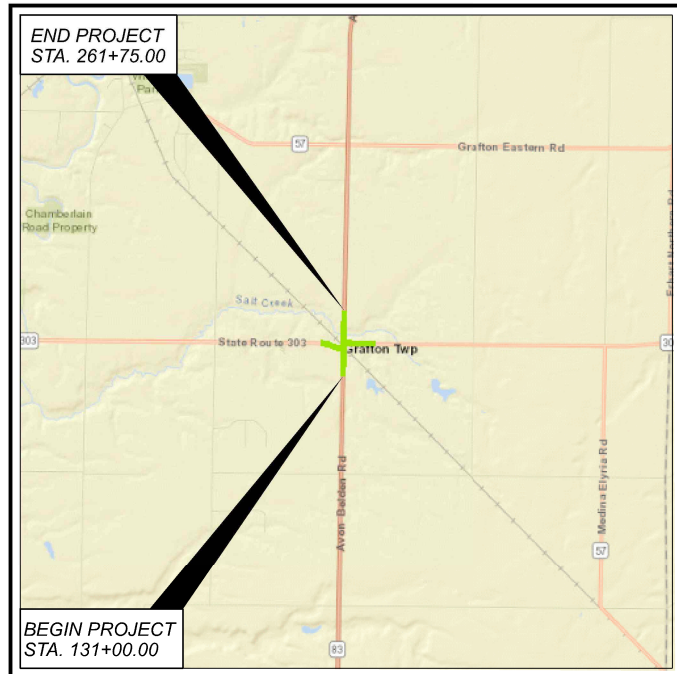


STATE OF OHIO DEPARTMENT OF TRANSPORTATION

LOR-83-2.48

GRAFTON TOWNSHIP

LORAIN COUNTY



LOCATION MAP

LATITUDE: N 41°14'14" LONGITUDE: W 82°01'23"



PORTION TO BE IMPROVED	-----	=====
INTERSTATE HIGHWAY	-----	=====
FEDERAL ROUTES	-----	=====
STATE ROUTES	-----	=====
COUNTY & TOWNSHIP ROADS	-----	=====
OTHER ROADS	-----	=====

DESIGN DESIGNATION

	<u>SR 83</u>	<u>SR 303</u>
CURRENT ADT (2022)	8,300	3,800
DESIGN YEAR ADT (2042)	9,350	4,050
DESIGN HOURLY VOLUME (2042)	920	305
DIRECTIONAL DISTRIBUTION	63%	57%
TRUCKS (24 HOUR B&C)	10%	10%
DESIGN SPEED	55 MPH	55 MPH
LEGAL SPEED	55 MPH	55 MPH

DESIGN FUNCTIONAL CLASSIFICATION:

SR 83/SR 57-04 MINOR ARTERIAL
SR 303-05 MAJOR COLLECTOR ROAD
NHS PROJECT ----- NO

DESIGN EXCEPTIONS

NONE REQUIRED

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:

AECOM

564 WHITE POND DRIVE AKRON, OHIO 44320-1100
(330) 836-9111

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ENGINEER'S SEAL:

SHEETS 1-112, 122-150

SIGNED: *Jason N. Ramler*
DATE: 09/27/21

ENGINEER'S SEAL:

SHEETS 113-121

SIGNED: *Kyle S. Compton-Troesch*
DATE: 09/27/21

STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS			
BP-2.2	01/15/21	CB-2-2B	07/16/21	HW-2.1	07/20/18	TC-41.20	10/18/13	HL-10.11	01/15/21	800	01/21/22	WWP	09/15/21
BP-3.1	01/17/20	CB-2-3	07/16/21	HW-2.2	07/20/18	TC-41.30	10/18/13	HL-10.12	01/20/17	813	10/19/18		
BP-4.1	07/19/13	CB-3	07/16/21			TC-42.10	10/18/13	HL-10.13	04/17/20	825	01/17/20		
BP-5.1	07/16/21	CB-3A	07/16/21			TC-42.20	10/18/13	HL-20.11	01/15/21	832	10/19/18		
		CB-6	07/16/21	MT-97.10	04/19/19	TC-52.10	10/18/13	HL-30.11	01/15/21	836	01/19/18		
MGS-1.1	07/16/21	CB-7	07/16/21	MT-101.60	01/17/20	TC-52.20	01/15/21	HL-30.21	04/17/20	878	04/16/21		
MGS-2.1	01/19/18	I-3D	07/16/21	MT-101.90	07/17/20	TC-61.30	07/19/19	HL-30.22	01/15/21	895	04/18/14		
MGS-4.2	07/19/13			MT-105.10	01/17/20	TC-65.10	01/17/14	HL-40.10	07/17/20	902	07/19/19		
MGS-4.3	01/18/13	MH-1.2	01/15/16			TC-65.11	07/21/17	HL-60.11	07/21/17	913	04/16/21		
						TC-71.10	07/16/21	HL-60.12	07/16/21	995	07/17/15		
RM-4.5	07/21/17	DM-1.1	07/17/20					HL-60.31	01/17/20				
		DM-1.2	07/16/21										
		DM-2.1	01/18/13										
		DM-4.2	07/20/12										
		DM-4.3	01/15/16										
		DM-4.4	01/15/16										

FEDERAL PROJECT NUMBER

E190 (522)

RAILROAD INVOLVEMENT

CSX TRANSPORTATION, INC.

PROJECT DESCRIPTION

IMPROVEMENTS WILL INCLUDE THE INSTALLATION OF TWO ROUNDABOUTS AT THE INTERSECTIONS OF SR 83/57 AND SR 303 RESULTING IN THE RECONSTRUCTION OF 0.20 MILES OF SR 83 AND THE CONSTRUCTION OF CURB, DRAINAGE, LIGHTING AND NEW SIGNING AND PAVEMENT MARKINGS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	4.43 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.58 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	5.01 ACRES

2019 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 REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET P.18 .

APPROVED _____
DATE _____ DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

DESIGN AGENCY

AECOM

DESIGNER
CKJ

REVIEWER
JES 11-16-20

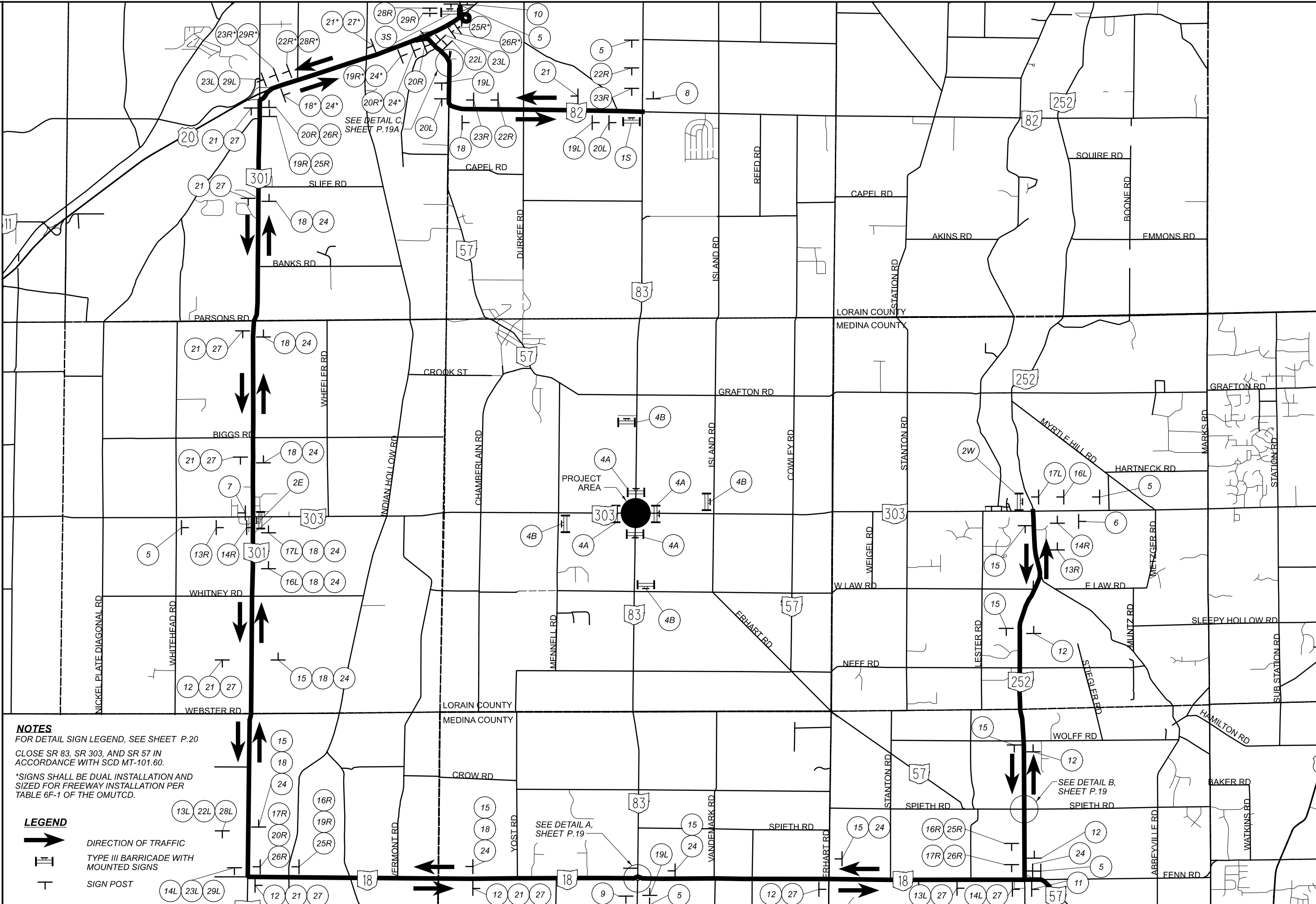
PROJECT ID
109455

SHEET	TOTAL
P.1	P.163

LOR-83-2.48

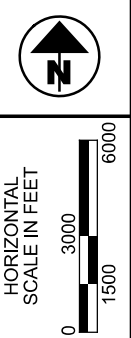
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p:\aecom-na-pw-bentley.com\AECOM\DS16_NA\Documents\60608709-LOR-83-255\100-Engineering\Roadway\Sheets\109455_G1001.dgn

LOR-83-2.48 (PID 109455)



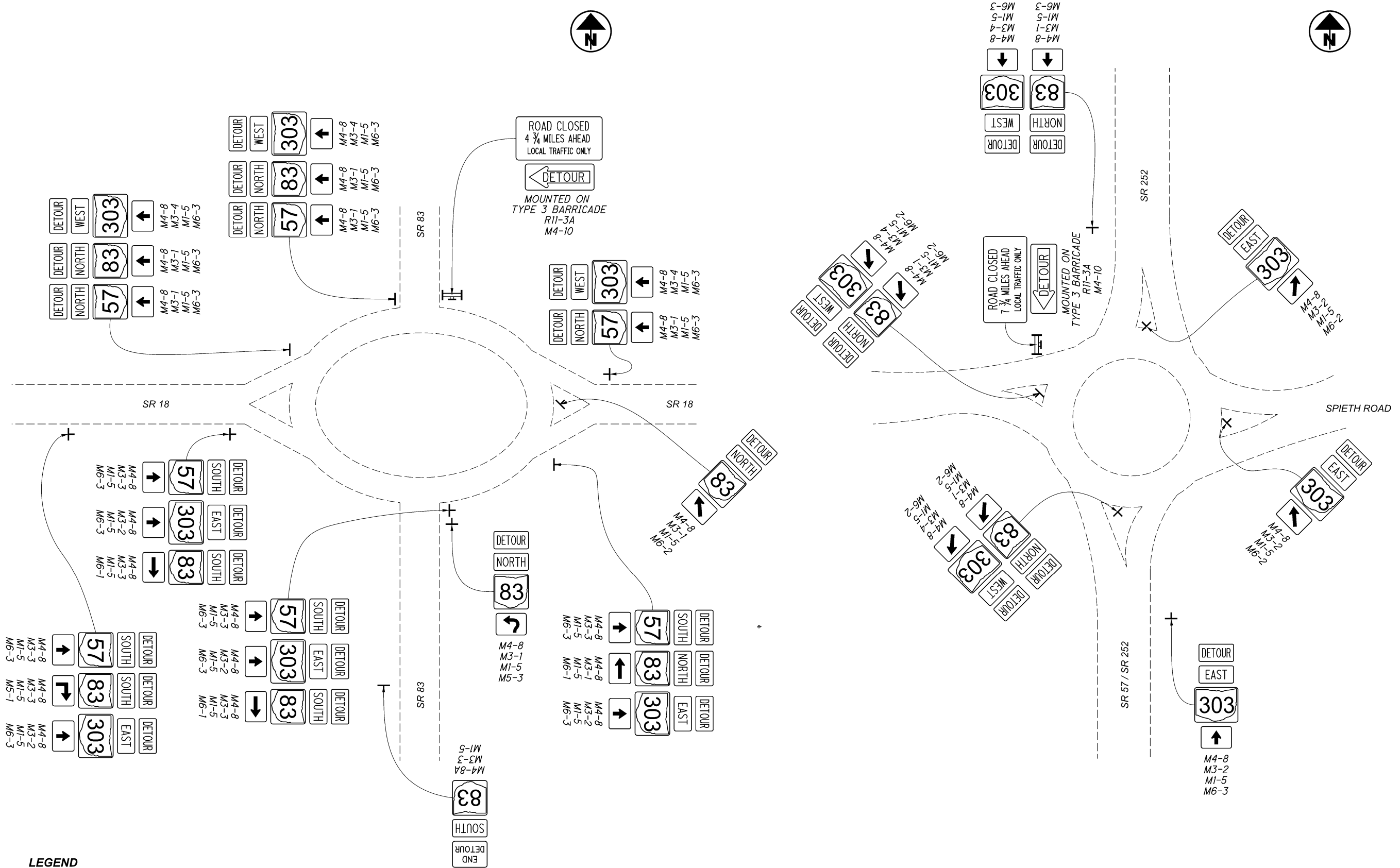
NOTES
 FOR DETAIL SIGN LEGEND, SEE SHEET P.20
 CLOSE SR 83, SR 303, AND SR 57 IN ACCORDANCE WITH SCD MT-101.60.
 *SIGNS SHALL BE DUAL INSTALLATION AND SIZED FOR FREEWAY INSTALLATION PER TABLE 6F-1 OF THE OMUTCD.

LEGEND
 DIRECTION OF TRAFFIC
 TYPE III BARRICADE WITH MOUNTED SIGNS
 SIGN POST



**MAINTENANCE OF TRAFFIC
 DETOUR ROUTES**

DESIGN AGENCY	AECOM
DESIGNER	CFA
REVIEWER	JES 11-16-20
PROJECT ID	109455
SHEET	P.18
TOTAL	P.163



DETAIL A
SR 83 AND SR 18 INTERSECTION

DETAIL B
SR 252 AND SR 57 INTERSECTION

NOTE: COVER ALL CONFLICTING SIGNS

MAINTENANCE OF TRAFFIC
ROUNDABOUT SIGNAGE

DESIGN AGENCY

AECOM

DESIGNER

STO

REVIEWER

JES 11-16-20

PROJECT ID

109455

SHEET TOTAL

P.19 P.163

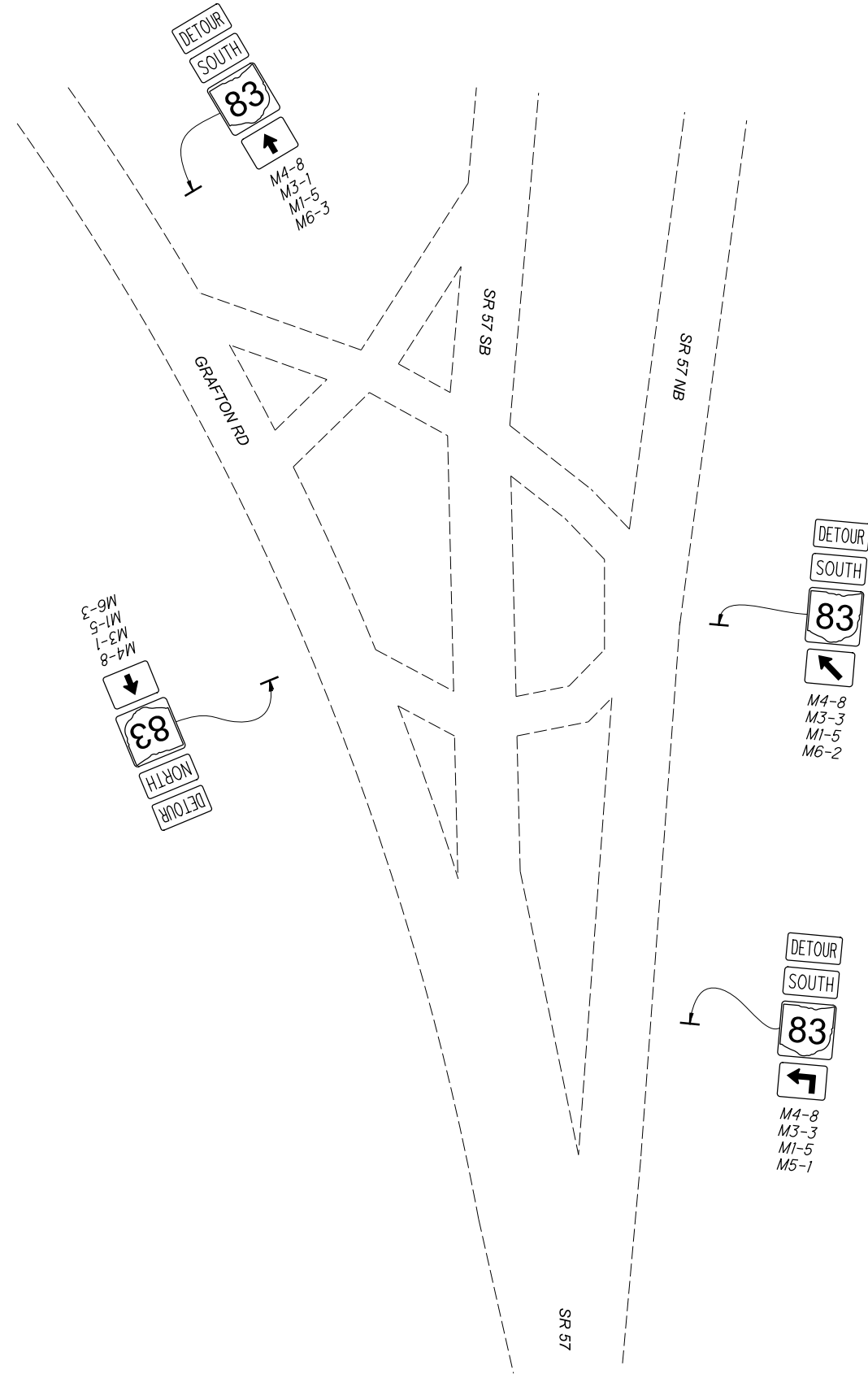
LEGEND



TYPE III BARRICADE WITH MOUNTED SIGNS



SIGN POST



DETAIL C
SR 57 AND GRAFTON RD INTERSECTION

NOTE: COVER ALL CONFLICTING SIGNS



**MAINTENANCE OF TRAFFIC
ROUNDABOUT SIGNAGE**

DESIGN AGENCY



DESIGNER
STO

REVIEWER
JES 11-16-20

PROJECT ID
109455

SHEET	TOTAL
P.19A	P.163

1N
ROAD CLOSED
4 3/4 MILES AHEAD
LOCAL TRAFFIC ONLY

MOUNTED ON
TYPE 3 BARRICADE
R11-3A
M4-10

1S
ROAD CLOSED
5 1/4 MILES AHEAD
LOCAL TRAFFIC ONLY

MOUNTED ON
TYPE 3 BARRICADE
R11-3A
M4-10

2E
ROAD CLOSED
5 MILES AHEAD
LOCAL TRAFFIC ONLY

MOUNTED ON
TYPE 3 BARRICADE
R11-3A
M4-10

2W
ROAD CLOSED
5 1/4 MILES AHEAD
LOCAL TRAFFIC ONLY

MOUNTED ON
TYPE 3 BARRICADE
R11-3A
M4-10

3N
ROAD CLOSED
7 3/4 MILES AHEAD
LOCAL TRAFFIC ONLY

MOUNTED ON
TYPE 3 BARRICADE
R11-3A
M4-10

3S
ROAD CLOSED
8 1/4 MILES AHEAD
LOCAL TRAFFIC ONLY

MOUNTED ON
TYPE 3 BARRICADE
R11-3A
M4-10

4A
ROAD
CLOSED

MOUNTED ON
TYPE 3 BARRICADE
R11-2

4B
ROAD CLOSED
LOCAL TRAFFIC ONLY

MOUNTED ON
TYPE 3 BARRICADE
R11-3

5
DETOUR
AHEAD

W20-2

6
END
DETOUR

EAST

M4-8A
M3-2
M1-5

7
END
DETOUR

WEST

M4-8A
M3-4
M1-5

12
DETOUR

EAST

↑

M4-8
M3-2
M1-5
M6-3

13L
DETOUR

EAST

↶

M4-8
M3-2
M1-5
M5-1

13R
DETOUR

EAST

↷

M4-8
M3-2
M1-5
M5-1

14L
DETOUR

EAST

←

M4-8
M3-2
M1-5
M6-1

14R
DETOUR

EAST

→

M4-8
M3-2
M1-5
M6-1

15
DETOUR

WEST

↑

M4-8
M3-4
M1-5
M6-3

16L
DETOUR

WEST

↶

M4-8
M3-4
M1-5
M5-1

16R
DETOUR

WEST

↷

M4-8
M3-4
M1-5
M5-1

17L
DETOUR

WEST

←

M4-8
M3-4
M1-5
M6-1

17R
DETOUR

WEST

→

M4-8
M3-4
M1-5
M6-1

8
END
DETOUR

NORTH

M4-8A
M3-1
M1-5

9
END
DETOUR

SOUTH

M4-8A
M3-3
M1-5

18
DETOUR

NORTH

↑

M4-8
M3-1
M1-5
M6-3

19L
DETOUR

NORTH

↶

M4-8
M3-1
M1-5
M5-1

19R
DETOUR

NORTH

↷ ↸

M4-8
M3-1
M1-5
M5-1 OR M5-2 *

20L
DETOUR

NORTH

←

M4-8
M3-1
M1-5
M6-1

20R
DETOUR

NORTH

→ ↗

M4-8
M3-1
M1-5
M6-1 OR M6-2 *

21
DETOUR

SOUTH

↑

M4-8
M3-3
M1-5
M6-3

22L
DETOUR

SOUTH

↶

M4-8
M3-3
M1-5
M5-1

22R
DETOUR

SOUTH

↷ ↸

M4-8
M3-3
M1-5
M5-1 OR M5-2 *

23L
DETOUR

SOUTH

←

M4-8
M3-3
M1-5
M6-1

23R
DETOUR

SOUTH

→ ↗

M4-8
M3-3
M1-5
M6-1 OR M6-2 *

10
END
DETOUR

NORTH

M4-8A
M3-1
M1-5

11
END
DETOUR

SOUTH

M4-8A
M3-3
M1-5

24
DETOUR

NORTH

↑

M4-8
M3-1
M1-5
M6-3

25L
DETOUR

NORTH

↶

M4-8
M3-1
M1-5
M5-1

25R
DETOUR

NORTH

↷ ↸

M4-8
M3-1
M1-5
M5-1 OR M5-2 *

26L
DETOUR

NORTH

←

M4-8
M3-1
M1-5
M6-1

26R
DETOUR

NORTH

→ ↗

M4-8
M3-1
M1-5
M6-1 OR M6-2 *

27
DETOUR

SOUTH

↑

M4-8
M3-3
M1-5
M6-3

28L
DETOUR

SOUTH

↶

M4-8
M3-3
M1-5
M5-1

28R
DETOUR

SOUTH

↷ ↸

M4-8
M3-3
M1-5
M5-1 OR M5-2 *

29L
DETOUR

SOUTH

←

M4-8
M3-3
M1-5
M6-1

29R
DETOUR

SOUTH

→ ↗

M4-8
M3-3
M1-5
M6-1 OR M6-2 *

*SIGNS M5-2 AND M6-2 SHALL BE USED INSTEAD OF M5-1 AND M6-1 AT US 20 EXIT RAMPS.

LOR-83-2.48

MODEL: Sheet 2 PAPER: 2 PAPER SIZE: Txl (in.) DATE: 4/4/2022 TIME: 2:58:09 PM USER: michael.j.thompson
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SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
	P.125		P.137	P.140		P.147		P.150			01/SAF/OT	02/STR/OT						
WATER WORK																		
	419											419	638	06600	419	FT	14" STEEL PIPE ENCASEMENT, OPEN CUT	
	1,137											1,137	SPECIAL	63820420	1,137	FT	8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS (RLCWA), BACKFILL METHOD A OR B	
	34											34	SPECIAL	63820420	34	FT	8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS (RLCWA), BACKFILL METHOD C	
	1											1	SPECIAL	63820746	1	EACH	2" AIR RELEASE VALVE WITH VALVE BOX (RLCWA)	
	536											536	638	98600	536	FT	WATER WORK, MISC.: 8" WATER MAIN PVC PIPE WITH IPS RESTRAINED JOINTS (RLCWA)	
	70											70	638	98600	70	FT	WATER WORK, MISC.: 6" WATER MAIN TO BE ABANDONED AND FILLED WITH GROUT	
LIGHTING																		
							32					32	625	00450	32	EACH	CONNECTION, FUSED PULL APART	
							15					15	625	00480	15	EACH	CONNECTION, UNFUSED PERMANENT	
							1					1	625	10490	1	EACH	LIGHT POLE, CONVENTIONAL, AT6B40	
							11					11	625	10490	11	EACH	LIGHT POLE, CONVENTIONAL, AT8B40	
							3					3	625	10490	3	EACH	LIGHT POLE, CONVENTIONAL, AT12B40	
							1					1	625	10490	1	EACH	LIGHT POLE, CONVENTIONAL, AT18B40	
							16					16	625	14100	16	EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP	
							4,971					4,971	625	23302	4,971	FT	NO. 6 AWG 2400 VOLT DISTRIBUTION CABLE	
							1,576					1,576	625	23400	1,576	FT	NO. 10 AWG POLE AND BRACKET CABLE	
							1,361					1,361	625	25300	1,361	FT	CONDUIT, 1-1/2", 725.04	
							18					18	625	25500	18	FT	CONDUIT, 3", 725.04	
							488					488	625	25902	488	FT	CONDUIT, JACKED OR DRILLED, 725.04, 3"	
							16					16	625	26253	16	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, 240 VOLT	P.146
							1,379					1,379	625	29000	1,379	FT	TRENCH	
							3					3	625	30700	3	EACH	PULL BOX, 725.08, 18"	
							5					5	625	30706	5	EACH	PULL BOX, 725.08, 24"	
							16					16	625	32000	16	EACH	GROUND ROD	
							1					1	625	34001	1	EACH	POWER SERVICE, AS PER PLAN	P.146
							1,379					1,379	625	36010	1,379	FT	UNDERGROUND WARNING/MARKING TAPE	
							1					1	625	75401	1	EACH	LIGHT POLE REMOVED, AS PER PLAN	P.148
							1					1	625	75500	1	EACH	LIGHT POLE FOUNDATION REMOVED	
							1					1	625	75506	1	EACH	LUMINAIRE REMOVED	
							2					2	625	75800	2	EACH	DISCONNECT CIRCUIT	
							1					1	625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL (SR 83/SR 303)	
TRAFFIC CONTROL																		
							134					134	621	00100	134	EACH	RPM	
							45					45	621	54000	45	EACH	RAISED PAVEMENT MARKER REMOVED	
					1,161							1,161	630	03100	1,161	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
					12							12	630	08600	12	EACH	SIGN POST REFLECTOR	
					610.2							610.2	630	80100	610.2	SF	SIGN, FLAT SHEET	
					80							80	630	84900	80	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
					2							2	630	85100	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
					45							45	630	86002	45	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
					0.3							0.3	644	00300	0.3	MILE	CENTER LINE	
					0.69							0.69	644	00104	0.69	MILE	EDGE LINE, 6"	
					255							255	644	00700	255	FT	TRANSVERSE/DIAGONAL LINE	
					174							174	644	01510	174	FT	DOTTED LINE, 6"	
					96							96	644	20800	96	FT	YIELD LINE	
LANDSCAPING																		
								16				16	661	19000	16	EACH	DECIDUOUS SHRUB, 12" HEIGHT, POTENTILLA FRUITICOSA	
								16				16	661	19000	16	EACH	DECIDUOUS SHRUB, 12" HEIGHT, SPIREA ABLIFLORA	
								18				18	661	50100	18	EACH	EVERGREEN TREE, 5' HEIGHT, JUNIPERUS CHINESIS "IOWA"	
								4				4	662	30000	4	MGAL	LANDSCAPE WATERING	
								568				568	SPECIAL	69012000	568	SY	FILTER FABRIC	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

JNR

REVIEWER

JES 11-16-20

PROJECT ID

109455

SHEET TOTAL

P.23 P.163

LOR-83-2.48

MODEL: Sheet 3 PAPER: SIZE: Txxl (in.) DATE: 4/4/2022 TIME: 3:44:35 PM USER: michael.l.thompson
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SHEET NUM.										PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
		P.15	P.16			P.115				01/SAF/OT	02/STR/OT							
																	RETAINING WALLS	
						LS				LS		503	11101	LS			COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	P.115
						596				596		503	21100	596	CY		UNCLASSIFIED EXCAVATION	
						76				76		503	31101	76	CY		ROCK EXCAVATION, AS PER PLAN	P.115
						19,608				19,608		509	10000	19,608	LB		EPOXY COATED REINFORCING STEEL	
						175				175		511	46212	175	CY		CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL INCLUDING FOOTING	
						159				159		512	10050	159	SY		SEALING OF CONCRETE SURFACES (NON-EPOXY)	
						20				20		512	33000	20	SY		TYPE 2 WATERPROOFING	
						123				123		516	13200	123	SF		1/2" PREFORMED EXPANSION JOINT FILLER	
						49				49		516	13600	49	SF		1" PREFORMED EXPANSION JOINT FILLER	
						138				138		518	21200	138	CY		POROUS BACKFILL WITH GEOTEXTILE FABRIC	
						251				251		518	40000	251	FT		6" PERFORATED CORRUGATED PLASTIC PIPE	
						51				51		613	41201	51	CY		LOW STRENGTH MORTAR BACKFILL, AS PER PLAN	P.115
																	MAINTENANCE OF TRAFFIC	
		230								230		410	12000	230	CY		TRAFFIC COMPACTED SURFACE, TYPE A OR B	
		600								600		410	13000	600	CY		TRAFFIC COMPACTED SURFACE, TYPE C	
			80							80		614	11110	80	HOUR		LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
										LS		614	12420	LS			DETOUR SIGNING	
		50								50		614	13000	50	CY		ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
			8							8		614	18601	8	SNMT		PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	P.16
		1								1		614	40050	1	EACH		BUSINESS ENTRANCE SIGN	
										LS		615	10001	LS			ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN	P.16
		47								47		616	10000	47	MGAL		WATER	
																	INCIDENTALS	
										LS		108	30000	LS			CPM PROGRESS SCHEDULE SHORT DURATION PROJECTS	
										LS		614	11000	LS			MAINTAINING TRAFFIC	
										7		619	16010	7	MNTH		FIELD OFFICE, TYPE B	
										LS		623	10000	LS			CONSTRUCTION LAYOUT STAKES AND SURVEYING	
										LS		624	10000	LS			MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY

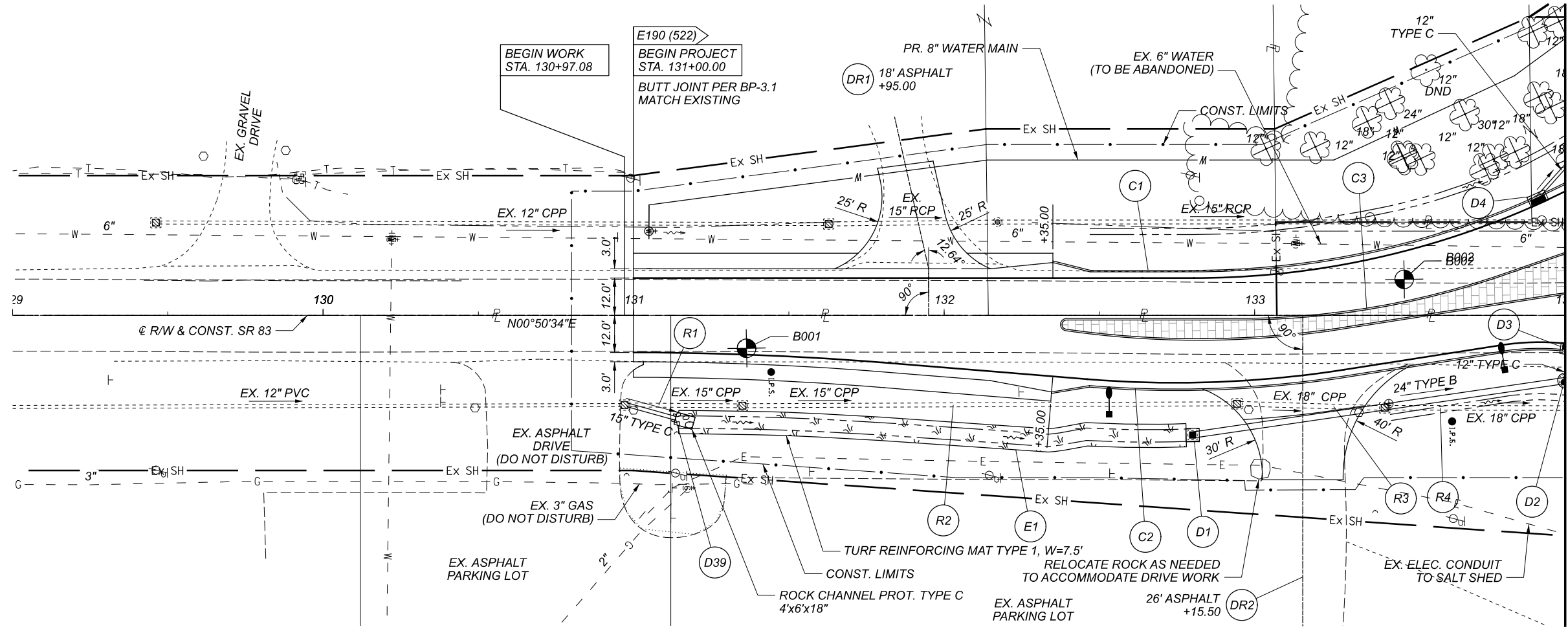


DESIGNER
JNR

REVIEWER
JES 11-16-20

PROJECT ID
109455

SHEET TOTAL
P.24 P.163



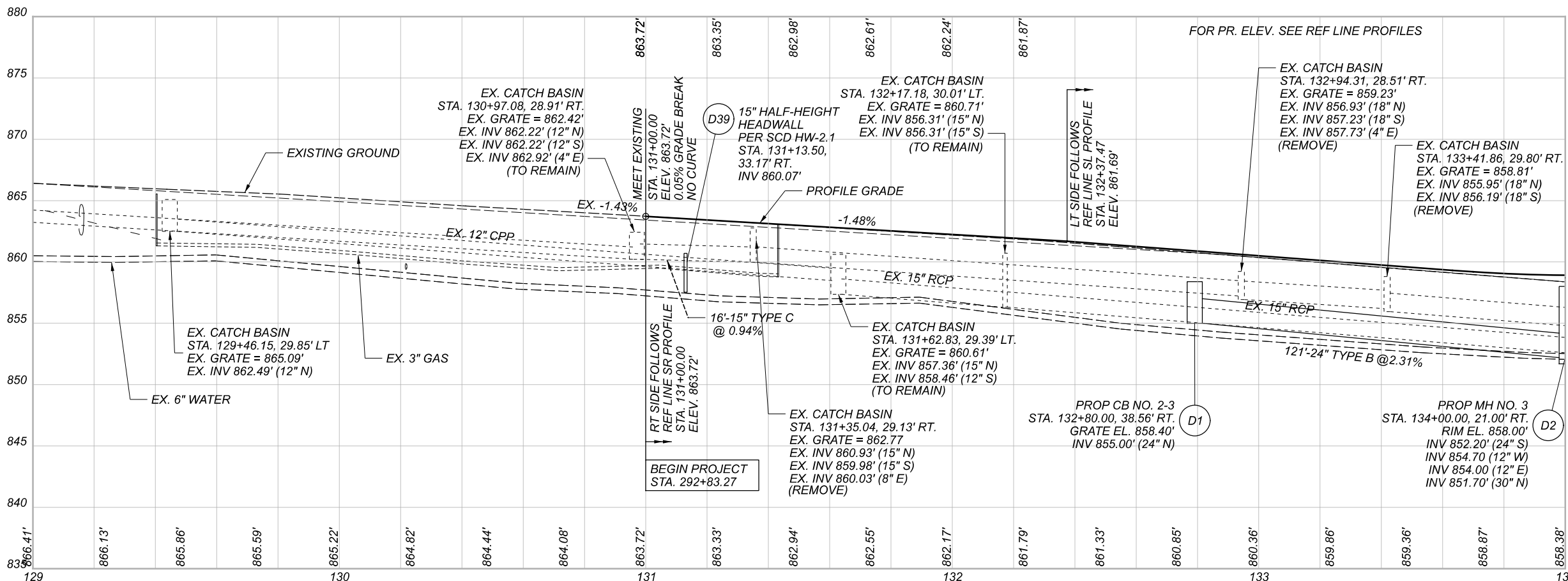
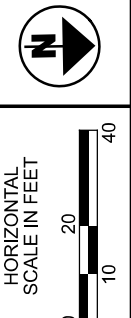
NOTES

- FOR ROUNDABOUT GEOMETRICS AND REFERENCE LINE DATA, SEE SHEETS P.3 - P.4
- FOR ROUNDABOUT PROFILES, SEE SHEETS P.74 - P.80
- FOR SR 83 CROSS SECTIONS, SEE SHEETS P.36 - P.56
- FOR PAVEMENT DETAILS, SEE SHEET P.90
- FOR SPLITTER ISLAND DETAILS, SEE SHEET P.97
- FOR CURB TRANSITION DETAILS, SEE SHEET P.101
- FOR ESTIMATED QUANTITIES, SEE SHEET P.25 - P.28

LEGEND

- ITEM 462 - NON-REINFORCED CONCRETE PAVEMENT, MISC. : 7" CONCRETE STAMPED AND STAINED (SEE DETAILS ON SHEET P.11)
- TURF REINFORCING MAT, TYPE 1, W = 7.5'
- PROPOSED LIGHT POLE SEE LIGHTING PLANS

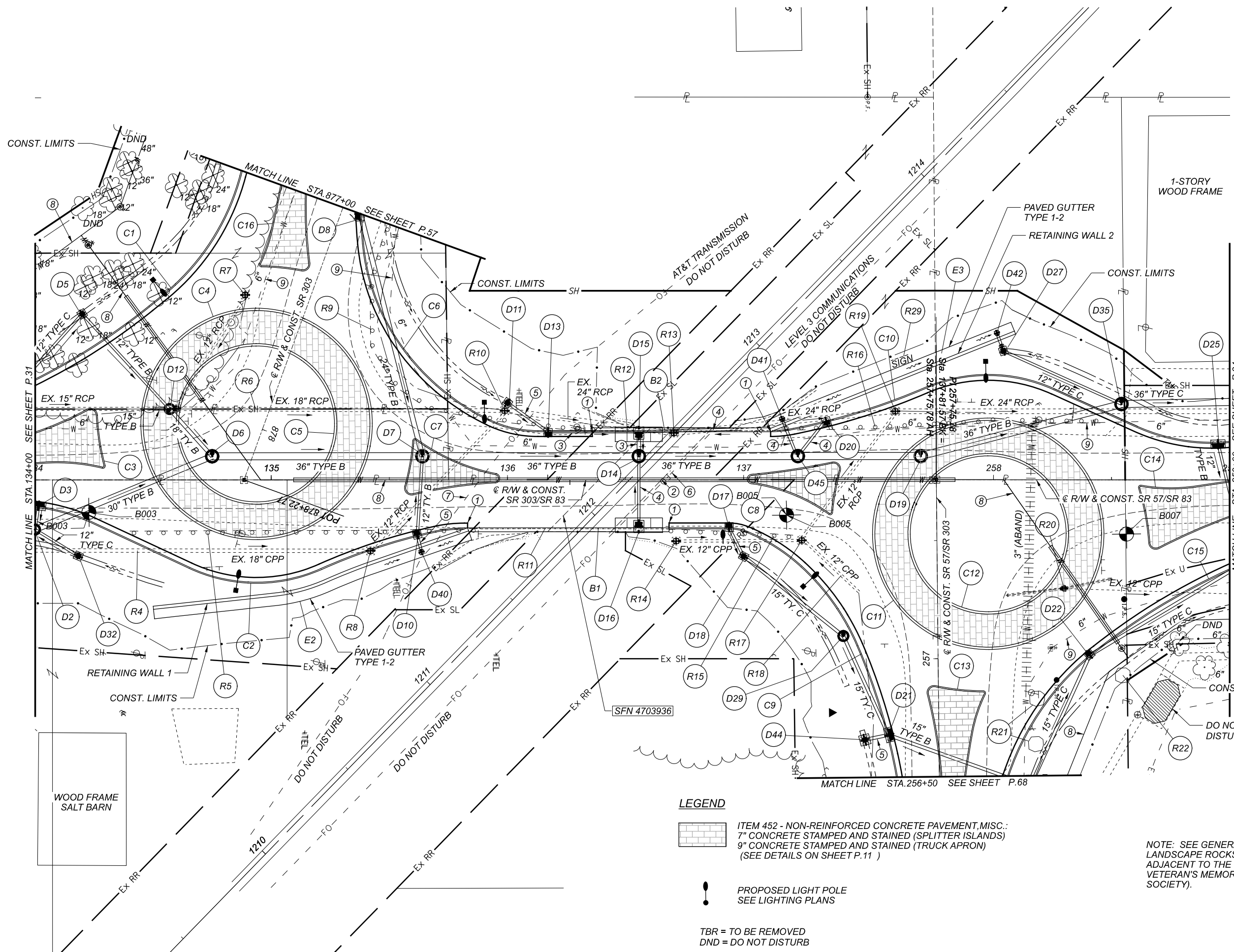
TBR = TO BE REMOVED
 DND = DO NOT DISTURB



PLAN AND PROFILE - SR 83
 BEGINNING TO STA. 134+00



DESIGN AGENCY	
DESIGNER	MJT
REVIEWER	JES 01/10/20
PROJECT ID	109455
SHEET	TOTAL
P.31	P.163



NOTES

- FOR ROUNDABOUT GEOMETRICS AND REFERENCE LINE DATA, SEE SHEETS P.3 - P.4
- FOR ROUNDABOUT PROFILES, SEE SHEETS P.74 - P.80
- FOR SR 83 AND SR 57 CROSS SECTIONS, SEE SHEETS P.36 - P.56
- FOR RETAINING WALL DETAILS, SEE SHEETS P.113 - P.120
- FOR PAVEMENT DETAILS, SEE SHEETS P.91 - P.92
- FOR SPLITTER ISLAND DETAILS, SEE SHEETS P.97 - P.100
- FOR ESTIMATED QUANTITIES, SEE SHEETS P.25 - P.28

① SUSPEND NEW CONCRETE CURB AND GUTTER. FACE OF CURB TO MATCH FACE OF BARRIER.

STA. 135+83.15 RT.
STA. 136+35.93 LT.

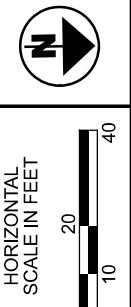
RESUME NEW CONCRETE CURB AND GUTTER. FACE OF CURB TO MATCH FACE OF BARRIER.

STA. 136+68.42 RT.
STA. 137+11.43 LT.

② POINT OF MINIMUM VERTICAL CLEARANCE:

STA. 136+65.22, 0' RT.

- ③ 18" TYPE B
- ④ 12" TYPE B
- ⑤ 12" TYPE C
- ⑥ LEVEL 3 FIBER OPTIC ON BRIDGE
- ⑦ AT&T BURIED FIBER OPTIC (SEE GENERAL NOTES FOR DEPTH INFORMATION)
- ⑧ PR. 8" WATER MAIN (SEE WATER WORK PLANS)
- ⑨ EX. 6" WATER MAIN (TO BE ABANDONED)



**PLAN - SR 83 AND SR 57
STA. 134+00 TO STA. 259+00**

LEGEND

- ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, MISC.:
7" CONCRETE STAMPED AND STAINED (SPLITTER ISLANDS)
9" CONCRETE STAMPED AND STAINED (TRUCK APRON)
(SEE DETAILS ON SHEET P.11)

PROPOSED LIGHT POLE
SEE LIGHTING PLANS

TBR = TO BE REMOVED
DND = DO NOT DISTURB

NOTE: SEE GENERAL NOTES FOR REMOVAL OF LANDSCAPE ROCKS WITHIN THE RIGHT OF WAY ADJACENT TO THE GRAFTON TOWNSHIP VETERAN'S MEMORIAL PARK (BELDEN HISTORICAL SOCIETY).

DESIGN AGENCY



DESIGNER
MJT

REVIEWER

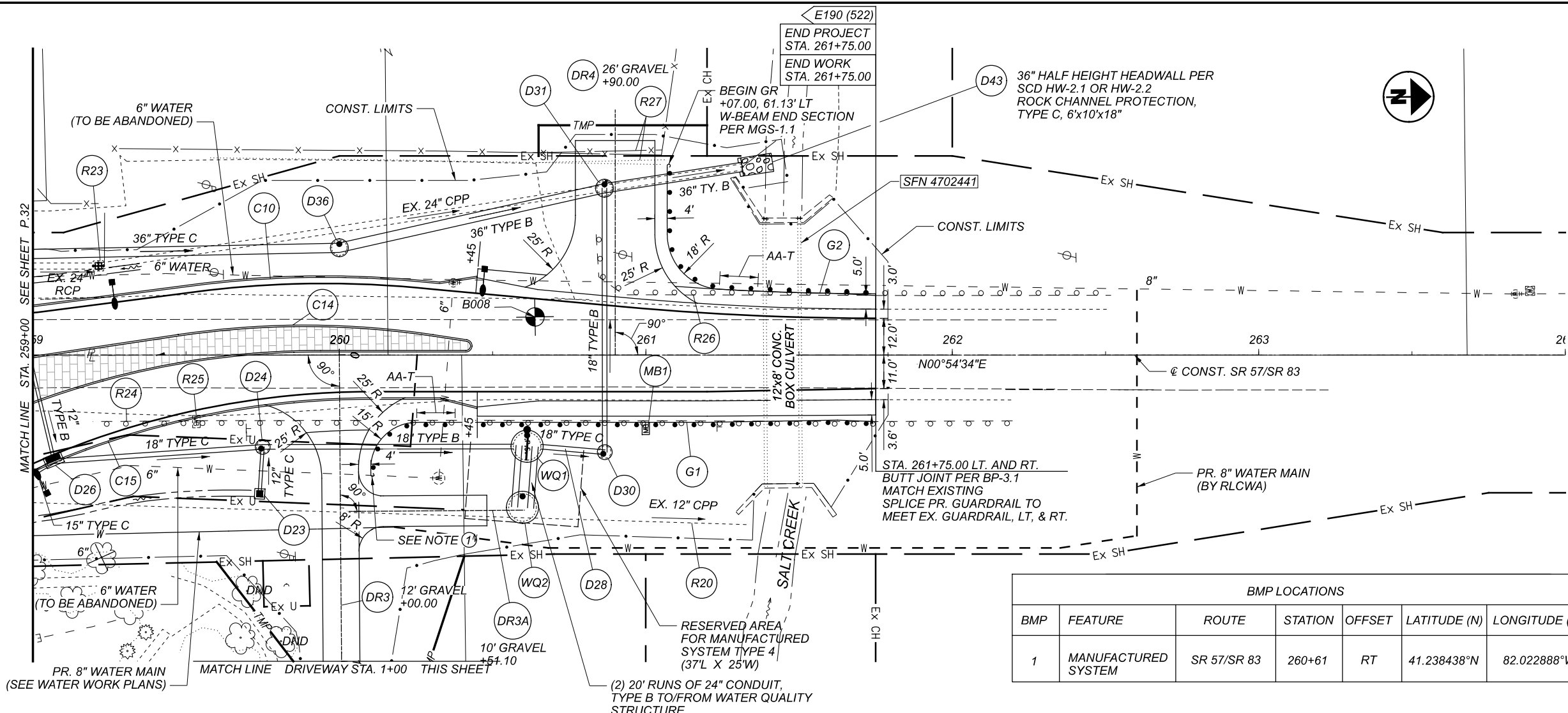
JES 11-16-20

PROJECT ID

109455

SHEET TOTAL

P.32 | P.163



NOTES

FOR ROUNDABOUT GEOMETRICS AND REFERENCE LINE DATA, SEE SHEETS P.3 - P.4

FOR ROUNDABOUT PROFILES, SEE SHEETS P.74 - P.80

FOR SR 83 CROSS SECTIONS, SEE SHEETS P.36 - P.56

FOR PAVEMENT DETAILS, SEE SHEET P.93

FOR SPLITTER ISLAND DETAILS, SEE SHEET P.100

FOR CURB TRANSITION DETAILS, SEE SHEET P.101

FOR ESTIMATED QUANTITIES, SEE SHEETS P.25 - P.28

① BEGIN GR +10.28, 38.51' RT W-BEAM END SECTION PER MGS-1.1

LEGEND

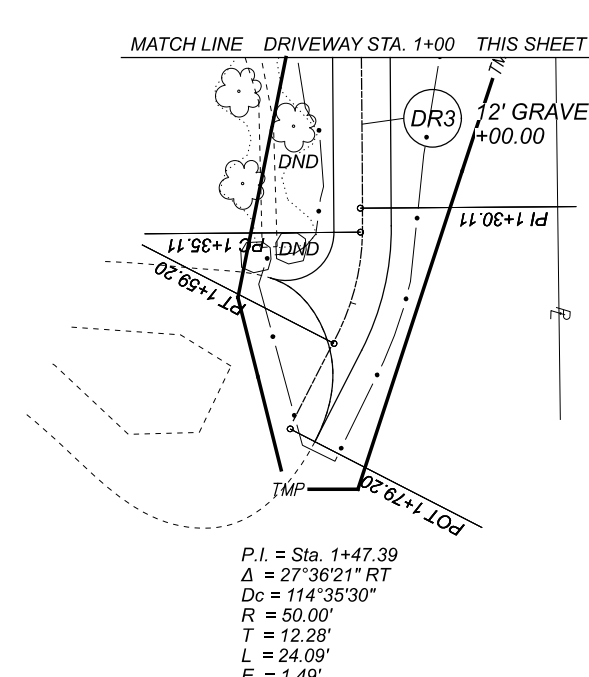
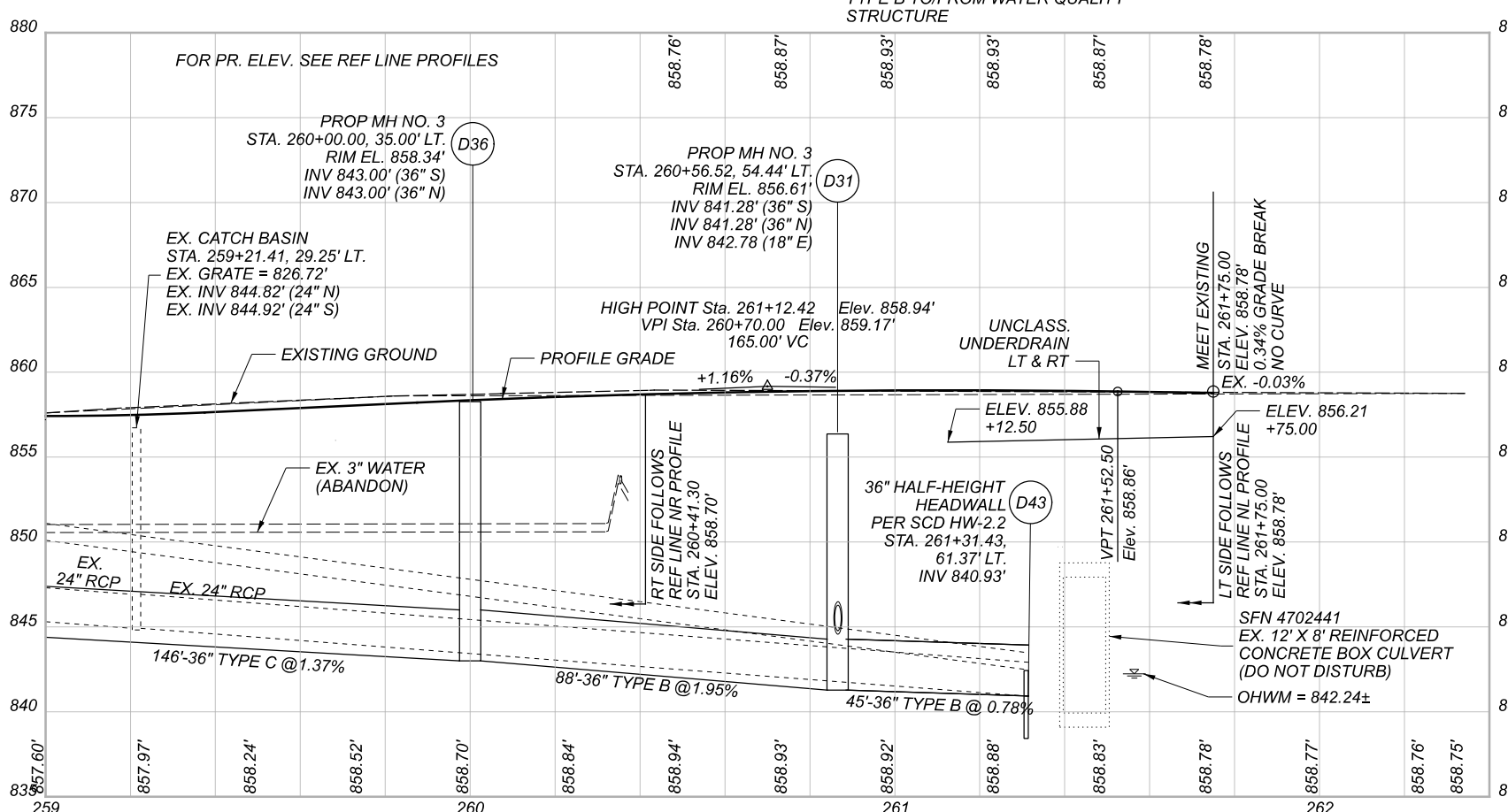
ITEM 462 - NON-REINFORCED CONCRETE PAVEMENT, MISC. : 7" CONCRETE STAMPED AND STAINED (SEE DETAILS ON SHEET P.11)

AA-T ANCHOR ASSEMBLY, TYPE T

PROPOSED LIGHT POLE SEE LIGHTING PLANS

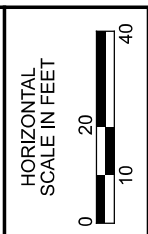
BMP LOCATIONS

BMP	FEATURE	ROUTE	STATION	OFFSET	LATITUDE (N)	LONGITUDE (W)
1	MANUFACTURED SYSTEM	SR 57/SR 83	260+61	RT	41.238438°N	82.022888°W

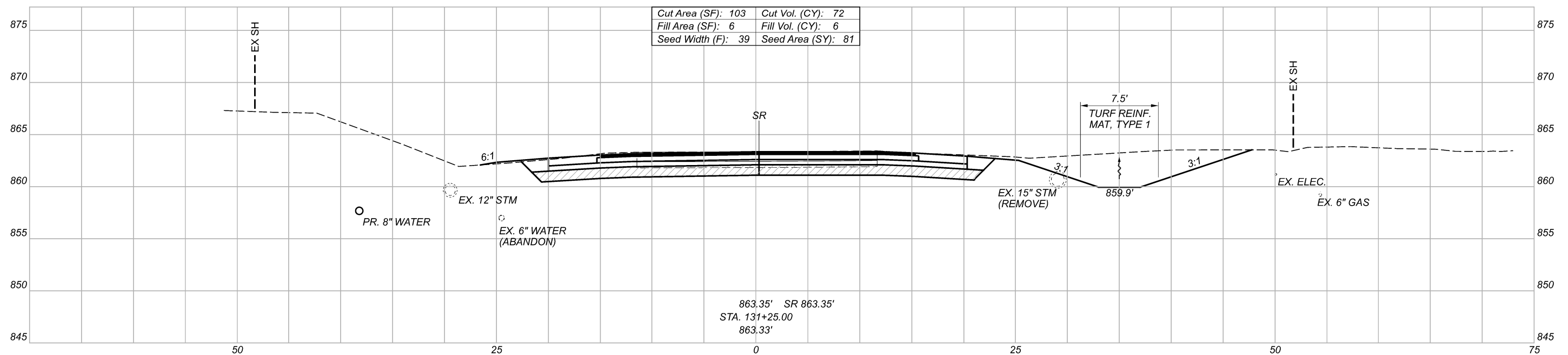
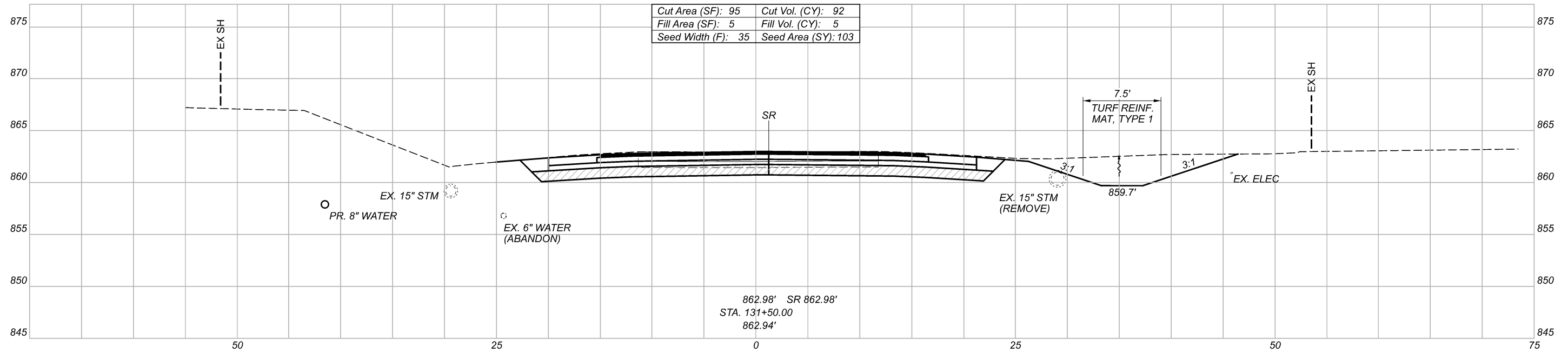


TBR = TO BE REMOVED
 DND = DO NOT DISTURB

P.I. = Sta. 1+47.39
 $\Delta = 27^{\circ}36'21''$ RT
 $D_c = 114^{\circ}35'30''$
 $R = 50.00'$
 $T = 12.28'$
 $L = 24.09'$
 $E = 1.49'$



**PLAN AND PROFILE - SR 83 AND SR 57
 STA. 259+00.00 TO END PROJECT**



 ITEM 204 - EXCAVATION OF SUBGRADE AND
 ITEM 204 - GRANULAR MATERIAL, TYPE B

Sheet Totals			109455	
Seeding	Cut	Fill	SHEET	TOTAL
184	164	11	P.37	P.163

SR 83 CROSS SECTIONS
 STA. 131+25.00 TO STA. 131+50.00

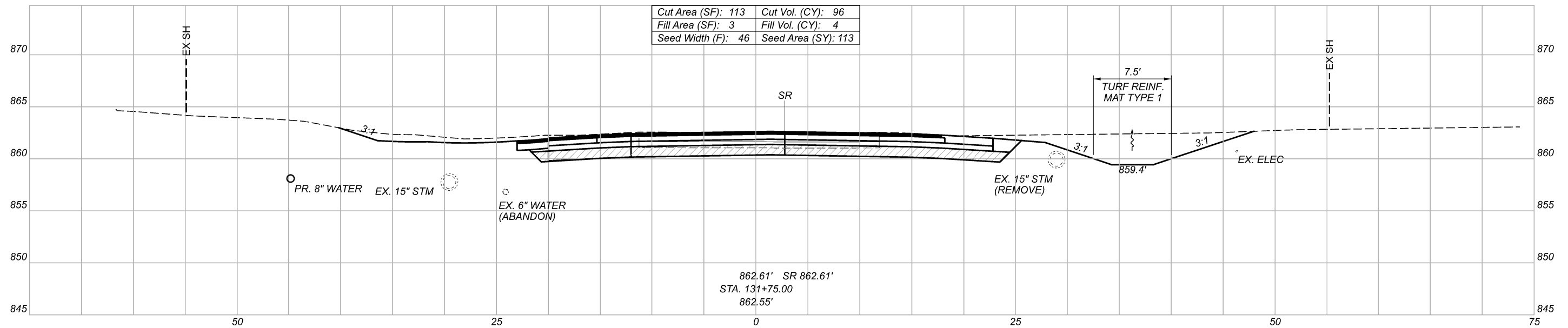
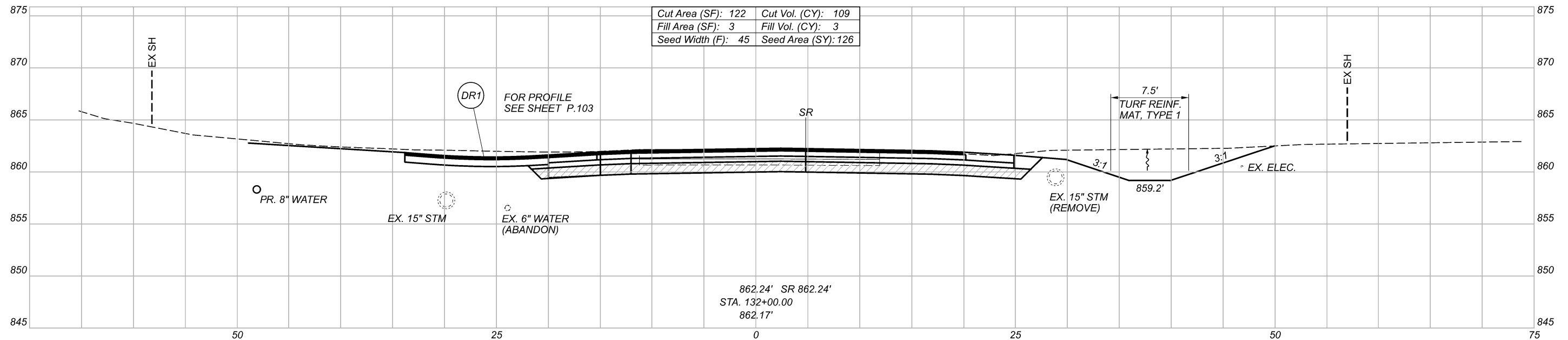
DESIGN AGENCY

AECOM

DESIGNER
 JNR

REVIEWER
 JES 11-16-20

PROJECT ID
 109455



 ITEM 204 - EXCAVATION OF SUBGRADE AND
 ITEM 204 - GRANULAR MATERIAL, TYPE B

Sheet Totals			109455	
Seeding	Cut	Fill	SHEET	TOTAL
239	205	7	P.38	P.163

SR 83 CROSS SECTIONS
 STA. 131+75.00 TO STA. 132+00.00

DESIGN AGENCY

AECOM

DESIGNER

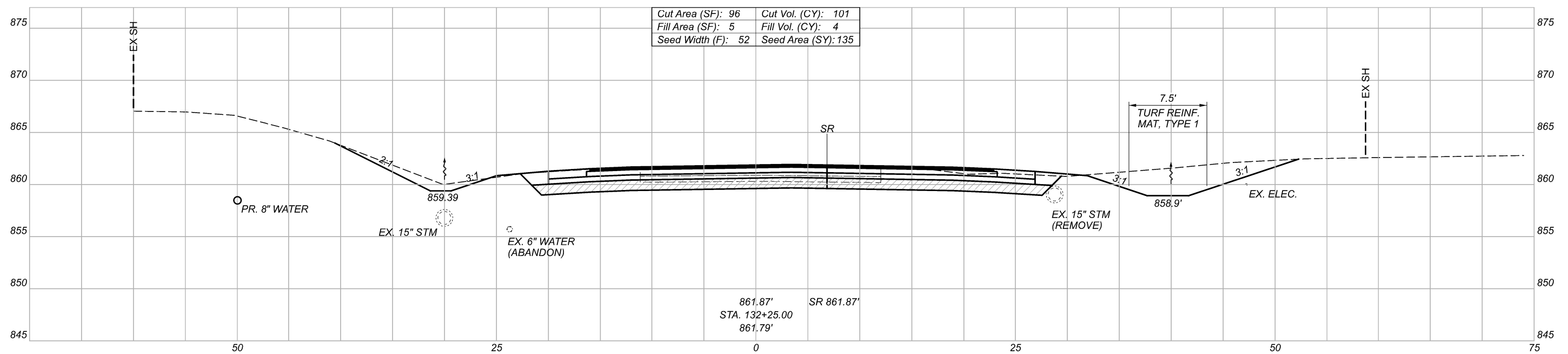
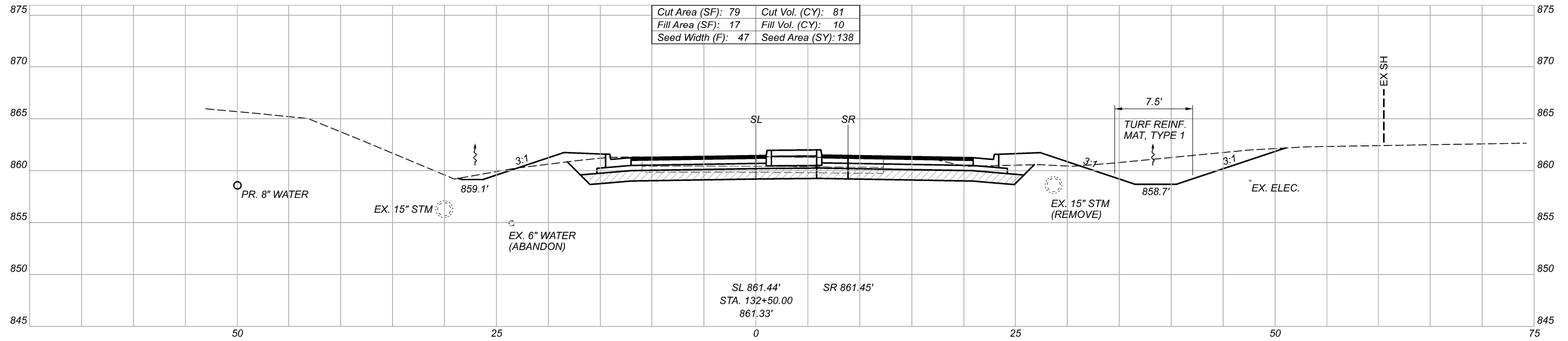
JNR

REVIEWER

JES 11-16-20

PROJECT ID

109455



 ITEM 204 - EXCAVATION OF SUBGRADE AND
 ITEM 204 - GRANULAR MATERIAL, TYPE B

Sheet Totals			109455	
Seeding	Cut	Fill	SHEET	TOTAL
273	182	14	P.39	P.163

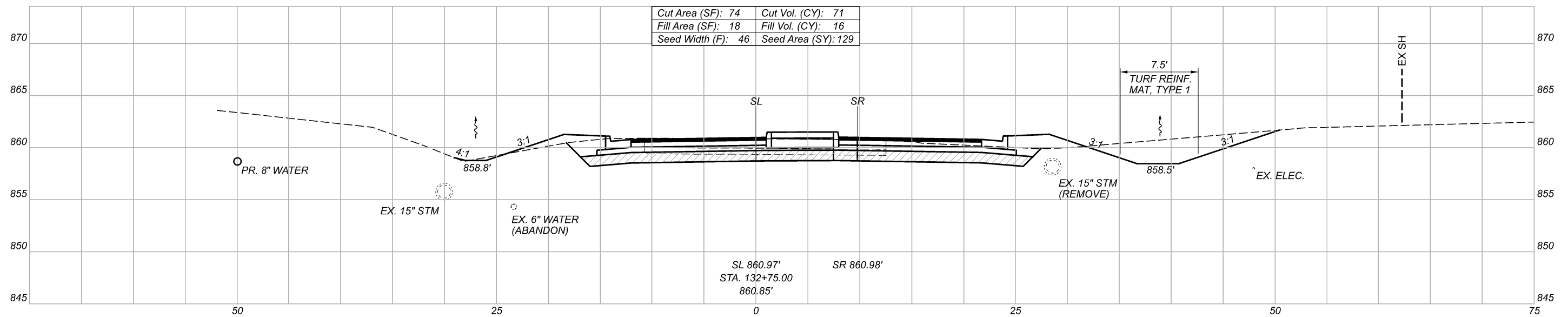
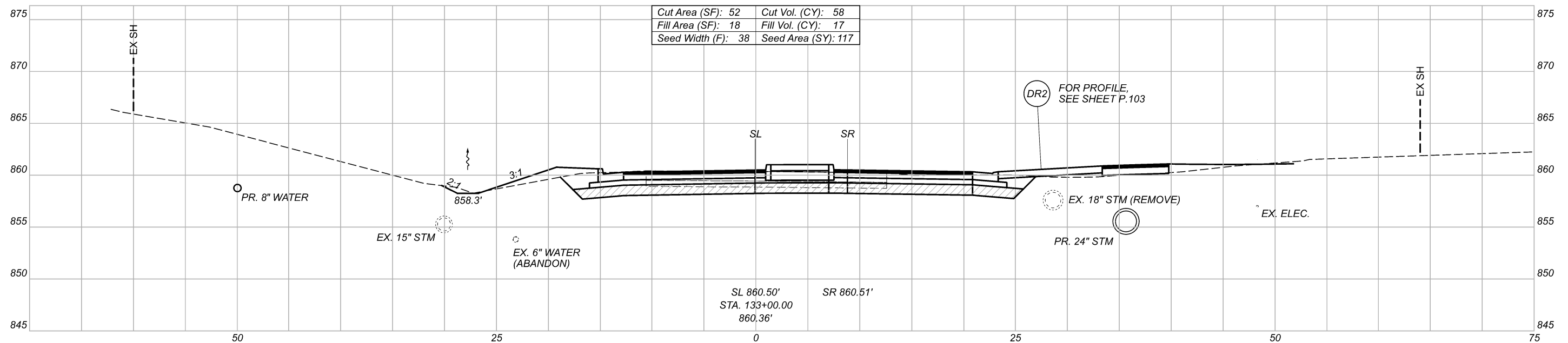
DESIGN AGENCY



DESIGNER
 JNR

REVIEWER
 JES 11-16-20

PROJECT ID
 109455



ITEM 204 - EXCAVATION OF SUBGRADE AND
 ITEM 204 - GRANULAR MATERIAL, TYPE B

Sheet Totals			109455	
Seeding	Cut	Fill	SHEET	TOTAL
246	129	33	P.40	P.163

SR 83 CROSS SECTIONS
 STA. 132+75.00 TO STA. 133+00.00

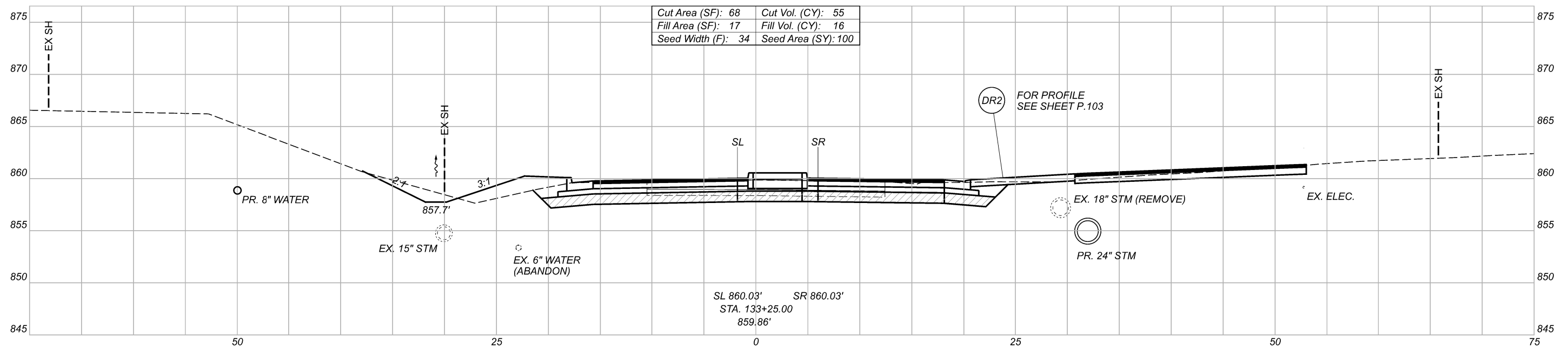
DESIGN AGENCY

AECOM

DESIGNER
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REVIEWER
 JES 11-16-20

PROJECT ID
 109455



Cut Area (SF): 68	Cut Vol. (CY): 55
Fill Area (SF): 17	Fill Vol. (CY): 16
Seed Width (F): 34	Seed Area (SY): 100

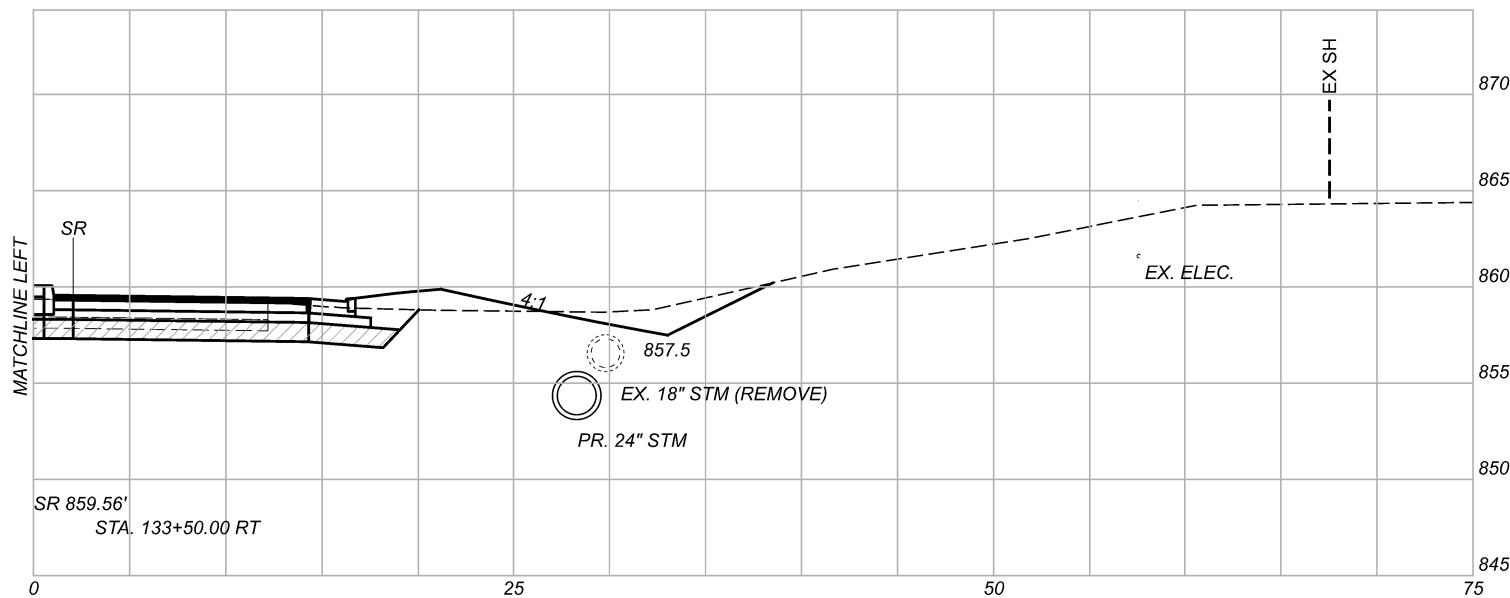
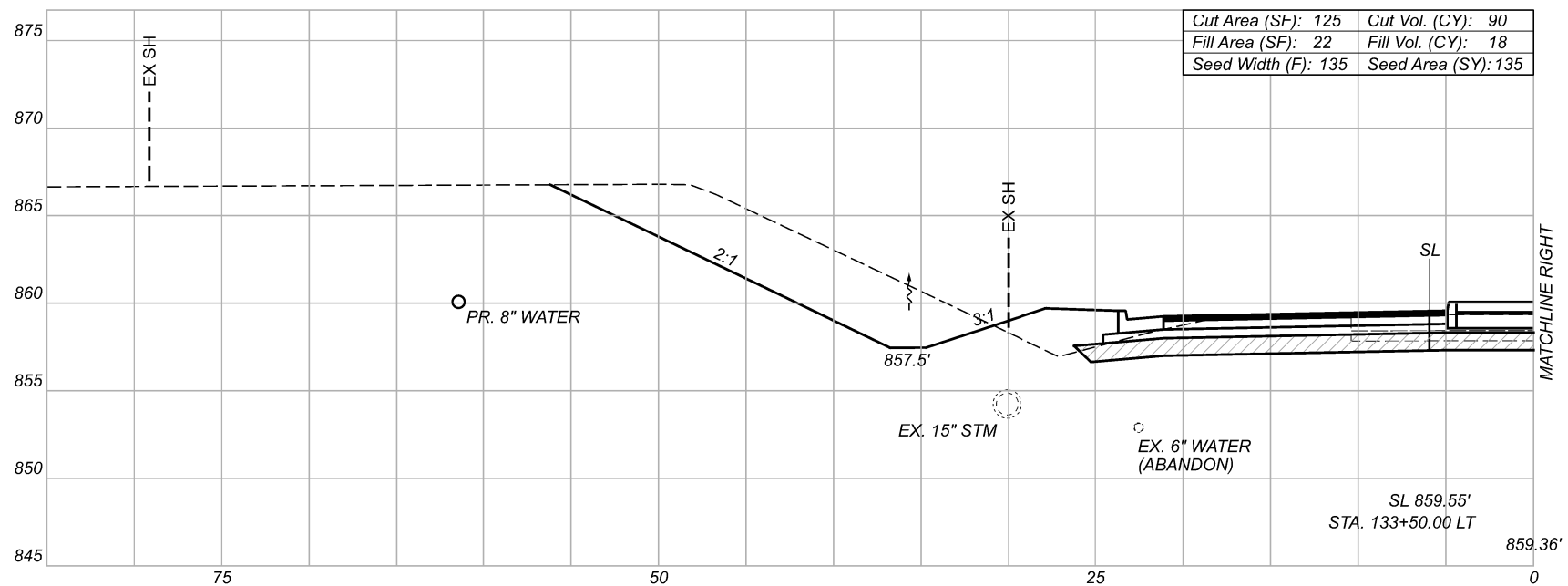
SL 860.03' SR 860.03'
 STA. 133+25.00
 859.86'

 ITEM 204 - EXCAVATION OF SUBGRADE AND
 ITEM 204 - GRANULAR MATERIAL, TYPE B

Sheet Totals			109455	
Seeding	Cut	Fill	SHEET	TOTAL
100	55	16	P.41	P.163

SR 83 CROSS SECTIONS
 STA. 133+25.00

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 PROJECT ID
 109455



ITEM 204 - EXCAVATION OF SUBGRADE AND
 ITEM 204 - GRANULAR MATERIAL, TYPE B

Sheet Totals		
Seeding	Cut	Fill
135	90	18

SHEET	TOTAL
P.42	P.163

DESIGN AGENCY



DESIGNER

JNR

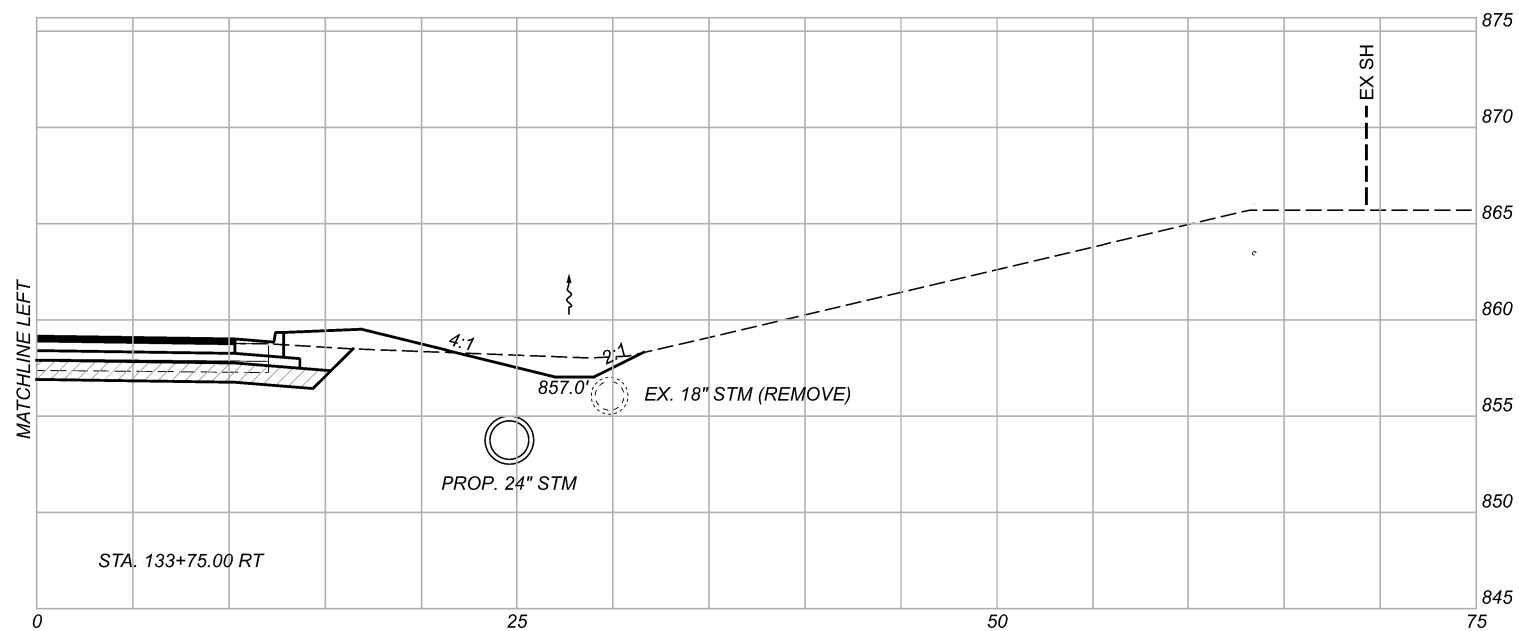
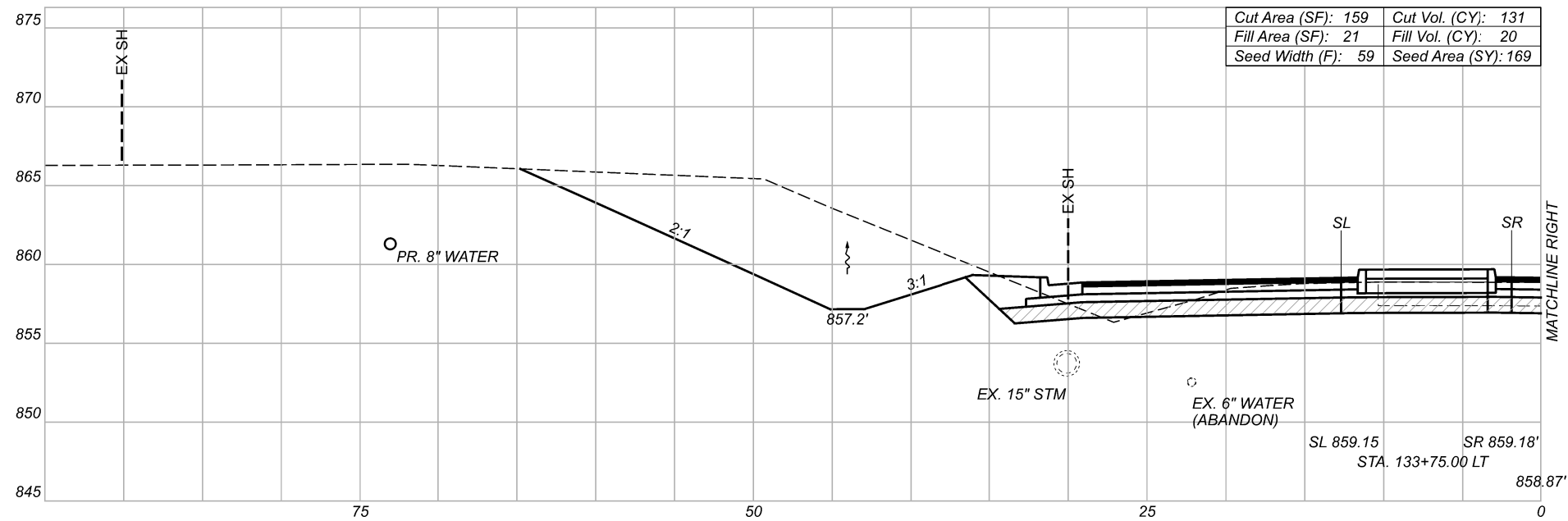
REVIEWER

JES 11-16-20

PROJECT ID

109455

SR 83 CROSS SECTIONS
 STA. 133+50.00

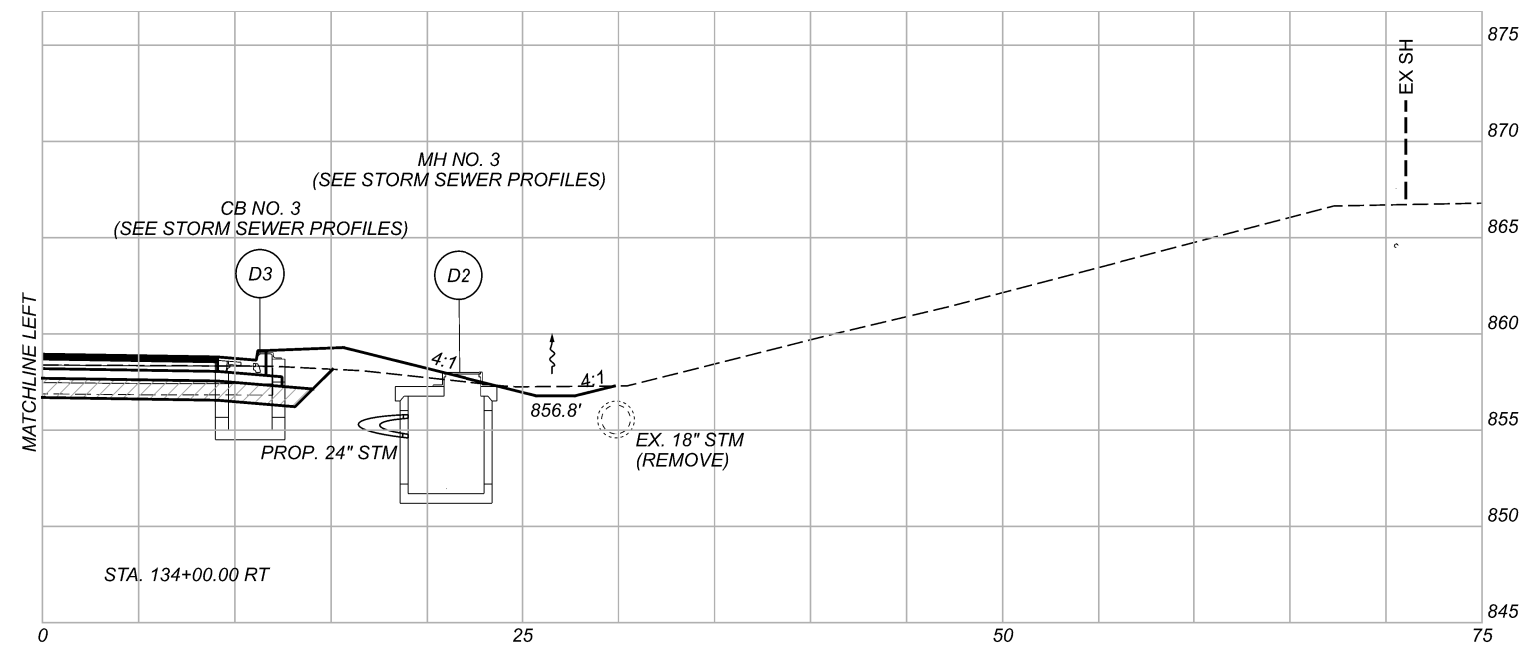
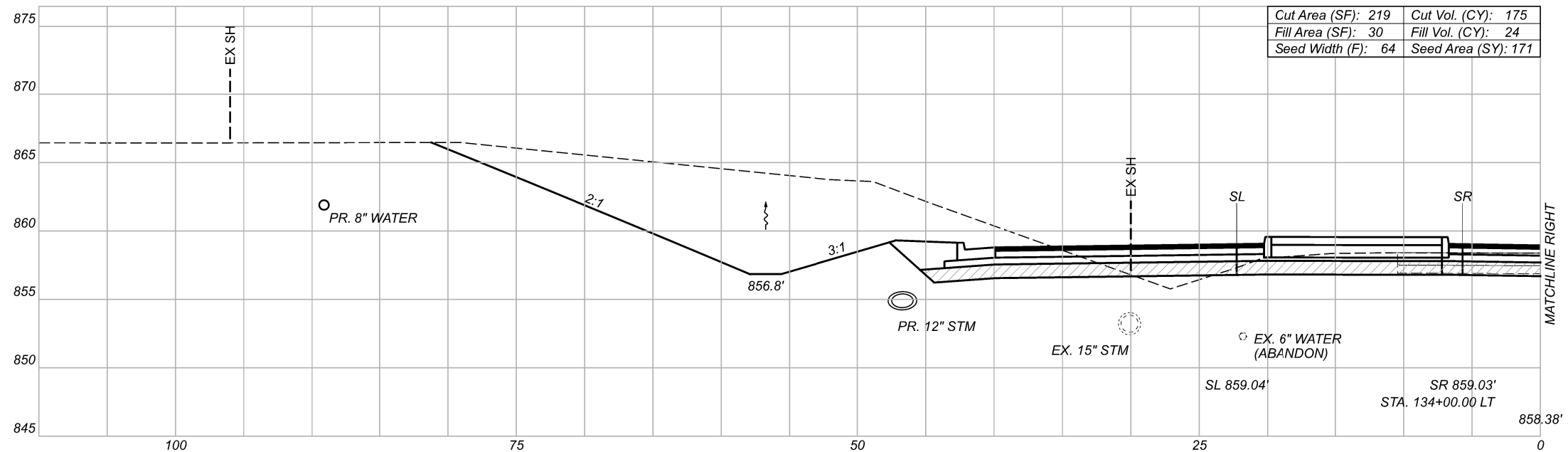


 ITEM 204 - EXCAVATION OF SUBGRADE AND
 ITEM 204 - GRANULAR MATERIAL, TYPE B

Sheet Totals			109455	
Seeding	Cut	Fill	SHEET	TOTAL
169	131	20	P.43	P.163

SR 83 CROSS SECTIONS
 STA. 133+75.00

DESIGN AGENCY
AECOM
 DESIGNER
 JNR
 REVIEWER
 JES 11-16-20
 PROJECT ID
 109455



 ITEM 204 - EXCAVATION OF SUBGRADE AND
 ITEM 204 - GRANULAR MATERIAL, TYPE B

Sheet Totals			109455	
Seeding	Cut	Fill	SHEET	TOTAL
171	175	24	P.44	P.163

SR 83 CROSS SECTIONS
 STA. 134+00.00

DESIGN AGENCY



DESIGNER
 JNR

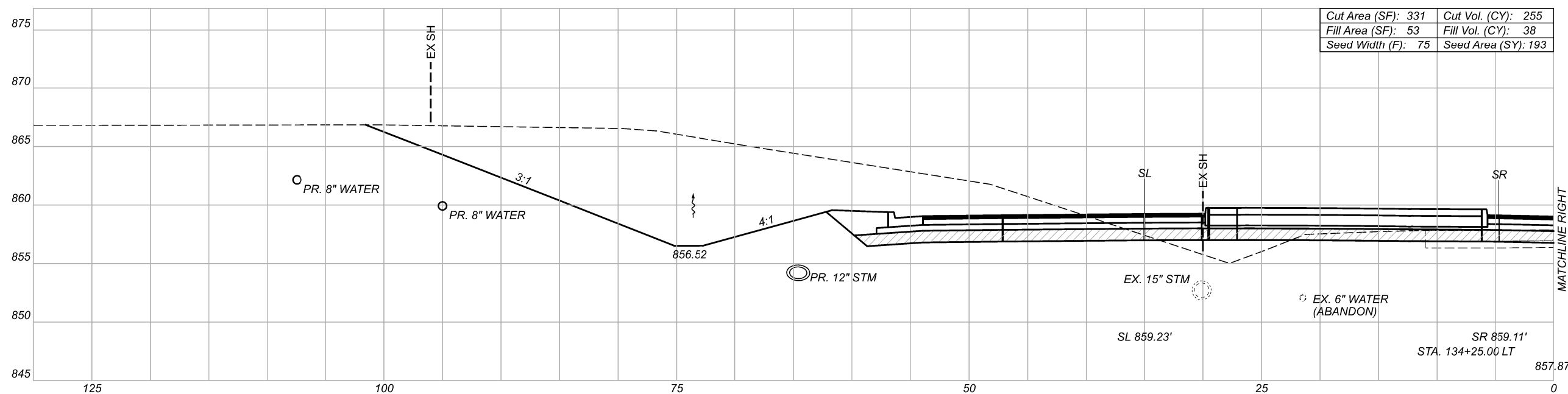
REVIEWER
 JES 11-16-20

PROJECT ID
 109455

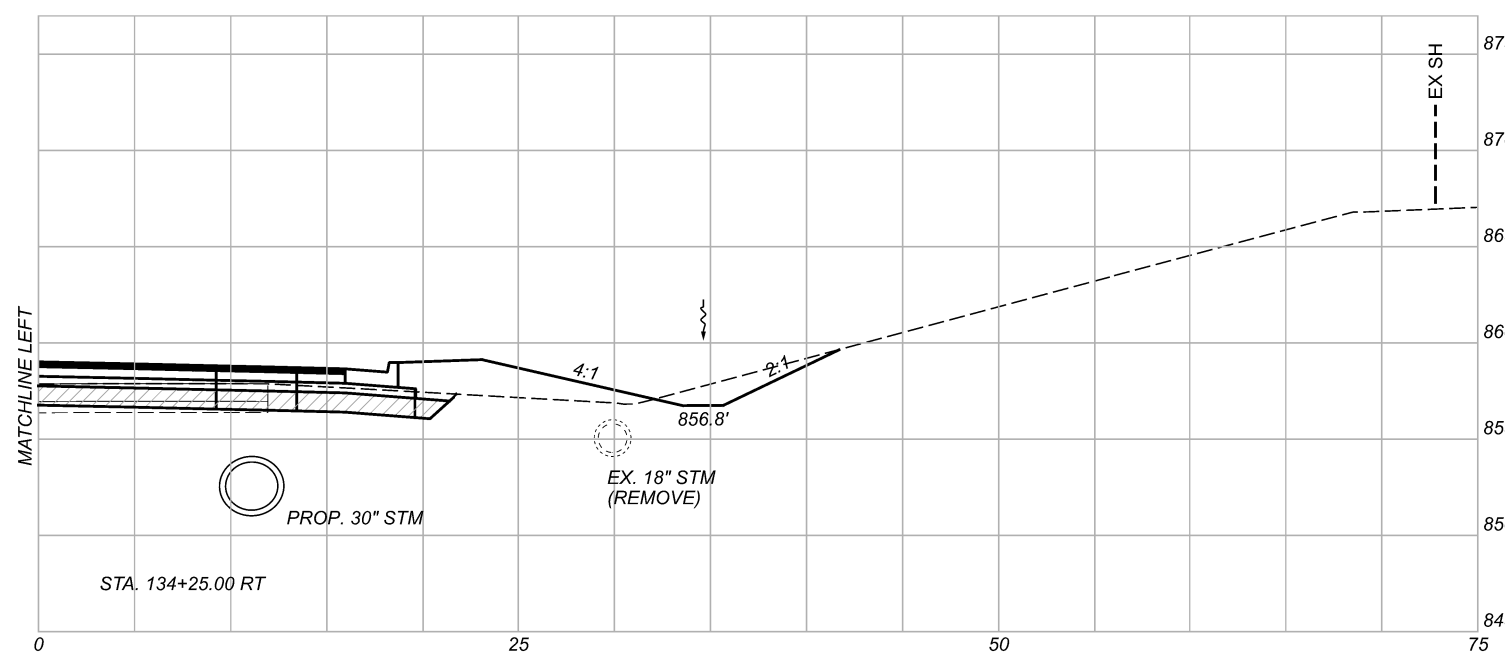
NOTE: ROUNDABOUT CROSS SECTIONS ALONG SR 83 NOT SHOWN.
 FOR ROUNDABOUT RADIAL CROSS SECTIONS, SEE SHEETS P.83 TO P.86

SOUTH ROUNDABOUT
 ESTIMATED QUANTITIES

Cut Vol. (CY):	995
Fill Vol. (CY):	648
Seed Area (SY):	532



Cut Area (SF):	331	Cut Vol. (CY):	255
Fill Area (SF):	53	Fill Vol. (CY):	38
Seed Width (F):	75	Seed Area (SY):	193

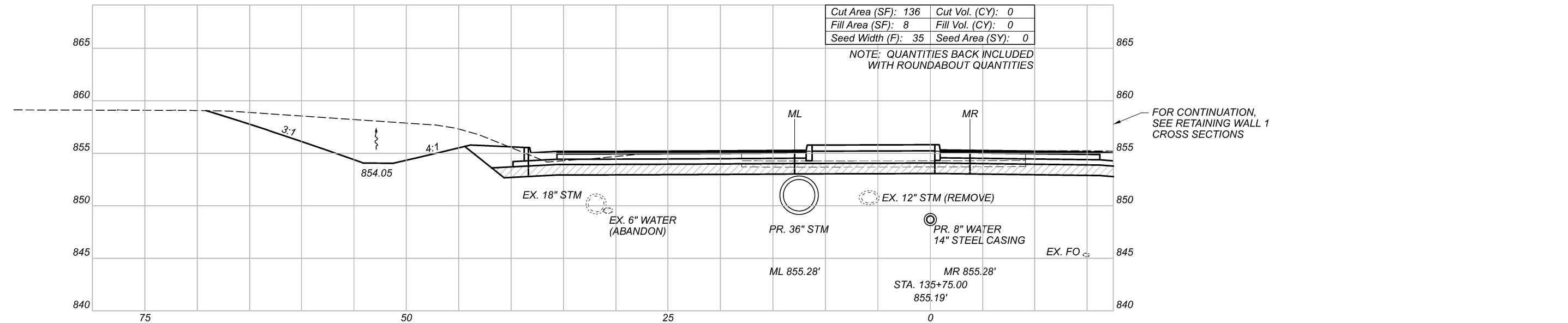
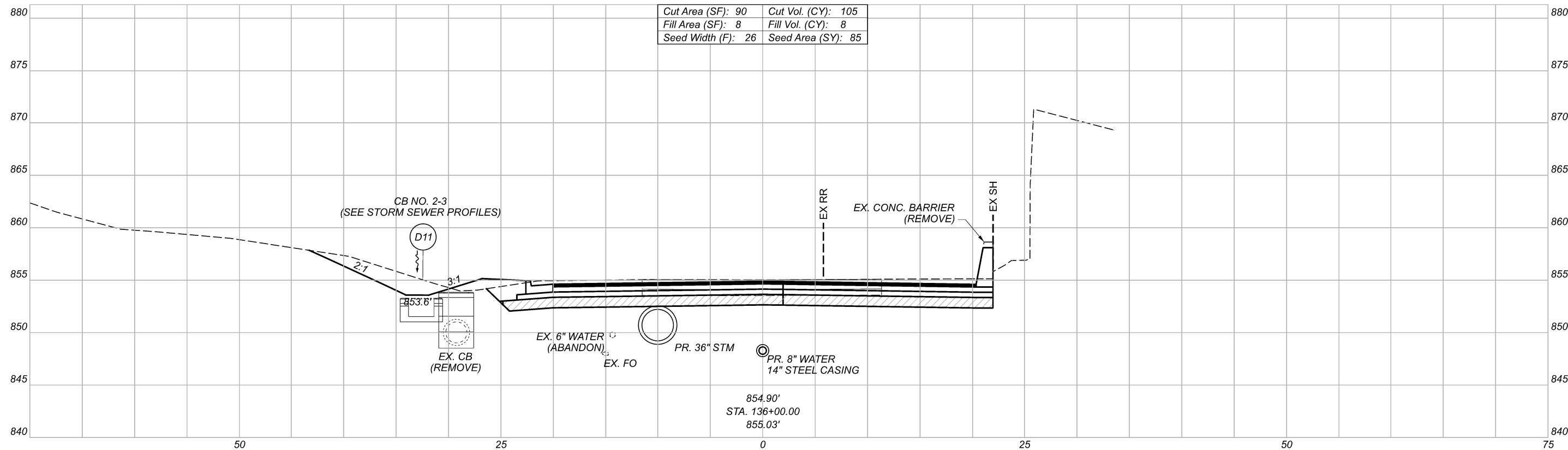


ITEM 204 - EXCAVATION OF SUBGRADE AND
 ITEM 204 - GRANULAR MATERIAL, TYPE B

Sheet Totals		
Seeding	Cut	Fill
725	1250	686

DESIGN AGENCY	AECOM
DESIGNER	JNR
REVIEWER	JES
PROJECT ID	109455
SHEET	P.45
TOTAL	P.163

SR 83 CROSS SECTIONS
 STA. 134+25.00



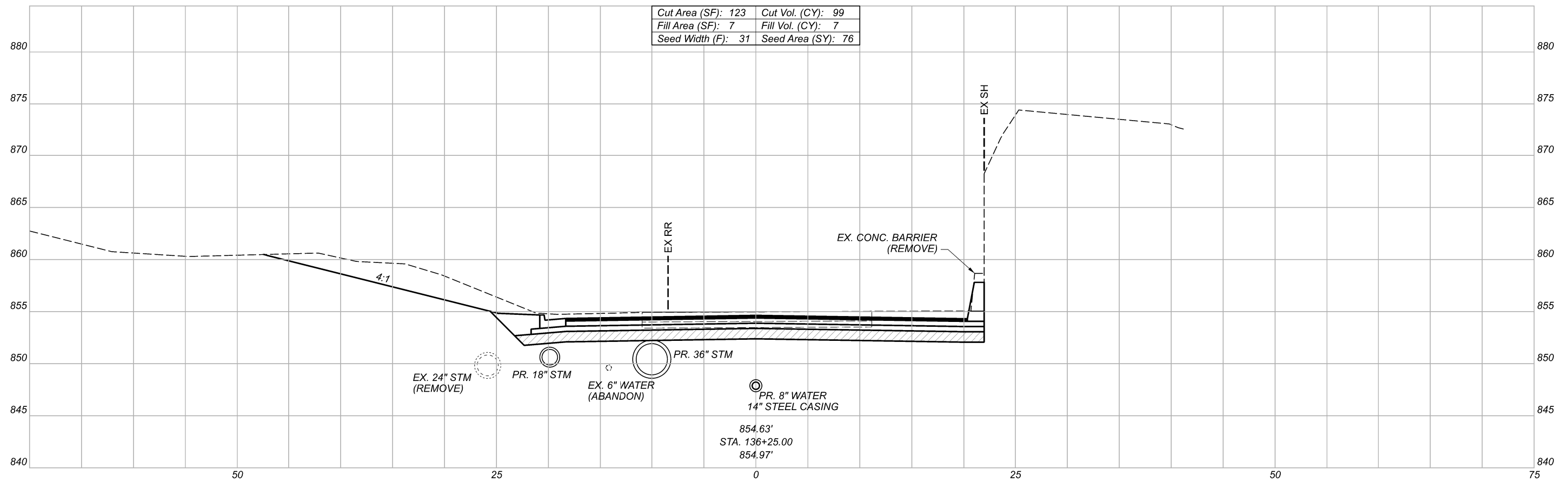
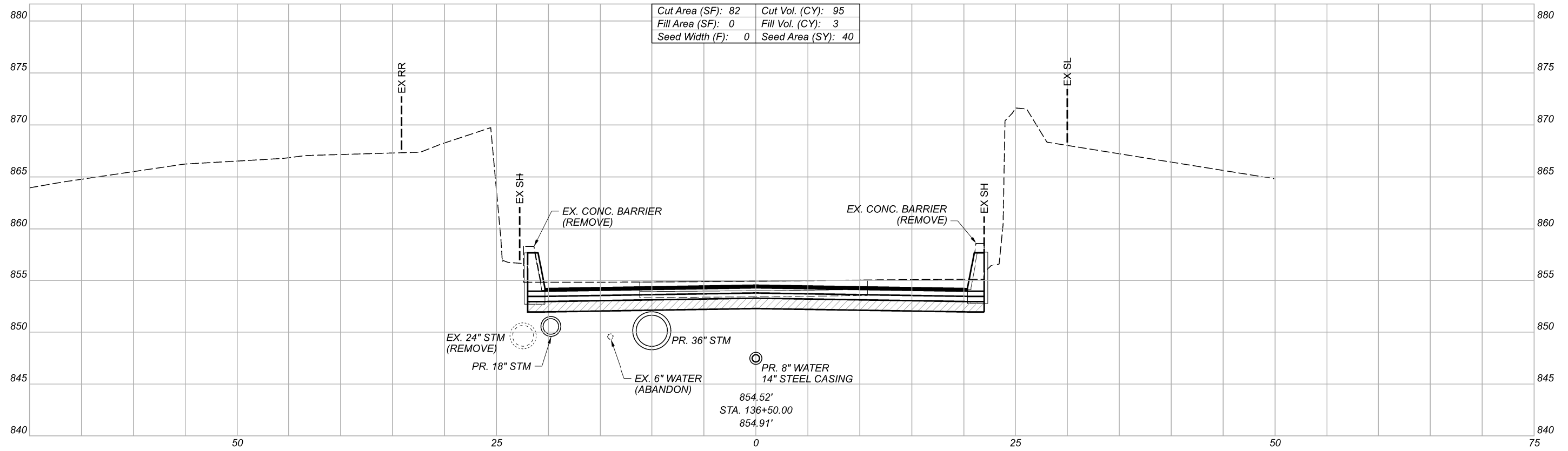
SR 83 CROSS SECTIONS
 STA. 135+75.00 TO STA. 136+00.00

DESIGN AGENCY	AECOM	
DESIGNER	JNR	
REVIEWER	JES 11-16-20	
PROJECT ID	109455	
SHEET	P.46	TOTAL P.163

 ITEM 204 - EXCAVATION OF SUBGRADE AND
 ITEM 204 - GRANULAR MATERIAL, TYPE B

Sheet Totals		
Seeding	Cut	Fill
85	105	8

FOR CONTINUATION, SEE RETAINING WALL 1 CROSS SECTIONS



ITEM 204 - EXCAVATION OF SUBGRADE AND
 ITEM 204 - GRANULAR MATERIAL, TYPE B

Sheet Totals			109455	
Seeding	Cut	Fill	SHEET	TOTAL
116	194	10	P.47	P.163

DESIGN AGENCY

AECOM

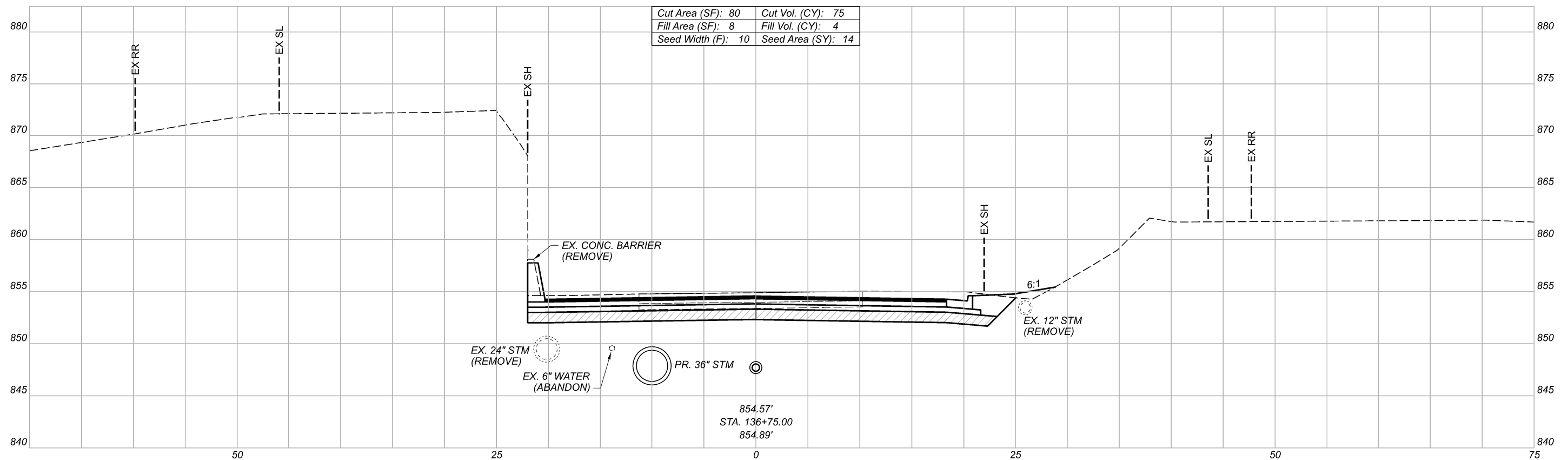
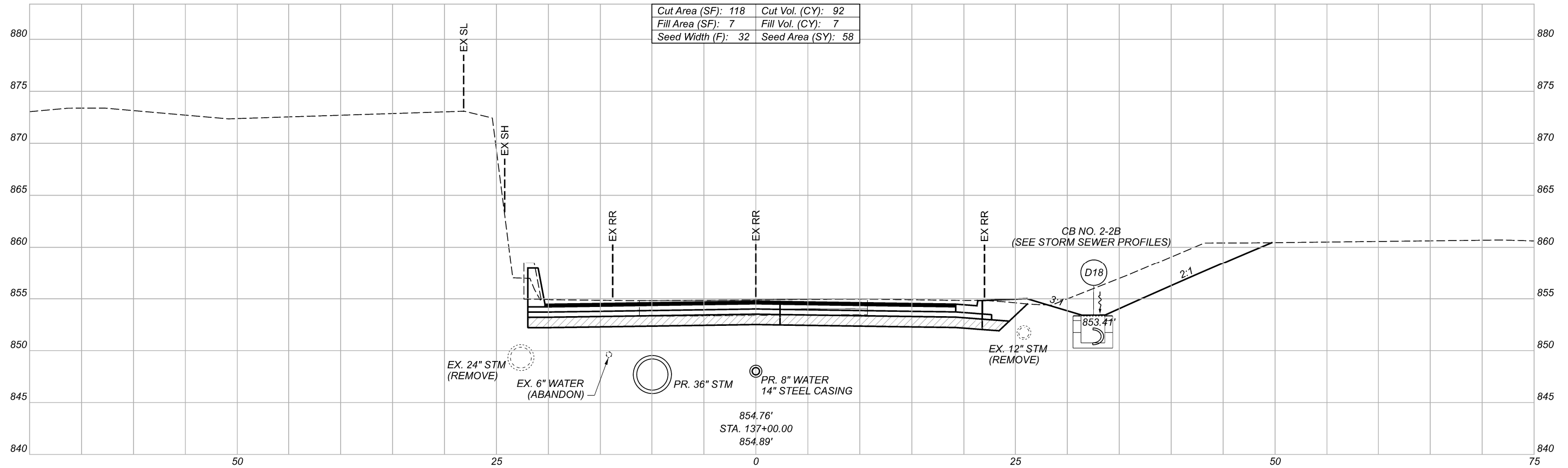
DESIGNER
JNR

REVIEWER
JES 11-16-20

PROJECT ID
109455

SHEET TOTAL
P.47 P.163

SR 83 CROSS SECTIONS
 STA. 136+25.00 TO STA. 136+50.00



 ITEM 204 - EXCAVATION OF SUBGRADE AND
 ITEM 204 - GRANULAR MATERIAL, TYPE B

Sheet Totals		
Seeding	Cut	Fill
72	167	11

PROJECT ID	
109455	
SHEET	TOTAL
P.48	P.163

SR 83 CROSS SECTIONS
 STA. 136+75.00 TO STA. 137+00.00

DESIGN AGENCY

AECOM

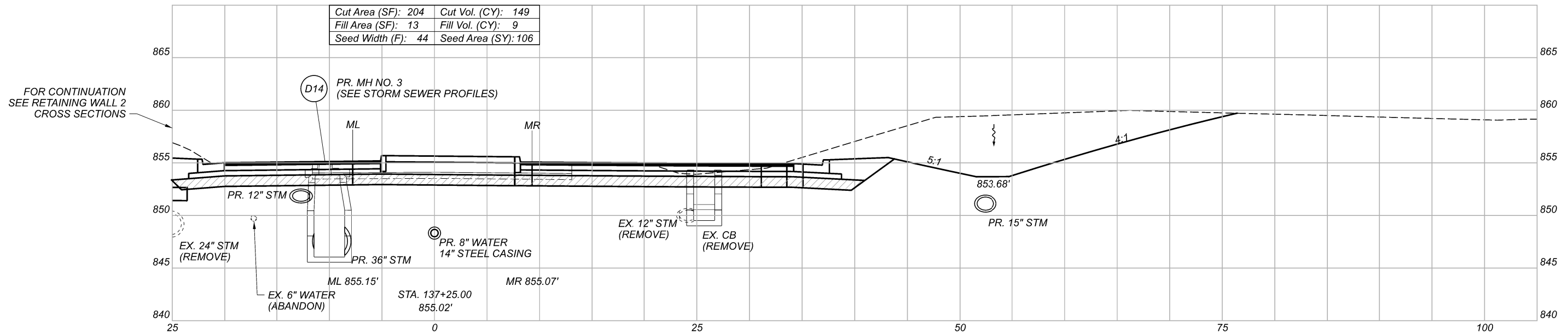
DESIGNER
 JNR

REVIEWER
 JES 11-16-20

NOTE: ROUNDABOUT CROSS SECTIONS ALONG SR 83/SR 57 NOT SHOWN.
 FOR ROUNDABOUT RADIAL CROSS SECTIONS, SEE SHEETS P.87 TO P.89

NORTH ROUNDABOUT
 ESTIMATED QUANTITIES

Cut Vol. (CY):	574
Fill Vol. (CY):	523
Seed Area (SY):	533



ITEM 204 - EXCAVATION OF SUBGRADE AND
 ITEM 204 - GRANULAR MATERIAL, TYPE B

Sheet Totals		
Seeding	Cut	Fill
639	723	532

DESIGN AGENCY

AECOM

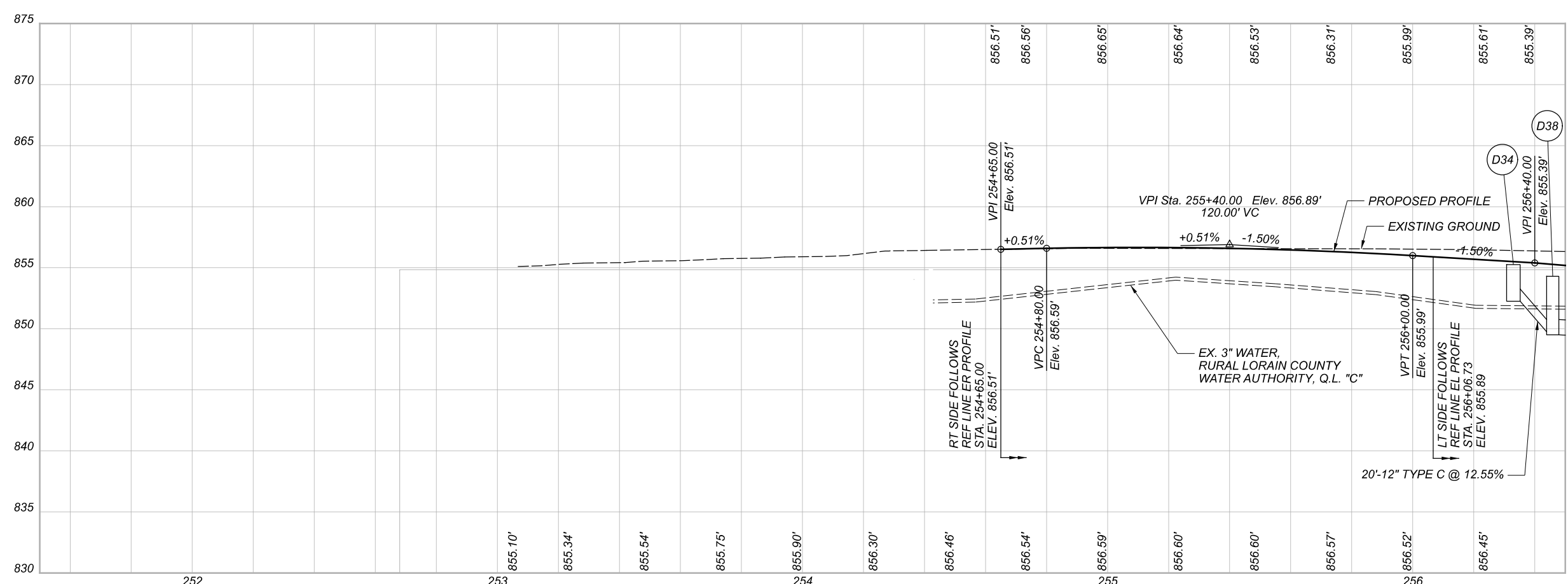
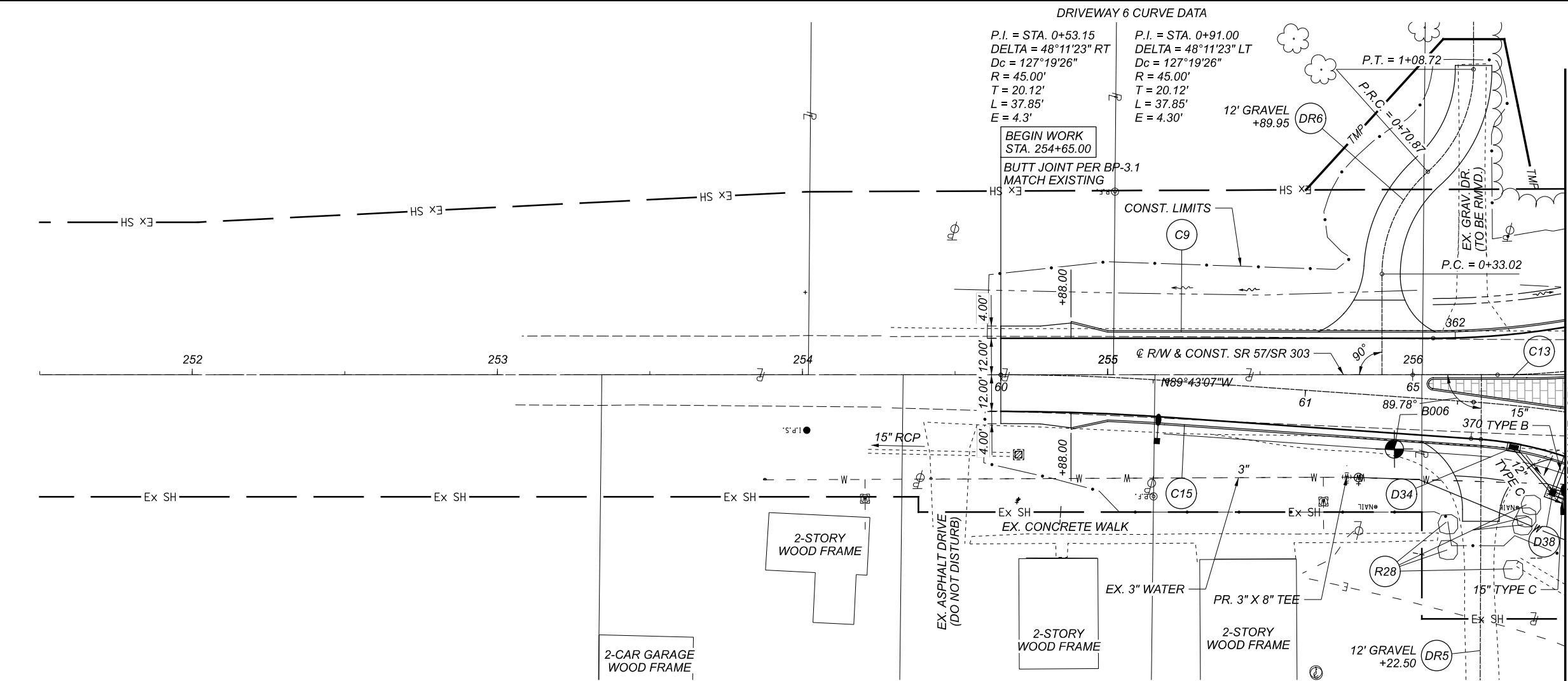
DESIGNER
 JNR

REVIEWER
 JES 11-16-20

PROJECT ID
 109455

SHEET	TOTAL
P.49	P.163

SR 83 CROSS SECTIONS
 STA. 137+25.00



NOTES

FOR ROUNDABOUT GEOMETRICS AND REFERENCE LINE DATA, SEE SHEETS P.3 - P.4

FOR ROUNDABOUT PROFILES, SEE SHEETS P.74 - P.80

FOR SR 57 CROSS SECTIONS, SEE SHEETS P.69 - P.73

FOR PAVEMENT DETAILS, SEE SHEET P.96

FOR SPLITTER ISLAND DETAILS, SEE SHEET P.99

FOR CURB TRANSITION DETAILS, SEE SHEET P.101

FOR ESTIMATED QUANTITIES, SEE SHEETS P.25 - P.28

LEGEND

ITEM 462 - NON-REINFORCED CONCRETE PAVEMENT, MISC. : 7" CONCRETE STAMPED AND STAINED (SEE DETAILS ON SHEET P.11)

PROPOSED LIGHT POLE SEE LIGHTING PLANS

NOTE: SEE GENERAL NOTES FOR REMOVAL OF LANDSCAPE ROCKS WITHIN THE RIGHT OF WAY ADJACENT TO THE GRAFTON TOWNSHIP VETERAN'S MEMORIAL PARK (BELDEN HISTORICAL SOCIETY).

PLAN AND PROFILE - SR 57/SR 303
BEGINNING TO STA. 256+50

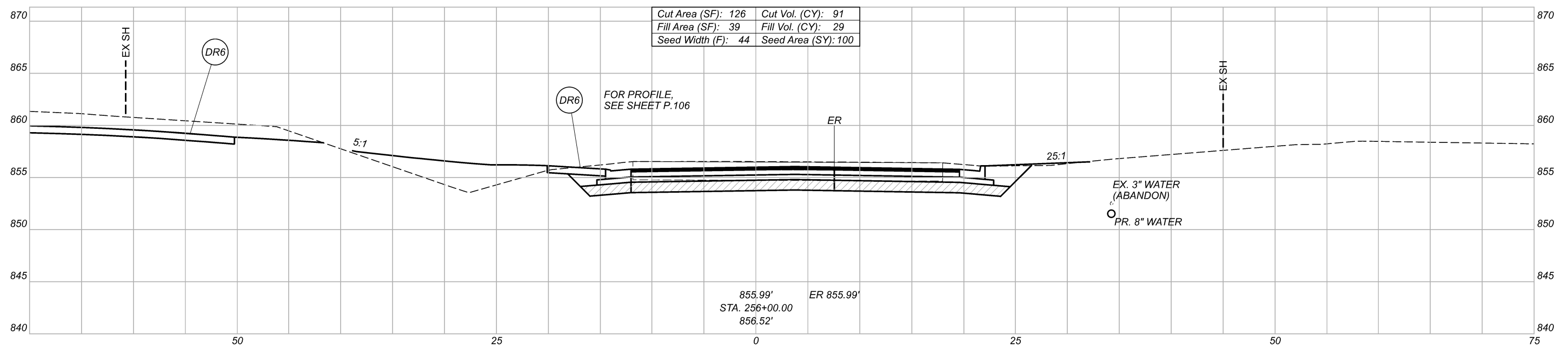
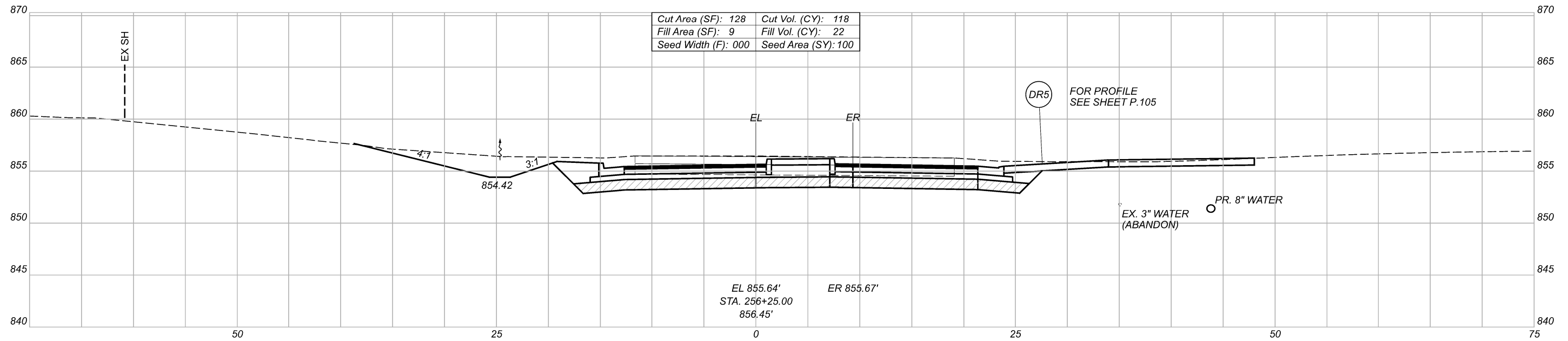
DESIGN AGENCY
AECOM

DESIGNER
CKJ

REVIEWER
JES 01/10/20

PROJECT ID
109455

SHEET TOTAL
P.68 | P.163



 ITEM 204 - EXCAVATION OF SUBGRADE AND
 ITEM 204 - GRANULAR MATERIAL, TYPE B

Sheet Totals			109455	
Seeding	Cut	Fill	SHEET	TOTAL
200	209	51	P.72	P.163

DESIGN AGENCY

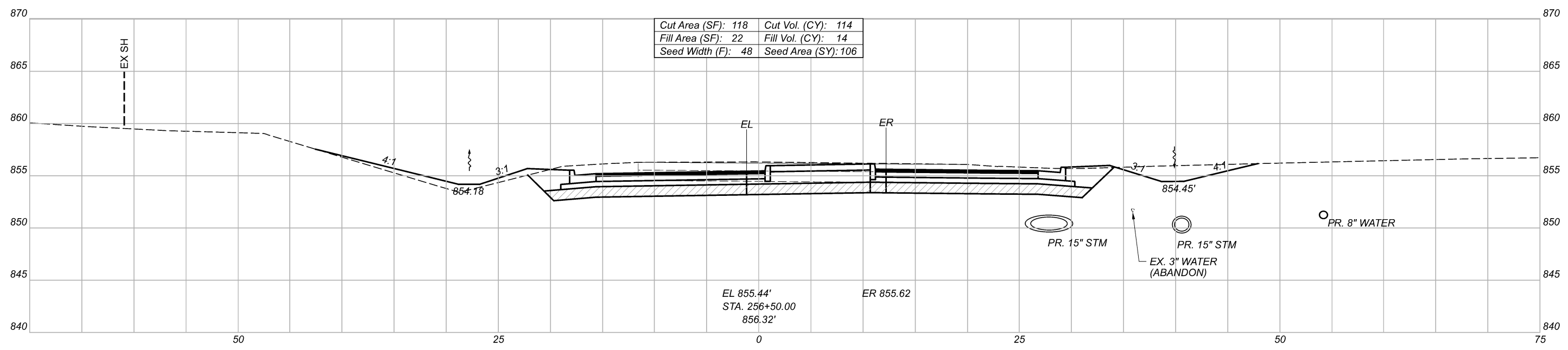
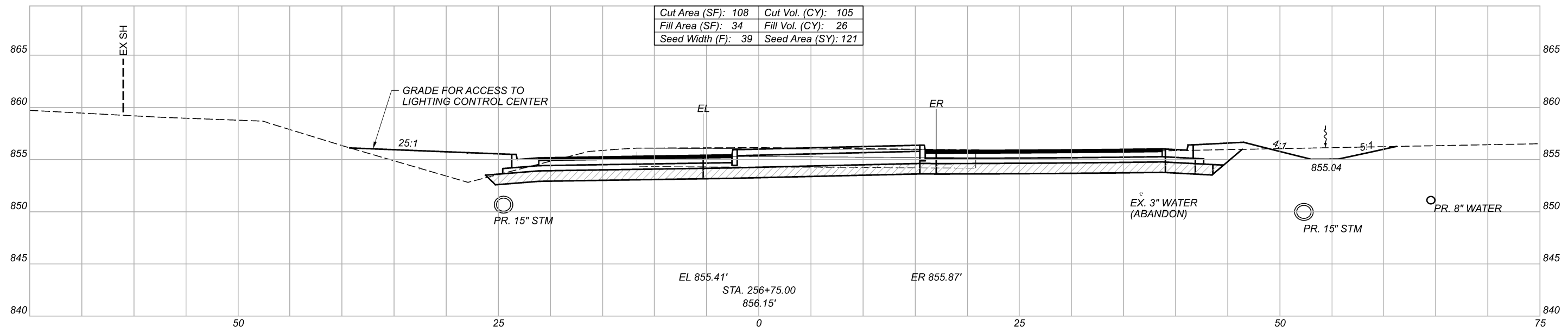


DESIGNER
 JNR

REVIEWER
 JES 11-16-20

PROJECT ID
 109455

SR 57 TOTALS CARRIED TO ROADWAY SUBSUMMARY	Cut Vol. (CY):	635
	Fill Vol. (CY):	172
	Seed Area (SY):	711

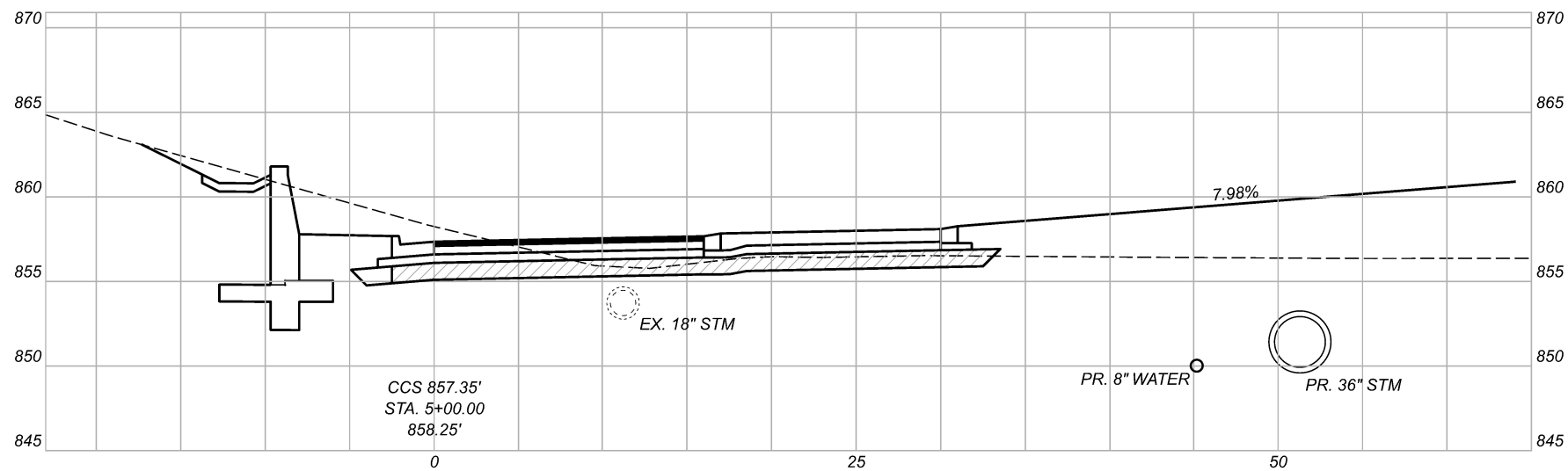
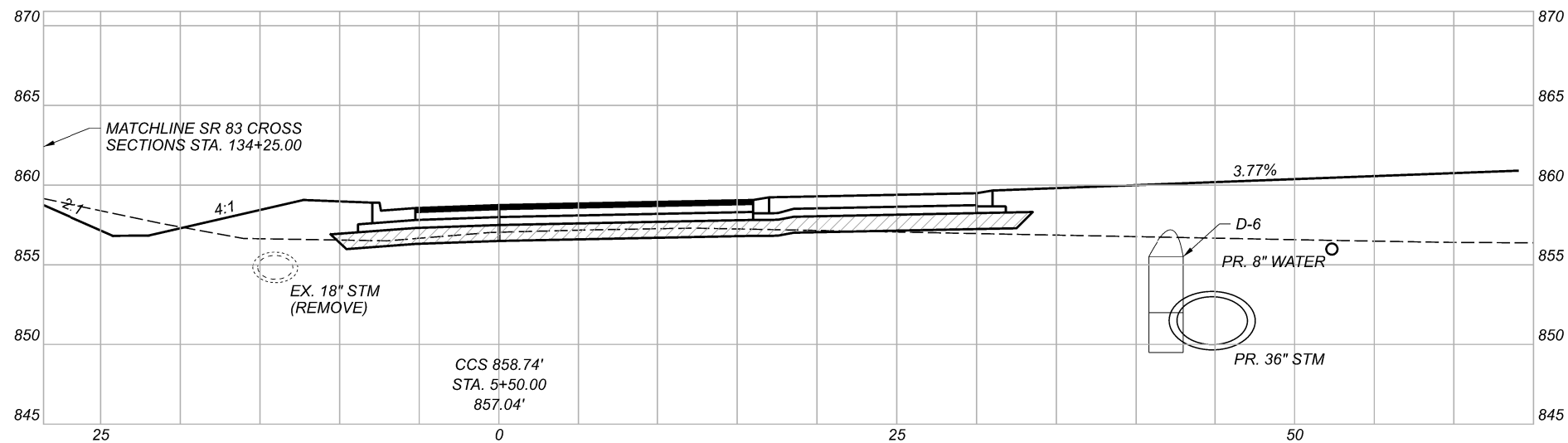
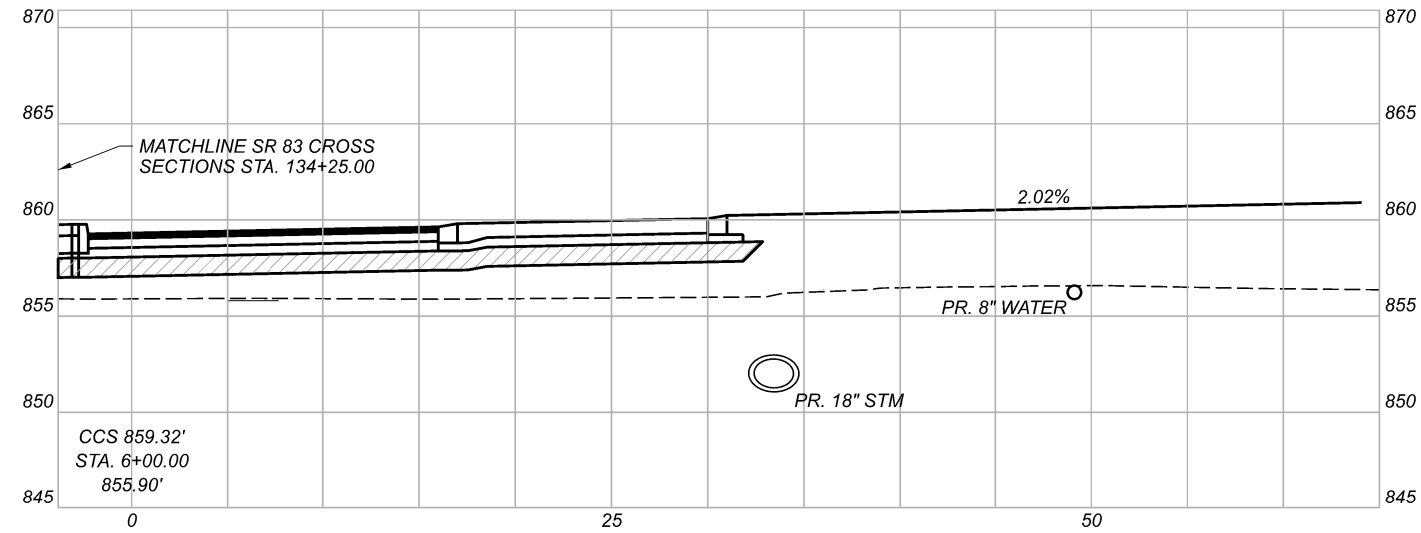


ITEM 204 - EXCAVATION OF SUBGRADE AND
 ITEM 204 - GRANULAR MATERIAL, TYPE B

Sheet Totals			109455	
Seeding	Cut	Fill	SHEET	TOTAL
227	219	40	P.73	P.163

DESIGN AGENCY
AECOM
 DESIGNER
 JNR
 REVIEWER
 JES 11-16-20
 PROJECT ID
 109455

SR 57 CROSS SECTIONS
 STA. 256+50.00 TO STA. 256+75.00



NOTE: SECTIONS SHOWN FOR INFORMATION ONLY. FOR EARTHWORK AND SEEDING QUANTITIES, SEE SR 83 CROSS SECTIONS.

 ITEM 204 - EXCAVATION OF SUBGRADE AND
 ITEM 204 - GRANULAR MATERIAL, TYPE B

DESIGN AGENCY

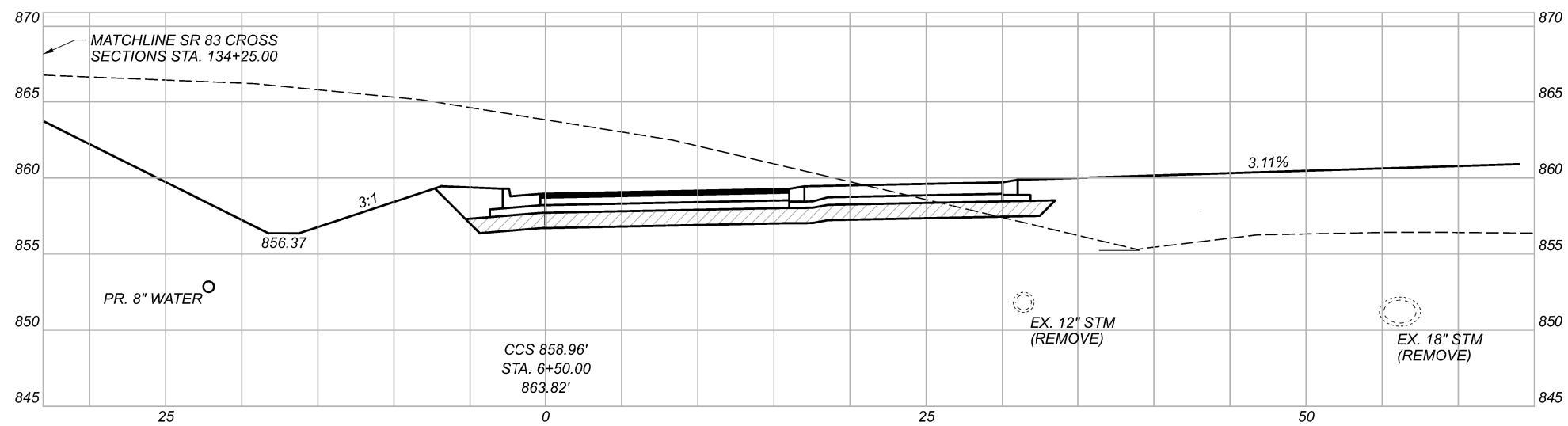
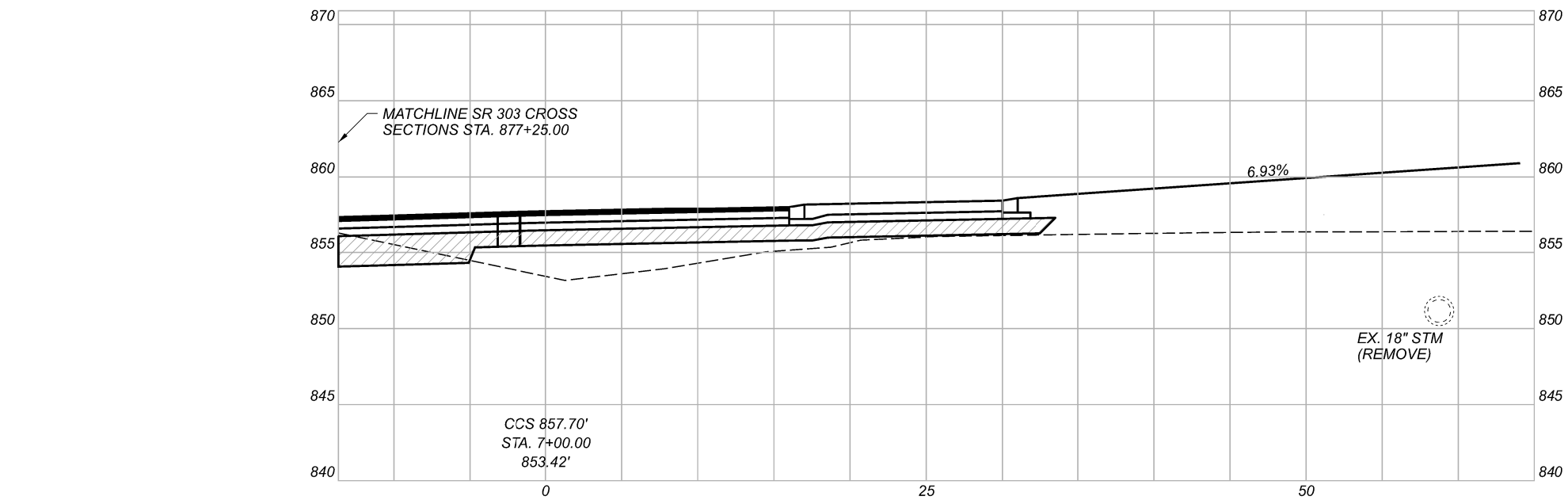
AECOM

DESIGNER
 JNR

REVIEWER
 JES 11-16-20

PROJECT ID
 109455

SHEET TOTAL
 P.83 P.163



NOTE: SECTIONS SHOWN FOR INFORMATION ONLY. FOR EARTHWORK AND SEEDING QUANTITIES, SEE SR 83 CROSS SECTIONS.

ITEM 204 - EXCAVATION OF SUBGRADE AND
 ITEM 204 - GRANULAR MATERIAL, TYPE B

DESIGN AGENCY

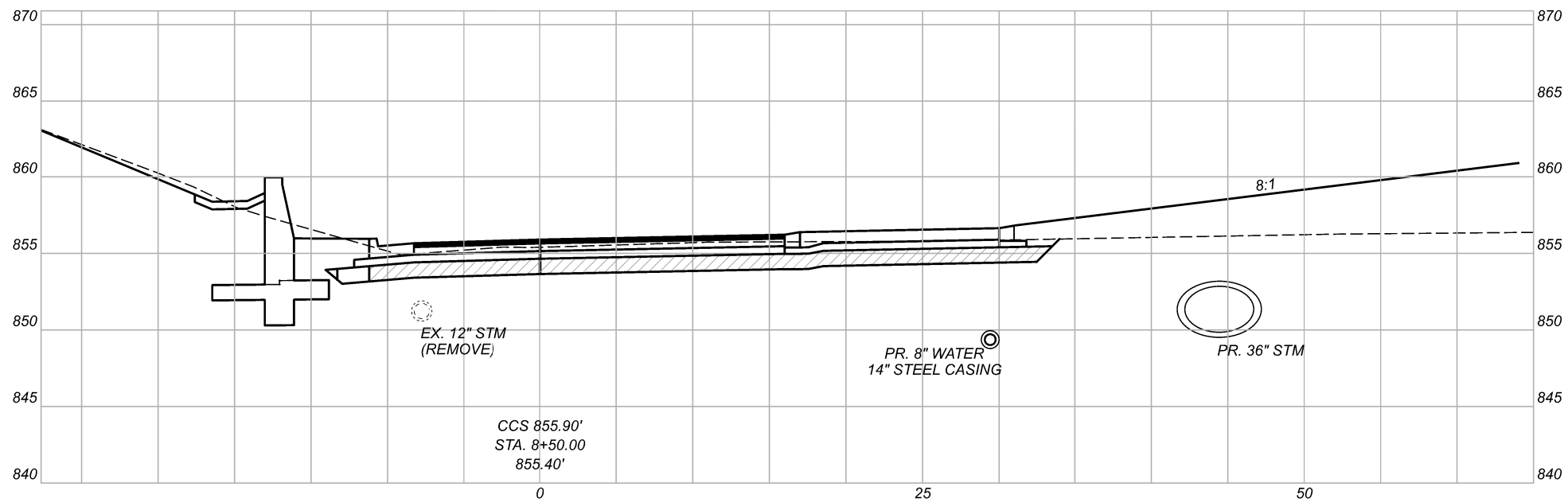
AECOM

DESIGNER
 JNR

REVIEWER
 JES 11-16-20

PROJECT ID
 109455

SHEET TOTAL
 P.84 P.163



NOTE: SECTIONS SHOWN FOR INFORMATION ONLY. FOR EARTHWORK AND SEEDING QUANTITIES, SEE SR 83 CROSS SECTIONS.

	ITEM 204 - EXCAVATION OF SUBGRADE AND
	ITEM 204 - GRANULAR MATERIAL, TYPE B

DESIGN AGENCY

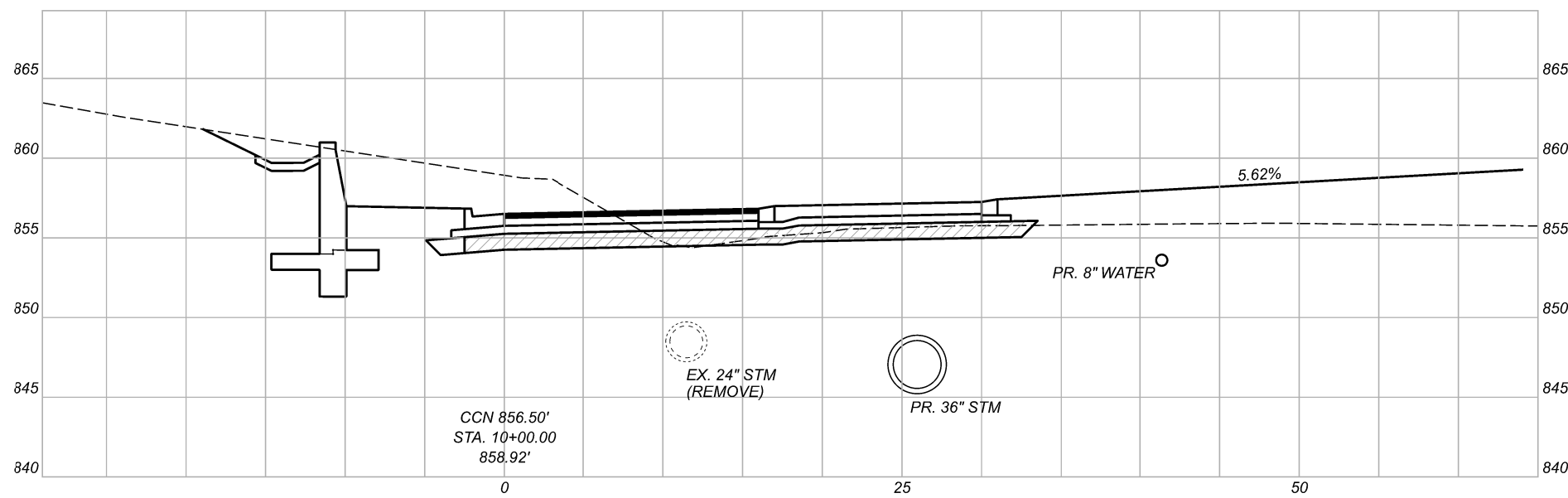
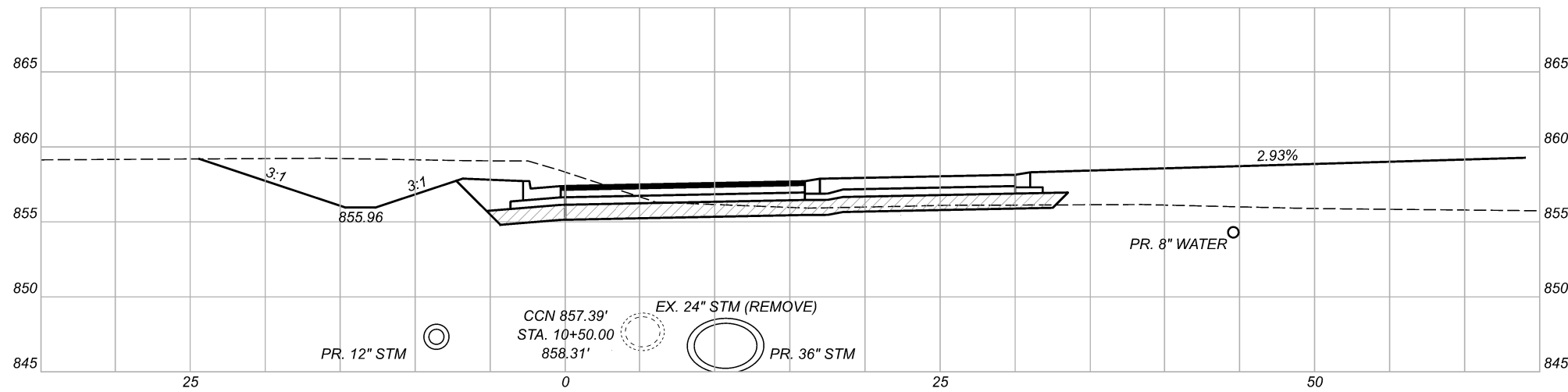
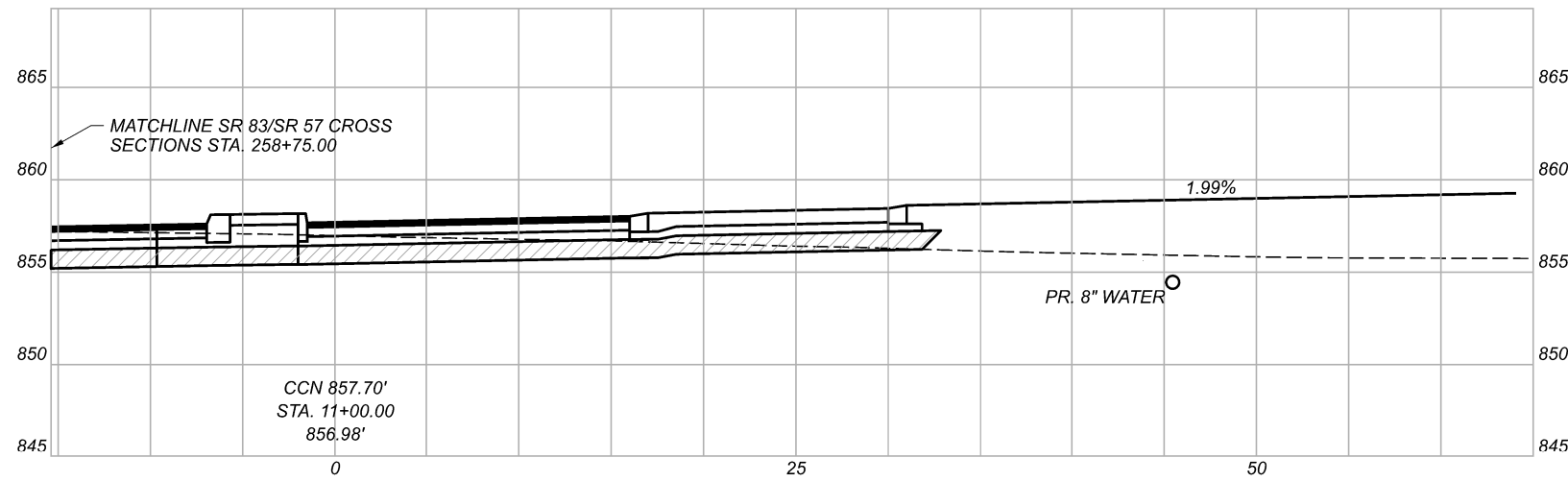
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DESIGNER
JNR

REVIEWER
JES 11-16-20

PROJECT ID
109455

SHEET	TOTAL
P.86	P.163



NOTE: SECTIONS SHOWN FOR INFORMATION ONLY. FOR EARTHWORK AND SEEDING QUANTITIES, SEE SR 83/SR 57 CROSS SECTIONS.

	ITEM 204 - EXCAVATION OF SUBGRADE AND
	ITEM 204 - GRANULAR MATERIAL, TYPE B

DESIGN AGENCY

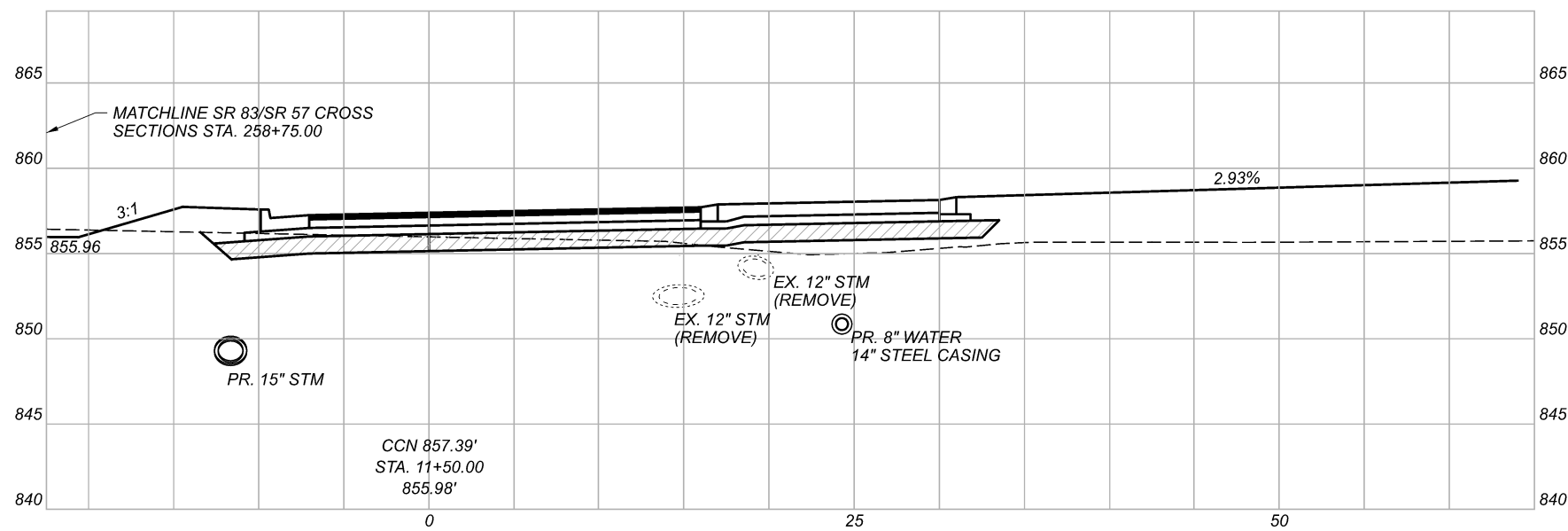
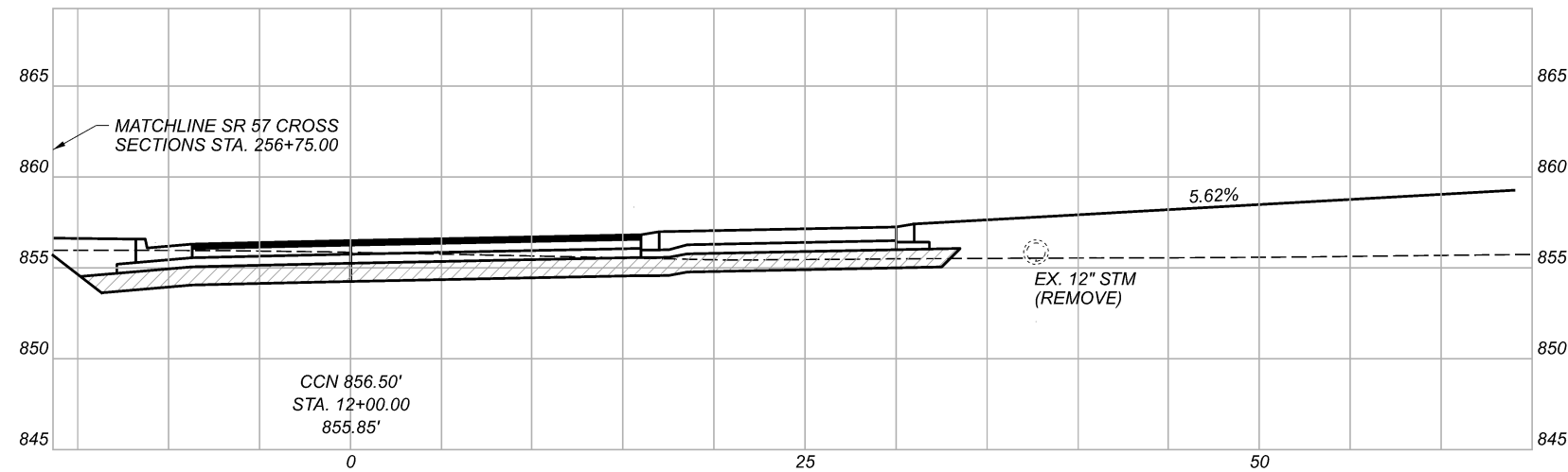
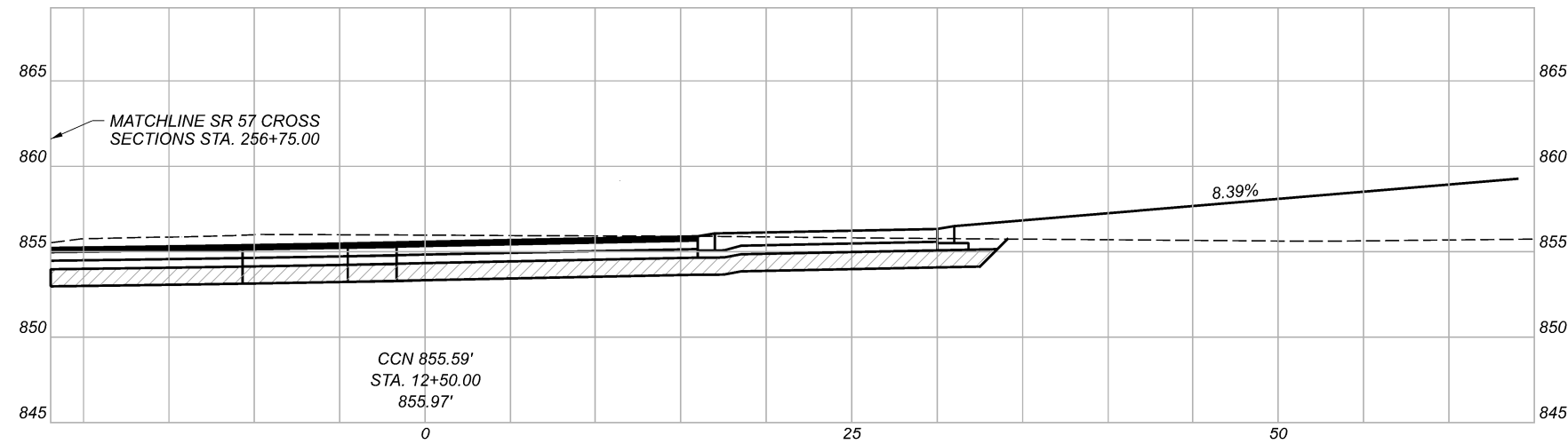
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DESIGNER
JNR

REVIEWER
JES 11-16-20

PROJECT ID
109455

SHEET	TOTAL
P.87	P.163



NOTE: SECTIONS SHOWN FOR INFORMATION ONLY. FOR EARTHWORK AND SEEDING QUANTITIES, SEE SR 83/SR 57 CROSS SECTIONS.

	ITEM 204 - EXCAVATION OF SUBGRADE AND
	ITEM 204 - GRANULAR MATERIAL, TYPE B

DESIGN AGENCY

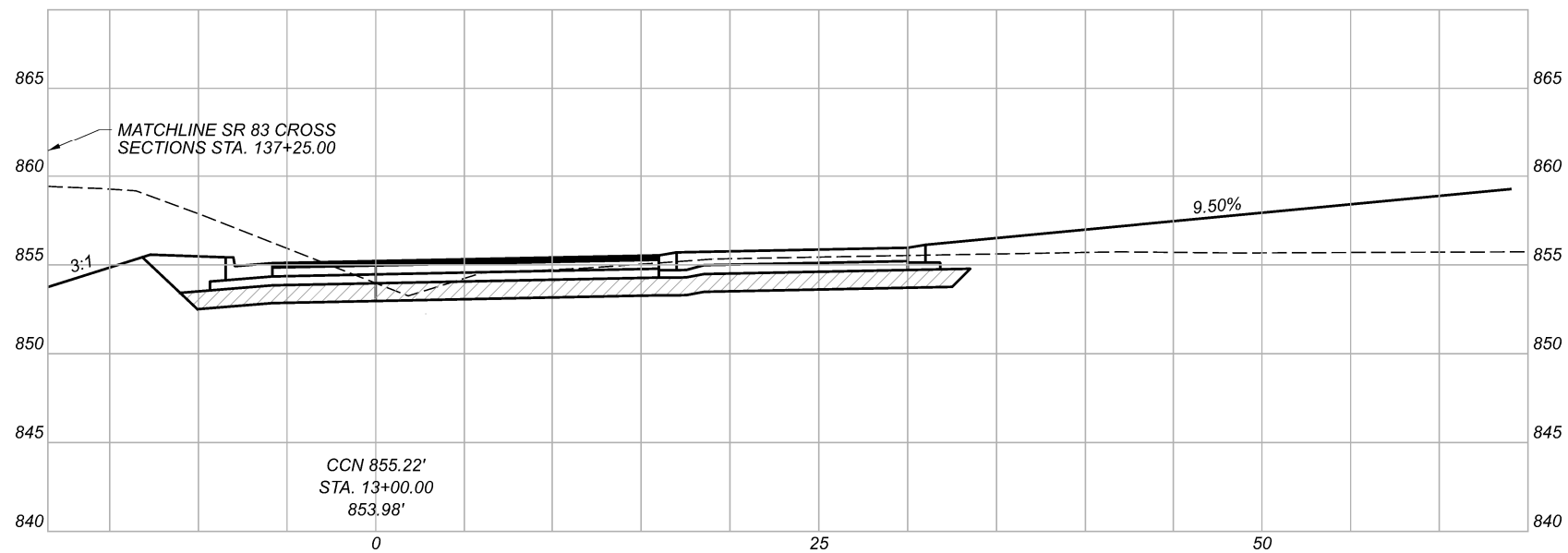
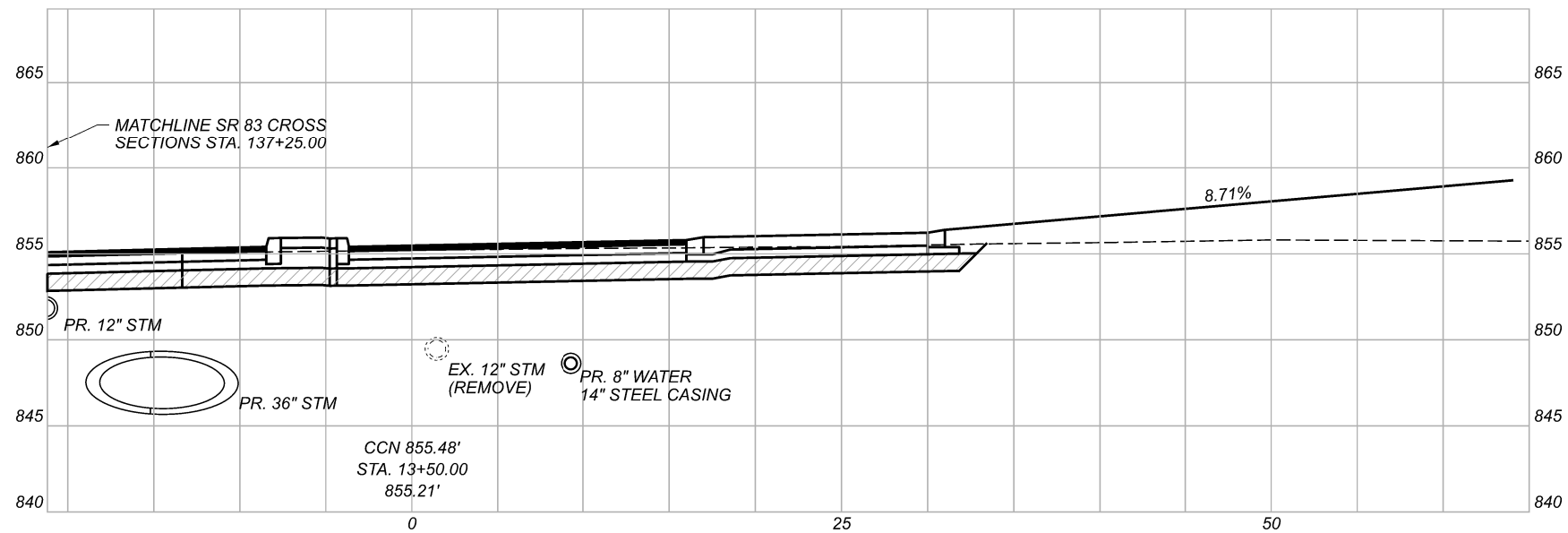
AECOM

DESIGNER
JNR

REVIEWER
JES 11-16-20

PROJECT ID
109455

SHEET	TOTAL
P.88	P.163



NOTE: SECTIONS SHOWN FOR INFORMATION ONLY. FOR EARTHWORK AND SEEDING QUANTITIES, SEE SR 83/SR 57 CROSS SECTIONS.

 ITEM 204 - EXCAVATION OF SUBGRADE AND
 ITEM 204 - GRANULAR MATERIAL, TYPE B

DESIGN AGENCY

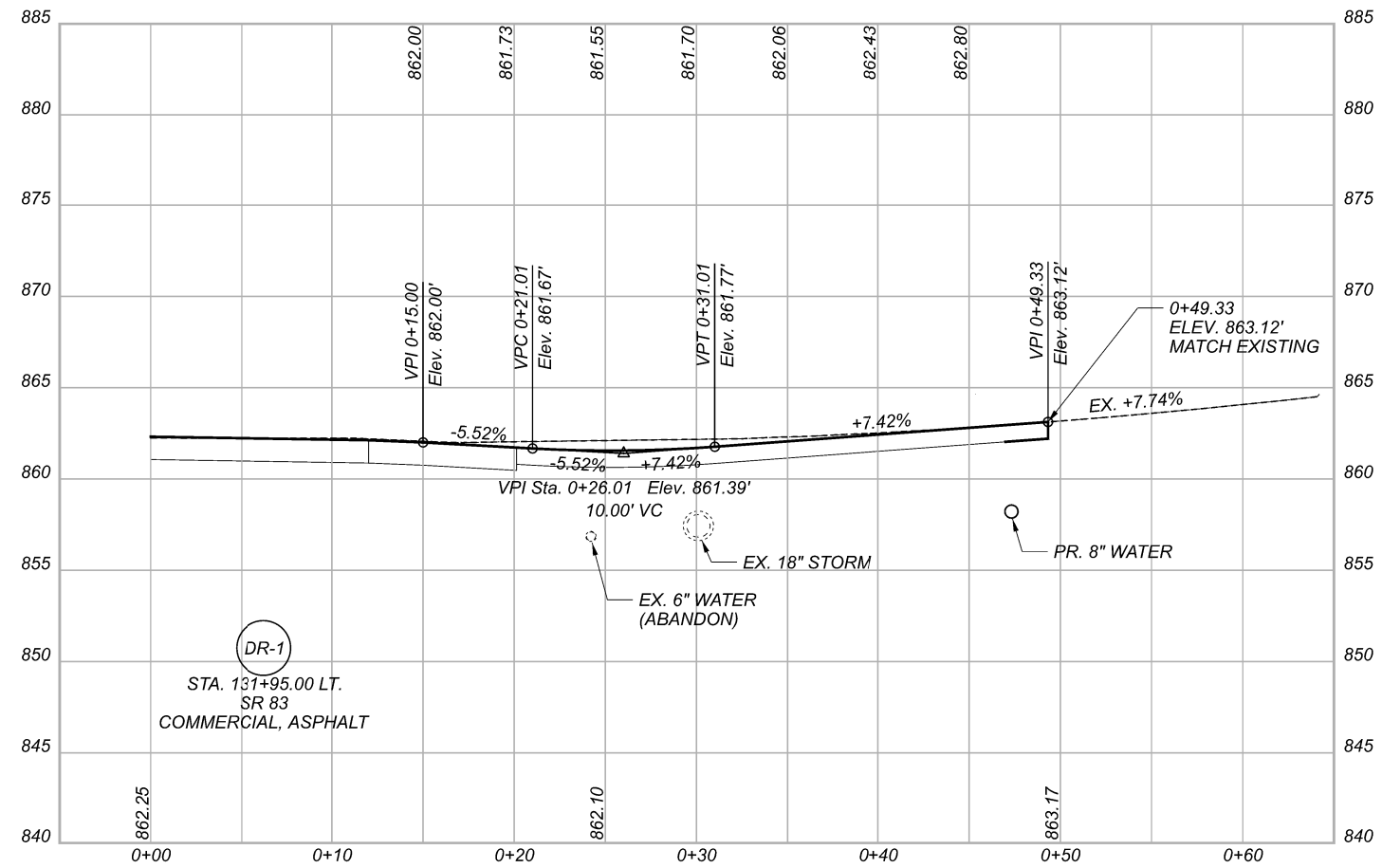
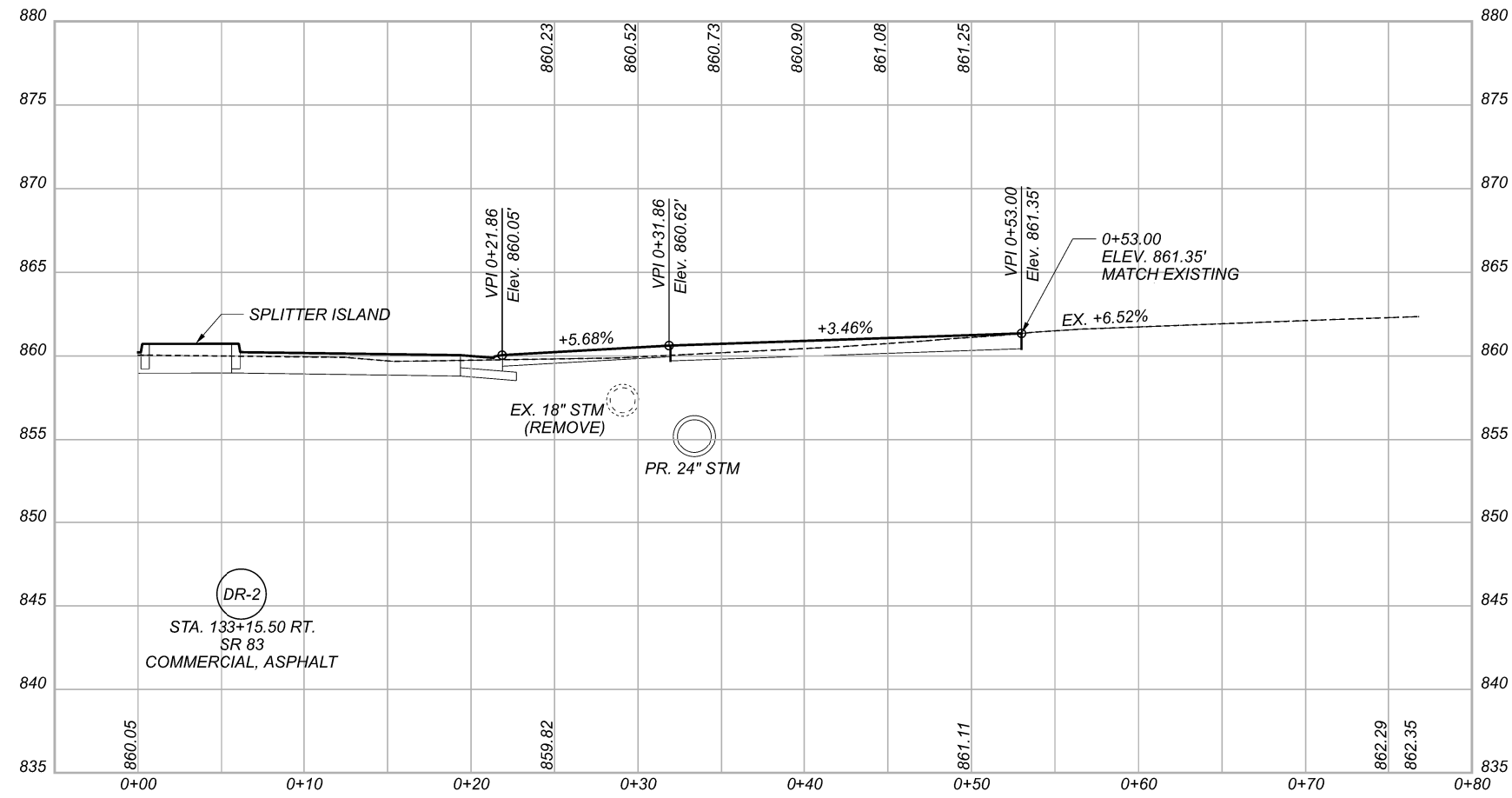
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DESIGNER
 JNR

REVIEWER
 JES 11-16-20

PROJECT ID
 109455

SHEET TOTAL
 P.89 P.163



DRIVE PROFILES
 DRIVE 1 AND DRIVE 2

DESIGN AGENCY

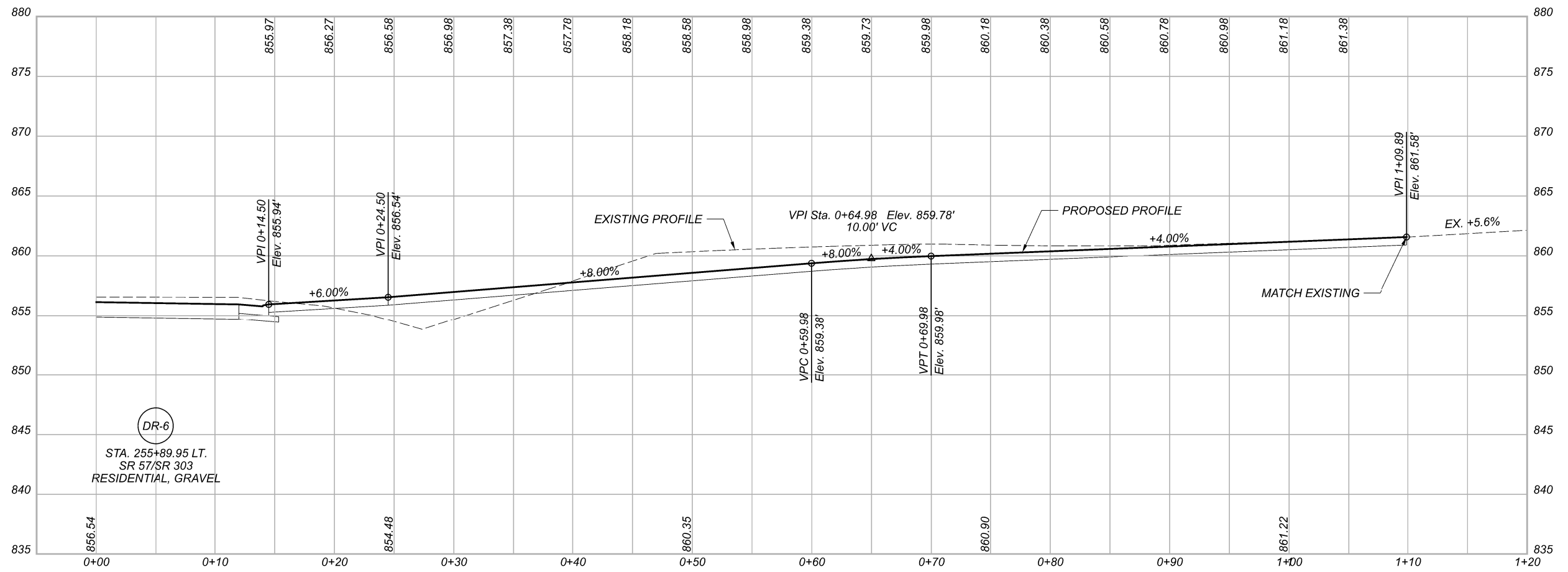


DESIGNER
 RJJ

REVIEWER
 JES 11-16-20

PROJECT ID
 109455

SHEET TOTAL
 P.103 P.163



DRIVE PROFILES
DRIVE 6

DESIGN AGENCY

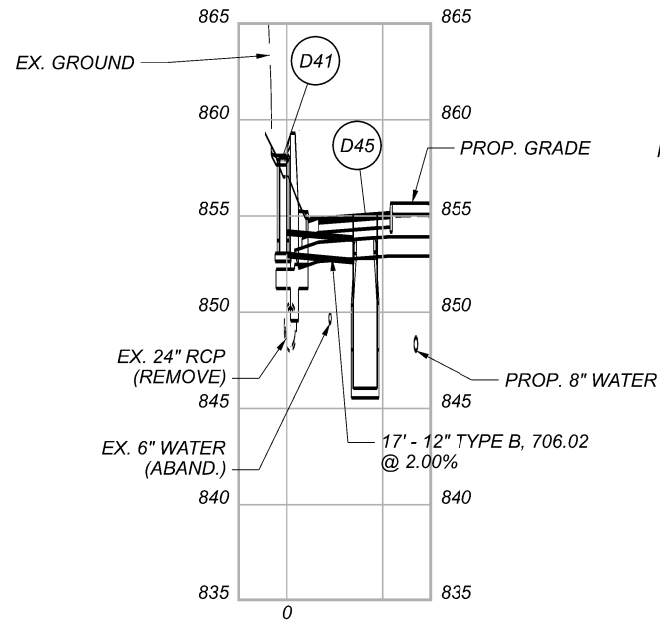


DESIGNER
JNR

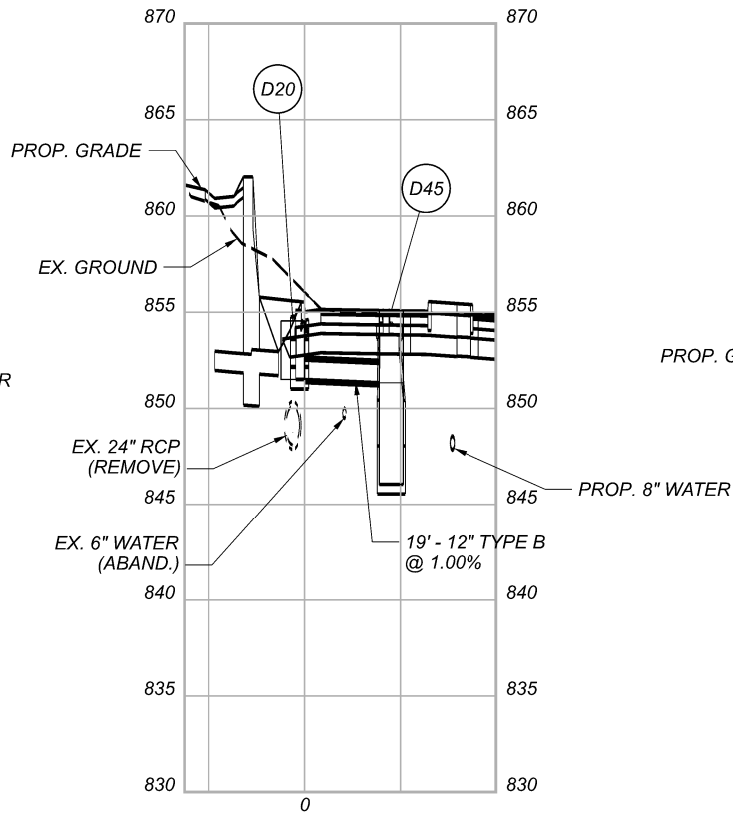
REVIEWER
JES 11-16-20

PROJECT ID
109455

SHEET	TOTAL
P.106	P.163

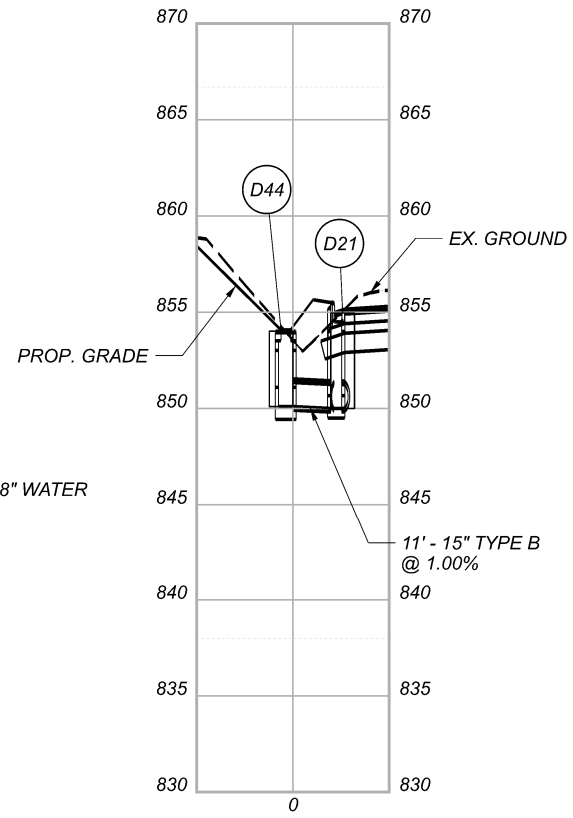


- (D41) PROP. SIDE DITCH INLET
 STA. 137+16.33, 25.74' LT.
 GRATE EL. = 858.15
 E 12" (E) = 853.06
 E 6" (N) = 853.06
- (D45) PROP. MH NO. 3
 STA. 137+22.97, 10.00' LT.
 RIM EL. = 855.08
 E 36" (S) = 846.05
 E 36" (N) = 846.05
 E 12" (W) = 852.74
 E 12" (NW) = 851.34



- (D20) PROP. INLET NO. 3A
 STA. 137+35.10, 24.55' LT.
 GRATE EL. = 855.51
 E 12" (E) = 851.51

(D45) SEE LEFT



- (D44) PROP. CB NO. 2-3
 STA. 256+65.93, 31.36' LT.
 GRATE EL. = 854.02
 E 15" (NW) = 850.10

- (D21) PROP. CB NO. 3
 STA. 256+67.91, 21.36' LT.
 RIM EL. = 854.96
 E 15" (SW) = 850.00
 E 15" (NE) = 850.00
 E 6" (E) = 852.14

DESIGN AGENCY



DESIGNER
 NSP

REVIEWER
 JES 11-16-20

PROJECT ID
 109455

SHEET TOTAL
 P.110 P.163

DESIGN SPECIFICATIONS:

THE STRUCTURES CONFORM TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA:

THE FOLLOWING DESIGN DATA IS ASSUMED FOR WALLS 1 & 2:

- CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI
- REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI
- SOIL INTERNAL ANGLE OF FRICTION = 30 DEGREES
- SOIL COEFFICIENT OF FRICTION (TAN δ) = 0.577
- UNIT WEIGHT OF SOIL = 120 PCF
- SLOPE OF BACKFILL = 2:1 (MAX.)

FOUNDATION BEARING RESISTANCE:

THE WALL FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM SERVICE LIMIT STATE BEARING PRESSURE OF 2.08 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LIMIT STATE BEARING PRESSURE OF 3.02 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 3.50 KIPS PER SQUARE FOOT.

ITEM 503, COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN

SOLDIER PILES AND LAGGING FOR TEMPORARY SHORING BEHIND WALLS 1 & 2 SHALL MEET THE FOLLOWING REQUIREMENTS:

1. W18x158 PILES, ASTM 572 GR 50 STEEL,
2. MAXIMUM CENTER-TO-CENTER PILE SPACING SHALL BE 8'-0" FOR WALL 1, AND 6'-0" FOR WALL 2.
3. ROUGH SAWN TIMBER LAGGING, 4" THICK (NOMINAL) MINIMUM
4. PREBORE 30" DIAMETER HOLES FOR ALL PILES TO THE PILE BOTTOM ELEVATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP TO BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF PILES. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

PREBORED HOLES FOR SOLDIER PILES SHALL BE FILLED WITH CLASS QC5 CONCRETE TO THE MINIMUM ELEVATION SHOWN IN THE TEMPORARY SHORING DETAIL, THIS SHEET. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, VERTICAL ALIGNMENT, AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

PLACE LAGGING SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 5" AT BOTH ENDS OF THE LAGGING. TO PERMIT DRAINAGE, PROVIDE 1/4" TO 1/2" SPACES BETWEEN LAGGING BOARDS USING 3/8" THICK SPACER BLOCKS OR OTHER MEANS ACCEPTABLE TO THE ENGINEER. WAIT AT LEAST 12 HOURS AFTER PLACING CONCRETE BEFORE PLACING LAGGING.

THE INSTALLATION SEQUENCE SHALL BE SUCH THAT NO PREBORED HOLE IS INSTALLED ADJACENT TO EITHER AN OPEN PREBORED HOLE OR A PREBORED HOLE IN WHICH THE CONCRETE HAS LESS THAN A 48-HOUR CURE. INSTALLING THE HOLES IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

CARE SHALL BE EXERCISED AS TO COVER UNATTENDED OPEN HOLES. TEMPORARY COVERS SHALL BE OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. NO PREBORED HOLE SHALL BE LEFT UN-POURED OVERNIGHT.

5. THE TOP AND MINIMUM BOTTOM ELEVATIONS FOR THE PILING SHALL BE AS FOLLOWS:

WALL 1: 863.31 TOP ELEVATION
837.23 MIN. BOTTOM ELEVATION

WALL 2: 862.83 TOP ELEVATION
836.30 MIN. BOTTOM ELEVATION

6. SEE TEMPORARY SHORING WALL DETAIL, THIS SHEET, AND RETAINING WALL SITE PLANS, SHEETS 1/9 AND 2/9, FOR LIMITS OF SHORING.

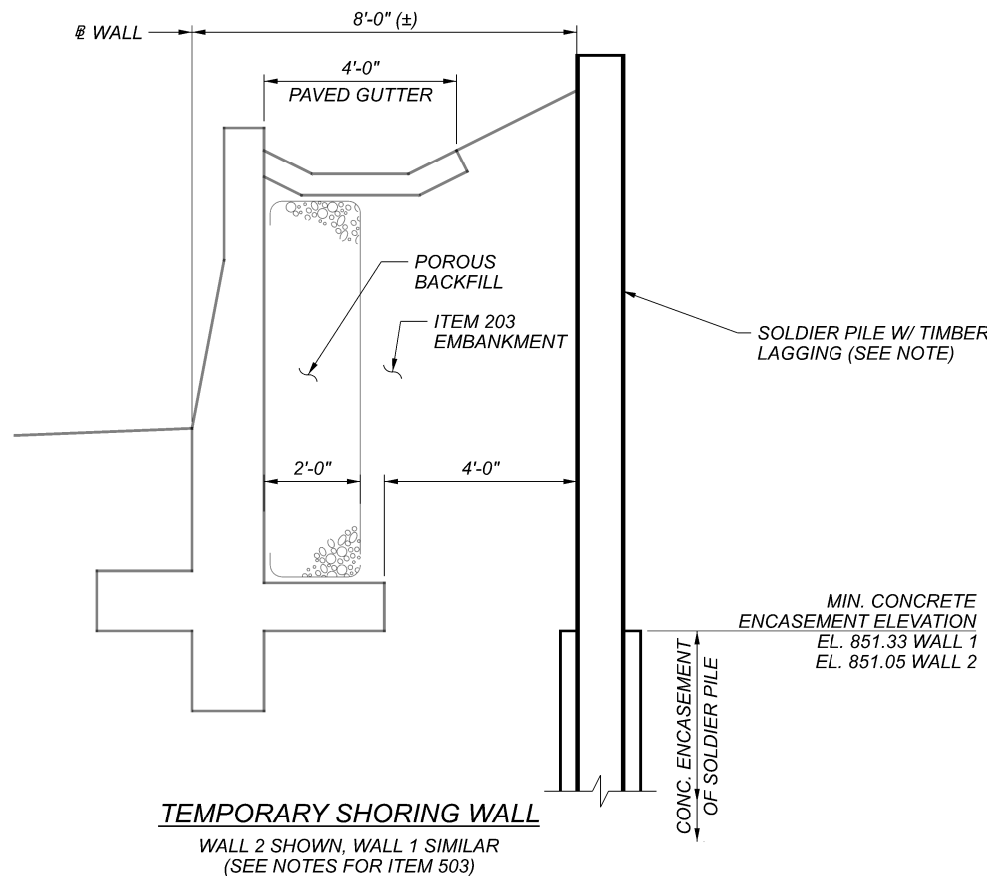
7. PRIOR TO PLACING PILES OR PREBORED HOLES IN THE VICINITY OF THE FIBER OPTIC LINE, CONTRACTOR SHALL LOCATE AND EXPOSE THE LINE. PILES SHALL THEN BE PLACED TO PROVIDE THE MAXIMUM POSSIBLE HORIZONTAL CLEARANCE TO THE LINE. PILE PLACEMENT NEAR THE LINE SHALL OCCUR UNDER THE SUPERVISION OF AN AT&T TECHNICIAN (COORDINATE WITH CRAIG ZAMCHECK, 330-241-1450).

ITEM 503, COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN (CONTINUED)

8. AFTER PERMANENT RETAINING WALLS ARE COMPLETED, TEMPORARY SOLDIER PILES SHALL BE REMOVED A MINIMUM OF 1'-0" BELOW THE FINAL GROUND SURFACE, AND MAY BE REMOVED ABOVE THE CONCRETE ENCASEMENT ELEVATION.
9. ODOT CMS 501.05.B.1 IS MODIFIED AS FOLLOWS: AN ALTERNATE DESIGN WILL NOT BE CONSIDERED BY THE DEPARTMENT.
10. PAYMENT WILL BE MADE AT THE CONTRACT LUMP SUM PRICE FOR ITEM 503, COFFERDAMS AND EXCAVATION BRACING, WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

ITEM 503, ROCK EXCAVATION, AS PER PLAN

IF COMPETANT ROCK IS FOUND AT LEAST 1'-0" ABOVE THE BOTTOM OF FOOTING ELEVATION SHOWN IN THE PLANS, THE BOTTOM OF FOOTING MAY BE PLACED 3" BELOW THE TOP OF ROCK ELEVATION FOUND IN THE FIELD. REINFORCING DETAILS REQUIRED TO ACCOMODATE THE NEW BOTTOM OF FOOTING ELEVATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.



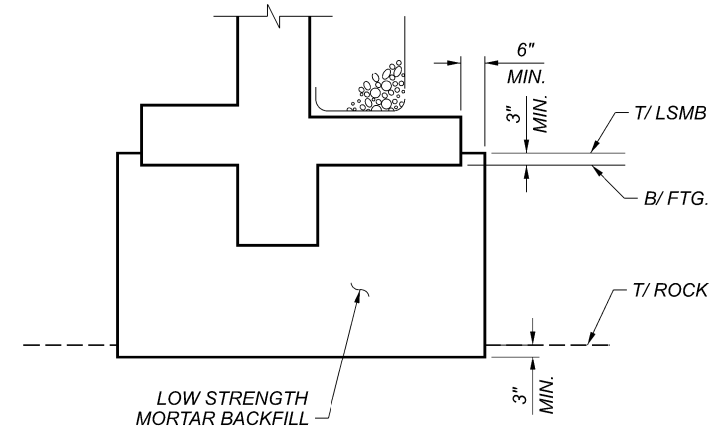
TEMPORARY SHORING WALL

WALL 2 SHOWN, WALL 1 SIMILAR (SEE NOTES FOR ITEM 503)

ITEM 518, LOW STRENGTH MORTAR BACKFILL, AS PER PLAN

THIS WORK SHALL CONSIST OF THE PLACEMENT OF A FLOWABLE MATERIAL WITH AN EXPECTED 28 DAY UNCONFINED COMPRESSIVE STRENGTH BETWEEN 50 AND 100 PSI.

IN LOCATIONS WHERE PROPOSED WALL FOOTINGS DO NOT EXTEND AT LEAST 3" INTO ROCK, PLACE LOW STRENGTH MORTAR BACKFILL AS SHOWN IN THE DETAIL BELOW.



LIMITS OF LOW STRENGTH MORTAR BACKFILL

NOT TO SCALE

ABBREVIATIONS:

APPROX.	APPROXIMATE	MIN.	MINIMUM
BOT.	BOTTOM	N.F.	NEAR FACE
B/	BOTTOM	P.C.P.P.	PERFORATED CORRUGATED PLASTIC PIPE
Ⓢ	CENTERLINE	P.E.J.F.	PREFORMED EXPANSION JOINT FILLER
CLR	CLEAR	RT.	RIGHT
CONC.	CONCRETE	SER.	SERIES
D.N.D.	DO NOT DISTURB	SPA.	SPACES/SPACED
DIA.	DIAMETER	STA.	STATION
EL.	ELEVATION	TEMP.	TEMPORARY
EX.	EXISTING	TYP.	TYPICAL
F.F.	FAR FACE	T/	TOP
L.S.M.B	LOW STRENGTH MORTAR BACKFILL	U.N.O.	UNLESS NOTED OTHERWISE
LT.	LEFT	W/	WITH
MAX.	MAXIMUM		

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	WALL 1	WALL 2	GEN.	REF. SHEET
503	11101	1	LS	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN			1	SHEET 3/9
503	21100	596	CY	UNCLASSIFIED EXCAVATION	209	387		
503	31101	76	CY	ROCK EXCAVATION, AS PER PLAN	74	2		
509	10000	19608	LB	EPOXY COATED REINFORCING STEEL	10807	8801		
511	46212	175	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL INCLUDING FOOTING	99	76		
512	10050	159	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	83	76		
512	33000	20	SY	TYPE 2 WATERPROOFING	11	9		
516	13200	123	SF	1/2" PREFORMED EXPANSION JOINT FILLER	70	53		
516	13600	49	SF	1" PREFORMED EXPANSION JOINT FILLER	24	25		
518	21200	138	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	76	62		
518	40000	251	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	139	112		
613	41201	51	CY	LOW STRENGTH MORTAR BACKFILL, AS PER PLAN		51		SHEET 3/9

LOR-83-2.48

MODEL: Sheet: PAPER/DATE: 17x11 (in.) DATE: 4/6/2022 TIME: 11:58:43 AM USER: michael.j.thompson p:\aecom-na-pw-bentley.com\AECOM_DS16_NA\Documents\60608709-LOR-83-255\109455_LOR-83-255-400-Engineering\Roadway\Sheets\109455_VN001.dgn

GENERAL NOTES AND ESTIMATED QUANTITIES
ALL STRUCTURES

SFN

N/A

DESIGN AGENCY

AECOM

DESIGNER CHECKER

KSCT TMB

REVIEWER

MRW 8/30/21

PROJECT ID

109455

SUBSET TOTAL

3 9

SHEET TOTAL

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REF NO.	SHEET NO.	STATION TO STATION		202	202	202	638	SPECIAL	SPECIAL	SPECIAL	638	638									
			TO	EACH	EACH	EACH	FT	FT	FT	EACH	FT	FT									
WW1	P.129	10+05.00	10+39.00				34														
WW2	P.129	10+03.00	15+00.00					463		34											
WW3	P.130	15+00.00	18+78.00					378													
WW4	P.130	15+19.56							1												
WW5	P.131	23+52.65	24+81.05				55				129										
WW6	P.131	24+81.05	27+95.54				280				315										
WW7	P.131	27+95.54	28+87.67				50				92										
WW8		NOT USED																			
WW9		NOT USED																			
WW10		NOT USED																			
WW11	P.133	29+84.00	32+80.00					296													
R1	P.129	876+08.00	LT			1															
R2	P.129	876+76.00	LT		2	1															
R3	P.130	133+13.00	LT		1	1															
R4	P.131	258+15.00	LT		2	1															
R5	P.133	260+32.00	RT	1																	
R6	P.133	260+37.00	LT		1																
R7	P.131	136+30.56	LT	137+00.39	LT						70										
TOTALS CARRIED TO GENERAL SUMMARY				1	6	4	419	1137	34	1	536	70									

WATERLINE SUB-SUMMARY

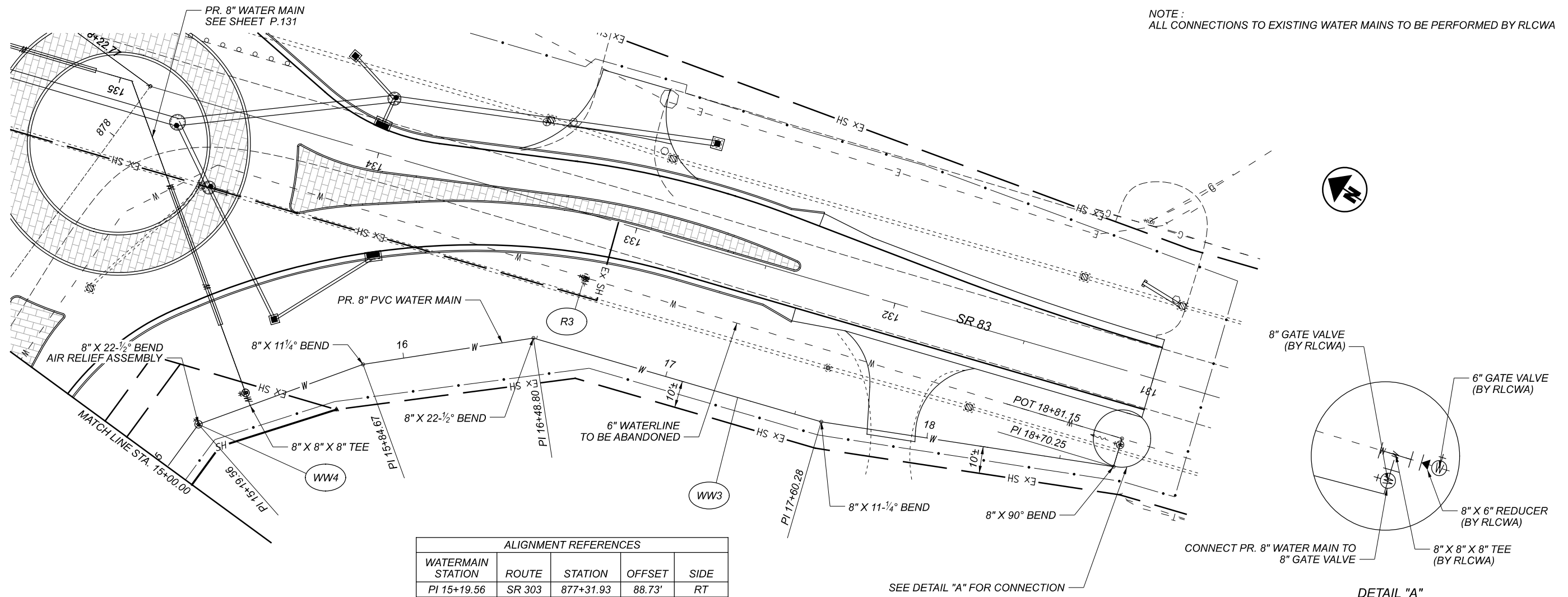
DESIGN AGENCY
AECOM

DESIGNER
 JNR

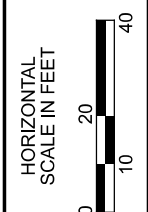
REVIEWER
 JES 11-16-20

PROJECT ID
 109455

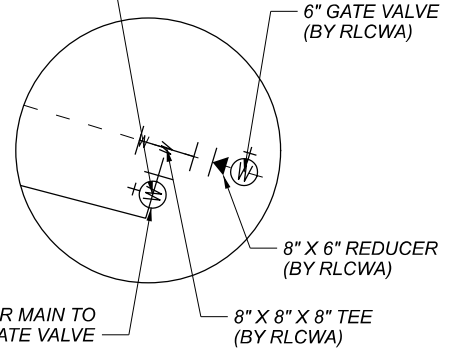
SHEET TOTAL
 P.125 P.163



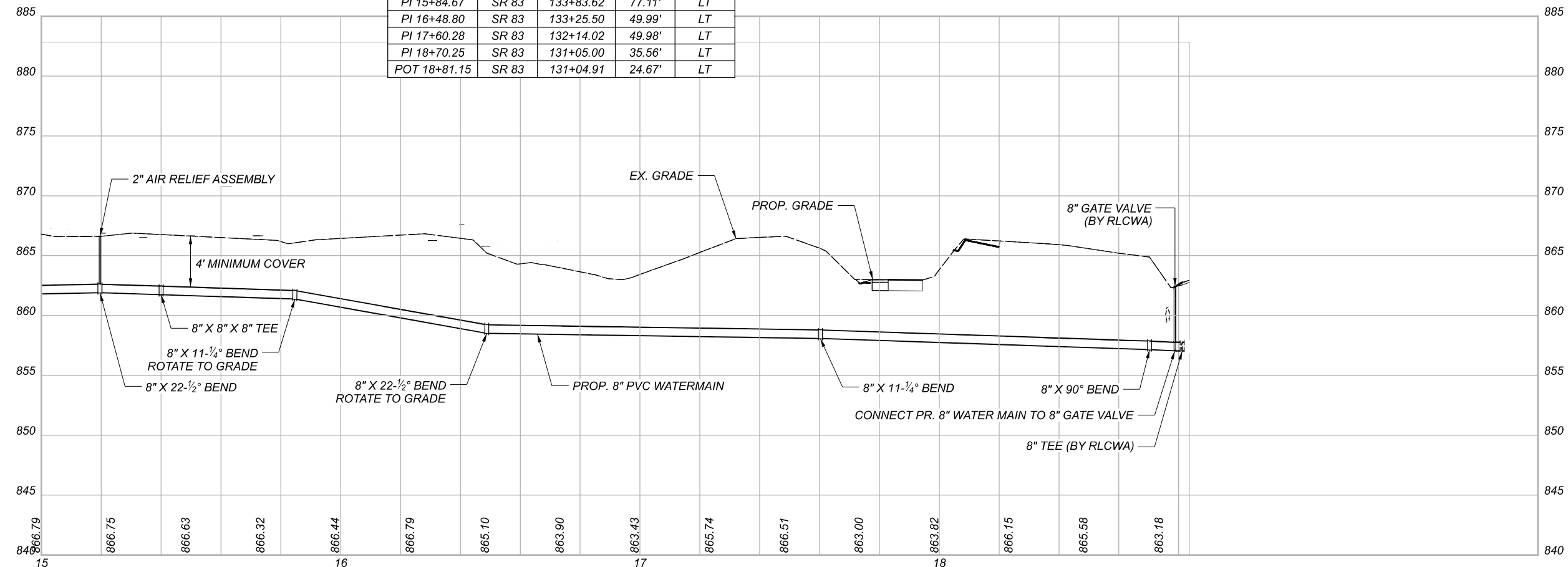
NOTE:
ALL CONNECTIONS TO EXISTING WATER MAINS TO BE PERFORMED BY RLCWA



ALIGNMENT REFERENCES				
WATERMAIN STATION	ROUTE	STATION	OFFSET	SIDE
PI 15+19.56	SR 303	877+31.93	88.73'	RT
PI 15+84.67	SR 83	133+83.62	77.11'	LT
PI 16+48.80	SR 83	133+25.50	49.99'	LT
PI 17+60.28	SR 83	132+14.02	49.98'	LT
PI 18+70.25	SR 83	131+05.00	35.56'	LT
POT 18+81.15	SR 83	131+04.91	24.67'	LT



SEE DETAIL "A" FOR CONNECTION

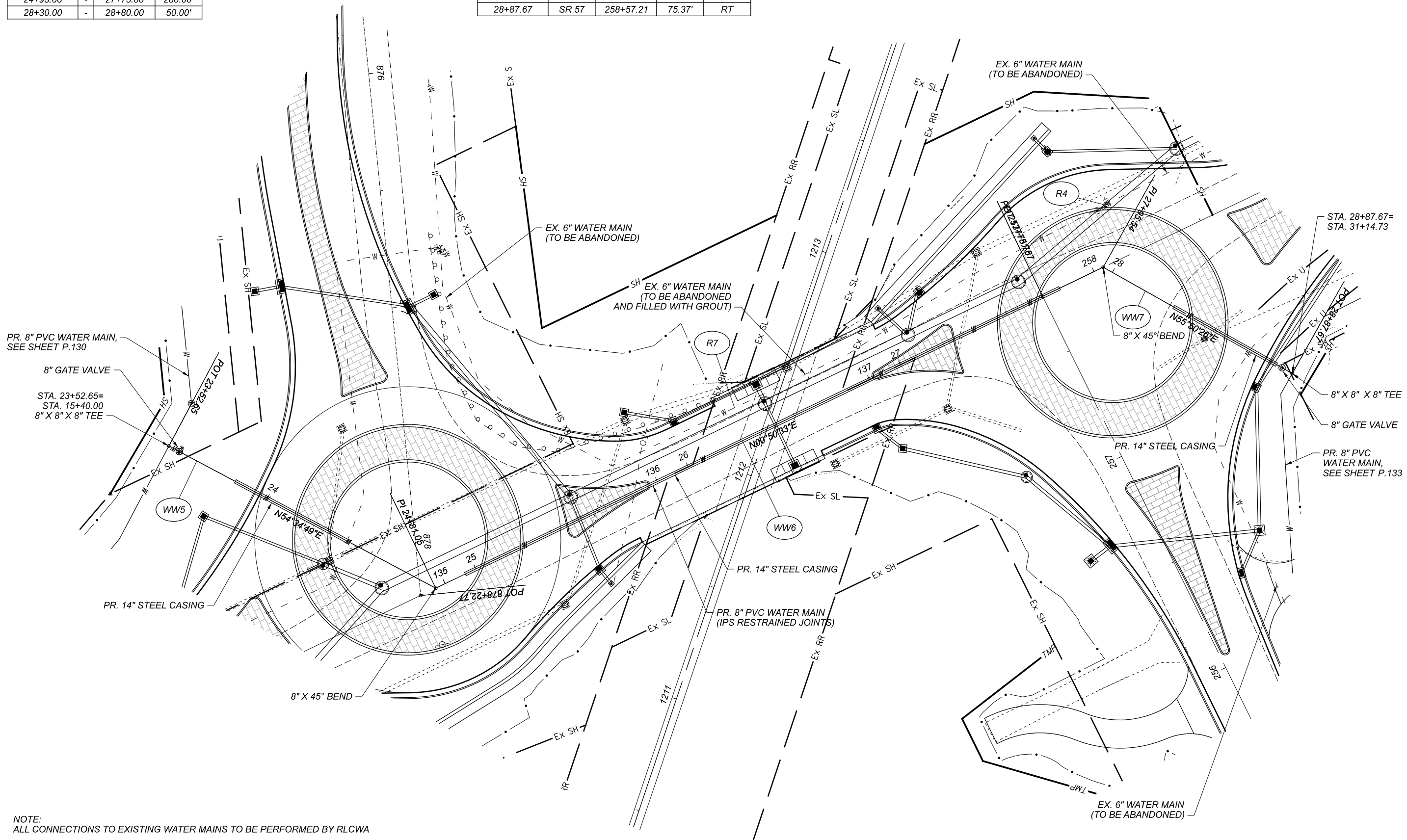
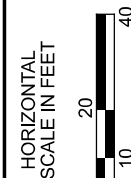


WATER WORK PLAN AND PROFILE
 STA. 15+00.00 TO STA. 18+81.15

DESIGN AGENCY	
AECOM	
DESIGNER	JNR
REVIEWER	JES 11-16-20
PROJECT ID	109455
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14" STEEL CASING LIMITS			
STATION		STATION	LENGTH
23+84.63	-	24+39.63	55.00'
24+95.00	-	27+75.00	280.00'
28+30.00	-	28+80.00	50.00'

ALIGNMENT REFERENCES				
WATERMAIN STATION	ROUTE	STATION	OFFSET	SIDE
23+52.65	SR 83	134+19.63	103.53'	LT
24+81.05	SR 83	134+95.57	0.00'	℄
27+95.54	SR 57	258+04.28	0.00'	℄
28+87.67	SR 57	258+57.21	75.37'	RT



NOTE:
 ALL CONNECTIONS TO EXISTING WATER MAINS TO BE PERFORMED BY RLCWA

WATER WORK PLAN
 STA. 23+52.65 TO STA. 28+87.67

DESIGN AGENCY

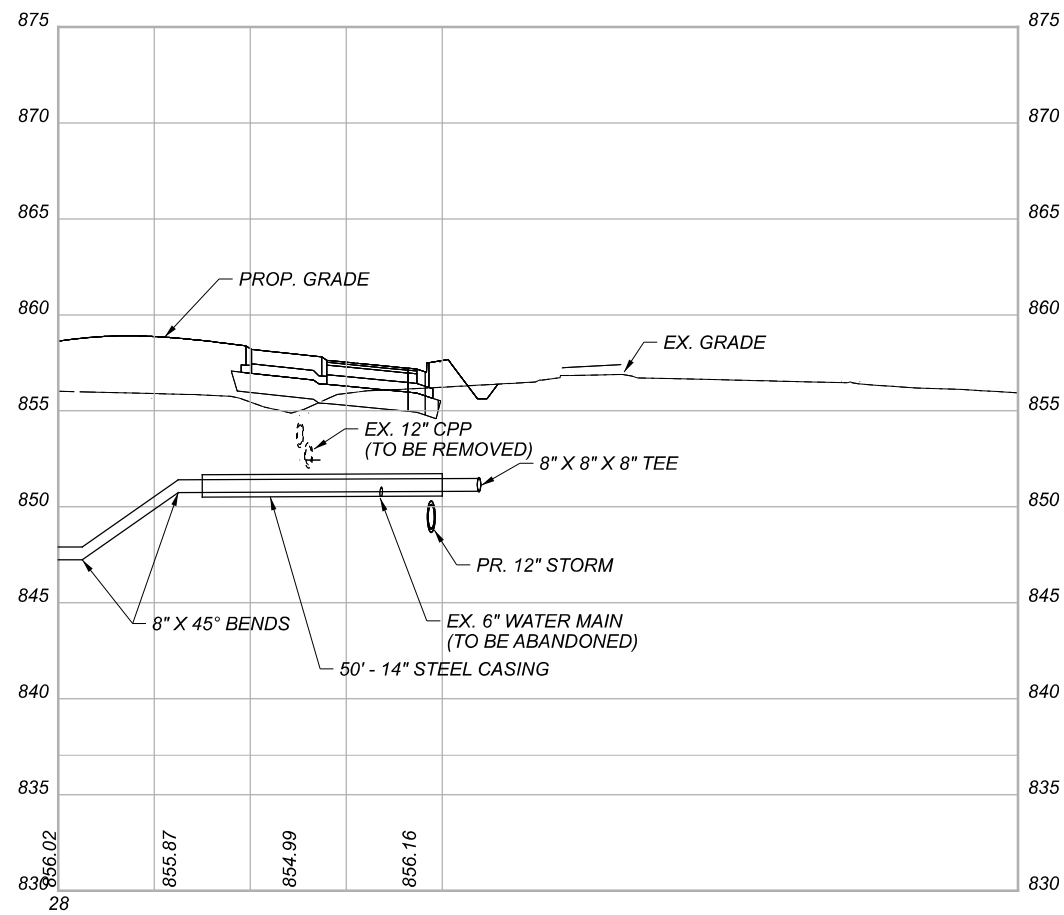
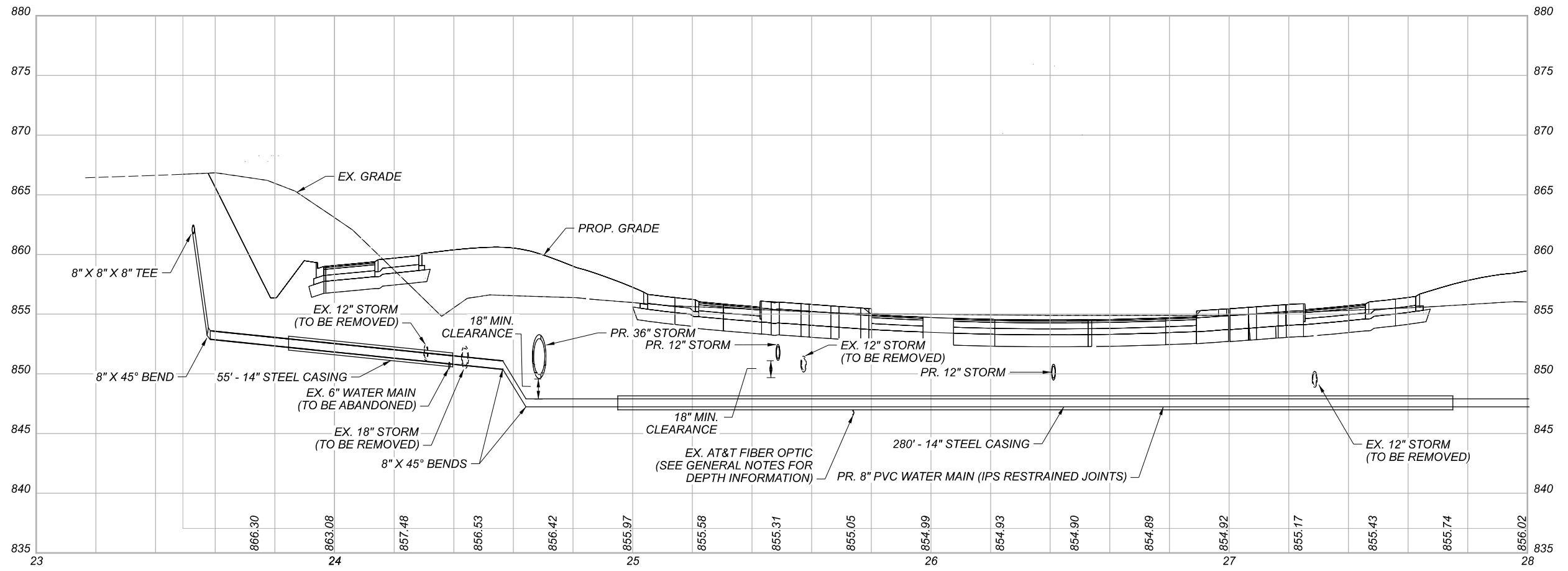


DESIGNER
 MJT

REVIEWER
 JNR 4-1-22

PROJECT ID
 109455

SHEET TOTAL
 P.131 P.163



WATER WORK PROFILE
 STA. 23+52.65 TO STA. 28+87.67

DESIGN AGENCY

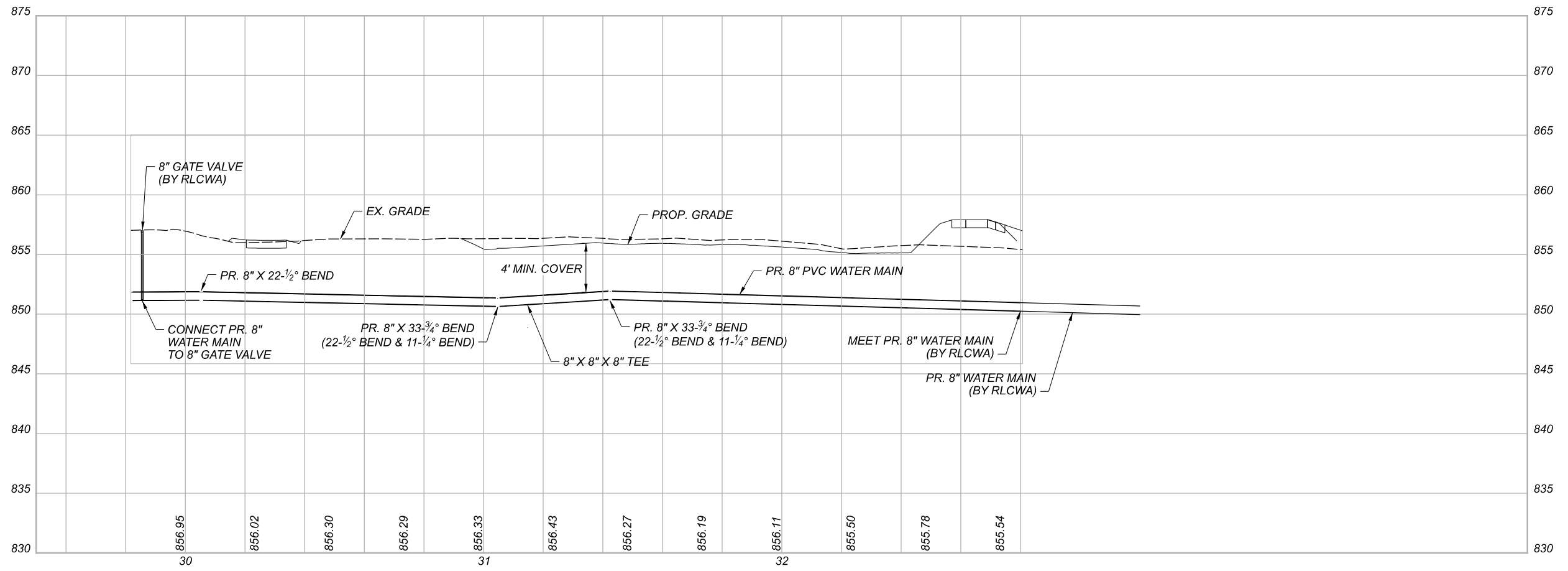


DESIGNER
 MJT

REVIEWER
 JNR 4-1-22

PROJECT ID
 109455

SHEET TOTAL
 P.132 P.163



WATER WORK PROFILE
 STA. 29+81.69 TO ENDING

DESIGN AGENCY

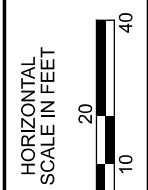
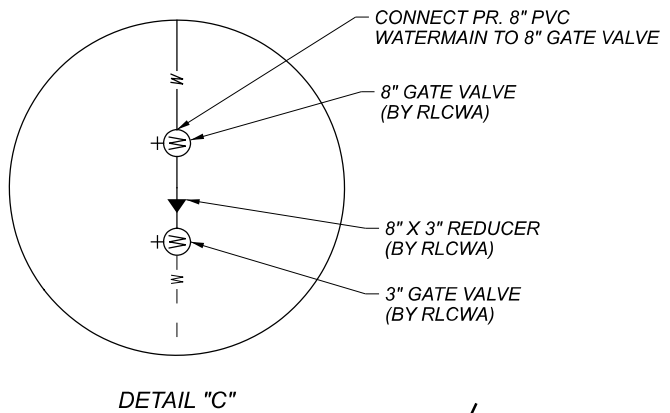
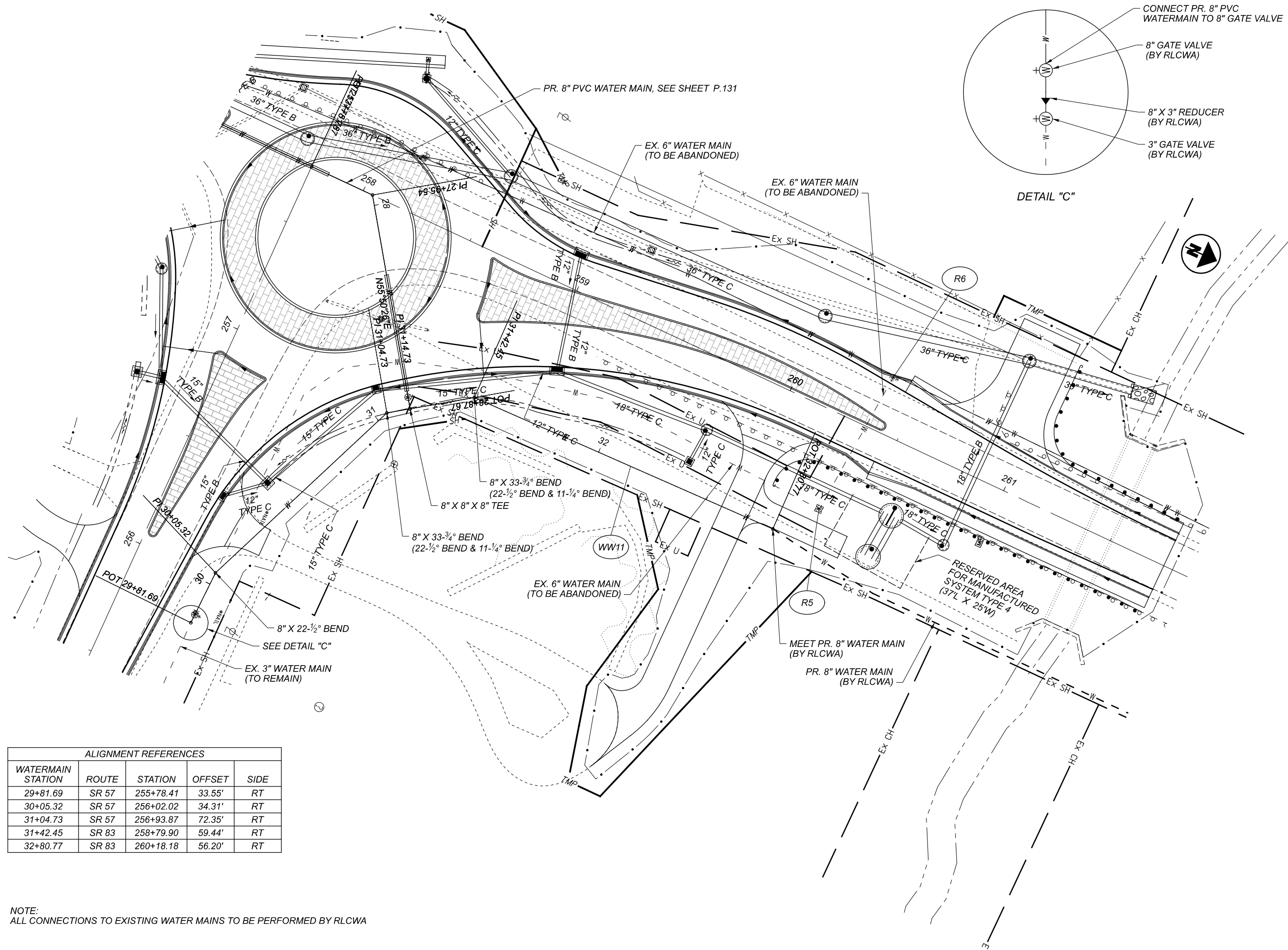


DESIGNER
 MJT

REVIEWER
 JNR 4-1-22

PROJECT ID
 109455

SHEET TOTAL
 P.133A P.163



WATER WORK PLAN
 STA. 29+81.69 TO ENDING

ALIGNMENT REFERENCES				
WATERMAIN STATION	ROUTE	STATION	OFFSET	SIDE
29+81.69	SR 57	255+78.41	33.55'	RT
30+05.32	SR 57	256+02.02	34.31'	RT
31+04.73	SR 57	256+93.87	72.35'	RT
31+42.45	SR 83	258+79.90	59.44'	RT
32+80.77	SR 83	260+18.18	56.20'	RT

NOTE:
 ALL CONNECTIONS TO EXISTING WATER MAINS TO BE PERFORMED BY RLCWA

DESIGN AGENCY

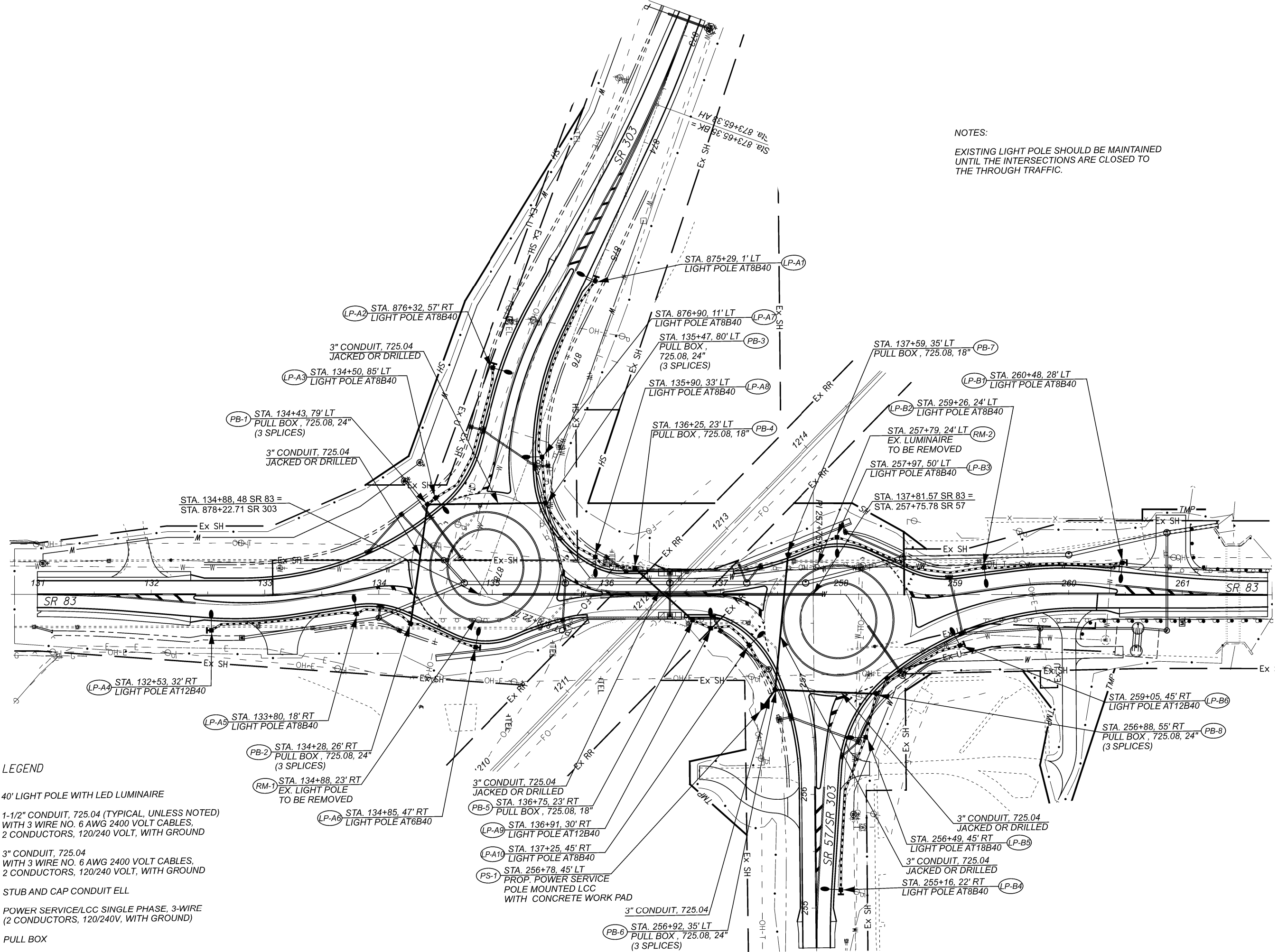
AECOM

DESIGNER
 MJT

REVIEWER
 JNR 4-4-22

PROJECT ID
 109455

SHEET TOTAL
 P.133 P.163



NOTES:
EXISTING LIGHT POLE SHOULD BE MAINTAINED UNTIL THE INTERSECTIONS ARE CLOSED TO THE THROUGH TRAFFIC.

LEGEND

- 40' LIGHT POLE WITH LED LUMINAIRE
- 1-1/2" CONDUIT, 725.04 (TYPICAL, UNLESS NOTED) WITH 3 WIRE NO. 6 AWG 2400 VOLT CABLES, 2 CONDUCTORS, 120/240 VOLT, WITH GROUND
- 3" CONDUIT, 725.04 WITH 3 WIRE NO. 6 AWG 2400 VOLT CABLES, 2 CONDUCTORS, 120/240 VOLT, WITH GROUND
- ⊥ STUB AND CAP CONDUIT ELL
- ▲ POWER SERVICE/LCC SINGLE PHASE, 3-WIRE (2 CONDUCTORS, 120/240V, WITH GROUND)
- ▣ PULL BOX



LIGHTING PLAN

DESIGN AGENCY



DESIGNER
CX

REVIEWER
JES 11-16-20

PROJECT ID
109455

SHEET TOTAL
P.148 P.163