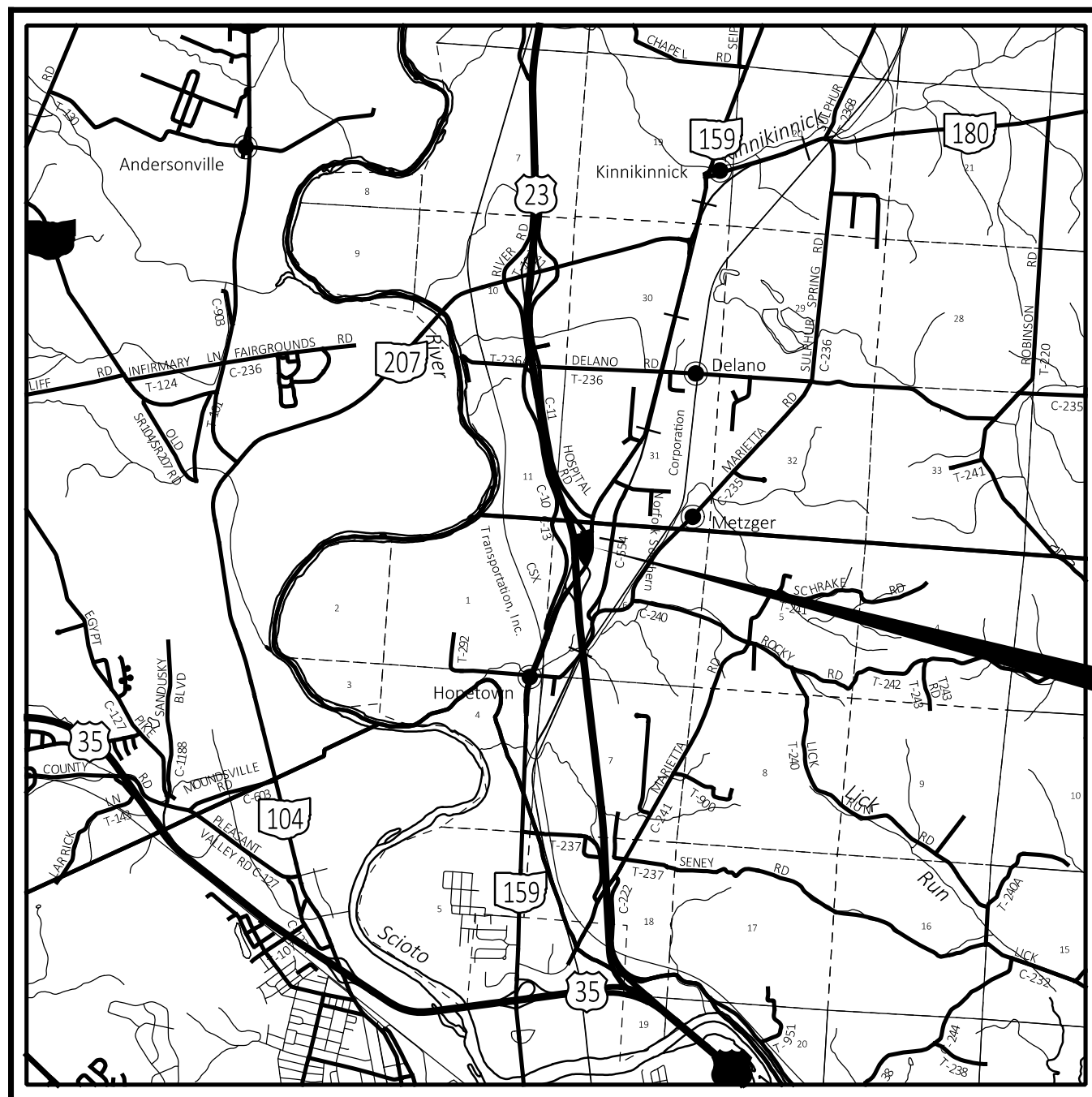


# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## ROS-US23/SR159 INTERCHANGE TP

ROSS COUNTY



LOCATION MAP

LATITUDE: 39°23'28" LONGITUDE: -82°58'8"



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

### DESIGN DESIGNATION

CURRENT ADT (2025)	17,500
DESIGN YEAR ADT (2047)	25,500
DESIGN HOURLY VOLUME (20 )	
DIRECTIONAL DISTRIBUTION	
TRUCKS (24 HOUR B&C)	6%
DESIGN SPEED	60 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	URBAN MINOR ARTERIAL
NHS PROJECT	NO

### DESIGN EXCEPTIONS

NONE

### ADA DESIGN WAIVERS

NONE

### UNDERGROUND UTILITIES

Contact Two Working Days  
Before You Dig



OHIO811, 8-1-1, or 1-800-362-2764  
(Non members must be called directly)

PLAN PREPARED BY:



471 East Broad Street, Suite 2010  
Columbus, OH, 43215  
518.453.4500 • www.ch2m.com

### INDEX OF SHEETS:

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STANDARD CONSTRUCTION DRAWINGS							SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS	
BP-2.1	1/21/22	RM-1.1	7/18/25	HL-20.21	7/18/25	MT-105.10	1/17/20	800-2023 7/18/25	
BP-2.2	1/15/21	RM-5.1	7/18/14	HL-30.11	7/21/23			803 1/21/22	
BP-3.1	1/19/24	RM-6.1	7/18/14	HL-30.21	4/17/20	TC-41.10	7/19/13	812 10/16/20	
BP-3.2	1/18/19			HL-30.22	1/17/25	TC-41.20	10/18/13	832 7/18/25	2
BP-5.1	7/18/25	WQ-1.1	7/21/23	HL-40.10	7/19/24	TC-41.30	4/21/23	838 7/18/25	
BP-7.1	7/18/25	WQ-1.2	1/15/16	HL-40.20	7/18/25	TC-42.10	10/18/13	878 1/21/22	
CB-2-3, 2-4	7/19/24	HW-1.1	7/18/25	HL-60.11	7/21/17	TC-42.20	10/18/13		
CB-3	7/19/24	HW-2.1	7/15/22	HL-60.12	7/21/23	TC-51.11	7/18/25		
		HW-2.2	7/20/18	HL-60.21	7/20/18	TC-51.12	7/18/25		
				HL-60.31	7/19/24	TC-52.10	10/18/13		
DM-1.1	1/17/25					TC-52.20	1/15/21		
DM-1.2	1/17/25	HL-10.11	7/21/23	MT-97.10	7/18/25	TC-71.10	7/18/25		
DM-4.3	1/15/16	HL-10.12	7/21/23	MT-99.30	1/17/20				
DM-4.4	1/15/16	HL-10.13	1/20/23	MT-101.60	1/17/25				
		HL-10.31	7/18/25	MT-102.20	4/19/19				
MH-3	7/19/24	HL-20.11	7/18/25	MT-103.10	7/18/25				

### FEDERAL PROJECT NUMBER

NON-FEDERAL

### RAILROAD INVOLVEMENT

NONE

2

### PROJECT DESCRIPTION

THE DESIGN OF A NEW PARKING LOT AND FACILITIES TO ACCOMMODATE WB-67 TRUCKS. SITE CONSIDERATION SUCH AS NEW PAVEMENT, DRAINAGE, LIGHTING AND DUMPSTER INCLUDED.

### EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	6.00 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	4.00 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	10.00 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.

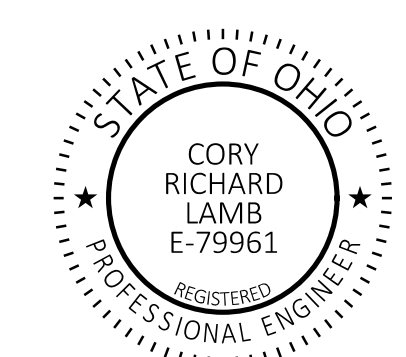
### 2023 SPECIFICATIONS

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.

*Michael G. Dombrowski*  
Michael G. Dombrowski  
District 09 Deputy Director

*Pamela Boratyn*  
Pamela Boratyn  
Director, Department of Transportation



TITLE SHEET

DESIGN AGENCY

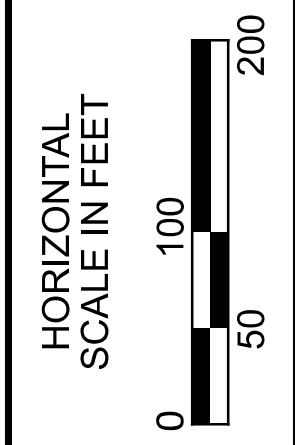


DESIGNER  
US  
REVIEWER  
MAH 01/12/26  
PROJECT ID  
122886  
SHEET TOTAL  
P.01 46

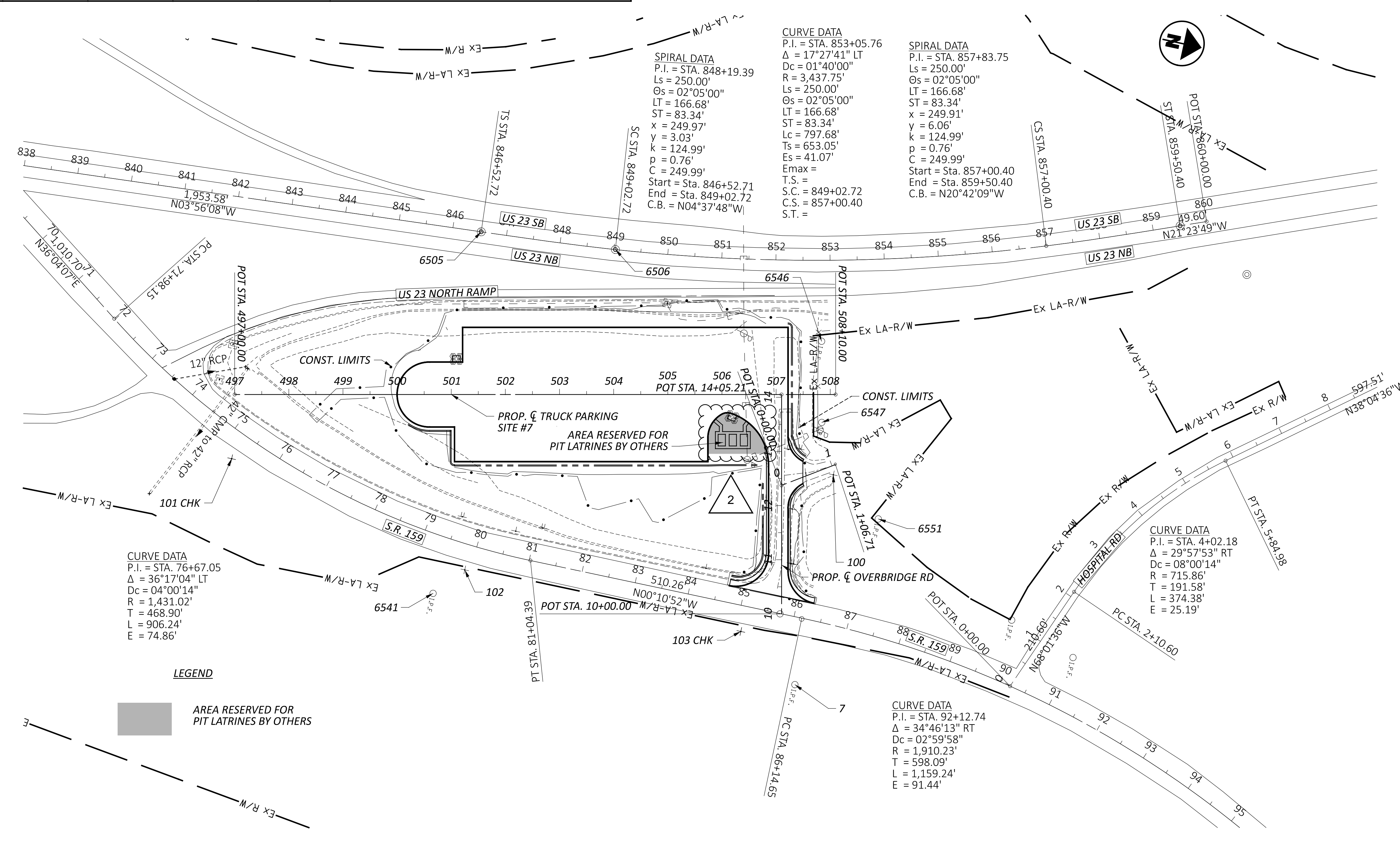
ROS-US23/SR159 INTERCHANGE TP

MODEL: Sheet PAPER: 34x22 (in.) DATE: 3/17/2026 TIME: 9:57:22 AM USER: 9499  
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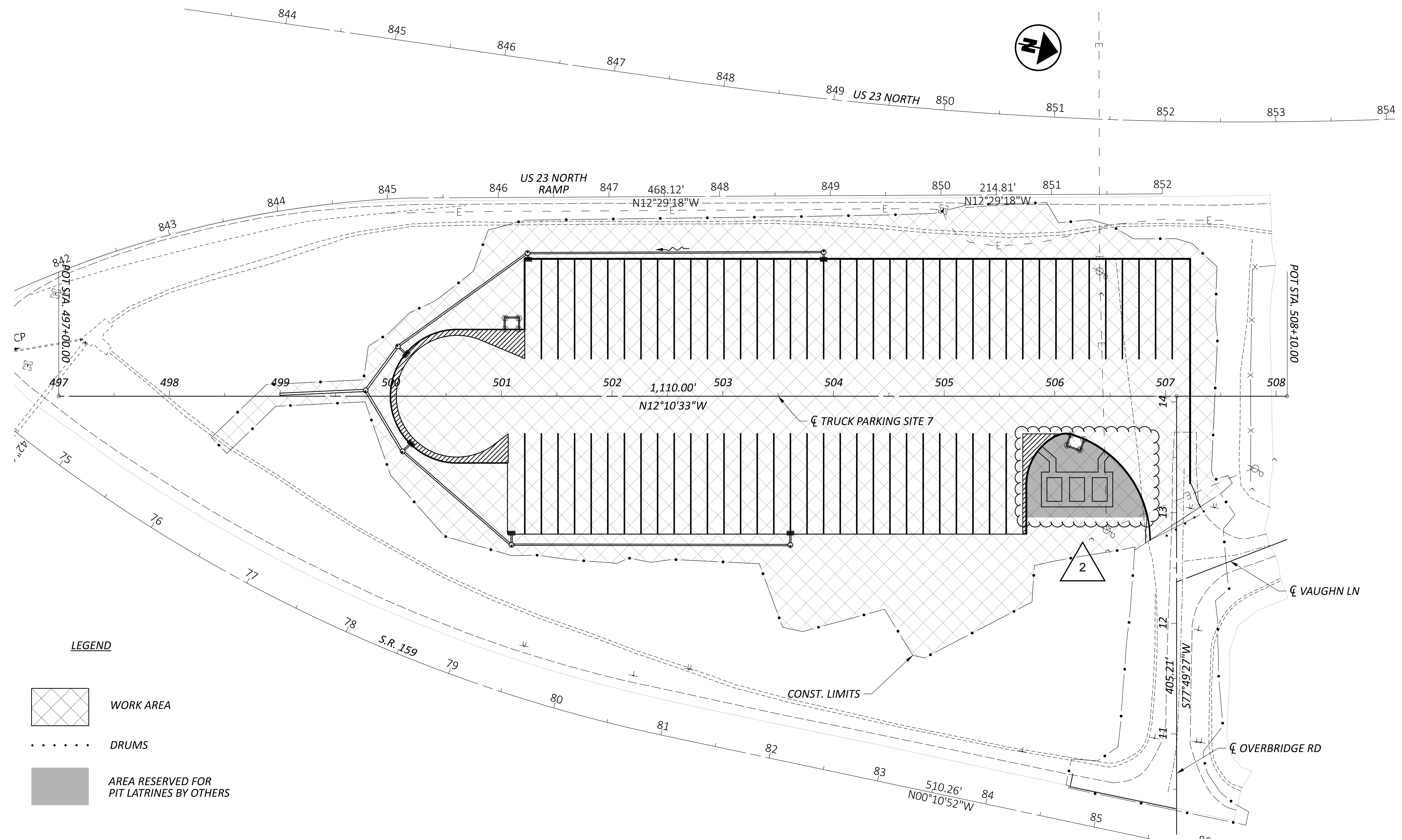
PROJECT CONTROL TABLE						
STATION/OFFSET (FROM CL PARKING LOT)		PROJECT COORDINATES (SEE SURVEY PARAMETERS)			MONUMENT DESCRIPTION	
STATION	OFFSET	NORTHING (FT)	EASTING (FT)	ELEVATION	PT #	DESCRIPTION
501+55.44	-300.55	342787.0150	172532.3360	697.0840	6505	CONCRETE MONUMENT
504+03.21	-267.79	343036.1240	172512.1070	701.7500	6506	CONCRETE MONUMENT
500+66.47	367.31	342840.9060	173203.9380	710.5510	6541	1" REBAR, DISTURBED, BENT
507+84.08	-98.38	343444.1590	172597.3740	713.4600	6546	IRON PIN
507+84.34	51.57	343476.0390	172743.8930	717.7320	6547	IRON PIN
507+34.74	535.93	343529.7120	173227.8190	730.8610	7	IRON PIN
508+88.77	229.87	343615.7210	172896.1560	719.3830	6551	1/2" REBAR, NO CAP
496+94.49	118.57	342424.8310	173039.2540	709.6060	101 CHK	-no description provided-
501+25.01	323.95	342888.9850	173149.2120	714.5350	102	REBAR / ODOT CAP
506+34.89	437.73	343411.3980	173152.8870	717.7620	103 CHK	-no description provided-
508+05.75	148.29	343517.3650	172833.9190	722.5220	100	REBAR / ODOT CAP



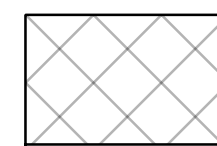


SCHEMATIC PLAN

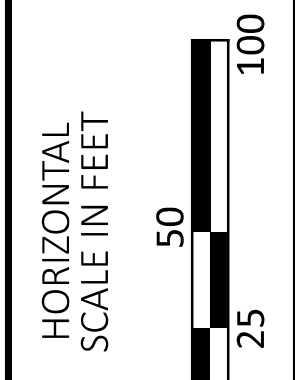


DESIGN AGENCY	
DESIGNER	US
REVIEWER	MAH 01/12/26
PROJECT ID	122886
SHEET	TOTAL
P.02	46



LEGEND

-  WORK AREA
-  DRUMS
-  AREA RESERVED FOR PIT LATRINES BY OTHERS



MAINTENANCE OF TRAFFIC PLAN  
 PHASE 1

DESIGN AGENCY



DESIGNER

US

REVIEWER

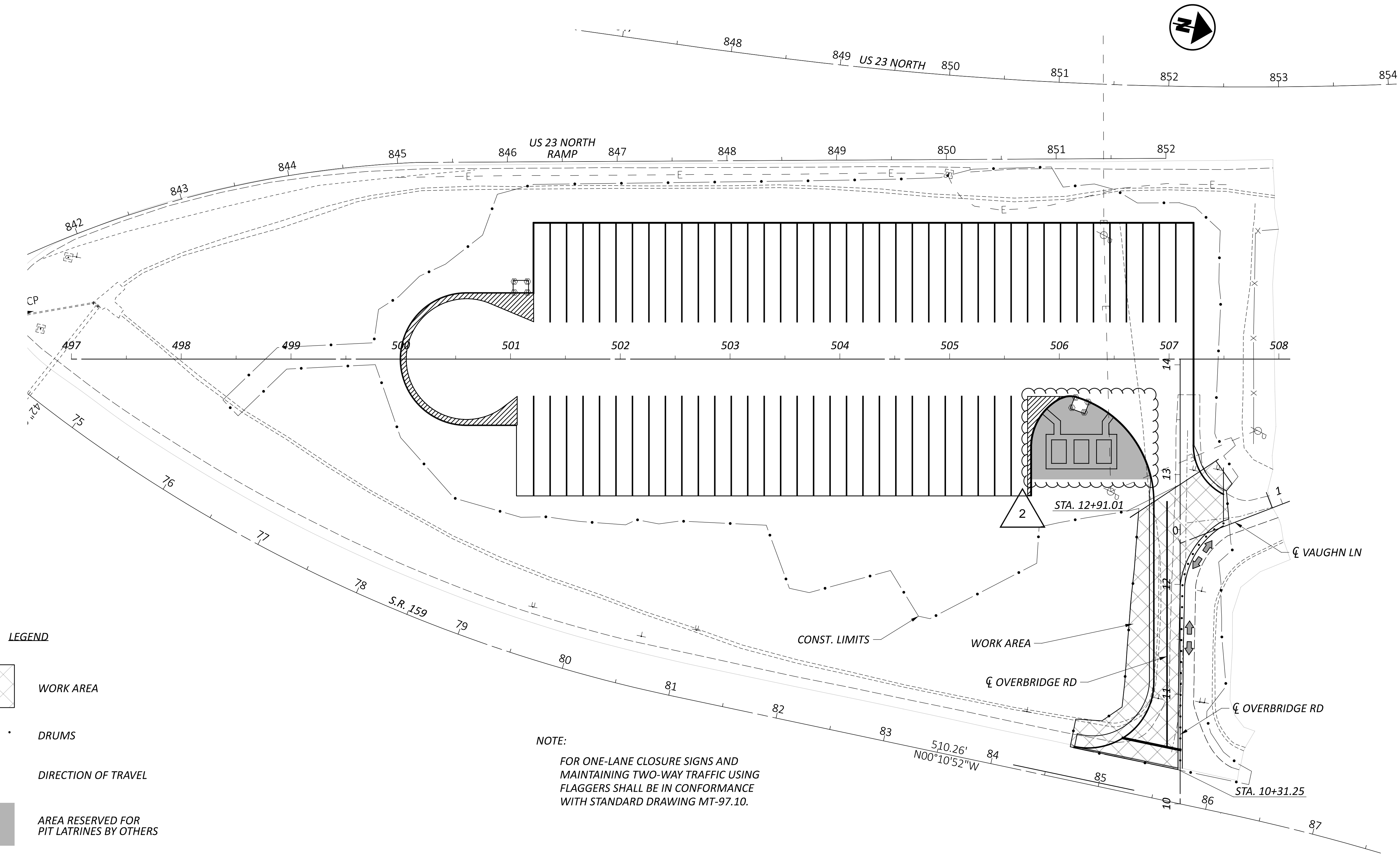
MAH 01/12/26





PROJECT ID

122886

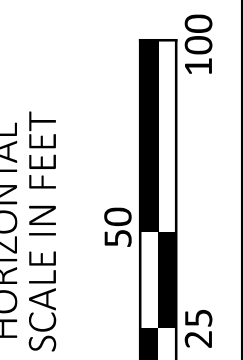
SHEET TOTAL

P.07 46



- LEGEND**
-  WORK AREA
  -  DRUMS
  -  DIRECTION OF TRAVEL
  -  AREA RESERVED FOR PIT LATRINES BY OTHERS

**NOTE:**  
 FOR ONE-LANE CLOSURE SIGNS AND MAINTAINING TWO-WAY TRAFFIC USING FLAGGERS SHALL BE IN CONFORMANCE WITH STANDARD DRAWING MT-97.10.

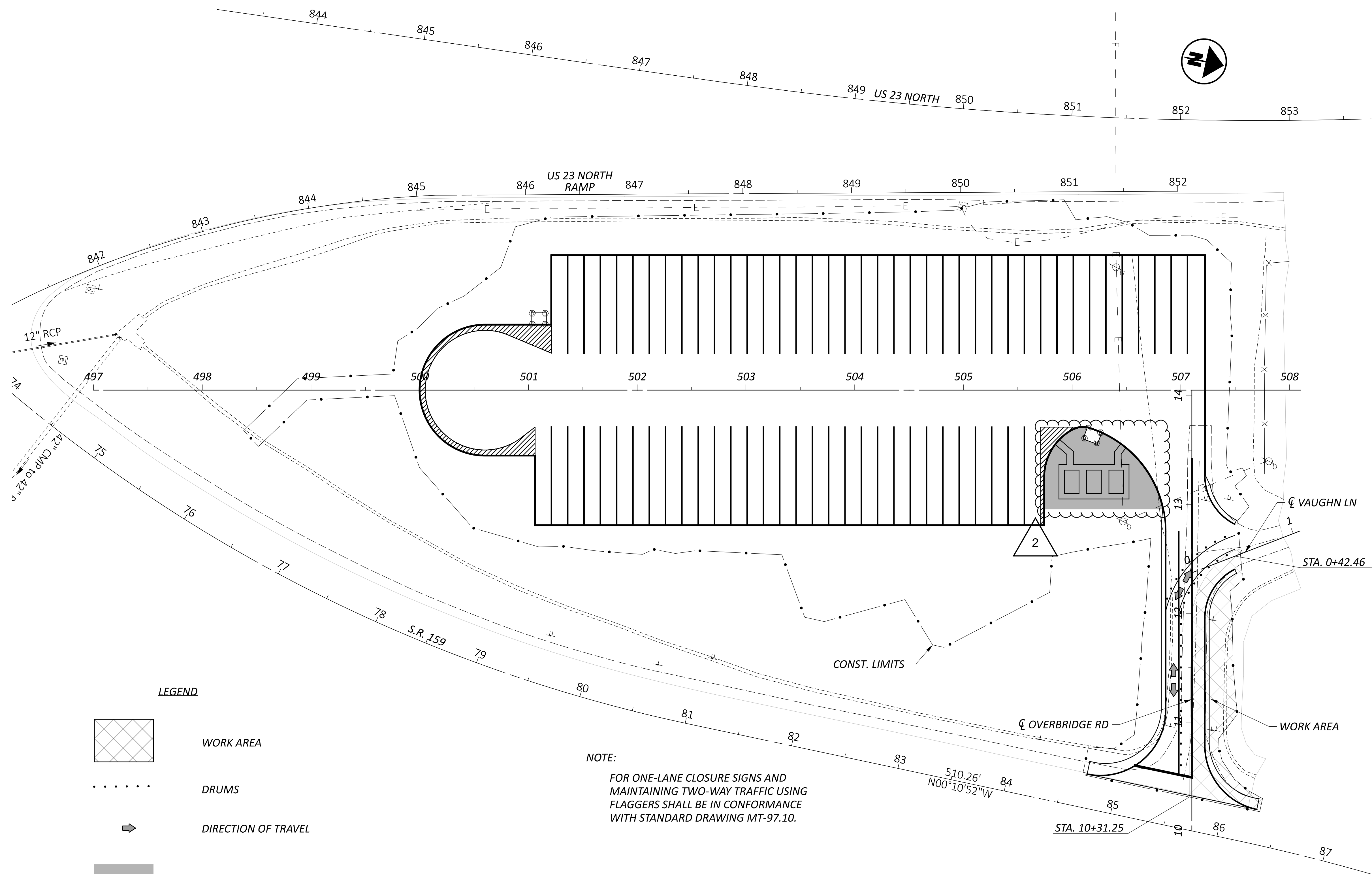


MAINTENANCE OF TRAFFIC PLAN  
 PHASE 2





DESIGN AGENCY



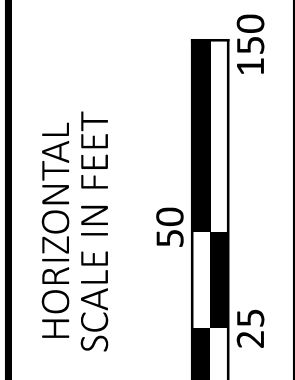
DESIGNER	US
REVIEWER	MAH 01/12/26
PROJECT ID	122886
SHEET	TOTAL
P.08	46



**LEGEND**

-  WORK AREA
-  DRUMS
-  DIRECTION OF TRAVEL
-  AREA RESERVED FOR PIT LATRINES BY OTHERS

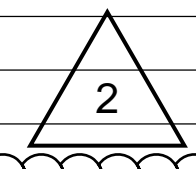
**NOTE:**  
 FOR ONE-LANE CLOSURE SIGNS AND  
 MAINTAINING TWO-WAY TRAFFIC USING  
 FLAGGERS SHALL BE IN CONFORMANCE  
 WITH STANDARD DRAWING MT-97.10.



MAINTENANCE OF TRAFFIC PLAN  
 PHASE 3

DESIGN AGENCY	
	
DESIGNER	US
REVIEWER	MAH 01/12/26
PROJECT ID	122886
SHEET	TOTAL
P.11	46

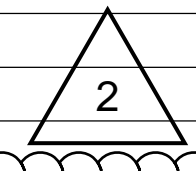
SHEET NUM.								PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
5	6	17	18	33	36	39		01/NFP	EXT	TOTAL				
													<b>LIGHTING</b>	
						9		9	625	00450	9	EACH	CONNECTION, FUSED PULL APART	
						1		1	625	00480	1	EACH	CONNECTION, UNFUSED PERMANENT	
						1		1	625	10503	1	EACH	LIGHT POLE (INSTALLATION ONLY), AS PER PLAN, CONVENTIONAL, AT20B40	37
						8		8	625	10503	8	EACH	LIGHT POLE (INSTALLATION ONLY), AS PER PLAN, LIGHT TOWER B45 & BB45	37
						1		1	625	14100	1	EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP	
						3		3	625	15700	3	EACH	LIGHT TOWER FOUNDATION, MISC.: 36" X 13' DEEP	37
						5		5	625	15700	5	EACH	LIGHT TOWER FOUNDATION, MISC.: 36" X 8' DEEP	37
						5,419		5,419	625	23200	5,419	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
						490		490	625	23400	490	FT	NO. 10 AWG POLE AND BRACKET CABLE	
						1,709		1,709	625	25500	1,709	FT	CONDUIT, 3", 725.04	
						1		1	625	26252	1	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), TYPE II, 240V	
						12		12	625	26262	12	EACH	LUMINAIRE, HIGH MAST, SOLID STATE (LED), TYPE V, 240V	
						1,498		1,498	625	29000	1,498	FT	TRENCH	
						158		158	625	29400	158	FT	TRENCH IN PAVED AREA	
						2		2	625	30706	2	EACH	PULL BOX, 725.08, 24"	
						17		17	625	32000	17	EACH	GROUND ROD	
						1		1	625	34001	1	EACH	POWER SERVICE, AS PER PLAN	37
						1,709		1,709	625	36010	1,709	FT	UNDERGROUND WARNING/MARKING TAPE	
													<b>TRAFFIC CONTROL</b>	
					62			62	630	03100	62	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
					203			203	630	04100	203	FT	GROUND MOUNTED SUPPORT, NO. 4 POST	
					95			95	630	07000	95	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W8X18	
					149			149	630	07500	149	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X22	
					686			686	630	80100	686	SF	SIGN, FLAT SHEET	
					10			10	630	84500	10	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	
					5			5	630	84900	5	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
					5			5	630	85100	5	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
					9			9	630	86002	9	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
	2,144							2,144	642	30000	2,144	FT	REMOVAL OF PAVEMENT MARKING	
													<b>MAINTENANCE OF TRAFFIC</b>	
	0.35							0.35	614	22110	0.35	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT	
	1,068							1,068	614	23200	1,068	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT	
110								110	616	10000	110	MGAL	WATER	
													<b>ITEMS OF WORK - OPTION A (FLEXIBLE)</b>	
			3,107					3,107	301	56000	3,107	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
			3,139					3,139	304	20000	3,139	CY	AGGREGATE BASE	
			2,048					2,048	407	10000	2,048	GAL	TACK COAT	
			776					776	442	10000	776	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	
			1,293					1,293	442	10100	1,293	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	
				0.12				0.12	644	00104	0.12	MILE	EDGE LINE, 6"	
				0.06				0.06	644	00300	0.06	MILE	CENTER LINE	
				224				224	644	00404	224	FT	CHANNELIZING LINE, 12"	
				53				53	644	00500	53	FT	STOP LINE	
				1,910				1,910	644	00701	1,910	FT	TRANSVERSE/DIAGONAL LINE, AS PER PLAN	33
				6,210				6,210	644	01200	6,210	FT	PARKING LOT STALL MARKING	
				4				4	644	01300	4	EACH	LANE ARROW	
				2				2	644	01400	2	EACH	WORD ON PAVEMENT, 72"	



GENERAL SUMMARY

DESIGN AGENCY  
  
 DESIGNER  
 US  
 REVIEWER  
 MAH 01/12/26  
 PROJECT ID  
 122886  
 SHEET TOTAL  
 P.15 46

SHEET NUM.												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
18	33										OFFICE CALCS	01/NFP	EXT	TOTAL				
<b>ITEMS OF WORK - OPTION B (RIGID)</b>																		
3,120												3,120	304	20000	3,120	CY	AGGREGATE BASE	
18,620												18,620	452	14010	18,620	SY	10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
	0.12											0.12	646	10010	0.12	MILE	EDGE LINE, 6"	
	0.06											0.06	646	10200	0.06	MILE	CENTER LINE	
	224											224	646	10310	224	FT	CHANNELIZING LINE, 12"	
	53											53	646	10400	53	FT	STOP LINE	
	1,910											1,910	646	10601	1,910	FT	TRANSVERSE/DIAGONAL LINE, AS PER PLAN	
	6,210											6,210	646	20200	6,210	FT	PARKING LOT STALL MARKING	
	4											4	646	20300	4	EACH	LANE ARROW	
	2											2	646	20400	2	EACH	WORD ON PAVEMENT, 72"	
<b>INCIDENTALS</b>																		
											LS	LS	614	11000	LS		MAINTAINING TRAFFIC	
											6	6	619	16000	6	MNTH	FIELD OFFICE, TYPE A	
											LS	LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
											LS	LS	624	10000	LS		MOBILIZATION	



33

GENERAL SUMMARY

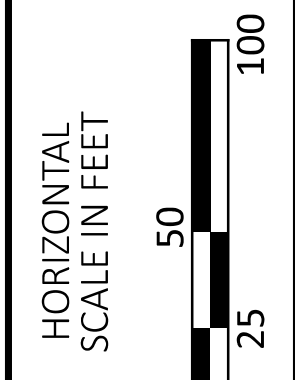
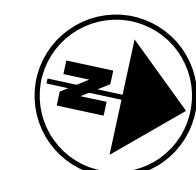
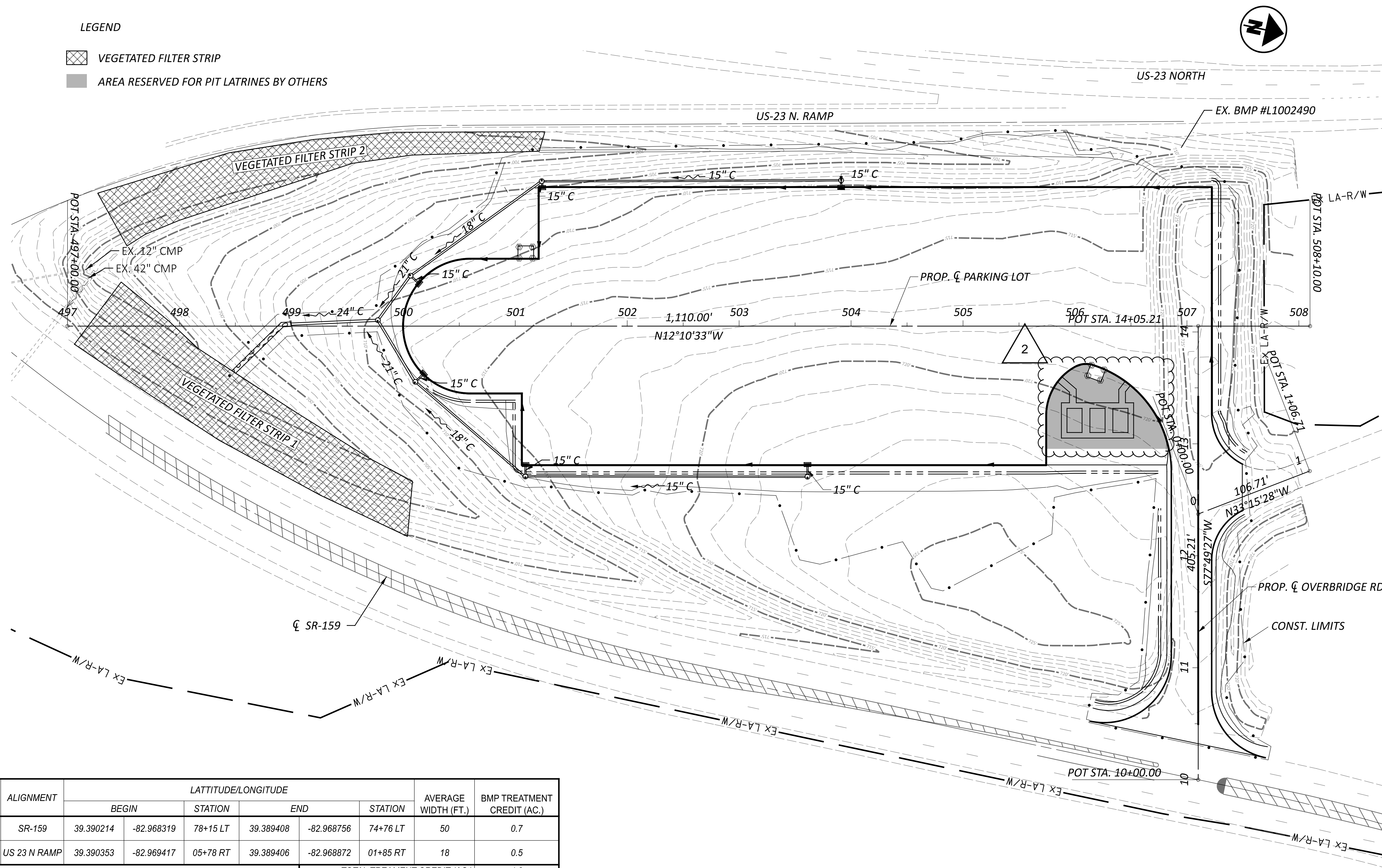
DESIGN AGENCY	
DESIGNER	US
REVIEWER	MAH 01/12/26
PROJECT ID	122886
SHEET TOTAL	P.16   46

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	QUANTITY	UNIT
659	TOPSOIL VOLUME	383.5	CY
670	EROSION PROTECTION AREA	3451.3	SY
832	STORM WATER POLLUTION PREVENTION PLAN	1	LS
832	STORM WATER POLLUTION PREVENTION PLAN INSPECTIONS	1	LS
832	STORM WATER POLLUTION PREVENTION PLAN INSPECTIONS SOFTWARE	1	LS

PROJECT DATA			
TOTAL AREA (RIGHT-OF-WAY)	10.3 AC	RUNOFF COEFFICIENT FOR PRE - CONSTRUCTION SITE	0.51
PROJECT EARTH DISTURBED AREA	6.00 AC	RUNOFF COEFFICIENT FOR POST - CONSTRUCTION SITE	0.77
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	4.00 AC	POST CONSTRUCTION BMP: VEGETATED FILTER STRIPS ARE PROVIDED TO MEET NPDES POST-CONSTRUCTION REQUIREMENTS.	
ESTIMATED OF INTENT EARTH DISTURBED AREA	10.00 AC		
IMPERVIOUS (PAVED) AREA FOR PRE - CONSTRUCTION SITE	0.35	IMMEDIATE RECEIVING WATERS	UNNAMED TRIBUTARY TO DRY RUN
IMPERVIOUS (PAVED) AREA FOR POST - CONSTRUCTION SITE	3.99	SUBSEQUENT RECEIVING WATERS	SCIOTO RIVER

LEGEND

- VEGETATED FILTER STRIP
- AREA RESERVED FOR PIT LATRINES BY OTHERS



PROJECT SITE PLAN

BMP TYPE	ALIGNMENT	LATITUDE/LONGITUDE				AVERAGE WIDTH (FT.)	BMP TREATMENT CREDIT (AC.)			
		BEGIN	STATION	END	STATION					
VEGETATED FILTER STRIP 1	SR-159	39.390214	-82.968319	78+15 LT	39.389408	-82.968756	74+76 LT	50	0.7	
VEGETATED FILTER STRIP 2	US 23 N RAMP	39.390353	-82.969417	05+78 RT	39.389406	-82.968872	01+85 RT	18	0.5	
TOTAL TREATMENT CREDIT (AC.)							1.2			
TREATMENT REQUIRED (AC.)							1.2			

DESIGN AGENCY



DESIGNER

SWK

REVIEWER

TRC 01/12/26

PROJECT ID

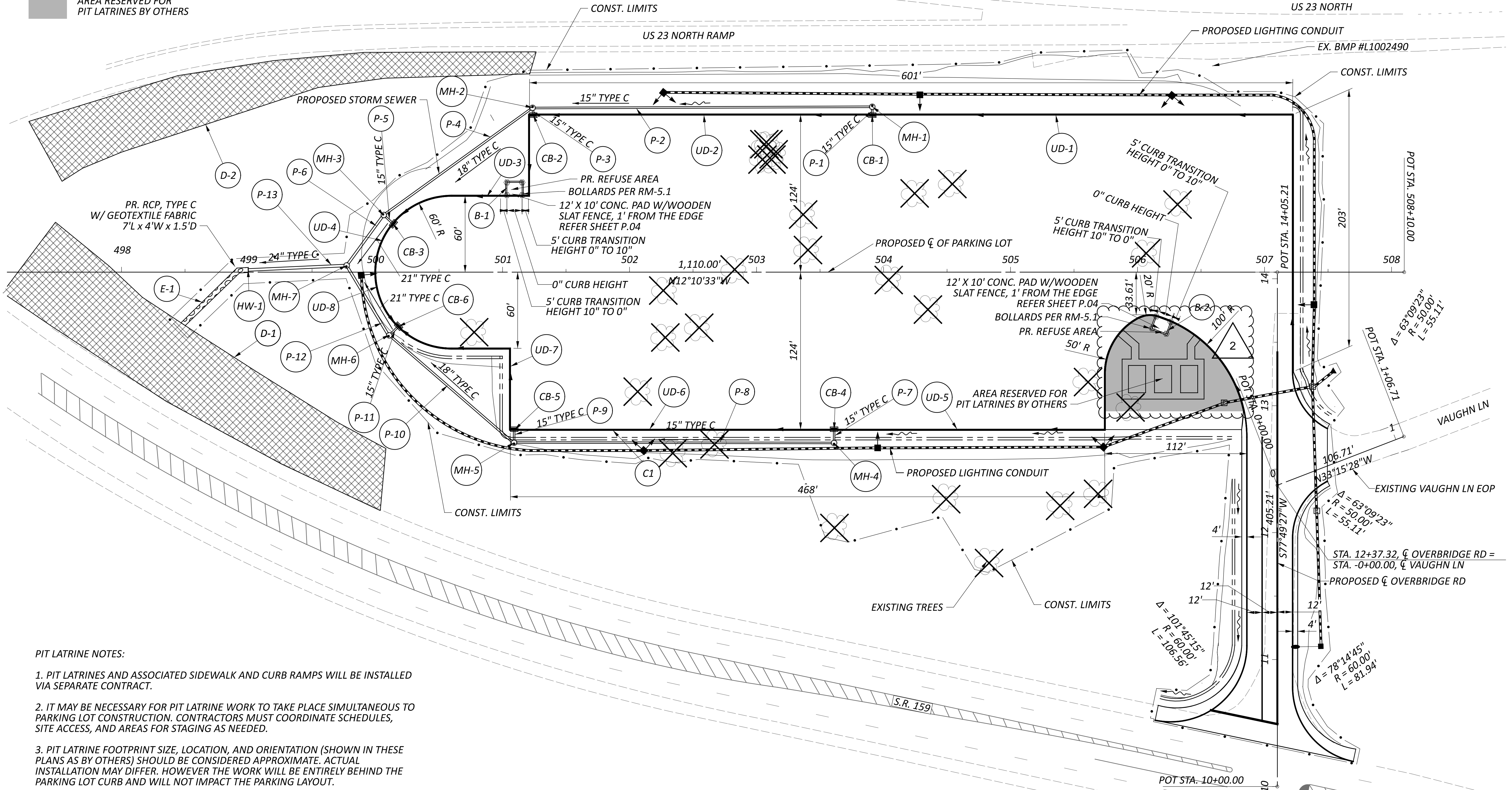
122886

SHEET TOTAL

P.19 46

LEGEND

-  VEGETATED FILTER STRIP
-  AREA RESERVED FOR PIT LATRINES BY OTHERS

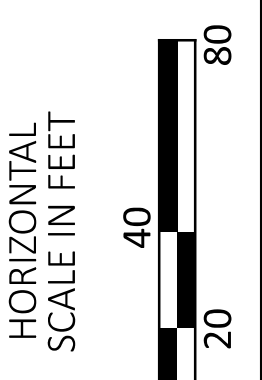
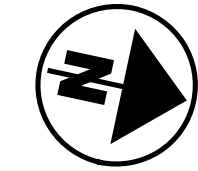


PIT LATRINE NOTES:

1. PIT LATRINES AND ASSOCIATED SIDEWALK AND CURB RAMPS WILL BE INSTALLED VIA SEPARATE CONTRACT.
2. IT MAY BE NECESSARY FOR PIT LATRINE WORK TO TAKE PLACE SIMULTANEOUS TO PARKING LOT CONSTRUCTION. CONTRACTORS MUST COORDINATE SCHEDULES, SITE ACCESS, AND AREAS FOR STAGING AS NEEDED.
3. PIT LATRINE FOOTPRINT SIZE, LOCATION, AND ORIENTATION (SHOWN IN THESE PLANS AS BY OTHERS) SHOULD BE CONSIDERED APPROXIMATE. ACTUAL INSTALLATION MAY DIFFER. HOWEVER THE WORK WILL BE ENTIRELY BEHIND THE PARKING LOT CURB AND WILL NOT IMPACT THE PARKING LAYOUT.
4. PIT LATRINE PLANS WILL BE PROVIDED FOR REFERENCE WHEN AVAILABLE.

REFUSE AREA CONCRETE PAD:

- ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
- ITEM 304 - 6" AGGREGATE BASE
- ITEM 206 - 12" CEMENT STABILIZED SUBGRADE

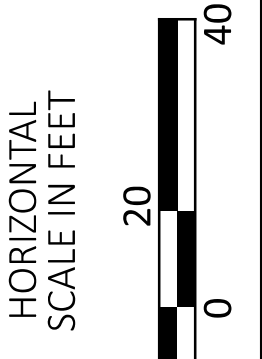
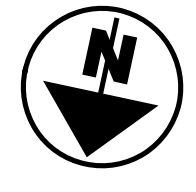
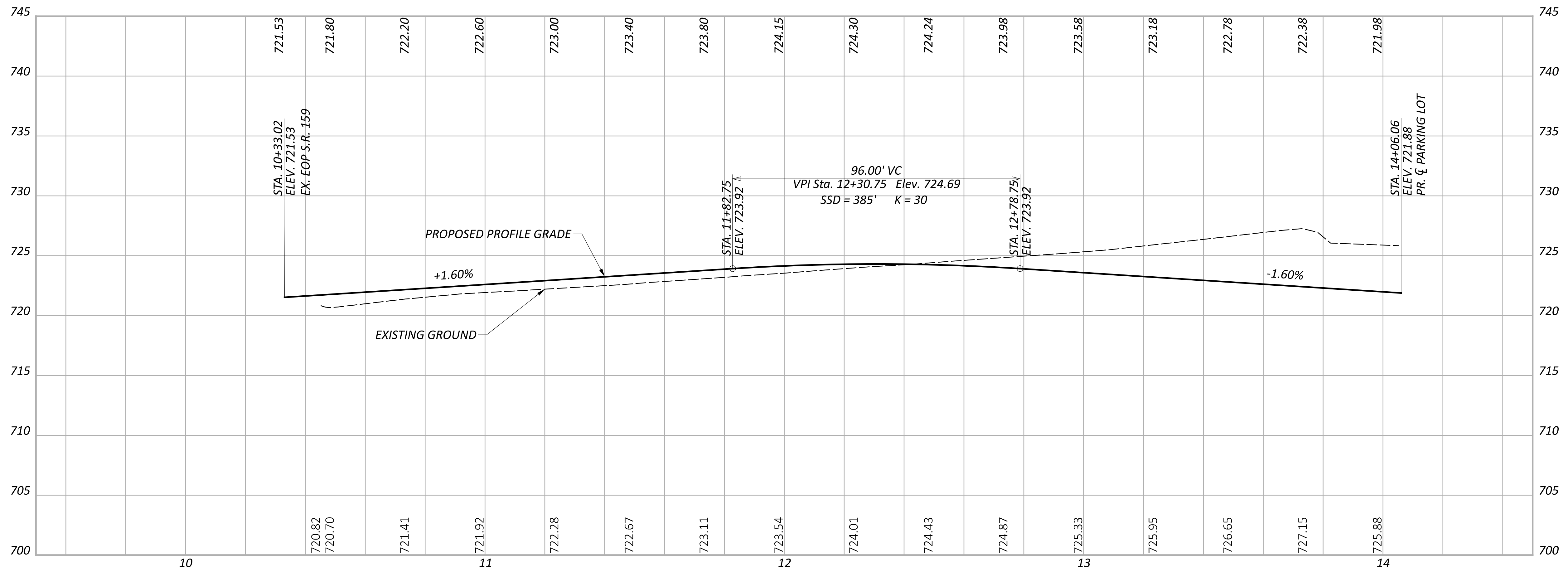
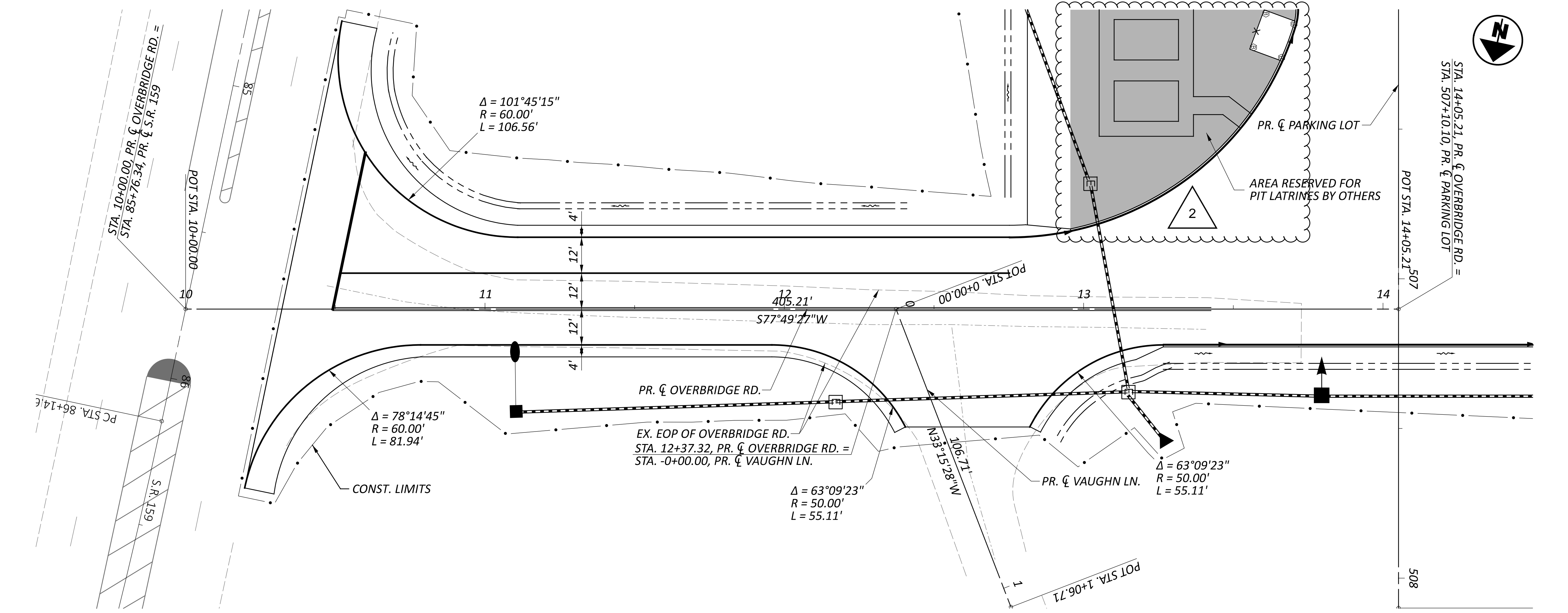


PLAN

DESIGN AGENCY



DESIGNER	AM
REVIEWER	MAH 01/12/26
PROJECT ID	122886
SHEET	TOTAL
P.20	46



PLAN AND PROFILE  
OVERBRIDGE ROAD

DESIGN AGENCY

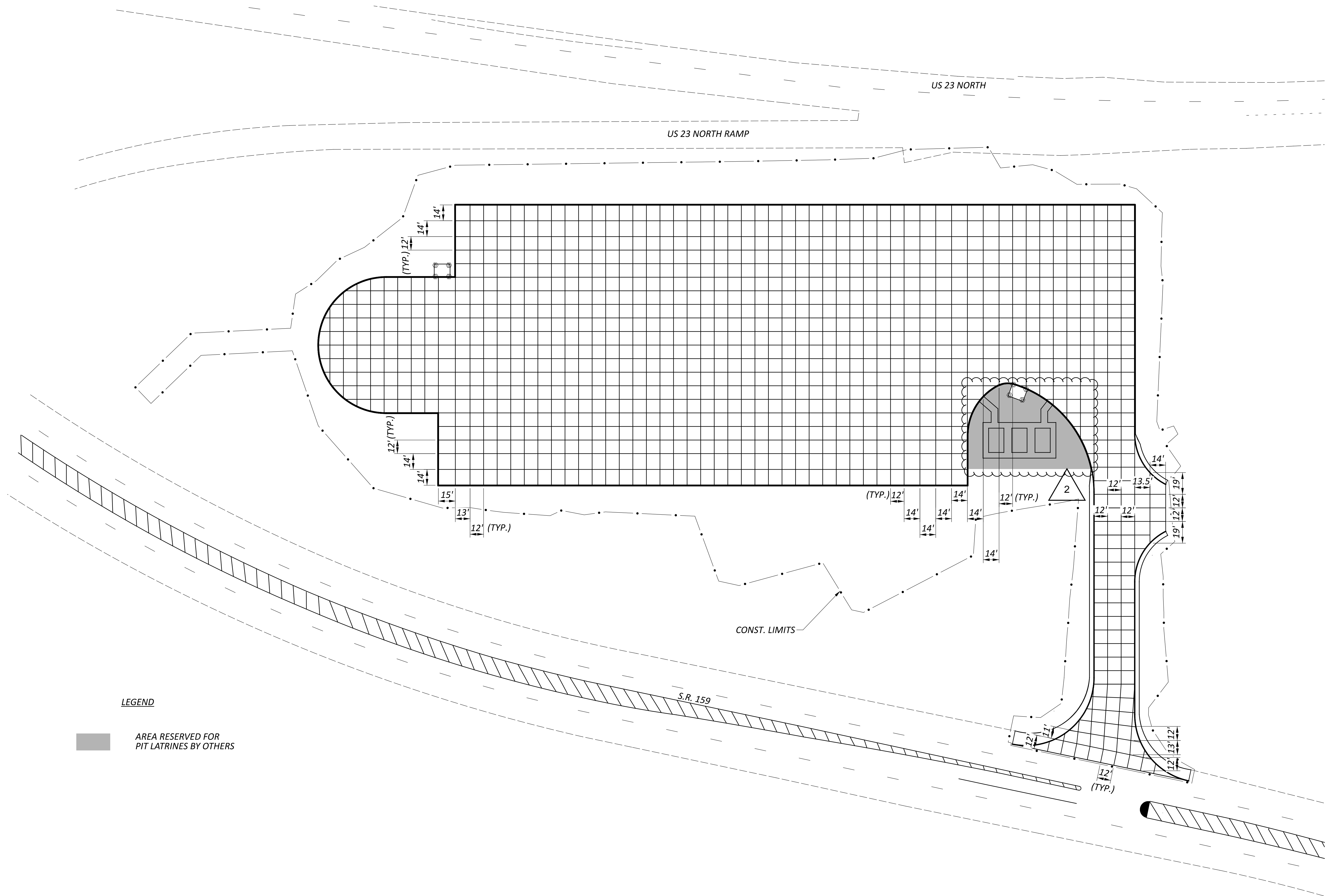


DESIGNER  
AM

REVIEWER  
MAH 01/12/26

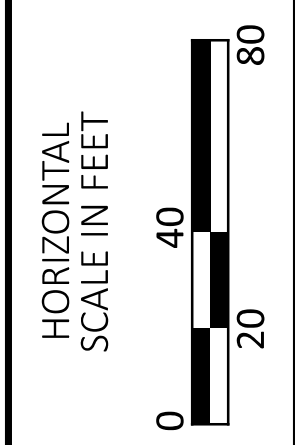
PROJECT ID  
122886

SHEET TOTAL  
P.21 46



**LEGEND**

■ AREA RESERVED FOR PIT LATRINES BY OTHERS



PAVEMENT JOINT DETAIL

DESIGN AGENCY



DESIGNER  
US

REVIEWER  
MAH 01/12/26

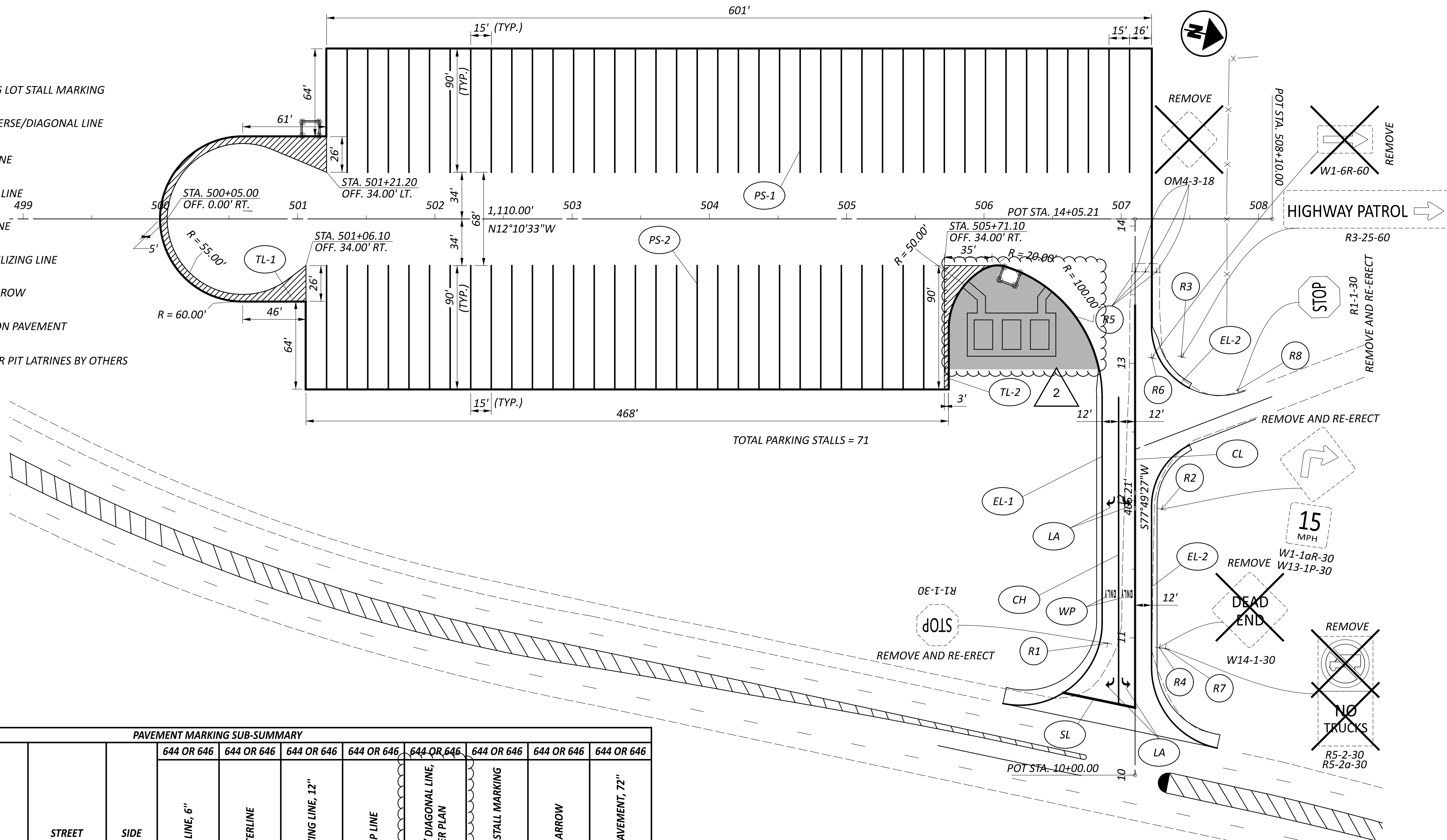
PROJECT ID  
122886

SHEET TOTAL  
P.30 46



**LEGEND**

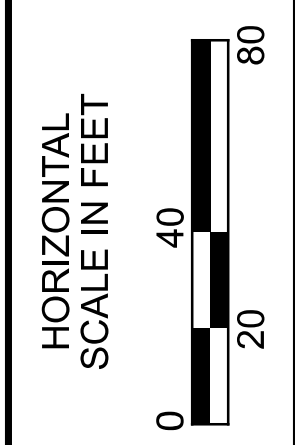
- PS ITEM 644 - PARKING LOT STALL MARKING
- TL ITEM 644 - TRANSVERSE/DIAGONAL LINE
- EL ITEM 644 - EDGE LINE
- CL ITEM 644 - CENTER LINE
- SL ITEM 644 - STOP LINE
- CH ITEM 644 - CHANNELIZING LINE
- LA ITEM 644 - LANE ARROW
- WP ITEM 644 - WORD ON PAVEMENT
- AREA RESERVED FOR PIT LATRINES BY OTHERS



**PAVEMENT MARKING SUB-SUMMARY**

SHEET NO.	REFERENCE	STATION		STREET	SIDE	ITEM 644 OR 646								
		FROM	TO			EDGE LINE, 6"	CENTERLINE	CHANNELIZING LINE, 12"	STOP LINE	TRANSVERSE / DIAGONAL LINE, AS PER PLAN	PARKING LOT STALL MARKING	LANE ARROW	WORD ON PAVEMENT, 72"	
						MILE	MILE	FT	FT	FT	FT	EACH	EACH	
P.33	LA	10+63	12+03	OVERBRIDGE RD	RT/LT									
P.33	WP	11+29	11+35	OVERBRIDGE RD	RT/LT							4	2	
P.33	PS-1	501+36	507+06	PARKING LOT	LT							3510		
P.33	PS-2	501+21	505+56	PARKING LOT	RT							2700		
P.33	EL-1	10+52	12+96	OVERBRIDGE RD	LT	0.06								
P.33	EL-2	10+19	13+27	OVERBRIDGE RD	RT	0.06								
P.33	SL	10+60	10+49	OVERBRIDGE RD	LT				53					
P.33	CH	10+52	12+75	OVERBRIDGE RD	LT			224						
P.33	CL	10+49	13+43	OVERBRIDGE RD	RT/LT		0.06							
P.33	TL-1	500+00	501+21	PARKING LOT	RT/LT						1419			
P.33	TL-2	505+71	506+06	PARKING LOT	RT						491			
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>						<b>0.12</b>	<b>0.06</b>	<b>224</b>	<b>53</b>	<b>1910</b>	<b>6210</b>	<b>4</b>	<b>2</b>	

2
**ITEM 644 - TRANSVERSE/DIAGONAL LINE, AS PER PLAN & ITEM 646 - TRANSVERSE/DIAGONAL LINE, AS PER PLAN**  
 TRANSVERSE/DIAGONAL LINE PAVEMENT MARKINGS SHALL CONFORM TO ALL APPLICABLE SPECIFICATIONS IN C&MS 644 OR C&MS 646, RESPECTIVELY, AND SHALL HAVE A WIDTH OF 4 INCHES.



**PAVEMENT MARKING PLAN**

**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.
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:
 

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. 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.
6. PAYMENT - ALL MATERIALS AND WORK REQUIRED TO COMPLETE THE EFFECTIVE GROUND FAULT CURRENT PATH SYSTEM ARE INCIDENTAL TO THE CONDUCTORS INSTALLED BY CONTRACT.

**PADLOCKS AND KEYS**

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYED IN ACCORDANCE WITH C&MS 631.06. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEM(S) BEING LOCKED.

**ITEM 625 - POWER SERVICE, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

POWER COMPANY: AEP OHIO  
 ADDRESS: 1500 GRANVILLE RD., NEWARK, OH 43055  
 PHONE #: 614-883-6802  
 CONTACT NAME: BRENT GATES

THE ENGINEER SHALL ENSURE THAT EACH POWER SERVICE ELECTRICAL ENERGY ACCOUNT IS IN THE NAME OF AND THAT THE BILLING ADDRESS IS TO THE MAINTAINING AGENCY NOTED IN THE PLANS. THIS SHALL BE DONE NOT ONLY FOR EACH NEW POWER SERVICE ESTABLISHED BY THIS PROJECT BUT ALSO FOR EACH EXISTING POWER SERVICE, SINCE THERE MAY BE A REASSIGNMENT OF THE RESPONSIBILITY FOR AN EXISTING SERVICE AS A RESULT OF THE WORK PERFORMED BY THIS PROJECT.

**ITEM 625 - LUMINAIRE, HIGH MAST, SOLID-STATE (LED), 240V**

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS SHALL BE AS FOLLOWS:

ASSURE THE LUMINAIRE HAS A NOMINAL COLOR TEMPERATURE OF 3000K AND BE 240 VOLT.

ASSURE THE LUMINAIRE HAS A HOUSE SIDE SHIELD.

SUPPLY ONE OF THE FOLLOWING LUMINAIRES, OR AN APPROVED EQUAL:

HOLOPHANE, HMLD4\_P6\_30K\_AW\_HMLD4D120

**ITEM 625 - LUMINAIRE, CONVENTIONAL, SOLID-STATE (LED), 240V**

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS SHALL BE AS FOLLOWS:

ASSURE THE LUMINAIRE HAS A NOMINAL COLOR TEMPERATURE OF 3000K AND BE 240 VOLT.

ASSURE THE LUMINAIRE HAS A HOUSE SIDE SHIELD.

SUPPLY ONE OF THE FOLLOWING LUMINAIRES, OR AN APPROVED EQUAL:

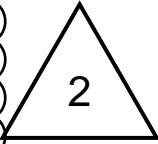
AMERICAN ELECTRIC LIGHTING, ATBM\_P10\_XXXXX\_R2\_3K\_HSS

**ITEM 625 - LIGHT POLE (INSTALLATION ONLY), AS PER PLAN, CONVENTIONAL, AT20B40**

**ITEM 625 - LIGHT POLE (INSTALLATION ONLY), AS PER PLAN, LIGHT TOWER B45 & BB45**

LIGHT POLES AND BRACKET ARMS WILL BE AVAILABLE ON THIS PROJECT FOR PICKUP BY THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT DUSTIN PFEIFER AT 740-774-8943 TO OBTAIN THIS MATERIAL. THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO PICK UP THE MATERIAL FROM ODOT'S DISTRICT 9 FACILITY, 650 EASTERN AVE, CHILLICOTHE, OH 45601. ALL ITEMS SHALL BE INSTALLED PER ODOT'S STANDARDS AND SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE ALL INCIDENTALS, LABOR, AND EQUIPMENT, SUCH AS TRUCKING AND PORTABLE POWER UNITS, NECESSARY TO INSTALL A COMPLETE AND PRACTICAL WORKING LIGHT TOWER. THE COST OF COORDINATING AND FURNISHING THESE INSTALLATION ITEMS SHALL BE INCLUDED IN THE UNIT COST BID PRICE



**ITEM 625 - LIGHT POLE FOUNDATION, 24" X 8' DEEP**

LONGITUDINAL REINFORCING STEEL SHALL BE 6-#6 BARS. TRANSVERSE REINFORCING STEEL SHALL BE 1/2" DIAMETER WIRE SPIRALS WITH A 12" PITCH AND A FULL ROUND TURN AND A HALF AT EACH END. PER SCD HL-10.13: ANCHORS SHALL BE PER THE POLE MANUFACTURER (NOTE 11). RODS SHALL BE HEADED OR NUTTED, AND NOT HOOKED (NOTE 6). SHOP DRAWINGS SHALL INDICATE REQUIRED EXPOSED LENGTH. REFER TO THE FOLLOWING STANDARD CONSTRUCTION DRAWINGS FOR ADDITIONAL DETAILS.

**ITEM 625 - LIGHT TOWER FOUNDATION, MISC.: 36" X 8' DEEP**

THIS ITEM SHALL BE AS PER ITEM 625, LIGHT TOWER FOUNDATION WITH A 36" DIAMETER AND 8' DEPTH.

**ITEM 625 - LIGHT TOWER FOUNDATION, MISC.: 36" X 13' DEEP**

THIS ITEM SHALL BE AS PER ITEM 625, LIGHT TOWER FOUNDATION WITH A 36" DIAMETER AND 13' DEPTH.

DESIGN AGENCY

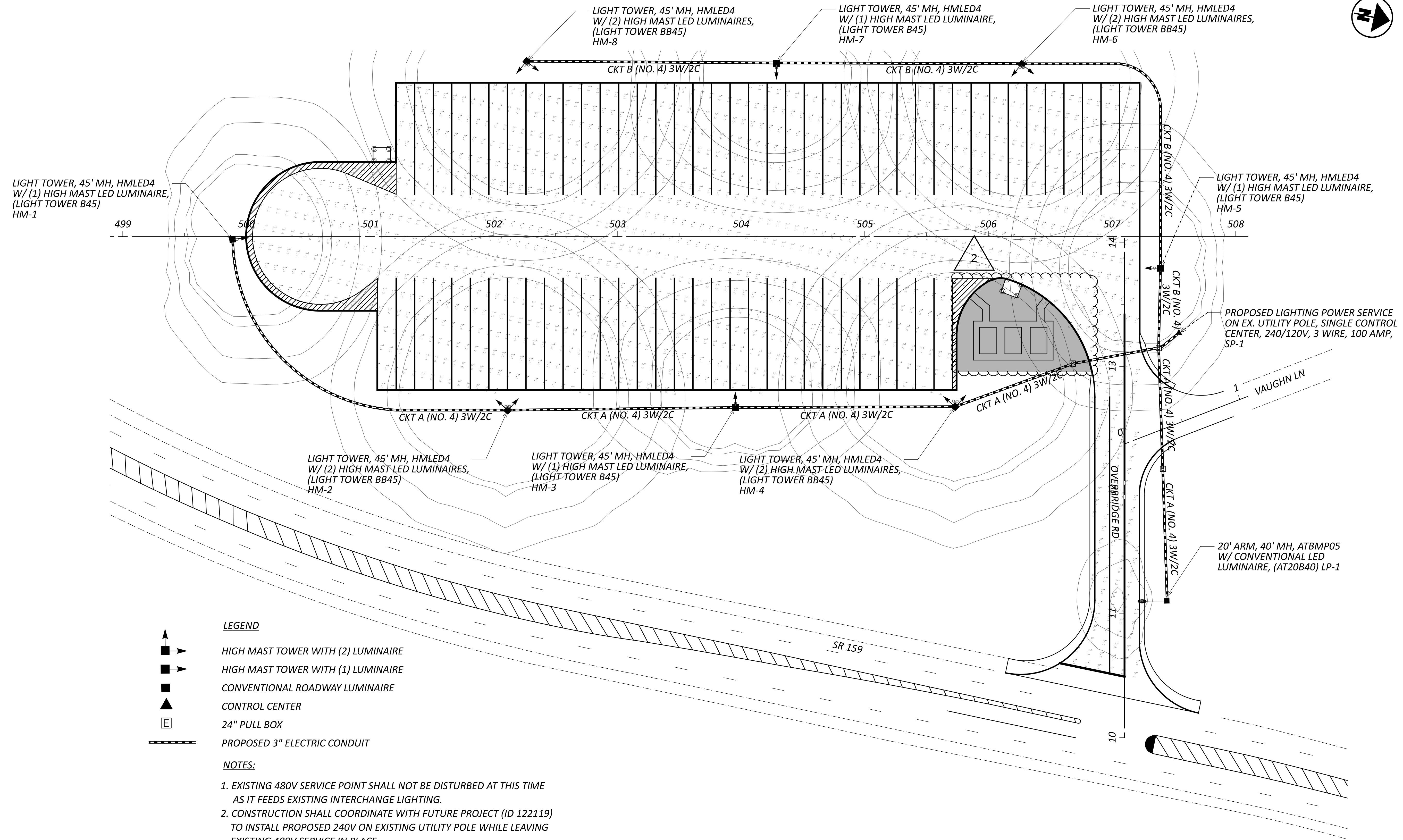


DESIGNER  
JAR

REVIEWER  
DS 01/12/26

PROJECT ID  
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SHEET TOTAL  
P.37 | 46

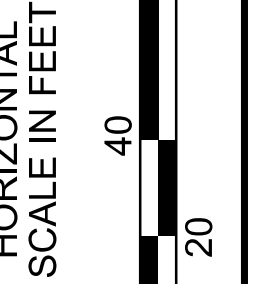


- LEGEND**
- HIGH MAST TOWER WITH (2) LUMINAIRE
  - HIGH MAST TOWER WITH (1) LUMINAIRE
  - CONVENTIONAL ROADWAY LUMINAIRE
  - CONTROL CENTER
  - 24" PULL BOX
  - PROPOSED 3" ELECTRIC CONDUIT

- NOTES:**
- EXISTING 480V SERVICE POINT SHALL NOT BE DISTURBED AT THIS TIME AS IT FEEDS EXISTING INTERCHANGE LIGHTING.
  - CONSTRUCTION SHALL COORDINATE WITH FUTURE PROJECT (ID 122119) TO INSTALL PROPOSED 240V ON EXISTING UTILITY POLE WHILE LEAVING EXISTING 480V SERVICE IN PLACE.

SECTION		AMPERES			AWG	VOLTAGE DROP			
FROM	TO	DESIGN FEET	AT POINT	ACCUM.		IN SEC.	ACCUM.	% DROP	AT POINTS
SP-1	LP-1	223	0.338	0.338	4	2.632	7.810	0.02	LP-1
SP-1	HM-4	187	6.275	6.613	4	2.168	5.177	0.7	HM-4
HM-4	HM-3	177	3.138	9.751	4	1.368	3.009	1.2	HM-3
HM-3	HM-2	183	6.275	16.026	4	1.061	1.641	2.4	HM-2
HM-2	HM-1	300	3.138	19.164	4	0.580	0.580	3.3	HM-1

SECTION		AMPERES			AWG	VOLTAGE DROP			
FROM	TO	DESIGN FEET	AT POINT	ACCUM.		IN SEC.	ACCUM.	% DROP	AT POINTS
SP-1	HM-5	82	3.138	3.138	4	0.951	0.951	0.1	HM-5
HM-5	HM-6	262	6.275	9.413	4	2.532	3.483	0.6	HM-6
HM-6	HM-7	197	3.138	12.551	4	1.142	4.625	1.1	HM-7
HM-7	HM-8	202	6.275	18.826	4	0.781	5.406	2.3	HM-8

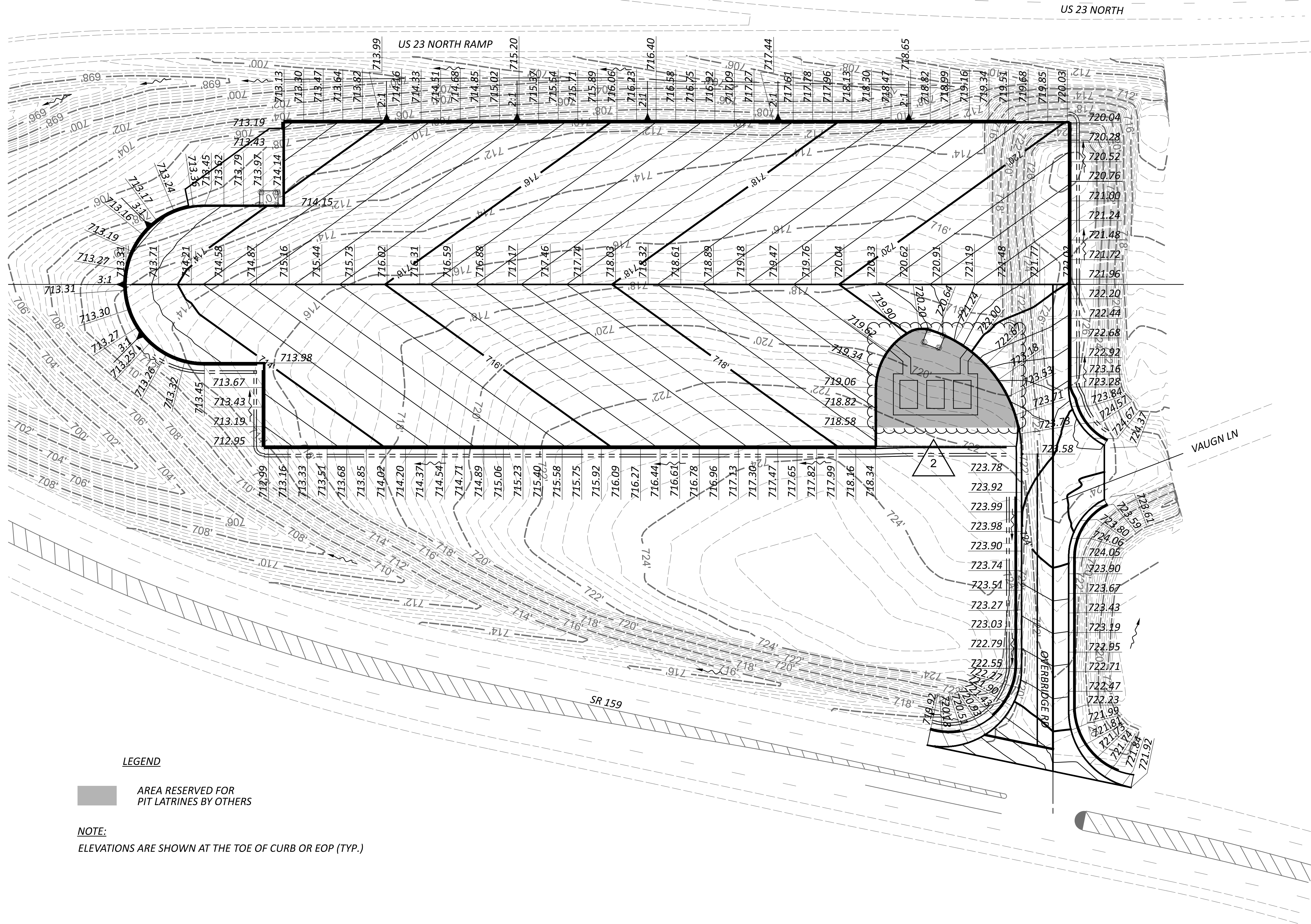


LIGHTING PLAN

DESIGN AGENCY



DESIGNER  
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DS 01/12/26  
PROJECT ID  
122886  
SHEET TOTAL  
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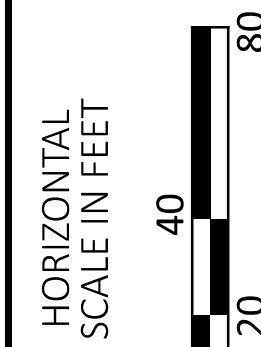


**LEGEND**

■ AREA RESERVED FOR PIT LATRINES BY OTHERS

**NOTE:**

ELEVATIONS ARE SHOWN AT THE TOE OF CURB OR EOP (TYP.)



**GRADING PLAN**

DESIGN AGENCY



DESIGNER

US

REVIEWER

MAH 01/12/26

PROJECT ID

122886


SHEET TOTAL

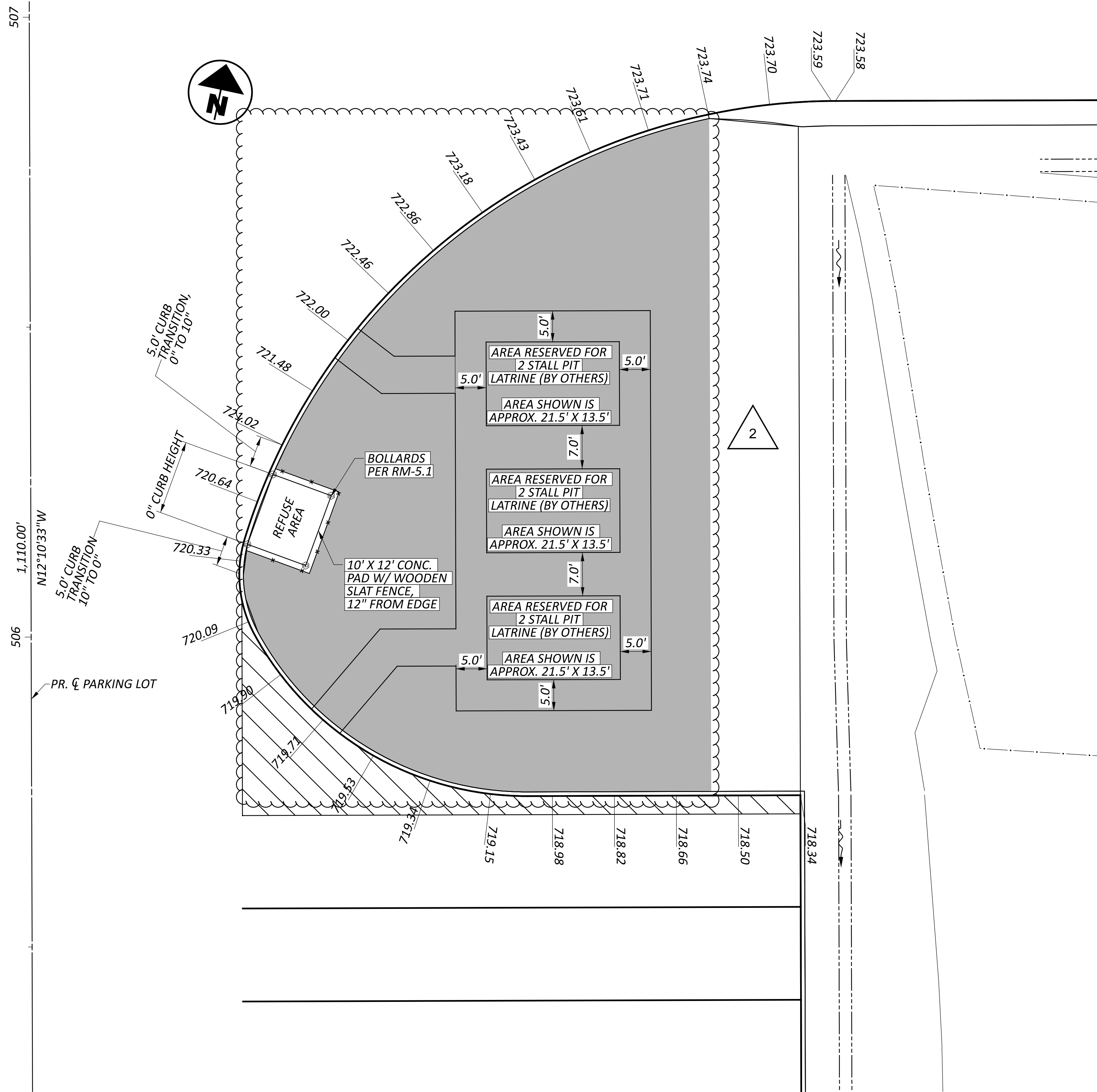
P.40 46

**PIT LATRINE NOTES:**

1. PIT LATRINES AND ASSOCIATED SIDEWALK AND CURB RAMPS WILL BE INSTALLED VIA SEPARATE CONTRACT.
2. IT MAY BE NECESSARY FOR PIT LATRINE WORK TO TAKE PLACE SIMULTANEOUS TO PARKING LOT CONSTRUCTION. CONTRACTORS MUST COORDINATE SCHEDULES, SITE ACCESS, AND AREAS FOR STAGING AS NEEDED.
3. PIT LATRINE FOOTPRINT SIZE, LOCATION, AND ORIENTATION (SHOWN IN THESE PLANS AS BY OTHERS) SHOULD BE CONSIDERED APPROXIMATE. ACTUAL INSTALLATION MAY DIFFER. HOWEVER THE WORK WILL BE ENTIRELY BEHIND THE PARKING LOT CURB AND WILL NOT IMPACT THE PARKING LAYOUT.
4. PIT LATRINE PLANS WILL BE PROVIDED FOR REFERENCE WHEN AVAILABLE

**LEGEND**

 AREA RESERVED FOR FACILITIES



GRADING DETAILS

DESIGN AGENCY



DESIGNER  
 AM

REVIEWER  
 MAH 01/12/26

PROJECT ID  
 122886

SHEET TOTAL  
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