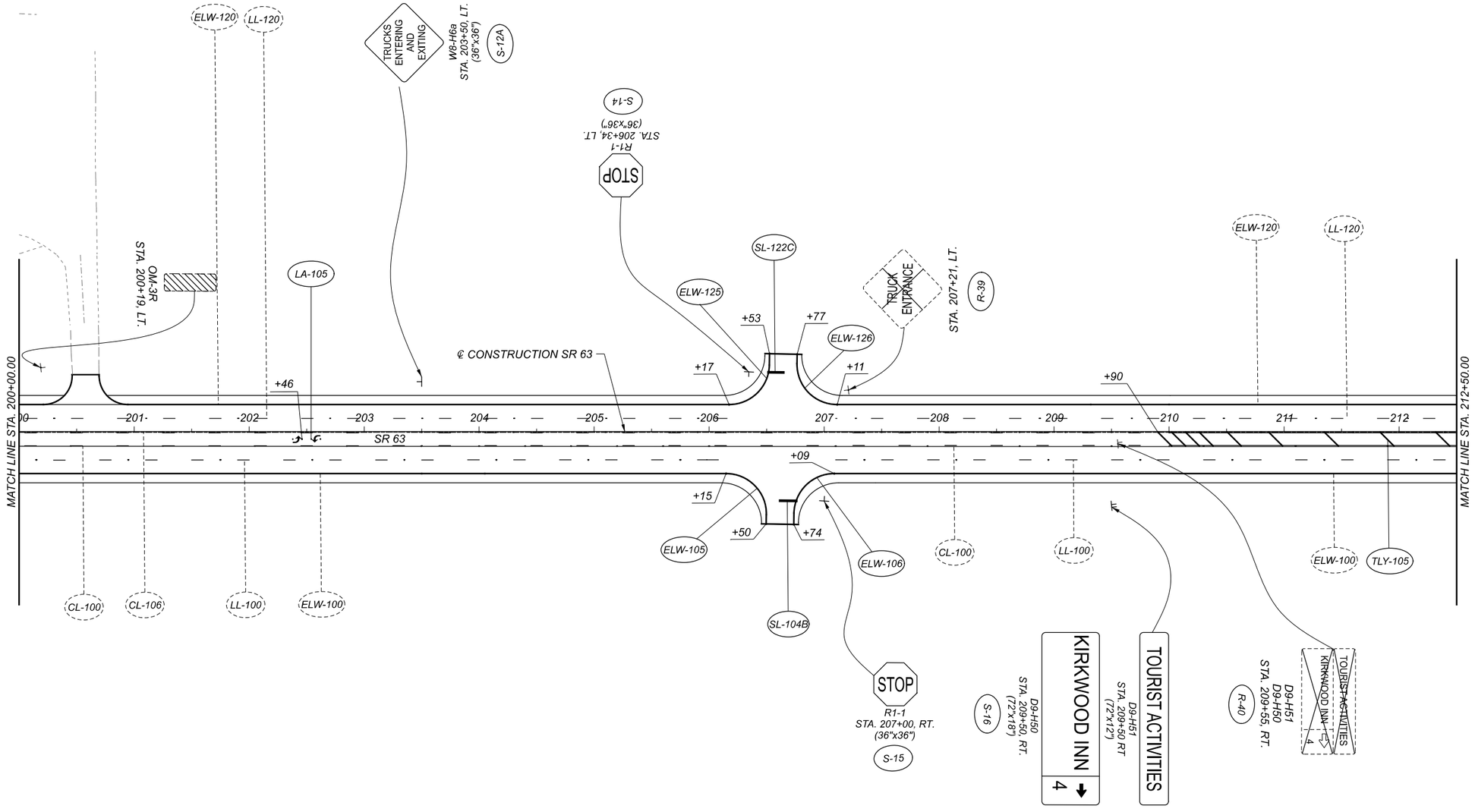
1. *FOR PAVEMENT MARKING AND SIGN LEGEND, SEE SHEET NO. 373*
2. *LANE WIDTHS ARE 12 FEET UNLESS OTHERWISE SPECIFIED.*
3. *ON SR 63, LANE, EDGE, CENTER, DOTTED AND CHANNELIZING LINES PAVEMENT MARKINGS ARE ITEM 807.*
4. *ON SR 741 & SIDE ROADS, ALL PAVEMENT MARKINGS ARE ITEM 644.*

DESIGN AGENCY
JACOBS

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 380 TOTAL 436

TRAFFIC CONTROL PLAN - SR 63
STA. 187+50.00 TO STA. 200+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100



NOTES:

1. *FOR PAVEMENT MARKING AND SIGN LEGEND, SEE SHEET NO. 373*
2. *LANE WIDTHS ARE 12 FEET UNLESS OTHERWISE SPECIFIED.*
3. *ON SR 63, LANE, EDGE, CENTER, DOTTED AND CHANNELIZING LINES PAVEMENT MARKINGS ARE ITEM 807.*
4. *ON SR 741 & SIDE ROADS, ALL PAVEMENT MARKINGS ARE ITEM 644.*

HORIZONTAL SCALE IN FEET
0 25 50 100

TRAFFIC CONTROL PLAN - SR 63
STA. 200+00.00 TO STA. 212+50.00

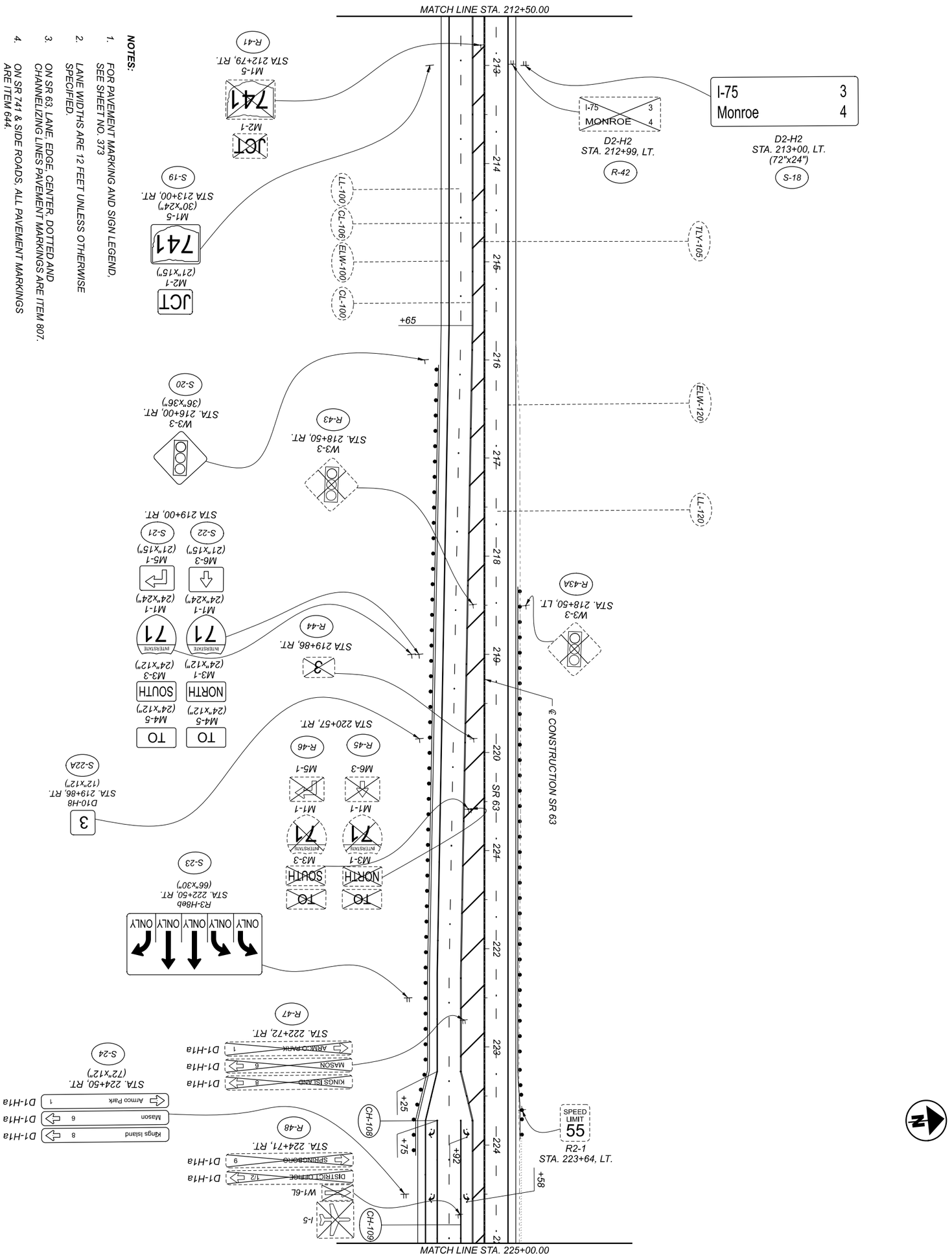
DESIGN AGENCY
JACOBS

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 381 TOTAL 436

WAR-63-0.83

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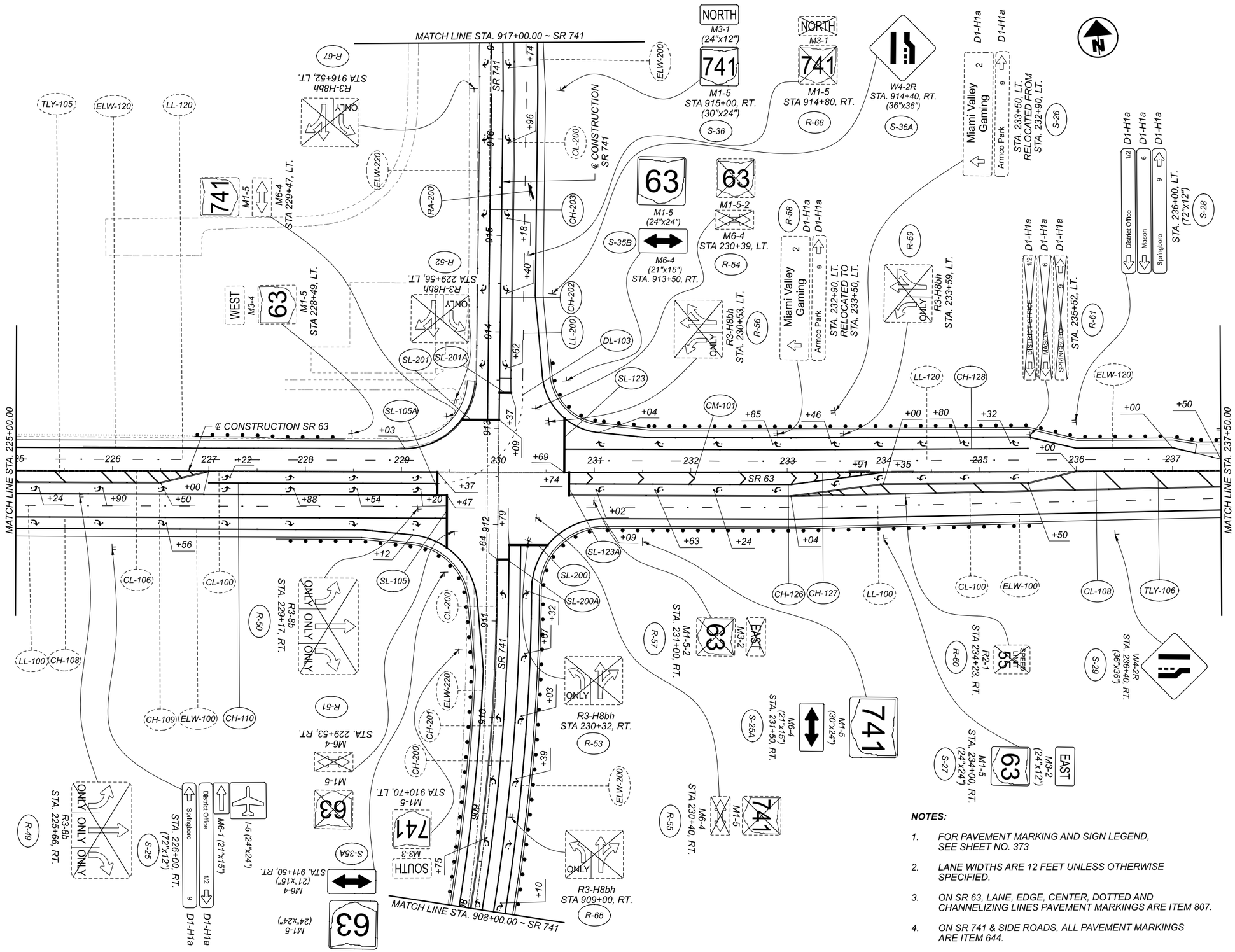


NOTES:

1. FOR PAVEMENT MARKING AND SIGN LEGEND. SEE SHEET NO. 373
2. LANE WIDTHS ARE 12 FEET UNLESS OTHERWISE SPECIFIED.
3. ON SR 63, LANE, EDGE, CENTER, DOTTED AND CHANNELIZING LINES PAVEMENT MARKINGS ARE ITEM 807.
4. ON SR 741 & SIDE ROADS, ALL PAVEMENT MARKINGS ARE ITEM 644.

SHEET 382 | TOTAL 436	PROJECT ID 112121	DESIGNER MJA REVIEWER RN 08/22/23	JACOBS	DESIGN AGENCY	TRAFFIC CONTROL PLAN - SR 63 STA. 212+50.00 TO STA. 225+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100



HORIZONTAL SCALE IN FEET
0 25 50 100

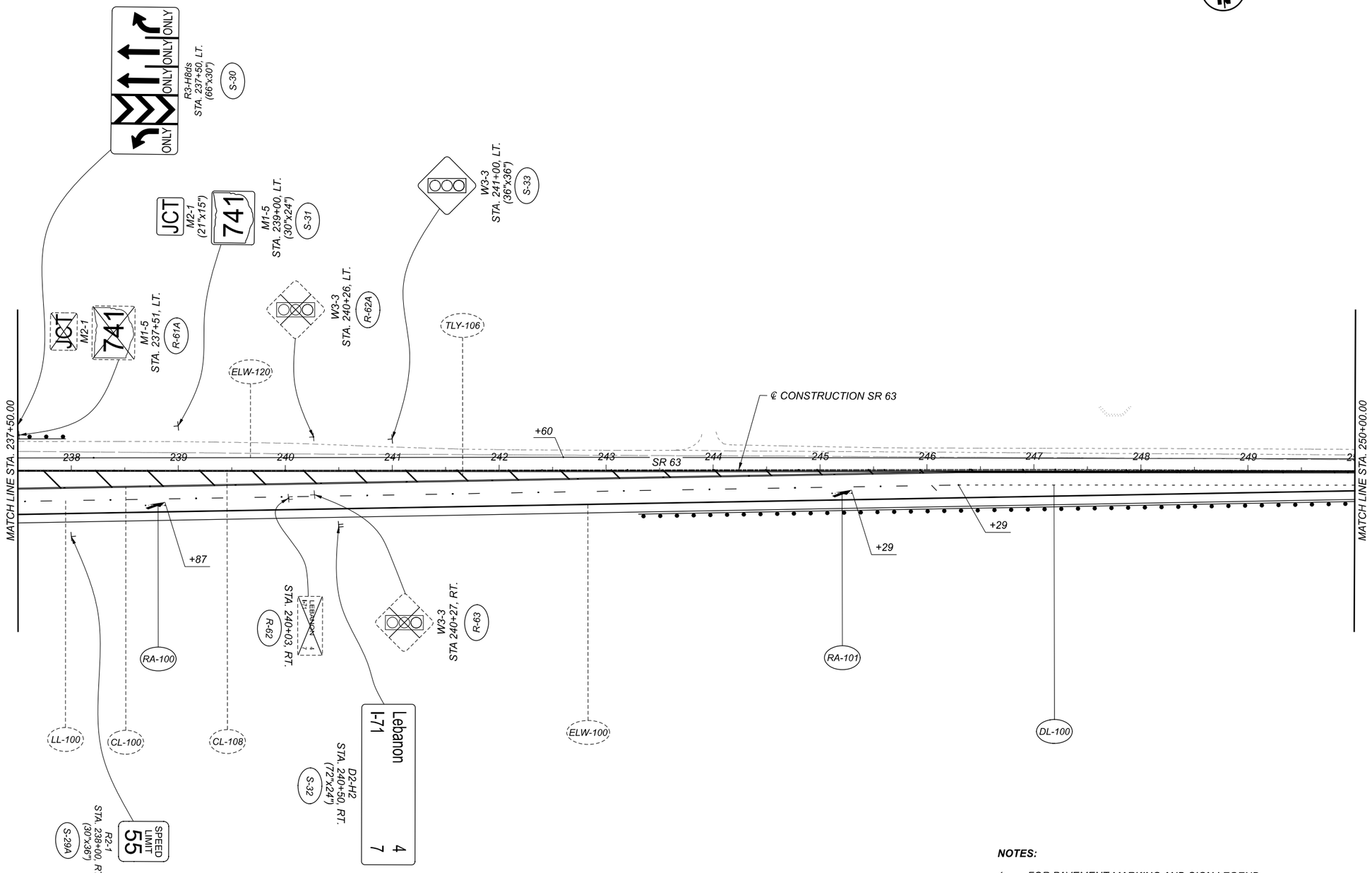
TRAFFIC CONTROL PLAN - SR 63
STA. 225+00.00 TO STA. 237+50.00

DESIGN AGENCY
JACOBS

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 383 TOTAL 436

WAR-63-0.83

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NOTES:

1. *FOR PAVEMENT MARKING AND SIGN LEGEND, SEE SHEET NO. 373*
2. *LANE WIDTHS ARE 12 FEET UNLESS OTHERWISE SPECIFIED.*
3. *ON SR 63, LANE, EDGE, CENTER, DOTTED AND CHANNELIZING LINES PAVEMENT MARKINGS ARE ITEM 807.*
4. *ON SR 741 & SIDE ROADS, ALL PAVEMENT MARKINGS ARE ITEM 644.*

HORIZONTAL SCALE IN FEET
0 25 50 100

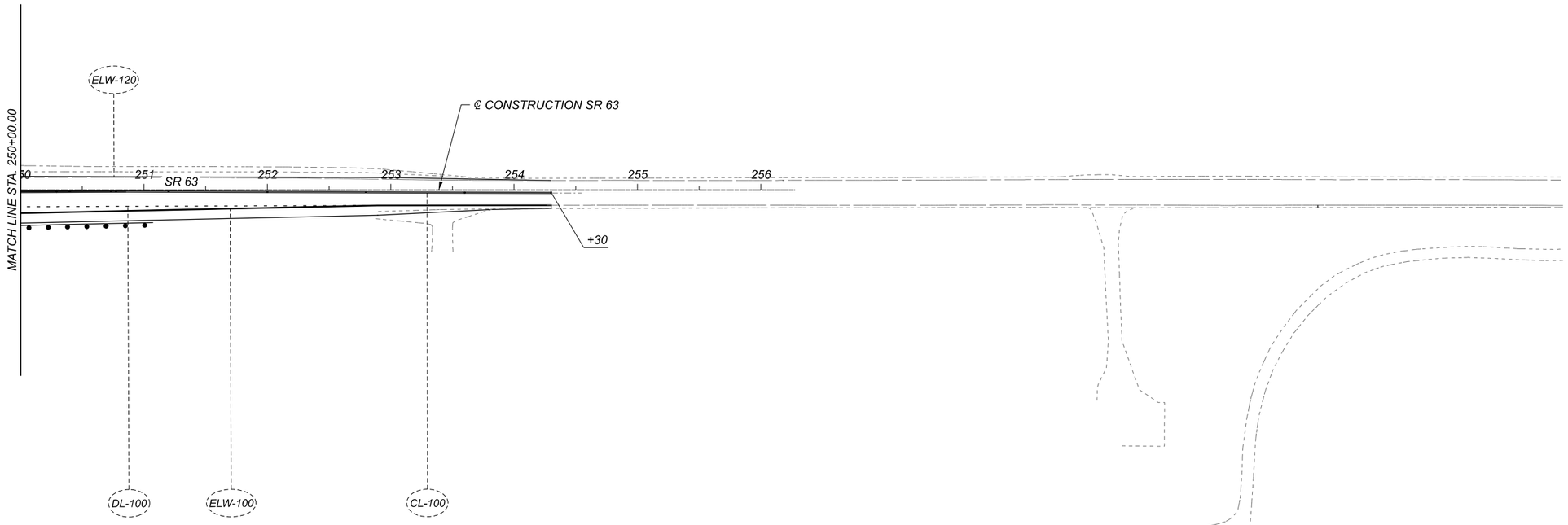
TRAFFIC CONTROL PLAN - SR 63
STA.237+50.00 TO STA. 250+00.00

DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	384
TOTAL	436

WAR-63-0.83

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NOTES:

1. *FOR PAVEMENT MARKING AND SIGN LEGEND, SEE SHEET NO. 373*
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3. *ON SR 63, LANE, EDGE, CENTER, DOTTED AND CHANNELIZING LINES PAVEMENT MARKINGS ARE ITEM 807.*
4. *ON SR 741 & SIDE ROADS, ALL PAVEMENT MARKINGS ARE ITEM 644.*

HORIZONTAL SCALE IN FEET
0 25 50 100

TRAFFIC CONTROL PLAN - SR 63
STA. 250+00.00 TO STA. 265+00.00

DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	385
TOTAL	436

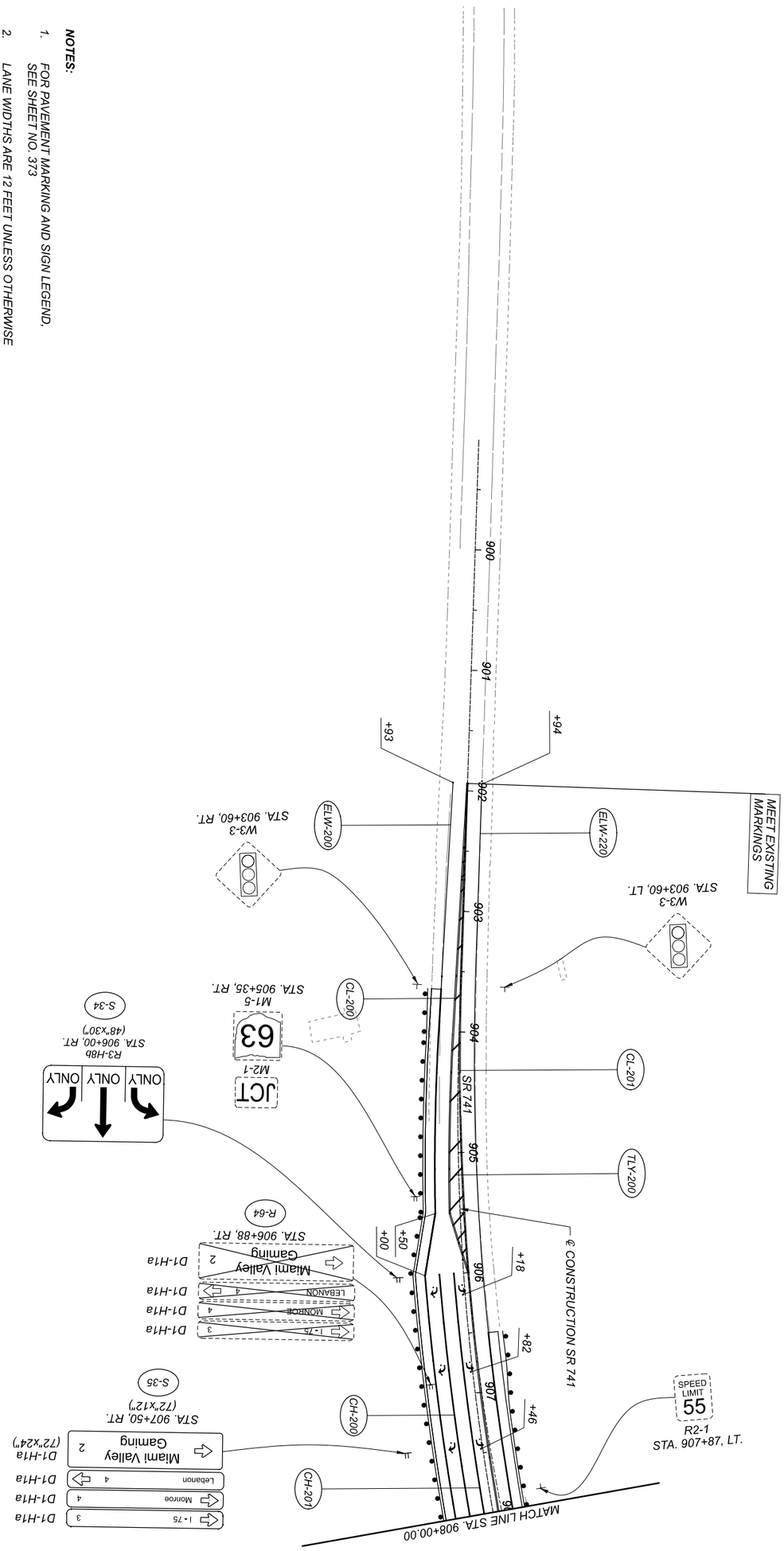
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NOTES:

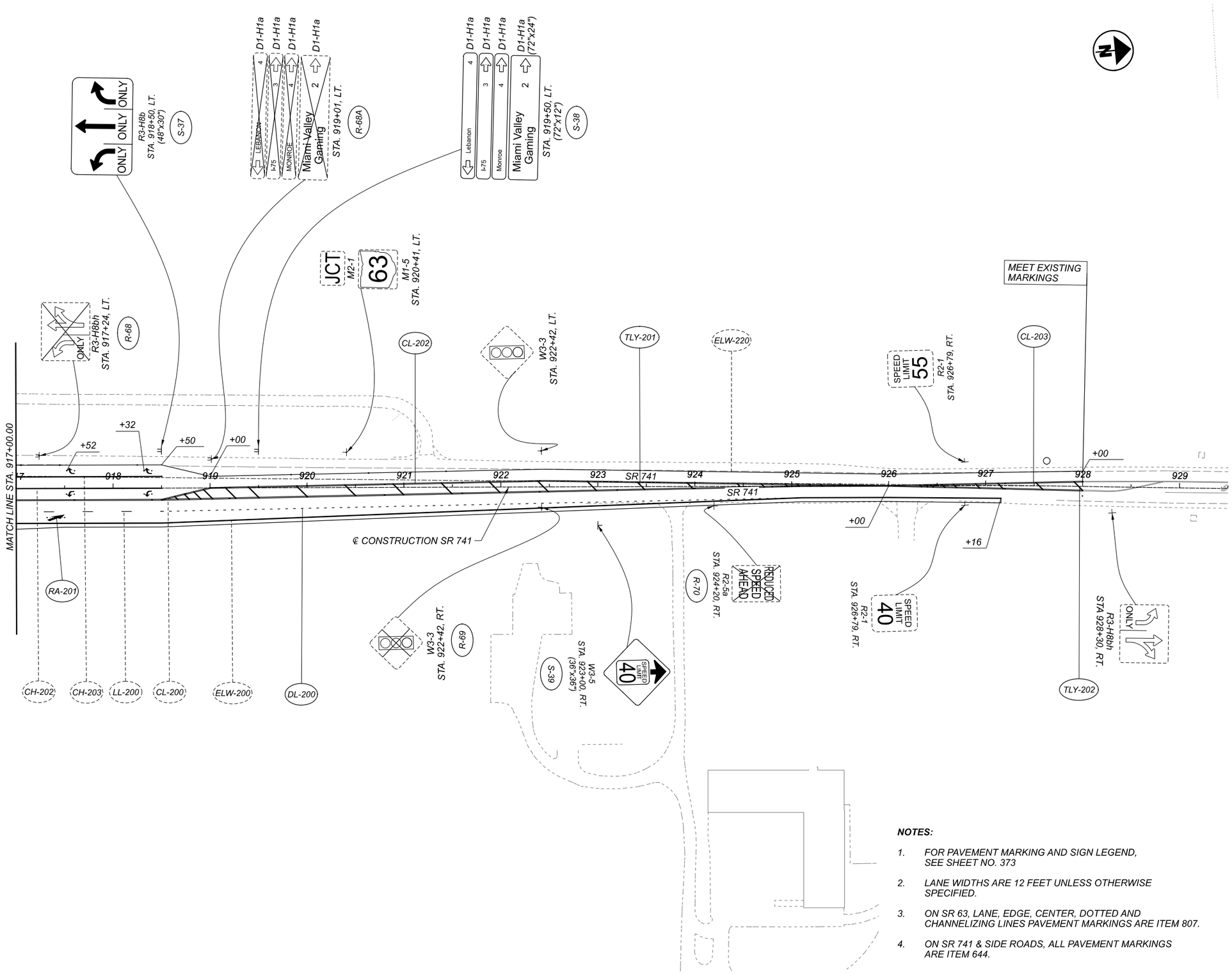
1. FOR PAVEMENT MARKING AND SIGN LEGEND, SEE SHEET NO. 373
2. LANE WIDTHS ARE 12 FEET UNLESS OTHERWISE SPECIFIED.
3. ON SR 63, LANE, EDGE, CENTER, DOTTED AND CHANNELIZING LINES PAVEMENT MARKINGS ARE ITEM 807.
4. ON SR 741 & SIDE ROADS, ALL PAVEMENT MARKINGS ARE ITEM 644.



TRAFFIC CONTROL PLAN - SR 741
STA. 900+00.00 TO STA. 908+00.00

DESIGNER MJA
REVIEWER RN 08/22/23
PROJECT ID 112121
SHEET 386 TOTAL 436
DESIGN AGENCY JACOBS

HORIZONTAL SCALE IN FEET
0 50
25 100



NOTES:

1. *FOR PAVEMENT MARKING AND SIGN LEGEND, SEE SHEET NO. 373*
2. *LANE WIDTHS ARE 12 FEET UNLESS OTHERWISE SPECIFIED.*
3. *ON SR 63, LANE, EDGE, CENTER, DOTTED AND CHANNELIZING LINES PAVEMENT MARKINGS ARE ITEM 807.*
4. *ON SR 741 & SIDE ROADS, ALL PAVEMENT MARKINGS ARE ITEM 644.*

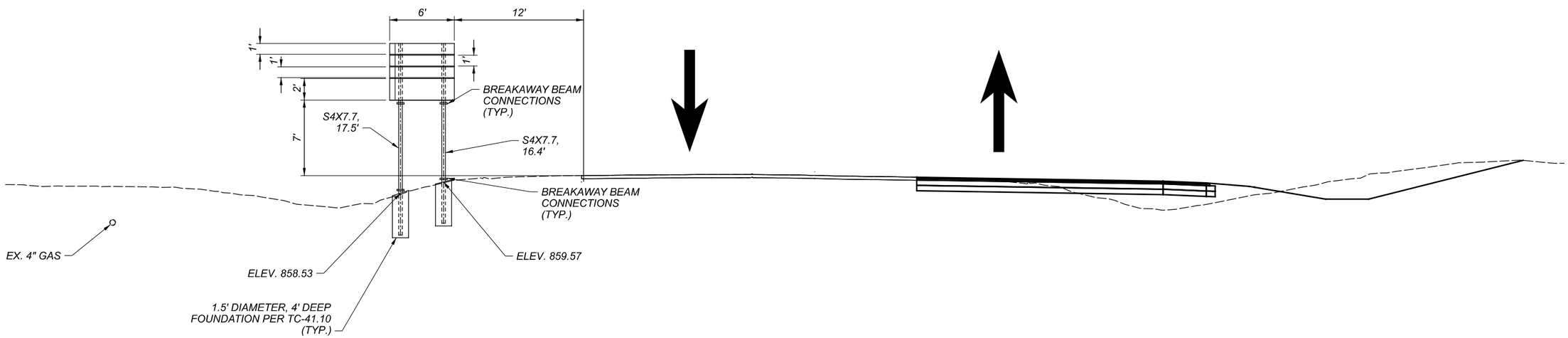
TRAFFIC CONTROL PLAN - SR 741
STA. 917+00.00 TO STA. 929+00.00

DESIGN AGENCY
JACOBS

DESIGNER	MJA
REVIEWER	RN 08/22/23
PROJECT ID	112121
SHEET	387
TOTAL	436

WAR-63-0.83

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S-38

SR 741 - STA. 919+50.00, LT.
D1-H1a
LOOKING IN THE DIRECTION OF NORTHBOUND TRAFFIC
BEAM SIZE S4X7.7

SIGN DETAILS
SR 741 - STA. 919+50.00, LT.

DESIGN AGENCY
JACOBS

DESIGNER
TES

REVIEWER
RN 08/22/23

PROJECT ID
112121

SHEET 387A | TOTAL 436

WAR-63-0.83

MODEL: Sheet PAPERSIZE: 17x11(in.) DATE: 8/23/2023 TIME: 12:03 PM USER: rnunna
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MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL/FLASHER INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS:

1.EXISTING SIGNAL/FLASHER INSTALLATIONS WHICH HE PLANS REQUIRE THE CONTRACTOR TO ADJUST, MODIFY, ADD ONTO OR REMOVE, OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS.THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION (AT AN INTERSECTION) FROM THE TIME HIS OPERATIONS FIRST DISTURBTHE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK IS ACCEPTED.

2.NEW OR REUSED SIGNAL/FLASHER INSTALLATIONS OR DEVICES, INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED. HE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. HE SHALL PROVIDE THE MAINTAINING AGENCY AND THE ENGINEER SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES CAN BE CONTACTED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TOTHESE CALLS AND A PERSON IS READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK. ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILURES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK TO SERVICE WITHIN FOUR HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE OUTAGE. IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT EXCEPT POLES AND CONTROL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN 4 HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE OUTAGE. THE CONTRACTOR SHALL ARRANGE FOR FULL TRAFFIC CONTROL UNTIL THE SIGNAL IS BACK IN OPERATION. IF POLES AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL OPERATION WITHIN THE ALLOWED 4-HOUR PERIOD, AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENT AS SOON THEREAFTER AS POSSIBLE.

NONE OF THE ABOVE SHALL BE CONSTRUED AS COLLECTIVE OR CONSECUTIVE OUTAGE TIME PERIODS AT ANY ONE LOCATION. THAT IS, WHERE MORE THAN ONE OUTAGE OCCURS AT ANY ONE LOCATION THEN THE ALLOTTED TIME LIMIT SHALL BE FOR THE WORST SINGLE OUTAGE. WHERE OUTAGES ARE THE DIRECT RESULT OF A VEHICLE ACCIDENT THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION OF ANY COMPENSATION FOR THIS WORK FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE.

WHERE THE CONTRACTOR HAS FAILED TO, OR CANNOT RESPOND TO, AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION, AT THESE LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE, THE ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15 AND ANY SUBSEQUENT BILLINGS TO THE COUNTY OR STATE FOR POLICE SERVICES AND MAINTENANCE SERVICES BY ODOT FORCES SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF SECTION 105.15. CITY FORCES ARE NOT RESPONSIBLE FOR ANY PREVIOUS WORK DONE AT THE INTERSECTION.

THE CONTRACTOR SHALL PROVIDE THE MAINTENANCE SERVICE ENTIRELY WITH HIS FORCES OR HE MAY CHOOSE TO ENTER INTO A COOPERATIVE UNDERSTANDING WITH THE LOCAL MAINTAINING AGENCY TO PROVIDE THE MAINTENANCE. THE CONTRACTOR SHALL INFORM THE ENGINEER, IN WRITING, OF THE MAINTENANCE METHOD SELECTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE RELOCATION OF POLES AND REVISIONS TO THE SIGNAL SYSTEM. WHEN A TRAFFIC SIGNAL MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONSTRUCTION PROCEDURES, THIS OUTAGE SHALL NOT EXCEED 8 HOURS AND SHALL NOT INCLUDE THE HOURS OF 6AM TO 8PM. ANY SIGNALIZED INTERSECTION, WHERE THE SIGNAL IS OUT OF SERVICE DUE TO CONSTRUCTION PROCEDURES, OR DUE TO AN OUTAGE OR MALFUNCTION OF EQUIPMENT AS DESCRIBED ABOVE, SHALL BE PROTECTED, BY THE CONTRACTOR BY THE INSTALLATION OF TEMPORARY "STOP" SIGNS.

MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION(CONT.)

ANY VEHICULAR TRAFFIC SIGNAL HEAD, EITHER NEW OR EXISTING WHICH WILL BE OUT OF OPERATION SHALL BE COVERED IN THE MANNER DESCRIBED IN 632.25.
THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

1.TIME OF NOTIFICATION OF MALFUNCTION;
2.TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION;
3.ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING
A LIST OF PARTS REPAIRED OR REPLACED;
4.A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF REOCCURRENCE;
5.TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER WITHIN THREE (3) WORKING DAYS FOLLOWING COMPLETION OF EACH REPAIR. ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

GROUNDING AND BONDING

THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS) AND THE TC SERIES OF STANDARD CONSTRUCTION DRAWINGS ARE MODIFIED AS FOLLOWS:

1. ALL METALLIC PARTS CONTAINING ELECTRICAL CONDUCTORS SHALL BE PERMANENTLY JOINED TO FORM AN EFFECTIVE GROUND FAULT CURRENT PATH BACK TO THE GROUNDED CONDUCTOR IN THE POWER SERVICE DISCONNECT SWITCH.

   A. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN METALLIC CONDUITS (725.04) IN ADDITION TO THE CONDUCTORS SPECIFIED AND BOND THE CONDUIT TO THIS GROUNDING CONDUCTOR.

   B. WHEN AN EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED IN PLASTIC CONDUIT (725.05), THE INSTALLATION SHALL INCLUDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN ADDITION TO THE CONDUCTORS SPECIFIED.

   C. METALLIC CONDUIT CARRYING THE LOOP WIRES FROM IN THE PAVEMENT TO THE PULL BOX SPLICE LOCATION WILL ONLY BE BONDED AT THE PULL BOX END, AND WILL NOT CONTAIN AN EQUIPMENT GROUNDING CONDUCTOR.

   D. IF MULTIPLE CONDUIT RUNS BEGIN AND END AT THE SAME POINTS, ONLY ONE EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED.

   E. IF AN EQUIPMENT GROUNDING CONDUCTOR IS NEEDED IN CONDUIT BETWEEN SIGNALIZED INTERSECTIONS FOR UNDERGROUND INTERCONNECT CABLE, THE GROUNDING SYSTEM FOR EACH SIGNALIZED INTERSECTION WILL BE SEPARATED ABOUT MIDWAY BETWEEN THE INTERSECTIONS.

   F. THE MESSENGER WIRE AT SIGNALIZED INTERSECTIONS WILL BE USED AS THE CONDUCTIVE PATH FROM CORNER TO CORNER IF CONDUIT IS NOT PROVIDED UNDER THE ROADWAY. WHEN CONDUIT CONNECTS THE CORNERS OF AN INTERSECTION, AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE USED IN THE CONDUIT.

GROUNDING AND BONDING (CONT.)

2. CONDUITS.

   A. THE 725.04 CONDUIT SHALL HAVE GROUNDING BUSHINGS INSTALLED AT ALL TERMINATION POINTS. THE BUSHING MATERIAL SHALL BE COMPATIBLE WITH GALVANIZED STEEL CONDUIT AND THE GROUNDING LUG MATERIAL SHALL BE COMPATIBLE FOR USE WITH COPPER WIRE. THREADED OR COMPRESSION TYPE BUSHINGS MAY BE USED.

   B. THE 725.05 CONDUIT SHALL HAVE THE INSIDE AND OUTSIDE DIAMETERS OF THE CONDUIT DEBURRED AT ALL TERMINATION POINTS.

   C. BOTH ENDS OF METALLIC CONDUIT SHALL BE BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.

   D. METALLIC CONDUIT MAY BE BONDED TO METALLIC BOXES THROUGH THE USE OF CONDUIT FITTINGS UL APPROVED FOR THIS TYPE OF CONNECTION, WITH THE BOX BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.

3. WIRE FOR GROUNDING AND BONDING.

   A. USE INSULATED, COPPER WIRE FOR THE EQUIPMENT GROUNDING CONDUCTOR. BONDING JUMPERS IN BOXES AND ENCLOSURES MAY BE BARE OR INSULATED COPPER WIRE. WIRE SIZE SHALL BE AS FOLLOWS:

      I. USE 4 AWG BETWEEN THE POWER SERVICE AND SUPPORTS, POLES, PEDESTALS, CONTROLLER OR FLASHER CABINETS.

      II. USE A MINIMUM 8 AWG BETWEEN LOOP DETECTOR PULL BOXES AND THE FIRST CONDUIT THAT REQUIRES A LARGER SIZE AS SPECIFIED IN 3.A.I ABOVE.

      III. USE A MINIMUM 8 AWG BETWEEN THE "PREPARE TO STOP WHEN FLASHING" INSTALLATION (INCLUDING SUPPORT) AND THE FIRST CONDUIT THAT REQUIRES A LARGER SIZE AS SPECIFIED IN 3.A.I ABOVE.

      IV. THE INSULATION SHALL BE GREEN OR GREEN WITH YELLOW STRIPE(S). FOR 4 AWG OR LARGER, INSULATION MAY ALSO BE BLACK WITH GREEN TAPE/LABELS INSTALLED AT ALL ACCESS POINTS.

   B. IN A HIGHWAY LIGHTING SYSTEM, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE THE SAME WIRE SIZE AS THE DUCT CABLE OR DISTRIBUTION CABLE CIRCUIT CONDUCTORS, WITH THE MINIMUM CONDUCTOR SIZE OF 4 AWG. BONDING JUMPERS WILL BE MINIMUM SIZE 4 AWG.

4. GROUND ROD.

   A. A 3/4-INCH SCHEDULE 40 PVC CONDUIT WILL BE USED IN FOUNDATIONS AND CONCRETE WALLS FOR THE GROUNDING CONDUCTOR (GROUND WIRE) RACEWAY TO THE GROUND ROD. SHOULD METALLIC CONDUIT BE USED, BOTH ENDS OF THE CONDUIT SHALL BE BONDED TO THE GROUNDING CONDUCTOR.

   B. THE TYPICAL GROUNDING CONDUCTOR (GROUND WIRE) SHALL BE 4 AWG INSULATED, COPPER.

5. THE GREEN CONDUCTOR IN SIGNAL CABLES (CONDUCTOR #4) SHALL NOT BE USED TO SUPPLY POWER TO A SIGNAL INDICATION. IT WILL BE CONNECTED TO THE SIGNAL BODY AS AN EQUIPMENT GROUND IN ALUMINUM HEADS AND IT WILL BE UNUSED IN PLASTIC HEADS. UNUSED CONDUCTORS SHALL BE GROUNDED IN THE CABINET. TYPICAL USE OF CONDUCTORS IS AS FOLLOWS:

GROUNDING AND BONDING (CONT.)

COND. NO.	COLOR	VEHICLE SIGNAL	PEDESTRIAN SIGNAL
1	BLACK	GREEN BALL	#1 WALK
2	WHITE	AC NEUTRAL	AC NEUTRAL
3	RED	RED BALL	#1 DW/FDW
4	GREEN	EQUIPMENT GROUND	EQUIPMENT GROUND
5	ORANGE	YELLOW BALL	#2 DW/FDW
6	BLUE	GREEN ARROW	#2 WALK
7	WHITE/BLACK STRIPE	YELLOW ARROW	NOT USED

6. POWER SERVICE AND DISCONNECT SWITCH.

   A. AT THE POWER SERVICE LOCATION, THE GROUNDING CONDUCTOR (GROUND WIRE) FROM THE DISCONNECT SWITCH NEUTRAL (AC-) BAR TO THE GROUND ROD SHALL BE A CONTINUOUS, UNSPLICED CONDUCTOR. IF SPLICED, IT SHALL BE AN EXOTHERMIC WELD BUTT SPLICE.

   B. THE SERVICE NEUTRAL (AC-) SHALL ONLY BE CONNECTED TO GROUND AT THE PRIMARY POWER SERVICE DISCONNECT SWITCH.

      I. NEMA CONTROLLER CABINETS: IF A POWER SERVICE DISCONNECT SWITCH IS LOCATED BEFORE THE CONTROLLER CABINET, THE NEUTRAL (AC-) AND THE GROUNDING BARS IN THE CONTROLLER CABINET SHALL NOT BE CONNECTED TOGETHER AS SHOWN IN NEMA TS-2, FIGURE 5-4.

      II. IF SECONDARY DISCONNECT SWITCHES ARE CONNECTED AFTER THE PRIMARY DISCONNECT SWITCH, THE NEUTRAL (AC-) SHALL ONLY BE GROUNDED AT THE PRIMARY SWITCH. EQUIPMENT GROUNDING CONDUCTORS SHALL BE BROUGHT TO THE PRIMARY SWITCH, BUT SHALL BE GROUNDED AT BOTH SECONDARY AND PRIMARY SWITCHES.

7. PAYMENT - ALL MATERIALS AND WORK REQUIRED TO COMPLETE THE EFFECTIVE GROUND FAULT CURRENT PATH SYSTEM ARE INCIDENTAL TO THE CONDUCTORS INSTALLED BY CONTRACT.

GUARANTEE

THE CONTRACTOR SHALL GUARANTEE THAT THE TRAFFIC CONTROL SYSTEM INSTALLED AS PART OF THIS CONTRACT SHALL OPERATE SATISFACTORILY FOR A PERIOD OF 120 DAYS FOLLOWING COMPLETION OF THE 10-DAY PERFORMANCE TEST. IN THE EVENT OF UNSATISFACTORY OPERATION, THE CONTRACTOR SHALL CORRECT FAULTY INSTALLATIONS, MAKE REPAIRS AND REPLACE DEFECTIVE PARTS WITH NEW PARTS OF EQUAL OR BETTER QUALITY.

EQUIPMENT, MATERIAL AND LABOR COSTS INCURRED IN CORRECTING AN UNSATISFACTORY OPERATION SHALL BE BORNE BY THE CONTRACTOR.

THE GUARANTEE SHALL COVER THE FOLLOWING ITEMS OF THE TRAFFIC CONTROL SYSTEM: CONTROLLER, CABINET, UNINTERRUPTIBLE POWER SUPPLY, VEHICLE DETECTION EQUIPMENT, LED LAMP UNIT, NETWORK AND COMMUNICATION/ INTERCONNECT EQUIPMENT.

CUSTOMARY MANUFACTURER'S GUARANTEES FOR THE FOREGOING ITEMS SHALL BE TURNED OVER TO THE STATE OR THE MAINTAINING AGENCY FOLLOWING ACCEPTANCE OF THE EQUIPMENT.

THE COST OF GUARANTEEING THE TRAFFIC CONTROL SYSTEM WILL BE INCIDENTAL TO AND INCLUDED IN THE CONTRACT UNIT PRICE OF THE VARIOUS ITEMS MAKING UP THE SYSTEM.

TRAFFIC SIGNALS - GENERAL NOTES

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(513) 771-8828

DESIGNER AFS
REVIEWER ALH 11-02-22
PROJECT ID 112121
SHEET 388 TOTAL 436

WORK INSPECTION

THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER AND DISTRICT TRAFFIC ENGINEER WITH 72-HOUR NOTICE OF ANY SIGNAL WORK TO BE PERFORMED AT THE INTERSECTION SITE(S) SO THAT INSPECTION SERVICES CAN BE SUPPLIED.

SIGNAL ACTIVATION

PRIOR TO ACTIVATING THE NEW TRAFFIC SIGNAL TO STOP-AND-GO MODE AND/OR REMOVING THE EXISTING TRAFFIC SIGNAL FROM SERVICE, ALL ITEMS IN THE PROPOSED SIGNAL PLAN SHALL BE FULLY COMPLETED, (I.E., VEHICLE DETECTION, PEDESTRIAN SIGNAL HEADS, ETC). IF THERE ARE CONSTRUCTABILITY ISSUES (I.E., ROADWAY WIDENING, ETC.) THAT PREVENT THE SIGNAL FROM BEING COMPLETED PRIOR TO ACTIVATION, IT SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER AND DISTRICT TRAFFIC ENGINEER. THE DISTRICT TRAFFIC ENGINEER WILL THEN REVIEW, APPROVE OR REJECT PROPOSALS TO ACTIVATE THE TRAFFIC SIGNAL PRIOR TO COMPLETION.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND DISTRICT TRAFFIC ENGINEER AT LEAST 10 WORKING DAYS PRIOR TO SCHEDULING THE FINAL INSPECTION OF THE SIGNAL INSTALLATION. FINAL INSPECTION IS NOT CONSIDERED COMPLETE UNTIL DESIGNATED DISTRICT TRAFFIC PERSONNEL INSPECT THE TRAFFIC SIGNAL AND ISSUE WRITTEN APPROVAL. IF ISSUES ARE FOUND DURING THE FINAL INSPECTION THAT EFFECT THE SAFETY OF THE TRAVELING PUBLIC AND/OR THE EFFICIENCY OF THE INTERSECTION, THE SIGNAL SHALL NOT BE ACTIVATED ON THE PROPOSED DATE. ANY PUNCH LIST ITEMS THAT ARE FOUND SHALL BE CORRECTED AND REINSPECTED BY DISTRICT TRAFFIC PERSONNEL PRIOR TO FINAL ACCEPTANCE. ODOT FORCES SHALL ONLY ASSUME DAY TO DAY MAINTENANCE OF THE TRAFFIC SIGNAL AFTER FINAL WRITTEN ACCEPTANCE HAS BEEN ISSUED.

DETECTION MAINTENANCE

IF VEHICLE DETECTION BECOMES UNEXPECTEDLY DISABLED, REQUIRES MODIFICATION, OR IS SCHEDULED TO BE TEMPORARILY REMOVED DURING THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER AND DISTRICT TRAFFIC ENGINEER.

IF THE LOSS OF VEHICLE DETECTION IS KNOWN PRIOR TO THE START OF CONSTRUCTION, IT SHALL BE DISCUSSED AT THE PRECONSTRUCTION MEETING. AT SUCH TIME, THE DISTRICT TRAFFIC ENGINEER SHALL ADVISE THE PROJECT ENGINEER AND CONTRACTOR ON THE APPROPRIATE ACTION TO RECTIFY ANY LOSS OF VEHICLE DETECTION. THIS MAY INCLUDE PLACING THE TRAFFIC SIGNAL ON MINIMUM OR MAXIMUM RECALL, MODIFYING THE MINIMUM GREEN TIMES, AND REMOVING THE MALFUNCTIONING DETECTION FROM SERVICE. WHERE NON-INTRUSIVE DETECTION (I.E. VIDEO, RADAR) ALREADY EXISTS, THE CONTRACTOR SHALL INSURE THAT DETECTION IS OPERATING AND MAINTAINED BY RECONFIGURING THE DETECTION UNITS ACCORDINGLY DURING ALL CONSTRUCTION PHASES. THIS IS TO AVOID THE SIGNAL FROM MAXING OUT THE EFFECTED SIGNAL PHASE AND CREATING UNNECESSARY DELAYS.

LOCATIONS WHERE NON-INTRUSIVE DETECTION IS PROPOSED AND THE EXISTING VEHICLE DETECTION IS TO BE ABANDON, THE NON-INTRUSIVE VEHICLE DETECTION SHALL BE INSTALLED, CONFIGURED AND MADE FULLY FUNCTIONAL PRIOR TO THE EXISTING DETECTION BEING DISABLED. THE CONTRACTOR SHALL CONTINUE TO MAINTAIN AND MODIFY THE DETECTION UNTIL FINAL ACCEPTANCE OF THE TRAFFIC SIGNAL. THIS IS TO ENSURE VEHICLE DETECTION REMAINS FULLY FUNCTIONAL THROUGHOUT CONSTRUCTION.

POWER SUPPLY FOR TRAFFIC SIGNALS

ELECTRIC POWER SHALL BE OBTAINED FROM THE SERVICE POLE AT THE LOCATION INDICATED ON THE PLANS. POWER SUPPLIED SHALL BE 120/240 VOLTS AND 3-WIRE.

632 REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN

TRAFFIC SIGNAL INSTALLATIONS, INCLUDING SIGNAL HEADS, CABLE, MESSENGER WIRE, STRAIN POLES, CABINET, CONTROLLER, ETC., SHALL BE REMOVED IN ACCORDANCE WITH C&MS 632.26 AND AS INDICATED ON THE PLANS. REMOVED ITEMS SHALL BE REUSED AS PART OF A NEW INSTALLATION ON THE PROJECT OR STORED ON THE PROJECT FOR SALVAGE BY ODOT IN ACCORDANCE WITH THE LISTING GIVEN HEREIN.

TO BE STORED: RADARS, CABINETS (WITH ALL CONTENTS), CONTROLLERS, AND UNINTERRUPTIBLE POWER SUPPLIES (UPS).

REMOVED ITEMS SHALL BE DELIVERED TO THE NEAREST ODOT FACILITY WHOSE ADDRESS IS LISTED BELOW:

ODOT DISTRICT 8, JIM JUDD:(513)-933-6692

505 OH-741
LEBANON, OH 45439

IN THE EVENT THE ITEMS STORED ON THE PROJECT FOR SALVAGE BY THE LOCAL AGENCY ARE NOT REMOVED, THE CONTRACTOR SHALL, WHEN DIRECTED BY THE ENGINEER IN WRITING, REMOVE AND DISPOSE OF THE ITEMS AT NO ADDITIONAL COST TO THE PROJECT.

632 SIGNAL SUPPORT FOUNDATION

PRIOR TO ORDERING THE SIGNAL SUPPORTS, THE CONTRACTOR SHALL CONTACT OUPS TO HAVE ALL THE UTILITIES LOCATED IN THE FIELD. THEN, THE CONTRACTOR SHALL MEET THE PROJECT ENGINEER TO LOCATE THE PROPOSED SUPPORT LOCATIONS TO INSURE THERE ARE NO CONFLICTS WITH UTILITIES. IF THERE ARE ISSUES, THE PROJECT ENGINEER SHALL PROVIDE GUIDANCE AS TO THE RELOCATION OF THE SUPPORTS.

DUE TO THE FURTHER POSSIBILITY OF CONFLICT WITH EXISTING OR PROPOSED UNDERGROUND OBSTRUCTIONS (INCLUDING THE POSSIBILITY OF UNRECORDED OBSTRUCTIONS) WHICH COULD AFFECT THE LOCATION OF THE FOUNDATION FOR THIS ITEM, AND CONSEQUENTLY, THE DESIGN OF THE SUPPORT AND/OR ARMS, THE CONTRACTOR SHALL NOT PLACE FINAL ORDERS FOR THE ITEM UNTIL THE FOUNDATIONS HAVE BEEN INSTALLED, AT FINAL GRADE, AND THE CONTRACTOR HAS RECEIVED, FROM ENGINEER, WRITTEN NOTICE TO PROCEED WITH THE ORDERS FOR THE ITEM.

IF ANY FOUNDATION LOCATIONS MUST BE ADJUSTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND MAINTAINING AGENCY, WHO WILL DETERMINE THE REVISED LOCATION AND IF NEEDED, THE SUPPORT DESIGN. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR DETERMINING THE REVISED DESIGN. THE ENGINEER WILL INFORM THE CONTRACTOR OF ANY CHANGES NECESSARY AND AUTHORIZE THE CONTRACTOR TO ORDER THE SUPPORT.

THE CONTRACTOR SHALL, WHEN DEVELOPING THE PROGRESS SCHEDULE, AND THOSE OF SUBCONTRACTORS, ENSURE THAT THE FOUNDATIONS ARE INSTALLED AT THE EARLIEST TIME AS IS FEASIBLE AND PRACTICAL, AND SHALL INCLUDE SUFFICIENT TIME IN THE PROGRESS SCHEDULE FOR ORDERING, MANUFACTURING, DELIVERY, AND INSTALLATION OF THE SUPPORT ITEMS AFTER THE FOUNDATIONS ARE IN PLACE.

NO PAYMENTS FOR DELIVERED MATERIALS FOR THE FOUNDATION OR SUPPORT ITEMS SHALL BE MADE UNTIL THE FOUNDATIONS ARE IN PLACE, AND IF CHANGES IN THE DESIGN OF THIS ITEM ARE REQUIRED, NO PAYMENT SHALL BE MADE FOR THE ITEMS MANUFACTURED TO THE ORIGINAL DESIGN.

632 SIGNAL SUPPORT FOUNDATION (CONT.)

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE AND WILL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND OTHER INCIDENTALS NECESSARY FOR EACH SUPPORT FURNISHED, IN PLACE, COMPLETE AND ACCEPTED.

633 UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF C&MS 633 AND 733, POLE ATTACHMENT HARDWARE WILL BE INCLUDED FOR POLE-MOUNTED CABINETS, AND A CABINET RISER (8-INCH MINIMUM) AND ANCHOR BOLTS WILL BE PROVIDED FOR BASE-MOUNTED CABINETS. BEFORE PERFORMING THE WORK, THE CONTRACTOR, THE DISTRICT TRAFFIC ENGINEER AND THE PROJECT ENGINEER WILL PERFORM A SITE INSPECTION TO ESTABLISH THE LOCATION OF THE UPS CABINET AND FOUNDATION.

THE UPS CABINET SHALL INCLUDE A GENERATOR POWER PANEL WITH A HEAVY-DUTY POWER RELAY VERSUS THE LINE VOLTAGE GENERATOR SWITCH. THE GENERATOR INLET SHALL BE A RECESSED PANEL WITH A DOOR THAT IS FLUSH WITH THE EXTERNAL SIDE OF THE UPS CABINET. IT SHALL INCLUDE A RECESSED PLUG, AUTOMATIC TRANSFER SWITCH AND A DOOR THAT SECURELY CLOSES OVER THE POWER CORD.

THE CABINET SHALL HAVE A DOOR STOP MECHANISM AND THERMOSTATICALLY CONTROLLED FAN.

THE CABINET SHALL INCLUDE A BATTERY BALANCING DEVICE THAT REGULATES THE BATTERIES AND OPTIMIZES PERFORMANCE. PRODUCT SUPPLIED SHALL BE FROM ALPHA TECHNOLOGIES PER THE ODOT TAP LIST.

AFTER FOUR (4) HOURS OF BATTERY RUNTIME, THE SYSTEM SHALL BE PROGRAMMED TO SWITCH THE INTERSECTION FROM FULL OPERATION TO CONTROLLER AUTOMATIC FLASH OPERATION THROUGH THE MONITOR. THE CONTROLLER SHALL BE PROGRAMMED SO THAT FLASH OPERATION SHALL BEGIN ONCE THE INTERSECTION RUNS MINOR STREET GREEN (TYP. PH. 4 &8), ALL-RED CLEARANCE, AND THEN FLASH OPERATION.

THE UPS OUTPUT NOTIFICATIONS FOR ON BATTERY, BATTERY 2-HOUR TIMER, AND LOW BATTERY SHALL BE WIRED INTO THE TRAFFIC SIGNAL CABINET BACK PANEL OR THROUGH THE CONTROLLER WITH A C11 TO PROVIDE SPECIAL STATUS ALARMS FOR EACH OUTPUT INTO THE SIGNAL CONTROLLER.

THIS ITEM SHALL INCLUDE A RED LED STATUS INDICATOR LAMP TO ALLOW MAINTENANCE PERSONNEL AND LAW ENFORCEMENT TO QUICKLY ASSESS WHETHER A TRAFFIC SIGNAL CABINET IS BEING POWERED BY A UPS. THE LED HOUSING SHALL BE NEMA 4X, IP65 OR IP66, RATED FOR OUTDOOR USE AND BE TAMPER/SHATTER RESISTANT. IT SHALL BE A DOMED ENCLOSURE CONTAINING A RED LENS WITH LED THAT IS VISIBLE FROM 100 FOOT MINIMUM. THE ENCLOSURE AND LED MODULE SHOULD BE PLACED ON THE SIDE OF THE UPS CABINET FACING TOWARDS THE MAINLINE ROADWAY AND SEALED FROM WATER INTRUSION. IT SHOULD BE WIRED USING MINIMUM 20GA STRANDED, INSULATED HOOKUP WIRE TO THE STATUS RELAY OUTPUTS OF THE UPS. THE WIRES SHALL BE TERMINATED BY LUGS AT THE DISPLAY END AND PERMANENTLY LABELED "BACKUP POWER STATUS DISPLAY," WITH WIRE POLARITY INDICATED. THE RED LED SHALL ONLY ILLUMINATE TO INDICATE THE CABINET IS OPERATING UNDER UPS BACKUP POWER (THE "BACKUP" OPERATING CONDITION). THIS ITEM INCLUDES PROGRAMMING THE UPS STATUS RELAY OUTPUTS TO PRODUCE THE LAMP STATUS DISPLAYS. THESE STATUS DISPLAYS WILL BE SOLID 100% DUTY CYCLE (NOT FLASHING) DISPLAYS. THE OPERATING VOLTAGE OF THE LED LAMP SHALL BE 120V AC UNLESS OTHERWISE INDICATED.

633 CABINET, TYPE 332, AS PER PLAN

THE CABINET SHALL BE FURNISHED AND INSTALLED ACCORDING TO CMS 633 AND 733, AND BE LISTED ON THE TRAFFIC AUTHORIZED PRODUCTS LIST (TAP).

THE CABINET SHALL BE FURNISHED WITH AN EDI MONITOR AS ALLOWED ON THE TAP/APPROVED PRODUCTS LIST. CABINET SHALL ALSO COME EQUIPPED WITH AN AUXILLARY OUTPUT FILE

THE CONTRACTOR SHALL NOT REASSIGN THE CABINET DETECTOR INPUTS IN ORDER TO REDUCE THE NUMBER OF 2-CHANNEL DETECTOR UNITS SUPPLIED AND SHALL USE THE STANDARD CALTRANS INPUT FILE DESIGNATIONS FOLLOWING PLAN INSERT SHEET 203324.

THE FLASHING YELLOW ARROW SHALL BE SET UP USING THE STANDARD CONFIGURATION OUTLINED IN THE EDI 2010CL OPERATIONS MANUAL REVISION. NOVEMBER 2014 SECTION 2.20.1. THIS CONFIGURATION UTILIZES AN AUXILIARY OUTPUT FILE TO DRIVE THE RED ARROW, YELLOW ARROW, AND FLASHING YELLOW OUTPUTS WHILE THE GREEN ARROW IS BEING DRIVEN BY A STANDARD PHASE OUTPUT. FOR INTERSECTIONS THAT ARE ALREADY USING AN AUXILIARY OUTPUT FILE FOR PHASE OVERLAPS, THE PHASE OVERLAPS CAN BE ADJUSTED TO ACCOMMODATE THE FLASHING YELLOW ARROW OUTPUTS.

PAYMENT FOR ITEM 633 CABINET, TYPE 332, AS PER PLAN WILL BE AT THE CONTRACT BID PRICE PER EACH COMPLETE AND IN PLACE INCLUDING ALL CONNECTIONS TESTED AND ACCEPTED.

ITEM 632 - POWER SERVICE, AS PER PLAN

POWER SERVICE SHALL BE AS PER SPECIFICATION 632 AND STANDARD CONSTRUCTION DRAWING TC-83.10 WITH THE FOLLOWING EXCEPTIONS:

1. THE METER BASE MOUNTING HEIGHT SHALL BE NO MORE THAN FIVE (5) FEET HIGH TO THE CENTER OF THE METER BASE FROM THE GROUND.

2. THE CONTRACTOR SHALL SUPPLY THE NECESSARY METER BASES.

3. ALL POWER SERVICES SHALL BE METERED. THE METER SHALL HAVE A LEVER OPERATED BYPASS.

4. THE POWER SERVICE BLIND HALF COUPLING SHALL BE TWENTY-SEVEN [27] INCHES ABOVE THE BOTTOM OF THE STRAIN POLE BASE PLATE AND SHALL BE WELDED TO THE STRAIN POLE.

5. CONDUIT FROM THE BOTTOM OF THE DISCONNECT SWITCH ENCLOSURE INTO THE BOTTOM OF THE CONTROLLER CABINET WILL NOT BE PERMITTED. POWER SERVICE WIRES FROM THE DISCONNECT SWITCH ENCLOSURE TO THE CONTROLLER CABINET SHALL BE ROUTED THROUGH THE STRAIN POLE.

6. IF INTERSECTION LIGHTING IS SPECIFIED THEN SEPARATE DISCONNECT SWITCHES SHALL BE INSTALLED AND LABELED “LIGHTING” AND “TRAFFIC SIGNAL” WITH A WEATHER PROOF STICKER. MARKER ON THE OUTSIDE OF THE ENCLOSURE IS NOT ACCEPTABLE.

7. THE CONTRACTOR SHALL FURNISH AND INSTALL AN ADDRESS STICKER WITH 4-INCH LETTERING TO THE CABINET. ADDRESS MUST BE VISIBLE FROM THE STREET.

DISCONNECT SWITCH ENCLOSURES FURNISHED SHALL INCLUDE A PADLOCK EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNON 660, WITH LOCK BODY OF BRONZE OR BRASS AND KEYING SHALL BE TO THE STATE MASTER.

TRAFFIC SIGNALS - GENERAL NOTES

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7288 Central Parke Blvd
Mason, OH 45246
(513) 771-8828

DESIGNER AFS
REVIEWER ALH 11-02-22
PROJECT ID 112121
SHEET 389 TOTAL 436

MODEL: BN002 Sheet PAPERSIZE: 17x11 (in.) DATE: 8/22/2023 TIME: 2:06:39 PM USER: EX-SantA
pw:\\ProjectWiseAMER.jacobs.com:DEN003\Documents\C6A18200 - SR 63 Reconstruction\Design\112121400-Engineering\Signals - TEC\Sheets\112121_BN001.dgn
112121_BN001.dgn

ITEM 632 - POWER SERVICE, AS PER PLAN (CONT.)

THE CONTRACTOR SHALL CONTACT THE METER SECTION OF THE POWER COMPANY FOR INFORMATION REGARDING THE METER BASE INSTALLATION PRIOR TO ORDERING POLES. THE CONTRACTOR WILL BE RESPONSIBLE FOR REQUESTING AND SCHEDULING ANY INSPECTIONS THE POWER COMPANY MAY REQUIRE FOR THE POWER SERVICE HOOK UP. THE CONTRACTOR SHALL CONTACT ODOT DISTRICT 8 TRAFFIC OPERATIONS TO OBTAIN THE POWER SERVICE ADDRESS TO BE USED FOR ON ALL INSPECTIONS. ONCE THE SIGNAL HAS PASSED INSPECTION, THE CONTRACTOR WILL NOTIFY THE PROJECT ENGINEER WHO WILL IN TURN NOTIFY ODOT DISTRICT 8 TRAFFIC OPERATIONS. ODOT DISTRICT 8 TRAFFIC OPERATIONS WILL THEN MAKE APPLICATION FOR POWER FROM THE UTILITY.

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR SPLICE POWER CABLE INTO THE POWER COMPANY'S CIRCUITS. THE VOLTAGE SUPPLIED SHALL BE NOMINALLY 120 VOLTS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS AND THE PAYING OF ALL FEES. THE EXISTING METER, IF APPLICABLE, IS THE PROPERTY OF THE POWER COMPANY AND SHALL NOT BE REMOVED BY THE CONTRACTOR. PRIOR TO THE EXISTING TRAFFIC SIGNAL REMOVAL, ODOT DISTRICT 8 TRAFFIC OPERATIONS WILL REQUEST THE REMOVAL OF THE METER AND CLOSURE OF THE ACCOUNT.

THE DEPARTMENT WILL MEASURE ITEM 632, POWER SERVICE, AS PER PLAN, BY THE NUMBER OF COMPLETE UNITS AND WILL INCLUDE: WEATHERHEAD, CONDUIT, FITTINGS, CLAMPS, AND OTHER NECESSARY HARDWARE, INSTALLATION OF METER BASE, GROUND WIRE CONNECTIONS, DISCONNECT SWITCH WITH ENCLOSURE, AND COORDINATION WORK WITH UTILITIES.

ANY ADDITIONAL CABLE OR WOOD POLES NECESSARY TO ESTABLISH A POWER SERVICE WITH THE UTILITY COMPANY SHALL BE COVERED UNDER THE PERTINENT PAY ITEMS.

ITEM 632 - COMBINATION SIGNAL SUPPORT (BY TYPE), AS PER PLAN

THIS ITEM SHALL CONFORM TO ITEM 632 - COMBINATION SIGNAL SUPPORT (BY TYPE) AND POLES SHALL BE GALVANIZED STEEL.

ITEM 632 - PEDESTAL. 10', TRANSFORMER BASE, AS PER PLAN

THIS ITEM SHALL CONFORM TO ITEM 632 - PEDESTAL, 10", TRANSFORMER BASE WITH THE EXCEPTION THAT PEDESTALS SHALL BE THE FOLLOWING FINISH BASED ON INTERSECTION:

MIAMI VALLEY GAMING- POWDER COAT BLACK
OH-741- GALVANIZED STEEL

ITEM 625 - PULL BOX, MISC.: REUSE OF EXISTING PULL BOX

THE CONTRACTOR SHALL TIE THE PROPOSED CONDUIT INTO THE EXISTING PULL BOX. THIS ITEM SHALL INCLUE ALL LABOR AND MATERIALS TO TIE CONDUIT INTO THE EXISTING PULL BOX.

ITEM 632 - REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM, CABINET

THIS ITEM SHALL INCLUDE ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO REMOVE THE SIGNAL CABINET. THIS ALSO INLCUDES REMOVAL OF ALL EXISITNG SIGNAL CABLES.

809 STOP-LINE RADAR DETECTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A WAVETRONIX SMARTSENSOR MATRIX DETECTION UNIT. THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING:

1. *POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.*
2. *ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.*
3. *THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM, AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER.*
4. *SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.*
5. *THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING AND SHALL PROVIDE ONSITE TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE UNIT.*
6. *A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MINIMUM 7 FEET).*
7. *THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG STYLE CONNECTIONS FOR UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.*
8. *THE CONTRACTOR SHALL INSTALL THE RADAR DETECTION PRIOR TO MILLING/DISABLING EXISTING LOOPS.*
9. *THE INSTALLATION SHALL INCLUDE ALL CONTROLLER PROGRAMMING FOR COMPLETE INSTALLATION, WHICH INCLUDES MODIFICATIONS FOR REMOVAL OF EXISTING DETECTION.*

PAYMENT FOR ITEM 809 STOP-LINE RADAR DETECTION, AS PER PLAN SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT AND CONNECTIONS TESTED AND ACCEPTED.

633 COMMUNICATION, AS PER PLAN

THIS ITEM SHALL BE FURNISHED AND INSTALLED AS PER CMS 633.15 AND BE LISTED ON THE TRAFFIC AUTHORIZED PRODUCTS (TAP) LIST.

THIS MODEM SHALL BE COMPATIBLE WITH THE CABINET AND CONTROLLER BEING INSTALLED. ANY MATERIALS, LABOR AND EQUIPMENT REQUIRED TO FURNISH A FUNCTIONING CELLUAR MODEM SHALL BE INCIDENTAL TO THE COST OF THIS ITEM.

809 ADVANCE RADAR DETECTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A WAVETRONIX SMARTSENSOR ADVANCE DETECTION UNIT (MODEL SS-200E). THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING:

1. *POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.*
2. *ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.*
3. *THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM, AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER.*
4. *SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.*
5. *THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING AND SHALL PROVIDE ONSITE TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE UNIT.*
6. *A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MINIMUM 7 FEET).*
7. *THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG STYLE CONNECTIONS FOR UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.*
8. *THE CONTRACTOR SHALL INSTALL THE RADAR DETECTION PRIOR TO MILLING/DISABLING EXISTING LOOPS.*
9. *THE INSTALLATION SHALL INCLUDE ALL CONTROLLER PROGRAMMING FOR COMPLETE INSTALLATION, WHICH INCLUDES MODIFICATIONS FOR REMOVAL OF EXISTING DETECTION.*

PAYMENT FOR ITEM 809 ADVANCE RADAR DETECTION, AS PER PLAN SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT, CONNECTIONS TESTED AND ACCEPTED, AND ANY OTHER NECESSARY HARDWARE TO ESTABLISH A FULLY FUNCTIONAL DETECTION SYSTEM.

809 ATC CONTROLLER, AS PER PLAN (PROGRAM AND INSTALL ONLY)

ALL REQUIREMENTS OF SS 809 SHALL BE FOLLOWED, ALONG WITH THE ADDITIONAL DESCRIPTION AS STATED BELOW. THE ATC CONTROLLER WILL BE PROVIDED BY THE DISTRICT WITHOUT PROGRAMMING. IN THE CASE OF A 332/336 CABINET TYPE, THE CONTROLLER WILL BE PROVIDED WITH THE POWER CORD.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROGRAMMING THE CONTROLLER TO THE PROPOSED CONDITIONS ACCORDING TO THE PLANS. ODOT WILL NOT BE RESPONSIBLE FOR THE PROGRAMMING.

THE CONTROLLER SHALL BE LISTED ON THE TAP AND BE AN ECONOLITE COBALT RACKMOUNT AND COMPATIBLE WITH THE CABINET TYPE BEING INSTALLED.

809 ATC CONTROLLER, AS PER PLAN (PROGRAM AND INSTALL ONLY) (CONT.)

EXISTING TIMING WILL BE PROVIDED TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROGRAMMING THE CONTROLLER TIME OF DAY SCHEDULES AND COORDINATED TIMING AS PROVIDED.

PAYMENT SHALL BE MADE ONCE THE CONTROLLER IS PROGRAMMED, INSTALLED, TESTED, FUNCTIONING ACCORDING TO THE PLANS, AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS TO COMPLETE THE WORK.

625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE ODOT C&MS, CONVENTIONAL LUMINAIRES INSTALLED ON THIS PROJECT SHALL BE AS FOLLOWS:

THE PROVIDED LUMINAIRES SHALL BE:

1. *AUTOBAHN ATBM AS MANUFACTURED BY AMERICAN ELECTRIC LIGHTING (CATALOG #:ATBM-P70-MVOLT-R5-4B-3K-BK).*
2. *EVOLVE ERL2 AS MANUFACTURED BY GE LIGHTING (CATALOG #: ERL2-0-23-C3-30-BLCK).*
3. *AN APPROVED EQUAL LUMINAIRES SHALL BE BETWEEN 20000-22000 LUMENS, BE 120 VOLTS, HAVE A TYPE III DISTRIBUTION, AND HAVE A COLOR TEMPERATURE OF 3000K.*

ANY SUBMITTED EQUALS SHALL INCLUDE A FULL PHOTOMETRIC REPORT DETAILING THAT THE CHOSEN LUMINAIRE MEETS THE PHOTOMETRIC DESIGN CRITERIA OF THE INTERSECTION. THE CRITERIA TO BE MET INCLUDES ADHERING TO A 1.7 FC TO 1.9 FC AVERAGE AND A LESS THAN 3:1 ILLUMINANCE UNIFORMITY.

THE LUMINAIRES SUPPLIED SHALL INCLUDE ALL NECESSARY ADAPTERS TO FIT THE LIGHTING BRACKET ARMS.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID FOR "ITEM 625 - LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN" FOR EACH LUMINAIRE INCLUDING LAMP AND HARDWARE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

824 SYSTEM ANALYSIS

THIS ITEM SHALL FOLLOW ALL REQUIREMENTS OF SS 824 AND INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO MEET THE FOLLOWING PROVISIONS:

-OH-63 & MIAMI VALLEY GAMING SHALL MAINTAIN COORDINATION WITH THE SYSTEM TO THE WEST OF THE PROJECT AREA.

-SYSTEM ANALYSIS SHOULD EVALUATE IF THE SIGNALS SHOULD RUN AS A COORDINATED CORRIDOR AND SHOULD REVIEW AND REVISE ALL LOCAL TIMING SETTINGS.

CCTV INSTALLATION

THE CONTRACTOR SHALL FURNISH AND INSTALL THIS ITEM ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809, AS WELL AS ANY STANDARD CONSTRUCTION DRAWINGS NOTED ON THE PLANS.

TRAFFIC SIGNALS - GENERAL NOTES

DESIGN AGENCY
TEC ENGINEERING, INC.
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Mason, OH 45246
(513) 771-8828

DESIGNER AFS
REVIEWER ALH 11-02-22
PROJECT ID 112121
SHEET 390 TOTAL 436

MODEL: BN003 Sheet PAPERSIZE: 17x11 (in.) DATE: 8/23/2023 TIME: 2:14:03 PM USER: asant
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SHEET NUM.									PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
394	397	400														
															TRAFFIC SIGNALS	
	8	8									625	00450	16	EACH	CONNECTION, FUSED PULL APART	
	4	4									625	00460	8	EACH	CONNECTION, UNFUSED PULL APART	
	1	2									625	18300	3	EACH	BRACKET ARM, 18'	
	1	2									625	18400	3	EACH	BRACKET ARM, 20'	
	1										625	18500	1	EACH	BRACKET ARM, 25'	
	1										625	18510	1	EACH	BRACKET ARM, 30'	
	2,112	1,642									625	23304	3,754	FT	NO. 8 AWG 600 VOLT DISTRIBUTION CABLE	
	462	636									625	23400	1,098	FT	NO. 10 AWG POLE AND BRACKET CABLE	
69	36	60									625	25104	165	FT	CONDUIT, 1", 725.051	
5		99									625	25408	104	FT	CONDUIT, 2", 725.051	
	70	24									625	25504	94	FT	CONDUIT, 3", 725.051	
44	20	98									625	25604	162	FT	CONDUIT, 4", 725.051	
277	1,020	1,168									625	25908	2,465	FT	CONDUIT, JACKED OR DRILLED, 725.052, 4"	
	4	4									625	26253	8	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, WITH PHOTCELL	390
118	172	241									625	29002	531	FT	TRENCH, 24" DEEP	
3	5	5									625	30706	13	EACH	PULL BOX, 725.08, 24"	
2											625	31600	2	EACH	PULL BOX, MISC.: REUSE OF EXISTING PULL BOX	390
3	6	8									625	32000	17	EACH	GROUND ROD	
	8	12									630	79200	20	EACH	SIGN ATTACHMENT ASSEMBLY, MAST ARM	
1	8	8									630	79500	17	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
	110	126									630	80100	236	SF	SIGN, FLAT SHEET	
2	10	10									632	05006	22	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	
		3									632	05064	3	EACH	VEHICULAR SIGNAL HEAD, (LED), 4-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	
	4	4									632	05086	8	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	
2	14	17									632	25000	33	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
1,896	3,155	5,180									632	40700	10,231	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
	4	4									632	64010	8	EACH	SIGNAL SUPPORT FOUNDATION	
1		3									632	64020	4	EACH	PEDESTAL FOUNDATION	
109	370	103									632	67300	582	FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG	
1	1	1									632	70001	3	EACH	POWER SERVICE, AS PER PLAN	389
	1	1									632	70200	2	EACH	CONDUIT RISER, 1" DIAMETER	
	4	4									632	79151	8	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN	390
1		3									632	89905	4	EACH	PEDESTAL, 10', TRANSFORMER BASE, AS PER PLAN	390
1											632	90020	1	EACH	REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM, CABINET	
		1									632	90101	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	389
1	1	1									633	65521	3	EACH	CABINET, TYPE 332, AS PER PLAN	389
1	1	1									633	67100	3	EACH	CABINET FOUNDATION	
1	1	1									633	67200	3	EACH	CONTROLLER WORK PAD	
1	1	1									633	68511	3	EACH	COMMUNICATIONS, AS PER PLAN	390
1	1	1									633	75001	3	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	389
1	1	1									809	60000	3	EACH	CCTV IP-CAMERA SYSTEM, DOME-TYPE	
	2	4									809	69001	6	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	390
	4	4									809	69101	8	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	390
1	1	1									809	69123	3	EACH	ATC V6.24 CONTROLLER, AS PER PLAN, (PROGRAM & INSTALL ONLY)	390
											824	00011	LS		SYSTEM ANALYSIS, AS PER PLAN	390

TRAFFIC SIGNALS - SUBSUMMARY

DESIGN AGENCY

TEC ENGINEERING, INC.
7288 Central Parke Blvd
Mason, OH 45246
(513) 771-8828

DESIGNER: AFS

REVIEWER: ALH 11-02-22

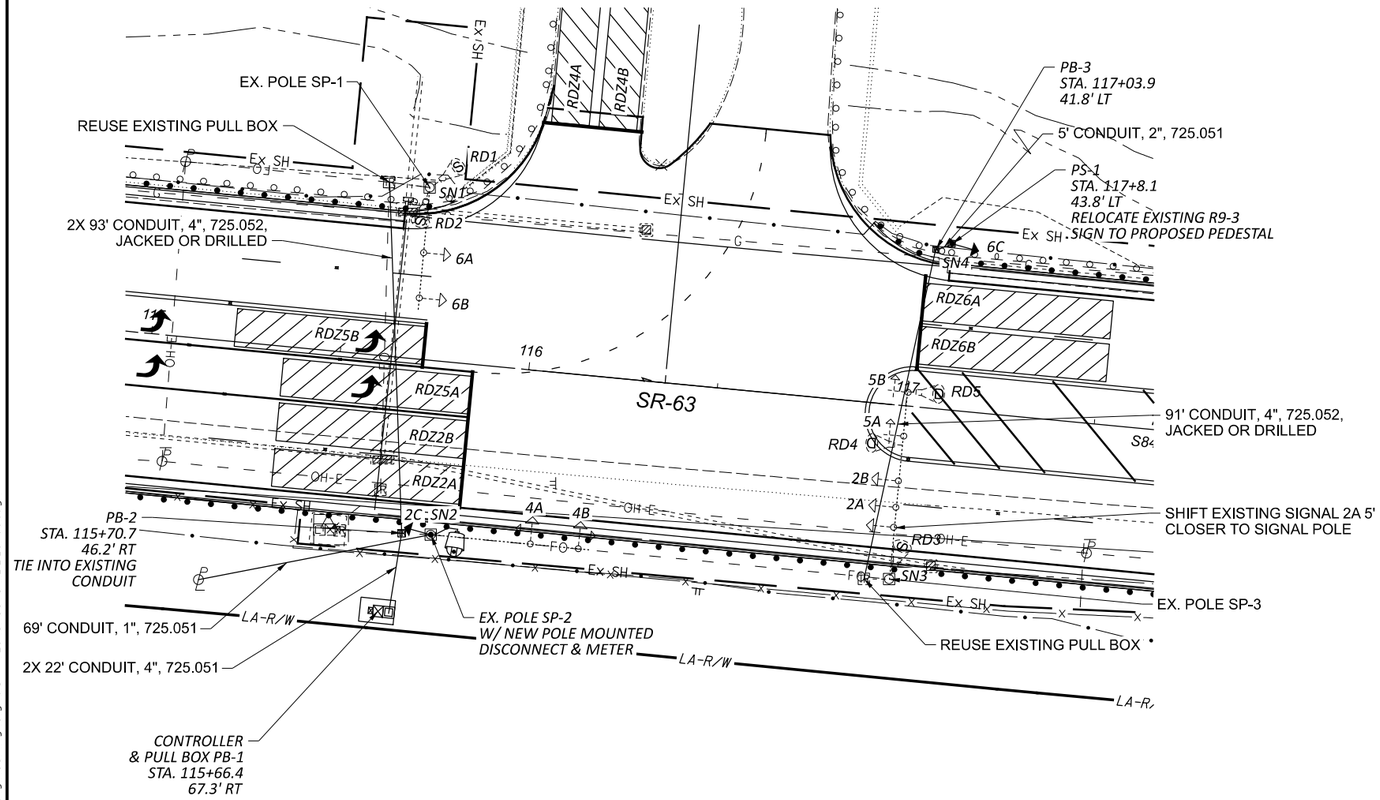
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SHEET 391 TOTAL 436

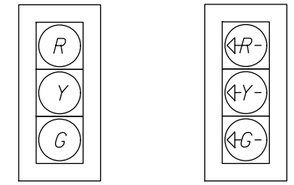
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MIAMI VALLEY GAMING ENTRANCE

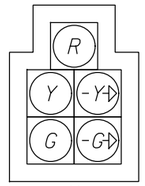


EXISTING SIGNALS

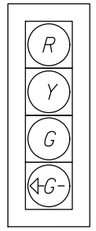


2B, 2C, 6A, 6B, 6C

5A, 5B

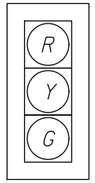


4A



4B

EXISTING SIGNALS (TO BE MOVED)



2A

EXISTING SIGNS



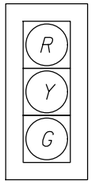
R9-3-30
SN1, SN2, SN3

EXISTING SIGNS (TO BE RELOCATED)



R9-3-30
SN4

PROPOSED SIGNALS



2C, 6C

PULLBOX TABLE

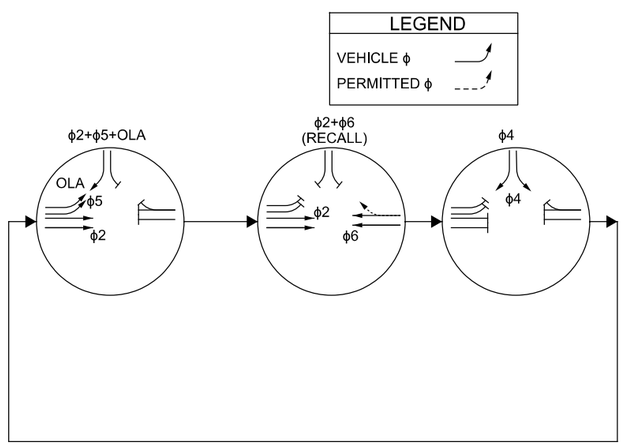
PULLBOX #	STATION	SIDE	OFFSET(FT.)	SIZE (IN.)
PB-1	115+66.4	LEFT	67.3	24
PB-2	115+76.0	RIGHT	50.0	24
PB-3	117+09.9	LEFT	41.8	18

RADAR DETECTION CHART

DETECTION ZONE	MOVEMENT	WIDTH (FT)	ASSOCIATED PHASE	DETECTOR NUMBER	DELAY IN CONTROLLER (SEC)	DELAY INHIBIT PHASE	PURPOSE	DETECTION ZONE LENGTH (FT)
RDZ2A	EB	10	ϕ2	RD2	-	-	STOP LINE	50
RDZ2B	EB	10	ϕ2	RD2	-	-	STOP LINE	50
RDZ2C	EB	10	ϕ2	RD4	-	-	ADVANCED	200
RDZ2D	EB	10	ϕ2	RD4	-	-	ADVANCED	200
RDZ4A	SB	10	ϕ4	RD1	5	-	STOP LINE	50
RDZ4B	SB	10	ϕ4	RD1	-	-	STOP LINE	50
RDZ5A	EBLT	10	ϕ5	RD2	-	-	STOP LINE	50
RDZ5B	EBLT	10	ϕ5	RD2	-	-	STOP LINE	50
RDZ6A	WB	10	ϕ6	RD3	-	-	STOP LINE	50
RDZ6B	WB	10	ϕ6	RD3	-	-	STOP LINE	50
RDZ6C	WB	10	ϕ6	RD5	-	-	ADVANCED	200
RDZ6D	WB	10	ϕ6	RD5	-	-	ADVANCED	200

*ADVANCED DILEMMA ZONE SPEED THRESHOLD PURPOSE=STOP LINE OR ADVANCED ≥35 MPH
*ADVANCED DETECTION ZONE NOT SHOWN IN PLANS

PHASING DIAGRAM



LEGEND

	PROP	EXIST
TRAFFIC SIGNAL, 3 UNIT HEAD, 12"		
TRAFFIC SIGNAL, 4 OR 5 UNIT HEAD, 12"		
TRAFFIC SIGNAL, 3 UNIT HEAD, 12", WITH ARROWS		
SIGNAL SUPPORT POLE		
TRAFFIC PULL BOX	TS	TS
CONTROLLER CABINET AND WORK PAD		
REGULATORY SIGNAGE, MAST ARM MOUNTED		
PTZ CAMERA		

HORIZONTAL SCALE IN FEET
0 10 20 40

SR-63 AND MIAMI VALLEY GAMING ENTRANCE SIGNAL PLANS

DESIGN AGENCY
TEC ENGINEERING, INC.
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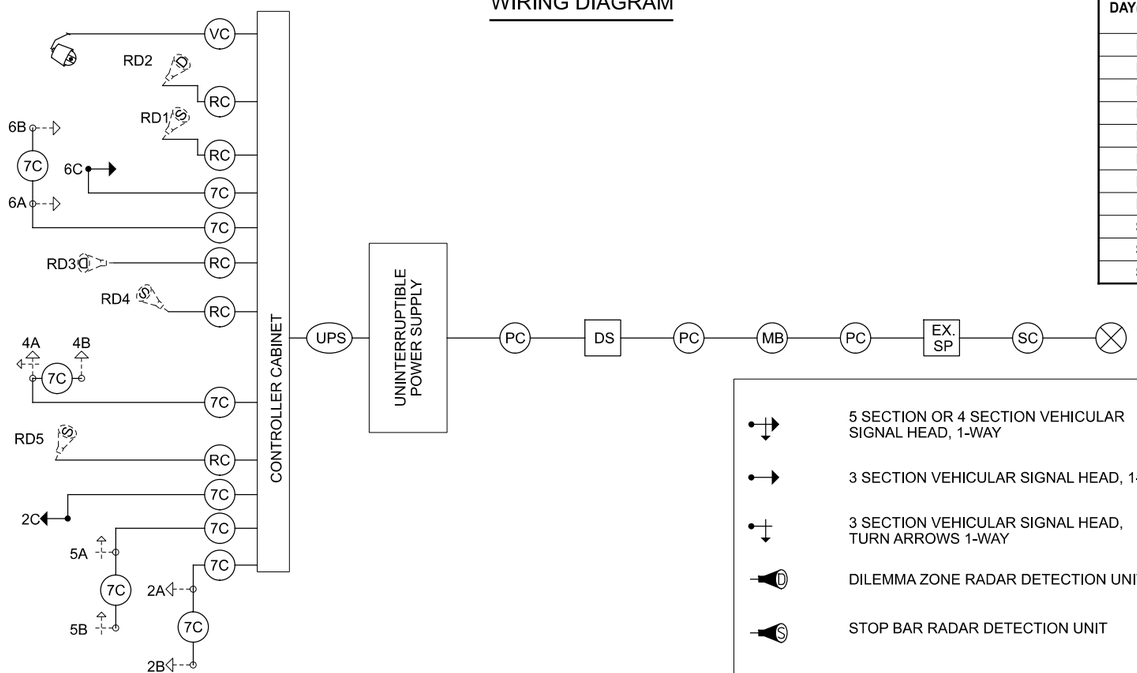
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SIGNAL TIMING CHART

INTERSECTION: OH-63 & MAIMI VALLEY GAMING MAINTAINING AGENCY: THE OHIO DEPARTMENT OF TRANSPORTATION									
START UP START IN: ALL-RED FLASH TIME FOR FLASH OR ALL RED: 6 FIRST PHASE(S): 2&6 COLOR DISPLAYED: GREEN			DUAL ENTRY: YES		PHASES: 2&6				
			REST IN RED:		RING 1 -			RING 2 -	
			OVERLAP				A	B	C	D
			PHASES				5	-	-	-
INTERVAL OR FEATURE			CONTROLLER MOVEMENT NO.							
INTERSECTION MOVEMENT (PHASE)			1	2	3	4	5	6	7	8
DIRECTION			-	EB	-	SB	EBLT	WB	-	-
MINIMUM GREEN (INITIAL)		(SEC.)	-	20	-	10	7	20	-	-
ADDED INITIAL		*(SEC./ACTUATION)	-	-	-	-	-	-	-	-
MAXIMUM INITIAL		(SEC.)	-	-	-	-	-	-	-	-
PASSAGE TIME (PRESET GAP)		(SEC.)	-	3	-	3	3	3	-	-
TIME BEFORE REDUCTION		*(SEC.)	-	-	-	-	-	-	-	-
MINIMUM GAP		*(SEC.)	-	-	-	-	-	-	-	-
TIME TO REDUCE		*(SEC.)	-	-	-	-	-	-	-	-
MAXIMUM GREEN I		(SEC.)	-	60	-	25	30	60	-	-
MAXIMUM GREEN II		(SEC.)	-	-	-	-	-	-	-	-
YELLOW CHANGE		(SEC.)	-	5.5	-	4	5.5	5.5	-	-
ALL RED CLEARANCE		(SEC.)	-	2	-	3	2.0	2	-	-
WALK		(SEC.)	-	-	-	-	-	-	-	-
PEDESTRIAN CLEARANCE		(SEC.)	-	-	-	-	-	-	-	-
RECALL	MAXIMUM	(ON/OFF)	-	OFF	OFF	OFF	OFF	OFF	-	-
	MINIMUM	(ON/OFF)	-	ON	-	-	-	ON	-	-
	PEDESTRIAN	(ON/OFF)	-	-	-	-	-	-	-	-
MEMORY		(ON/OFF)	-	-	-	-	-	-	-	-

*VOLUME DENSITY CONTROLS

WIRING DIAGRAM



ALL EXISTING SIGNAL HEADS SHOULD BE WIRED TO NEW CABINET WITH NEW SIGNAL CABLE

FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
EB (2A,2B, 2C)	R	ϕ2 R	R
	Y	ϕ2 Y	
	G	ϕ2 G	
SBRT (4A)	R	ϕ4 R	R
	Y	ϕ4 Y	
	G	ϕ4 G	
	—Y→	OLA	
	—G→	OLA	
SBLT (4B)	R	ϕ4 R	R
	Y	ϕ4 Y	
	G	ϕ4 G	
LS = LOAD SWTICH			

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
EBLT (5A, 5B)	←R—	ϕ5 R	R
	←Y—	ϕ5 Y	
	←G—	ϕ5 G	
WB (6A, 6B, 6C)	R	ϕ6 R	R
	Y	ϕ6 Y	
	G	ϕ6 G	
OVERLAPS			
OLA (4A)	—Y→	ϕ5 Y	R
	—G→	ϕ5 G	

COORDINATION TIMING CHART

PROPOSED TIMING OH-63 & MIAMI VALLEY GAMING										
PHASE	1	2	3	4	5	6	7	8	OFFSET 1 (SEC)	OFFSET 2 (SEC)
DIRECTION	-	EB	-	SB	EBLT	WB	-	-		
PLAN NO. OR C/S/O	SPLITS (G+Y+AR) IN SECONDS									
2	-	70	-	20	25	45	-	-	42	-
5	-	78	-	22	27	51	-	-	22	-
7	-	90	-	20	21	69	-	-	17	-
8	-	85	-	25	21	64	-	-	46	-
12	-	95	-	25	23	73	-	-	106	-
28	-	105	-	25	25	80	-	-	73	-

TIME OF DAY SCHEDULE				
DAY(S) OF WEEK	PLAN NAME	HOURS	PLAN NO. OR CYCLE/SPLIT/OFFSET	CYCLE LENGTH (SEC)
MON-FRI	1	12:00 AM	100	FREE
MON-FRI	2	6:30 AM	7	110
MON-FRI	3	9:00 AM	2	90
MON-FRI	4	11:00 AM	8	110
MON-FRI	5	1:00 PM	5	110
MON-FRI	6	3:00 PM	12	120
MON-FRI	7	7:00 PM	2	90
MON-FRI	8	10:00 PM	100	FREE
SAT-SUN	1	12:00 AM	100	FREE
SAT-SUN	2	8:00 AM	28	130
SAT-SUN	3	10:00 PM	100	FREE

LEGEND

- 5 SECTION OR 4 SECTION VEHICULAR SIGNAL HEAD, 1-WAY
- 3 SECTION VEHICULAR SIGNAL HEAD, 1-WAY
- 3 SECTION VEHICULAR SIGNAL HEAD, TURN ARROWS 1-WAY
- DILEMMA ZONE RADAR DETECTION UNIT
- STOP BAR RADAR DETECTION UNIT
- LUMINAIRE, CONVENTIONAL
- PTZ CAMERA
- 7C — SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
- RC — RADAR DETECTION CABLE
- VC — VIDEO CAMERA CABLE
- INT — INTERCONNECT CABLE
- PE — PHOTOELECTRIC CELL
- POWER SOURCE
- N8 — NO. 8 AWG DISTRIBUTION CABLE
- N10 — NO. 10 AWG POLE & BRACKET CABLE
- SC — SERVICE CABLE, 3 CONDUCTOR, NO. 8 AWG
- PC — POWER CABLE, 2 CONDUCTOR, NO. 8 AWG
- SP 1 — SIGNAL SUPPORT POLE NO. __
- MB — METER BASE
- DS — DUAL LIGHTING/SIGNAL DISCONNECT SWITCH
- UPS — UNINTERRUPTIBLE POWER SUPPLY CABLE

OH-63 & MIAMI VALLEY GAMING
SIGNAL DETAILS

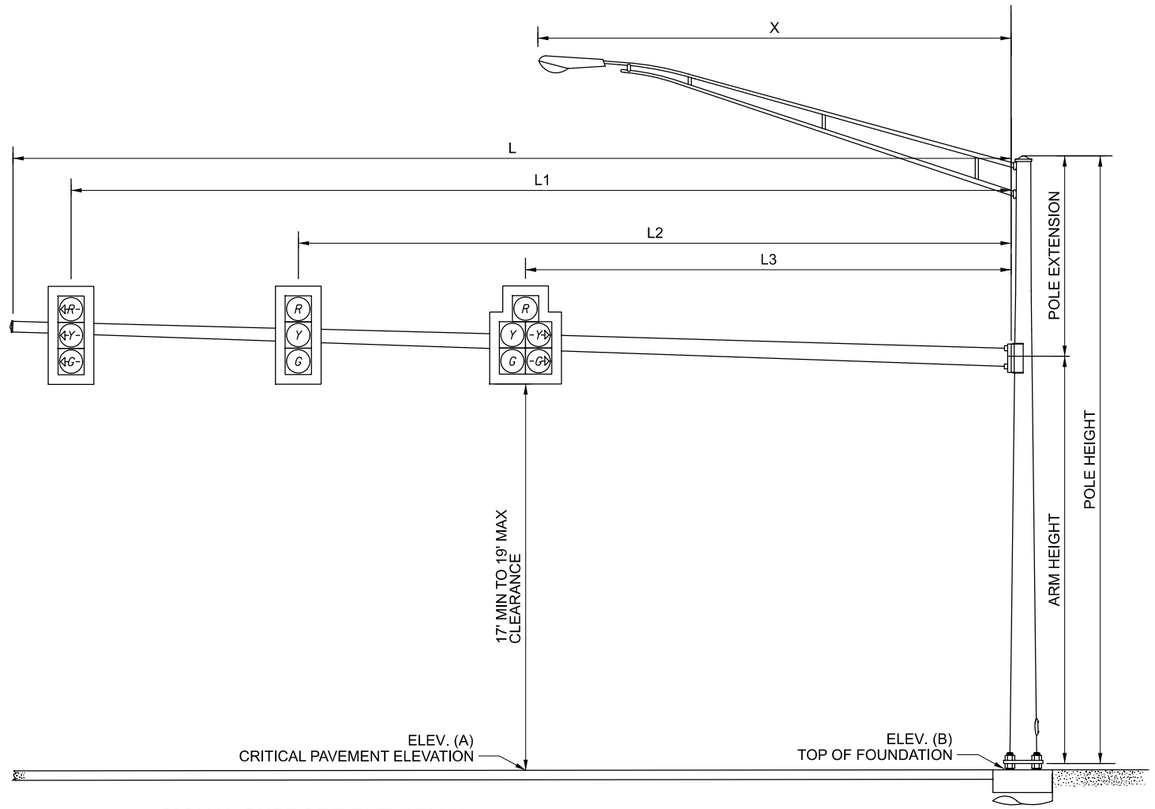
DESIGN AGENCY
TEC ENGINEERING, INC.
7288 Central Parke Blvd
Mason, OH 45246
(513) 771-8828

DESIGNER AFS
REVIEWER ALH 11-02-22
PROJECT ID 112121
SHEET 393 TOTAL 436

WAR-63-0.83

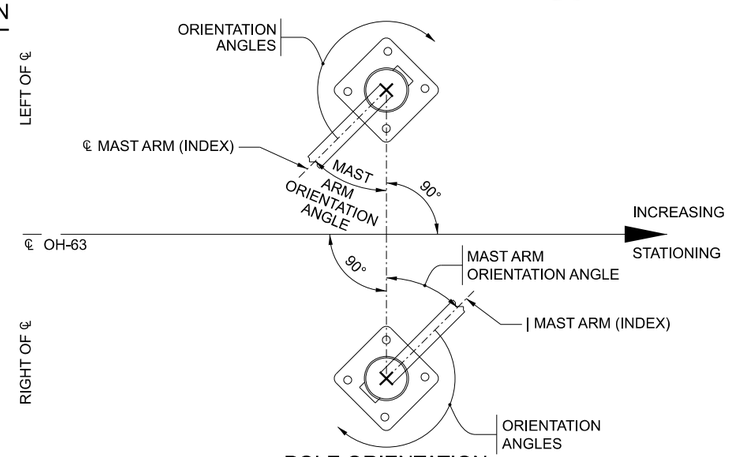
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ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION
625	25104	69	FT	CONDUIT, 1", 725.051
625	25404	5	FT	CONDUIT, 2", 725.051
625	25604	44	FT	CONDUIT, 4", 725.051
625	25908	277	FT	CONDUIT, JACKED OR DRILLED, 725.052, 4"
625	29002	118	FT	TRENCH, 24" DEEP
625	30706	3	EACH	PULL BOX, 725.04, 24"
625	31600	2	EACH	PULL BOX, MISC.: REUSE EXISTING PULL BOX
625	32000	3	EACH	GROUND ROD
630	79500	1	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED
632	90020	1	EACH	REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM, CABINET
632	05006	2	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE
632	25000	2	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	40700	1896	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	64020	1	EACH	PEDESTAL FOUNDATION
632	67300	109	FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG
632	70001	1	EACH	POWER SERVICE, AS PER PLAN
632	89905	1	EACH	PEDESTAL, 10', TRANSFORMER BASE, AS PER PLAN
633	65521	1	EACH	CABINET, TYPE 332, AS PER PLAN
633	67100	1	EACH	CABINET FOUNDATION
633	67200	1	EACH	CONTROLLER WORK PAD
633	68511	1	EACH	COMMUNICATIONS, AS PER PLAN
633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN
809	60000	1	EACH	CCTV IP-CAMERA SYSTEM, DOME-TYPE
809	69123	1	EACH	ATC V6.24 CONTROLLER, AS PER PLAN (PROGRAM & INSTALL ONLY)



SIGNAL SUPPORT ELEVATION

(TYPICAL)



POLE ORIENTATION

MAST ARM TABLE

SUPPORT NO.	STATION	OFFSET	ELEVATION		SIGNAL SUPPORT DETAILS											ORIENTATION ANGLES FROM MAST ARM A									
			A (PAVEMENT ELEVATION)	B (TOP OF FOUNDATION)	DESIGN TYPE	DESIGN NO.	POLE HEIGHT	ARM HEIGHT	L	L1	L2	L3	L4	L5	X	MAST ARM A ANGLE	MAST ARM B ANGLE	PEDESTRIAN SIGNAL	PEDESTRIAN PUSH BUTTON	POWER SERVICE	SIGNAL CABINET	BRACKET ARM	HANDHOLE	CABLE ENTRANCE 12" FROM TOP	SUPPLEMENTAL SIGNAL
							FT	FT	FT	FT	FT	FT	FT	FT	FT	DEG	DEG	DEG	DEG	DEG	DEG	DEG	DEG	DEG	DEG
SP-1	EX.	EX.	EX.	EX.	EX.	EX.	EX.	EX.	EX.	EX.	EX.	-	-	-	-	EX.	-	-	-	-	-	-	-	-	-
SP-2	EX.	EX.	EX.	EX.	EX.	EX.	EX.	EX.	EX.	EX.	EX.	-	-	-	-	EX.	-	-	-	-	-	-	-	-	190
SP-3	EX.	EX.	EX.	EX.	EX.	EX.	EX.	EX.	EX.	EX.	EX.	EX.	20	-	-	EX.	-	-	-	-	-	-	-	-	-
PS-1	117+8.1	43.8' RT	-	670.04	83.11	-	10	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	281

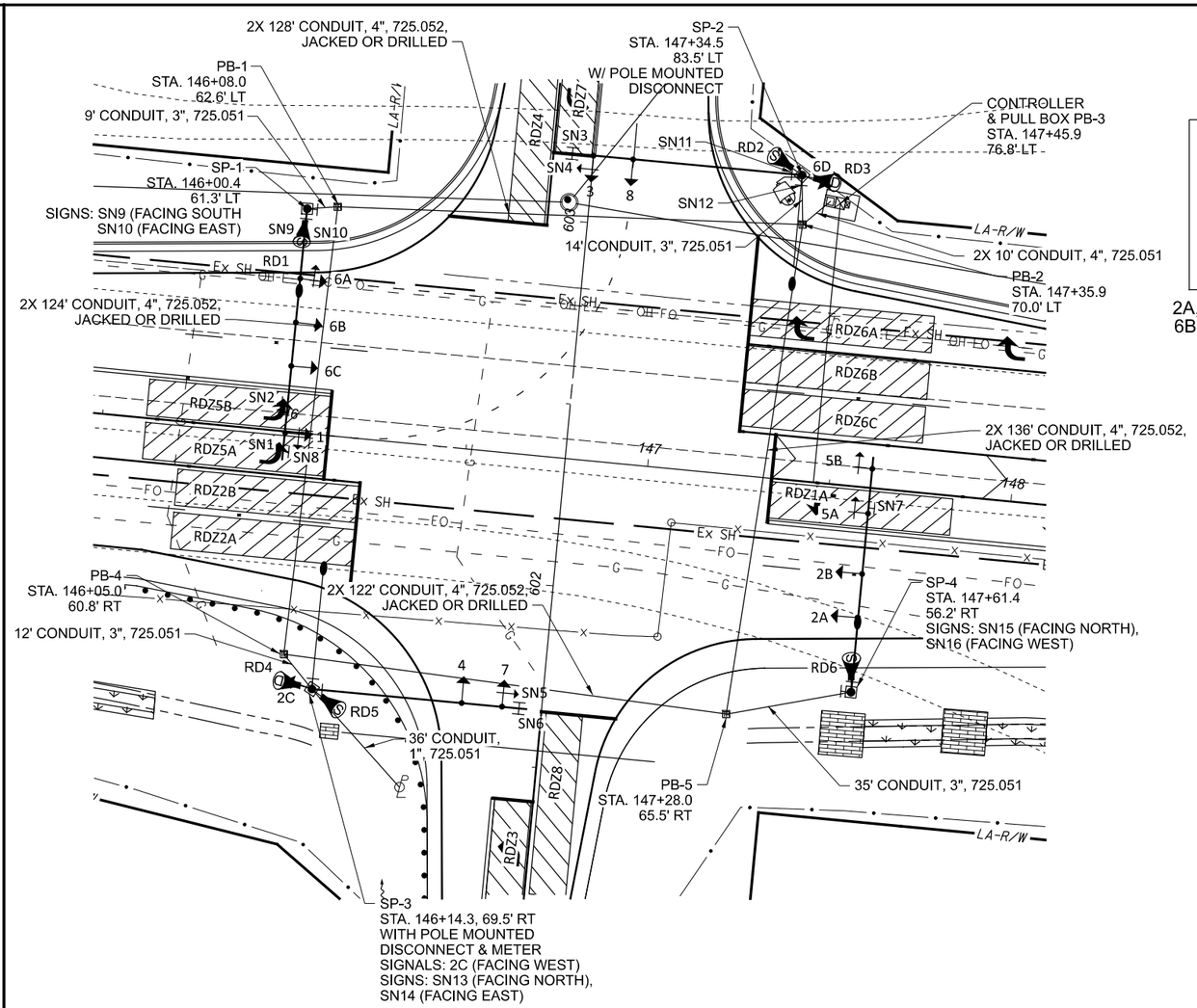
SR-63 & MIAMI VALLEY GAMING ENTRANCE
SIGNAL DETAILS

DESIGN AGENCY
TEC ENGINEERING, INC.
7288 Central Parke Blvd
Mason, OH 45246
(513) 771-8828

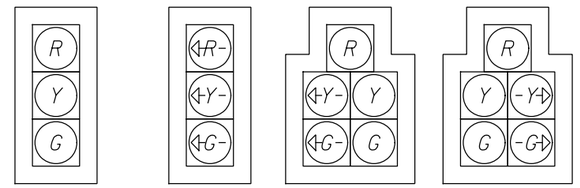
DESIGNER AFS
REVIEWER ALH 11-02-22
PROJECT ID 112121
SHEET 394 TOTAL 436

WAR-63-0.83

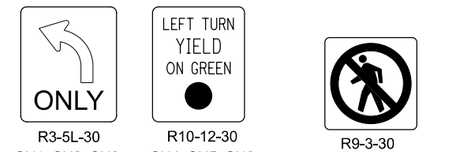
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PROPOSED SIGNALS



PROPOSED SIGNS



RADAR DETECTION CHART

DETECTION ZONE	MOVEMENT	WIDTH (FT)	ASSOCIATED PHASE	DETECTOR NUMBER	DELAY IN CONTROLLER (SEC)	DELAY INHIBIT PHASE	PURPOSE	DETECTION ZONE LENGTH (FT)
RDZ1A	WBLT	10	ϕ1	RD6	-	-	STOP LINE	50
RDZ2A	EB	10	ϕ2	RD1	-	-	STOP LINE	50
RDZ2B	EB	10	ϕ2	RD1	-	-	STOP LINE	50
RDZ2C	EB	10	ϕ2	RD4	-	-	ADVANCED	200
RDZ2D	EB	10	ϕ2	RD4	-	-	ADVANCED	200
RDZ3	NBLT	10	ϕ3	RD5	-	-	STOP LINE	50
RDZ4	SB	10	ϕ4	RD2	-	-	STOP LINE	50
RDZ5A	EBLT	10	ϕ5	RD1	-	-	STOP LINE	50
RDZ5B	EBLT	10	ϕ5	RD1	-	-	STOP LINE	50
RDZ6A	WBRT	10	ϕ6	RD6	5	-	STOP LINE	50
RDZ6B	WB	10	ϕ6	RD6	-	-	STOP LINE	50
RDZ6C	WB	10	ϕ6	RD6	-	-	STOP LINE	50
RDZ6D	WB	10	ϕ6	RD4	-	-	ADVANCED	200
RDZ6E	WB	10	ϕ6	RD4	-	-	ADVANCED	200
RDZ6F	WB	10	ϕ6	RD4	-	-	ADVANCED	200
RDZ7	SBLT	10	ϕ7	RD2	-	-	STOP LINE	50
RDZ8	NB	10	ϕ8	RD5	-	-	STOP LINE	50

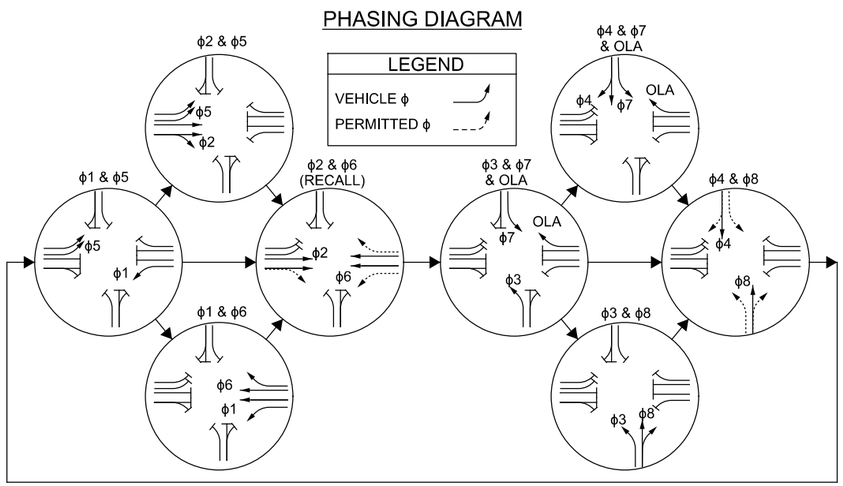
*ADVANCED DILEMMA ZONE SPEED THRESHOLD PURPOSE=STOP LINE OR ADVANCED ≥35 MPH

*ADVANCED DETECTION ZONE NOT SHOWN IN PLANS

PULLBOX TABLE

PULLBOX #	STATION	SIDE	OFFSET	SIZE (IN.)
PB-1	146+08.0	LEFT	62.6	24
PB-2	147+35.9	LEFT	70.0	24
PB-3	147+45.9	LEFT	76.8	24
PB-4	146+05.0	RIGHT	60.8	24
PB-5	147+28.0	RIGHT	65.5	24

PHASING DIAGRAM



LEGEND

	PROP	EXIST
TRAFFIC SIGNAL, 3 UNIT HEAD, 12"	●→	○→
TRAFFIC SIGNAL, 4 OR 5 UNIT HEAD, 12"	●→	○→
TRAFFIC SIGNAL, 3 UNIT HEAD, 12", WITH ARROWS	●→	○→
SIGNAL SUPPORT POLE	●	○
TRAFFIC PULL BOX	TR	TR
CONTROLLER CABINET AND WORK PAD		
REGULATORY SIGNAGE, MAST ARM MOUNTED	⊢	
PTZ CAMERA		

HORIZONTAL SCALE IN FEET
0 10 20 40

SR-63 AND LCI DRIVEWAY 1/ENCORE DRIVE SIGNAL PLANS

DESIGN AGENCY
TEC Engineering, Inc.
7288 Central Parke Blvd
Mason, OH 45246
(513) 771-8828

DESIGNER AFS
REVIEWER ALH 11-02-22
PROJECT ID 112121
SHEET 395 TOTAL 436

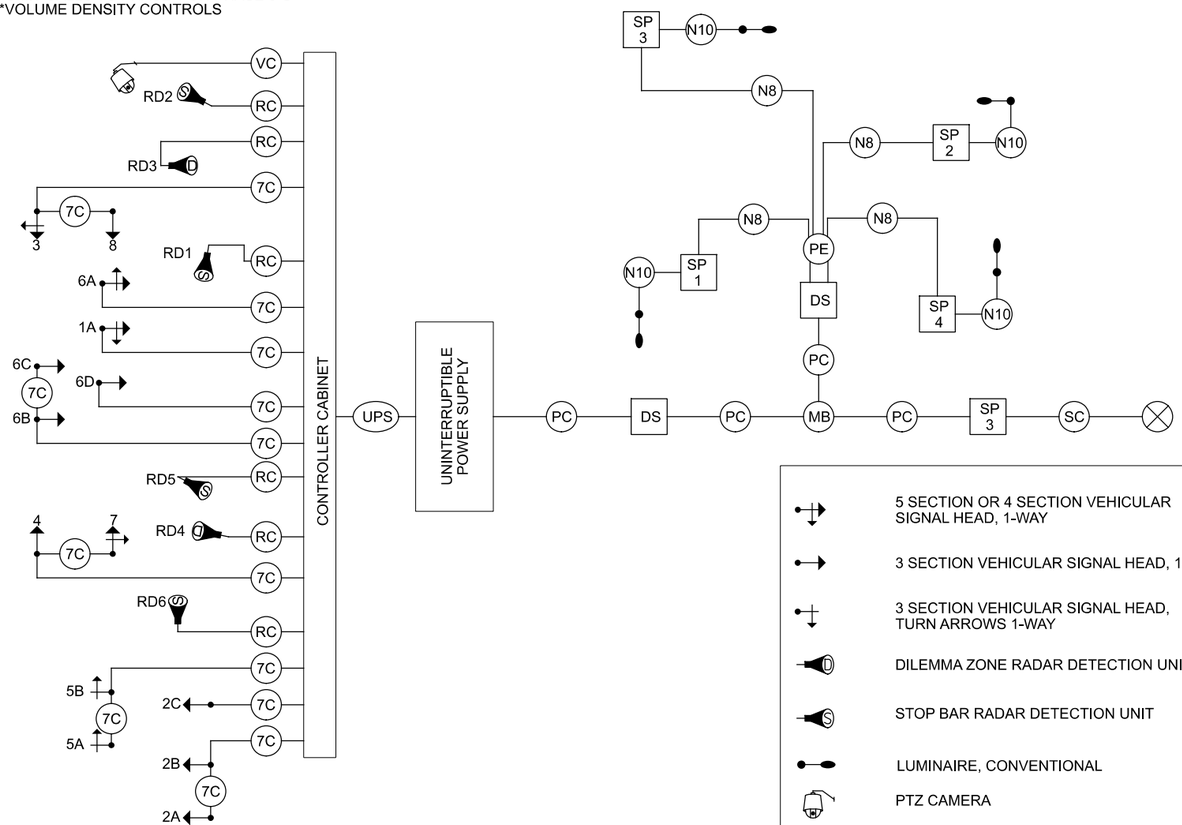
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SIGNAL TIMING CHART

INTERSECTION: OH-63 & ENCORE DRIVE MAINTAINING AGENCY: THE OHIO DEPARTMENT OF TRANSPORTATION									
START UP		DUAL ENTRY: YES	PHASES: 2&6, 4&8						
		REST IN RED:	RING 1 -				RING 2 -		
START IN: ALL-RED FLASH TIME FOR FLASH OR ALL RED: 6 FIRST PHASE(S): 2&6 COLOR DISPLAYED: GREEN		OVERLAP			A	B	C	D	
		PHASES			7	-	-	-	
INTERVAL OR FEATURE		CONTROLLER MOVEMENT NO.							
INTERSECTION MOVEMENT (PHASE)		1	2	3	4	5	6	7	8
DIRECTION		WBLT	EB	NBLT	SB	EBLT	WB	SBLT	NB
MINIMUM GREEN (INITIAL)	(SEC.)	8	30	8	10	8	30	8	10
ADDED INITIAL	*(SEC./ACTUATION)	-	-	-	-	-	-	-	-
MAXIMUM INITIAL	(SEC.)	-	-	-	-	-	-	-	-
PASSAGE TIME (PRESET GAP)	(SEC.)	3	3	3	3	3	3	3	3
TIME BEFORE REDUCTION	*(SEC.)	-	-	-	-	-	-	-	-
MINIMUM GAP	*(SEC.)	-	-	-	-	-	-	-	-
TIME TO REDUCE	*(SEC.)	-	-	-	-	-	-	-	-
MAXIMUM GREEN I	(SEC.)	15	60	15	30	15	60	15	30
MAXIMUM GREEN II	(SEC.)	-	-	-	-	-	-	-	-
YELLOW CHANGE	(SEC.)	5	5.5	5	5.5	5	5.5	5	5.5
ALL RED CLEARANCE	(SEC.)	2.5	2	3.5	2	2.5	2	3.5	2
WALK	(SEC.)	-	-	-	-	-	-	-	-
PEDESTRIAN CLEARANCE	(SEC.)	-	-	-	-	-	-	-	-
RECALL	MAXIMUM (ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	MINIMUM (ON/OFF)	-	ON	-	-	-	ON	-	-
	PEDESTRIAN (ON/OFF)	-	-	-	-	-	-	-	-
MEMORY	(ON/OFF)	-	-	-	-	-	-	-	-

*OMIT CALLS TO PHASE 1 ON PHASE 6 G
*VOLUME DENSITY CONTROLS



FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
WBLT (1)	R	ϕ6 R	R
	Y	ϕ6 Y	
	G	ϕ6 G	
	←Y—	ϕ1 Y	
	←G—	ϕ1 G	
EB (2A, 2B, 2C)	R	ϕ2 R	R
	Y	ϕ2 Y	
	G	ϕ2 G	
NBLT (3)	R	ϕ8 R	R
	Y	ϕ8 Y	
	G	ϕ8 G	
	← Y—	ϕ3 Y	
	← G—	ϕ3 G	
SB (4)	R	ϕ4 R	R
	Y	ϕ4 Y	
	G	ϕ4 G	
LS= LOAD SWITCH			

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
EBLT (5A, 5B)	←R—	ϕ5 R	R
	←Y—	ϕ5 Y	
	←G—	ϕ5 G	
WB (6B, 6C, 6D)	R	ϕ6 R	R
	Y	ϕ6 Y	
	G	ϕ6 G	
WBRT (6A)	R	ϕ6 R	R
	Y	ϕ6 Y	
	G	ϕ6 G	
	—Y→	OLA	
	—G→	OLA	
SBLT (7)	R	ϕ4 R	R
	Y	ϕ4 Y	
	G	ϕ4 G	
	←Y—	ϕ7 Y	
	←G—	ϕ7 G	
NB (8)	R	ϕ8 R	R
	Y	ϕ8 Y	
	G	ϕ8 G	
OVERLAP			
OLA	—Y→	ϕ7 Y	R
	—G→	ϕ7 Y	

LEGEND

- 5 SECTION OR 4 SECTION VEHICULAR SIGNAL HEAD, 1-WAY
- 3 SECTION VEHICULAR SIGNAL HEAD, 1-WAY
- 3 SECTION VEHICULAR SIGNAL HEAD, TURN ARROWS 1-WAY
- DILEMMA ZONE RADAR DETECTION UNIT
- STOP BAR RADAR DETECTION UNIT
- LUMINAIRE, CONVENTIONAL
- PTZ CAMERA
- 7C — SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
- RC — RADAR DETECTION CABLE
- VC — VIDEO CAMERA CABLE
- INT — INTERCONNECT CABLE
- PE — PHOTOELECTRIC CELL
- POWER SOURCE
- N8 — NO. 8 AWG DISTRIBUTION CABLE
- N10 — NO. 10 AWG POLE & BRACKET CABLE
- SC — SERVICE CABLE, 3 CONDUCTOR, NO. 8 AWG
- PC — POWER CABLE, 2 CONDUCTOR, NO. 8 AWG
- SP 1 — SIGNAL SUPPORT POLE NO. __
- MB — METER BASE
- DS — DUAL LIGHTING/SIGNAL DISCONNECT SWITCH
- UPS — UNINTERRUPTIBLE POWER SUPPLY CABLE

SR-63 & LCI DRIVEWAY 1/ENCORE DRIVE
SIGNAL DETAILS

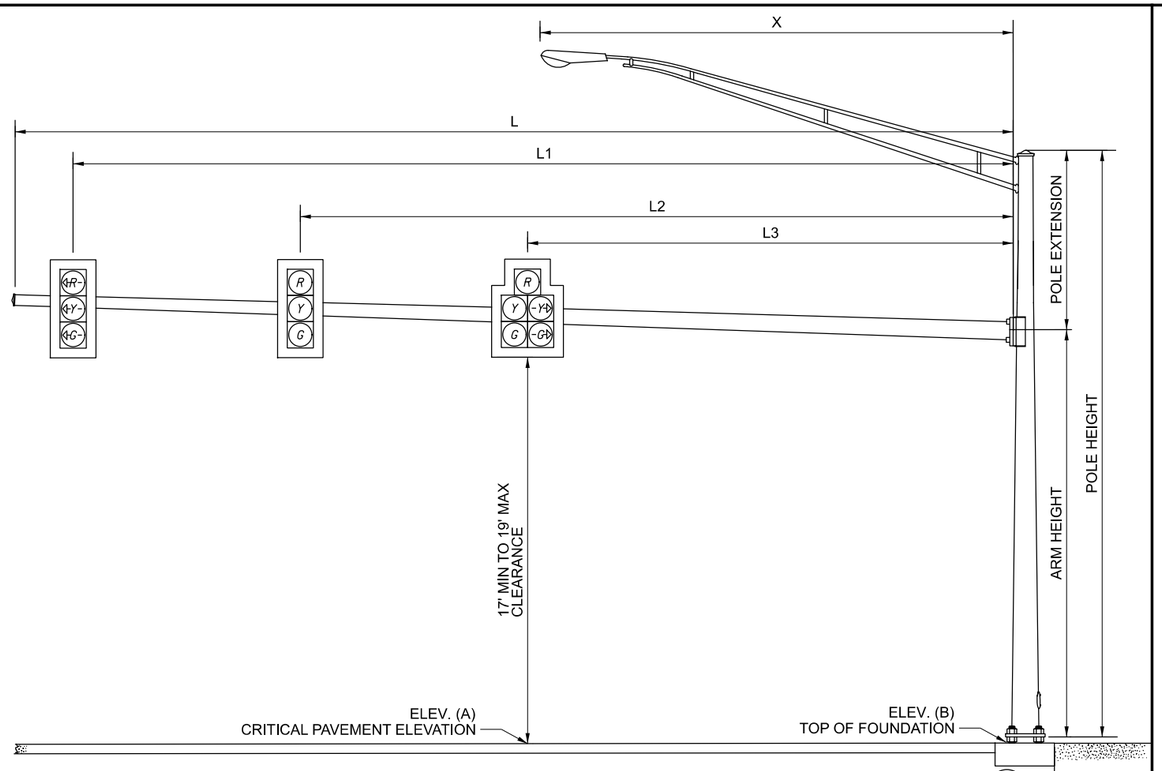
DESIGN AGENCY
TEC ENGINEERING, INC.
7288 Central Parke Blvd
Mason, OH 45246
(513) 771-8828

DESIGNER AFS
REVIEWER ALH 11-02-22
PROJECT ID 112121
SHEET 396 TOTAL 436

WAR-63-0.83

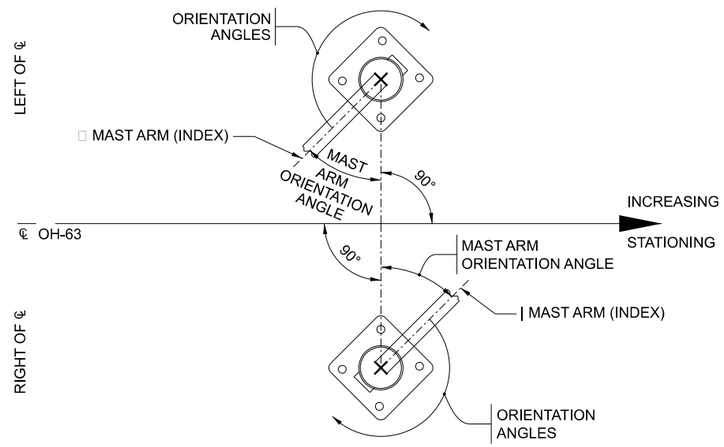
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ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION
625	00450	8	EACH	CONNECTION, FUSED PULL APART
625	00460	4	EACH	CONNECTED, UNFUSED PULL APART
625	18300	1	EACH	BRACKET ARM, 18'
625	18400	1	EACH	BRACKET ARM, 20'
625	18500	1	EACH	BRACKET ARM, 25'
625	18510	1	EACH	BRACKET ARM, 30'
625	23304	2112	FT	NO. 8 AWG 600 VOLT DISTRIBUTION CABLE
625	23400	462	FT	NO. 10 AWG POLE AND BRACKET CABLE
625	25104	36	FT	CONDUIT, 1", 725.051
625	25504	70	FT	CONDUIT, 3", 725.051
625	25604	20	FT	CONDUIT, 4", 725.051
625	25908	1020	FT	CONDUIT, JACKED OR DRILLED, 725.052, 4"
625	26253	4	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, WITH PHOTOCELL
625	29000	172	FT	TRENCH, 24" DEEP
625	30706	5	EACH	PULL BOX, 725.04, 24"
625	32000	6	EACH	GROUND ROD
630	79500	8	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED
630	79200	8	EACH	SIGN ATTACHMENT ASSEMBLY, MAST ARM
630	80100	110	SF	SIGN, FLAT SHEET
632	05006	10	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE
632	05086	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE
632	25000	14	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	40700	3155	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION
632	67300	370	FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG
632	70001	1	EACH	POWER SERVICE, AS PER PLAN
632	70200	1	EACH	1" CONDUIT RISER
632	79151	4	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN
633	65521	1	EACH	CABINET, TYPE 332, AS PER PLAN
633	67100	1	EACH	CABINET FOUNDATION
633	67200	1	EACH	CONTROLLER WORK PAD
633	68511	1	EACH	COMMUNCAITONS, AS PER PLAN
633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN
809	60000	1	EACH	CCTV IP-CAMERA SYSTEM, DOME-TYPE
809	69123	1	EACH	ATC V6.24 CONTROLLER, AS PER PLAN (PROGRAM & INSTALL ONLY)
809	69001	2	EACH	ADVANCE RADAR DETECTION, AS PER PLAN
809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN



SIGNAL SUPPORT ELEVATION

(TYPICAL)



POLE ORIENTATION

MAST ARM TABLE

SUPPORT NO.	STATION	OFFSET	ELEVATION		SIGNAL SUPPORT DETAILS													ORIENTATION ANGLES FROM MAST ARM A									
			A (PAVEMENT ELEVATION)	B (TOP OF FOUNDATION)	DESIGN TYPE	DESIGN NO.	POLE HEIGHT	ARM HEIGHT	L	L1	L2	L3	L4	L5	L6	L7	X	MAST ARM A ANGLE	MAST ARM B ANGLE	PEDESTRIAN SIGNAL	PEDESTRIAN PUSH BUTTON	POWER SERVICE DISCONNECT	SIGNAL CABINET	BRACKET ARM	HANDHOLE	CABLE ENTRANCE 12" FROM TOP	SUPPLEMENTAL SIGNAL
							FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	DEG	DEG	DEG	DEG	DEG	DEG	DEG	DEG	DEG	DEG
SP-1	146+0.4	61.3' LT	706.33	705.61	TC-81.22	14	35.5	20.5	70	67	67	62	55	43	31	19	20	0	-	-	-	-	-	0	180	-	-
SP-2	147+34.5	83.5' LT	706.57	709.93	TC-81.22	14	32.5	17.0	65	63	63	57	47	-	-	-	25	90	-	-	-	180	-	270	180	-	198
SP-3	146+14.3	69.5' RT	707.32	703.07	TC-81.22	14	38.5	23.5	59	57	57	53	41	-	-	-	30	90	-	-	-	180	-	270	180	-	194
SP-4	147+61.4	56.2' RT	710.35	708.93	TC-81.22	14	36	21	65	62	51	49	33	21	-	-	18	0	-	-	-	-	-	0	180	-	-

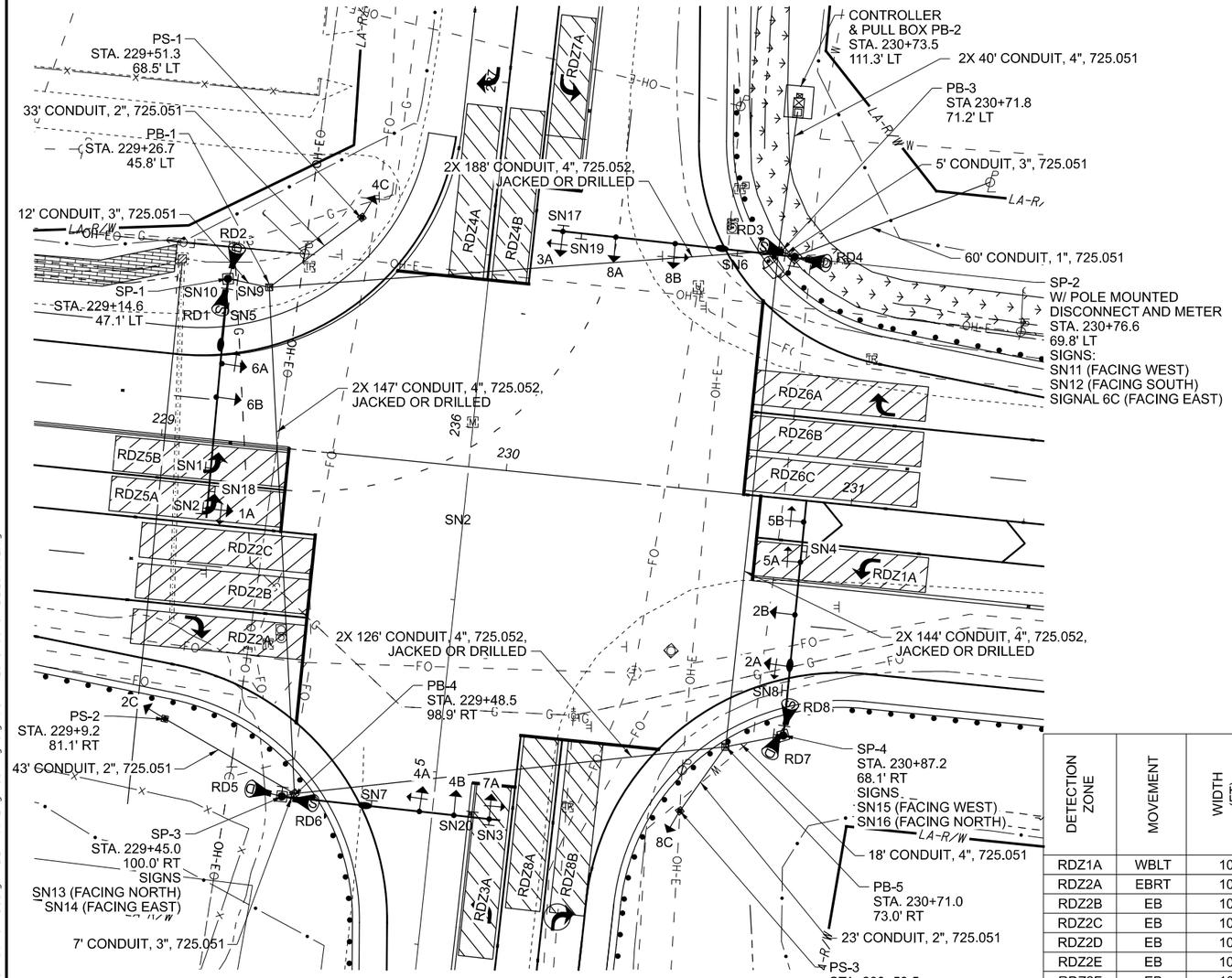
SR-63 & LCI DRIVEWAY 1/ENCORE DRIVE SIGNAL DETAILS

DESIGN AGENCY
TEC ENGINEERING, INC.
7288 Central Parke Blvd
Mason, OH 45246
(513) 771-8828

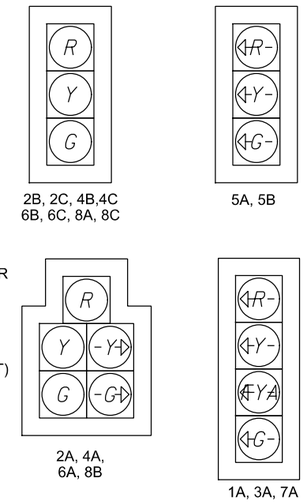
DESIGNER AFS
REVIEWER ALH 11-02-22
PROJECT ID 112121
SHEET 397 TOTAL 436

WAR-63-0.83

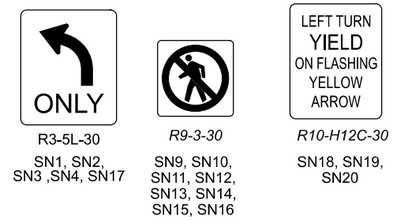
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PROPOSED SIGNALS



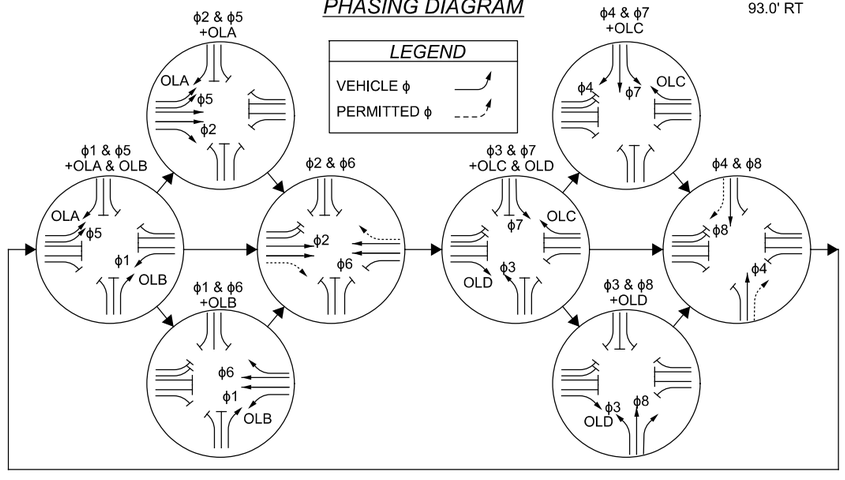
PROPOSED SIGNS



PULLBOX TABLE

PULLBOX #	STATION	SIDE	OFFSET(FT.)	SIZE (IN.)
PB-1	229+26.7	LEFT	45.8	24
PB-2	230+73.5	LEFT	111.3	24
PB-3	230+71.8	LEFT	71.2	24
PB-4	229+48.5	RIGHT	98.9	24
PB-5	230+71.0	RIGHT	73.0	24

PHASING DIAGRAM



RADAR DETECTION CHART

DETECTION ZONE	MOVEMENT	WIDTH (FT)	ASSOCIATED PHASE	DETECTOR NUMBER	DELAY IN CONTROLLER (SEC)	DELAY INHIBIT PHASE	PURPOSE	DETECTION ZONE LENGTH (FT)
RDZ1A	WBLT	10	ϕ1	RD8	-	-	STOP LINE	50
RDZ2A	EBRT	10	ϕ2	RD1	5	-	STOP LINE	50
RDZ2B	EB	10	ϕ2	RD1	-	-	STOP LINE	50
RDZ2C	EB	10	ϕ2	RD1	-	-	STOP LINE	50
RDZ2D	EB	10	ϕ2	RD5	-	-	ADVANCED	200
RDZ2E	EB	10	ϕ2	RD5	-	-	ADVANCED	200
RDZ2F	EB	10	ϕ2	RD5	-	-	ADVANCED	200
RDZ3A	NBLT	10	ϕ3	RD6	-	-	STOP LINE	50
RDZ4A	SBRT	10	ϕ4	RD3	5	-	STOP LINE	50
RDZ4B	SB	10	ϕ4	RD3	-	-	STOP LINE	50
RDZ4D	SB	10	ϕ4	RD7	-	-	ADVANCED	200
RDZ5A	EBLT	10	ϕ5	RD1	-	-	STOP LINE	50
RDZ5B	EBLT	10	ϕ5	RD1	-	-	STOP LINE	50
RDZ6A	WBRT	10	ϕ6	RD8	5	-	STOP LINE	50
RDZ6B	WB	10	ϕ6	RD8	-	-	STOP LINE	50
RDZ6C	WB	10	ϕ6	RD8	-	-	STOP LINE	50
RDZ6D	WB	10	ϕ6	RD4	-	-	ADVANCED	200
RDZ6E	WB	10	ϕ6	RD4	-	-	ADVANCED	200
RDZ6F	WB	10	ϕ6	RD4	-	-	ADVANCED	200
RDZ7A	SBLT	10	ϕ7	RD3	-	-	STOP LINE	50
RDZ8A	NB	10	ϕ8	RD6	-	-	STOP LINE	50
RDZ8B	NBRT	10	ϕ8	RD6	5	-	STOP LINE	50
RDZ8C	NB	10	ϕ8	RD7	-	-	ADVANCED	200
RDZ8D	NB	10	ϕ8	RD7	-	-	ADVANCED	200

*ADVANCED DILEMMA ZONE SPEED THRESHOLD PURPOSE=STOP LINE OR ADVANCED ≥35 MPH

*ADVANCED DETECTION ZONE NOT SHOWN IN PLANS

LEGEND

	PROP	EXIST
TRAFFIC SIGNAL, 3 UNIT HEAD, 12"		
TRAFFIC SIGNAL, 4 OR 5 UNIT HEAD, 12"		
TRAFFIC SIGNAL, 3 UNIT HEAD, 12", WITH ARROWS		
SIGNAL SUPPORT POLE		
TRAFFIC PULL BOX		
CONTROLLER CABINET AND WORK PAD		
REGULATORY SIGNAGE, MAST ARM MOUNTED		
PTZ CAMERA		

HORIZONTAL SCALE IN FEET
0 10 20 40

SR-63 AND SR-741
SIGNAL PLANS

DESIGN AGENCY
TEC ENGINEERING, INC.
7288 Central Parke Blvd
Mason, OH 45246
(513) 771-8828

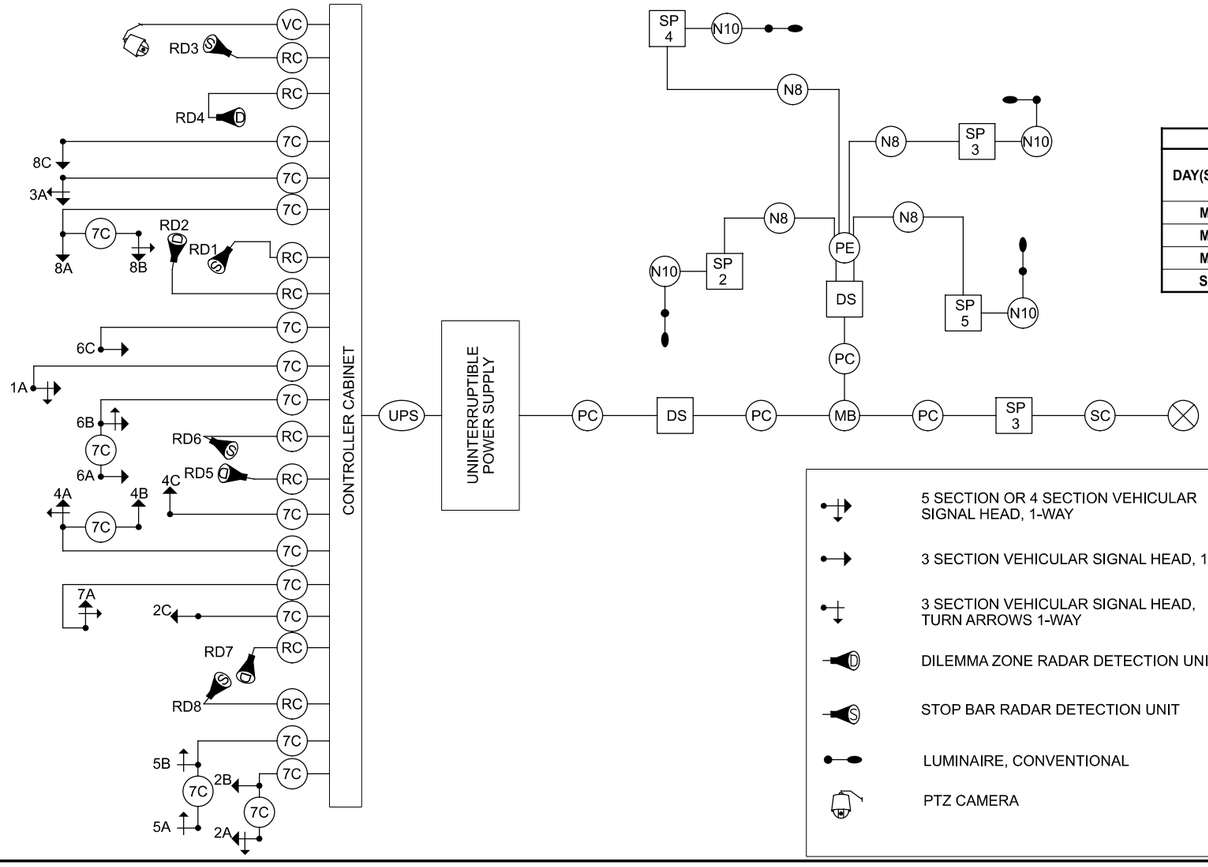
DESIGNER AFS
REVIEWER ALH 11-02-22
PROJECT ID 112121
SHEET 398 TOTAL 436

WAR-63-0.83

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SIGNAL TIMING CHART

INTERSECTION: OH-63 & OH-741									
MAINTAINING AGENCY: THE OHIO DEPARTMENT OF TRANSPORTATION									
START UP		DUAL ENTRY: YES		PHASES:			2&6, 4&8		
		REST IN RED:		RING 1 -			RING 2 -		
START IN: ALL-RED FLASH		OVERLAP			A	B	C	D	
TIME FOR: FLASH , ALL RED (SEC.): 9, 6									
FIRST PHASE(S): 2&6		PHASES			5	1	7	3	
COLOR DISPLAYED: GREEN									
INTERVAL OR FEATURE		CONTROLLER MOVEMENT NO.							
INTERSECTION MOVEMENT (PHASE)		1	2	3	4	5	6	7	8
DIRECTION		WBLT	EB	NBLT	SB	EBLT	WB	SBLT	NB
MINIMUM GREEN (INITIAL)	(SEC.)	7	10	7	10	7	10	7	10
ADDED INITIAL	*(SEC./ACTUATION)	-	-	-	-	-	-	-	-
MAXIMUM INITIAL	*(SEC.)	-	-	-	-	-	-	-	-
PASSAGE TIME (PRESET GAP)	(SEC.)	3	3	3	3	3	3	3	3
TIME BEFORE REDUCTION	*(SEC.)	-	-	-	-	-	-	-	-
MINIMUM GAP	*(SEC.)	-	-	-	-	-	-	-	-
TIME TO REDUCE	*(SEC.)	-	-	-	-	-	-	-	-
MAXIMUM GREEN I	(SEC.)	15	40	15	80	15	40	20	80
MAXIMUM GREEN II	(SEC.)	-	-	-	-	25	-	-	-
MAXIMUM GREEN III	(SEC.)	15	60	15	60	15	60	15	60
YELLOW CHANGE	(SEC.)	5	5.5	5	5.5	5	5.5	5	5.5
ALL RED CLEARANCE	(SEC.)	3	2	4	1.5	3	1	4	1.5
DELAYED GREEN (LPI) '	(SEC.)	-	-	-	-	-	-	-	-
FLASHING YELLOW ARROW DELAY^	(SEC.)	3	-	3	-	-	-	3	-
WALK	(SEC.)	-	-	-	-	-	-	-	-
PEDESTRIAN CLEARANCE	(SEC.)	-	-	-	-	-	-	-	-
RECALL MAXIMUM	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
RECALL MINIMUM	(ON/OFF)	-	-	-	-	-	-	-	-
RECALL PEDESTRIAN	(ON/OFF)	-	-	-	-	-	-	-	-
MEMORY	(ON/OFF)	-	-	-	-	-	-	-	-



FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
WBLT (1A)	←R—	ϕ1 R	R
	←Y—	ϕ1 Y	
	←FYA—	ϕ9 G	
	G	ϕ1 G	
EBRT (2A)	R	ϕ2 R	R
	Y	ϕ2 Y	
	G	ϕ2 G	
	—Y→	OLD	
	—G→	OLD	
EB (2B, 2C)	R	ϕ2 R	R
	Y	ϕ2 Y	
	G	ϕ2 G	
NBLT (3A)	←R—	ϕ3 R	R
	←Y—	ϕ3 Y	
	←FYA—	ϕ10 G	
	←G—	ϕ3 G	
SBRT (4A)	R	ϕ4 R	R
	Y	ϕ4 Y	
	G	ϕ4 G	
	—Y→	OLA	
	—G→	OLA	
SB (4B, 4C)	R	ϕ4 R	R
	Y	ϕ4 Y	
	G	ϕ4 G	

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
EBLT (5A, 5B)	←R—	ϕ5 R	R
	←Y—	ϕ5 Y	
	←G—	ϕ5 G	
WBRT (6A)	R	ϕ6 R	R
	Y	ϕ6 Y	
	G	ϕ6 G	
	—Y→	OLC	
	—G→	OLC	
WB (6B, 6C)	R	ϕ6 R	R
	Y	ϕ6 Y	
	G	ϕ6 G	
SBLT (7A)	←R—	ϕ7 R	R
	←Y—	ϕ7 Y	
	←FYA—	ϕ11 G	
	←G—	ϕ7 G	
NBRT (8B)	R	ϕ8 R	R
	Y	ϕ8 Y	
	G	ϕ8 G	
	—Y→	OLB	
	—G→	OLB	
NB (8A, 8C)	R	ϕ8 R	R
	Y	ϕ8 Y	
	G	ϕ8 G	
OVERLAP			
OLA	—Y→	ϕ5 Y	R
	—G→	ϕ5 G	
OLB	—Y→	ϕ1 Y	R
	—G→	ϕ1 G	
OLC	—Y→	ϕ7 Y	R
	—G→	ϕ7 G	
OLD	—Y→	ϕ3 Y	R
	—G→	ϕ3 G	

TIME OF DAY SCHEDULE			
DAY(S) OF WEEK	HOURS	PLAN NO. OR CYCLE/SPLIT/OFFSET	CYCLE LENGTH (SEC)
MON-FRI	12:00 AM	100	FREE
MON-FRI	3:25 PM	90	MAX II
MON-FRI	4:00 PM	100	FREE
SAT-SUN	12:00 AM	91	MAX III

LEGEND

- 5 SECTION OR 4 SECTION VEHICULAR SIGNAL HEAD, 1-WAY
- 3 SECTION VEHICULAR SIGNAL HEAD, 1-WAY
- 3 SECTION VEHICULAR SIGNAL HEAD, TURN ARROWS 1-WAY
- DILEMMA ZONE RADAR DETECTION UNIT
- STOP BAR RADAR DETECTION UNIT
- LUMINAIRE, CONVENTIONAL
- PTZ CAMERA
- 7C — SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
- RC — RADAR DETECTION CABLE
- VC — VIDEO CAMERA CABLE
- INT — INTERCONNECT CABLE
- PE — PHOTOELECTRIC CELL
- POWER SOURCE
- N8 — NO. 8 AWG DISTRIBUTION CABLE
- N10 — NO. 10 AWG POLE & BRACKET CABLE
- SC — SERVICE CABLE, 3 CONDUCTOR, NO. 8 AWG
- PC — POWER CABLE, 2 CONDUCTOR, NO. 8 AWG
- SP 1 — SIGNAL SUPPORT POLE NO. __
- MB — METER BASE
- DS — DUAL LIGHTING/SIGNAL DISCONNECT SWITCH
- UPS — UNINTERRUPTIBLE POWER SUPPLY CABLE

SR-63 & SR-741
SIGNAL DETAILS

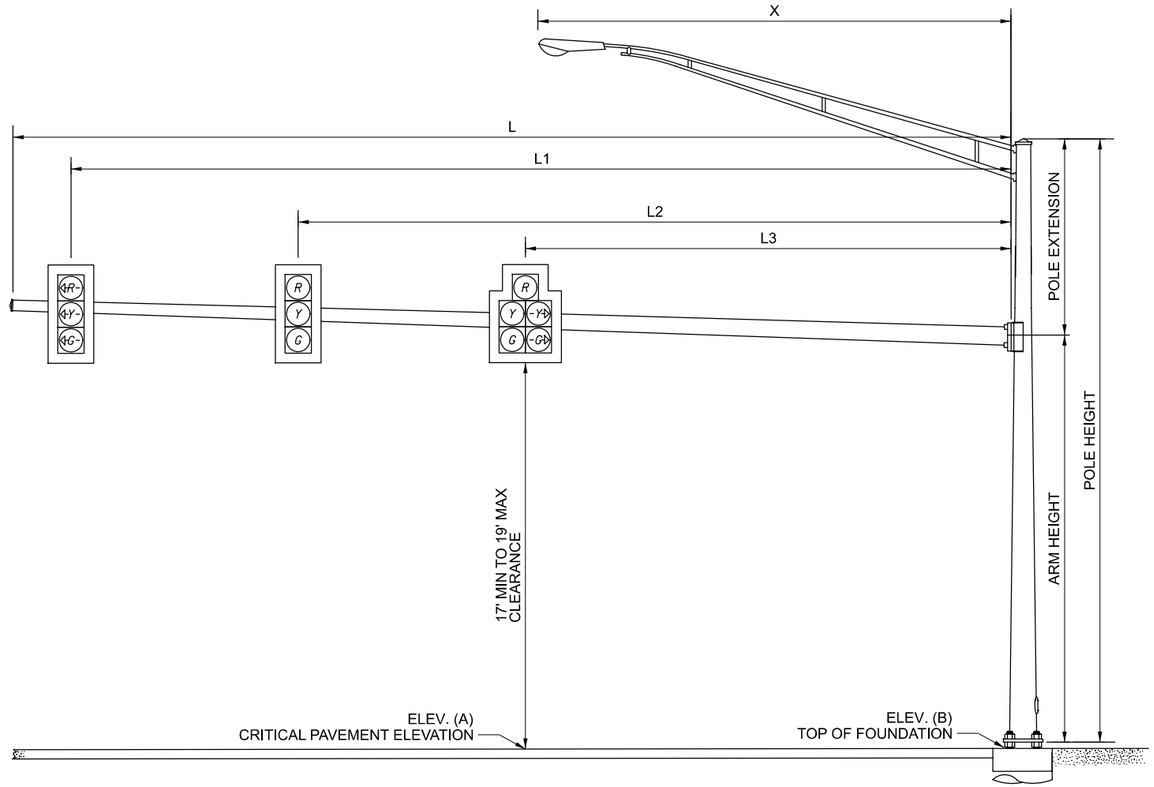
DESIGN AGENCY
TEC ENGINEERING, INC.
7288 Central Parke Blvd
Mason, OH 45246
(513) 771-8828

DESIGNER AFS
REVIEWER ALH 11-02-22
PROJECT ID 112121
SHEET 399 TOTAL 436

WAR-63-0.83

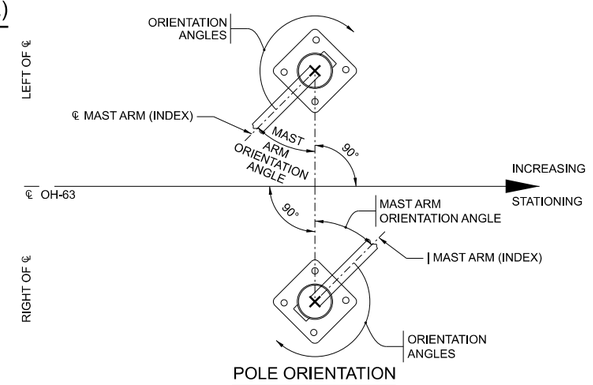
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ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION
625	00450	8	EACH	CONNECTION, FUSED PULL APART
625	00460	4	EACH	CONNECTED, UNFUSED PULL APART
625	18300	2	EACH	BRACKET ARM, 18'
625	18400	2	EACH	BRACKET ARM, 20'
625	23304	1642	FT	NO. 8 AWG 600 VOLT DISTRIBUTION CABLE
625	23400	636	FT	NO. 10 AWG POLE AND BRACKET CABLE
625	25104	60	FT	CONDUIT, 1", 725.051
625	25404	99	FT	CONDUIT, 2", 725.051
625	25504	24	FT	CONDUIT, 3", 725.051
625	25604	98	FT	CONDUIT, 4", 725.051
625	25908	1168	FT	CONDUIT, JACKED OR DRILLED, 725.052, 4"
625	26253	4	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, WITH PHOTOCELL
625	29000	241	FT	TRENCH, 24" DEEP
625	30706	5	EACH	PULL BOX, 725.04, 24"
625	32000	8	EACH	GROUND ROD
630	79500	8	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED
630	79200	12	EACH	SIGN ATTACHMENT ASSEMBLY, MAST ARM
630	80100	126	SF	SIGN, FLAT SHEET
632	05006	10	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE
632	05064	3	EACH	VEHICULAR SIGNAL HEAD, (LED), 4-SECTION, 12" LENS, 1-WAY, POLYCARBONATE
632	05086	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE
632	25000	17	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	40700	5180	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION
632	64020	3	EACH	PEDESTAL FOUNDATION
632	67300	103	FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG
632	70001	1	EACH	POWER SERVICE, AS PER PLAN
632	70200	1	EACH	1" CONDUIT RISER
632	79151	4	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN
632	89905	3	EACH	PEDESTAL, 10', TRANSFORMER BASE, AS PER PLAN
632	90101	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN
633	65521	1	EACH	CABINET, TYPE 332, AS PER PLAN
633	67100	1	EACH	CABINET FOUNDATION
633	67200	1	EACH	CONTROLLER WORK PAD
633	68511	1	EACH	COMMUNICATIONS, AS PER PLAN
633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN
809	60000	1	EACH	CCTV IP-CAMERA SYSTEM, DOME-TYPE
809	69123	1	EACH	ATC V6.24 CONTROLLER, AS PER PLAN (PROGRAM & INSTALL ONLY)
809	69001	4	EACH	ADVANCE RADAR DETECTION, AS PER PLAN
809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN



SIGNAL SUPPORT ELEVATION

(TYPICAL)



POLE ORIENTATION

MAST ARM TABLE

SUPPORT NO.	STATION	OFFSET	ELEVATION		SIGNAL SUPPORT DETAILS														ORIENTATION ANGLES FROM MAST ARM A								
			A (PAVEMENT ELEVATION)	B (TOP OF FOUNDATION)	DESIGN TYPE	DESIGN NO.	POLE HEIGHT	ARM HEIGHT	L	L1	L2	L3	L4	L5	L6	L7	L8	X	MAST ARM A ANGLE	MAST ARM B ANGLE	PEDESTRIAN SIGNAL	PEDESTRIAN PUSH BUTTON	POWER SERVICE	BRACKET ARM	HANDHOLE	CABLE ENTRANCE 12" FROM TOP	SUPPLEMENTAL SIGNAL
							FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	DEG	DEG	DEG	DEG	DEG	DEG	DEG	DEG	DEG
SP-1	229+14.6	47.1' LT	842.05	841.35	TC-81.22	14	35.5	20.5	70	67	67	62	55	35	25	14	-	20	0	-	-	-	-	0	180	-	-
SP-2	230+76.6	69.8' LT	842.18	840.98	TC-81.22	14	36.5	21.5	70	67	67	62	52	35	17	-	-	18	90	-	-	-	90	0	180	-	196
SP-3	229+45.0	100.0' RT	839.79	837.99	TC-81.22	14	37	22	63	60	60	55	50	40	26	-	-	20	90	-	-	-	-	0	180	-	-
SP-4	230+87.2	68.1' RT	840.61	838.25	TC-81.22	14	37	22	65	62	53	50	35	20	13	-	-	18	0	-	-	-	-	0	180	-	-
PS-1	229+51.3	68.5' LT	-	840.9	TC-83.20	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	180	-	205
PS-2	229+09.2	81.1' RT	-	833.8	TC-83.20	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	180	-	296
PS-3	230+59.2	93.0' RT	-	834.0	TC-83.20	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	180	-	205

SR-63 & SR-741
SIGNAL DETAILS

DESIGN AGENCY
TEC ENGINEERING, INC.
7288 Central Parke Blvd
Mason, OH 45246
(513) 771-5828

DESIGNER AFS
REVIEWER ALH 11-02-22
PROJECT ID 112121
SHEET 400 TOTAL 436

WAR-63-0.83

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PROJECT DESCRIPTION

THIS OVERALL PROJECT CONSISTS OF IMPROVEMENTS TO SR 63 BETWEEN UNION ROAD AND EAST OF SR 741. THE MAIN PURPOSE OF THIS PROJECT IS TO INCREASE ROADWAY CAPACITY AND REDUCE CRASH RATES. THE PROJECT CONSISTS OF FULL DEPTH REPLACEMENT AND WIDENING OF SR 63 FROM THE EXISTING TWO LANES TO FOUR LANES WITH TURN LANE(S).

HISTORIC RECORDS

NO HISTORIC SUBSURFACE INFORMATION FOR THESE SITES HAS BEEN PROVIDED, NOR IS SUCH INFORMATION KNOWN TO EXIST BY THE DESIGN TEAM.

GEOLOGY

THE PROJECT SITE IS LOCATED WITHIN THE SOUTHERN OHIO LOAMY TILL PLAIN PHYSIOGRAPHIC REGION AND UNDERLAIN BY OROVICIAN BEDROCK. THIS REGION IS CHARACTERIZED BY A SURFACE OF LOAMY TILL, END AND RECESSIONAL MORAINES COMMONLY ASSOCIATED WITH BOULDER BELTS, STREAM VALLEYS ALTERNATING BETWEEN BROAD FLOODPLAINS AND NARROWS FILLED WITH OUTWASH, AND MODERATE RELIEF OF 200 FEET. BEDROCK IN THE PROJECT AREA IS CLASSIFIED BY THE ODNR DGS AS OROVICIAN. OROVICIAN BEDROCK IN THE AREA CONSISTS OF A RATIO OF SHALE TO LIMESTONE BETWEEN 508 AND 438 MILLION YEARS OLD. THE PROJECT AREA IS IN MODERATE RELIEF WITH SURFACE ELEVATION RANGING FROM 667 TO 867 FEET.

RECONNAISSANCE

MS. LANA ABUQTAISH VISITED THE SITE ON MAY 5, 2021. THE SITE IS LOCATED WITHIN A RURAL AREA AND LAND USAGE AROUND THE PROJECT AREA IS GENERALLY AGRICULTURE, RESIDENTIAL AND COMMERCIAL. LEBANON CORRECTIONAL INSTITUTE IS LOCATED ON THE SOUTH SIDE OF SR 63 AND WEST OF SR 741. THE EAST AND WEST LEGS OF SR 63 AND SOUTH AND NORTH LEGS OF SR 741 GENERALLY CONSIST OF TWO TRAVEL LANES. THE PAVEMENT ALONG SR 63 AND SR 741 IS GENERALLY IN GOOD CONDITION WITH FEW LOCATIONS THAT HAD VISIBLE LONGITUDINAL AND TRANSVERSE CRACKING PATTERNS. SIX CULVERTS WERE OBSERVED ALONG SR 63, FOUR WEST OF INTERSECTION WITH SR 741 AND TWO EAST OF THE INTERSECTION.

SUBSURFACE EXPLORATION

SIXTY-FIVE (65) BORINGS, DESIGNATED B-001-0-21 TO B-065-0-21 ADVANCED TO DEPTHS RANGING BETWEEN 7 TO 40 FEET BELOW EXISTING GRADE, WERE COMPLETED AS PART OF THIS SUBSURFACE EXPLORATION. A 2.25-INCH-INSIDE-DIAMETER HOLLOW-STEM AUGER WAS USED ON BOTH THE GEOPROBE 3230DT DRILL RIG AND THE 6620DT DRILL RIG. AN AUTOMATIC HAMMER WITH A TESTED EFFICIENCY OF 90 PERCENT WAS USED TO OBTAIN SPT SAMPLES ON THE GEOPROBE 3230DT, AND AN AUTOMATIC HAMMER WITH TESTED EFFICIENCY OF 81.6 PERCENT ON THE GEOPROBE 6620DT. BORINGS WERE DRILLED BETWEEN JUNE 1, 2021, AND AUGUST 2, 2021.

EXPLORATION FINDINGS

ASPHALT, AGGREGATE BASE, OR TOPSOIL WAS OBSERVED AT THE GROUND SURFACE AT EACH BORING. ASPHALT THICKNESS RANGED FROM 2 INCHES TO 17 INCHES. AGGREGATE BASE, WHERE PRESENT UNDER THE ASPHALT, RANGED FROM 2 INCHES TO 36 INCHES. IN SOME BORINGS AGGREGATE BASE WAS NONEXISTENT WITH ASPHALT DIRECT OVERLYING MEDIUM STIFF TO VERY STIFF SILT AND CLAY.

BELOW THE SURFACE LAYER, BORINGS GENERALLY ENCOUNTERED NATIVE COHESIVE SOILS, WHICH EXTENDED TO BORING TERMINATION OR BEDROCK. CLAY, SILTY CLAY, AND SILT AND CLAY MIXTURE WITH CONSISTENCIES TYPICALLY RANGING FROM MEDIUM STIFF TO HARD WITH OCCASIONAL SOFT INTERVALS. OCCASIONALLY, NON-COHESIVE SOILS WERE ENCOUNTERED, CONSISTING OF SILT, SANDY SILT, SAND, OR GRAVEL. THE NON-COHESIVE SOILS HAD A LARGE RANGE OF RELATIVE DENSITIES, FROM LOOSE TO VERY DENSE.

GROUNDWATER WAS OBSERVED IN TEN BORINGS. BORINGS WERE BACKFILLED IMMEDIATELY AFTER COMPLETION; THEREFORE, A DELAYED GROUNDWATER READING WAS NOT TAKEN. WITHIN THESE TEN BORINGS, WATER WAS OBSERVED TYPICALLY BETWEEN 6 FEET TO 15 FEET BELOW GROUND SURFACE.

SPECIFICATIONS

ALL BORINGS WERE PERFORMED IN ACCORDANCE WITH THE 2021 ODOT SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS (SGE).

AVAILABLE INFORMATION

THE SOIL, BEDROCK, AND GROUNDWATER INFORMATION COLLECTED FOR THIS SUBSURFACE EXPLORATION THAT CAN BE CONVENIENTLY DISPLAYED ON THE SOIL PROFILE SHEETS HAS BEEN PRESENTED. GEOTECHNICAL REPORTS, IF PREPARED, ARE AVAILABLE FOR REVIEW ON THE OFFICE OF CONTRACT SALES WEBSITE.

LEGEND

DESCRIPTION	ODOT CLASS	CLASSIFIED MECH./VISUAL	
GRAVEL AND/OR STONE FRAGMENTS	*A-1-a*	*1*	*1*
GRAVEL AND/OR STONE FRAGMENTS WITH SAND	*A-1-b*	*4*	*6*
FINE SAND	*A-3*	*0*	*2*
COARSE AND FINE SAND	*A-3a*	*6*	*11*
GRAVEL AND/OR STONE FRAGMENTS WITH SAND, SILT AND CLAY	*A-2-6*	*1*	*4*
SANDY SILT	*A-4a*	*7*	*9*
SILT	*A-4b*	*5*	*0*
SILT AND CLAY	*A-6a*	*22*	*34*
SILTY CLAY	*A-6b*	*33*	*71*
ELASTIC CLAY	*A-7-5*	*2*	*2*
CLAY	*A-7-6*	*43*	*40*
	TOTAL	*124*	*70*

INTERBEDDED SHALE AND LIMESTONE

LIMESTONE

SHALE

PAVEMENT OR BASE = X = APPROXIMATE THICKNESS *VISUAL*

SOD AND TOPSOIL = X = APPROXIMATE THICKNESS *VISUAL*

BORING LOCATION - PLAN VIEW.

DRIVE SAMPLE AND/OR ROCK CORE BORING PLOTTED TO VERTICAL SCALE ONLY. HORIZONTAL BAR INDICATES A CHANGE IN STRATIGRAPHY.

WC INDICATES WATER CONTENT IN PERCENT.

N_{60} INDICATES STANDARD PENETRATION RESISTANCE NORMALIZED TO 60% DRILL ROD ENERGY RATIO.

X/Y/Z NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT):
X= NUMBER OF BLOWS FOR FIRST 6 INCHES.
Y= NUMBER OF BLOWS FOR SECOND 6 INCHES.
Z= NUMBER OF BLOWS FOR THIRD 6 INCHES.

W INDICATES FREE WATER ELEVATION.

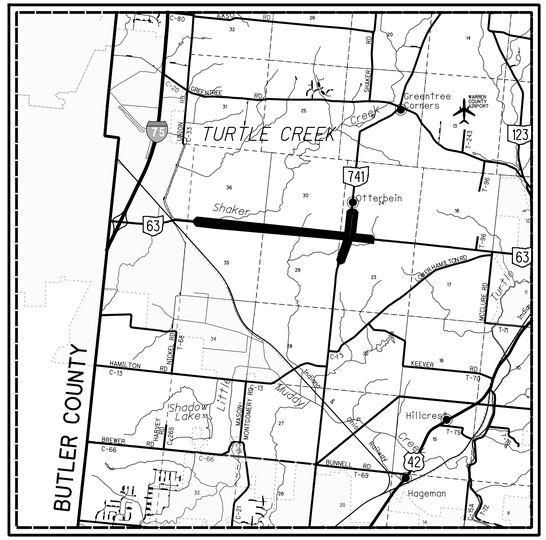
SS INDICATES A SPLIT SPOON SAMPLE.

NP INDICATES A NON-PLASTIC SAMPLE.

LOI INDICATES LOSS ON IGNITION LABORATORY TEST RESULT.

TR INDICATES TOP OF ROCK

INDICATES A PLASTIC MATERIAL WITH A MOISTURE CONTENT EQUAL TO OR GREATER THAN LL MINUS 3



LOCATION MAP
SCALE IN MILES
0 1 2 3 4

PARTICLE SIZE DEFINITIONS

12″	3″	2.0 mm	0.42 mm	0.074 mm	0.005 mm
BOULDERS	COBBLES	GRAVEL	COARSE SAND	FINE SAND	SILT / CLAY
		No. 10 SIEVE	No. 40 SIEVE	No. 200 SIEVE	

INDEX OF SHEETS

LOCATION FROM STA.	TO STA.	PLAN VIEW SHEET	PROFILE SHEET	CROSS-SECTION SHEET	CUT MAX.	FILL EMB. MAX.
SR 63						
100+00	256+00	8-13,15-18, 20,22,24	8-12, 14-17,19, 21,23,25,	28-35	8.1 FT	10.2 FT
SR 741						
903+00	927+00	26-27	26-27	36	0.6 FT	0.6 FT

RECON. - LA 05/05/2021
DRILLING - MSG 06/01/2021 TO 08/02/2021
DRAWN - RAM 02/9/2023
REVIEWED - GAB 02/9/2023

DESIGN AGENCY
Mannik Smith Group
TECHNICAL EXCELLENCE. CLIENT FOCUS.
www.MannikSmithGroup.com

PID NO. 112121

SOIL PROFILE

WAR-SR63-0.83

1 / 36

401 / 436

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SUMMARY OF TEST DATA
WAR-SR 63-0.83

EXPLORATION ID / STATION & OFFSET	FROM		TO	SAMPLE ID	N_{60}	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-001-0-21	1.00	-	2.50	SS-1	98	100	-	47	24	12	14	3	NP	NP	NP	4	A-1-b (0)	1500
STA 101+21, 37' RT.	2.50	-	4.00	SS-2	30	56	-	SAME AS SS-1								4	A-1-b (V)	
LATITUDE = 39.440100	4.00		5.50	SS-3	8	89	0.75	0	2	4	66	28	35	21	14	24	A-6a (10)	
LONGITUDE = -84.324885	5.50		7.00	SS-4	3	-	1.00	SAME AS SS-3								32	A-6a (V)	
B-002-0-21	1.00	-	2.50	SS-1	60	100	-	LIGHT BROWN AND GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, AGGREGATE BASE								5	A-1-b (V)	
STA 103+92, 25' LT.	2.50	-	4.00	SS-2	32	67	4.50	26	7	16	32	19	31	15	16	13	A-6b (5)	
LATITUDE = 39.440377	4.00	-	5.50	SS-3	32	39	2.25	41	7	8	26	18	35	20	15	27	A-6a (3)	100
LONGITUDE = -84.323970	5.50	-	7.00	SS-4	9	22	1.25	SAME AS SS-3								23	A-6a (V)	
B-003-0-21	1.00	-	2.50	SS-1	39	83	-	35	22	19	21	3	NP	NP	NP	6	A-1-b (0)	
STA 108+33, 22' RT.	2.50	-	4.00	SS-2	5	100	1.00	0	1	7	58	34	38	24	14	27	A-6a (10)	1500
LATITUDE = 39.440345	4.00	-	5.50	SS-3	8	89	1.50	MOTTLED BROWN AND GRAY, CLAY, TRACE SAND								36	A-7-6 (V)	
LONGITUDE = -84.322400	5.50	-	7.00	SS-4	9	100	1.75	SAME AS SS-3								28	A-7-6 (V)	
B-004-0-21	1.00	-	2.50	SS-1	10	50	2.50	0	1	5	60	34	39	25	14	31	A-6a (10)	100
STA 112+17, 38' RT.	2.50	-	4.00	SS-2	10	94	2.00	MOTTLED BROWN AND GRAY, SILT AND CLAY, TRACE SAND								26	A-7-6 (V)	
LATITUDE = 39.440301	4.00	-	5.50	SS-3	7	100	1.75	0	1	4	57	38	46	20	26	24	A-7-6 (16)	
LONGITUDE = -84.321049	5.50	-	7.00	SS-4	7	94	2.25	SAME AS SS-3								33	A-7-6 (V)	
B-005-0-21	1.00	-	2.50	SS-1	8	83	2.00	0	2	13	43	42	38	23	15	18	A-6a (10)	<100
STA 116+04, 41' RT.	2.50	-	4.00	SS-2	8	83	2.25	0	1	3	59	37	47	33	14	28	A-7-5 (11)	
LATITUDE = 39.440221	4.00	-	5.50	SS-3	8	100	2.25	SAME AS SS-2								24	A-7-5 (V)	
LONGITUDE = -84.319688	5.50	-	7.00	SS-4	6	100	0.75	SAME AS SS-2								27	A-7-5 (V)	
B-006-0-21	1.00	-	2.50	SS-1	48	83	-	GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, AGGREGATE BASE								6	A-1-b (V)	
STA 119+93, 30' LT.	2.50	-	4.00	SS-2	6	78	0.50	0	2	4	50	44	48	29	19	37	A-7-6 (13)	850
LATITUDE = 39.440336	4.00	-	5.50	SS-3	6	100	1.00	1	1	2	67	29	44	20	24	26	A-7-6 (14)	
LONGITUDE = -84.318296	5.50	-	7.00	SS-4	6	100	2.00	SAME AS SS-3								24	A-7-6 (V)	
B-007-0-21	1.00	-	2.50	SS-1	8	94	3.00	0	1	6	58	35	49	21	28	25	A-7-6 (17)	610
STA 123+98, 10' RT.	2.50	-	4.00	SS-2	8	100	1.50	0	2	4	54	40	39	19	20	22	A-6b (12)	
LATITUDE = 39.440142	4.00	-	5.50	SS-3	7	100	1.75	SAME AS SS-2								22	A-6b (V)	
LONGITUDE = -84.316875	5.50	-	7.00	SS-4	7	100	1.50	SAME AS SS-2								24	A-6b (V)	
B-008-0-21	1.00	-	2.50	SS-1	10	67	1.50	0	2	11	58	29	37	22	15	20	A-6a (10)	280
STA 127+84, 20' LT.	2.50	-	4.00	SS-2	10	67	2.00	SAME AS SS-1								25	A-6a (V)	
LATITUDE =39.440146	4.00	-	5.50	SS-3	7	100	2.25	1	3	9	48	39	42	20	22	22	A-7-6 (13)	
LONGITUDE = -84.315506	5.50	-	7.00	SS-4	5	100	1.50	SAME AS SS-3								22	A-7-6 (V)	
B-009-0-21	1.00	-	2.50	SS-1	10	56	2.50	0	1	3	56	40	47	31	16	25	A-7-5 (12)	160
STA 131+75, 13' RT.	2.50	-	4.00	SS-2	10	94	2.50	0	1	2	60	37	38	20	18	19	A-6b (11)	
LATITUDE = 39.439978	4.00	-	5.50	SS-3	10	94	2.00	SAME AS SS-2								21	A-6b (V)	
LONGITUDE = -84.314130	5.50	-	7.00	SS-4	11	100	1.75	SAME AS SS-2								22	A-6b (V)	
B-010-0-21	1.00	-	2.50	SS-1	8	78	1.00	5	15	18	46	16	27	18	9	17	A-4a (5)	250
STA 135+92, 9' LT.	2.50	-	4.00	SS-2	7	100	1.00	SAME AS SS-1								25	A-4a (V)	
LATITUDE = 39.439957	4.00	-	5.50	SS-3	10	100	1.50	18	12	19	38	25	26	17	9	16	A-6b (11)	
LONGITUDE = -84.312654	5.50	-	7.00	SS-4	5	100	0.25	SAME AS SS-2								13	A-6b (V)	
B-011-0-21	1.00	-	2.50	SS-1	4	83	1.00	BROWN, SILT AND CLAY, LITTLE SAND, TRACE GRAVEL								21	A-6a (V)	
STA 139+10, 36' RT.	3.50	-	5.00	SS-2	5	0	-	SAME AS SS-1								-	A-6a (V)	
LATITUDE = 39.439776	6.00	-	7.50	SS-3	6	83	0.25	SAME AS SS-1								16	A-6a (V)	
LONGITUDE = -84.311541	8.50	-	10.00	SS-4	35	100	4.5+	5	14	16	35	30	26	14	12	10	A-6a (7)	790
	11.00	-	12.50	SS-5	48	100	4.5+	13	14	16	31	26	25	14	11	9	A-6a (5)	
	13.50	-	15.00	SS-6	84	100	4.5+	SAME AS SS-5								9	A-6a (7)	
	16.00	-	17.50	SS-7	42	61	4.5+	SAME AS SS-5								9	A-6a (7)	
	18.50	-	20.00	SS-8	56	100	4.5+	SAME AS SS-5								10	A-6a (7)	
B-012-0-21	1.00	-	2.50	SS-1	8	100	0.50	6	15	20	46	13	25	17	8	14	A-4a (5)	220
STA 142+01, 21' LT.	2.50	-	4.00	SS-2	7	100	1.25	SAME AS SS-1								21	A-4a (V)	
LATITUDE = 39.439877	4.00	-	5.50	SS-3	8	83	0.25	1	2	6	72	19	28	20	8	27	A-4b (8)	
LONGITUDE = -84.310498	5.50	-	7.00	SS-4	7	78	1.75	BROWN, SILTY CLAY, TRACE SAND								12	A-6b (V)	
B-013-0-21	1.00	-	2.50	SS-1	7	89	2.25	BROWN, SILTY CLAY, TRACE SAND, TRACE GRAVEL								22	A-6b (V)	
STA 146+19, 19' RT.	2.50	-	4.00	SS-2	8	94	0.50	3	4	6	75	12	24	17	7	23	A-4b (8)	<100
LATITUDE = 39.439680	4.00	-	5.50	SS-3	15	89	0.50	9	10	15	43	23	23	14	9	16	A-4a (6)	
LONGITUDE = -84.309034	5.50	-	7.00	SS-4	49	89	4.5+	SAME AS SS-3								16	A-4a (V)	
	7.00	-	8.50	SS-5	65	56	-	SAME AS SS-3								16	A-4a (V)	
	8.50	-	10.00	SS-6	37	67	-	SAME AS SS-3								17	A-4a (V)	

NOTE: NO SHELBY TUBE SAMPLES (ST) WERE OBTAINED

SUMMARY OF TEST DATA
WAR-SR 63-0.83

EXPLORATION ID / STATION & OFFSET	FROM	-	TO	SAMPLE ID	N_{60}	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-014-0-21	1.00	-	2.50	SS-1	10	83	1.75	BROWN, SILTY CLAY, TRACE SAND								23	A-6b (V)	
STA 150+33, 23' RT.	3.50	-	5.00	SS-2	30	22	3.75	BROWN, SILTY CLAY, TRACE GRAVEL								14	A-6b (V)	
LATITUDE = 39.439583	6.00	-	7.50	SS-3	38	100	3.50	7	8	15	48	22	22	13	9	10	A-4a (7)	<100
LONGITUDE = -84.307574	8.50	-	10.00	SS-4	33	100	4.5+	10	10	13	38	29	27	15	12	16	A-6a (7)	
	11.00	-	11.50	SS-5	-	100	3.00	SAME AS SS-4								20	A-6a (V)	
	12.00	-	13.00	SS-6	-	100	-	SAME AS SS-4								19	A-6a (V)	
B-015-0-21	1.00	-	2.50	SS-1	2	61	0.25	4	5	18	53	20	27	16	11	17	A-6a (8)	140
STA 154+32, 30' LT.	2.50	-	4.00	SS-2	0	100	0.10	SAME AS SS-1								25	A-6a (V)	
LATITUDE = 39.439643	4.00	-	5.50	SS-3	0	100	0.10	3	7	11	52	27	33	19	14	27	A-6a (10)	
LONGITUDE = -84.306149	5.50	-	7.00	SS-4	20	100	1.50	SAME AS SS-3								24	A-6a (V)	
	8.50	-	10.00	SS-5	30	100	4.5+	SAME AS SS-3								10	A-6a (V)	
	11.00	-	12.50	SS-6	48	83	-	SAME AS SS-3								13	A-6a (V)	
	13.50	-	15.00	SS-7	110	100	-	GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED								13	ROCK (V)	
B-016-0-21	1.00	-	2.50	SS-1	14	78	2.50	5	7	13	44	31	35	18	17	17	A-6b (11)	
STA 154+23, 45' RT.	3.50	-	5.00	SS-2	12	100	3.75	0	2	7	60	31	30	18	12	18	A-6a (9)	340
LATITUDE = 39.439441	6.00	-	7.50	SS-3	48	83	1.25	SAME AS SS-2								21	A-6a (V)	
LONGITUDE = -84.306203	8.50	-	10.00	SS-4	51	72	4.5+	SAME AS SS-2								16	A-6a (V)	
	11.00	-	11.50	SS-5	-	100	4.5+	GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED								7	ROCK (V)	
	13.50	-	14.00	SS-6	-	0	-	SAME AS SS-5								-	ROCK (V)	
B-017-0-21	1.00	-	2.50	SS-1	8	100	1.50	BROWN, SILT AND CLAY, SOME SAND, TRACE GRAVEL								22	A-6a (V)	
STA 157+56, 20' RT.	3.50	-	5.00	SS-2	16	78	2.00	7	9	16	43	25	29	16	13	15	A-6a (8)	
LATITUDE = 39.439439	6.00	-	7.50	SS-3	61	78	4.5+	33	8	5	23	31	41	20	21	13	A-7-6 (8)	
LONGITUDE = -84.305019	8.50	-	10.00	SS-4	53	39	4.5+	SAME AS SS-3								15	A-7-6 (V)	
B-018-0-21	1.00	-	2.50	SS-1	12	72	2.50									21	A-6a (V)	
STA 161+05, 21' LT.	2.50	-	4.00	SS-2	15	89	2.50	10	9	16	40	25	29	15	14	13	A-6a (8)	340
LATITUDE = 39.439477	4.00	-	5.50	SS-3	20	100	3.00	SAME AS SS-2								12	A-6a (V)	
LONGITUDE = -84.303776	5.50	-	7.00	SS-4	42	100	4.5+	3	4	12	51	30	30	16	14	12	A-6a (10)	
	7.00	-	8.50	SS-5	35	100	4.5+	SAME AS SS-3								12	A-6a (V)	
	8.50	-	10.00	SS-6	60	67	-	BROWN AND GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND, SILT, AND								10	A-2-6 (V)	
B-019-0-21	1.00	-	2.50	SS-1	33	61	1.00	SAME AS SS-3								15	A-6b (V)	
STA 164+38, 7' RT.	3.50	-	5.00	SS-2	44	100	4.5+	SAME AS SS-3								11	A-6a (V)	
LATITUDE = 39.439333	6.00	-	7.50	SS-3	87	100	-	17	15	12	24	32	37	18	19	12	A-6b (8)	490
LONGITUDE = -84.302607	8.50	-	10.00	SS-4	60	100	4.5+	4	9	9	39	39	33	24	9	17	A-4a (8)	
	11.00	-	12.50	SS-5	75	100	-	16	GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED							16	ROCK (V)	
	13.50	-	15.00	SS-6	134	56	-	5	SAME AS SS-5							5	ROCK (V)	
B-020-0-21	1.00	-	2.50	SS-1	8	67	2.50	BROWN, SILTY CLAY, LITTLE SAND, TRACE GRAVEL, TRACE ORGANICS								15	A-6b (V)	
STA 164+96, 41' RT.	3.50	-	5.00	SS-2	33	94	4.5+	SAME AS SS-1								11	A-6b (V)	
LATITUDE = 39.439228	6.00	-	7.50	SS-3	60	100	4.5+	SAME AS SS-1								9	A-6b (V)	
LONGITUDE = -84.302412	8.50	-	10.00	SS-4	41	100	4.5+	SAME AS SS-1								10	A-6b (V)	
	11.00	-	12.50	SS-5	75	100	-	15	10	16	28	31	31	17	14	9	A-6a (6)	
	13.50	-	15.00	SS-6	-	100	-	SAME AS SS-5								10	A-6a (V)	
	16.00	-	17.50	SS-7	-	100	-	SAME AS SS-5								10	A-6a (V)	
	18.50	-	19.50	SS-8	-	100	-	4	11	20	29	36	32	17	15	11	A-6a (8)	
	21.00	-	22.00	SS-9	-	100	-	BROWN AND GRAY, GRAVEL AND/OR STONE FRAGMENTS								9	A-1-a (V)	
	23.50	-	25.00	SS-10	113	100	-	GRAY, SILT AND CLAY, LITTLE SAND, TRACE GRAVEL								16	A-6a (V)	
	26.00	-	27.50	SS-11	-	100	-	BROWN AND GRAY, SOME SAND, LITTLE GRAVEL								11	A-6a (V)	
	28.50	-	30.00	SS-12	-	100	-	BROWN, LITTLE SAND, TRACE GRAVEL								15	A-6a (V)	
B-021-0-21	1.00	-	2.50	SS-1	18	44	-	54	19	10	13	4	NP	NP	NP	4	A-1-b (0)	340
STA 167+32, 29' LT.	2.50	-	4.00	SS-2	5	0	-	SAME AS SS-1								-	A-1-b (V)	
LATITUDE = 39.439368	4.00	-	5.50	SS-3	5	89	1.25	3	4	9	59	25	38	18	20	21	A-6b (12)	
LONGITUDE = -84.301560	5.50	-	7.00	SS-4	18	78	0.75	SAME AS SS-3								24	A-6b (V)	
	8.50	-	10.00	SS-5	5	56	0.10	7	9	12	52	20	35	19	16	23	A-6b (10)	
	11.00	-	12.50	SS-6	10	100	1.50	SAME AS SS-5								23	A-6b (V)	
	13.50	-	15.00	SS-7	14	67	0.10	GRAY, SANDY SILT, LITTLE CLAY, LITTLE GRAVEL								24	A-4a (V)	
B-022-0-21	1.00	-	2.50	SS-1	8	78	-	BROWN, SANDY SILT, LITTLE CLAY								12	A-1-b (0)	
STA 167+27, 41' RT.	3.50	-	5.00	SS-2	11	83	3.00	10	29	18	20	23	53	24	29	20	A-1-b (V)	
LATITUDE = 39.439178	6.00	-	7.50	SS-3	-	100	3.00	BROWN, SILT AND CLAY, LITTLE SAND, TRACE GRAVEL								13	A-6b (12)	
LONGITUDE = -84.301598	8.50	-	10.00	SS-4	39	100	4.5+	3	5	14	49	29	30	16	14	12	A-6b (V)	
	11.00	-	12.50	SS-5	35	100	4.5+	SAME AS SS-4								12	A-6b (10)	
	13.50	-	15.00	SS-6	30	100	4.5+	SAME AS SS-4								13	A-6b (V)	
	16.00	-	17.50	SS-7	30	100	4.5+	SAME AS SS-4								13	A-4a (V)	

NOTE: NO SHELBY TUBE SAMPLES (ST) WERE OBTAINED

SUMMARY OF TEST DATA
WAR-SR 63-0.83

EXPLORATION ID / STATION & OFFSET	FROM	-	TO	SAMPLE ID	N_{60}	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-023-0-21	1.00	-	2.50	SS-1	15	39	2.75	BROWN, SILTY CLAY, LITTLE SAND, TRACE GRAVEL								20	A-6b (V)	
STA 170+18, 24' LT.	3.50	-	5.00	SS-2	26	89	-	SAME AS SS-3								12	A-3a (V)	
LATITUDE = 39.439295	6.00	-	7.50	SS-3	31	100	-	0	11	65	15	9	NP	NP	NP	8	A-3a (0)	180
LONGITUDE = -84.300552	8.50	-	10.00	SS-4	20	100	-	SAME AS SS-3								6	A-3a (V)	
	11.00	-	12.50	SS-5	29	89	-	0	13	69	12	9	NP	NP	NP	9	A-3a (0)	
	13.50	-	15.00	SS-6	31	100	-	SAME AS SS-5								7	A-3a (V)	
	16.00	-	17.50	SS-7	27	89	-	SAME AS SS-5								17	A-3a (V)	
	18.50	-	20.00	SS-8	16	100	-	SAME AS SS-5								23	A-3a (V)	
B-024-0-21	1.00	-	2.50	SS-1	7	100	2.00	MOTTLED BROWN AND GRAY, SILTY CLAY, TRACE SAND								22	A-6b (V)	
STA 171+43, 19' RT.	3.50	-	5.00	SS-2	23	100	2.25	SAME AS SS-1								19	A-6b (V)	
LATITUDE = 39.439153	6.00	-	7.50	SS-3	30	100	4.50	BROWN, SANDY SILT, LITTLE CLAY, LITTLE GRAVEL								17	A-4a (V)	
LONGITUDE = -84.300121	8.50	-	10.00	SS-4	31	100	4.50	SAME AS SS-3								13	A-4a (V)	
	11.00	-	12.50	SS-5	35	100	-	0	7	69	14	10	NP	NP	NP	11	A-3a (0)	150
	13.50	-	15.00	SS-6	54	100	-	0	0	74	19	7	NP	NP	NP	10	A-3a (0)	
	16.00	-	17.50	SS-7	39	100	-	SAME AS SS-6								8	A-3a (V)	
	18.50	-	20.00	SS-8	34	100	-	SAME AS SS-6								7	A-3a (V)	
B-025-0-21	1.00	-	2.50	SS-1	12	0	-	BROWN, SILTY CLAY, LITTLE SAND, LITTLE GRAVEL								-		
STA 172+07, 6' RT.	3.50	-	5.00	SS-2	16	67	3.00	SAME AS SS-1								14	A-6b (V)	
LATITUDE = 39.439209	6.00	-	7.50	SS-3	38	6	3.50	SAME AS SS-1								12	A-6b (V)	
LONGITUDE = -84.299890	8.50	-	10.00	SS-4	39	100	-	1	6	63	15	15	NP	NP	NP	10	A-3a (0)	100
	11.00	-	12.50	SS-5	34	100	-	0	14	61	12	13	NP	NP	NP	9	A-3a (0)	
	13.50	-	15.00	SS-6	31	100	-	SAME AS SS-5								10	A-3a (V)	
	16.00	-	17.50	SS-7	34	33	-	SAME AS SS-5								11	A-3a (V)	
	18.50	-	20.00	SS-8	30	100	-	SAME AS SS-5								10	A-3a (V)	
B-026-0-21	1.00	-	2.50	SS-1	11	50	0.50	16	9	9	51	15	29	19	10	19	A-4b (6)	750
STA 175+44, 8' LT.	3.50	-	5.00	SS-2	8	100	2.00	0	1	2	60	37	53	29	24	26	A-7-6 (16)	
LATITUDE = 39.439146	6.00	-	7.50	SS-3	19	72	4.50	SAME AS SS-2								14	A-7-6 (V)	
LONGITUDE = -84.298699	8.50	-	10.00	SS-4	67	100	-	BROWN, FINE SAND, TRACE SILT								7	A-3 (V)	
B-027-0-21	1.00	-	2.50	SS-1	4	89	0.50	13	17	10	54	6	28	19	9	13	A-4b (5)	580
STA 197+61, 20' RT.	3.50	-	5.00	SS-2	29	0	-	BROWN, SILTY CLAY, SOME SAND, LITTLE GRAVEL								-		
LATITUDE = 39.438985	6.00	-	7.50	SS-3	16	100	4.00	15	9	13	37	26	31	15	16	11	A-6b (8)	
LONGITUDE = -84.297233	8.50	-	10.00	SS-4	44	100	4.00	SAME AS SS-3								13	A-6b (V)	
B-028-0-21	1.00	-	2.50	SS-1	8	33	3.00	27	6	13	38	16	28	15	13	9	A-6a (5)	
STA 183+03, 8' LT.	2.50	-	4.00	SS-2	7	100	1.25	MOTTLED BROWN AND GRAY, CLAY, "AND" SILT, TRACE SAND								25	A-7-6 (V)	290
LATITUDE = 39.438990	4.00	-	5.50	SS-3	5	100	0.50	2	12	17	52	17	31	15	16	21	A-6b (9)	
LONGITUDE = -84.296021	5.50	-	7.00	SS-4	30	100	2.75	SAME AS SS-3								14	A-6b (V)	
B-029-0-21	1.00	-	2.50	SS-1	5	100	2.00	5	9	13	44	29	45	22	23	22	A-7-6 (14)	260
STA 187+60, 21' RT.	2.50	-	4.00	SS-2	7	89	-	15	34	16	32	3	28	16	12	20	A-2-6 (0)	
LATITUDE = 39.438810	4.00	-	5.50	SS-3	34	94	-	SAME AS SS-2								15	A-2-6 (V)	
LONGITUDE = -84.294415	5.50	-	7.00	SS-4	52	83	2.25	BROWN, SILTY CLAY, SOME SAND, SOME GRAVEL								13	A-6b (V)	
	7.00	-	8.50	SS-5	72	83	3.50	SAME AS SS-4								13	A-6b (V)	
B-030-0-21	1.00	-	2.50	SS-1	8	61	0.75	GRAY, SILTY CLAY, LITTLE SAND								22	A-6b (V)	
STA 191+06, 22' LT.	2.50	-	4.00	SS-2	7	100	1.25	0	1	2	58	39	50	19	31	27	A-7-6 (18)	160
LATITUDE = 39.438851	4.00	-	5.50	SS-3	5	100	1.00	0	1	1	58	40	-	-	-	29	A-7-6 (V)	
LONGITUDE = -84.293182	5.50	-	7.00	SS-4	5	100	0.75	0	0	2	67	31	52	19	33	28	A-7-6 (18)	
B-031-0-21	1.00	-	2.50	SS-1	14	67	1.00	BROWN, SILT AND CLYA, LITTLE SAND, TRACE GRAVEL								12	A-6a (V)	
STA 194+28, 24' LT.	2.50	-	4.00	SS-2	3	67	0.75	4	5	9	57	25	33	18	15	23	A-6a (10)	510
LATITUDE = 39.438785	4.00	-	5.50	SS-3	14	100	0.75	SAME AS SS-2								26	A-6a (V)	
LONGITUDE = -84.292043	5.50	-	7.00	SS-4	54	67	-	34	6	13	32	15	33	16	17	19	A-6b (5)	
	8.50	-	10.00	SS-5	33	89	4.5+	SAME AS SS-4								10	A-6b (V)	
	11.00	-	12.50	SS-6	27	83	4.5+	SAME AS SS-4								11	A-6b (V)	
	13.50	-	15.00	SS-7	30	100	4.5+	SAME AS SS-4								12	A-6b (V)	
B-032-0-21	1.00	-	2.50	SS-1	5	100	0.50	14	10	15	32	29	35	16	19	17	A-6b (9)	
STA 194+52, 50' RT.	3.50	-	5.00	SS-2	5	56	1.00	20	8	13	30	29	34	17	17	16	A-6b (10)	
LATITUDE = 39.438578	6.00	-	7.50	SS-3	34	100	4.5+	MOTTLED BROWN AND GRAY, CLAY, "AND" SILT, LITTLE SAND, LITTLE GRAVEL								12	A-7-6 (V)	
LONGITUDE = -84.291980	8.50	-	10.00	SS-4	33	100	4.50	SAME AS SS-3								12	A-7-6 (V)	
	11.00	-	12.50	SS-5	31	100	3.00	SAME AS SS-3								22	A-7-6 (V)	
	13.50	-	15.00	SS-6	29	100	4.00	SAME AS SS-3								20	A-7-6 (V)	

NOTE: NO SHELBY TUBE SAMPLES (ST) WERE OBTAINED

SUMMARY OF TEST DATA
WAR-SR 63-0.83

EXPLORATION ID / STATION & OFFSET	FROM	-	TO	SAMPLE ID	N_{60}	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-033-0-21	1.00	-	2.50	SS-1	15	0	-	MOTTLED BROWN AND GRAY, CLAY, "AND" SILT, TRACE SAND								-	-	
STA 198+25, 9' LT.	2.50	-	4.00	SS-2	8	78	1.00	0	1	1	61	37	46	21	25	24	A-7-6 (15)	180
LATITUDE = 39.438654	4.00	-	5.50	SS-3	3	89	0.25	0	1	4	69	26	41	19	22	26	A-7-6 (13)	
LONGITUDE = -84.290648	5.50	-	7.00	SS-4	49	100	4.5+	SAME AS SS-3								13	A-7-6 (V)	
B-034-0-21	1.00	-	2.50	SS-1	8	56	1.50	3	5	6	68	18	33	19	14	22	A-6a (10)	110
STA 201+81, 22' RT.	2.50	-	4.00	SS-2	29	100	4.5+	1	3	5	65	26	49	21	28	11	A-7-6 (17)	
LATITUDE = 39.438490	4.00	-	5.50	SS-3	33	100	4.5+	SAME AS SS-2								11	A-7-6 (V)	
LONGITUDE = -84.289400	5.50	-	7.00	SS-4	42	100	4.5+	SAME AS SS-2								10	A-7-6 (V)	
B-035-0-21	1.00	-	2.50	SS-1	10	0	-	MOTTLED BROWN AND GRAY, SILTY CLAY, SOME SAND, LITTLE GRAVEL								-	-	
STA 206+67, 9' LT.	2.50	-	4.00	SS-2	7	89	0.50	12	10	15	37	26	28	12	16	11	A-6b (8)	330
LATITUDE = 39.438467	4.00	-	5.50	SS-3	12	100	1.75	6	8	11	54	21	33	17	16	15	A-6b (10)	
LONGITUDE = -84.287677	5.50	-	7.00	SS-4	20	100	3.00	SAME AS SS-3								11	A-6b (V)	
B-036-0-21	1.00	-	2.50	SS-1	5	78	1.50	0	1	2	58	39	59	29	30	24	A-7-6 (20)	300
STA 210+45, 22' RT.	2.50	-	4.00	SS-2	5	89	1.25	1	9	17	42	31	36	17	19	20	A-6b (11)	
LATITUDE = 39.438298	4.00	-	5.50	SS-3	7	94	2.25	SAME AS SS-2								15	A-6b (V)	
LONGITUDE = -84.286352	5.50	-	7.00	SS-4	23	61	4.00	SAME AS SS-2								14	A-6b (V)	
B-037-0-21	1.00	-	2.50	SS-1	7	33	0.75	GRAY, SILT AND CLAY, LITTLE SAND, TRACE GRAVEL								17	A-6a (V)	
STA 213+99, 8' LT.	2.50	-	4.00	SS-2	15	100	0.75	43	8	11	25	13	28	17	11	10	A-6a (1)	170
LATITUDE = 39.438301	4.00	-	5.50	SS-3	12	100	0.75	0	25	29	32	14	21	15	6	10	A-4a (2)	
LONGITUDE = -84.285094	5.50	-	7.00	SS-4	33	100	4.5+	MOTTLED BROWN AND GRAY, SILT AND CLAY, SOME SAND, SOME GRAVEL								12	A-6a (V)	
B-038-0-21	1.00	-	2.50	SS-1	4	56	0.25	17	3	12	46	22	46	20	26	28	A-7-6 (14)	190
STA 217+42, 27' RT.	2.50	-	4.00	SS-2	23	67	3.50	3	9	15	39	34	35	15	20	11	A-6b (12)	
LATITUDE = 39.438129	4.00	-	5.50	SS-3	22	100	4.5+	SAME AS SS-2								18	A-6b (V)	
LONGITUDE = -84.283891	5.50	-	7.00	SS-4	26	100	4.5+	SAME AS SS-2								18	A-6b (V)	
B-039-0-21	1.00	-	2.50	SS-1	9	78	1.50	MOTTLED BROWN AND GRAY, CLAY, SOME SILT, TRACE SAND								19	A-7-6 (V)	
STA 218+97, 25' LT.	3.50	-	5.00	SS-2	9	78	2.25	0	4	4	34	58	55	21	34	21	A-7-6 (19)	
LATITUDE = 39.438235	6.00	-	7.50	SS-3	18	67	0.75	2	7	6	31	54	47	19	28	16	A-7-6 (17)	
LONGITUDE = -84.283331	8.50	-	10.00	SS-4	17	72	1.50	SAME AS SS-3								21	A-7-6 (V)	
	11.00	-	12.50	SS-5	68	17	1.75	SAME AS SS-3								21	A-7-6 (V)	
	13.50	-	15.00	SS-6	27	100	1.00	SAME AS SS-3								13	A-7-6 (V)	
B-040-0-21	1.00	-	2.50	SS-1	11	94	1.50	1	3	6	45	45	48	24	24	29	A-7-6 (15)	
STA 218+95, 61' RT.	3.50	-	5.00	SS-2	3	100	0.50	SAME AS SS-1								22	A-7-6 (V)	
LATITUDE = 39.438002	6.00	-	7.50	SS-3	42	67	1.00	37	5	7	22	29	43	20	23	14	A-7-6 (8)	
LONGITUDE = -84.283364	8.50	-	10.00	SS-4	-	100	4.5+	SAME AS SS-3								16	A-7-6 (V)	
	11.00	-	12.00	SS-5	-	100	-	SAME AS SS-3								11	ROCK (V)	
	13.50	-	14.50	SS-6	-	100	-	INTERBEDDED SHALE AND LIMESTONE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED								10	ROCK (V)	
	16.00	-	16.50	SS-7	-	100	-	SAME AS SS-6								12	ROCK (V)	
	18.50	-	19.50	SS-8	-	100	-	SAME AS SS-6								8	ROCK (V)	
	21.00	-	21.50	SS-9	-	83	-	SAME AS SS-6								11	ROCK (V)	
B-041-0-21	1.00	-	2.50	SS-1	11	72	2.50	MOTTLED BROWN AND GRAY, CLAY, SOME SILT, TRACE SAND, TRACE GRAVEL, FILL								21	A-7-6 (V)	
STA 221+40, 26' LT.	2.50	-	4.00	SS-2	11	72	3.50	9	4	6	34	47	43	19	24	20	A-7-6 (14)	<100
LATITUDE = 39.438184	4.00	-	5.50	SS-3	9	83	3.00	5	4	6	27	48	44	21	23	20	A-7-6 (14)	
LONGITUDE = -84.282473	5.50	-	7.00	SS-4	12	94	2.00	SAME AS SS-3								18	A-7-6 (V)	
	8.50	-	10.00	SS-5	20	89	4.25	SAME AS SS-3								19	A-7-6 (V)	
	11.00	-	12.50	SS-6	23	78	4.5+	DARK BROWN, SILTY CLAY, LITTLE SAND, LITTLE GRAVEL, FILL								23	A-6b (V)	
	13.50	-	15.00	SS-7	15	28	3.25	SAME AS SS-6								15	A-6b (V)	
	16.00	-	17.50	SS-8	57	100	1.75	BLACK, COARSE AND FINE SAND, "AND" ASPHALT FRAGMENTS, FILL								19	A-3a (8)	
	18.50	-	20.00	SS-9	45	100	4.5+	MOTTLED BROWN AND GRAY, SILTY CLAY, LITTLE SAND, LITTLE GRAVEL								18	A-6b (V)	
	21.00	-	23.50	SS-10	50	11	-	GRAY AND BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND, SILT, AND								14	A-2-6 (V)	
	23.50		25.00	SS-11	39	100	4.5+	MOTTLED BROWN AND GRAY, SILTY CLAY, TRACE SAND, TRACE GRAVEL								17	A-6b (V)	

NOTE: NO SHELBY TUBE SAMPLES (ST) WERE OBTAINED

SUMMARY OF TEST DATA
WAR-SR 63-0.83

EXPLORATION ID / STATION & OFFSET	FROM	-	TO	SAMPLE ID	N_{60}	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-042-0-21	1.00	-	2.50	SS-1	27	78	3.50	18	11	12	29	30	39	16	23	17	A-6b (10)	
STA 221+52, 83' RT.	3.50	-	5.00	SS-2	30	72	2.50	18	6	10	31	35	45	20	25	29	A-7-6 (13)	
LATITUDE = 39.437885	6.00	-	7.50	SS-3	87	67	3.00	INTERBEDDED SHALE AND LIMESTONE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED								24	ROCK (V)	
LONGITUDE = -84.282463	8.50	-	10.00	SS-4	-	100	-	SAME AS SS-3								10	ROCK (V)	
	11.00	-	11.50	SS-5	-	100	-	SAME AS SS-3								9	ROCK (V)	
	13.50	-	14.00	SS-6	-	100	-	SAME AS SS-3								5	ROCK (V)	
	16.00	-	16.50	SS-7	-	100	-	SAME AS SS-3								6	ROCK (V)	
	18.50	-	19.00	SS-8	-	60	-	SAME AS SS-3								5	ROCK (V)	
	21.00	-	21.50	SS-9	-	33	-	SAME AS SS-3								1	ROCK (V)	
	23.50	-	24.00	SS-10	-	75	-	SAME AS SS-3								8	ROCK (V)	
	26.00	-	26.50	SS-11	-	60	-	SAME AS SS-3								3	ROCK (V)	
	28.50	-	29.50	SS-12	-	80	-	SAME AS SS-3								5	ROCK (V)	
	31.00	-	31.50	SS-13	-	20	-	SAME AS SS-3								4	ROCK (V)	
	33.50	-	35.00	SS-14	-	80	-	SAME AS SS-3								4	ROCK (V)	
	36.00	-	36.50	SS-15	-	25	-	SAME AS SS-3								1	ROCK (V)	
B-043-0-21	1.00	-	2.50	SS-1	24	78	3.00	5	5	11	29	50	49	21	28	16	A-7-6 (17)	310
STA 224+46, 30' RT.	2.50	-	4.00	SS-2	35	67	4.25	0	7	7	28	58	49	21	28	20	A-7-6 (17)	
LATITUDE = 39.437962	4.00	-	5.50	SS-3	35	56	-	BROWN AND GRAY, GRAVEL AND/OR STONE FRAGMENTS WITH SAND, SILT, AND CLAY								3	A-2-6 (V)	
LONGITUDE = -84.281410	5.50	-	7.00	SS-4	50	56	-	BROWN AND GRAY, SILTY CLAY, SOME SAND, SOME STONE FRAGMENTS								8	A-6b (V)	
B-044-0-21	1.00	-	2.50	SS-1	14	83	2.50	BROWN AND GRAY, SILTY CLAY, TRACE SAND								16	A-6b (V)	
STA 228+14, 10' LT.	2.50	-	4.00	SS-2	24	100	4.00	1	16	23	51	9	19	13	6	6	A-4b (5)	230
LATITUDE = 39.437990	4.00	-	5.50	SS-3	6	100	1.25	14	12	12	48	14	27	17	10	13	A-4a (5)	
LONGITUDE = -84.280098	5.50	-	7.00	SS-4	14	100	2.25	MOTTLED BROWN AND GRAY, SILTY CLAY, TRACE SAND								26	A-6b (V)	
B-045-0-21	1.00	-	2.50	SS-1	1	100	0.25	1	3	6	36	54	59	23	36	23	A-7-6 (20)	160
STA 228+93, 67' RT.	3.50	-	5.00	SS-2	7	100	1.75	SAME AS SS-1								32	A-7-6 (V)	
LATITUDE = 39.437762	6.00	-	7.50	SS-3	68	100	4.00	SAME AS SS-1								13	A-7-6 (V)	
LONGITUDE = -84.279844	8.50	-	9.00	SS-4	-	100	-	SAME AS SS-1								14	A-7-6 (V)	
B-046-0-21	1.00	-	2.50	SS-1	10	67	1.25	0	1	4	60	35	40	18	22	23	A-6b (13)	130
STA 231+53, 45' RT.	3.50	-	5.00	SS-2	19	94	3.50	SAME AS SS-1								18	A-6b (V)	
LATITUDE = 39.437766	6.00	-	7.00	SS-3	-	100	-	LIMESTONE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE								2	ROCK (V)	
LONGITUDE = -84.278919	7.00	-	7.30	SS-4	-	100	-	SAME AS SS-3								6	ROCK (V)	
B-047-0-21	1.00	-	1.50	SS-1	-	100	1.50	SAME AS SS-2								26	A-6b (V)	
STA 234+32, 88' LT.	3.50	-	5.00	SS-2	72	67	4.5+	24	7	9	34	26	36	18	18	5	A-6b (8)	
LATITUDE = 39.438070	6.00	-	7.00	SS-3	-	92	-	LIMESTONE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED, LAMINATED								7	ROCK (V)	
LONGITUDE = -84.277897	8.50	-	10.00	SS-4	-	100	-	SAME AS SS-3								9	ROCK (V)	
	11.00	-	12.50	SS-5	-	93	-	SAME AS SS-3								7	ROCK (V)	
	13.50	-	14.50	SS-6	-	100	-	SAME AS SS-3								5	ROCK (V)	
	16.00	-	17.00	SS-7	-	100	-	INTERBEDDED SHALE AND LIMESTONE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED								7	ROCK (V)	
	18.50	-	19.00	SS-8	-	100	-	SAME AS SS-7								2	ROCK (V)	
	21.00	-	21.50	SS-9	-	100	-	SAME AS SS-7								5	ROCK (V)	
	23.50		25.00	SS-10	-	59	-	SAME AS SS-7								4	ROCK (V)	
B-048-0-21	1.00	-	2.50	SS-1	8	56	1.50	SAME AS SS-6								17	A-6b (V)	
STA 234+20, 20' RT.	3.50	-	5.00	SS-2	8	56	4.5+	SAME AS SS-6								20	A-6b (V)	
LATITUDE = 39.437777	6.00	-	7.50	SS-3	11	78	-	SAME AS SS-6								17	A-6b (V)	
LONGITUDE = -84.277967	8.50	-	10.00	SS-4	6	67	-	SAME AS SS-6								17	A-6b (V)	
	11.00	-	12.50	SS-5	11	94	-	SAME AS SS-6								30	A-6b (V)	
	13.50	-	15.00	SS-6	35	100	-	7	10	13	36	34	40	18	22	11	A-6b (12)	
	16.00	-	17.50	SS-7	120	100	-	SAME AS SS-6								12	A-6b (V)	
	18.50	-	20.00	SS-8	-	100	-	LIMESTONE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED, LAMINATED								7	ROCK (V)	
	21.00	-	22.00	SS-9	-	100	-	SAME AS SS-8								7	ROCK (V)	
	23.50	-	24.00	SS-10	-	100	-	SAME AS SS-8								4	ROCK (V)	
	26.00	-	26.50	SS-11	-	100	-	SAME AS SS-8								4	ROCK (V)	
	28.50	-	29.00	SS-12	-	100	-	SAME AS SS-8								3	ROCK (V)	
	31.00	-	31.50	SS-13	-	67	-	SAME AS SS-8								3	ROCK (V)	
	33.50	-	34.00	SS-14	-	67	-	SAME AS SS-8								5	ROCK (V)	
	36.00	-	36.50	SS-15	-	67	-	SAME AS SS-8								5	ROCK (V)	
	38.50	-	39.00	SS-16	-	100	-	SAME AS SS-8								3	ROCK (V)	

NOTE: NO SHELBY TUBE SAMPLES (ST) WERE OBTAINED

SUMMARY OF TEST DATA
WAR-SR 63-0.83

EXPLORATION ID / STATION & OFFSET	FROM	-	TO	SAMPLE ID	N_{60}	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-049-0-21	1.00	-	2.50	SS-1	8	61	-	75	11	4	9	1	NP	NP	NP	5	A-1-a (0)	
STA 235+02, 14' RT.	3.50	-	5.00	SS-2	8	33	-	68	7	3	12	10	NP	NP	NP	16	A-1-b (0)	
LATITUDE = 39.4377777	6.00	-	7.50	SS-3	7	67	-	GRAY, COURSE AND FINE SAND, TRACE SILT								14	A-3a (V)	
LONGITUDE = -84.277676	8.50	-	10.00	SS-4	39	89	3.25	MOTTLED BROWN AND GRAY, SILTY CLAY, TRACE SAND, TRACE GRAVEL								20	A-6b (V)	
B-050-0-21	1.00	-	2.50	SS-1	24	78	-	BLACK AND GRAY, GRAVEL AND/OR STONE FRAGMENTS WITH SAND, TRACE SILT, TRACE CLAY								6	A-1-b (V)	
STA 238+45, 24' RT.	2.50	-	4.00	SS-2	8	67	1.75	3	4	4	57	32	48	19	29	20	A-7-6 (17)	
LATITUDE = 39.437682	4.00	-	5.50	SS-3	30	56	2.75	SAME AS SS-2								16	A-7-6 (V)	
LONGITUDE = -84.276466	5.50	-	7.00	SS-4	37	72	4.5+	SAME AS SS-2								27	A-7-6 (V)	
B-051-0-21	1.00	-	2.50	SS-1	14	56	-	GRAY, GRAVEL AND/OR STONE FRAGMENTS WITH SAND, TRACE SILT, TRACE CLAY								3	A-1-b (V)	
STA 241+67, 12' LT.	2.50	-	4.00	SS-2	10	67	1.25	3	3	4	56	34	44	19	25	22	A-7-6 (15)	
LATITUDE = 39.437717	4.00	-	5.50	SS-3	11	100	2.50	0	3	11	36	50	51	21	30	21	A-7-6 (18)	
LONGITUDE = -84.275322	5.50	-	7.00	SS-4	27	72	2.25	SAME AS SS-3								20	A-7-6 (V)	
B-052-0-21	1.00	-	2.50	SS-1	19	72	2.50	23	10	9	38	20	39	17	22	15	A-6b (9)	150
STA 245+08, 18' RT.	2.50	-	4.00	SS-2	15	100	2.00	SAME AS SS-1								12	A-6b (V)	
LATITUDE = 39.437568	4.00	-	5.50	SS-3	11	100	2.00	4	6	10	50	30	38	17	21	16	A-6b (12)	
LONGITUDE = -84.274126	5.50	-	7.00	SS-4	15	83	4.00	SAME AS SS-3								13	A-6b (V)	
B-053-0-21	1.00	-	2.50	SS-1	20	67	1.25	24	9	6	26	35	49	21	28	13	A-7-6 (14)	
STA 247+49, 91' RT.	3.50	-	5.00	SS-2	68	100	4.5+	SAME AS SS-1								3	A-7-6 (V)	
LATITUDE = 39.437318	6.00	-	6.50	SS-3	-	60	-	LIMESTONE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED								8	ROCK (V)	
LONGITUDE = -84.273296	8.50	-	9.00	SS-4	-	100	-	SAME AS SS-3								21	ROCK (V)	
	11.00	-	11.50	SS-5	-	0	-	SAME AS SS-3								-	ROCK (V)	
	13.50	-	14.00	SS-6	-	100	-	SAME AS SS-3								3	ROCK (V)	
	16.00	-	16.50	SS-7	-	100	-	SAME AS SS-3								1	ROCK (V)	
	18.50	-	19.00	SS-8	-	100	-	SAME AS SS-3								-	ROCK (V)	
	21.00	-	21.50	SS-9	-	100	-	SAME AS SS-3								3	ROCK (V)	
	23.50	-	24.00	SS-10	-	100	-	SAME AS SS-3								3	ROCK (V)	
B-054-0-21	1.00	-	2.50	SS-1	45	100	4.00	SAME AS SS-2								22	A-7-6 (V)	
STA 247+65, 83' LT.	3.50	-	4.50	SS-2	-	100	-	2	6	3	38	51	42	22	20	9	A-7-6 (12)	
LATITUDE = 39.437792	6.00	-	7.00	SS-3	-	100	-	LIMESTONE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED, LAMINATED								9	ROCK (V)	
LONGITUDE = -84.273190	8.50	-	9.50	SS-4	-	100	-	SAME AS SS-3								7	ROCK (V)	
	11.00	-	11.50	SS-5	-	100	-	SAME AS SS-3								5	ROCK (V)	
	13.50	-	14.00	SS-6	-	100	-	INTERBEDDED SHALE AND LIMESTONE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED								6	ROCK (V)	
	16.00	-	17.00	SS-7	-	100	-	SAME AS SS-6								8	ROCK (V)	
	18.50	-	19.00	SS-8	-	100	-	SAME AS SS-6								5	ROCK (V)	
	21.00	-	21.50	SS-9	-	100	-	SAME AS SS-6								5	ROCK (V)	
	23.50	-	24.00	SS-10	-	100	-	SAME AS SS-6								3	ROCK (V)	
B-055-0-21	1.00	-	2.50	SS-1	22	89	3.00	34	10	8	29	19	48	19	29	13	A-7-6 (9)	
STA 249+49, 6' LT.	2.50	-	4.00	SS-2	27	100	4.5+	12	12	12	40	24	32	13	19	12	A-6b (9)	200
LATITUDE = 39.437542	4.00	-	5.50	SS-3	26	100	4.5+	SAME AS SS-2								11	A-6b (V)	
LONGITUDE = -84.272560	5.50	-	7.00	SS-4	24	72	4.5+	SAME AS SS-2								12	A-6b (V)	
B-056-0-21	1.00	-	2.50	SS-1	59	83	4.5+	AGGREGATE BASE								3	A-7-6 (V)	
STA 252+87, 9' RT.	2.50	-	4.00	SS-2	12	67	3.25	2	3	7	55	33	58	19	39	20	A-7-6 (20)	230
LATITUDE = 39.437429	4.00	-	5.50	SS-3	3	83	0.25	14	26	8	38	14	43	18	25	23	A-7-6 (9)	
LONGITUDE = -84.271373	5.50	-	7.00	SS-4	18	89	2.00	SAME AS SS-3								17	A-7-6 (V)	
B-057-0-21	1.00	-	2.50	SS-1	10	67	3.00	12	6	5	27	50	52	19	33	20	A-7-6 (18)	
STA 903+16, 13' LT.	2.50	-	4.00	SS-2	12	100	3.50	17	6	6	36	35	40	17	23	18	A-6b (12)	130
LATITUDE = 39.435460	4.00	-	5.50	SS-3	23	56	3.00	SAME AS SS-2								19	A-6b (V)	
LONGITUDE = -84.280278	5.50	-	7.00	SS-4	15	94	4.00	SAME AS SS-2								16	A-6b (V)	
B-058-0-21	1.00	-	2.50	SS-1	14	78	4.25	AGGREGATE BASE AND SAME AS SS-2								19	A-6b (V)	
STA 906+52, 8' RT.	2.50	-	4.00	SS-2	12	100	3.50	7	11	15	45	22	31	15	16	15	A-6b (9)	190
LATITUDE = 39.436286	4.00	-	5.50	SS-3	15	100	4.00	6	5	3	59	27	48	19	29	15	A-7-6 (17)	
LONGITUDE = -84.279754	5.50	-	7.00	SS-4	19	56	4.00	SAME AS SS-3								11	A-7-6 (V)	
B-059-0-21	1.00	-	2.50	SS-1	18	44	3.50	8	8	9	45	30	46	19	27	19	A-7-6 (16)	230
STA 909+73, 13' LT.	2.50	-	4.00	SS-2	15	100	4.00	10	6	7	38	39	40	17	23	14	A-6b (13)	
LATITUDE = 39.437156	4.00	-	5.50	SS-3	19	33	3.00	SAME AS SS-2								16	A-6b (V)	
LONGITUDE = -84.279583	5.50	-	7.00	SS-4	20	56	3.75	SAME AS SS-2								19	A-6b (V)	

NOTE: NO SHELBY TUBE SAMPLES (ST) WERE OBTAINED

SUMMARY OF TEST DATA
WAR-SR 63-0.83

EXPLORATION ID / STATION & OFFSET	FROM	-	TO	SAMPLE ID	N_{60}	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-060-0-21	1.00	-	2.50	SS-1	17	67	4.5+	14	12	9	36	29	37	13	24	11	A-6b (12)	<100
STA 910+41, 22' RT.	3.50	-	5.00	SS-2	56	89	3.50	16	10	9	31	34	40	17	23	15	A-6b (11)	
LATITUDE = 39.437334	6.00	-	7.50	SS-3	69	22	3.00	SAME AS SS-2								12	A-6b (V)	
LONGITUDE = -84.279433	8.50	-	10.00	SS-4	21	83	3.25	SAME AS SS-2								13	A-6b (V)	
	11.00	-	12.50	SS-5	24	100	4.50	SAME AS SS-2								17	A-6b (V)	
	13.50	-	15.00	SS-6	30	10	4.5+	SAME AS SS-2								12	A-6b (V)	
	16.00	-	17.50	SS-7	54	100	4.5+	SAME AS SS-2								10	A-6b (V)	
	18.50	-	20.00	SS-8	68	100	4.5+	SAME AS SS-2								8	A-6b (V)	
	21.00	-	22.50	SS-9	53	100	4.5+	SAME AS SS-2								13	A-6b (V)	
	23.50	-	25.00	SS-10	75	100	4.5+	SAME AS SS-2								12	A-6b (V)	
B-061-0-21	1.00	-	2.50	SS-1	32	67	1.25	4	4	9	40	43	54	23	31	20	A-7-6 (19)	
STA 910+50, 74' RT.	3.50	-	5.00	SS-2	17	100	1.00	SAME AS SS-4								14	A-6b (V)	
LATITUDE = 39.437344	6.00	-	7.50	SS-3	35	78	3.50	SAME AS SS-4								12	A-6b (V)	
LONGITUDE = -84.279247	8.50	-	10.00	SS-4	41	100	4.50	28	18	15	20	19	34	17	17	8	A-6b (2)	
	11.00	-	12.50	SS-5	47	100	-	SHALE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED								10	ROCK (V)	
	13.50	-	15.00	SS-6	65	100	-	SAME AS SS-5								7	ROCK (V)	
	16.00	-	17.50	SS-7	-	100	-	SAME AS SS-5								8	ROCK (V)	
	18.50	-	19.50	SS-8	-	100	-	INTERBEDDED SHALE AND LIMESTONE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED								1	ROCK (V)	
	21.00	-	22.00	SS-9	-	80	-	SAME AS SS-8								3	ROCK (V)	
	23.50	-	24.00	SS-10	-	100	-	SAME AS SS-8								3	ROCK (V)	
	26.00	-	26.50	SS-11	-	75	-	SAME AS SS-8								2	ROCK (V)	
B-062-0-21	1.00	-	2.50	SS-1	27	67	4.5+	10	6	3	30	51	45	20	25	17	A-7-6 (15)	220
STA 916+86, 23' RT.	2.50	-	4.00	SS-2	26	100	4.5+	0	2	2	45	51	41	21	20	12	A-7-6 (12)	
LATITUDE = 39.439096	4.00	-	4.50	SS-3	-	86	4.5+	SAME AS SS-2								12	A-7-6 (V)	
LONGITUDE = -84.279226	4.50	-	6.00	SS-4	-	100	-	LIMESTONE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED, LAMINATED								12	ROCK (V)	
	6.00	-	6.50	SS-5	-	100	-	SAME AS SS-4								9	ROCK (V)	
	6.50	-	7.80	SS-6	-	0	-	SAME AS SS-4								-	ROCK (V)	
B-063-0-21	1.00	-	2.50	SS-1	24	67	4.5+	27	11	6	22	34	40	16	27	9	A-7-6 (16)	320
STA 920+57, 7' RT.	2.50	-	4.00	SS-2	48	89	-	3	4	2	44	47	38	19	19	13	A-6b (13)	
LATITUDE = 39.440116	4.00	-	5.50	SS-3	33	67	-	LIMESTONE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED, LAMINATED								12	A-6b (V)	
LONGITUDE = -84.279181	5.50	-	6.00	SS-4	-	-	-	SAME AS SS-3								1	A-6b (V)	
B-064-0-21	1.00	-	2.50	SS-1	54	61	4.5+	AGGREGATE BASE AND SAME AS SS-2								11	A-7-6 (V)	
STA 923+21, 14' LT.	2.50	-	4.00	SS-2	33	56	4.5+	28	5	3	22	42	46	19	27	14	A-7-6 (13)	250
LATITUDE = 39.440843	4.00	-	5.50	SS-3	53	67	4.5+	1	1	1	36	61	49	22	27	18	A-7-6 (17)	
LONGITUDE = -84.279191	5.50	-	7.00	SS-4	48	6	-	SAME AS SS-3								16	A-7-6 (V)	
B-065-0-21	1.00	-	2.50	SS-1	8	100	2.75	2	3	10	57	28	62	20	42	18	A-7-6 (20)	150
STA 926+98, 9' RT.	2.50	-	4.00	SS-2	22	44	3.25	SAME AS SS-3								15	A-6b (V)	
LATITUDE = 39.441870	4.00	-	5.50	SS-3	24	100	3.25	7	12	15	37	29	34	16	18	15	A-6b (9)	
LONGITUDE = -84.279018	5.50	-	7.00	SS-4	20	89	4.5+	SAME AS SS-3								12	A-6b (V)	

NOTE: NO SHELBY TUBE SAMPLES (ST) WERE OBTAINED

HORIZONTAL SCALE IN FEET

DRAWN RAM
CHECKED GAB

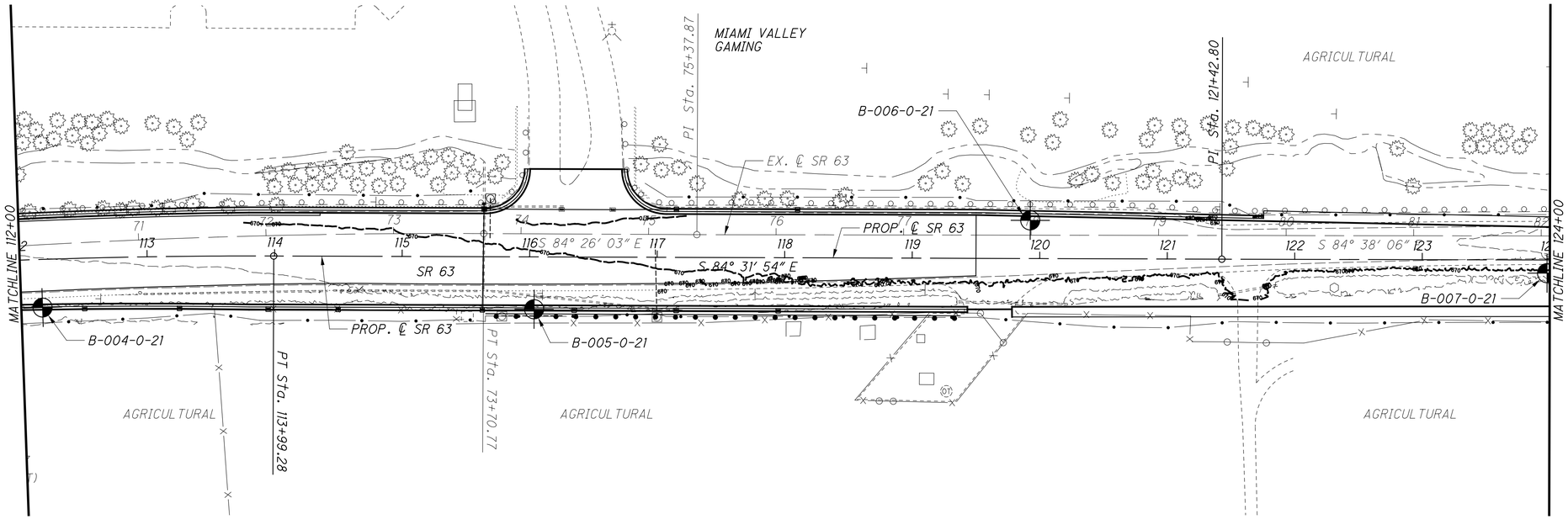
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STA. 100+00 TO STA. 112+00

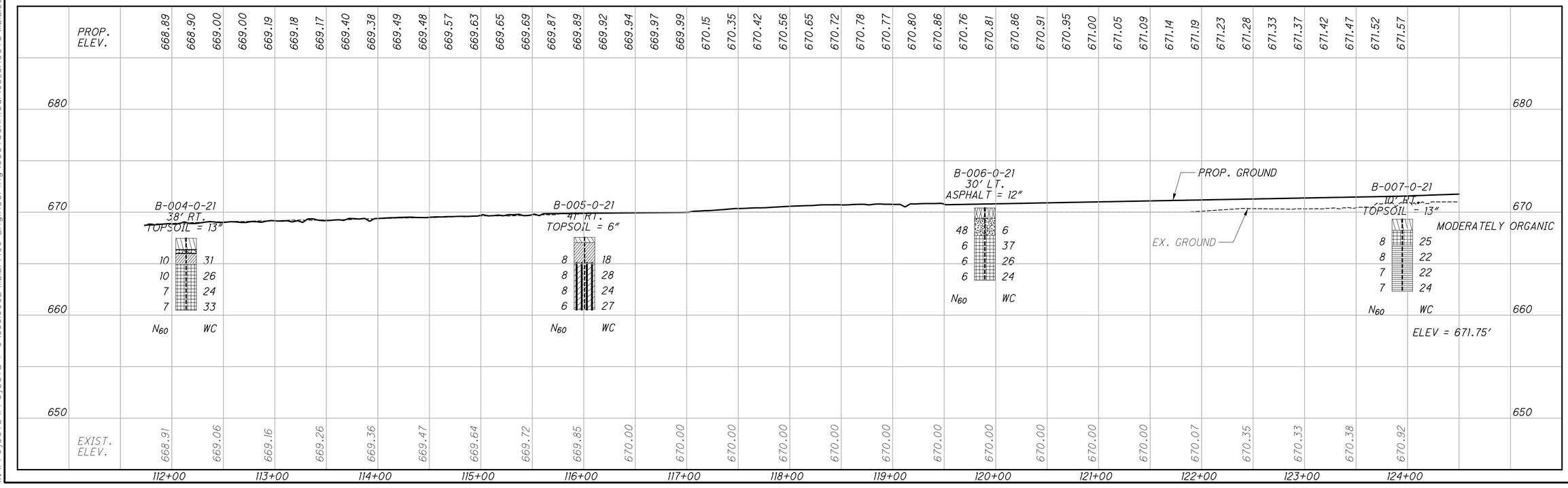
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HORIZONTAL SCALE IN FEET
0 25 50 100

DRAWN RAM
CHECKED GAB

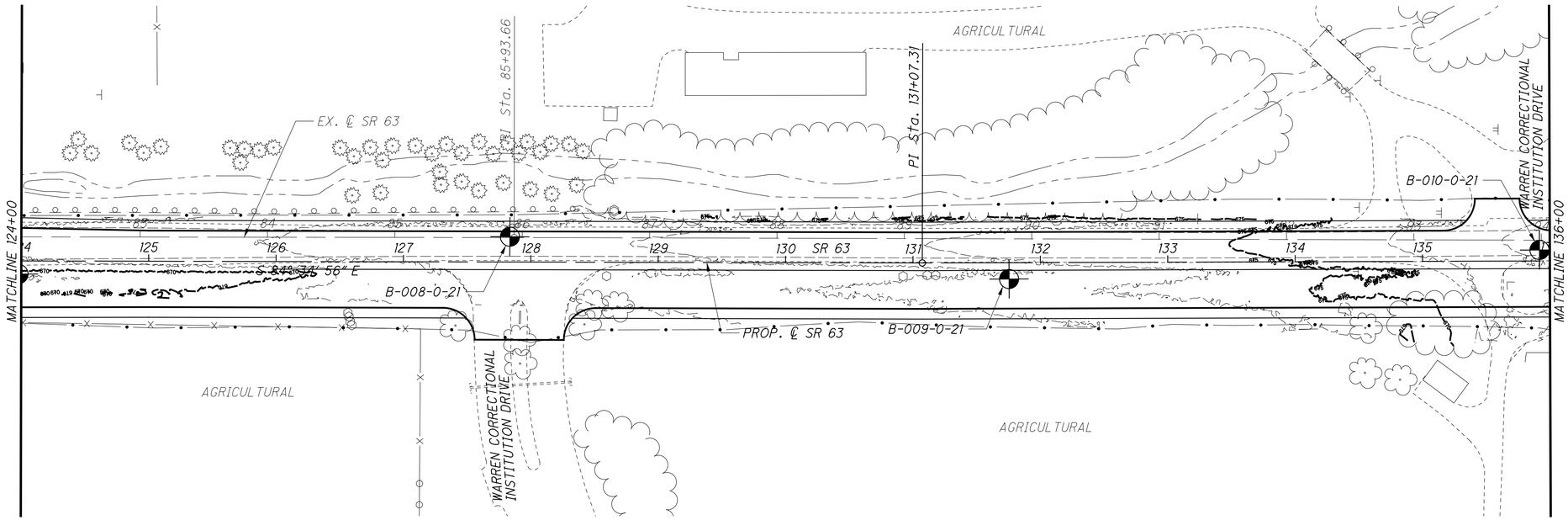
SOIL PROFILE - S.R. 63
STA. 112+00 TO STA. 124+00

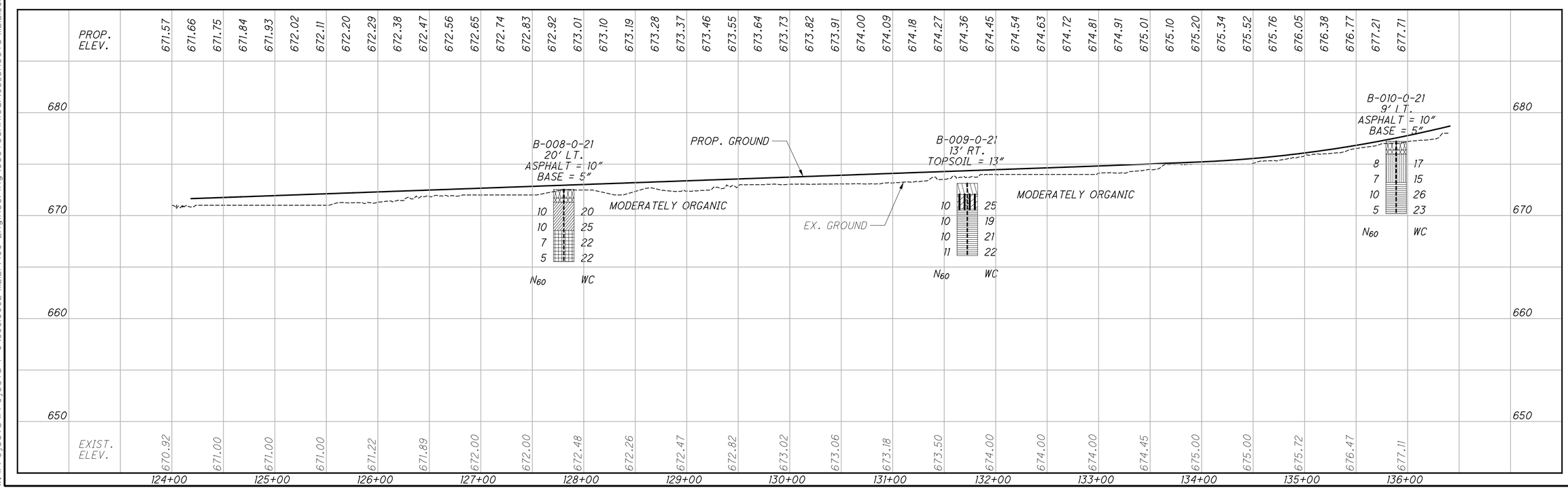
WAR-SR63-0.83

9 / 36

409 / 436

W:\Projects\Projects F-JVJ0810002\II2I2\V400-Engineering\Geotechnical\05_Sheets\II2I2L_GP02.dgn II2I2L_GP02 2/9/2023 1:24:22 PM rmurray





SOIL PROFILE - S.R. 63
STA. 124+00 TO STA. 136+00

WAR-SR63-0.83

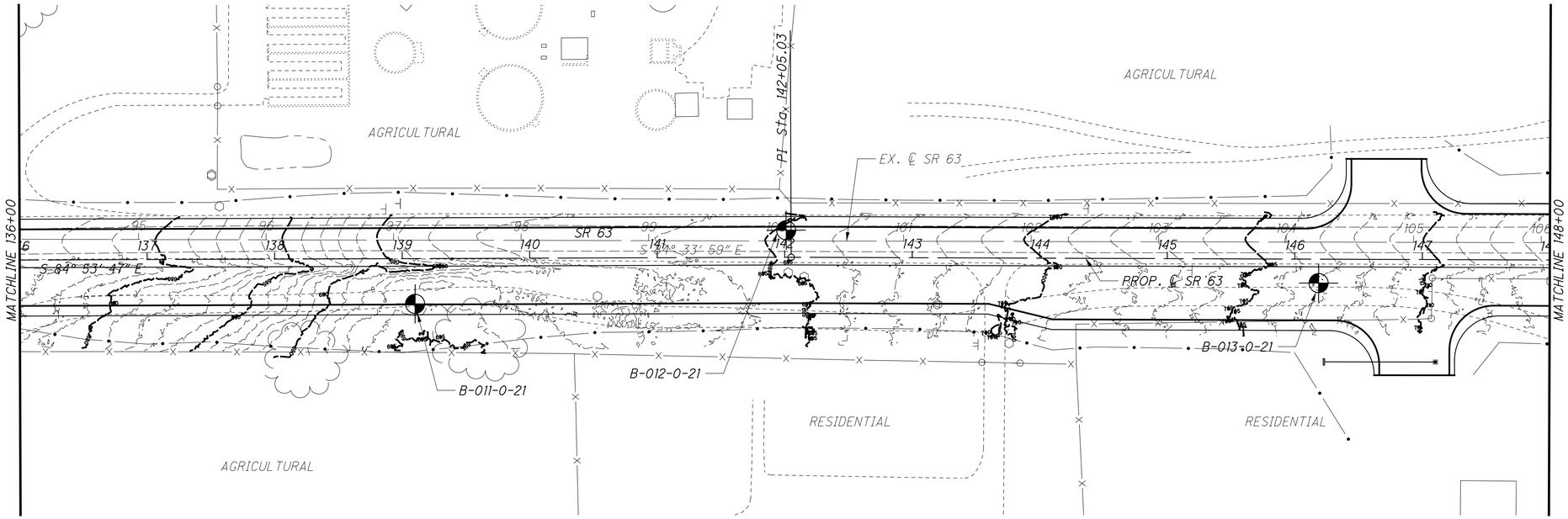
DRAWN RAM
CHECKED GAB

HORIZONTAL SCALE IN FEET
0 25 50 100

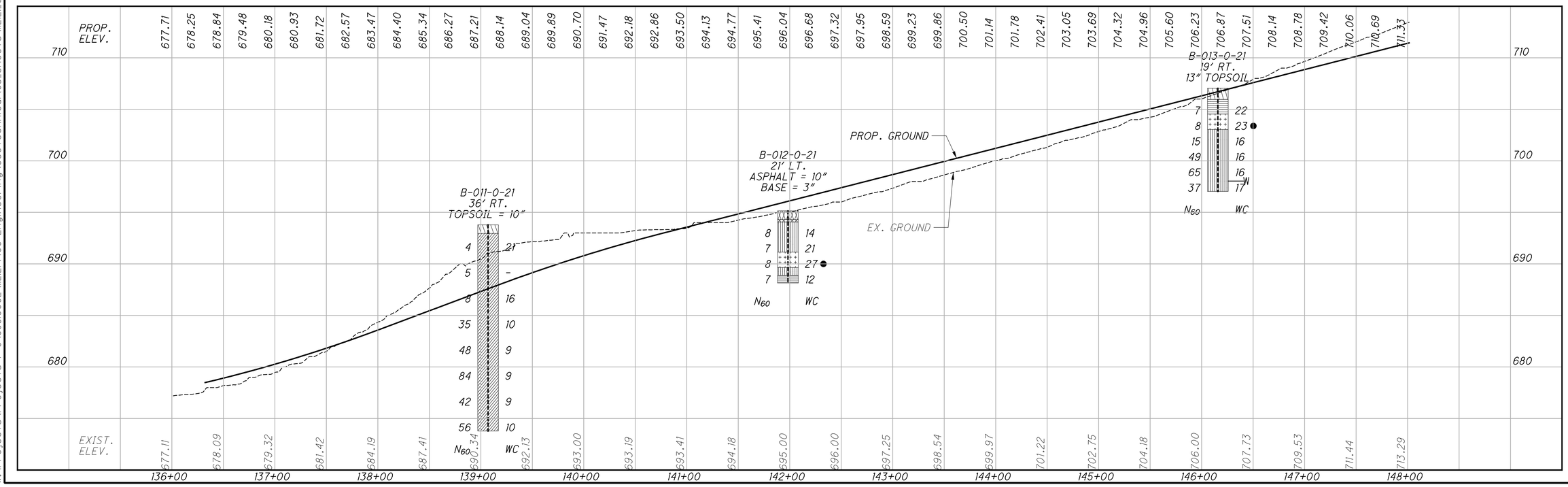
10 / 36

410 / 436

W:\Projects\Projects F-JVJ0810002\II2I2I\400-Engineering\Geotechnical\05_Sheets\II2I2I_GP03.dgn II2I2I_GP03 2/9/2023 1:24:26 PM rmurray



FOR SOIL BORING CROSS SECTIONS, SEE SHEET 28



N

HORIZONTAL SCALE IN FEET
0 25 50 100

DRAWN RAM
CHECKED GAB

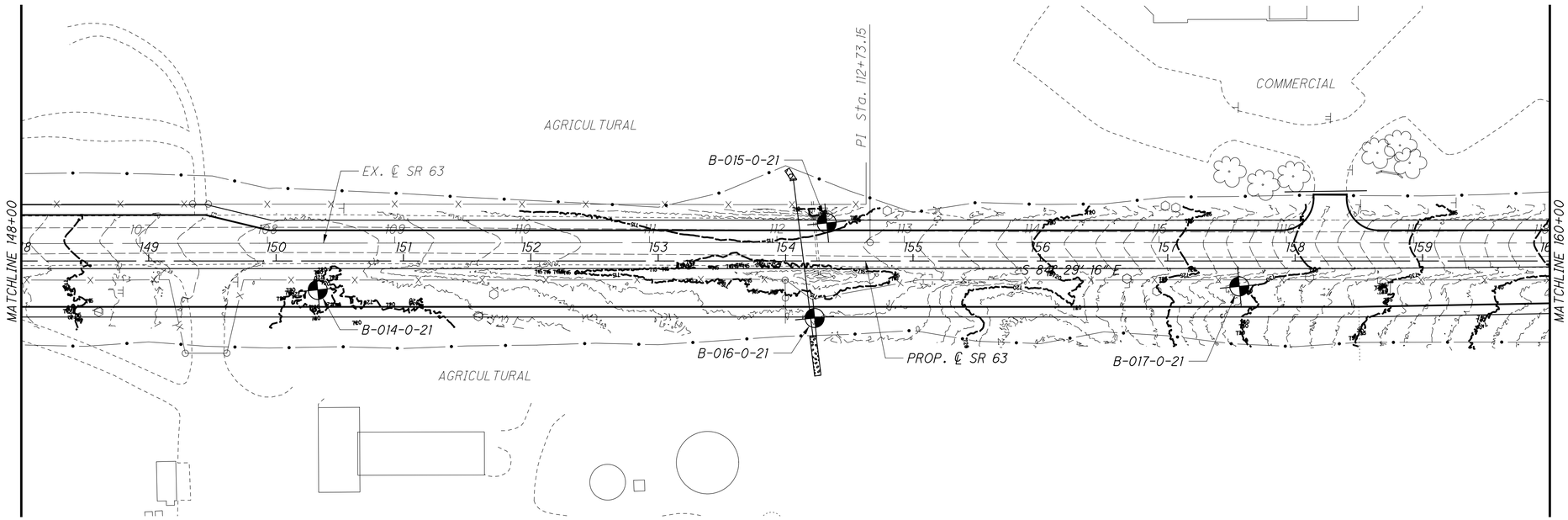
SOIL PROFILE - S.R. 63
STA. 136+00 TO STA. 148+00

WAR-SR63-0.83

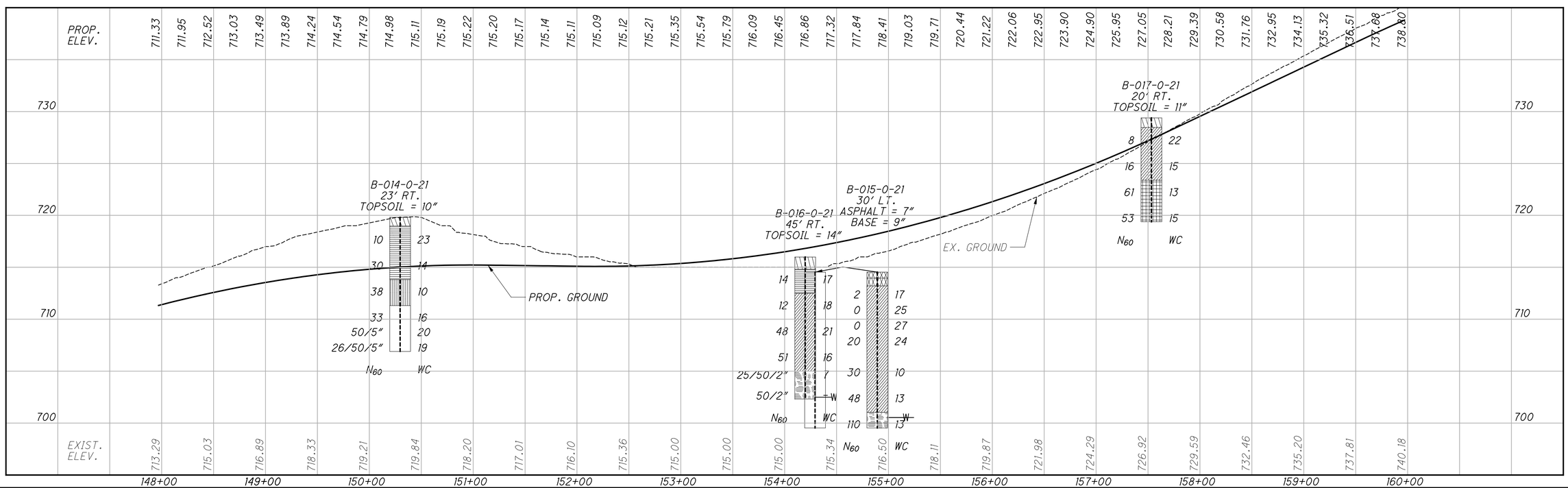
11 / 36

411 / 436

W:\Projects\Projects F-JNJ0810002\II2I2\N400-Engineering\Geotechnical\05_Sheets\II2I2L_GP04.dgn II2I2L_GP04 2/9/2023 1:24:31 PM rmurray



FOR SOIL BORING CROSS SECTIONS, SEE SHEET 29



W:\Projects\Projects F-JVJ0810002\JI2I2\400-Engineering\Geotechnical\05_Sheets\JI2I2L_GP05.dgn JI2I2L_GP05 2/9/2023 1:24:35 PM rmurray

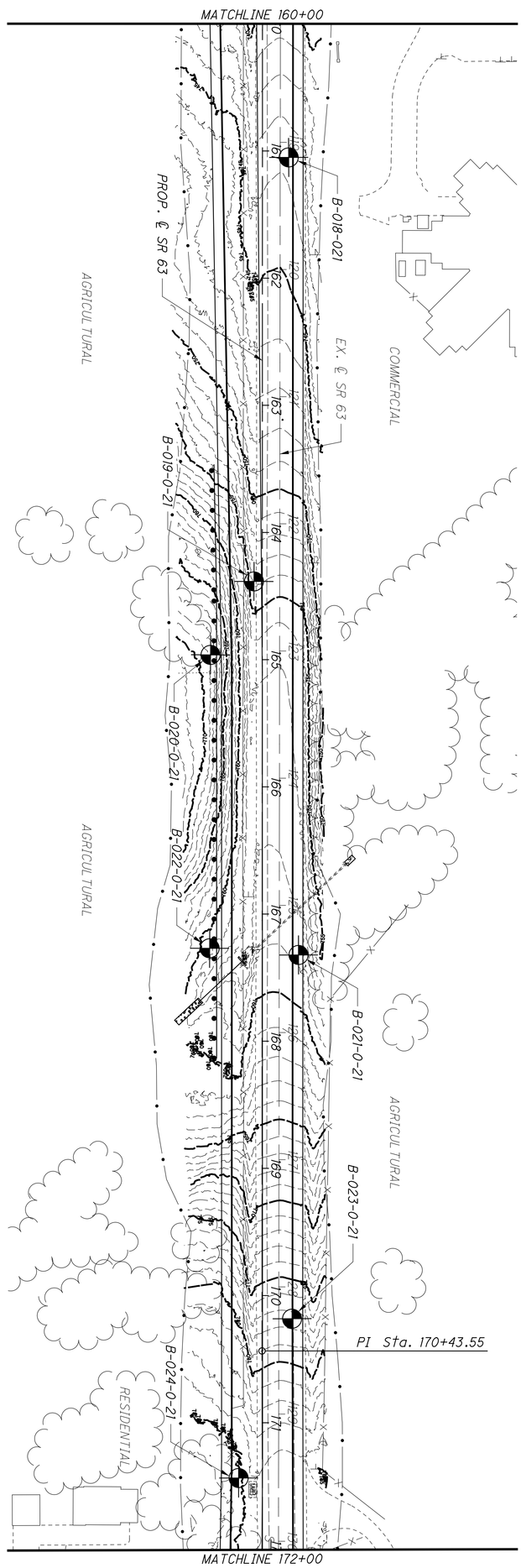
HORIZONTAL SCALE IN FEET
0 25 50 100

DRAWN RAM
CHECKED GAB

SOIL PROFILE - S.R. 63
STA. 148+00 TO STA. 160+00

WAR-SR63-0.83

W:\Projects\Projects F-J\J0810002\112121\400-Engineering\Geotechnical\05_Sheets\112121_GP06.dgn 112121_GP06 2/9/2023 1:24:38 PM rmurray



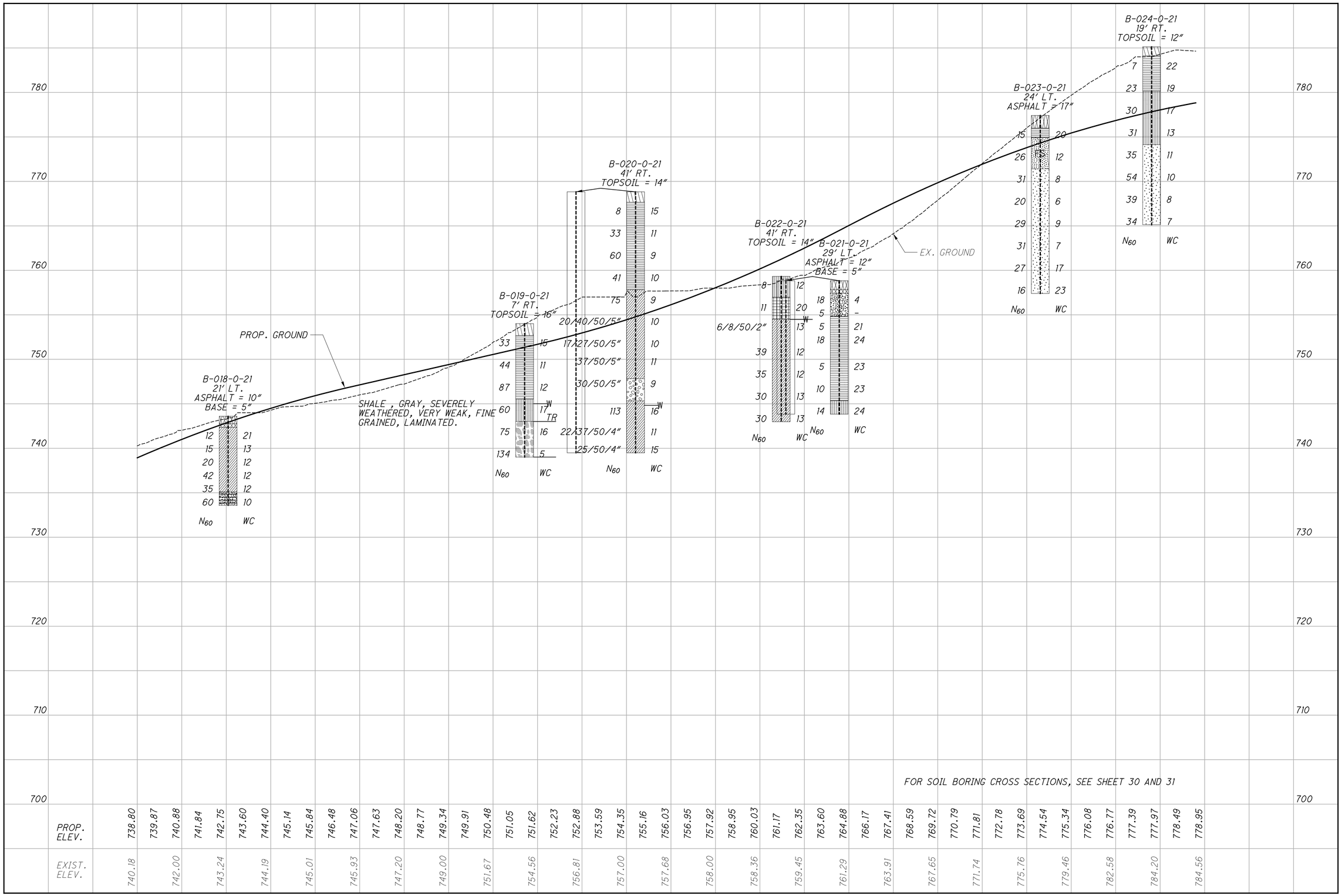
SEE SHEET 14 FOR PROFILE

SOIL PROFILE - S.R. 63
STA. 160+00 TO STA. 172+00

DRAWN RAM
CHECKED GAB

0 50
25 100
HORIZONTAL SCALE IN FEET

W:\Projects\Projects F-J\J008100021\I221\I400-Engineering\Geotechnical\05 Sheets\I221_GP06a.dgn I221_GP06 2/9/2023 1:24:41 PM rmurray

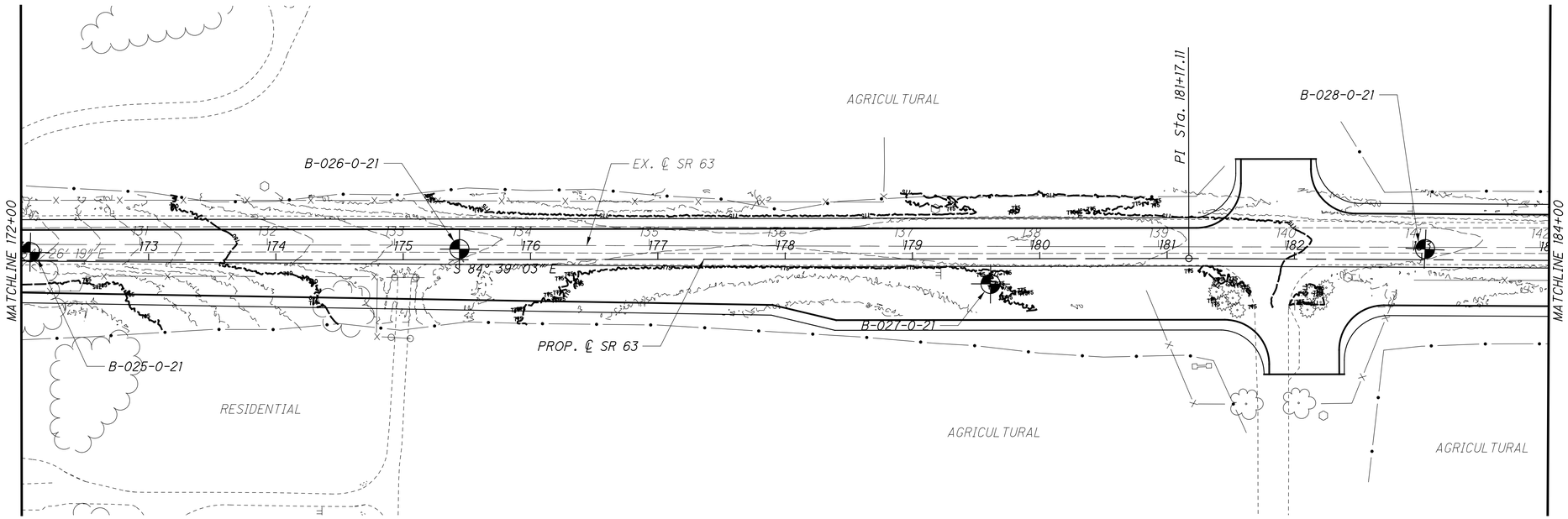


HORIZONTAL SCALE IN FEET
0 25 50 100

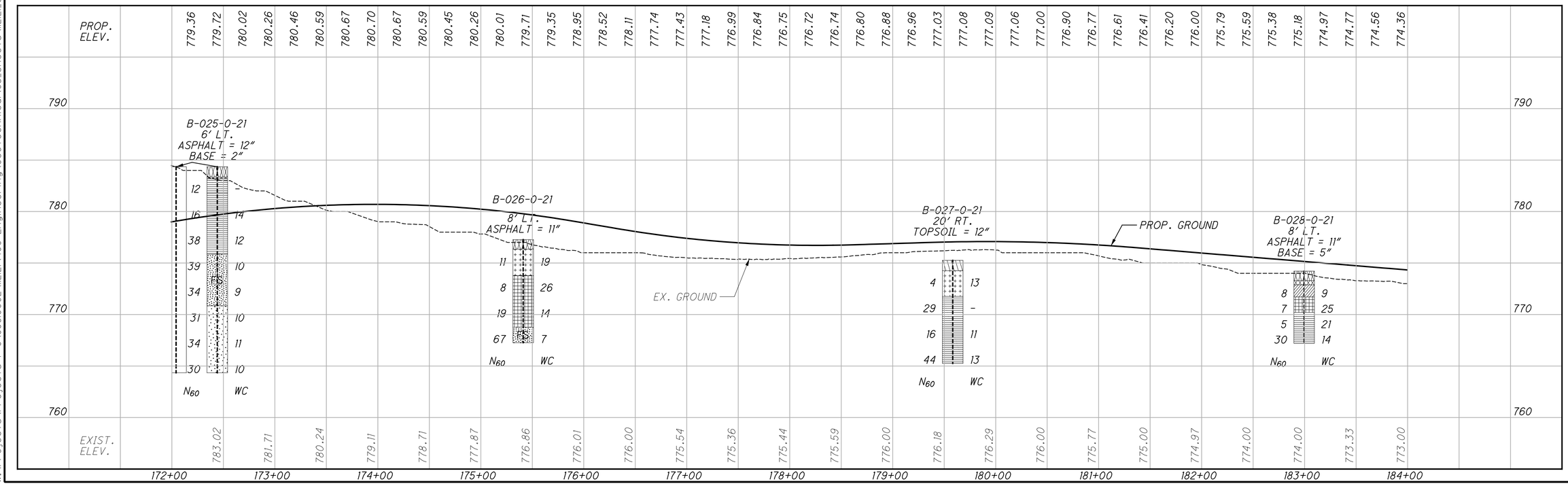
DRAWN RAM
CHECKED GAB

SOIL PROFILE - S.R. 63
STA. 160+00 TO STA. 172+00

WAR-SR63-0.83



FOR SOIL BORING CROSS SECTIONS, SEE SHEET 31



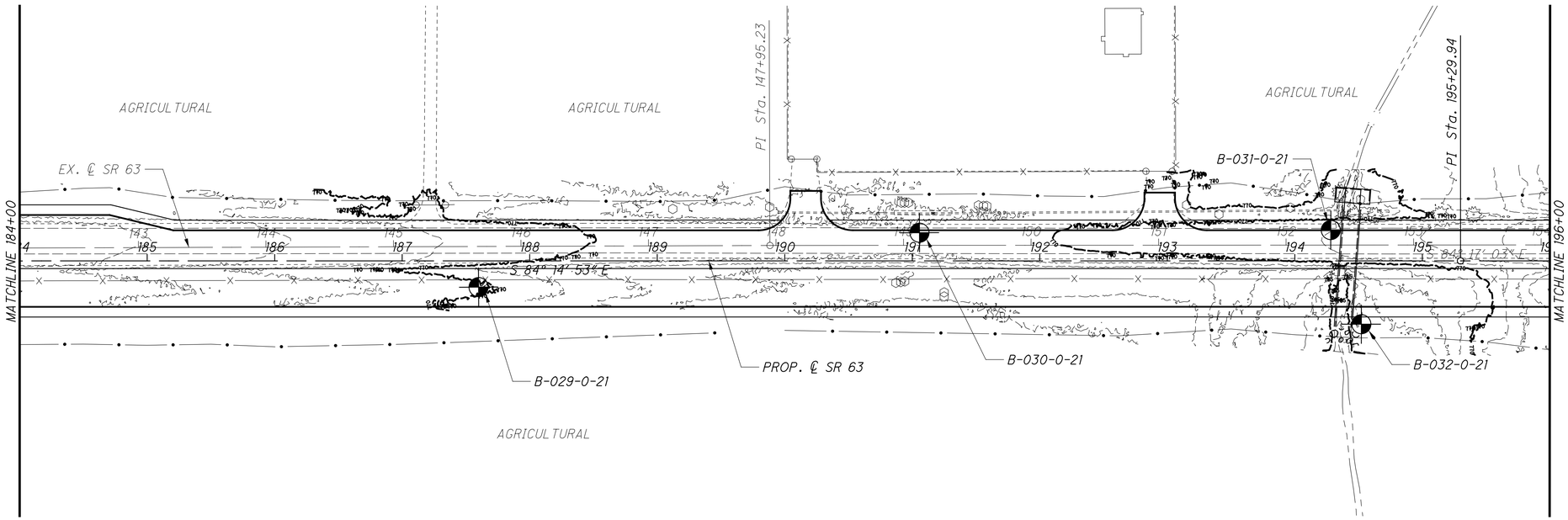
SOIL PROFILE - S.R. 63
STA. 172+00 TO STA. 184+00

WAR-SR63-0.83

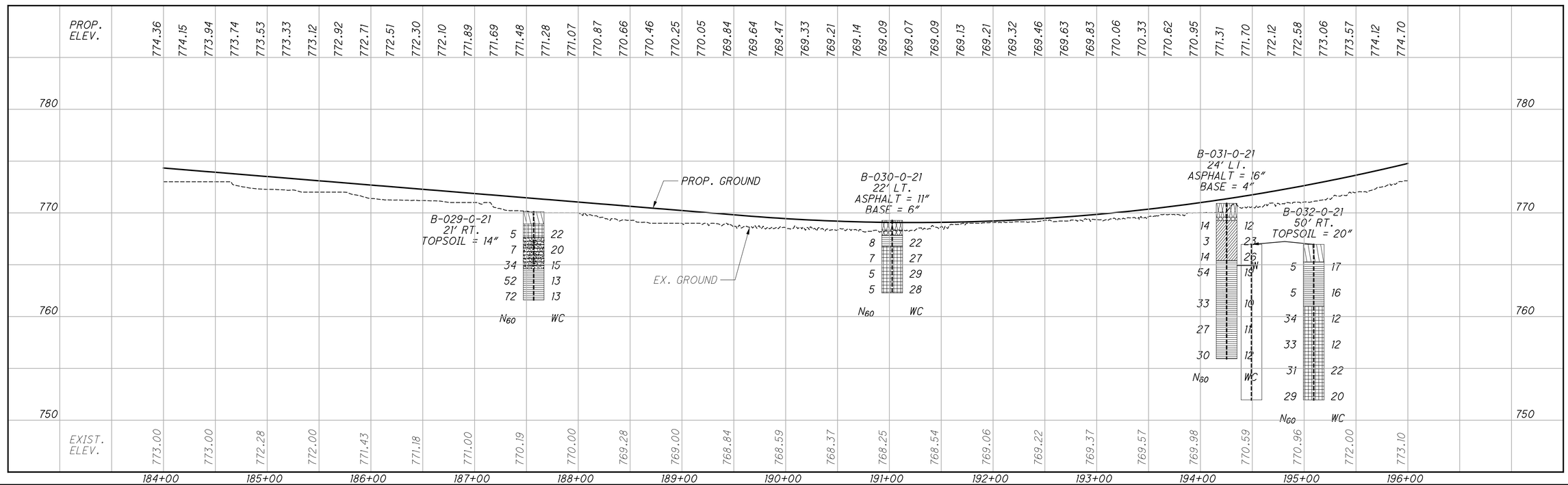
15 / 36

415 / 436

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FOR SOIL BORING CROSS SECTIONS, SEE SHEET 32



HORIZONTAL SCALE IN FEET
0 25 50 100

DRAWN RAM
CHECKED GAB

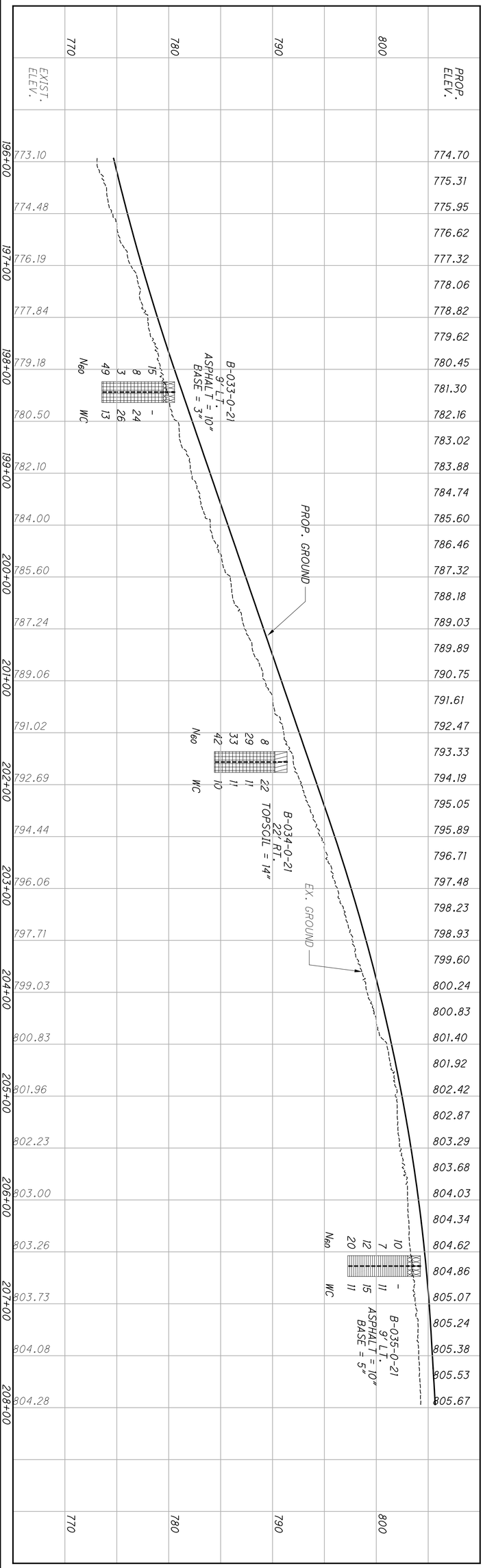
SOIL PROFILE - S.R. 63
STA. 184+00 TO STA. 196+00

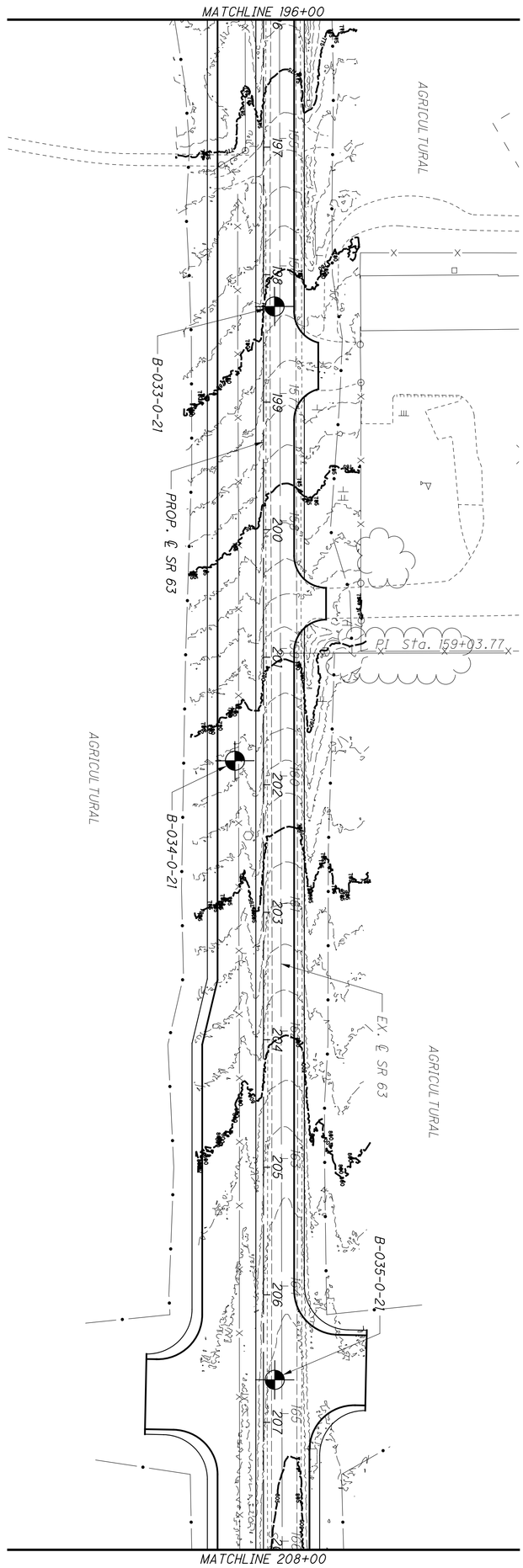
WAR-SR63-0.83

16 / 36

416
436

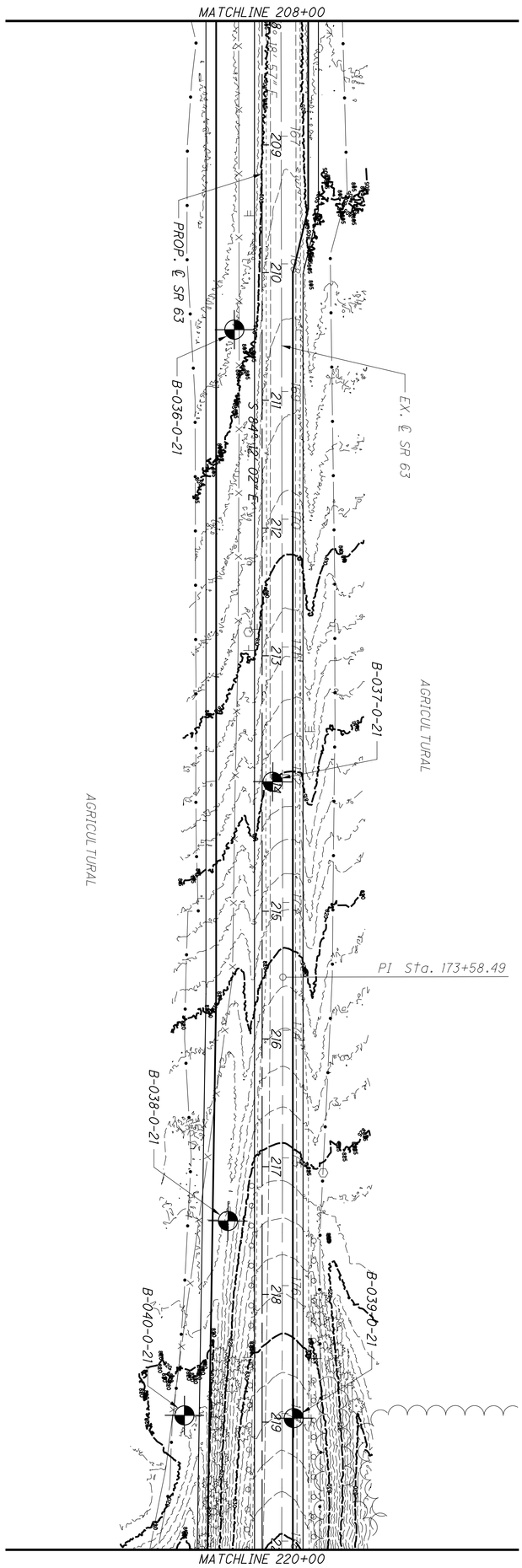
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417 / 436	17 / 36	WAR-SR63-0.83	SOIL PROFILE - S.R. 63 STA. 196+00 TO STA. 208+00	DRAWN RAM CHECKED GAB	0 50 25 100 HORIZONTAL SCALE IN FEET

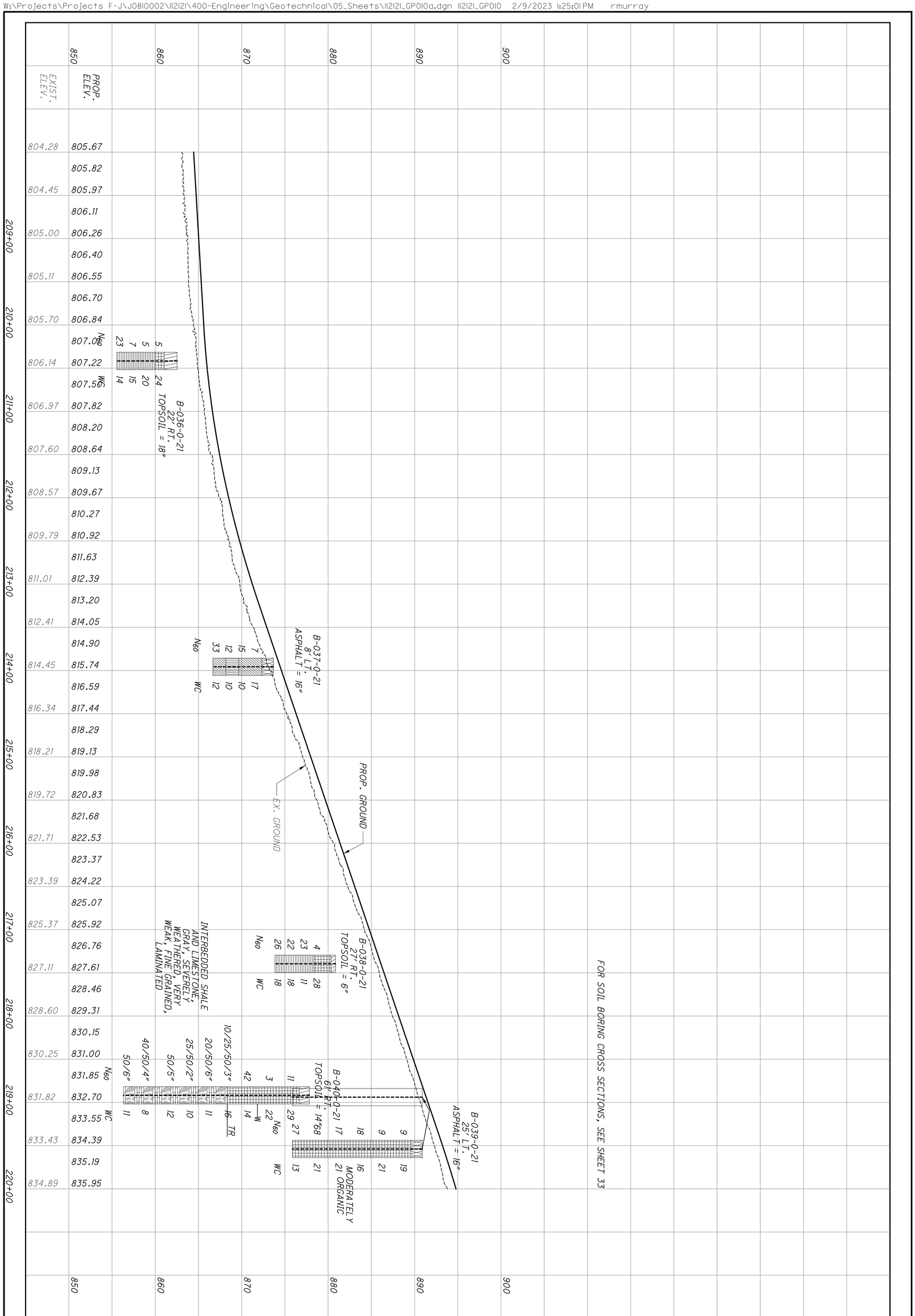
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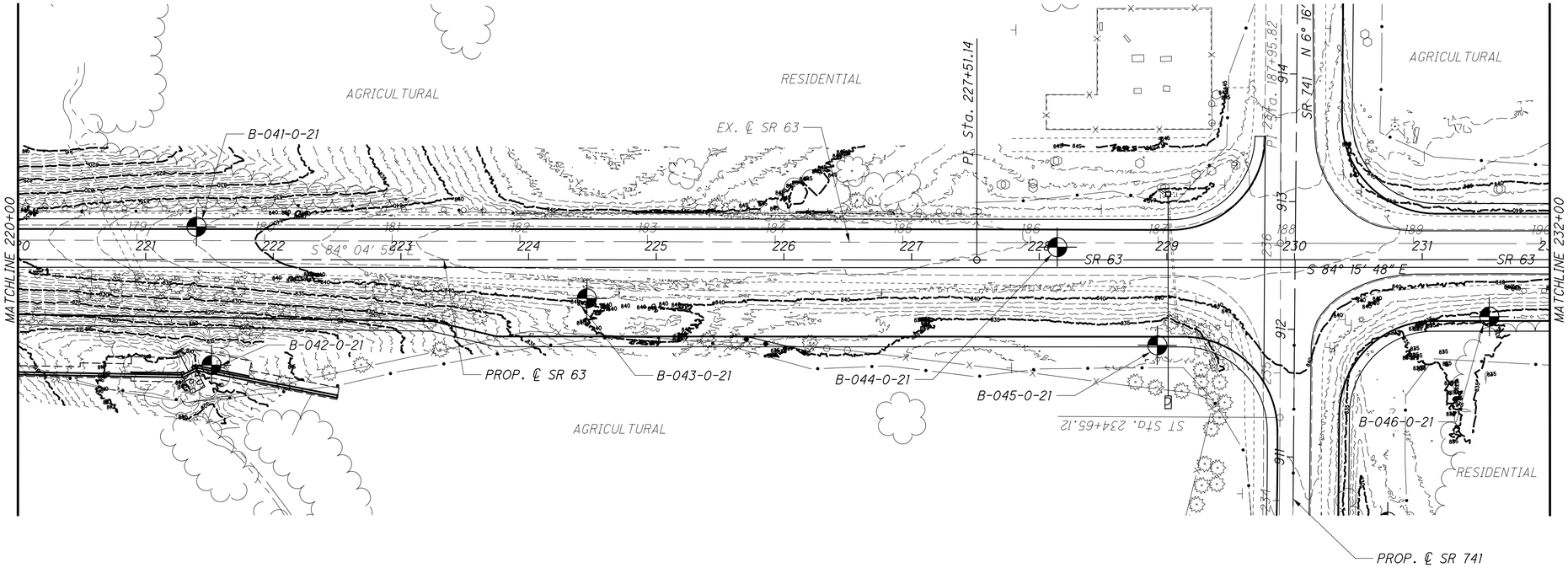
SEE SHEET 19 FOR PROFILE

418 / 436	18 / 36	WAR-SR63-0.83	SOIL PROFILE - S.R. 63 STA. 208+00 TO STA. 220+00	DRAWN RAM CHECKED GAB	0 50 25 100 HORIZONTAL SCALE IN FEET	N

W:\Projects\Projects F-J\J08I0002\II2I2I\400-Engineering\Geotechnical\05_Sheets\II2I2I_GP0I0a.dgn II2I2I_GP0I0 2/9/2023 1:25:01 PM rmurray



419 / 436	19 / 36	WAR-SR63-0.83	SOIL PROFILE - S.R. 63 STA. 208+00 TO STA. 220+00	DRAWN RAM CHECKED GAB	0 50 25 100 HORIZONTAL SCALE IN FEET



SEE SHEETS 20A AND 21 FOR PROFILE

HORIZONTAL SCALE IN FEET
0 25 50 100

DRAWN RAM
CHECKED GAB

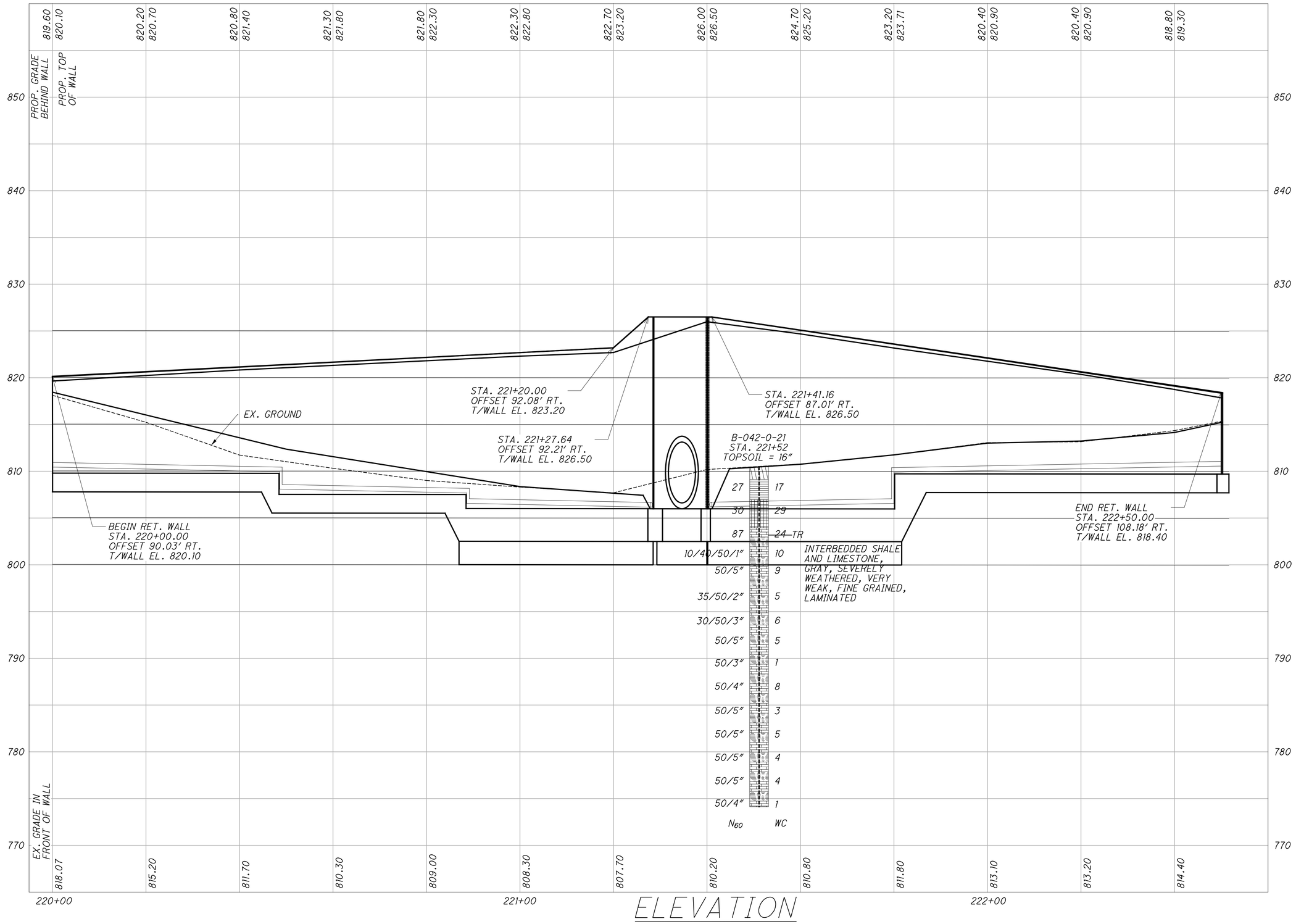
SOIL PROFILE - S.R. 63
STA. 220+00 TO STA. 236+00

WAR-SR63-0.83

20 / 36

420
436

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ELEVATION

HORIZONTAL SCALE IN FEET
0 5 10 20

DRAWN RAM
CHECKED GAB

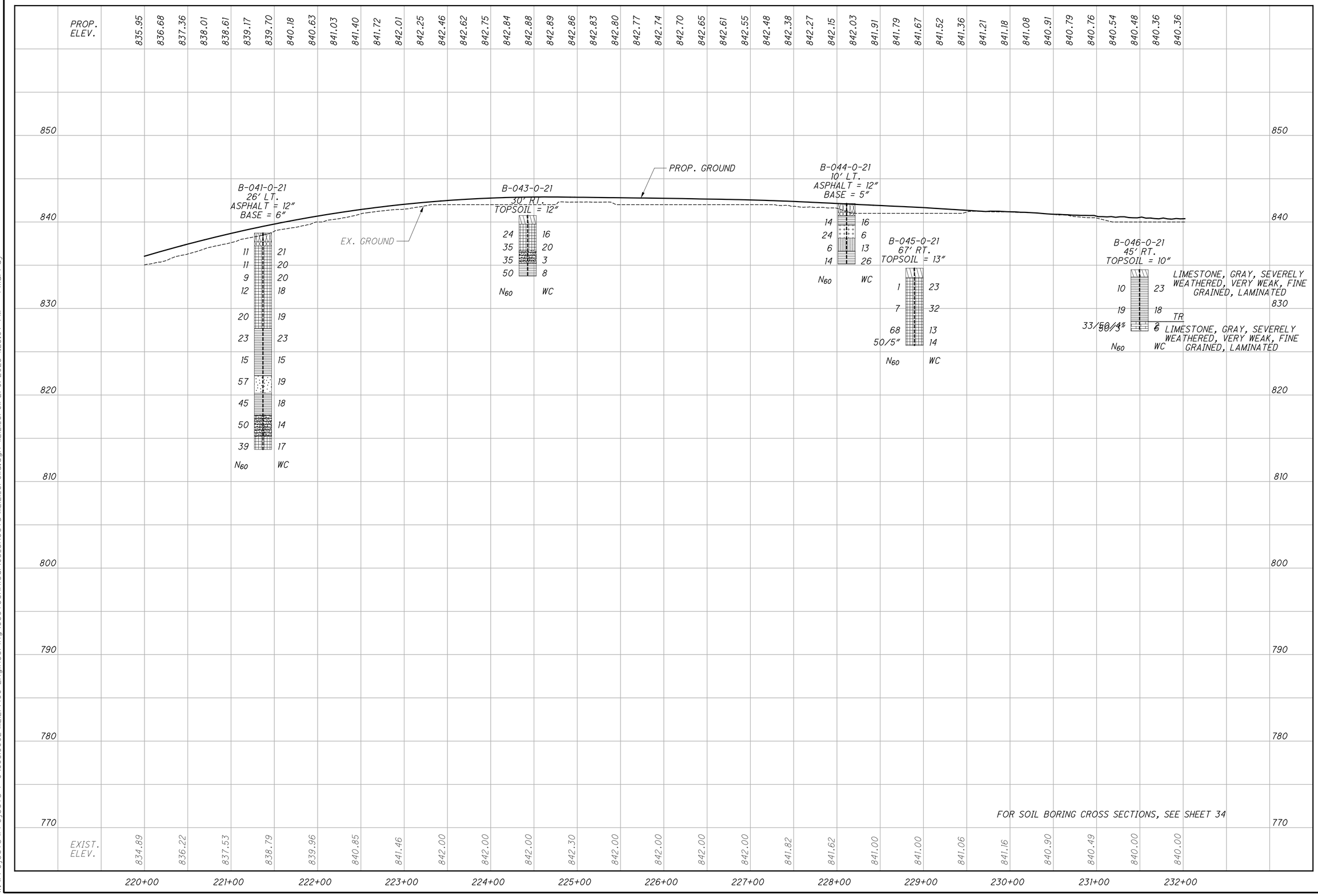
SOIL PROFILE - S.R. 63
STA. 220+00 TO STA. 232+00

WAR-SR63-0.83

20A / 46

42.0A
436

W:\Projects\Projects F-J\J0810002\112121\400-Engineering\Geotechnical\05_Sheets\112121_GP01b.dgn 7/19/2023 12:36:15 PM jwatson



HORIZONTAL SCALE IN FEET
0 25 50 100

DRAWN RAM
CHECKED GAB

SOIL PROFILE - S.R. 63
STA. 220+00 TO STA. 232+00

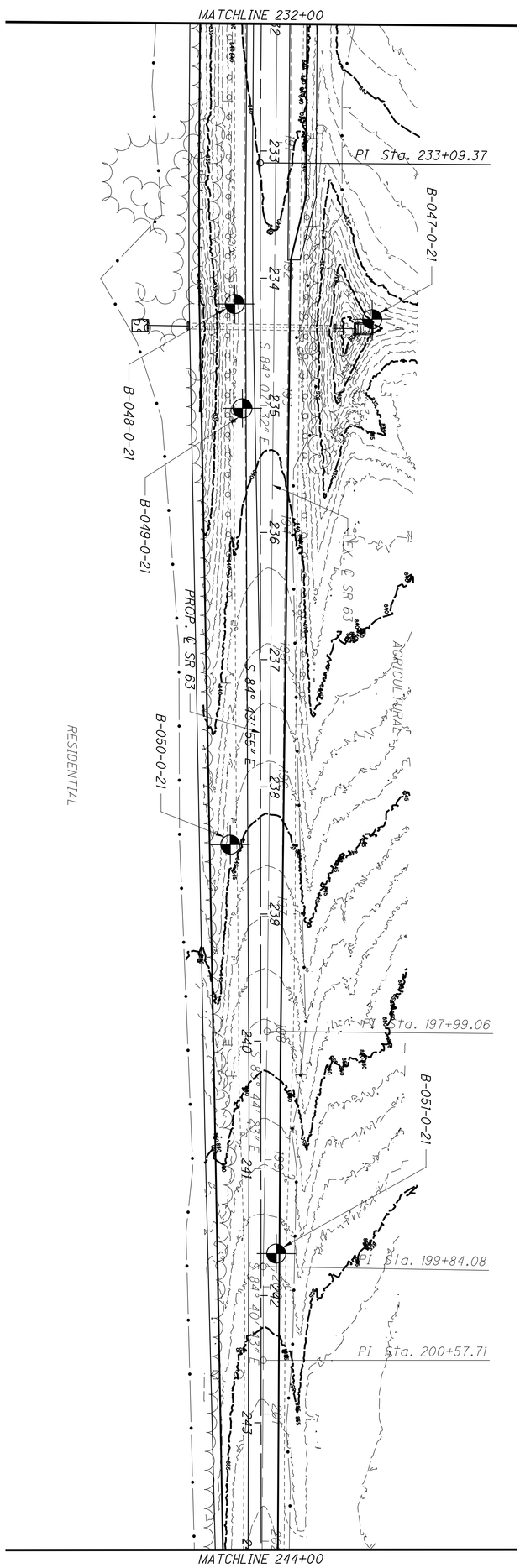
WAR-SR63-0.83

21 / 36

421 / 436

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W:\Projects\Projects F-J\J08I0002\II2I2I\400-Engineering\Geotechnical\05_Sheets\II2I2I_GP0I2.dgn II2I2I_GP0I2 2/9/2023 1:25:10 PM rmurray



SEE SHEET 23 FOR PROFILE

422 / 436	22 / 36	WAR-SR63-0.83	SOIL PROFILE - S.R. 63 STA. 232+00 TO STA. 244+00	DRAWN RAM CHECKED GAB	0 50 25 100 HORIZONTAL SCALE IN FEET

W:\Projects\Projects F-J\J0810002\Il21I\400-Engineering\Geotechnical\05 Sheets\Il21LGP012a.dgn Il21LGP012 2/9/2023 1:25:12 PM rmurray

B-051-0-21
12' LT.
ASPHALT = 8"
BASE = 10"

14	3
10	22
11	21
27	20
N_{60}	WC

EX. GROUND

B-050-0-21
24' RT.
GRAVEL = 4"

24	6
8	20
30	16
37	27
N_{60}	WC

B-049-0-21
14' RT.
ASPHALT = 5"
BASE = 6"

8	5
8	16
7	14
39	20
N_{60}	WC

B-048-0-21
20' RT.
ASPHALT = 2"

8	17
8	20
11	17
6	17
11	30
35	11
120	12 TR
20/30/50/4"	7
20/50/5"	7
50/6"	4
50/1"	4
50/1"	3
50/3"	3
50/3"	5
50/3"	5
50/3"	3
N_{60}	WC

LIMESTONE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED, LAMINATED, FOSSILIFEROUS

B-047-0-21
88' LT.
TOPSOIL = 8"

18/50/2"	26
72	5 TR
10/50/6"	7
10/40/50/3"	9
20/40/50/3"	7
10/50/5"	5
30/50/3"	7
50/6"	2
50/2"	5
35/47/50/5"	4
N_{60}	WC

LIMESTONE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED, LAMINATED, FOSSILIFEROUS

INTERBEDDED SHALE AND LIMESTONE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED, LAMINATED

	860	850	840	830	820	810	800
EXIST. ELEV.	840.00	840.00	840.00	839.88	839.00	839.00	839.00
	232+00	233+00	234+00		235+00		

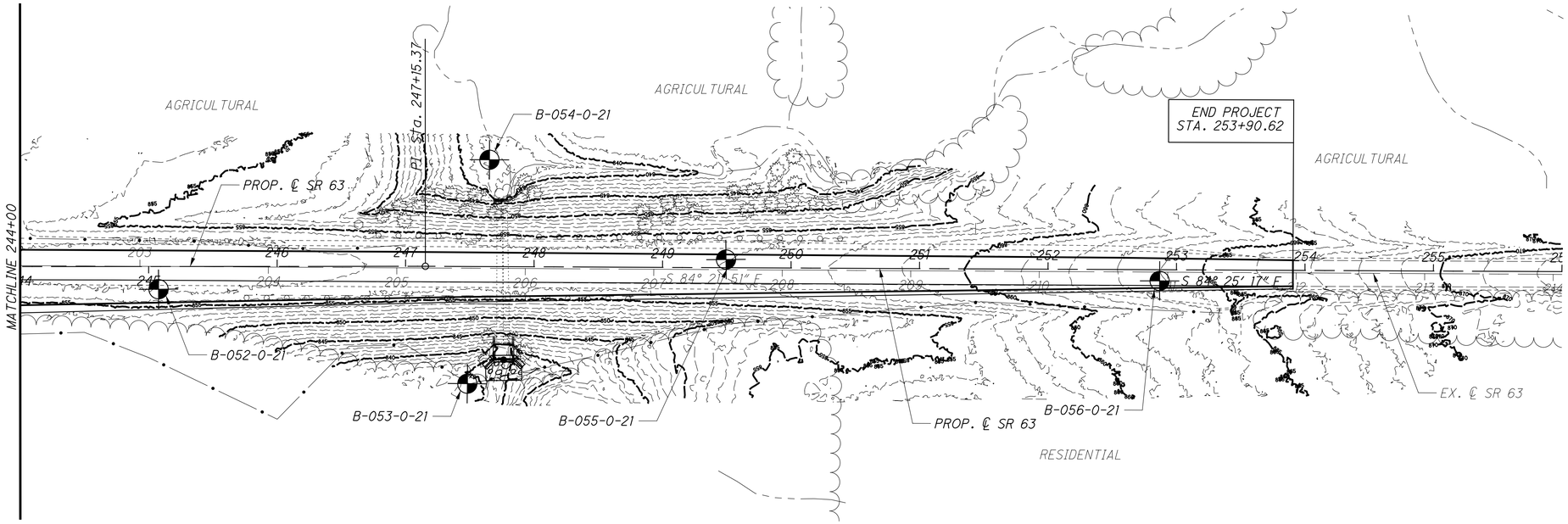
	860	850	840	830	820	810	800
EXIST. ELEV.	840.09	840.59	841.30	842.20	843.28	844.44	845.63	846.90	848.00	849.40	850.66	852.00	853.00	854.17	855.16	856.00	856.33	857.00
	236+00	237+00	238+00	239+00	240+00	241+00	242+00	243+00	244+00									

HORIZONTAL SCALE IN FEET
0 25 50 100

DRAWN RAM
CHECKED GAB

SOIL PROFILE - S.R. 63
STA. 232+00 TO STA. 244+00

WAR-SR63-0.83



SEE SHEET 25 FOR PROFILE

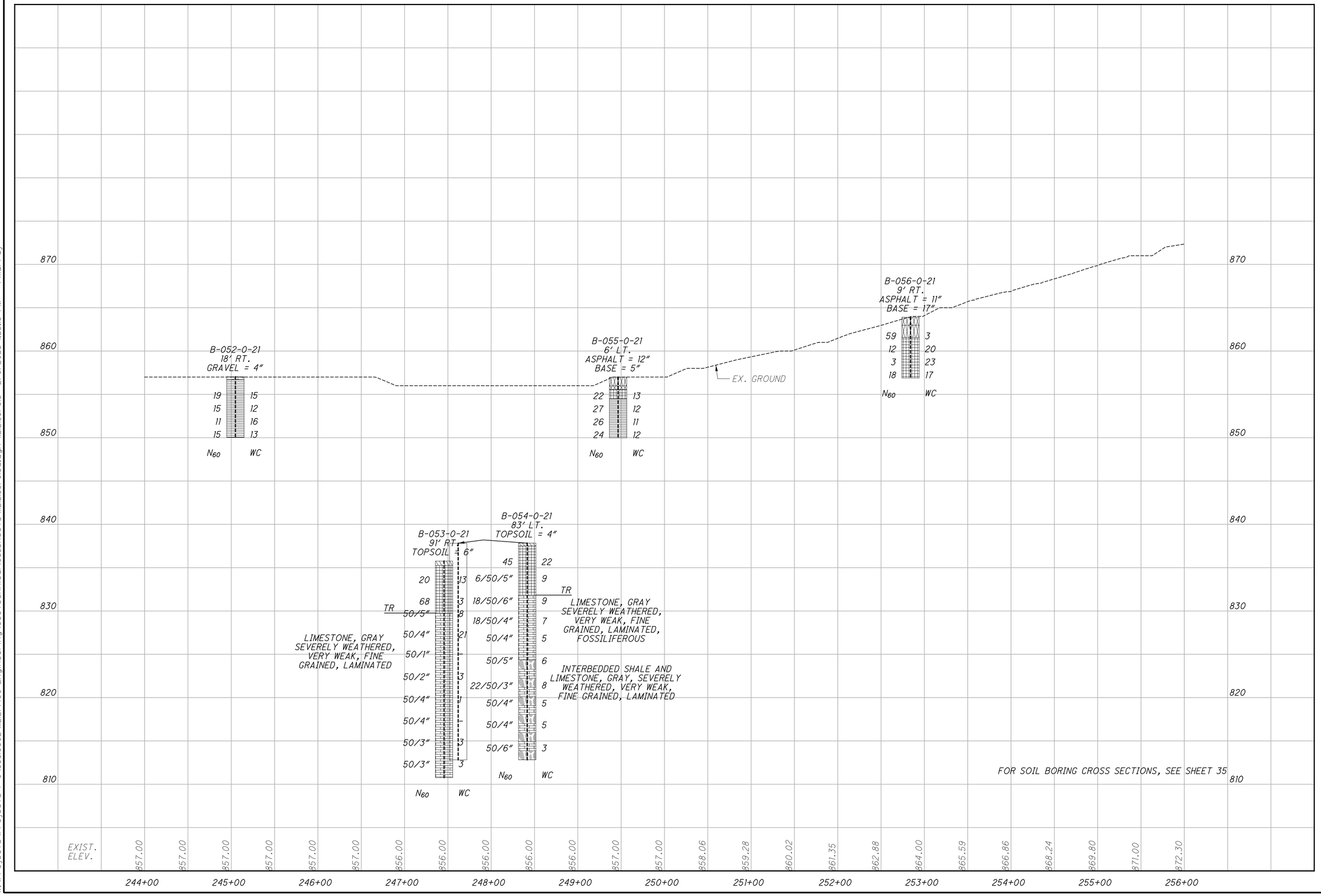
HORIZONTAL SCALE IN FEET
0 25 50 100

DRAWN RAM
CHECKED GAB

SOIL PROFILE - S.R. 63
STA. 244+00 TO STA. 256+00

WAR-SR63-0.83

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FOR SOIL BORING CROSS SECTIONS, SEE SHEET 35

0 25 50 100
HORIZONTAL SCALE IN FEET

DRAWN RAM
CHECKED GAB

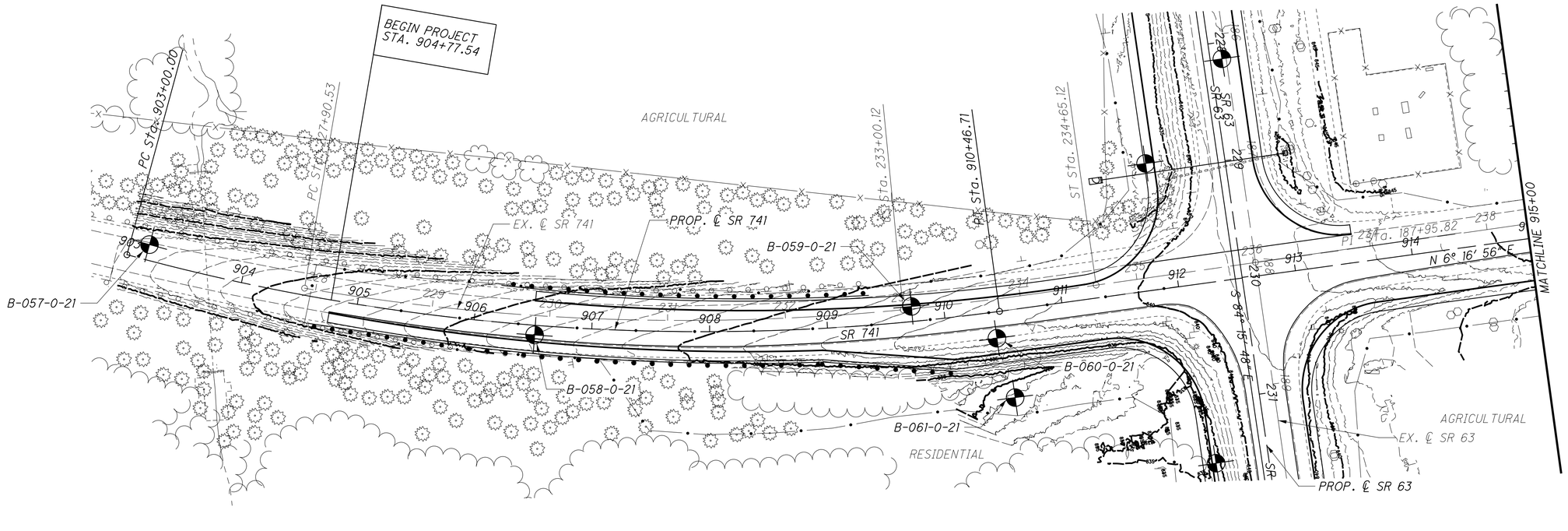
SOIL PROFILE - S.R. 63
STA. 244+00 TO STA. 256+00

WAR-SR63-0.83

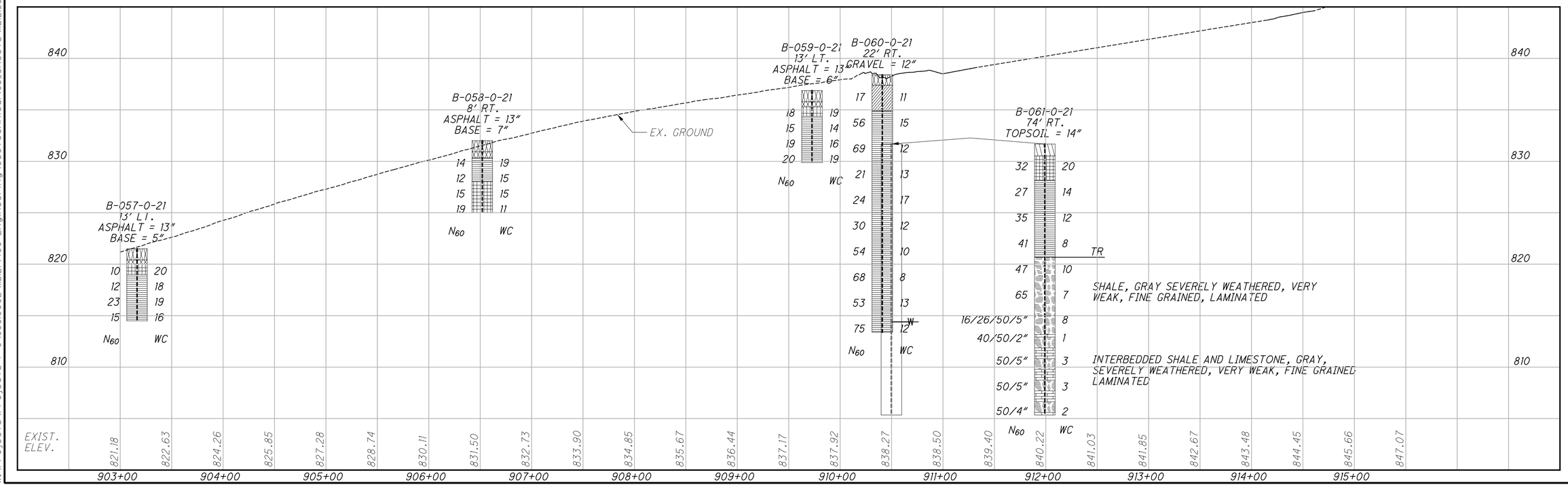
25 / 36

425 / 436

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FOR SOIL BORING CROSS SECTIONS, SEE SHEET 36



HORIZONTAL SCALE IN FEET
0 25 50 100

DRAWN RAM
CHECKED GAB

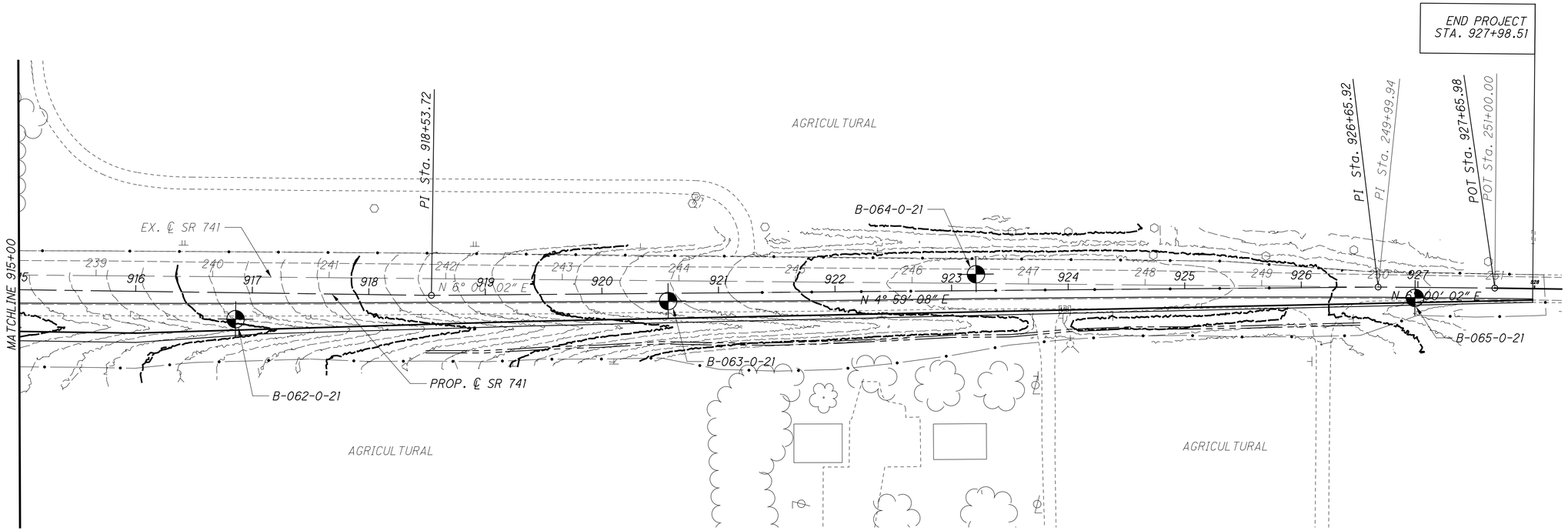
SOIL PROFILE - S.R. 741
STA. 903+00 TO STA. 915+00

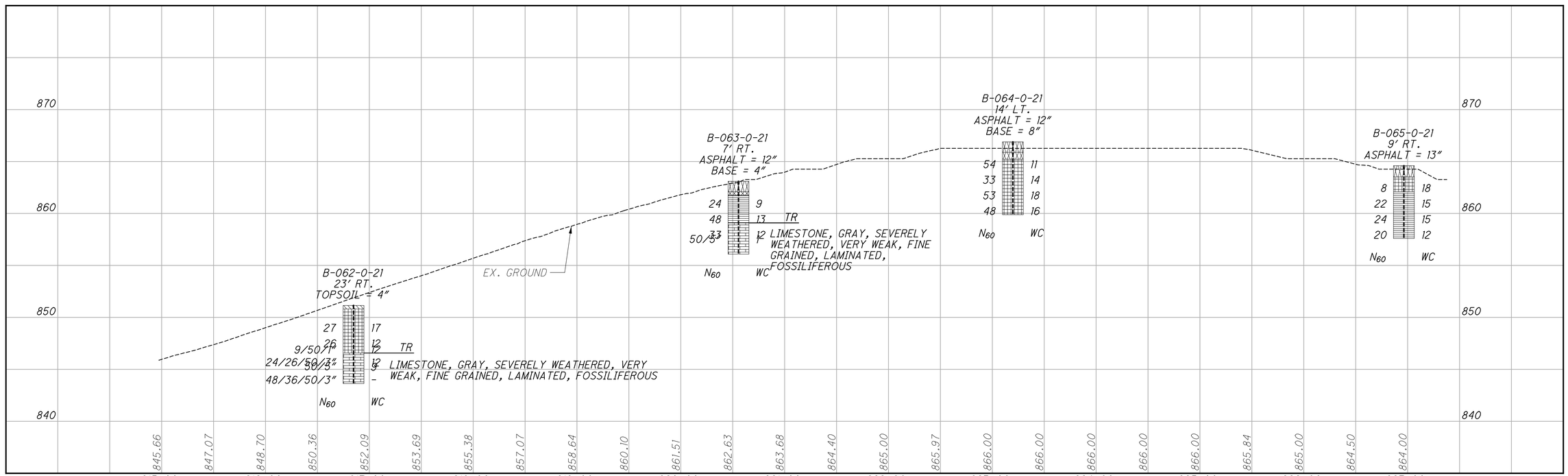
WAR-SR63-0.83

26 / 36

426 / 436

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N

HORIZONTAL SCALE IN FEET
0 25 50 100

DRAWN RAM
CHECKED GAB

SOIL PROFILE - S.R. 741
STA. 915+00 TO STA. 927+00

WAR-SR63-0.83

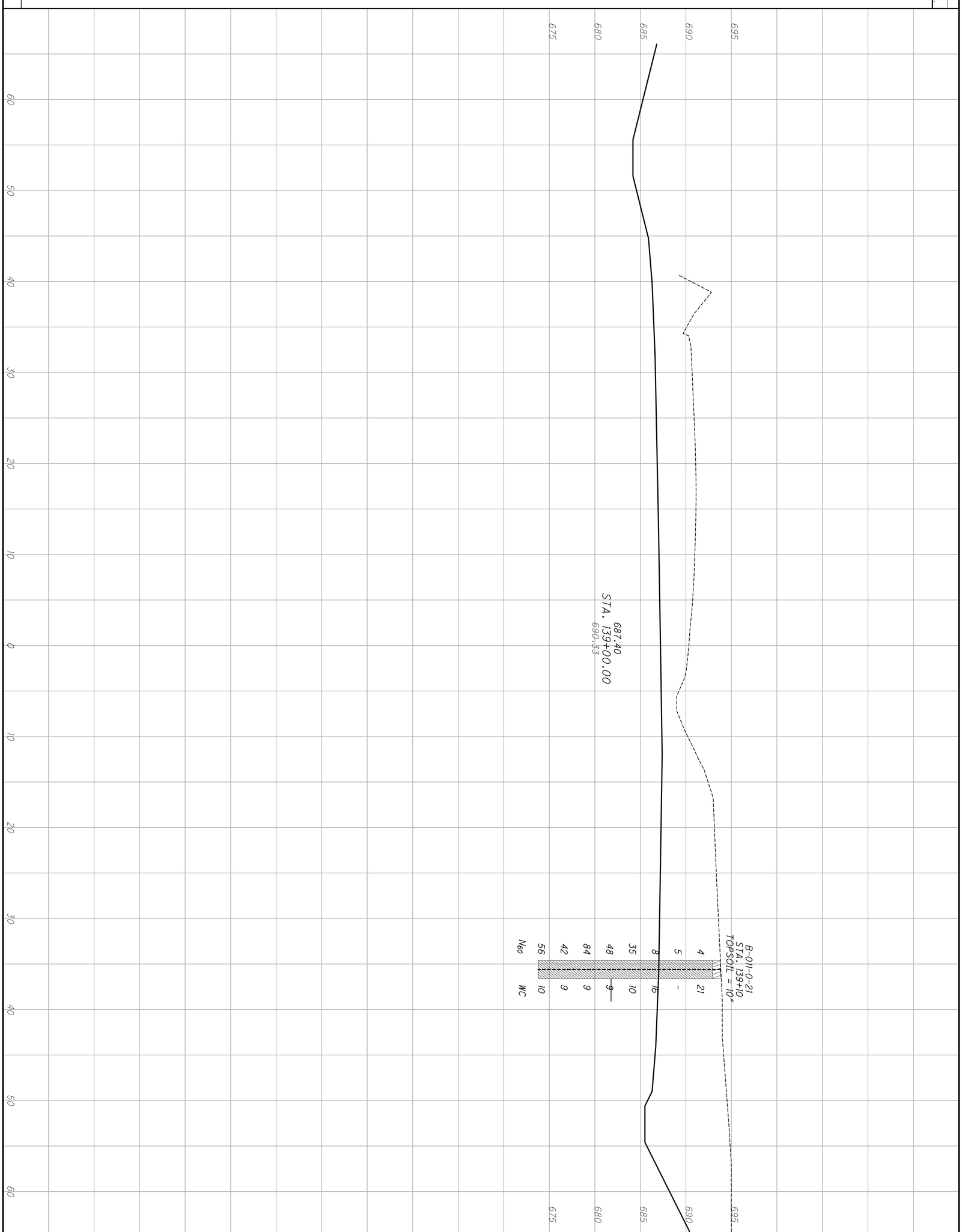
27 / 36

427 / 436

W:\Projects\Projects F-J\J080002\I212\I400-Engineering\Geotechnical\05_Sheets\I212_GP21.dgn I212_GP04 2/9/2023 1:25:26 PM rmurray

W:\Projects\Projects F-J\J08I0002\II2I2I\400-Engineering\Geotechnical\05_Sheets\II2I2I_XS015.dgn II2I2I_GP014 2/9/2023 1:25:30 PM rmurray

SEEDING
END WIDTH | SQ. YDS.



END AREA | CUT | FILL
VOLUME | CUT | FILL

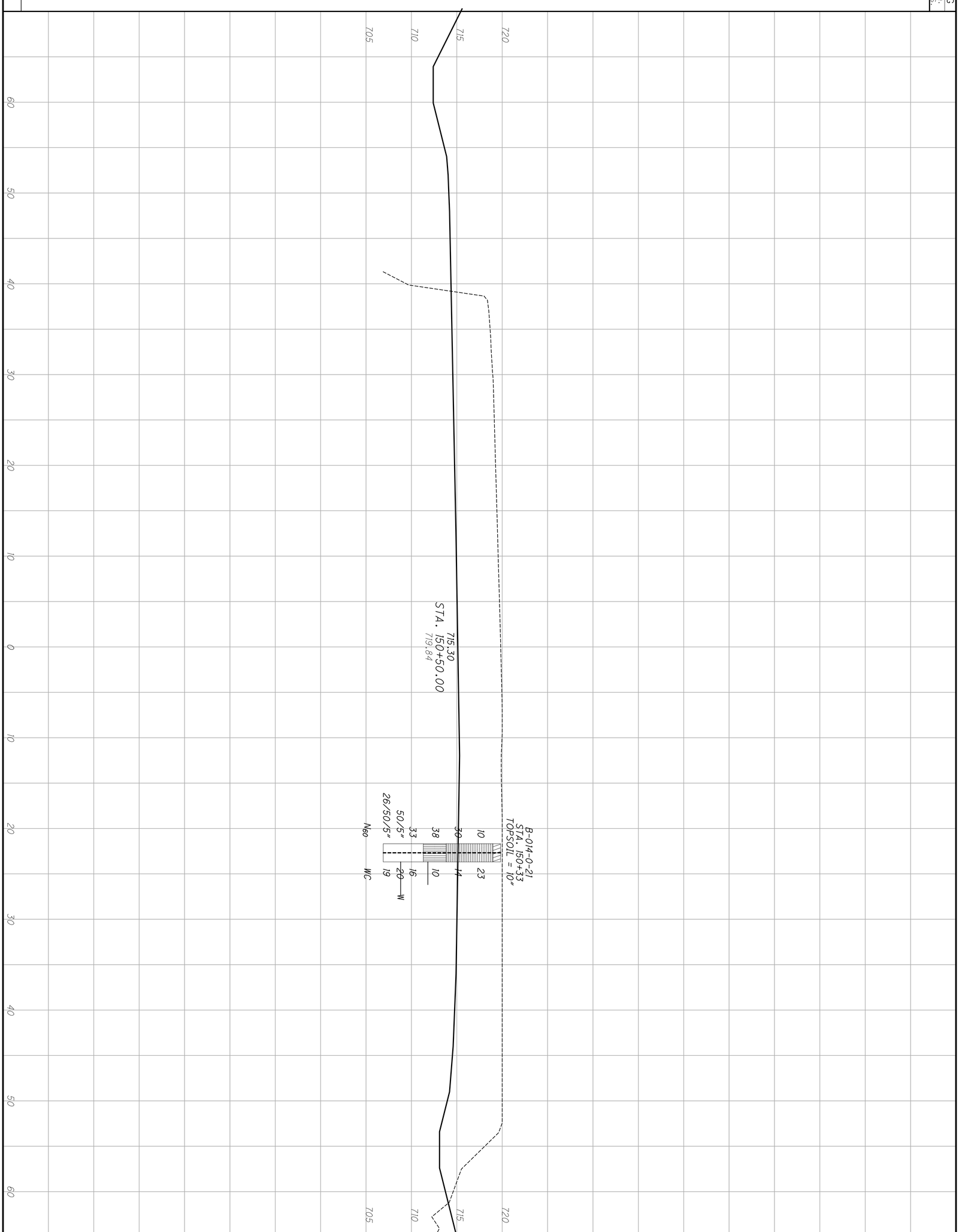
428/436 | 28/36 | WAR-SR63-0.83

SOIL PROFILE - S.R. 63 - CROSS SECTIONS
STA. 139+00

CALCULATED RAM
CHECKED GAB

W:\Projects\Projects F-J\J08I0002\II2I2I\400-Engineering\Geotechnical\05_Sheets\II2I2I_XS0I5.dgn II2I2I_GP0I4 2/9/2023 I:25:3I PM rmurray

SEEDING
END WIDTH | SQ. YDS.



END AREA CUT | FILL
VOLUME CUT | FILL

429/436	29/36	WAR-SR63-0.83	SOIL PROFILE - S.R. 63 - CROSS SECTIONS STA. 150+50

CALCULATED RAM
CHECKED GAB

SEEDING	
END WIDTH	SQ. YDS.

B-021-0-21
STA. 167+32
ASPHALT = 12"
BASE = 5"

N_{60}	WC
18	4
5	–
5	21
18	24
5	23
10	23
14	24

762.35
STA. 167+50.00
759.45

B-022-0-21
STA. 167+27
TOPSOIL = 14"

N_{60}	WC
8	12
11	20
6/8/50/2"	13
39	12
35	12
30	13
30	13

B-020-0-21
STA. 164+96
TOPSOIL = 14"

N_{60}	WC
8	15
33	11
60	9
41	10
75	9
20/40/50/5"	10
17/27/50/5"	10
37/50/5"	11
30/50/5"	9
113	16
22/37/50/4"	11
25/50/4"	15

752.89
STA. 165+00.00
756.84

B-019-0-21
STA. 164+38
TOPSOIL = 16"

N_{60}	WC
33	15
44	11
87	12
60	17
75	16
134	5

751.64
STA. 164+50.00
754.56

SHALE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED, LAMINATED

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED RAM
CHECKED GAB

SOIL PROFILE - S.R. 63 - CROSS SECTIONS STA. 164+50 TO STA. 167+50

WAR-SR63-0.83

30 / 36

430 / 436

W:\Projects\Projects F-J\J080002\II2I2\400-Engineering\Geotechnical\05_Sheets\II2I2L_XSOI5.dgn II2I2L_GPOI4 2/9/2023 1:25:31 PM rmurray

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED RAM
CHECKED GAB

B-025-0-21
STA. 172+07
ASPHALT = 12"
BASE = 2"

N_{60}	WC
12	-
16	14
38	12
39	10
34	9
31	10
34	11
30	10

779.00
STA. 172+00.00
784.56

B-024-0-21
STA. 171+43
TOPSOIL = 12"

N_{60}	WC
7	22
23	19
30	17
31	13
35	11
54	10
39	8
34	7

778.00
STA. 171+50.00
784.20

B-023-0-21
STA. 170+18
ASPHALT = 17"

N_{60}	WC
15	20
26	12
31	8
20	6
29	9
31	7
27	17
16	23

773.69
STA. 170+00.00
775.74

785 780 775 770 765 760

60 50 40 30 20 10 0 10 20 30 40 50 60

SOIL PROFILE - S.R. 63 - CROSS SECTIONS STA. 170+00 TO STA. 172+00

WAR-SR63-0.83

31 / 36

431 / 436

W:\Projects\Projects F-J\U0810002\II2I2\400-Engineering\Geotechnical\05_Sheets\II2I2L_XS015.dgn II2I2L_GP014 2/9/2023 1:25:31 PM rmurray

SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL

VOLUME	
CUT	FILL

CALCULATED RAM
CHECKED GAB

B-031-0-21
STA. 194+28
ASPHALT = 16"
BASE = 4"

N_{60}	WC
14	12
3	23
14	26
54	19 W
33	10
27	11
30	12

771.89
STA. 194+50.00
770.59

B-032-0-21
STA. 194+52
TOPSOIL = 20"

N_{60}	WC
5	17
5	16
34	12
33	12
31	22
29	20

770
765
760
755
750

60 50 40 30 20 10 0 10 20 30 40 50 60

SOIL PROFILE - S.R. 63 - CROSS SECTIONS STA. 194+50

WAR-SR63-0.83

32/36

432/436

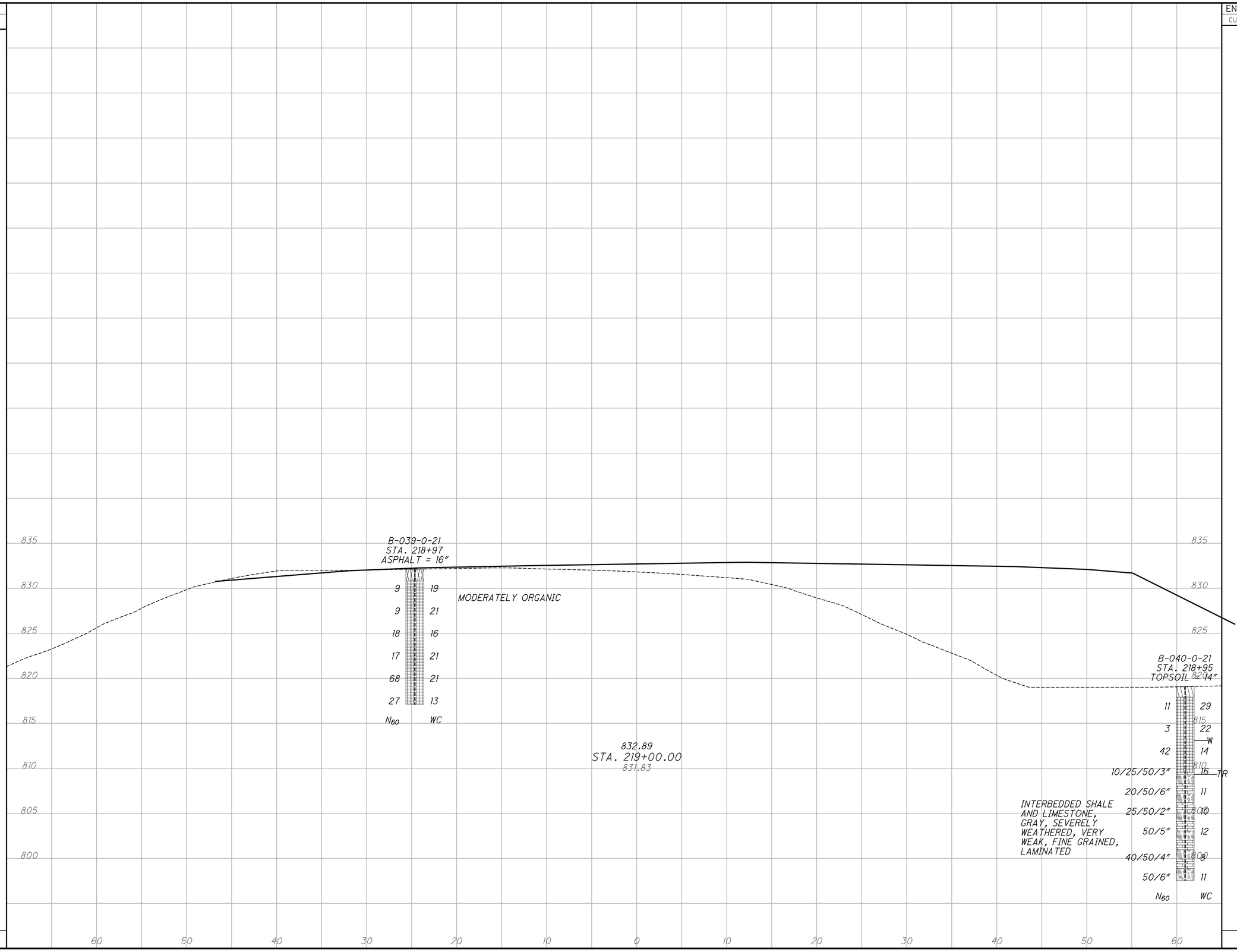
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SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL

VOLUME	
CUT	FILL

CALCULATED RAM
CHECKED GAB



SOIL PROFILE - S.R. 63 - CROSS SECTIONS STA. 219+00

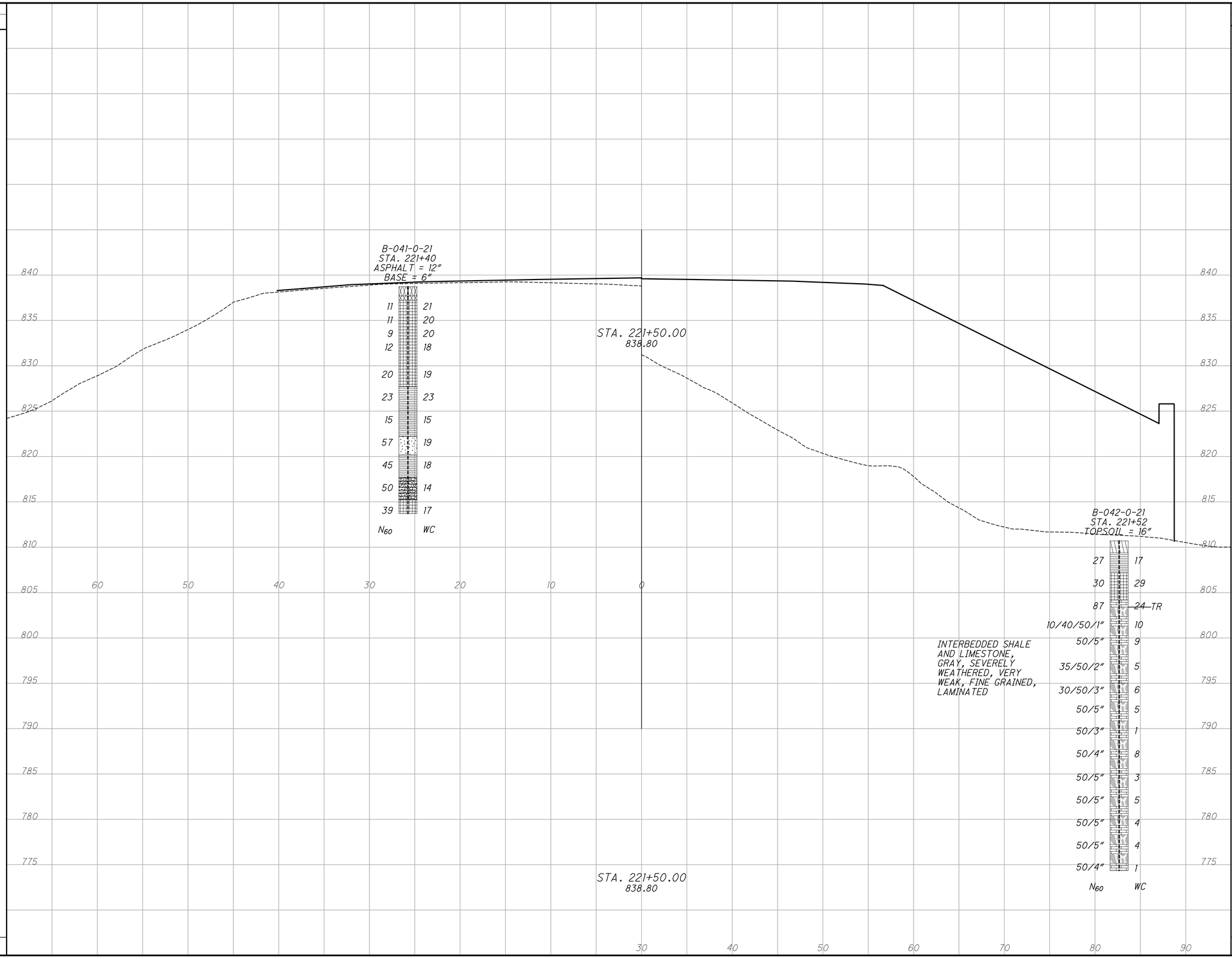
WAR-SR63-0.83

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SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED RAM
CHECKED GAB



SOIL PROFILE - S.R. 63 - CROSS SECTIONS STA. 221+50

WAR-SR63-0.83

34/36

434/436

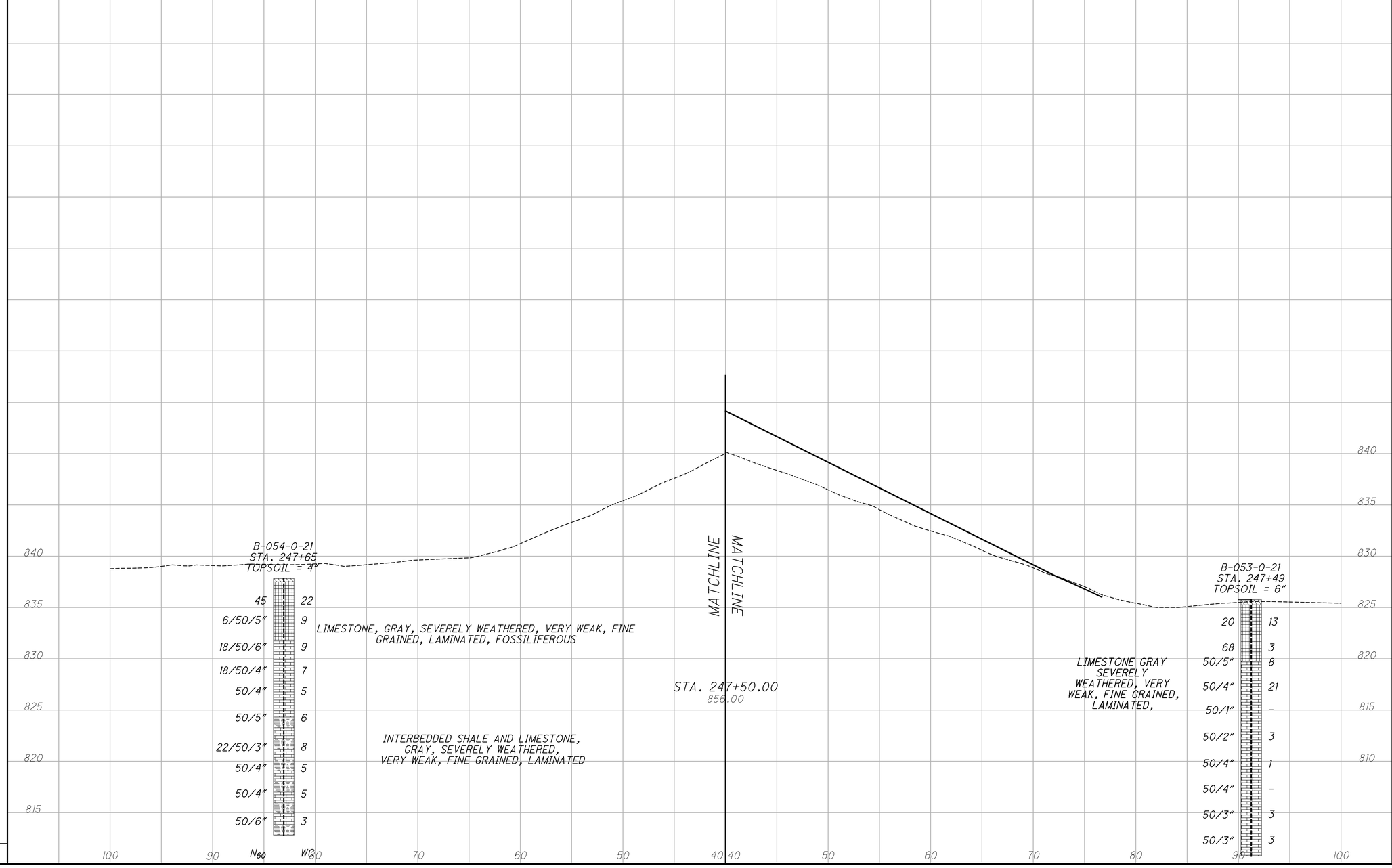
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SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL

VOLUME	
CUT	FILL

CALCULATED RAM
CHECKED GAB



SOIL PROFILE - S.R. 63 - CROSS SECTIONS STA. 247+50

WAR-SR63-0.83

35 / 36

435 / 436

W:\Projects\Projects F-J\J018002\II2I2I\400-Engineering\Geotechnical\05_Sheets\II2I2I_XSOI5.dgn II2I2I_GPOI4 2/9/2023 1:25:32 PM rmurray

SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL

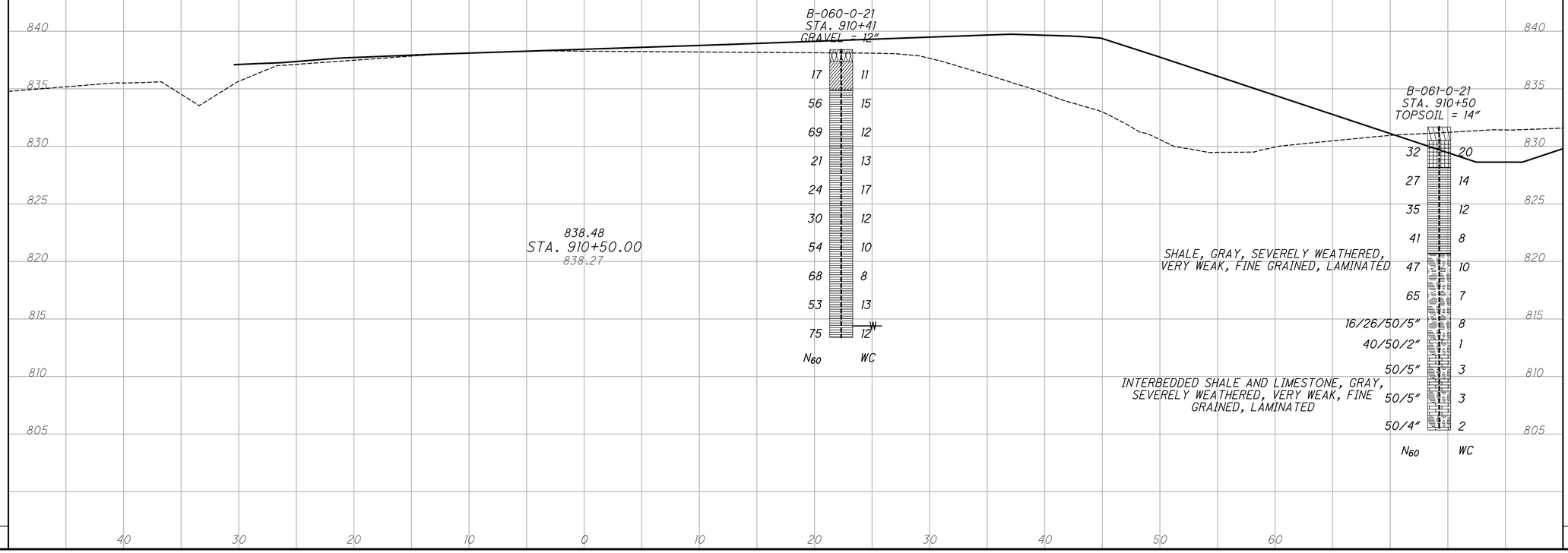
VOLUME	
CUT	FILL

CALCULATED RAM
CHECKED GAB

SOIL PROFILE - S.R. 741 - CROSS SECTIONS

WAR-SR63-0.83

STA. 910+50



36/36

436/436

W:\Projects\Projects F-J\J080002\Ll2l2l\400-Engineering\Geotechnical\05_Sheets\Ll2l2l_XS02_5.dgn Ll2l2l_GP014 2/9/2023 1:25:36 PM rmurray

W:\Projects\Projects F-J\J0810002\112121\400-Engineering\Geotechnical\05_Sheets\112121_ZP001.dgn 8/3/2023 1:49:23 PM

SEE SHEET 36B FOR PROFILE

436A
436

36A
36

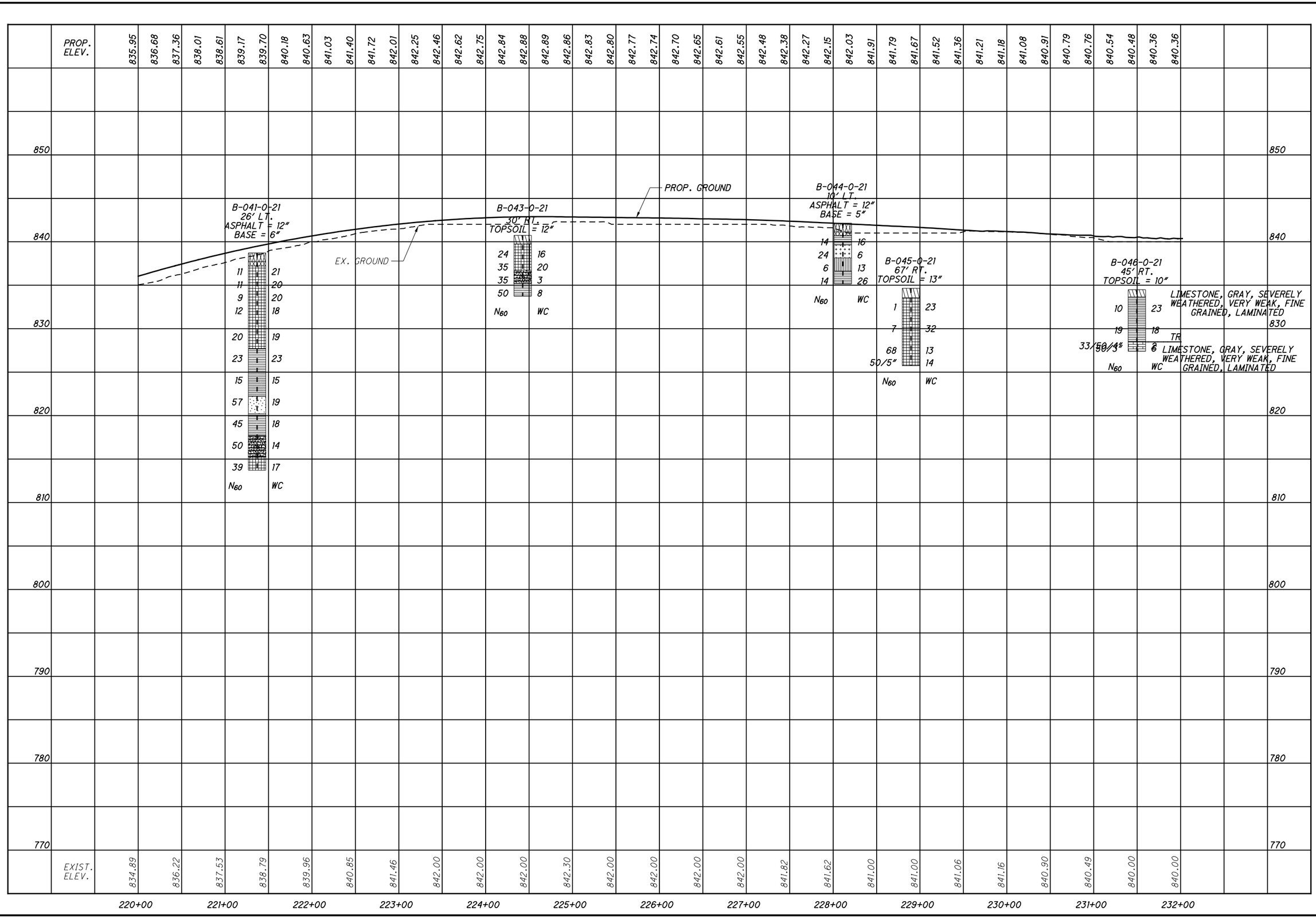
WAR-SR63-0.83

STRUCTURE FOUNDATION EXPLORATION
RETAINING WALL WITH B-042-0-21

DRAWN RAM
CHECKED GAB

0 50
25 100
HORIZONTAL SCALE IN FEET

N



W:\Projects\Projects F-J\DJ08100028\112121\400-Engineering\Geotechnical\05_Sheets\112121_ZP001a.dgn 8/3/2023 1:53:43 PM

HORIZONTAL SCALE IN FEET
0 25 50 100

DRAWN RAM
CHECKED GAB

STRUCTURE FOUNDATION EXPLORATION
RETAINING WALL WITH B-042-021

WAR-SR63-0.83

36B 36

436B
436

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 10/7/21 13:02 - W:\PROJECTS\PROJECTS F-J\J0810002\112121400-ENGINEERING\GEOTECHNICAL\04 - SOIL BORING LOGS\W

PROJECT: WAR-SR 63-0.83	DRILLING FIRM / OPERATOR: MSG / R. SCHIPPERT	DRILL RIG: GEOPROBE 3230DT	STATION / OFFSET: 221+52, 83' RT.	EXPLORATION ID B-042-0-21
TYPE: CULVERT	SAMPLING FIRM / LOGGER: MSG / L. ABUQTAISH	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: SR 63	
PID: 112121 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 10/11/19	ELEVATION: 810.7 (MSL) EOB: 36.33 ft.	PAGE 1 OF 2
START: 6/9/21 END: 6/9/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90*	LAT / LONG: 39.437885, -84.282463	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
16" TOPSOIL	810.7																		
	809.4																		
VERY STIFF, BROWN, **SILTY CLAY**, SOME SAND, LITTLE GRAVEL, MOIST		1	3 9 9	27	78	SS-1	3.50	18	11	12	29	30	39	16	23	17	A-6b (10)	-	
	807.2	2																	
VERY STIFF, BROWN, **CLAY**, SOME SILT, LITTLE SAND, LITTLE GRAVEL, MOIST		3	3 10 10	30	72	SS-2	2.50	18	6	10	31	35	45	20	25	29	A-7-6 (13)	-	
	804.2	4																	
INTERBEDDED SHALE AND LIMESTONE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED, LAMINATED.		TR 5	10 20 38	87	67	SS-3	3.00	-	-	-	-	-	-	-	-	24	Rock (V)	-	
		6																	
		7																	
		8																	
		9	10 40 50/1"	-	100	SS-4	-	-	-	-	-	-	-	-	-	10	Rock (V)	-	
		10																	
		11	50/5"	-	100	SS-5	-	-	-	-	-	-	-	-	-	9	Rock (V)	-	
		12																	
		13																	
		14	35 50/2"	-	100	SS-6	-	-	-	-	-	-	-	-	-	5	Rock (V)	-	
		15																	
		16	30 50/3"	-	100	SS-7	-	-	-	-	-	-	-	-	-	6	Rock (V)	-	
		17																	
		18																	
		19	50/5"	-	60	SS-8	-	-	-	-	-	-	-	-	-	5	Rock (V)	-	
		20																	
		21	50/3"	-	33	SS-9	-	-	-	-	-	-	-	-	-	1	Rock (V)	-	
		22																	
		23																	
		24	50/4"	-	75	SS-10	-	-	-	-	-	-	-	-	-	8	Rock (V)	-	

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 10/7/21 13:02 - W:\PROJECTS\PROJECTS F-J\J0810002\112121400-ENGINEERING\GEOTECHNICAL\04 - SOIL BORING LOGS\W

PID: 112121 SFN: PROJECT: WAR-SR 63-0.83 STATION / OFFSET: 221+52, 83' RT. START: 6/9/21 END: 6/9/21 PG 2 OF 2 B-042-0-21

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
INTERBEDDED SHALE AND LIMESTONE, GRAY, SEVERELY WEATHERED, VERY WEAK, FINE GRAINED, LAMINATED. *(continued)*	785.7																		
		26	50/5"	-	60	SS-11	-	-	-	-	-	-	-	-	-	3	Rock (V)	-	
		27																	
		28																	
		29	50/5"	-	80	SS-12	-	-	-	-	-	-	-	-	-	5	Rock (V)	-	
		30																	
		31	50/5"	-	20	SS-13	-	-	-	-	-	-	-	-	-	4	Rock (V)	-	
		32																	
		33																	
		34	50/5"	-	80	SS-14	-	-	-	-	-	-	-	-	-	4	Rock (V)	-	
		35																	
	774.4	36 EOB	50/4"	-	25	SS-15	-	-	-	-	-	-	-	-	-	1	Rock (V)	-	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 125 LB. BENTONITE CHIPS

RIGHT OF WAY LEGEND SHEET
WAR-63-0.83

CITY OF MONROE
TURTLECREEK TOWNSHIP
WARREN COUNTY

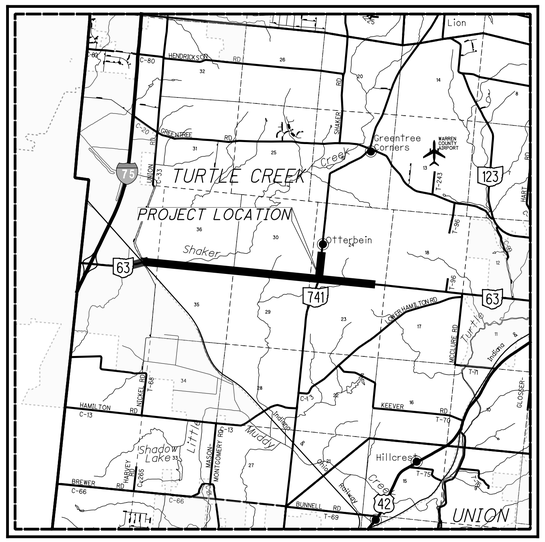
VOLUME PAGE
WARREN COUNTY ENGINEERS
RECORD OF LAND SURVEYS

PROJECT DESCRIPTION

WIDENING OF SR63 IN WARREN COUNTY BETWEEN UNION ROAD AND EAST OF SR 741 INTERSECTION.

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.



LOCATION MAP

LATITUDE: 39°25'52" LONGITUDE: -84°17'03"

SCALE IN MILES
0 1 2 3 4

N

Begin Project SLM= 0.83
End Project SLM = 3.25

PORTION TO BE IMPROVED

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

CONVENTIONAL SYMBOLS

County Line
Township Line
Section Line
Corporation Line or
Fence Line (Ex) (Pr)
Center Line
Right of Way (Ex) Ex R/W
Right of Way (Pr) R/W
Standard Highway Ease.(Ex) Ex SH
Standard Highway Ease.(Pr) SH
Temporary Right of Way TMP
Channel Ease. (Pr) CH
Utility Ease. (Ex) Ex U
Railroad or
Guardrail (Ex) (Pr)
Construction Limits
Edge of Pavement (Ex)
Edge of Pavement (Pr)
Edge of Shoulder (Ex)
Edge of Shoulder (Pr)
Ditch / Creek (Ex)
Ditch / Creek (Pr)
Tree Line (Ex)
Ownership Hook Symbol , Example
Property Line Symbol , Example
Break Line Symbol , Example
Tree (Pr) , Tree (Ex) , Shrub (Ex)
Tree (Remove) , Shrub (Remove)
Evergreen (Ex) , Stump
Evergreen (Remove) , Stump (Remove)
Wetland (Pr) , Grass (Pr) , Aerial Target
Post (Ex) , Mailbox (Ex) MB , Mailbox (Pr) MB
Light (Ex) , Telephone Marker (Ex) TEL
Fire Hydrant (Ex) , Water Meter (Ex) WM
Water Valve (Ex) , Utility Valve Unknown (Ex.)
Telephone Pole (Ex) , Power Pole (Ex)
Light Pole (Ex)

INDEX OF SHEETS:

LEGEND SHEET	1
CENTERLINE PLAT	2-5
PROPERTY MAP	6
SUMMARY SHEET	7
RW DETAIL SHEETS	8-24, 24A

MONUMENT LEGEND

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
- I.R.F. IRON PIN FOUND
- I.R.F. IRON PIN FOUND W/ ID CAP
- I.R.S. IRON PIN SET W/ ID CAP
- R.F. IRON PIPE FOUND
- R.S. IRON PIPE SET
- P.K.F. P.K. NAIL FOUND
- P.K.S. P.K. NAIL SET

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

BTLP =BUTLER CTY WATER AND SEWER
CRCP =CROWN CASTLE DUEP =DUKE ENERGY ELECTRIC
DUGP =DUKE ENERGY GAS DUGPTG =DUKE ENERGY GAS TRANSMISSION
IFNP =INDEPENDENTS FIBER NETWORK / U MCIP =MCI
OBFP =AT&T - OHIO ODT8 =ODOT 8 TRAFFIC (DISTRICT 8)
UTBP =CTLCL - CENTURYLINK (USIC) WRRS =WARREN CTY WATER & SEWER (SEWE
WRRW =WARREN CTY WATER & SEWER (WATE WSOP =CHARTER COMM (SPECTRUM/TIME WA

Butler County Water & Sewer
130 High Street
Hamilton, OH 45011
513-887-5699 (Martha Shelby)
shelbyma@butlercountyohio.org

Crown Castle Fiber
470 Schrock Rd, Suite B
Columbus, OH 43229
585-445-5813 (Jon Tarnowski)
Jon.Tarnowski@crowncastle.com

Duke Energy Electric (Distribution)
2010 Dana Ave
Cincinnati, OH 45207
513-458-3855 (Chris Tepe)
Chris.Tepe@Duke-Energy.com

Duke Energy Electric (Transmission)
139 E. 4th St, Rm 552A
Cincinnati, OH 45202
513-287-1266 (Tim Meyer)
Tim.Meyer@duke-energy.com

Duke Energy Gas
139 East 4th St., Room 460A
Cincinnati, OH 45202
OH/KYHouseBill@duke-energy.com

Independents Fiber Network/Comnet
13888 S. Dixie Dr.
Wapakoneta, OH 45895
osp@cniteam.com

419-739-3100 (Randall Plaisier)
plaisier@cniteam.com

MCI/Verizon
120 Ravine St
Akron, OH 44303
330-253-8267 (Al Guest)
Allan.guest@verizonbusiness.com

ATT Ohio
7201 Far Hills Ave.
Dayton Ohio 45459
937-296-3588 (Howard Laudermilk)
HL1596@att.com

ATT Metro/LNS
Thayer Power and Communication
Line Construction Co., LLC
950 Freeway Drive N.
Columbus, OH 43229
(614) 431-9292 (Christopher McCloskey)
chrismccloskey@thayerpc.com

AT&T Transmission Long Distance
7555 E. Pleasant Valley Rd. Suite 140
Independence, OH 44131
216-750-0135 (Michael Diederich)
md4145@att.com

ODOT D8 Traffic
505 South SR741
Lebanon, Ohio 45036
513-933-6692 (Jim Judd)
jim.judd@dot.ohio.gov

CenturyLink
20 N Mechanic St
Lebanon, Oh 45036
513-933-3502 (Jordan Langston)
Jordan.Langston@centurylink.com

Warren County Water & Sewer
406 Justice Drive
Lebanon, OH 45036
513-695-1377 (Chris Brausch)
Chris.brausch@co.warren.oh.us

Charter Communications
10920 Kenwood Road
Blue Ash, Ohio 45242
DL-Southern-Ohio-Outside-Plant@charter.com

FEDERAL PROJECT NO.
PID NO. 112121
CALCULATED DE CHECKED JT
RIGHT OF WAY LEGEND SHEET
WAR-63-0.83
1 / 24
0 0

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WARREN_COUNTY
CITY_OF_MONROE
TURTLECREEK_TOWNSHIP
SECTIONS 5 & 6 T3E R3N
SECTIONS 35 & 36 T4E R3N

UNION RD CURVES

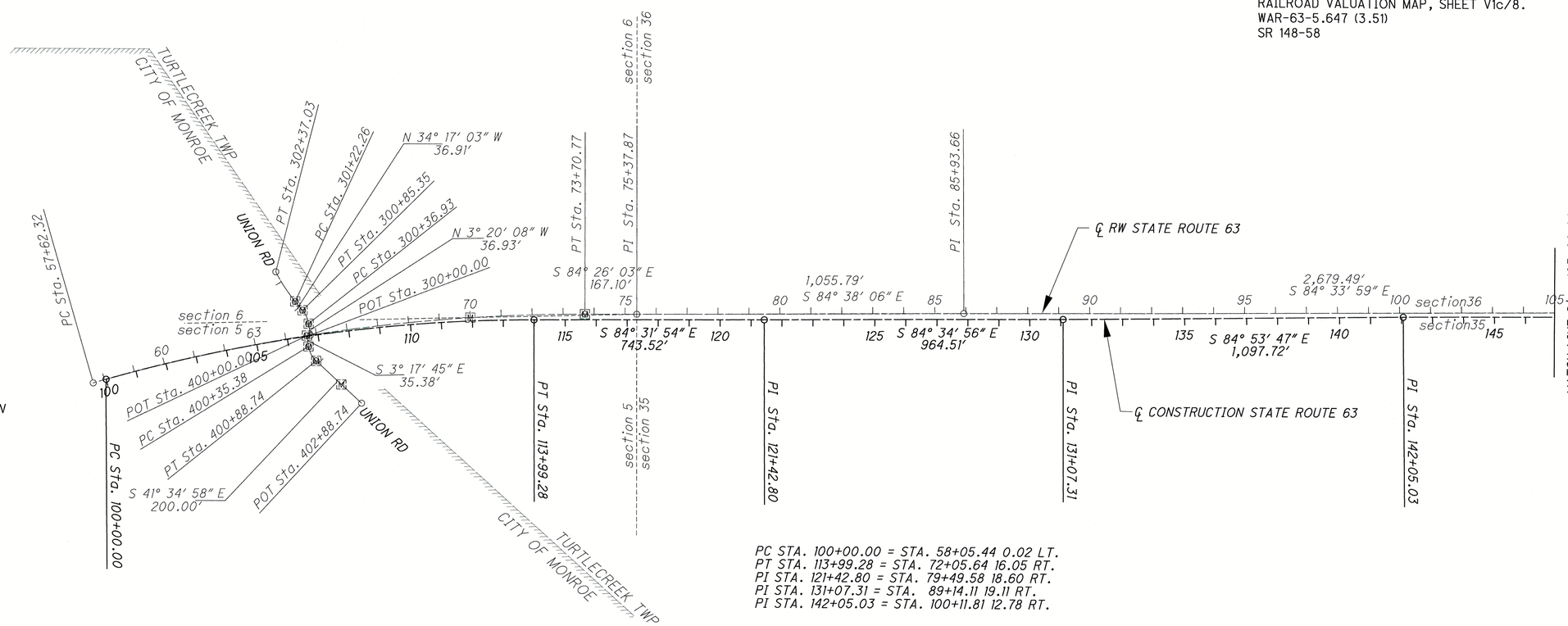
UNIONCL1
P.I. Sta. 300+61.74
Δ = 30° 49′ 27″ (LT)
Dc = 63° 39′ 43″
R = 90.00′
T = 24.81′
L = 48.42′
E = 3.36′
C = 47.84′
C.B. = N 18° 39′ 38″ W

UNIONCL2
P.I. Sta. 301+79.90
Δ = 13° 09′ 09″ (RT)
Dc = 11° 27′ 33″
R = 500.00′
T = 57.64′
L = 114.78′
E = 3.31′
C = 114.53′
C.B. = N 27° 42′ 29″ W

SUNIONCL1
P.I. Sta. 400+63.09
Δ = 38° 12′ 50″ (LT)
Dc = 71° 37′ 11″
R = 80.00′
T = 27.71′
L = 53.36′
E = 4.66′
C = 52.37′
C.B. = S 22° 28′ 33″ E

NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING
WAR-63-2.92
WAR-63-0.12
WAR-25-0.00
S.H.185, SEC. C(pt)
RAILROAD VALUATION MAP, SHEET V1c/8.
WAR-63-5.647 (3.51)
SR 148-58

CENTERLINE R/W
P.I. Sta. 65+71.87
Δ = 16° 05′ 04″ (RT)
Dc = 1° 00′ 00″
R = 5,729.58′
T = 809.55′
L = 1,608.45′
E = 56.91′
C = 1,603.17′
C.B. = N 87° 31′ 25″ E



CENTERLINE CONSTRUCTION
P.I. Sta. 107+04.11
Δ = 15° 47′ 54″ (RT)
Dc = 1° 07′ 45″
R = 5,074.75′
T = 704.11′
L = 1,399.28′
E = 48.61′
C = 1,394.85′
C.B. = N 87° 34′ 09″ E

PC STA. 100+00.00 = STA. 58+05.44 0.02 LT.
PT STA. 113+99.28 = STA. 72+05.64 16.05 RT.
PI STA. 121+42.80 = STA. 79+49.58 18.60 RT.
PI STA. 131+07.31 = STA. 89+14.11 19.11 RT.
PI STA. 142+05.03 = STA. 100+11.81 12.78 RT.

ALL IRON PINS SET 5/8″ DIAMETER, 30″ IN LENGTH AND IDENTIFIED WITH PLASTIC CAP STAMPED "ODOT DIST 8"

SETTING OF ALL MONUMENTS SHALL BE PERFORMED BY A SURVEYOR REGISTERED IN THE STATE OF OHIO. THE MONUMENT ASSEMBLIES AND REFERENCE MONUMENTS WILL BE INSTALLED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE IRON PIN AND CAP (WHEN REQUIRED) ARE TO BE INSTALLED BY THE CONTRACTOR'S SURVEYOR.

CHANGES OR ALTERATIONS TO THE LOCATION OF ANY MONUMENTS SHOWN IN THIS TABLE, REQUIRE PRIOR APPROVAL FROM THE DISTRICT REAL ESTATE ADMINISTRATOR OF THE OHIO DEPARTMENT OF TRANSPORTATION. IN THE EVENT THAT CHANGES OR ALTERATIONS ARE APPROVED, A REVISED CENTERLINE PLAT WITH THE NEW LOCATIONS SHALL BE RECORDED IN THE APPLICABLE COUNTY RECORDS AND THE OHIO DEPARTMENT OF TRANSPORTATION. SPECIFICATIONS FOR MONUMENT ASSEMBLIES, REFERENCE MONUMENTS AND RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1.

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William H. Helmick, Professional Land Surveyor Ohio-S8030

Date: 07/13/2022

SURVEYORS SEAL
STATE OF OHIO
WILLIAM H. HELMICK
8030
REGISTERED
PROFESSIONAL SURVEYOR

HORIZONTAL SCALE IN FEET
0 100 200 400

R/W DESIGNER DE
R/W REVIEWER JT

PID NO. 112121

CENTERLINE PLAT

WAR-63-0.83

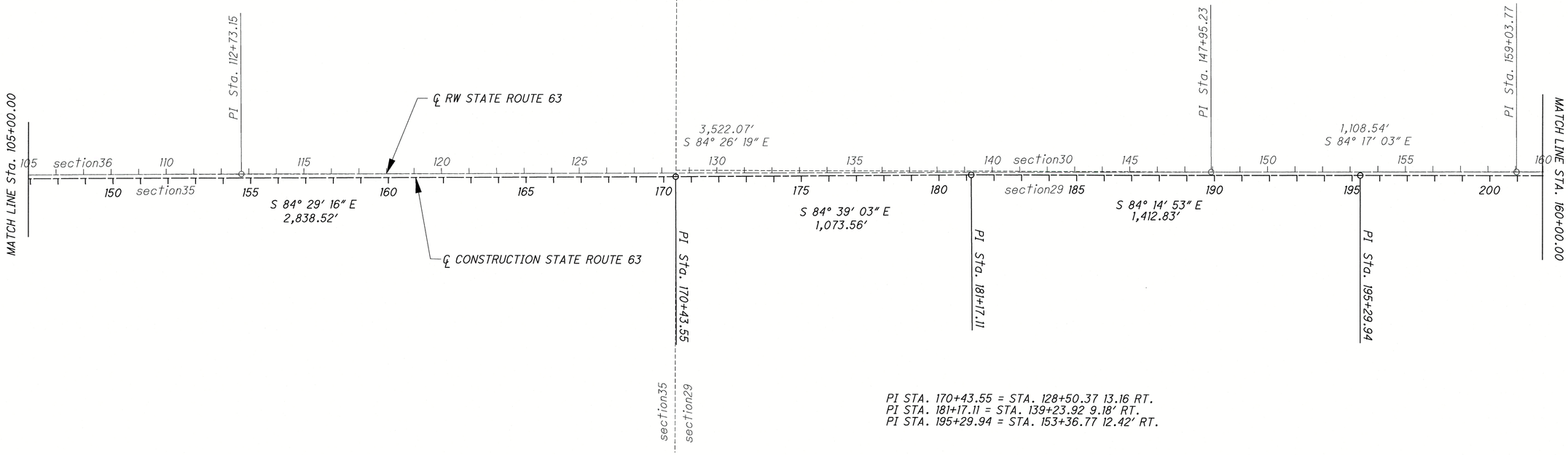
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WARREN_COUNTY

TURTLECREEK_TOWNSHIP
SECTIONS 29 & 30 T4E R3N
SECTIONS 35 & 36 T4E R3N



PI STA. 170+43.55 = STA. 128+50.37 13.16 RT.
PI STA. 181+17.11 = STA. 139+23.92 9.18' RT.
PI STA. 195+29.94 = STA. 153+36.77 12.42' RT.

ALL IRON PINS SET 5/8" DIAMETER, 30" IN LENGTH AND IDENTIFIED WITH PLASTIC CAP STAMPED "ODOT DIST 8"

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Date: 07/13/2022

SURVEYORS SEAL

STATE OF OHIO
WILLIAM H. HELMICK
8030
REGISTERED
PROFESSIONAL SURVEYOR



R/W DESIGNER DE
R/W REVIEWER JT

PID NO. 112121

CENTERLINE PLAT

WAR-63-0.83

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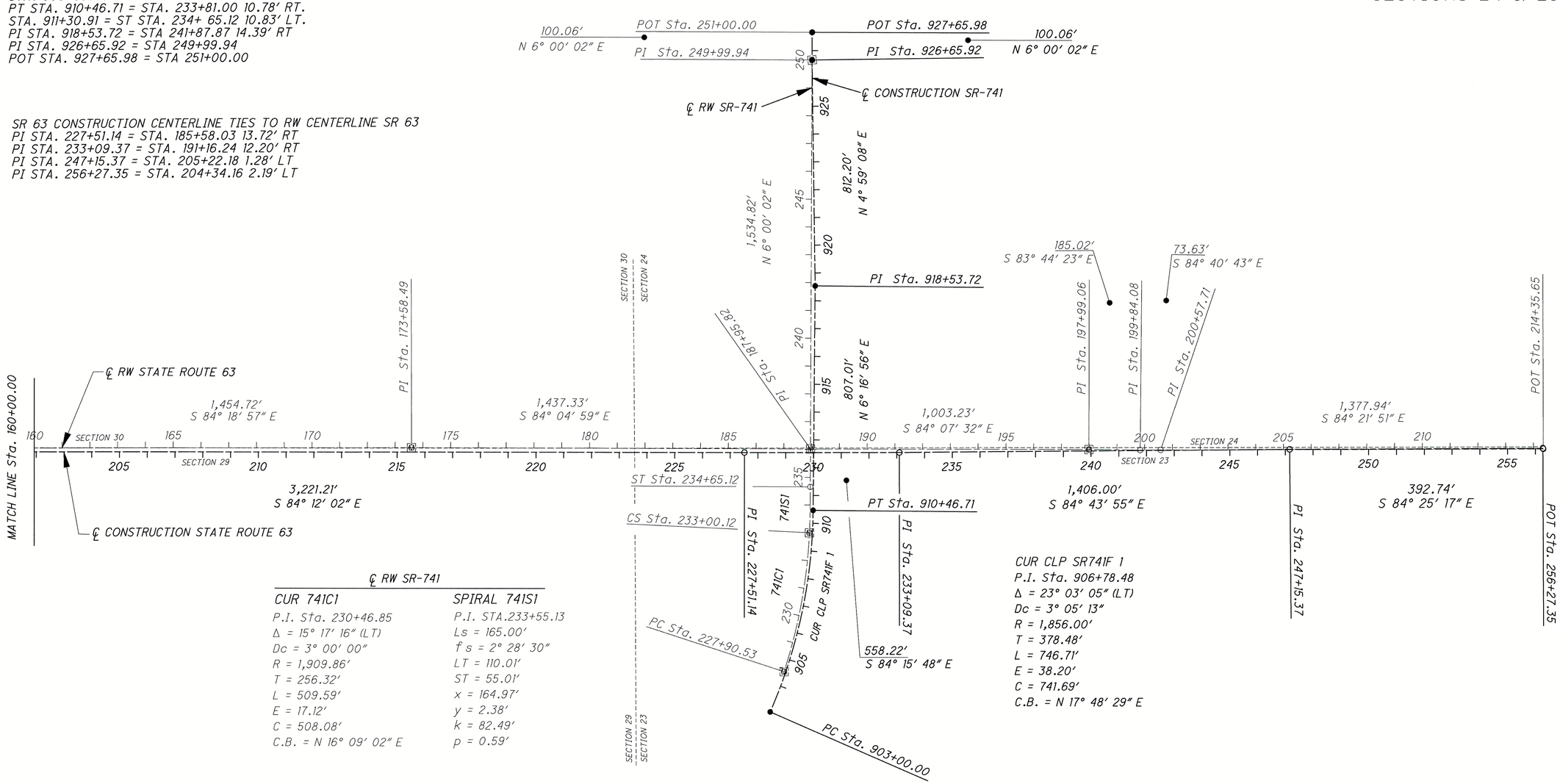
WARREN_COUNTY

TURTLECREEK_TOWNSHIP
SECTIONS 29 & 30
SECTIONS 24 & 23

CONSTRUCTION ℄ 741 STA. 912+54.49 = CONSTRUCTION ℄ 63 STA 230+00.52
RW ℄ 741 STA. 236+01.56 = RW ℄ 63 STA 187+95.99

SR 741 CONSTRUCTION CENTERLINE TIES TO RW CENTERLINE SR 741
STA. 904+53.48 = PC STA. 227+90.53 5.86' LT.
STA. 909+65.44 = CS STA. 233+00.12 10.72' LT.
PT STA. 910+46.71 = STA. 233+81.00 10.78' RT.
STA. 911+30.91 = ST STA. 234+ 65.12 10.83' LT.
PI STA. 918+53.72 = STA 241+87.87 14.39' RT
PI STA. 926+65.92 = STA 249+99.94
POT STA. 927+65.98 = STA 251+00.00

SR 63 CONSTRUCTION CENTERLINE TIES TO RW CENTERLINE SR 63
PI STA. 227+51.14 = STA. 185+58.03 13.72' RT
PI STA. 233+09.37 = STA. 191+16.24 12.20' RT
PI STA. 247+15.37 = STA. 205+22.18 1.28' LT
PI STA. 256+27.35 = STA. 204+34.16 2.19' LT



℄ RW SR-741	
CUR 741C1	SPIRAL 741S1
P.I. Sta. 230+46.85	P.I. STA.233+55.13
Δ = 15° 17' 16" (LT)	Ls = 165.00'
Dc = 3° 00' 00"	f s = 2° 28' 30"
R = 1,909.86'	LT = 110.01'
T = 256.32'	ST = 55.01'
L = 509.59'	x = 164.97'
E = 17.12'	y = 2.38'
C = 508.08'	k = 82.49'
C.B. = N 16° 09' 02" E	p = 0.59'

CUR CLP SR741F 1
P.I. Sta. 906+78.48
Δ = 23° 03' 05" (LT)
Dc = 3° 05' 13"
R = 1,856.00'
T = 378.48'
L = 746.71'
E = 38.20'
C = 741.69'
C.B. = N 17° 48' 29" E

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HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

CENTERLINE PLAT

WAR-63-0.83

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NOTE: SEE CONSTRUCTION PLAN FOR PROJECT PRIMARY CONTROL POINTS.

WARREN_COUNTY
CITY OF MONROE
TURTLECREEK_TOWNSHIP
SECTION 5 & 6 T4E R3N
SECTIONS 35 & 36 T4E R3N
SECTIONS 29 & 30 T4E R3N
SECTIONS 24 & 23 T4E R3N

MONUMENT TABLE

Point	North	East	℄ of RW SR 63 Station	Offset	FEATURE
BVD10	528,669.6430	1,465,094.4700	179+39.35	99.4525	: MAG
FV1000	529,801.2406	1,459,109.6145	118+72.37	-437.1015	: IPID 5/8" BRIGGS 7366
FV1001	529,778.5283	1,459,340.5848	121+04.45	-436.8802	: IPID 5/8" BRIGGS 7366
FV1002	529,975.2339	1,459,334.5672	120+79.40	-632.0767	: IPID 5/8" BRIGGS 7366
IPIN1	529,442.3216	1,462,732.7626	155+12.08	-432.9356	: ipin 5/8'
OS112	528,436.5400	1,467,926.8620	207+80.49	43.2780	: IPIPE 3/4"
OS113	528,195.2310	1,471,131.0170	is out of chain.		: IPIN 5/8"
OS114	526,304.4900	1,465,161.4270	182+49.76	2,445.1032	: IPIN 5/8"
OS115	526,305.1730	1,465,154.5360	182+42.84	2,445.1342	: IPIPE 3/4"
OS116	526,307.6270	1,465,133.9150	182+22.08	2,444.8190	: IPIN 5/8"
SP1	528,697.5380	1,454,642.9630	75+33.78	1,084.6857	: ipin 5/8"
VA1	529,005.0790	1,463,082.1220	159+03.25	-32.6608	: ipin 5/8"
VA2	529,402.4500	1,463,121.6720	159+03.03	-431.9951	: ipin-TOP 5/8"
VA2	529,402.8530	1,463,121.3700	159+02.69	-432.3660	: ipin-BASE BENT
VB2026	528,923.2190	1,463,475.6250	163+02.94	9.8213	: MAG
VB2056	528,830.2180	1,464,728.1640	175+58.45	-22.5065	: IPIN 3/4"
VBN10	528,489.4200	1,468,338.4010	211+84.85	-49.7619	: IPIN 3/4"
VBN11	528,470.9140	1,468,402.4970	212+50.45	-37.6400	: IPIN 3/4"
VBN12	528,516.1760	1,468,071.4770	209+16.58	-50.1751	: IPIN 3/4" BENT
VBN13	528,536.3170	1,468,015.5700	208+58.97	-64.7283	: IPIN 3/4"
VBN14	528,578.2790	1,467,820.3700	206+60.59	-87.3177	: IPIN 3/4" BENT
VBN15	528,591.2320	1,467,694.1770	205+33.74	-87.8152	: IPIN 3/4"
VBN16	528,560.0260	1,467,630.7730	204+73.70	-50.5334	: IPIN 3/4"
VBN17	528,621.2530	1,467,018.4010	198+57.72	-50.3556	: IPIN 3/4"
VBN18	528,520.8520	1,467,107.9400	199+57.68	39.6827	: IPIN 3/4"
VBN19	528,417.5530	1,467,676.1260	205+32.83	86.7970	: IPIN 3/4"
VBN20	528,407.8990	1,467,774.9620	206+32.14	86.6980	: IPIN 3/4"
VBN22	528,389.5710	1,468,328.5180	211+84.82	50.5750	: IPIN 3/4"
VBN26	530,068.1430	1,466,128.3630	188+24.61	-1,398.1546	: IPIN 3/4"
VC1028	529,642.6470	1,453,781.4750	65+57.67	171.7179	: MONBOX
VC1029	529,725.7570	1,453,707.6110	64+86.54	84.9506	: MONBOX
VC1030	529,774.1520	1,453,687.5890	64+69.21	35.4643	: MONBOX
VC1031	529,809.4730	1,453,685.5550	64+69.31	0.0850	: MONBOX 3/4"
VC1032	529,847.0920	1,453,694.6840	64+80.61	-36.9280	: MONBOX

Point	North	East	℄ of RW SR 63 Station	Offset	FEATURE
VC1033	529,892.4140	1,453,679.3780	64+68.15	-83.0775	: MONBOX
VC1034	529,922.9120	1,453,658.5860	64+49.61	-114.8055	: MONBOX
VC1035	529,817.1050	1,454,216.1670	70+00.16	-0.1898	: MONBOX
VC1036	529,792.9200	1,454,585.9280	73+70.77	0.0000	: MONBOX
VC2096	529,715.1750	1,453,754.5300	65+33.59	98.0070	: IPIN 5/8"
VC2097	529,707.8620	1,455,806.2260 B	85+93.66	-30.0000	: IPIN 5/8"
VC2098	531,732.9230	1,455,993.8380	85+91.12	-2,063.7314	: IPIN 1/2"
VD3	530,070.9820	1,466,102.9720	187+99.06	-1,398.3800	: 3/4" PIN IN MONBOX
VD4	528,380.7610	1,465,922.8310	187+93.08	301.4043	: 3/4" PIN IN MONBOX
VD5	528,828.4440	1,464,526.9510	173+58.49	0.0000	: 3/4" PIN IN MONBOX
VD6	528,680.2770	1,465,956.6280	187+95.82	0.0000	: 3/4" PIN IN MONBOX
VE2102	528,862.7100	1,465,020.2740	178+45.65	-84.9374	: MAGS
VE3	529,523.7880	1,458,480.6510	112+73.25	-99.9999	: 5/8" IPIN
VE4	529,523.7880	1,458,480.6510	112+73.25	-99.9999	: 5/8" IPIN
VI1	531,975.8220	1,453,371.6530	63+36.78	-2,183.3403	: 5/8" IPIN
VI2	531,975.8090	1,453,371.6510	63+36.77	-2,183.3276	: 5/8" IPIN
VI3	529,903.8500	1,453,759.4200	65+47.49	-90.2196	: 5/8" IPIN
VP109	535,129.0900	1,454,915.5860	72+72.74	-5,344.6059	: ipin .5" HENDERSON BODWELL 1' S OF FEN
VP122	534,915.9510	1,456,990.4520	92+79.38	-5,326.8237	: IPIN .5" IPIN .5" HENDERSON BODWELL
VP125	533,522.2920	1,456,841.4520	92+63.02	-3,925.3178	: 5/8" IPIN
VP126	533,464.6500	1,457,421.3020	98+45.72	-3,922.8419	: 5/8" IPIN
VP133	530,703.3790	1,455,938.3870	86+30.94	-1,033.5583	: 5/8" IPIN
VP136	535,184.7420	1,454,377.5630	69+93.50	-5,370.2447	: STONE
VP138	531,371.7490	1,460,259.2250	128+64.36	-2,111.6299	: 5/8" IPIN
VP139	531,680.4090	1,457,230.1800	98+24.41	-2,128.5205	: 5/8" IPIN
VRR1	529,362.8550	1,454,007.9850	67+90.02	457.0318	: 5/8" IPIN
VRR2	529,354.8230	1,454,099.6560	68+89.75	464.6526	: 5/8" IPIN
VRS10	529,397.5190	1,459,071.3160	118+73.38	-31.5686	: 5/8" IPIN
VRS11	529,330.5270	1,459,777.4540	125+82.68	-33.3262	: 5/8" IPIN
VRS12	529,805.3990	1,459,065.6720	118+28.23	-436.9817	: 5/8" IPIN
VWH138	528,680.3120	1,465,956.5720	187+95.76	-0.0290	: MONBOX
VWH139	528,577.5950	1,466,954.5940	197+99.06	0.0000	: MONBOX
VWH140	530,071.0420	1,466,102.7230	187+98.80	-1,398.4141	: MONBOX
VWH141	527,892.7330	1,465,781.5030	187+02.81	801.4011	: MONBOX

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Date: 07/13/2022

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STATE OF OHIO
WILLIAM H. HELMICK
8030
REGISTERED
PROFESSIONAL SURVEYOR

HORIZONTAL SCALE IN FEET

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

CENTERLINE PLAT

WAR-63-0.83

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WARREN_COUNTY

TURTLECREEK_TOWNSHIP
SECTIONS 29 & 30 T4E R3N
SECTIONS 24 & 23 T4 R3N

WARREN GENERAL PROPERTY
6000 S.R. 63
LEBANON, OH 45036
APN# 1106400020

SARGENT DONALD L. & CAROLYN
4350 HAMILTON RD
LEBANON, OH 45036
APN# 1228300003

INSET NOT TO SCALE

SEE SHEET 7 FOR PARCEL NUMBERS AND OWNERS

OTTERBEIN LEBANON LLC
N S.R. 741
LEBANON, OH 45036
APN# 1230200007

OTTERBEIN LEBANON LLC
585 N S.R. 741
LEBANON, OH 45036
APN# 1230200006

OTTERBEIN HOME
N S.R. 741
LEBANON, OH 45036
APN# 1224200016

UNION VILLAGE
N S.R. 741
LEBANON, OH 45036

STATE OF OHIO
S.R. 63
LEBANON, OH 45036
APN# 1236400007

CINCINNATI GAS AND ELECTRIC
4596 S.R. 63
LEBANON, OH 45036
APN# 1230300002

DUKE ENERGY OHIO INC.
S.R. 63
LEBANON, OH 45036
APN# 1230300004

CINCINNATI GAS AND ELECT CO
S.R. 63
LEBANON, OH 45036
APN# 1224300003

STATE OF OHIO
S.R. 63
LEBANON, OH 45036
APN# 1229100004

PRESERVE AREA FOR
ENVIROMENTAL COVENANT
DOC.# 2018-030046
17.80 ACRE

OTTERBEIN HOME
S.R. 741
LEBANON, OH 45036
APN# 1223100030

STATE ROUTE 741
STATE ROUTE 63
Ex R/W
Ex LA-R/W
section 36
section 35
section 30
section 29
section 24
section 23
MONROE OUTPOST

REV. BY	DATE	DESCRIPTION
W.H.H	07/19/23	ADDED ENVIROMENTAL COVENANT TO PAR.7
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 250 500 1000

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

PROPERTY MAP

WAR-63-0.83

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whelmick

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TOTAL NUMBER OF :

3 OWNERSHIPS 0 TOTAL TAKES
4 PARCELS 0 OWNERSHIPS W/ STRUCTURES INVOLVED

ALL AREAS IN ACRES

NET TAKE = GROSS TAKE - PRO IN TAKE
NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

GRANTEE:
ALL RIGHT OF WAY ACQUIRED IN THE NAME OF
Warren County Transportation Improvement District
UNLESS OTHERWISE SHOWN.

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD BOOK	OWNERS RECORD PAGE	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS	AS ACQUIRED BOOK	AS ACQUIRED PAGE
1	STATE OF OHIO	8-13,19,21	124	109	1229100004	945.8707									NO TAKE		
2WL	CINCINNATI GAS & ELECTRIC CO.	24A	4077	623	1230300002	3.400	0.400	0.400	0.400	0.000		3.000			TAKE CURRENT PRO, ACCESS RIGHTS RESTRICTED		
															ACCESS RIGHTS RESTRICTED		
3 T	CINCINNATI GAS & ELECTRIC CO.	13,21	471	270	1224300003	0.554	0.000	0.026	0.000	0.026					FOR GRADING AND SEEDING		
3 PRW		13,21													ACCESS RIGHTS RESTRICTED		
4 WL	OTTERBEIN LEBANON LLC	8,9,10,11	4902	534	1230200007	199.8258	1.0020	2.1823	1.0020	1.1803		197.6435					
			D.N. 2017-021291		1230200006	147.2957											
						347.1215											
4PRW		11,12,13			1230200007		0.000	0.000	0.000						LIMITED ACCESS		
4 PRW-1		21,22			1230200007		0.000	0.000	0.000						LIMITED ACCESS		
5	NOT USED																
6 WD	OTTERBEIN HOME	23-24	96	372	1224200016	488.516	0.000	0.276	0.000	0.276							
6 WL		21-22,14						0.256	0.000	0.256							
							TOTAL	0.532	0.000	0.532		487.984					
6 T		23						0.034	0.000	0.034					FOR GRADING AND SEEDING		
6 PRW		14,15						0	0.000	0.000					LIMITED ACCESS		
7 WD	OTTERBEIN HOME	15-17,19-21	96	372	1223100030	32.535	0.000	0.724	0.000	0.724							
7 WL		14-15,20-21						0.548	0.000	0.548							
							TOTAL	1.272	0.000	1.272			31.263				
8	UNION VILLAGE														NO TAKE		
9	WARREN GENERAL PROPERTY CO. LLC	24	5725	433	1106400020	120.0003									NO TAKE		
10	SCHEELER, ELLEN & FREDERICK L.		D.N.2021-042172		1228300003	7.59									NO TAKE		

TYPES OF TITLE LEGEND:
WL = FEE SIMPLE WITH LIMITATION OF ACCESS
WD = WARRANTY DEED
PRW = PROPERTY RIGHT LIMITATION OF ACCESS
SH = STANDARD HIGHWAY EASEMENT
LA = LIMITED ACCESS EASEMENT
T = TEMPORARY EASEMENT
CH = CHANNEL EASEMENT
A = AERIAL EASEMENT
SL = SLOPE EASEMENT
PRE = PROPERTY RIGHT EASEMENT

NOTE: ALL TEMPORARY PARCELS TO BE OF 24 MONTH DURATION.

REV. BY	DATE	DESCRIPTION
W.H.H.	8/01/23	REVISE PARCELS 4PRW-1 AND 6WL
W.H.H.	7/19/23	UPDATE PAR. 7WD
DATE COMPLETED		

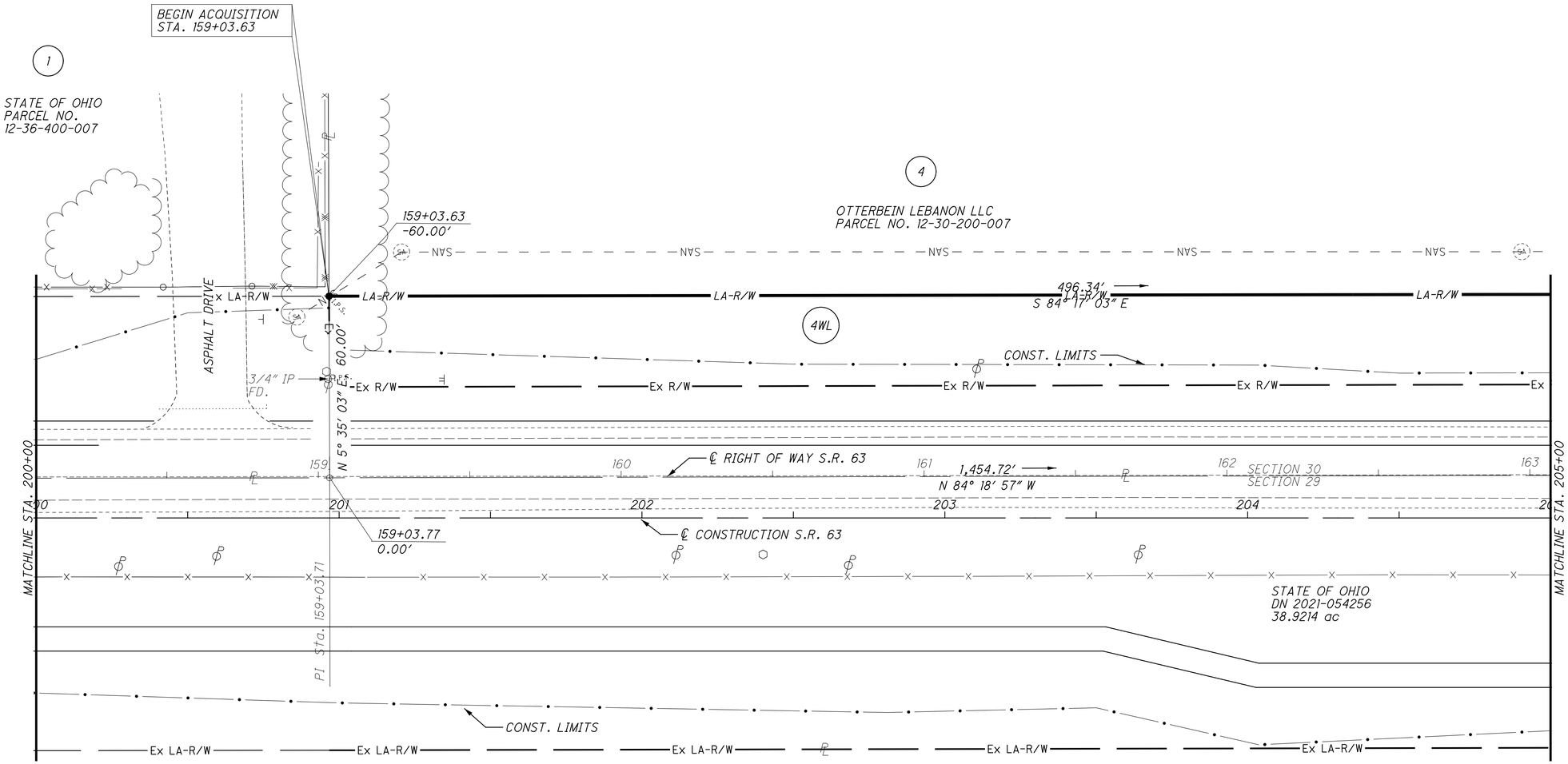
FEDERAL PROJECT NO. .
PID NO. 112121
STATE JOB NO. 480938
R/W DESIGNER DE
R/W REVIEWER JT

SUMMARY OF ADDITIONAL RIGHT OF WAY

WAR-63-0.83

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WARREN_COUNTY
TURTLECREEK_TOWNSHIP
SECTIONS 29 & 30, TOWN 4 RANGE 3



REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

RIGHT OF WAY PLAN
STA. 200+00 TO STA. 205+00

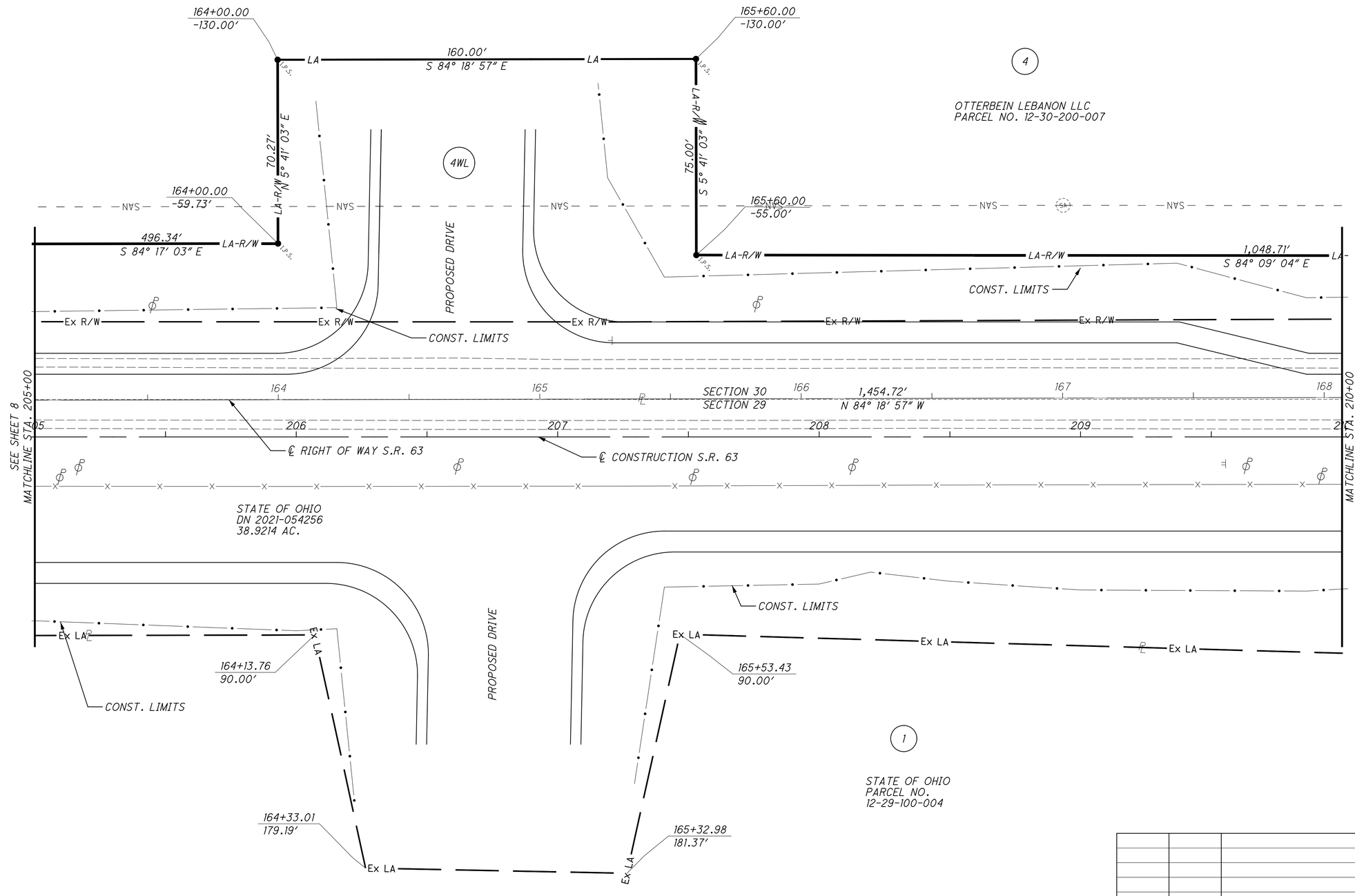
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WARREN_COUNTY
TURTLECREEK_TOWNSHIP
SECTIONS 29 & 30, TOWN 4 RANGE 3



REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

RIGHT OF WAY PLAN
STA. 205+00 TO STA. 210+00

WAR-63-0.83

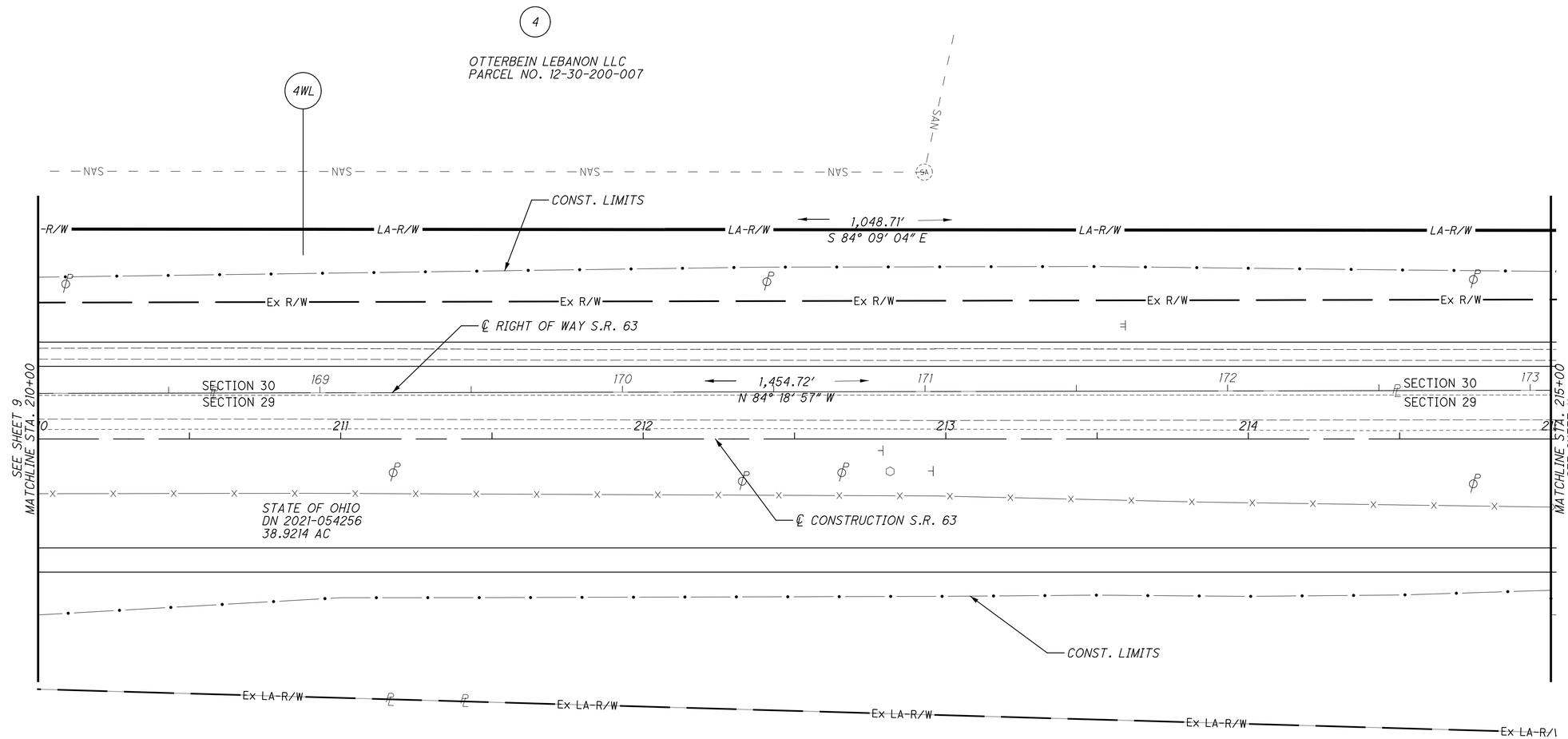
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WARREN_COUNTY
TURTLECREEK_TOWNSHIP
SECTIONS 29 & 30, TOWN 4 RANGE 3



REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

RIGHT OF WAY PLAN
STA. 210+00 TO STA. 215+00

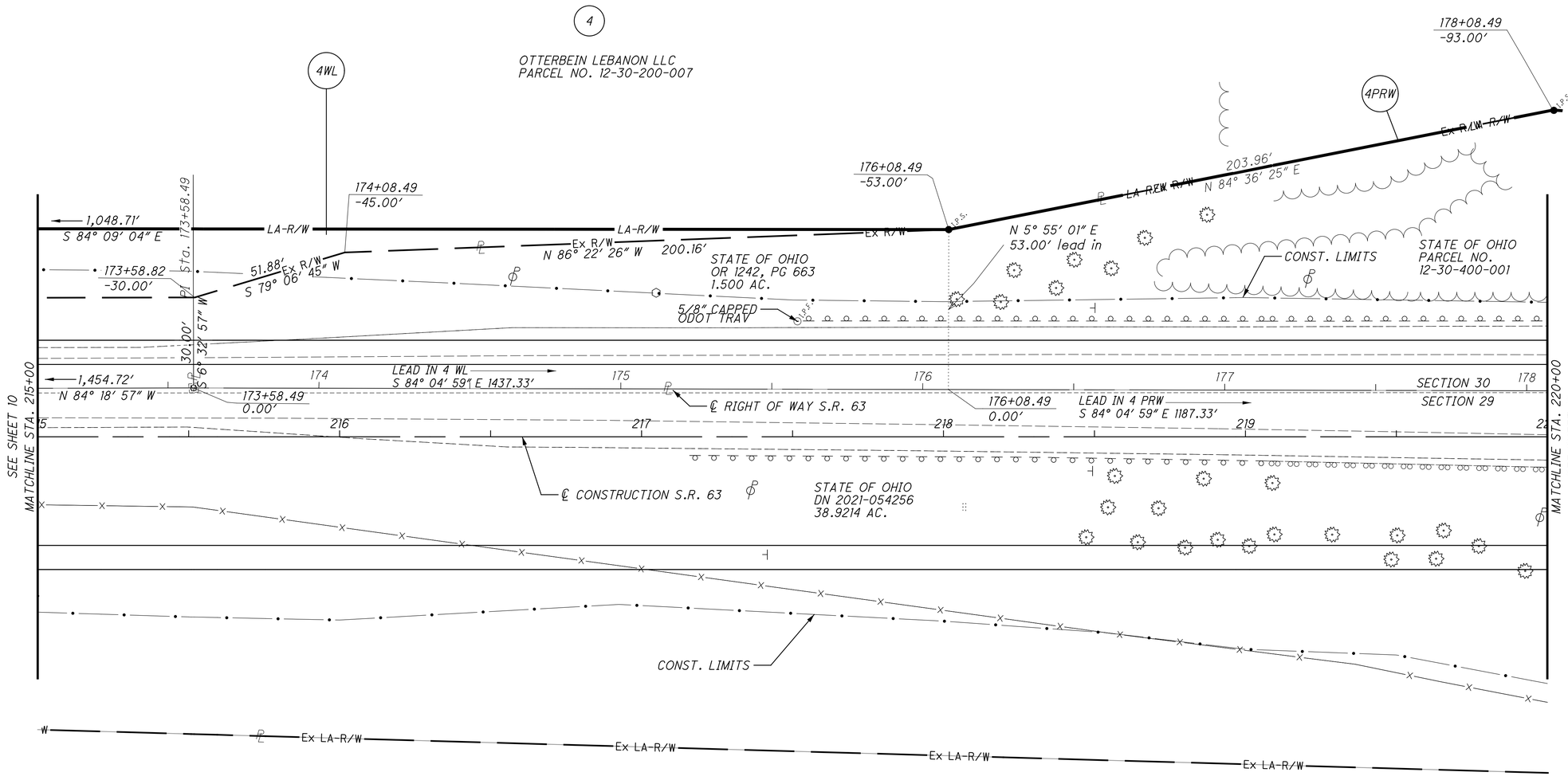
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WARREN_COUNTY
TURTLECREEK_TOWNSHIP
SECTIONS 29 & 30, TOWN 4 RANGE 3



1

STATE OF OHIO
PARCEL NO.
12-29-100-004

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

RIGHT OF WAY PLAN
STA. 215+00 TO STA. 220+00

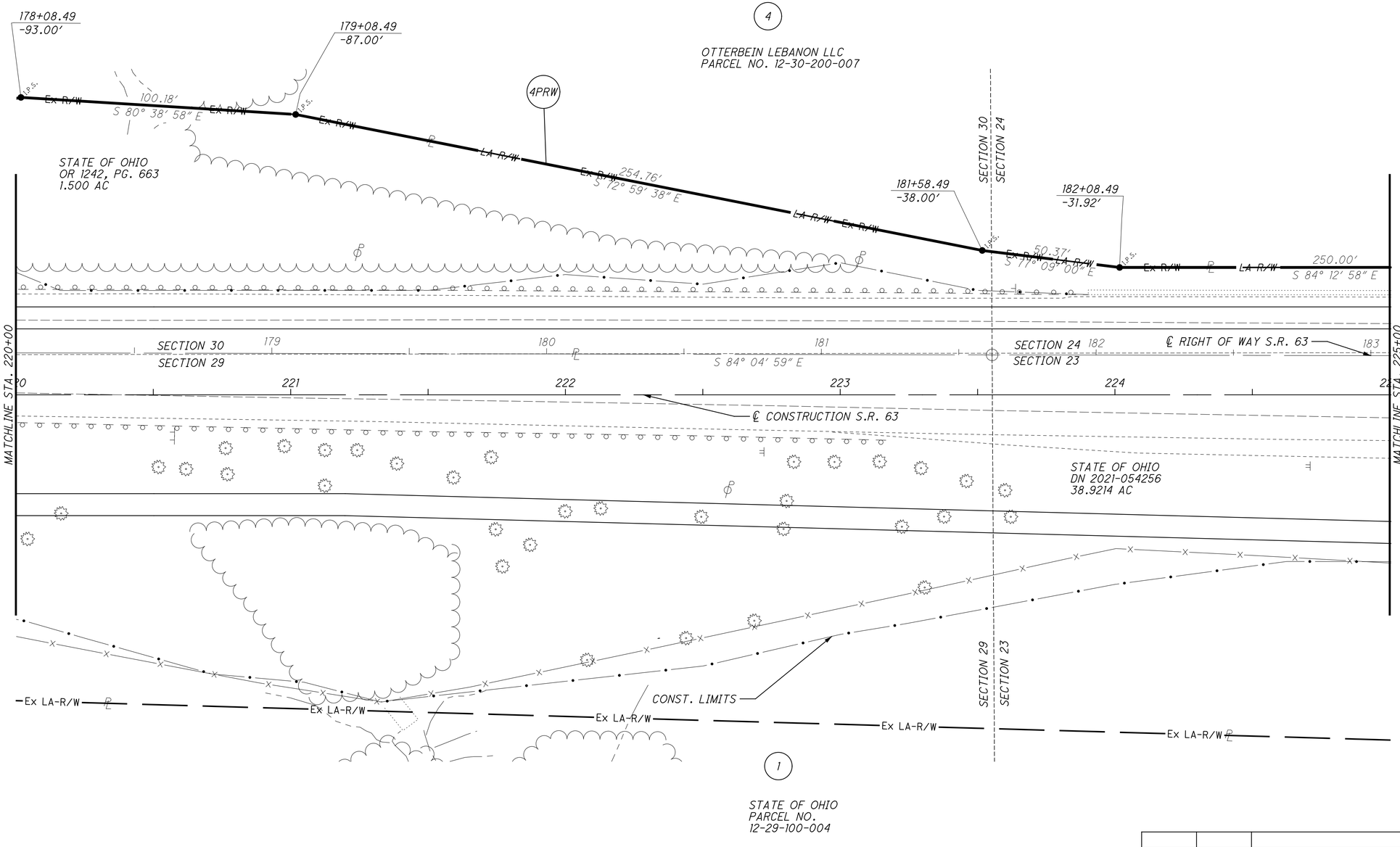
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11 / 24

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WARREN_COUNTY
TURTLECREEK_TOWNSHIP
SECTION 29 & 30, T4, R3
SECTION 23 & 24, T4, R3



REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

RIGHT OF WAY PLAN
STA. 220+00 TO STA. 225+00

WAR-63-0.83

12 / 24

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WARREN_COUNTY
TURTLECREEK_TOWNSHIP
SECTION 24, T4, R3
SECTION 23, T4, R3

PARCEL 3T		
LE1	N 84° 04′ 59″ W	198.82′
LE2	N 05° 54′ 49″ E	32.83′
A	N 5° 44′ 10″ E	5.00′
B	N 88° 10′ 06″ E	111.93′
C	N 64° 02′ 15″ E	47.74′
D	N 3° 50′ 39″ E	70.41′
E	S 84° 08′ 13″ E	5.00′
F	S 3° 50′ 39″ W	72.55′
G	S 64° 02′ 15″ W	53.02′
H	S 88° 10′ 06″ W	112.52′

SEE SHEET 21
MATCHLINE STA. 915+60

3
CINCINNATI GAS & ELECTRIC CO.
STATE ROUTE 63
LEBANON, OH 45036
APN 1224300003

4
OTTERBEIN LEBANON LLC
PARCEL NO. 12-30-200-007

237+50.00
-45.32′
237+49.99
-50.32′
187+48.43
-78.14′
187+53.51
-76.00′
187+07.89
-52.92′
187+08.49
-48.00′
185+96.98
-37.83′
185+97.00
-32.83′
184+58.49
-32.50′

END DRIVEWAY
PERMISSIBLE
POINT OF ACCESS
237+08.47
-43.76′

236+90.47
-43.08′
BEGIN DRIVEWAY
PERMISSIBLE
POINT OF ACCESS

4PRW
3T
3PRW

P 250.00′
S 84° 12′ 58″ E
138.51′
S 84° 13′ 11″ E
N 06° 00′ 02″ E
PI Sta. 187+95.82

Ex R/W
LA R/W
TMP Ex R/W
A
B
C
D
E
F
G
H
LE1
LE2

STATE OF OHIO
OR 1242 PG 663
1.500 AC

STATE OF OHIO
OR 1258 PG 610
0.364 AC

STATE OF OHIO
DN 2021-054256
38.9214 AC

SECTION 24
SECTION 23
N 84° 04′ 59″ W

℄ RIGHT OF WAY S.R. 63
℄ CONSTRUCTION S.R. 63
℄ RIGHT OF WAY S.R. 741
℄ CONSTRUCTION S.R. 741

CONST. LIMITS

914
913
912
237
236
235

SEE SHEET 12
MATCHLINE STA. 225+00
MATCHLINE STA. 230+00
SEE SHEET 14
MATCHLINE STA. 911+20
SEE SHEET 20

1
STATE OF OHIO
PARCEL NO.
12-29-100-004

REV. BY	DATE	DESCRIPTION
WHH	01/12/23	CHANGED PERMISSIBLE POINT OF ACCESS
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 112121
R/W DESIGNER DE
R/W REVIEWER JT

RIGHT OF WAY PLAN
STA. 225+00 TO STA. 230+00

WAR-63-0.83

13 / 24

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WARREN_COUNTY
TURTLECREEK_TOWNSHIP
SECTION 24, T4, R3
SECTION 23, T4, R3

SEE SHEET 22
MATCHLINE STA. 915+60

N 08° 44' 15" E, 200.27'
R/W
S 04° 48' 36" W, 481.34'
188+86.24
-117.00'
S 38° 11' 22" E, 51.50'
LA-R/W
189+22.06
-80.00'
188+66.64
-98.24'
Ex R/W
N 38° 11' 22" W, 60.18'
189+08.34
-54.81'
TBR
6
OTTERBEIN HOME
STATE ROUTE 741
LEBANON, OH
APN 1224200016
6-WL
S 84° 07' 32" E, 324.43'
LA-R/W
Ex R/W
N 82° 12' 59" W, 150.08'
190+58.49
-50.00'
S 86° 48' 29" W, 190.38'
192+46.49
-80.00'
S 73° 38' 02" E, 164.75'
6
PRW
N 5° 52' 24" E
80.00' lead in

℄ RIGHT OF WAY S.R. 63
℄ CONSTRUCTION S.R. 63
SEE SHEET 13
MATCHLINE STA. 230+00
189
190
191
192
193
230
231
232
233
234
SECTION 24
SECTION 23
S 84° 07' 32" E
112.67' lead in
189+08.49
0.00'
S 84° 07' 32" E
450.73' lead in
S 84° 07' 32" E
192+46.49
0.00'
MATCHLINE STA. 235+00
SEE SHEET 15

℄ CONSTRUCTION S.R. 741
S 5° 52' 34" W
70.00' lead in
STATE OF OHIO
OR 1242 PG 663
12.566 AC
189+08.49
70.00'
Ex R/W
N 1° 58' 59" E
52.90'
189+15.00
105.00'
S 84° 07' 32" E, 150.00'
190+58.49
70.00'
Ex R/W
S 72° 48' 56" E, 101.98'
191+58.49
90.00'
192+46.49
95.00'
S 80° 52' 25" E, 88.14'
N 85° 22' 59" E
164.75'
188+66.18
101.75'
Ex R/W
N 1° 27' 11" E
310.74'
7-WL
LA-R/W
N 84° 07' 32" W, 230.00'
191+45.00
105.00'
N 55° 49' 29" W, 73.82'
S 75° 53' 29" W, 117.05'
S 9° 46' 01" W
413.69'
192+10.00
140.00'
MATCHLINE STA. 911+20
SEE SHEET 20

7
OTTERBEIN HOME
STATE ROUTE 741
LEBANON, OH 45036
APN 1223100030

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

RIGHT OF WAY PLAN
STA. 230+00 TO STA. 235+00

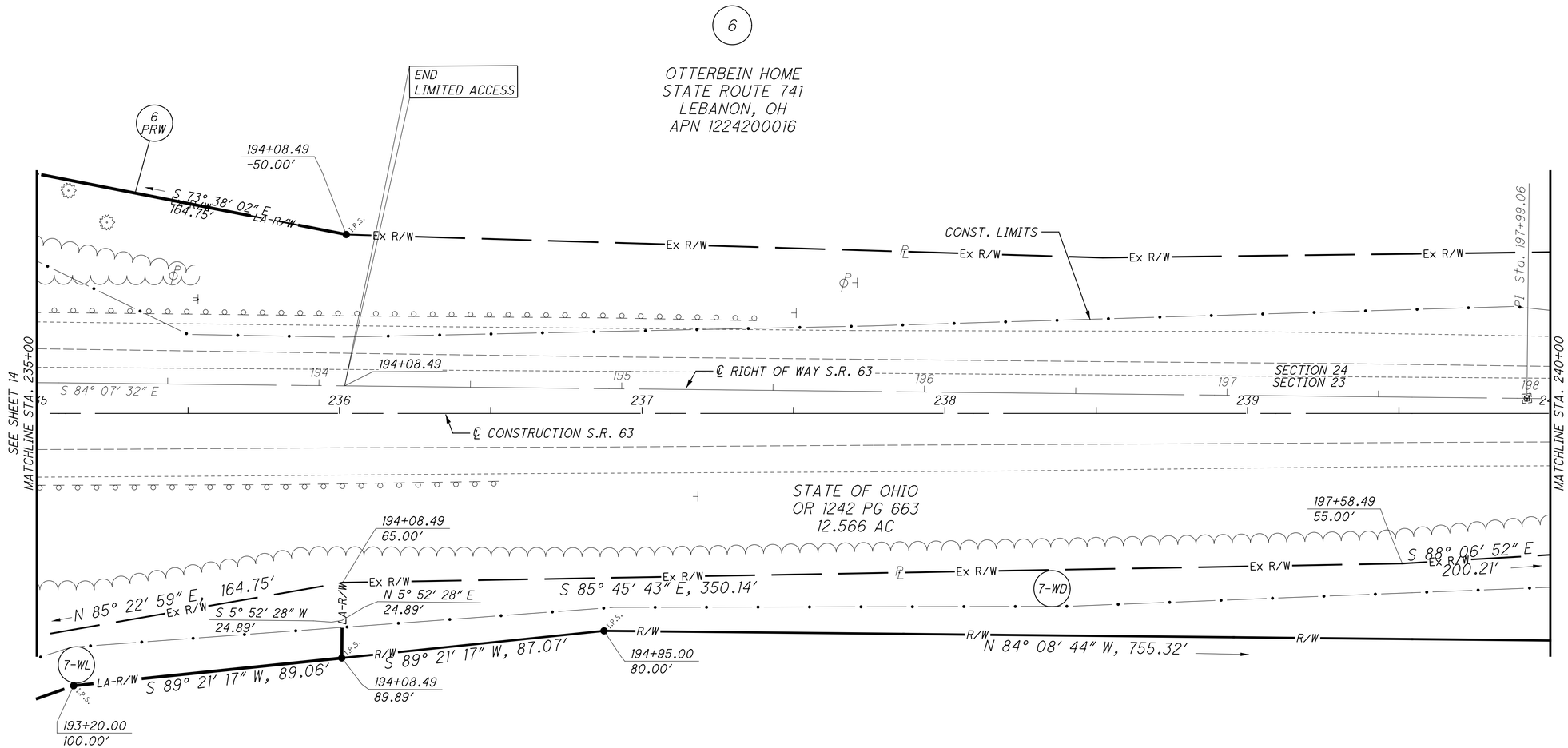
WAR-63-0.83

14 / 24

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WARREN_COUNTY
TURTLECREEK_TOWNSHIP
SECTION 24, T4, R3
SECTION 23, T4, R3



7
OTTERBEIN HOME
STATE ROUTE 741
LEBANON, OH 45036
APN 1223100030

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

RIGHT OF WAY PLAN
STA. 235+00 TO STA. 240+00

WAR-63-0.83

15 / 24

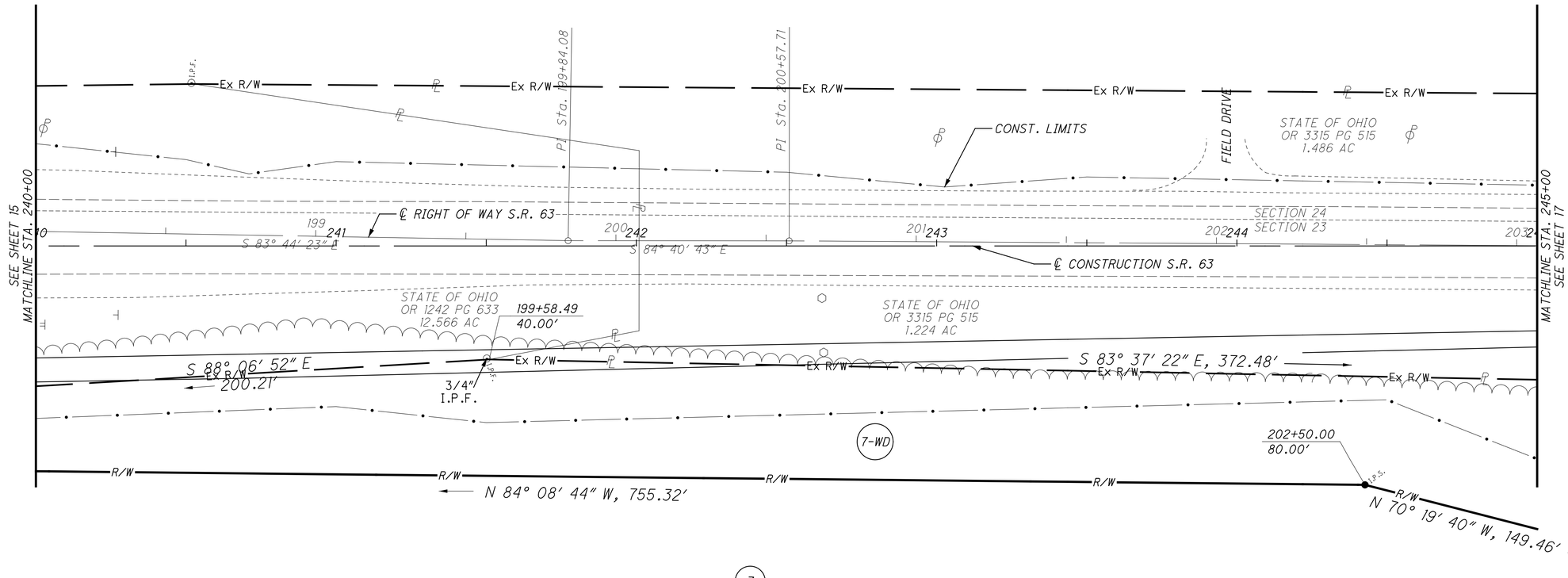
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WARREN_COUNTY
TURTLECREEK_TOWNSHIP
SECTION 24, T4, R3
SECTION 23, T4, R3

(6)

OTTERBEIN HOME
STATE ROUTE 741
LEBANON, OH
APN 1224200016



(7)

OTTERBEIN HOME
STATE ROUTE 741
LEBANON, OH 45036
APN 1223100030

W.H.H.	7/20/23	REVISED PAR. 7WD
REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

RIGHT OF WAY PLAN
STA. 240+00 TO STA. 245+00

WAR-63-0.83

16 / 24

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WARREN_COUNTY
TURTLECREEK_TOWNSHIP
SECTION 24, T4, R3
SECTION 23, T4, R3

6

OTTERBEIN HOME
STATE ROUTE 741
LEBANON, OH
APN 1224200016

205+33.74
-87.82'

204+73.70
-50.53'

206+60.59
-87.32'

END ACQUISITION
STA. 207+77.11

207+58.75
-81.09'

STATION CREEK

Ex R/W — ℄ — Ex R/W

3/4" I.P.F.

STATE OF OHIO
OR 3315 PG 515
1.486 AC

STATE OF OHIO
OR 2496 PG 431
0.613 AC

SEE SHEET 16
MATCHLINE STA. 245+00

℄ CONSTRUCTION S.R. 63

℄ RIGHT OF WAY S.R. 63

SECTION 24
SECTION 23

S 84° 21' 51" E

MATCHLINE STA. 250+00
SEE SHEET 18

S 83° 37' 22" E
372.48'

203+30.51
44.94'

203+63.16
61.43'

203+95.00
70.63'

203+96.48
71.05'

205+32.83
86.80'

206+32.14
86.70'

206+60.28
72.23'

206+92.95
59.00'

207+36.89
49.02'

207+77.11
49.16'

Q
R
S
T

7-WD

N 70° 19' 40" W, 149.46'

R/W ENVIRONMENTAL COVENANT LINE

203+95.00
116.25'

ENVIRONMENTAL COVENANT LINE

STATE OF OHIO
OR 3315 PG 515
1.224 AC

STATION CREEK

3/4" I.P.F.

3/4" PIPE
F.D. BENT

S 04° 06' 36" W

1223200014
MARTIN J. WOEBKENBERG
64.2112 AC
OR 1847 PG 937

7

OTTERBEIN HOME
STATE ROUTE 741
LEBANON, OH 45036
APN 1223100030

Q	S 57° 34' 04" E	36.58'
R	S 68° 15' 33" E	33.14'
S	S 68° 15' 33" E	1.54'
T	S 05° 38' 09" W	45.62'

PRESERVE AREA FOR
ENVIRONMENTAL COVENANT
17.800 ACRES
DOC. # 2018-030046

REV. BY	DATE	DESCRIPTION
W.H.H.	07/20/23	REV. PAR 7WD & ADD ENVIRO. COVENANT

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

RIGHT OF WAY PLAN
STA. 245+00 TO STA. 250+00

WAR-63-0.83

17 / 24

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WARREN_COUNTY
TURTLECREEK_TOWNSHIP
SECTION 24, T4, R3
SECTION 23, T4, R3

6

OTTERBEIN HOME
STATE ROUTE 741
LEBANON, OH
APN 1224200016

208+58.97
-64.73'

3/4" I.P.F.

209+16.58
-50.18'

3/4" I.P.F.
BENT

Ex R/W — Ex R/W — ℄ — Ex R/W

211+84.85
-49.76'

3/4" I.P.F.

212+50.45
-37.64'

3/4" I.P.F.

END PROJECT
STA. 255+00.00

℄ CONSTRUCTION S.R. 63

STATE OF OHIO
OR 3315 PG 515
1.486 AC

SEE SHEET 17
MATCHLINE STA. 250+00

250 251 252 253 254 255

SECTION 24
SECTION 23

℄ RIGHT OF WAY S.R. 63

STATE OF OHIO
OR 2496 PG 431
0.631 AC

DRIVEWAY
(CONCRETE)

212+50.46
22.36'

211+84.82
50.57'

3/4" I.P.F.

1223200014
MARTIN J. WOEBKENBERG
64.2112 AC
OR 1847 PG 937

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

RIGHT OF WAY PLAN
STA. 250+00 TO STA. 255+00

WAR-63-0.83

18 / 24

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WARREN_COUNTY
TURTLECREEK_TOWNSHIP
SECTION 23, T4, R3

BEGIN WORK

PC Sta. 227+90.53

℄ CONSTRUCTION
SR. 741

3/4" I.P.F.
IN BOX

℄ RW SR 741

STATE OF OHIO
OR 1242 PG 663
12.566 AC

903 904 905 906

228 229 230

MATCHLINE STA. 906+80
SEE SHEET 20

Ex R/W

Ex CH

℄

188+73.16 ℄ RW SR 63
623.10'

188+47.07 ℄ RW SR 63
726.08'

230+00.00 ℄ RW SR 741
120.00'

229+00.00 ℄ RW SR 741
118.00'

7

OTTERBEIN HOME
STATE ROUTE 741
LEBANON, OH 45036
APN 1223100030

SEE: WAR-63-2.92
FOR DETAILS OF
SR-741 CENTERLINE
RW AND EX CH

STATION CREEK

THE ESTATES OF
KEEVER CREEK
SECTION 1 PHASE 2A

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

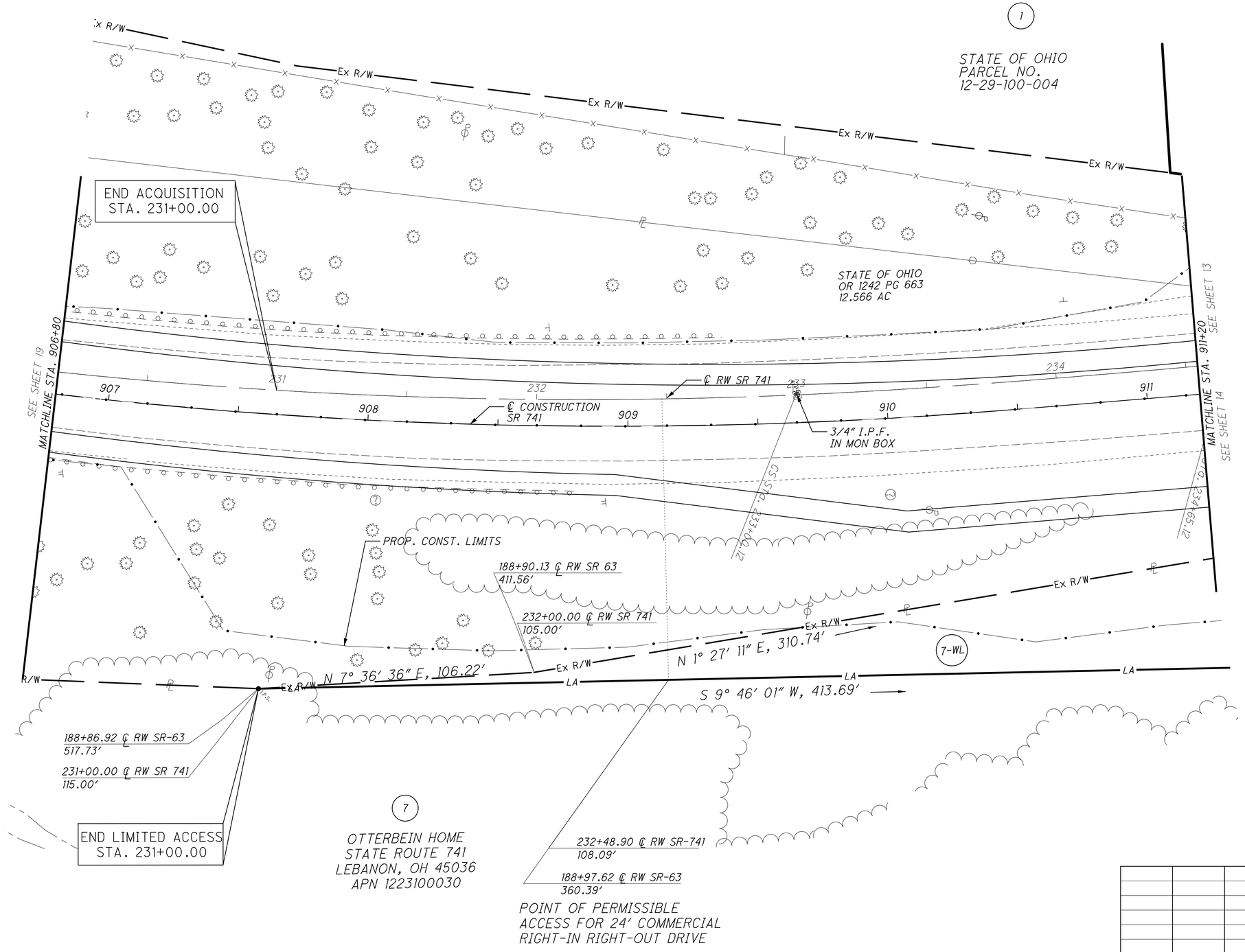
RIGHT OF WAY PLAN
STA. 903+00 TO 906+80.00

WAR-63-0.83

19 / 24

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WARREN_COUNTY
TURTLECREEK_TOWNSHIP
SECTION 23, T4, R3



REV. BY	DATE	DESCRIPTION

DATE COMPLETED

N

0 10 20 40
HORIZONTAL
SCALE IN FEET

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

RIGHT OF WAY PLAN
STA. 906+80.00 TO STA. 911+20.

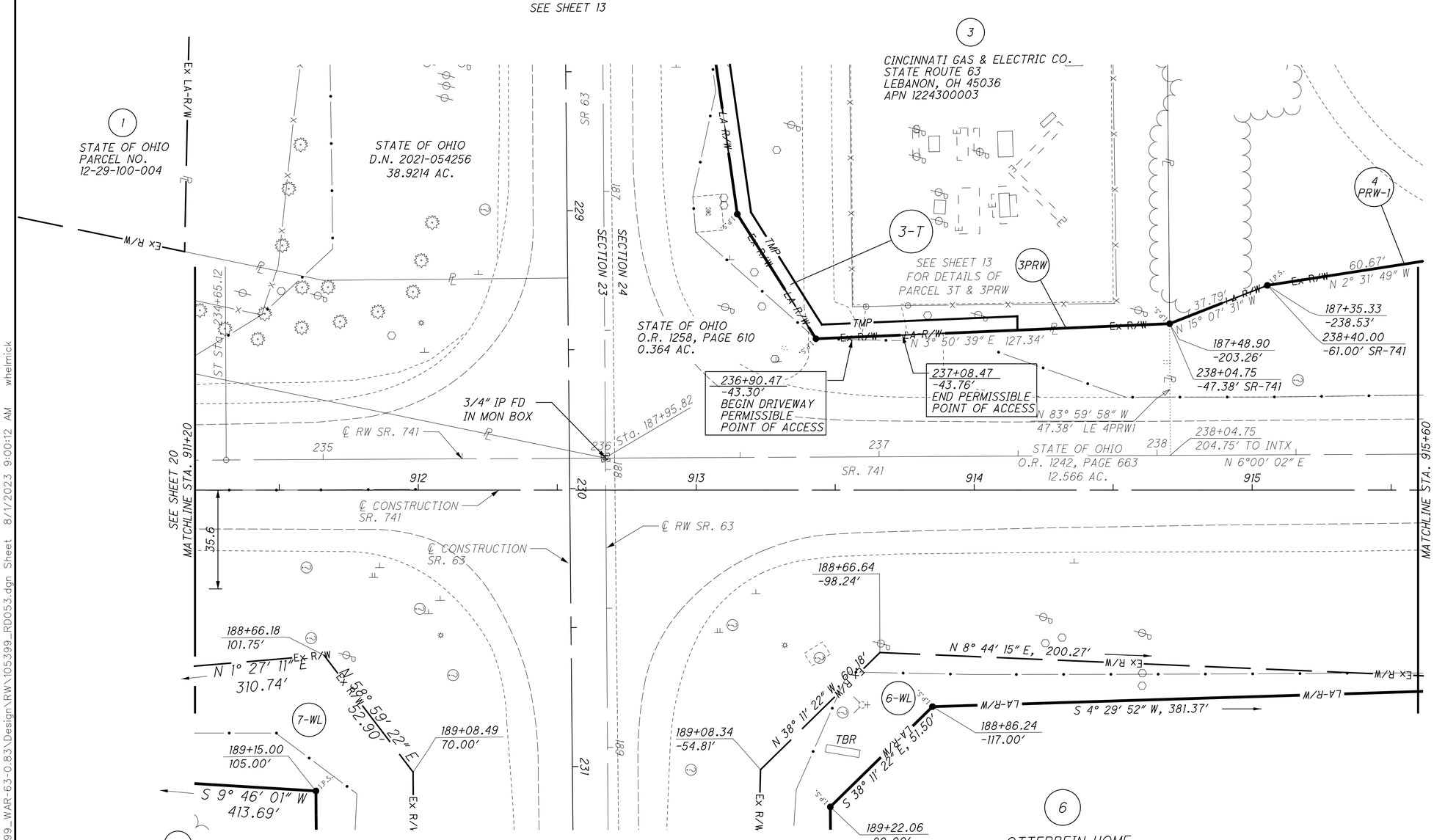
WAR-63-0.83

20/24

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WARREN_COUNTY
TURTLECREEK_TOWNSHIP
SECTION 24, T4, R3
SECTION 23, T4, R3

SEE SHEET 13



SEE SHEET 14

REV. BY	DATE	DESCRIPTION
WHH	08/01/23	REVISE PARCEL 6WL
WHH	01/12/23	CHANGED PERMISSIBLE POINT OF ACCESS
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

RIGHT OF WAY PLAN
STA. 911+20.00 TO STA. 915+60.0

WAR-63-0.83

21 / 24

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WARREN COUNTY
TURTLECREEK TOWNSHIP
SECTION 24, T 4, R 3

4

OTTERBEIN LEBANON LLC
STATE ROUTE 741
LEBANON, OH
APN 1230200007

4PRW-1

239+00.00
-70.00'

241+00.00
-70.00'

END
LIMITED ACCESS

Ex R/W

200.00'
LA R/W
N 6° 00' 02" E

LA R/W

100.03'
N 7° 25' 57" E

I.P.S.

Ex R/W

SEE SHEET 21
MATCHLINE STA. 915+60.00

239 240 241 242 243

℄ RW SR. 741

STATE OF OHIO
O.R. 1242, PAGE 663
12.566 AC.

N 6° 00' 02" E

916 917 918 919

℄ CONSTRUCTION
SR 741

MATCHLINE STA. 920+00.00
SEE SHEET 23

239+00.00
80.00'

LA-R/W

Ex R/W

N 06° 00' 02" E, 200.00'

S 4° 29' 52" W, 381.37'

241+00.00
80.00'

6WL

6

OTTERBEIN HOME
STATE ROUTE 741
LEBANON, OH
APN 1224200016

REV. BY	DATE	DESCRIPTION
W.H.H.	08/01/23	REVISE PARCELS 4PRW-1 AND 6WL
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

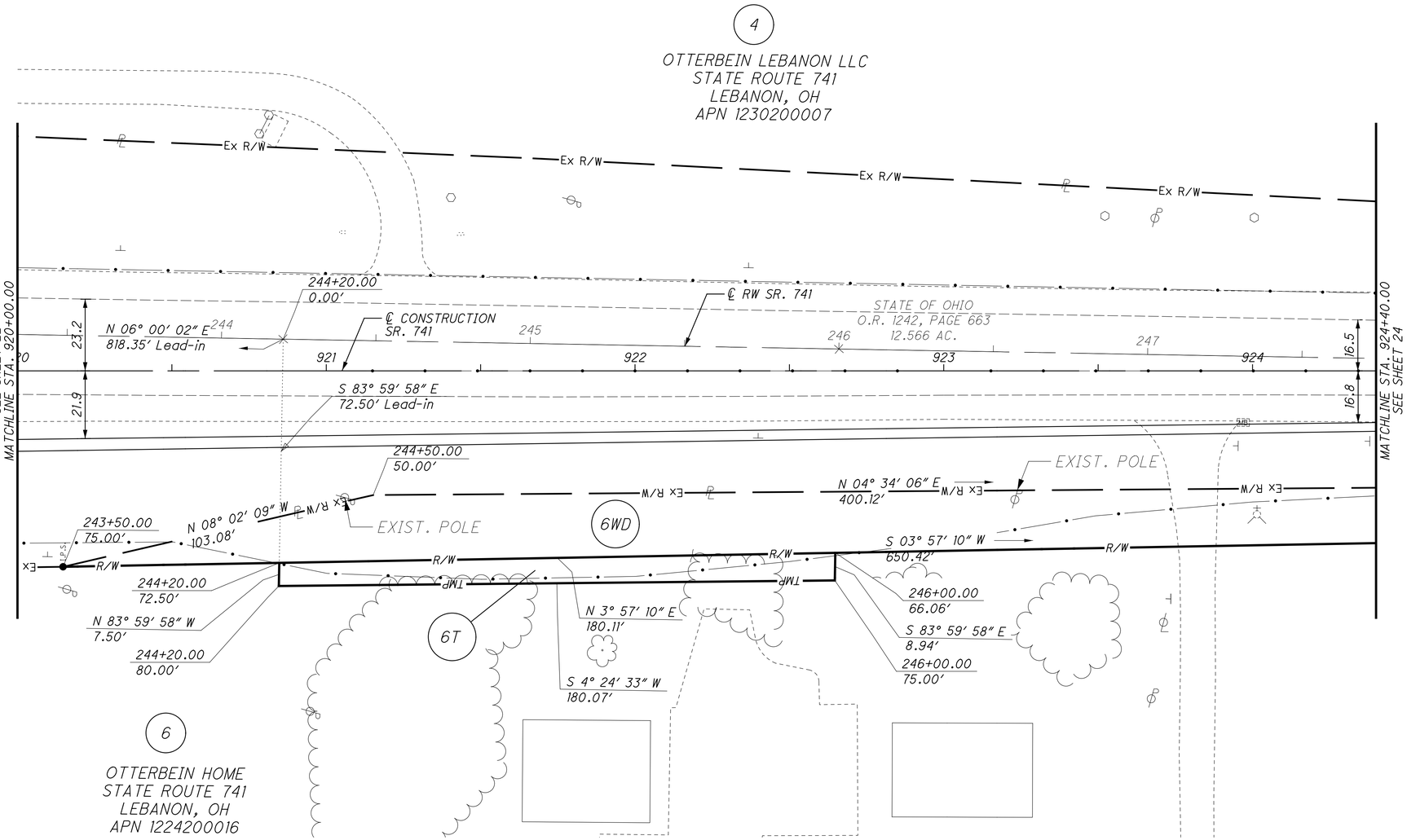
RIGHT OF WAY PLAN
STA. 915+60.00 TO STA. 920+00.

WAR-63-0.83

22 / 24

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WARREN COUNTY
TURTLECREEK TOWNSHIP
SECTION 24, T 4, R 3



REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

RIGHT OF WAY PLAN
STA. 920+00.00 TO STA. 924+40.00

WAR-63-0.83

23 / 24

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WARREN COUNTY
TURTLECREEK TOWNSHIP
SECTION 24, T 4, R 3

4

OTTERBEIN LEBANON LLC
STATE ROUTE 741
LEBANON, OH
APN 1230200007

248+00.00
-50.00'

249+57.21
-51.19'

249+57.15
-29.76'

POT Sta. 249+99.94

END ACQUISITION
STA. 249+99.94

END WORK
STA. 928+00

Ex R/W

249+99.94
0.00'
S 84° 07' 29" E
25.76' lead in

℄ RW SR. 741

STATE OF OHIO
O.R. 1242, PAGE 663
12.566 AC.

N 06°00' 02" E
1398.38' lead in

3/4" I.P.F. IN
MON. BOX

P.B. 99, PAGE 87

248
249
925
926
927
928

SEE SHEET 23
MATCHLINE STA. 924+40.00

℄ CONSTRUCTION SR. 741

10
10

248+50.00
40.00'

N 04° 34' 06" E
400.12'

N 00°34' 39" E
150.67'

3/4" I.P.F.

250+00.00
25.76'

S 84° 00' 34" E
26.00'

250+00.00
51.76'

S 03° 57' 10" W
650.42'

R/W

P.O.S.

OPEN SPACE LOT 1
UNION VILLAGE PHASE 1A
P.B. 100, PAGE 30

TIE TO EXIST.
STA. +65.98 10R

6WD

6
OTTERBEIN HOME
STATE ROUTE 741
LEBANON, OH
APN 1224200016

8
UNION VILLAGE
N STATE ROUTTE 741
LEBANON, OH

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 112121

R/W DESIGNER DE
R/W REVIEWER JT

RIGHT OF WAY PLAN
STA. 924+40.00 TO STA. 928+00.

WAR-63-0.83

24 / 24

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WARREN_COUNTY
TURTLECREEK_TOWNSHIP
WARREN COUNTY, STATE OF OHIO
SECTION 30 TOWNSHIP 4E-RANGE 3 N, B. T. M.
SECTION 29 TOWNSHIP 4E-RANGE 3 N, B .T. M.

DUKE ENERGY OHIO INC.
PARCEL ID 1230300004
DOC. # 2020-037921
0.594 ACRES

CINCINNATI GAS AND ELECTRIC COMPANY
PARCEL ID 1230300002
O.R. 4077, PAGE 623
3.400 ACRES

STATE OF OHIO
PARCEL ID 1236400007
DEED BK. 124, PG. 109
945.8707 ACRES

2

STATE OF OHIO
PARCEL ID 1236400007
DEED BK. 124, PG. 109
945.8707 ACRES

STA. 148+22.00 52.50' LT
CENTER OF 22' WIDE
POINT OF PERMISSIBLE
ACCESS

STA. 151+00 52.50' LT
CENTER OF 22' WIDE
POINT OF PERMISSIBLE
ACCESS

2WL

STA. 151+27.01
52.50 LT.

Ex LA — Ex LA — Ex LA-R/W — Ex LA-R/W

Sta. 147+95.23

Ex SH — Ex SH — LA — Ex SH — LA — Ex SH

S 84°17' 03"E 331.91'

26.90'

278.00'

27.01'

STA. 147+95.10
52.50 LT.

6" CONC.
MON. FD.

N05°35'00"E
52.50'

6" CONC.
MON. FD.

S05°28'49"W
52.50'

147 — SECTION 30 — 148 — 149 — 150 — 151 — 152
SECTION 29

N 84°17' 03"W 332.00'

STA. 147+95.23
0.00 RT.

STA. 151+27.23
0.00 RT.

P.O.B. BEGINNING AT A MONUMENT BOX AT THE INTERSECTION OF S.R.63 AND S.R.741 THENCE N 84°04'59"W 1437.33' TO A P.I. STA. 173+58.49 THENCE N 84°18'57"W 1454.72' TO P.I. STA. 159+03.77 THENCE N 84°17'03"W 776.54' TO THE TRUE PLACE OF BEGINNING.

STATE OF OHIO
DN 2021-054256
38.9214 ACRES

Ex LA-R/W — Ex LA-R/W — Ex LA-R/W — Ex LA-R/W — Ex LA-R/W — Ex LA-R/W

STATE OF OHIO
PARCEL ID 122910004
DEED BK. 124, PG. 109
945.8707 ACRES

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 112121

R/W DESIGNER WHH
R/W REVIEWER JCT

RIGHT OF WAY BOUNDARY SHEET
PAR-2LA

WAR-63-0.83

24A / 24A

0
0

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