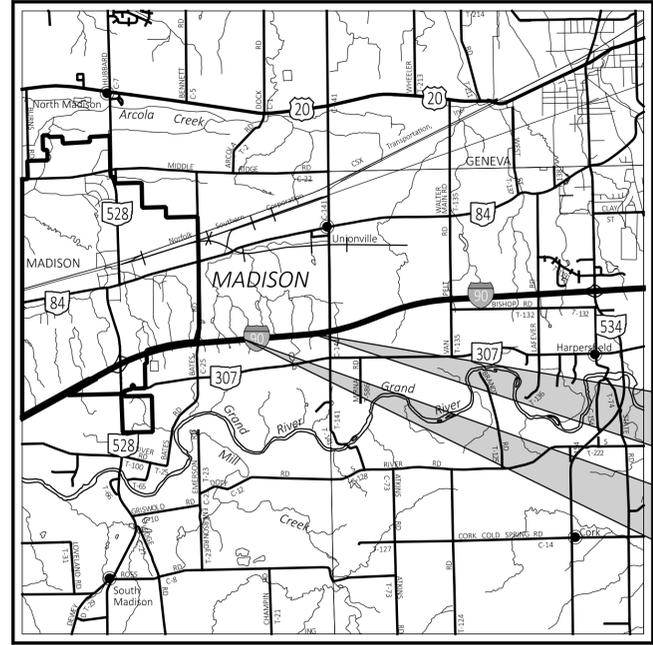


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 p:\ohdotod-pw-bentley.com\ohdotod-pw-02\Documents\01 Active Projects\District 12\Lake\122879\401-Engineering\MSConsultants\Roadway\Sheets\122879\_GT001.dgn

# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## LAK-IR 90 VACANT REST AREAS TP

MADISON TOWNSHIP  
LAKE COUNTY, OHIO



**LOCATION MAP**

LATITUDE: 41°45'46"N LONGITUDE: 81°01'04"W EASTBOUND  
 LATITUDE: 41°45'48"N LONGITUDE: 81°00'44"W WESTBOUND



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

**DESIGN DESIGNATION**

CURRENT ADT (2027)	43,500
DESIGN YEAR ADT (2047)	47,500
DESIGN HOURLY VOLUME (2047)	10.6%
DIRECTIONAL DISTRIBUTION	56%
TRUCKS (24 HOUR B&C)	32%
DESIGN SPEED	70 mph
LEGAL SPEED	70 mph
DESIGN FUNCTIONAL CLASSIFICATION:	
1 PRINCIPAL ARTERIAL INTERSTATE/ RURAL	
NHS PROJECT	YES

**DESIGN EXCEPTIONS**

NONE

**ADA DESIGN WAIVERS**

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:

**ms consultants, inc.**  
 ENGINEERS, ARCHITECTS & PLANNERS  
 333 E. FEDERAL STREET  
 YOUNGSTOWN, OHIO 44503  
 PHONE (330) 744-5321

**ENGINEER'S SEAL**  
 MOT, TRAFFIC CONTROL,  
 & LIGHTING

STATE OF OHIO  
 KEVIN WILLIAM RYAN  
 E-76915  
 REGISTERED PROFESSIONAL ENGINEER

**INDEX OF SHEETS:**

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GEOTECHNICAL PROFILE	P.152 - P.165

2026-02-17  
 RT SHEETS ADDED  
 P.151A, P.151B

**FEDERAL PROJECT NUMBER**

NON-FEDERAL

**RAILROAD INVOLVEMENT**

NONE

**PROJECT DESCRIPTION**

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF NEW TRUCK PARKING FACILITIES ON I.R. 90 EASTBOUND AND WESTBOUND, LOCATED APPROXIMATELY 0.6 MILES WEST OF THE LAKE/ASHTABULA COUNTY LINE (CLYDE HILL ROAD). SITE DEVELOPMENT IMPROVEMENTS INCLUDE FULL DEPTH PAVEMENT FOR NEW ENTRANCE/EXIT RAMPS AND PARKING AREA. IMPROVEMENTS ALSO INCLUDE STORM SEWER, SIGNING AND PAVEMENT MARKINGS, AND LIGHTING.

**EARTH DISTURBED AREAS**

PROJECT EARTH DISTURBED AREA:	12.79 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	3.68 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	16.47 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.

*John Picuri*  
 John Picuri, P.E., P.S.  
 District 12 Deputy Director

*Pamela Boratyn*  
 Pamela Boratyn  
 Director, Department of Transportation

STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
HL-10.11	7/21/23	MT-104.10	1/19/24	BP-2.1	1/21/22	CB-8	7/19/24	800	7/18/25		
HL-10.12	7/21/23	MT-105.10	1/17/20	BP-2.2	1/15/21			807	1/17/25		
HL-10.13	1/20/23			BP-2.5	7/19/24	DM-1.1	1/17/25	808	7/19/24		
HL-10.31	7/18/25	TC-41.10	7/19/13	BP-3.1	1/19/24	DM-1.2	1/17/25	813	7/21/23		
HL-20.11	7/18/25	TC-41.20	10/18/13	BP-5.1	7/18/25	DM-4.3	1/15/16	821	4/20/12		
HL-20.21	7/18/25	TC-41.30	4/21/23	BP-6.1	7/19/13	DM-4.4	1/15/16	825	7/19/24		
HL-30.11	7/21/23	TC-42.10	10/18/13					832	7/18/25		
HL-30.21	4/17/20	TC-42.20	10/18/13	MGS-2.1	7/18/25	I-2A	7/19/24	850	7/21/23		
HL-40.20	7/18/25	TC-51.11	7/18/25	MGS-4.2	7/18/25			872	1/17/25		
HL-60.11	7/21/17	TC-52.10	10/18/13	MGS-5.2	7/15/16	MH-3	7/19/24	902	7/19/19		
HL-60.21	7/20/18	TC-52.20	1/15/21	MGS-5.3	7/15/16			908	1/17/25		
HL-60.31	7/19/24	TC-65.10	1/17/14					913	4/16/21		
		TC-65.11	1/17/25	F-1.1	7/18/25			921	7/19/24		
MT-95.30	7/18/25	TC-72.20	7/18/25	F-3.3	7/19/13						
MT-95.45	7/21/23	TC-73.20	1/17/25	F-3.4	7/19/13						
MT-101.90	7/17/20			F-3.5	7/18/25						

**ENGINEER'S SEAL**  
 ROADWAY

STATE OF OHIO  
 W. BRIAN HUGHES  
 E-57279  
 REGISTERED PROFESSIONAL ENGINEER

TITLE SHEET

DESIGN AGENCY

**ms**  
 ms consultants, inc.

DESIGNER	TSB
REVIEWER	WBH 11/26/25
PROJECT ID	122879
SHEET	TOTAL
P.1	165

**ROUNDING**

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

**UTILITIES**

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

JOHN ZASSICK  
THE ILLUMINATING COMPANY  
FIRST ENERGY  
BROOKLYN SERVICE CENTER  
3601 RIDGE ROAD  
CLEVELAND, OHIO 44102  
440-546-8706  
jnzassick@firstenergycorp.com

ANDREW R. CROSS, PE, PTOE  
TRAFFIC ENGINEER  
ODOT DISTRICT 12  
DEPARTMENT OF ROADWAY SERVICES  
5500 TRANSPORTATION BOULEVARD  
GARFIELD HEIGHTS, OHIO 44125  
OFFICE: (216) 584-2233  
EMAIL: Andrew.Cross@dot.ohio.gov

**EXISTING PLANS**

EXISTING PLANS ENTITLED LAK-90-21.40/ATB-90-0.00 MAY BE INSPECTED IN THE ODOT DISTRICT 12 OFFICE IN CUYAHOGA COUNTY.

**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**

ALL TREES NEEDING REMOVED WITHIN THE CONSTRUCTION LIMITS WILL BE FELLED BY A SEPARATE CONTRACT PRIOR TO MARCH 31, 2026. REMOVE ALL FELLED TREES INCLUDING REMAINING LIMBS, TRUNKS, AND STUMPS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING, AS PER PLAN. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED.

**SEEDING AND MULCHING**

**2026-02-17  
R1 REVISED NOTE**

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

659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	2,101 CY
659, SEEDING AND MULCHING	18,931 SY
659, REPAIR SEEDING AND MULCHING	947 SY
659, INTER-SEEDING	947 SY
659, COMMERCIAL FERTILIZER	2.64 TON
659, LIME	3.91 ACRES
659, WATER	105 MGAL

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.

**SURVEYING PARAMETERS - OHIO COUNTY COORDINATE SYSTEM (OCCS)**

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE THIS SHEET FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

<b>PROJECT CONTROL</b>	
POSITIONING METHOD:	STATIC GPS (OPUS)
MONUMENT TYPE:	ODOT TYPE B
<b>VERTICAL POSITIONING</b>	
ORTHOMETRIC HEIGHT DATUM:	NAVD88
GEOID:	GEOID18
<b>HORIZONTAL POSITIONING</b>	
REFERENCE FRAME:	NAD83 (2011)
ELLIPSOID:	GRS80
COORDINATE SYSTEM:	ODOT LDP - LAKE COUNTY
MAP PROJECTION:	LAMBERT CONFORMAL CONIC 1 PARALLEL
COMBINED SCALE FACTOR:	1.000031 (PUBLISHED)
ORIGIN OF COORDINATE SYSTEM:	41° 48' 00.00000" N, 81° 15' 00.00000" W

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.

**CONTRACTION AND/OR EXPANSION JOINTS**

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN CONTRACTION AND EXPANSION JOINTS HAVE BEEN DETAILED ON THIS PLAN, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. IN ALL CASES, THE PROVISION OF EXPANSION JOINTS AT ALL MAJOR STRUCTURES INCLUDING THE MAXIMUM SPACING BETWEEN CONTRACTION JOINTS IS IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2 AND THE SPECIFICATIONS.

**ITEM 204 - PROOF ROLLING**

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING	8 HOUR
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**ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING**

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

- SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
- EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSUITABLE SUBGRADE. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO SECTION 204.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS).  
  
IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.
- COMPACT THE SUBGRADE ACCORDING TO C&MS 204.03.
- APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSTABLE SUBGRADE. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.  
  
PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO C&MS 204.06.
- EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO C&MS 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.
- PROOF ROLL THE STABILIZED AREAS ACCORDING TO C&MS 204.06 TO VERIFY STABILITY.
- FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204, EXCAVATION OF SUBGRADE.

**ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E**

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE MASH 2016 TYPE E TANGENTIAL END TREATMENTS FOR TYPE MGS GUARDRAIL AS LISTED UNDER "PRODUCTS ACCEPTED FOR NEW INSTALLATIONS" ON THE ROADWAY APPROVED PRODUCTS LIST POSTED ON ROADWAY ENGINEERING'S WEB PAGE. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. REFER TO THE POSTED SHOP DRAWINGS FOR THE MOST CURRENT APPROVED PRODUCT MODELS.

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. 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. 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.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH SOLID FLUORESCENT YELLOW REBOUNDABLE RETROREFLECTIVE SHEETING, PER CMS 730.191.

WHEN THE FACE OF THE ADJACENT (ATTACHED) GUARDRAIL IS LESS THAN 4' OFFSET FROM THE PROPOSED EDGE LINE, AND PERMITTING SITE CONDITIONS EXIST: THE PROPOSED TYPE E ANCHOR ASSEMBLY SHALL BE INSTALLED AT A CONSISTENT FLARE RATE THROUGH THE FULL LENGTH OF THE SYSTEM. THE FLARE RATE SHALL BE A MAXIMUM OF 25:1 (RESULTING IN A 2' OFFSET). THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE SHOP DRAWINGS, PRODUCT INSTALLATION MANUAL/GUIDANCE, AND AS DIRECTED BY THE ENGINEER.

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.

**UNSTABLE OR UNSUITABLE SOILS FOR PAVEMENT STABILIZATION**

THE FOLLOWING ITEMS AND QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER TO ADDRESS UNSTABLE OR UNSUITABLE SOILS ENCOUNTERED IN THE AREAS OF PAVEMENT CONSTRUCTION:

ITEM 204 - EXCAVATION OF SUBGRADE	894 CY
ITEM 204 - GRANULAR MATERIAL, TYPE B	894 CY
ITEM 204 - GEOTEXTILE FABRIC	2,680 SY

PRIMARY PROJECT CONTROL INFORMATION - COMBINED SCALE FACTOR: 1.000031							
POINT NUMBER	ALIGNMENT	STATION	OFFSET	GROUND COORDINATES		ELEVATION	DESCRIPTION
				U.S. SURVEY FEET			
				NORTHING	EASTING		
CP100	Ⓜ CONST. WB TRUCK RAMP	215+62.28	7.09' LT	314842.8000	229490.1000	813.12	IPINS
CP101	Ⓜ CONST. EB TRUCK RAMP	107+40.18	7.66' RT	314485.0000	226763.1000	803.87	IPINS
CP102	Ⓞ EX. R/W I.R. 90	113+65.72	29.86' LT	314905.9000	230942.1000	815.96	IPINS

DESIGN AGENCY



DESIGNER  
TSB

REVIEWER  
WBH 11/26/25

PROJECT ID  
122879

SHEET TOTAL  
P.7 165





CROSS REFERENCE	
SHEET NO.	DESCRIPTION
P.125	STORM SEWER PROFILES
P.142-P.151	LIGHTING PLAN

**LEGEND:**

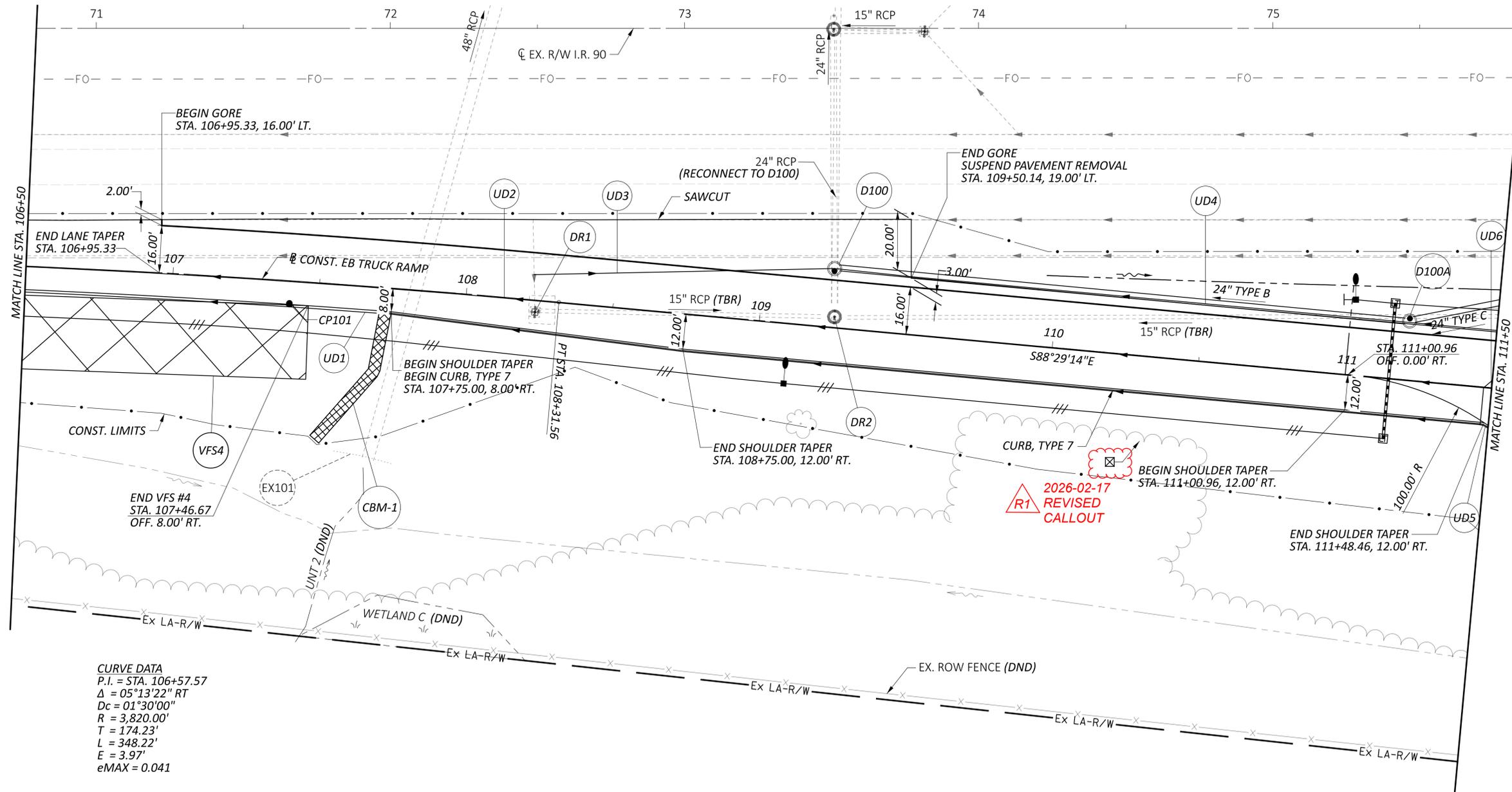
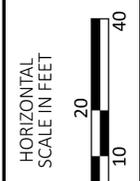
= VEGETATED FILTER STRIP

(DND) = DO NOT DISTURB

(TBR) = TO BE REMOVED

= REMOVAL OF ALL FELLED TREES, LIMBS, TRUNKS AND STUMPS INCLUDED PER ITEM 201 CLEARING AND GRUBBING. SEE NOTE ON P.7 OF THIS PLAN.

2026-02-17  
 REVISED  
 LEGEND



**CURVE DATA**  
 P.I. = STA. 106+57.57  
 $\Delta = 05^{\circ}13'22''$  RT  
 $D_c = 01^{\circ}30'00''$   
 $R = 3,820.00'$   
 $T = 174.23'$   
 $L = 348.22'$   
 $E = 3.97'$   
 $eMAX = 0.041$

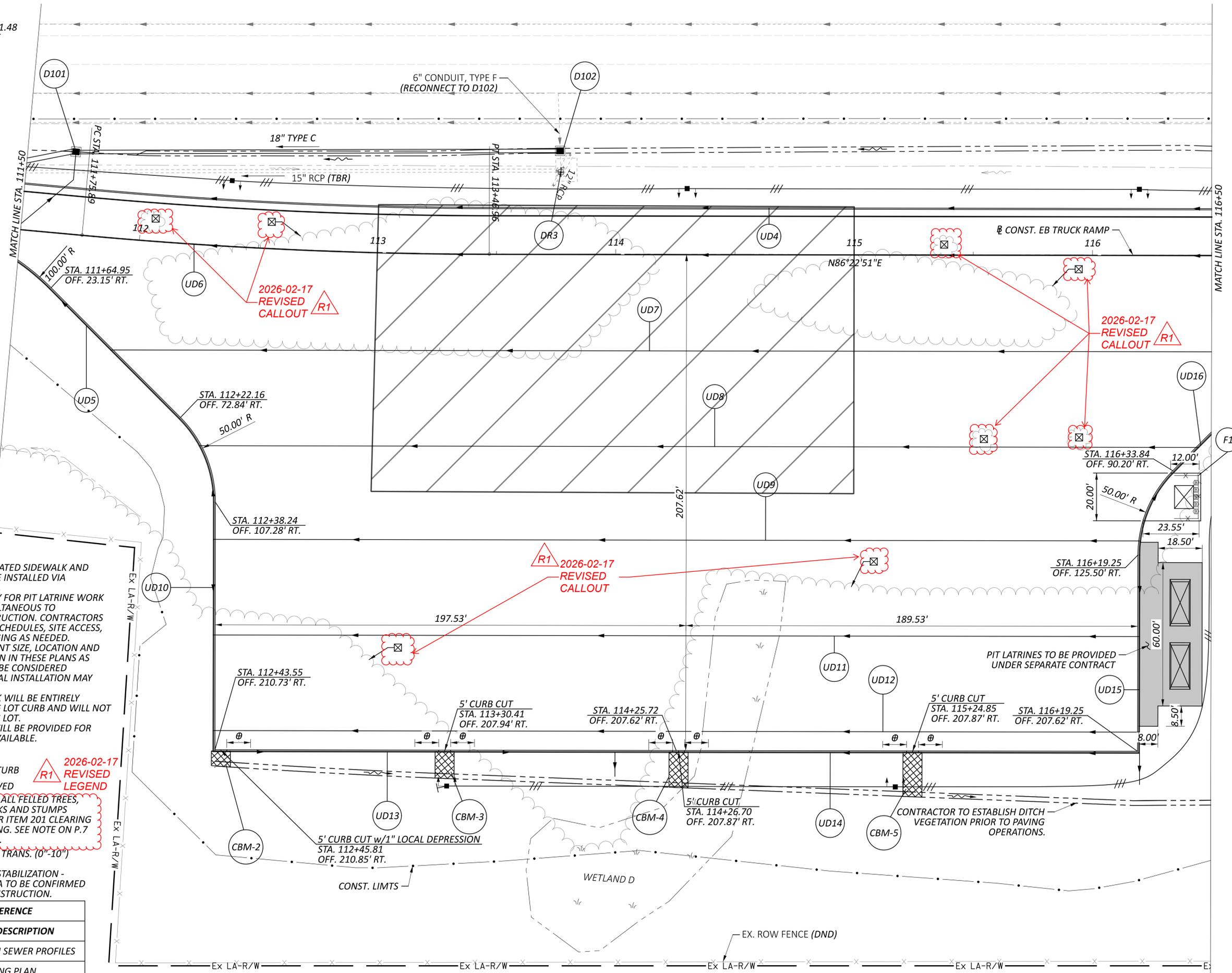
PLAN-EASTBOUND TRUCK PARKING  
 STA. 106+50 TO STA. 111+50

DESIGN AGENCY



DESIGNER	TSB
REVIEWER	WBH 11/26/25
PROJECT ID	122879
SHEET	TOTAL
P.21	165

**CURVE DATA**  
 P.I. = STA. 112+61.48  
 $\Delta = 05^{\circ}07'55''$  LT  
 $D_c = 03^{\circ}00'00''$   
 $R = 1,909.90'$   
 $T = 85.59'$   
 $L = 171.07'$   
 $E = 1.92'$   
 $e_{MAX} = 0.031$



- PIT LATRINE NOTES:**
1. PIT LATRINES, 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 LOT.
  4. PIT LATRINE PLANS WILL BE PROVIDED FOR REFERENCE WHEN AVAILABLE.

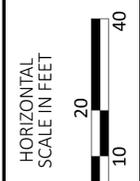
**LEGEND:**

(DND) = DO NOT DISTURB  
 (TBR) = TO BE REMOVED

**REMOVED LEGEND**  
 [Symbol] = REMOVAL OF ALL FELLED TREES, LIMBS, TRUNKS AND STUMPS INCLUDED PER ITEM 201 CLEARING AND GRUBBING. SEE NOTE ON P.7 OF THIS PLAN.  
 @ = 10" CURB HT. TRANS. (0'-10")

[Symbol] = PAVEMENT STABILIZATION - ACTUAL AREA TO BE CONFIRMED DURING CONSTRUCTION.

CROSS REFERENCE	
SHEET NO.	DESCRIPTION
P.125	STORM SEWER PROFILES
P.142-P.151	LIGHTING PLAN



PLAN-EASTBOUND TRUCK PARKING  
 STA. 111+50 TO STA 116+50

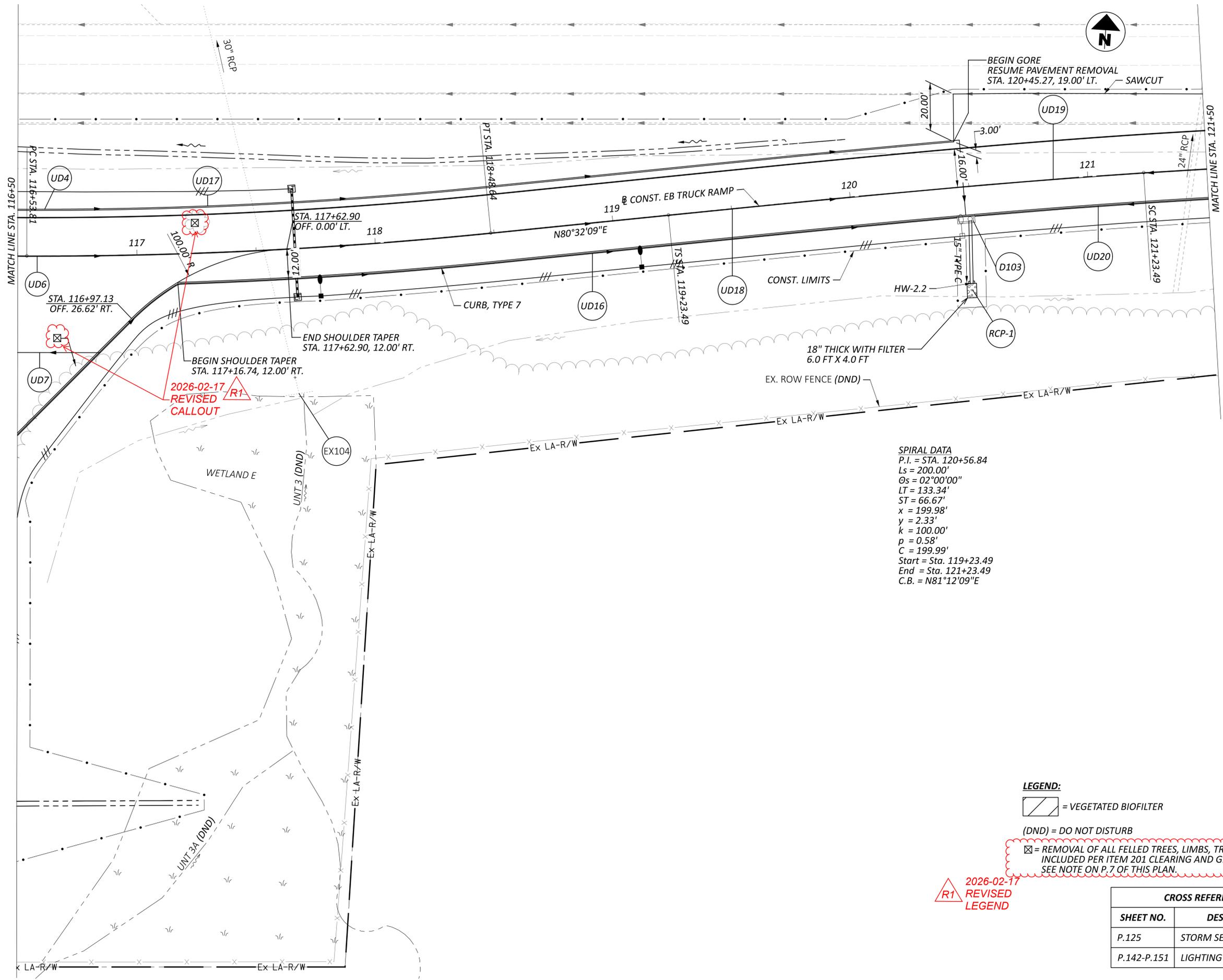


DESIGN AGENCY	ms consultants, inc.
DESIGNER	TSB
REVIEWER	WBH 11/26/25
PROJECT ID	122879
SHEET	P.22
TOTAL	165

LAK-IR 90 VACANT REST AREAS TP

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**CURVE DATA**  
 P.I. = STA. 117+51.31  
 $\Delta = 05^{\circ}50'42''$  LT  
 $D_c = 03^{\circ}00'00''$   
 $R = 1,909.90'$   
 $T = 97.50'$   
 $L = 194.83'$   
 $E = 2.49'$   
 $eMAX = 0.031$



**SPIRAL DATA**  
 P.I. = STA. 120+56.84  
 $L_s = 200.00'$   
 $\theta_s = 02^{\circ}00'00''$   
 $LT = 133.34'$   
 $ST = 66.67'$   
 $x = 199.98'$   
 $y = 2.33'$   
 $k = 100.00'$   
 $p = 0.58'$   
 $C = 199.99'$   
 Start = Sta. 119+23.49  
 End = Sta. 121+23.49  
 C.B. =  $N81^{\circ}12'09''E$

**LEGEND:**

= VEGETATED BIOFILTER

(DND) = DO NOT DISTURB

= REMOVAL OF ALL FELLED TREES, LIMBS, TRUNKS AND STUMPS INCLUDED PER ITEM 201 CLEARING AND GRUBBING. SEE NOTE ON P. 7 OF THIS PLAN.

2026-02-17  
 R1 REVIS  
 LEGEND

CROSS REFERENCE	
SHEET NO.	DESCRIPTION
P.125	STORM SEWER PROFILES
P.142-P.151	LIGHTING PLAN



PLAN-EASTBOUND TRUCK PARKING  
 STA. 116+50 TO STA. 121+50

DESIGN AGENCY



DESIGNER  
 TSB  
 REVIEWER  
 WBH 11/26/25  
 PROJECT ID  
 122879  
 SHEET TOTAL  
 P.23 165

CROSS REFERENCE	
SHEET NO.	DESCRIPTION
P.126-P.127	STORM SEWER PROFILES
P.142-P.151	LIGHTING PLAN

**LEGEND:**

= VEGETATED FILTER STRIP

(DND) = DO NOT DISTURB

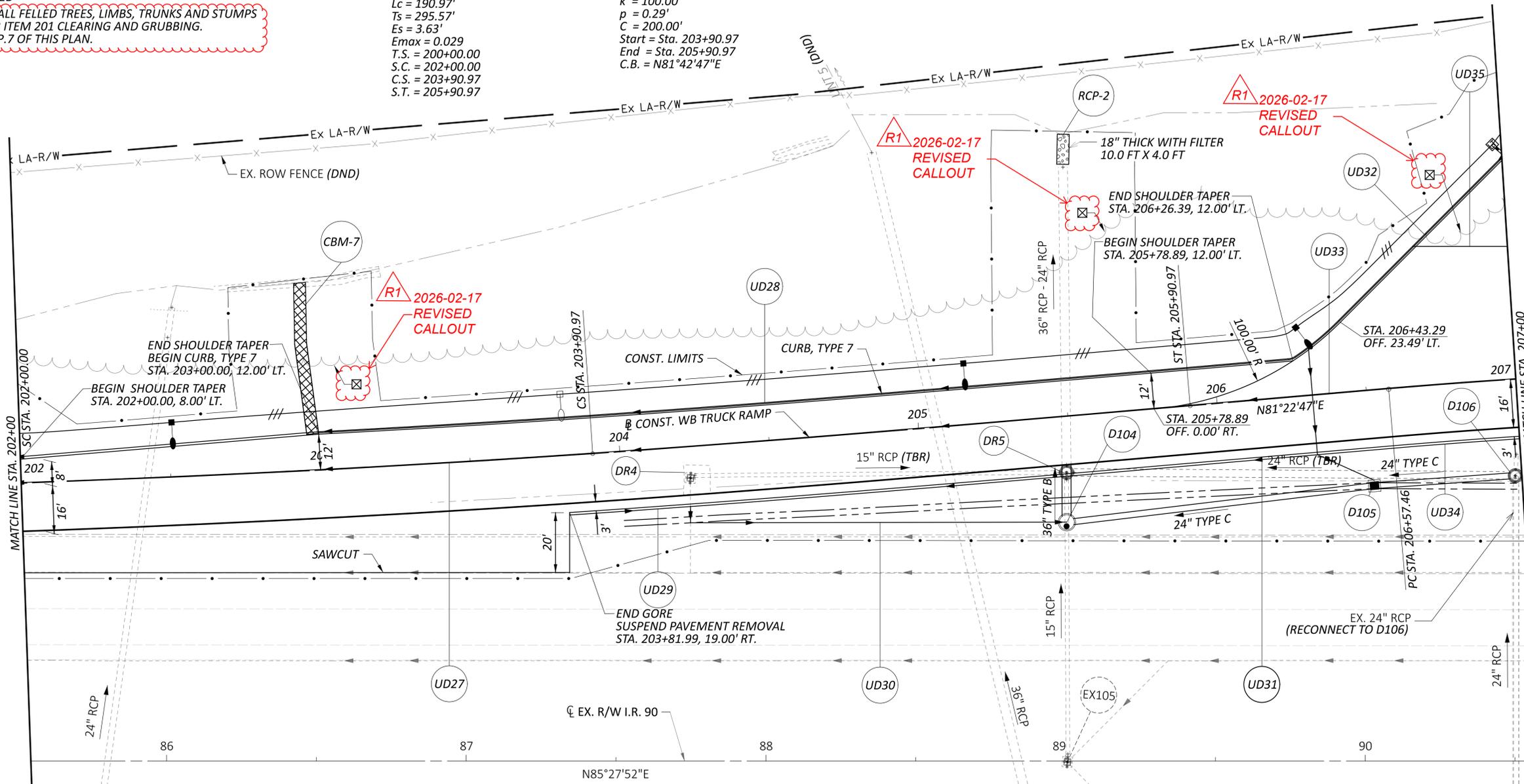
(TBR) = TO BE REMOVED

= REMOVAL OF ALL FELLED TREES, LIMBS, TRUNKS AND STUMPS INCLUDED PER ITEM 201 CLEARING AND GRUBBING. SEE NOTE ON P.7 OF THIS PLAN.

2026-02-17 REVISED LEGEND

**CURVE DATA**  
 P.I. = STA. 202+95.57  
 $\Delta = 03^{\circ}54'34''$  LT  
 $Dc = 01^{\circ}00'00''$   
 $R = 5,730.00'$   
 $Ls = 200.00'$   
 $Os = 01^{\circ}00'00''$   
 $LT = 133.34'$   
 $ST = 66.67'$   
 $Lc = 190.97'$   
 $Ts = 295.57'$   
 $Es = 3.63'$   
 $E_{max} = 0.029$   
 $T.S. = 200+00.00$   
 $S.C. = 202+00.00$   
 $C.S. = 203+90.97$   
 $S.T. = 205+90.97$

**SPIRAL DATA**  
 P.I. = STA. 204+57.64  
 $Ls = 200.00'$   
 $LT = 133.34'$   
 $ST = 66.67'$   
 $x = 199.98'$   
 $y = 2.33'$   
 $k = 100.00'$   
 $p = 0.29'$   
 $C = 200.00'$   
 $Start = Sta. 203+90.97$   
 $End = Sta. 205+90.97$   
 $C.B. = N81^{\circ}42'47''E$



PLAN-WESTBOUND TRUCK PARKING  
 STA. 202+00 TO STA. 207+00

DESIGN AGENCY  
  
 ms consultants, inc.  
 DESIGNER  
 TSB  
 REVIEWER  
 WBH 11/26/25  
 PROJECT ID  
 122879  
 SHEET TOTAL  
 P.33 165

CROSS REFERENCE	
SHEET NO.	DESCRIPTION
P.126-P.127	STORM SEWER PROFILES
P.142-P.151	LIGHTING PLAN

**LEGEND:**

(DND) = DO NOT DISTURB

(TBR) = TO BE REMOVED

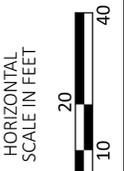
☒ = REMOVAL OF ALL FELLED TREES, LIMBS, TRUNKS AND STUMPS INCLUDED PER ITEM 201 CLEARING AND GRUBBING. SEE NOTE ON P.7 OF THIS PLAN.

⊕ = 10' CURB HT. TRANS. (0"-10")

**R1 2026-02-17 REVISED LEGEND**

**PIT LATRINE NOTES:**

1. PIT LATRINES, 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 LOT.
4. PIT LATRINE PLANS WILL BE PROVIDED FOR REFERENCE WHEN AVAILABLE.

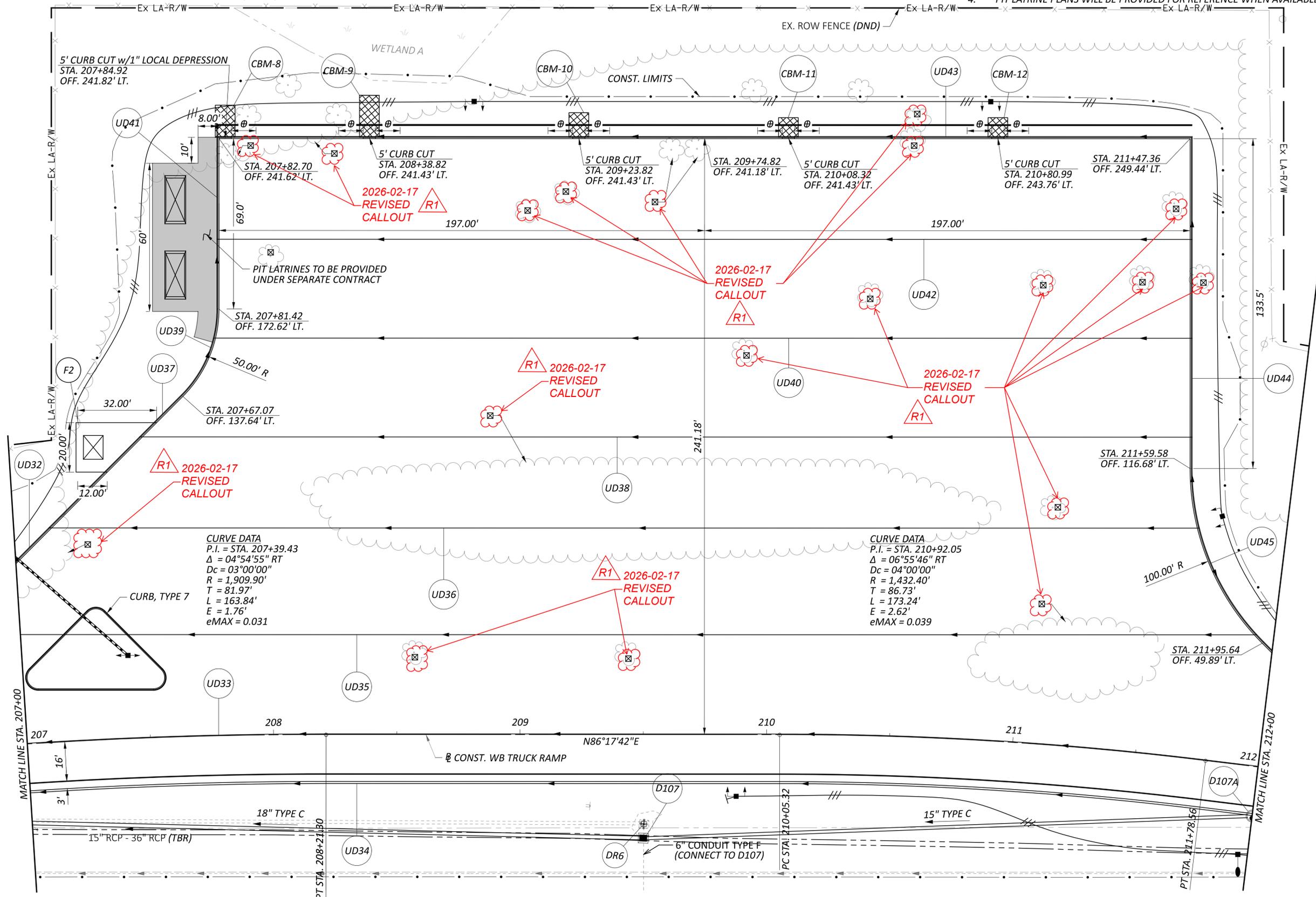


**PLAN-WESTBOUND TRUCK PARKING**  
 STA. 207+00 TO STA. 212+00

DESIGN AGENCY



DESIGNER	TSB
REVIEWER	WBH 10/17/25
PROJECT ID	122879
SHEET	TOTAL
P.34	165



**CURVE DATA**  
 P.I. = STA. 207+39.43  
 $\Delta = 04^{\circ}54'55''$  RT  
 $D_c = 03^{\circ}00'00''$   
 $R = 1,909.90'$   
 $T = 81.97'$   
 $L = 163.84'$   
 $E = 1.76'$   
 $eMAX = 0.031$

**CURVE DATA**  
 P.I. = STA. 210+92.05  
 $\Delta = 06^{\circ}55'46''$  RT  
 $D_c = 04^{\circ}00'00''$   
 $R = 1,432.40'$   
 $T = 86.73'$   
 $L = 173.24'$   
 $E = 2.62'$   
 $eMAX = 0.039$

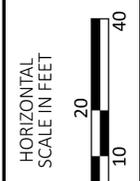
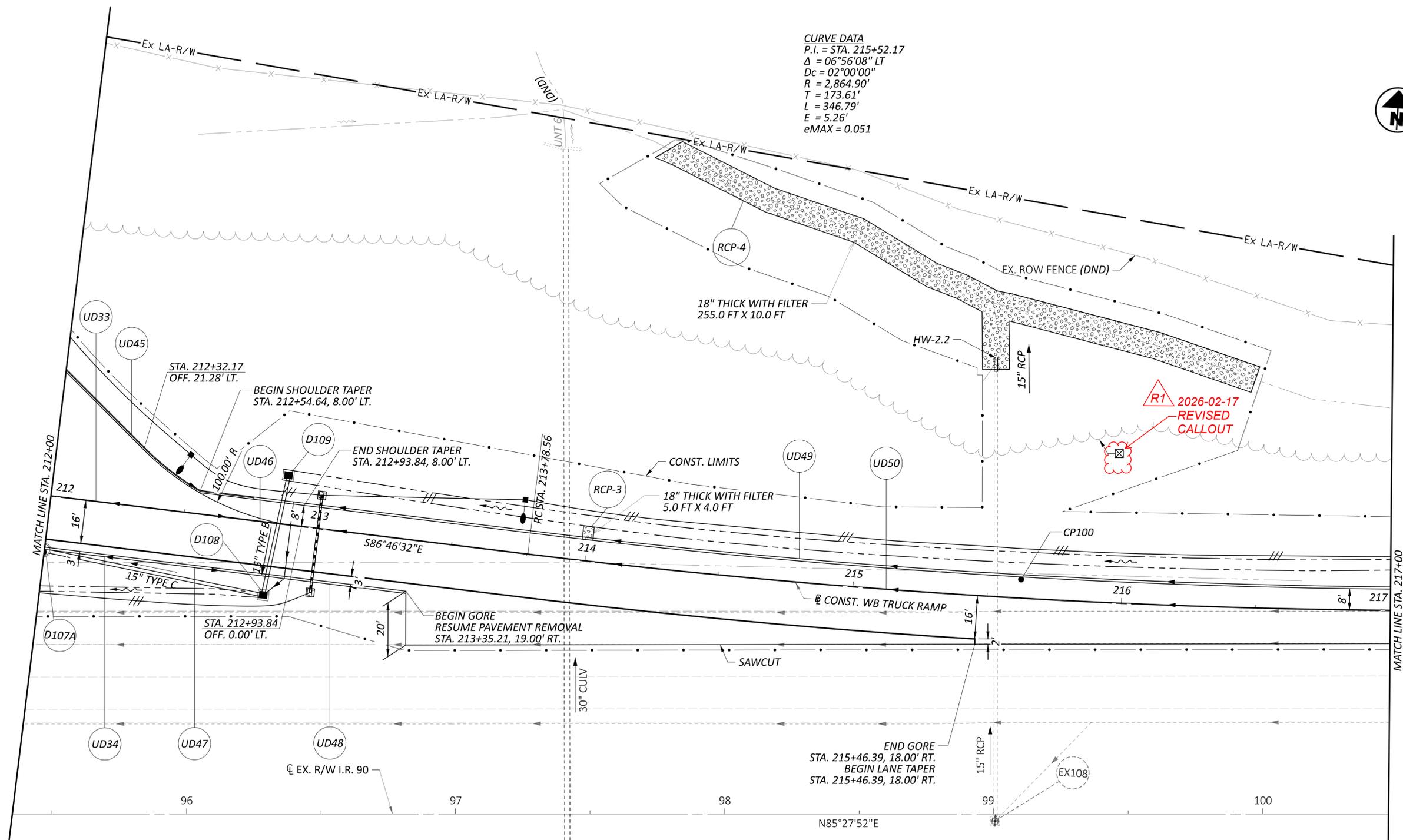
CROSS REFERENCE	
SHEET NO.	DESCRIPTION
P.126-P.127	STORM SEWER PROFILES
P.142-P.151	LIGHTING PLAN

**LEGEND:**

(DND) = DO NOT DISTURB

☒ = REMOVAL OF ALL FELLED TREES, LIMBS, TRUNKS AND STUMPS INCLUDED PER ITEM 201 CLEARING AND GRUBBING. SEE NOTE ON P.7 OF THIS PLAN.

**R1** 2026-02-17  
REVISED  
LEGEND



PLAN-WESTBOUND TRUCK PARKING  
 STA. 212+00 TO STA. 217+00

DESIGN AGENCY	
DESIGNER	TSB
REVIEWER	WBH 10/17/25
PROJECT ID	122879
SHEET	TOTAL
P.35	165

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. AT LEAST 48 HOURS BEFORE DIGGING, THE CONTRACTOR SHALL CALL THE OHIO UTILITIES PROTECTION SERVICE, TOLL-FREE, 800-362-2764. NON-MEMBER UTILITY COMPANIES MUST BE CALLED DIRECTLY. SEE SHEET P.7 FOR ADDITIONAL UTILITY INFORMATION.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIAL OR PERFORM WORK FOR PLAN ITEMS SET UP TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER.

ITEM 625, TRENCH, 24" DEEP

TRENCH SHALL BE AS PER 625.13. IN ADDITION, ALL TRENCHING IN PAVED AREAS AND AREAS TO BE PAVED SHALL BE PERFORMED PRIOR TO THE PLACEMENT OF PAVEMENT.

PADLOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYPED 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 SHALL APPLY.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

POWER COMPANY: FIRST ENERGY CORP - THE ILLUMINATING COMPANY  
ADDRESS: 3601 RIDGE RD., CLEVELAND, OH 44102  
PHONE #: 440-546-8706  
CONTACT NAME: JOHN ZASSICK

POWER SERVICE: 480 VOLT, 3-WIRE, SINGLE PHASE, GROUNDED NEUTRAL. THIS PROJECT HAS BEEN DESIGNED ON THE BASIS OF 5% VOLTAGE DROP WITH A MAXIMUM UNIFORMITY RATIO OF 4.0 TO 1.0 FOR CONVENTIONAL UNITS AND 3.0 TO 1.0 FOR HIGH MAST UNITS.

ALL GROUND MOUNTED POWER SERVICES SHALL BE METERED. THE METER BASE MOUNTING HEIGHT SHALL BE NO MORE THAN FIVE (5) FEET HIGH TO THE CENTER OF THE METER BASE FROM THE GROUND. THE POWER SERVICE SHALL BE BUILT PER SCD HL-40.20. A NON-FUSED DISCONNECT SHALL BE INSTALLED ON THE POWER SIDE OF THE METER BASE. THE CONTRACTOR SHALL SUPPLY THE NECESSARY METER BASES AND DISCONNECT SWITCHES.

THE CONTRACTOR SHALL PAY ALL ELECTRICAL ENERGY CHARGES FOR NEW POWER SERVICES ESTABLISHED BY THIS PROJECT. UPON COMPLETION OF THIS PROJECT AND AFTER WRITTEN AUTHORIZATION FROM THE DISTRICT CONSTRUCTION ENGINEER, POWER SERVICE ELECTRICAL ENERGY ACCOUNTS SHALL BE TRANSFERRED TO THE MAINTAINING AGENCY. IF POWER SERVICE IS TRANSFERRED PRIOR TO RECEIVING THE WRITTEN AUTHORIZATION, A DISINCENTIVE OF \$100 PER DAY SHALL BE ASSESSED FOR EACH CALENDAR DAY OF NON-COMPLIANCE.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH C&MS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625, ARC FLASH CALCULATIONS AND LABEL, (BY LOCATION)

THE CONTRACTOR SHALL SATISFY THE REQUIREMENTS OF ODOT SUPPLEMENTAL SPECIFICATION 825 FOR EACH OF THE NEW LIGHTING CONTROL CENTERS INDICATED IN THE PLANS.

THE CONTRACTOR MAY BE ABLE TO OBTAIN LABELS FOR ODOT MAINTAINED INSTALLATIONS FROM THE ODOT SIGN SHOP, 1606 WEST BROAD STREET, COLUMBUS, OH 43223. FOR NON-ODOT MAINTAINED INSTALLATIONS, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE LABEL, MADE FROM "ENGINEER GRADE" SIGN SHEETING OR AN EQUIVALENT COMMERCIAL LABEL MATERIAL.

THE ODOT OFFICE OF ROADWAY ENGINEERING HAS AN EXCEL SPREADSHEET, AVAILABLE UPON REQUEST, TO ASSIST WITH MAKING AND DOCUMENTING THE REQUIRED CALCULATIONS.

METHOD OF MEASUREMENT SHALL BE PER 825.06.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ARC FLASH CALCULATIONS AND LABEL (CC-'TE')	1 EACH
ARC FLASH CALCULATIONS AND LABEL (CC-'TW')	1 EACH

ITEM 625, LIGHT POLE (INSTALLATION ONLY), AS PER PLAN, CONVENTIONAL, AT20B40ITEM 625, LIGHT POLE (INSTALLATION ONLY), AS PER PLAN, HIGH MAST, BB45

LIGHT TOWERS, LIGHT POLES, AND BRACKET ARMS WILL BE AVAILABLE ON THIS PROJECT FOR PICKUP BY THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT TOM HENDERSON AT 216-630-3651 TO OBTAIN THIS MATERIAL. THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO PICK UP THE MATERIAL FROM ODOT'S YARD AT 10 BLACKBROOK ROAD, PAINESVILLE, OH 44077. ALL ITEMS SHALL BE INSTALLED PER ODOT'S STANDARDS AND SPECIFICATIONS.

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

FOR THE 45-FOOT TALL HIGH-MAST LIGHT TOWERS, AT ALL LOCATIONS, PERFORM DRILLED SHAFT FOUNDATION EXCAVATION AND CONSTRUCTION IN ACCORDANCE WITH C&MS 524. PREDOMINANTLY COHESIVE SOILS WERE ENCOUNTERED IN ALL THE NEARBY PROJECT SOIL BORINGS (B-004-25 THROUGH B-008-0-25 AT THE EASTBOUND PARKING AREA AND B-017-0-25 THROUGH B-022-0-25 AT THE WESTBOUND PARKING AREA), SO FOUNDATION EXCAVATION BY THE DRY CONSTRUCTION METHOD, IN ACCORDANCE WITH C&MS 524.04.A, MAY BE ANTICIPATED. SEE THE ATTACHED SOIL BORINGS FOR SPECIFIC DETAILS. AT ALL LIGHT TOWER LOCATIONS, THE DRILLED SHAFTS SHALL BE 36-INCH DIAMETER AND PENETRATE 8 FEET DEEP INTO THE GROUND BELOW FINISHED GRADE (EXCLUSIVE OF ANY ABOVE-GRADE PEDESTAL HEIGHT FOR MOUNTING). STEEL REINFORCEMENT FOR THE DRILLED SHAFT FOUNDATIONS SHALL BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING HL-20.21.

ITEM 625, DISTRIBUTION CABLE, MISC.: NO. 4/0 AWG 600 VOLT

THIS ITEM SHALL MEET THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIALS SPECIFICATIONS 625 AND THE CABLE SIZE SHALL BE NO. 4/0 AWG.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT BID PRICE PER FOOT OF C&MS ITEM 625 "DISTRIBUTION CABLE, MISC.: NO. 4/0 AWG 600 VOLT" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625, CONDUIT, JACKED OR DRILLED, 725.052, AS PER PLAN

THIS ITEM SHALL MEET THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIALS SPECIFICATIONS 625 EXCEPT THE CONDUIT SHALL BE SCHEDULE 80.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT BID PRICE PER FOOT OF C&MS ITEM 625 "CONDUIT, JACKED OR DRILLED, 725.052, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

R1

2026-02-17, NOTES ADDED

ITEM 625, LUMINAIRE, HIGH MAST, SOLID STATE (LED), IES-III, LED, 39,000-48,500 LUMENS, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIALS SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATION 813 AND 913, LUMINAIRES FOR HIGH MAST LIGHTING SHALL BE AS FOLLOWS:

LUMINAIRES SHALL BE HOLOPHANE, 295W, (HMLD4-P2-30K-HVOLT-HGR-FTA), COOPER, 330W, (CST-CA8-330-730-8-T3-AP), OR APPROVED EQUAL BY THE ENGINEER.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH C&MS ITEM 625 "LUMINAIRE, HIGH MAST, SOLID STATE (LED), IES-III, LED, 39,000-48,500 LUMENS, AS PER PLAN" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625, LUMINAIRE, HIGH MAST, SOLID STATE (LED), IES-V, LED, 61,000-64,000 LUMENS, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIALS SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATION 813 AND 913, LUMINAIRES FOR HIGH MAST LIGHTING SHALL BE AS FOLLOWS:

LUMINAIRES SHALL BE HOLOPHANE, 429W, (HMLD4-P3-30K-HVOLT-HGR-AW), COOPER, 400W, (CST-CA8-400-730-8-5-AP), OR APPROVED EQUAL BY THE ENGINEER.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH C&MS ITEM 625 "LUMINAIRE, HIGH MAST, SOLID STATE (LED), IES-V, LED, 61,000-64,000 LUMENS, AS PER PLAN" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625, LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), IES-III, LED, 10,000-12,000 LUMENS, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIALS SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATION 813 AND 913, LUMINAIRES FOR CONVENTIONAL LIGHTING SHALL BE AS FOLLOWS:

LUMINAIRES SHALL BE AMERICAN ELECTRIC LIGHTING, 81W, (ATBM-P10-480-R2-3K), COOPER, 82W, (VERD-CA2-80-730-U-T3), OR APPROVED EQUAL BY THE ENGINEER.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH C&MS ITEM 625 "LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), IES-III, LED, 10,000-12,000 LUMENS, AS PER PLAN" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

DESIGN AGENCY



DESIGNER

KJF

REVIEWER

KWR 11/26/25

PROJECT ID

122879

SHEET TOTAL

P.142 | 165

SHEET NO.	STATION		SIDE	POLE/PULL BOX NO.																				
	ML - MATCHLINE 90 = I-90 EB = EASTBOUND TRUCK PARKING																							
	FROM	TO			CONNECTION, FUSED PULL APART	CONNECTION, UNFUSED PERMANENT	LIGHT POLE (INSTALLATION ONLY), AS PER PLAN, CONVENTIONAL, ATZ0B40	LIGHT POLE (INSTALLATION ONLY), AS PER PLAN, HIGH MAST, BB45	LIGHT POLE FOUNDATION, 24" X 8' DEEP	LIGHT TOWER FOUNDATION, MISC.: 36" X 8' DEEP	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	CONDUIT, 3", 725.04	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (IES-III, LED, 10,000-12,000 LUMENS)	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN (IES-III, LED, 39,000-48,500 LUMENS)	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN (IES-V, LED, 61,000-64,000 LUMENS)	TRENCH, 24" DEEP	PULL BOX, 725.08, 18"	GROUND ROD	POWER SERVICE, AS PER PLAN	UNDERGROUND WARNING/MARKING TAPE		
EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	FT				
P.145	CKT 'TE'																							
	100+00	104+54	RT	TE-1	2	1	1			180		1						1						
	100+00	104+54	RT	TE-1 - PB-1							464					454					454			
	104+54	109+10	RT	PB-1		3											1							
P.146	104+54	109+10	RT	PB-1 - TE-2							465				455						455			
	109+10	110+25	RT	TE-2	2	1	1			180		1						1						
	109+10	110+25	RT	TE-2 - ML							132					127					127			
	110+25	111+15	RT	ML - PB-2							95					90					90			
	111+15	111+15	RT	PB-2		3											1							
	111+15	111+15	R/L	PB-2 - PB-3					168			46				46					46			
	111+15	111+15	LT	PB-3		3											1							
	75+28 '90'		RT	TE-3	2	1	1			180			1						1					
	75+28	111+15 'EB'	R/L	TE-3 - PB-3							24					14					14			
	111+15	112+37	LT	PB-3 - TE-4							132					122					122			
	112+37	112+37	LT	TE-4			1		1					2				2						
	112+37	114+30.00	LT	TE-4 - TE-5							201					191			2		191			
	114+30	114+30	LT	TE-5			1		1					2				2						
	114+30	116+20	LT	TE-5 - TE-6							200					190			2		190			
	116+30	116+30	LT	TE-6			1		1					2				2						
	116+30	117+66	LT	TE-6 - PB-4							155					145					145			
117+66	117+66	LT	PB-4		3											1								
117+66	117+66	L/R	PB-4 - PB-5					168			46				46					46				
117+66	117+66	RT	PB-5		3											1								
113+31	113+31	RT	TE-7			1		1					2				2							
113+31	115+18	RT	TE-7 - TE-8							198				2		188			2		188			
115+18	115+18	RT	TE-8			1		1						2										
115+18	117+66	RT	TE-8 - PB-5							397					387					387				
117+66	117+75	RT	PB-5 - TE-9							20					10					10				
117+75	117+75	RT	TE-9	2	1	1			180			1					1							
117+75	119+10	RT	TE-9 - TE-10							145					135					135				
119+10	119+10	RT	TE-10	2	1	1			180			1					1							
119+10	121+81	RT	TE-10 - TE-11							280					270					270				
121+81	121+81	RT	TE-11	2	1	1			180			1					1							
121+81	122+78	RT	TE-11 - ML							100					95					95				
122+78	88+75 '90'	RT	ML - TE-12							180					175					175				
88+75	88+75	RT	TE-12	2	1	1			180			1					1							
88+75	91+45	RT	TE-12 - TE-13							280					270					270				
91+45	91+45	RT	TE-13	2	1	1			180			1					1							
91+45	94+15	RT	TE-13 - TE-14							280					270					270				
94+15	94+15	RT	TE-14	2	1	1			180			1					1							
94+15	96+85	RT	TE-14 - TE-15							280					270					270				
96+85	96+85	RT	TE-15	2	1	1			180			1					1							
96+85	99+54	RT	TE-15 - TE-16							280					270					270				
99+54	99+54	RT	TE-16	2	1	1			180			1					1							
99+54	101+31	RT	TE-16 - PB-4							186					176					176				
101+31	101+31	RT	PB-4		3																			
101+31	101+31	RT	PB-4 - CC-'TE'					87			14				14					14				
101+31	101+31	RT	CC-'TE'															1						
TOTALS CARRIED TO GENERAL SUMMARY					22	18	11	5	11	5	423	1980	4494	106	11	10	4410	5	21	1	4410			

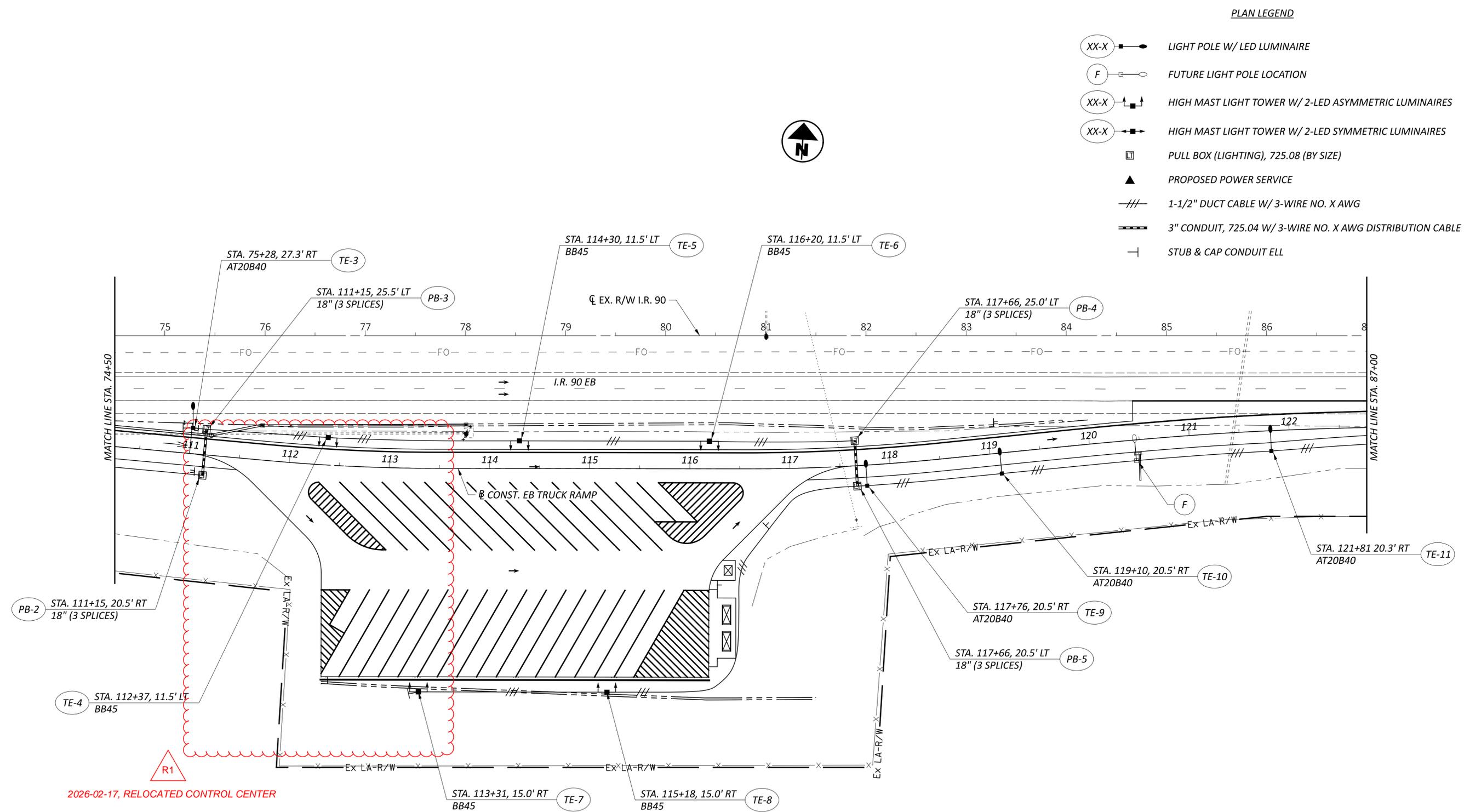
R1 2026-02-17, QUANTITIES REVISED

R1 2026-02-17, QUANTITIES REVISED

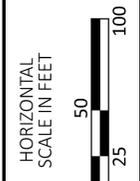
LIGHTING SUBSUMMARY (CIRCUIT 'TE')

DESIGN AGENCY  
  
 ms consultants, inc.  
 DESIGNER  
 KJF  
 REVIEWER  
 KWR 11/26/25  
 PROJECT ID  
 122879  
 SHEET TOTAL  
 P.143 165





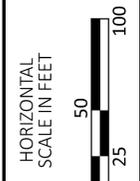
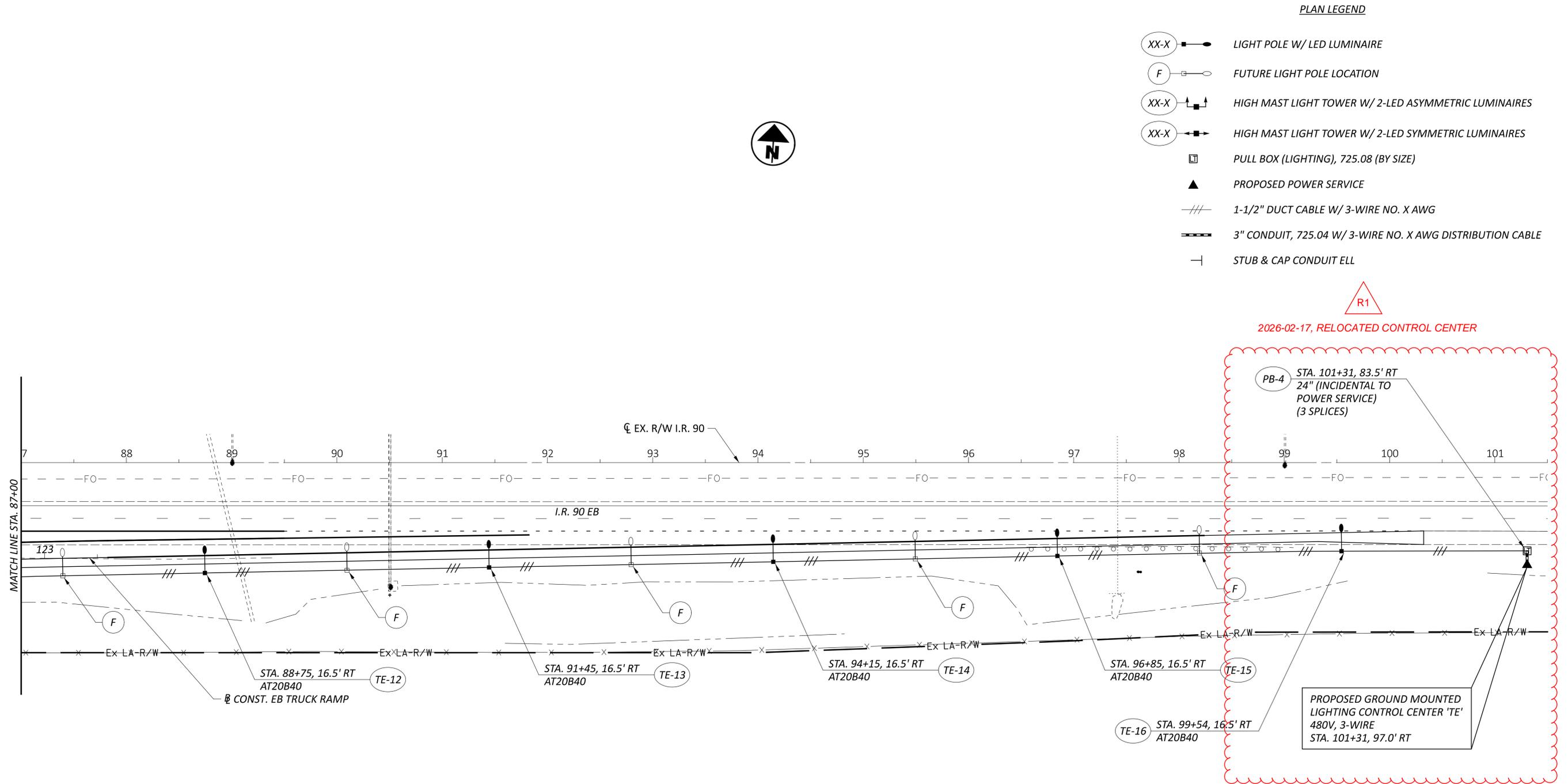
- PLAN LEGEND**
- XX-X LIGHT POLE W/ LED LUMINAIRE
  - F FUTURE LIGHT POLE LOCATION
  - XX-X HIGH MAST LIGHT TOWER W/ 2-LED ASYMMETRIC LUMINAIRES
  - XX-X HIGH MAST LIGHT TOWER W/ 2-LED SYMMETRIC LUMINAIRES
  - PULL BOX (LIGHTING), 725.08 (BY SIZE)
  - ▲ PROPOSED POWER SERVICE
  - 1-1/2" DUCT CABLE W/ 3-WIRE NO. X AWG
  - 3" CONDUIT, 725.04 W/ 3-WIRE NO. X AWG DISTRIBUTION CABLE
  - |— STUB & CAP CONDUIT ELL



**LIGHTING PLAN - EASTBOUND TRUCK PARKING**  
 I.R. 90 - STA. 74+50 TO STA. 87+00

- NOTES:**
1. OFFSETS TO LIGHT POLES/TOWERS ARE FROM NEAREST EOP.
  2. OFFSETS TO PULL BOXES ARE FROM  $\frac{R}{C}$ .

DESIGN AGENCY	
DESIGNER	
KJF	
REVIEWER	
KWR 11/26/25	
PROJECT ID	
122879	
SHEET	TOTAL
P.146	165



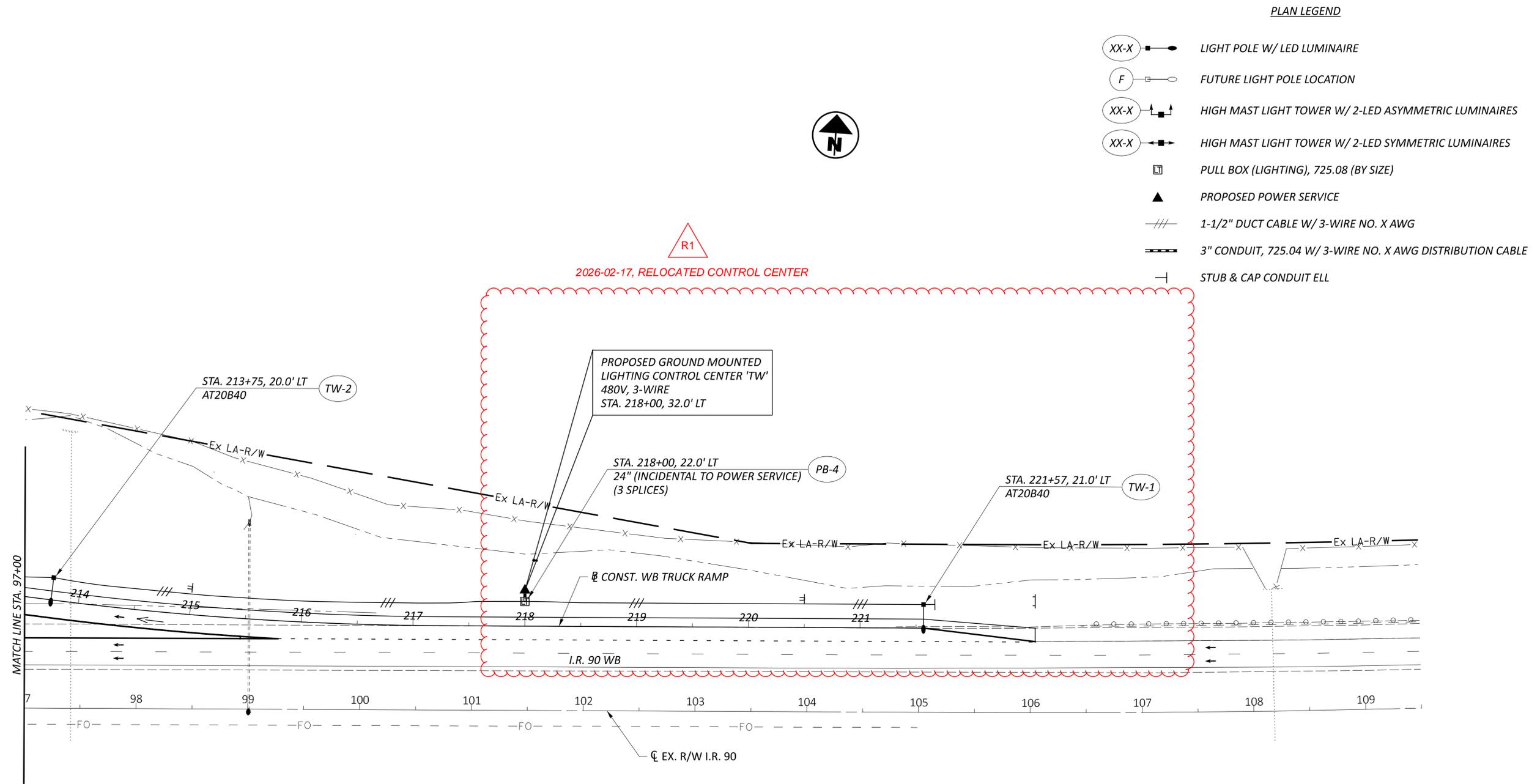
**LIGHTING PLAN - EASTBOUND TRUCK PARKING**  
 I.R. 90 - STA. 87+00 TO STA. 101+50

**NOTES:**

- OFFSETS TO LIGHT POLES/TOWERS ARE FROM NEAREST EOP.
- OFFSETS TO PULL BOXES ARE FROM  $\square/\square$ .

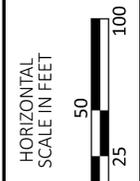


DESIGNER	KJF
REVIEWER	KWR 11/26/25
PROJECT ID	122879
SHEET TOTAL	P.147 165



**PLAN LEGEND**

- XX-X LIGHT POLE W/ LED LUMINAIRE
- F FUTURE LIGHT POLE LOCATION
- XX-X HIGH MAST LIGHT TOWER W/ 2-LED ASYMMETRIC LUMINAIRES
- XX-X HIGH MAST LIGHT TOWER W/ 2-LED SYMMETRIC LUMINAIRES
- PULL BOX (LIGHTING), 725.08 (BY SIZE)
- PROPOSED POWER SERVICE
- 1-1/2" DUCT CABLE W/ 3-WIRE NO. X AWG
- 3" CONDUIT, 725.04 W/ 3-WIRE NO. X AWG DISTRIBUTION CABLE
- STUB & CAP CONDUIT ELL



**LIGHTING PLAN - WESTBOUND TRUCK PARKING**  
I.R.-90 - STA. 97+00 TO STA. 109+50

**NOTES:**

1. OFFSETS TO LIGHT POLES/TOWERS ARE FROM NEAREST EOP.
2. OFFSETS TO PULL BOXES ARE FROM CL/CL.



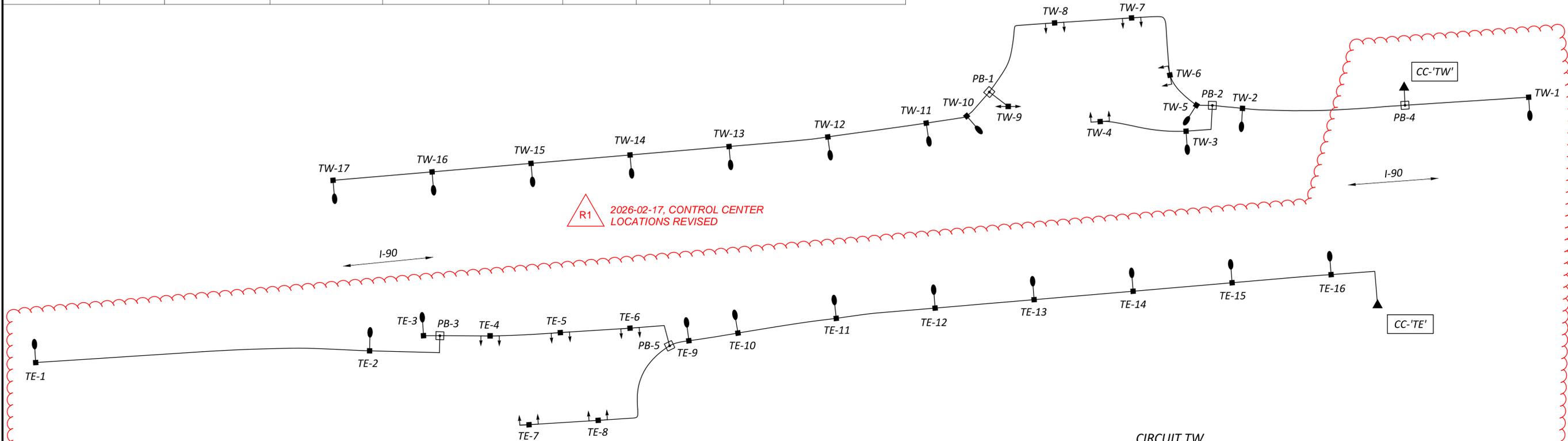
DESIGNER	KJF
REVIEWER	KWR 11/26/25
PROJECT ID	122879
SHEET	TOTAL
P.150	165

CONTROL CENTER DATA

CONTROL CENTER DESIGNATION	LINE VOLTS	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE - AWG	ENCLOSURE RATING (AMPS)	CIRCUIT NO.	CIRCUIT LOAD AMPS	CIRCUIT FUSE SIZE AMPS	CIRCUIT CABLE SIZE AWG	MAINTAINING AGENCY
PROPOSED CC - 'TE'	480	4.2	2	60	1	8.77	20	# 4	ODOT DISTRICT 12
PROPOSED CC - 'TW'	480	4.5	2	60	1	9.35	20	# 4	ODOT DISTRICT 12

SCHEMATIC LEGEND

- LIGHT POLE, CONVENTIONAL
- HIGH MAST TOWER W/2 ASYMMETRIC LED LUMINAIRES
- HIGH MAST TOWER W/2 SYMMETRIC LED LUMINAIRES
- PULL BOX W/ CIRCUIT SPLICES
- POWER SERVICE/CONTROL CENTER



CIRCUIT TE

VOLTAGE: 480V  
WIRE FACTOR USED (TWO - NO. 4 AWG WIRES): 0.62 OHMS/MFT/1000

Section		Design Feet	Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point
From	To		At Point	Accum.			In Section	Accum.		
TE-1	TE-2	920	0.17	0.17	156	4	0.10	11.79	2.46	TE-1
TE-2	PB-3	261	0.17	0.34	89	4	0.06	11.69	2.44	TE-2
TE-3	PB-3	25	0.17	0.17	4	4	0.00	11.64	2.42	TE-3
PB-3	TE-4	132	0.00	0.51	67	4	0.04	11.64	2.42	PB-3
TE-4	TE-5	201	1.38	1.89	380	4	0.24	11.59	2.42	TE-4
TE-5	TE-6	200	1.38	3.27	654	4	0.41	11.36	2.37	TE-5
TE-6	PB-5	200	1.38	4.65	930	4	0.58	10.95	2.28	TE-6
TE-7	TE-8	198	1.38	1.38	273	4	0.17	11.22	2.34	TE-7
TE-8	PB-5	397	1.38	2.76	1,096	4	0.68	11.06	2.30	TE-8
PB-5	TE-9	20	0.00	7.41	148	4	0.09	10.38	2.16	PB-5
TE-9	TE-10	145	0.17	7.58	1,099	4	0.68	10.28	2.14	TE-9
TE-10	TE-11	280	0.17	7.75	2,170	4	1.35	9.60	2.00	TE-10
TE-11	TE-12	280	0.17	7.92	2,218	4	1.37	8.26	1.72	TE-11
TE-12	TE-13	280	0.17	8.09	2,265	4	1.40	6.88	1.43	TE-12
TE-13	TE-14	280	0.17	8.26	2,313	4	1.43	5.48	1.14	TE-13
TE-14	TE-15	280	0.17	8.43	2,360	4	1.46	4.04	0.84	TE-14
TE-15	TE-16	280	0.17	8.60	2,408	4	1.49	2.58	0.54	TE-15
TE-16	CC-'TE'	200	0.17	8.77	1,754	4	1.09	1.09	0.23	TE-16

CIRCUIT TW

VOLTAGE: 480V  
WIRE FACTOR USED (TWO - NO. 4 AWG WIRES): 0.62 OHMS/MFT/1000

Section		Design Feet	Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point
From	To		At Point	Accum.			In Section	Accum.		
TW-17	TW-16	280	0.17	0.17	48	4	0.03	6.89	1.44	TW-17
TW-16	TW-15	280	0.17	0.34	95	4	0.06	6.86	1.43	TW-16
TW-15	TW-14	280	0.17	0.51	143	4	0.09	6.80	1.42	TW-15
TW-14	TW-13	280	0.17	0.68	190	4	0.12	6.71	1.40	TW-14
TW-13	TW-12	280	0.17	0.85	238	4	0.15	6.60	1.37	TW-13
TW-12	TW-11	280	0.17	1.02	286	4	0.18	6.45	1.34	TW-12
TW-11	TW-10	122	0.17	1.19	145	4	0.09	6.27	1.31	TW-11
TW-10	PB-1	100	0.17	1.36	136	4	0.08	6.18	1.29	TW-10
TW-9	PB-1	75	1.79	1.79	134	4	0.08	6.18	1.29	TW-9
PB-1	TW-8	324	0.00	3.15	1,021	4	0.63	6.10	1.27	PB-1
TW-8	TW-7	220	1.38	4.53	997	4	0.62	5.46	1.14	TW-8
TW-7	TW-6	254	1.38	5.91	1,501	4	0.93	4.85	1.01	TW-7
TW-6	TW-5	121	1.38	7.29	882	4	0.55	3.92	0.82	TW-6
TW-5	PB-2	53	0.17	7.46	395	4	0.25	3.37	0.70	TW-5
TW-4	TW-3	245	1.38	1.38	338	4	0.21	3.46	0.72	TW-4
TW-3	PB-2	130	0.17	1.55	202	4	0.12	3.25	0.68	TW-3
PB-2	TW-2	92	0.00	9.01	829	4	0.51	3.12	0.65	PB-2
TW-2	PB-4	433	0.17	9.18	3,975	4	2.46	2.61	0.54	TW-2
TW-1	PB-4	367	0.17	0.17	62	4	0.04	0.18	0.04	TW-1
PB-4	CC-'TW'	25	0.00	9.35	234	4	0.14	0.14	0.03	PB-4

DESIGN AGENCY



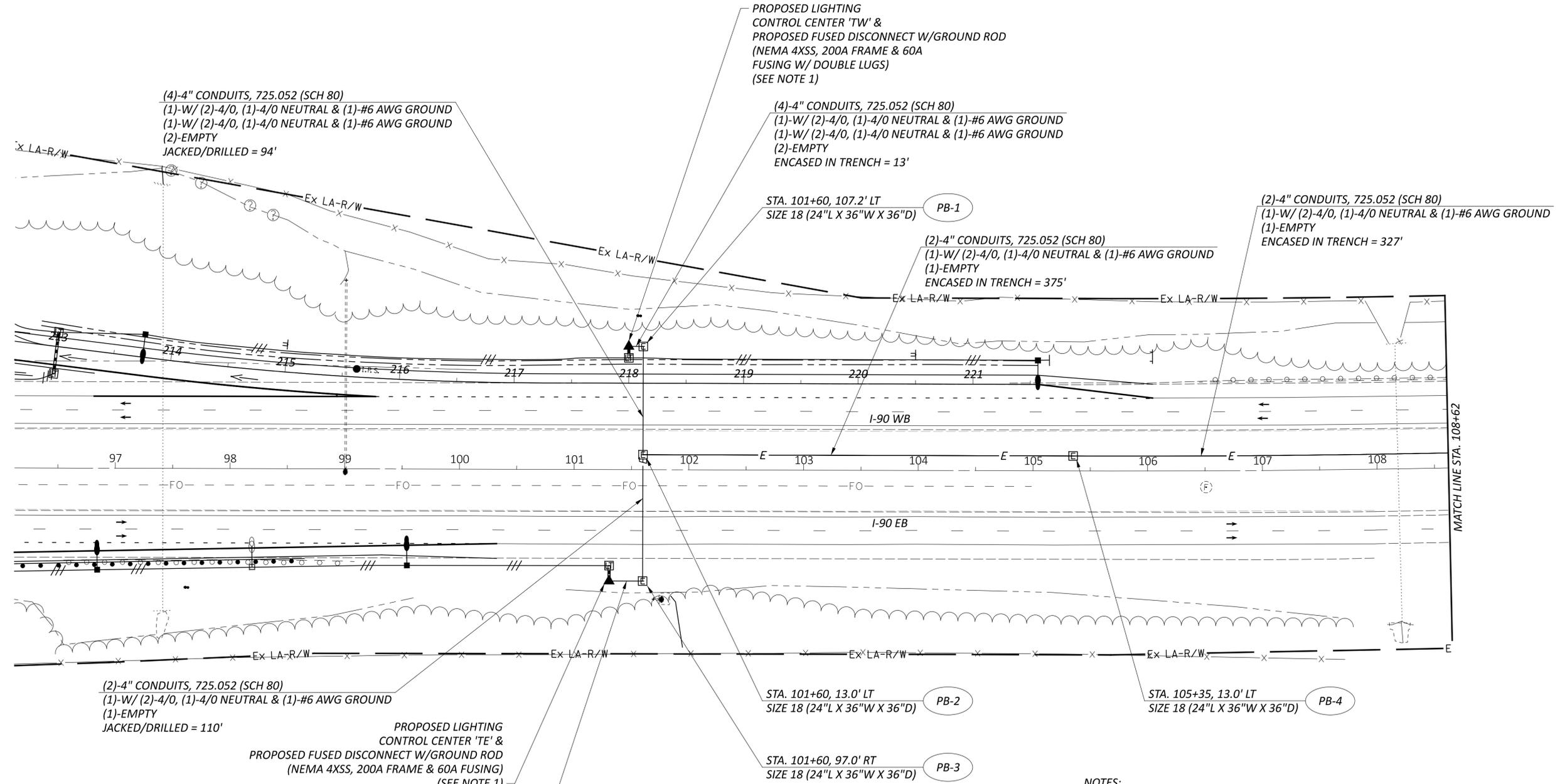
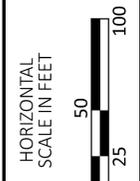
DESIGNER  
KJF

REVIEWER  
KWR 10-17-25

PROJECT ID  
122879

SHEET TOTAL  
P.151 | 165

R1 2026-02-17, ADDED ELECTRICAL SERVICE EXTENSION



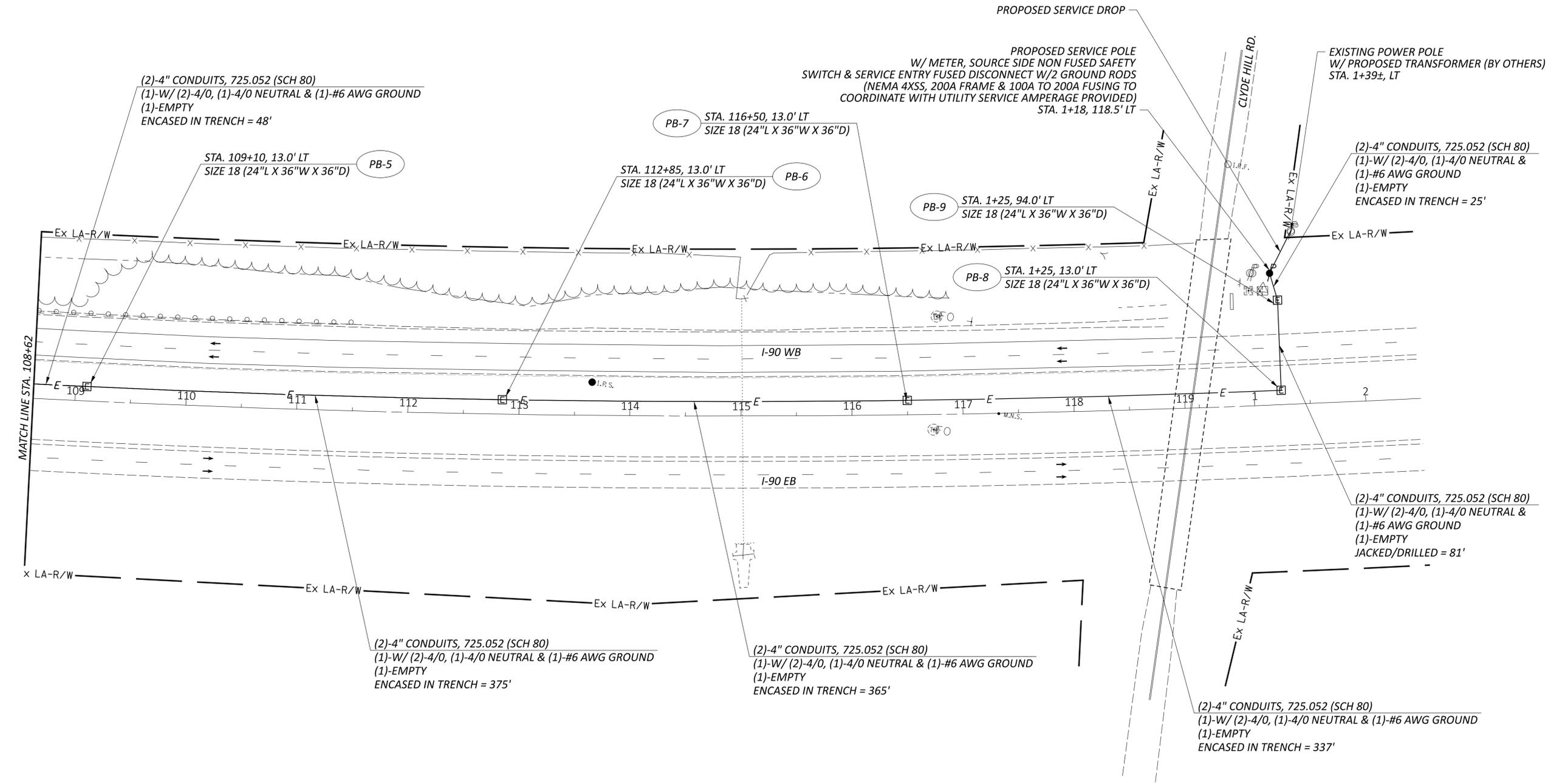
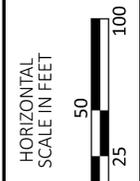
**NOTES:**  
 1. PAYMENT FOR LIGHTING CONTROL CENTER AND FUSED DISCONNECT IS INCLUDED IN THE "POWER SERVICE, AS PER PLAN" PAY ITEM IN THE LIGHTING SUBSUMMARY.

ITEM	DESCRIPTION	UNIT	TOTAL FROM SHEET P.151A	TOTAL FROM SHEET P.151B	TOTAL CARRIED TO GENERAL SUMMARY
625	NO. 6 AWG 600 VOLT DISTRIBUTION CABLE	FT	1188	1314	2502
625	DISTRIBUTION CABLE, MISC.: NO. 4/0 AWG 600 VOLT	FT	3564	3942	7506
625	CONDUIT, CONCRETE ENCASED, 4"	FT	1610	2204	3814
625	CONDUIT, JACKED OR DRILLED, 725.052, AS PER PLAN (4")	FT	596	162	758
625	TRENCH, 36" DEEP	FT	792	1102	1894
625	PULL BOX, 725.06, SIZE 18	EACH	4	5	9
625	GROUND ROD	EACH	2	2	4
625	POWER SERVICE, AS PER PLAN	EACH		1	1
625	UNDERGROUND WARNING/MARKING TAPE	FT	792	1102	1894

ELECTRICAL SERVICE EXTENSION  
 I.R. 90 - STA. 96+12 TO STA. 108+62

DESIGN AGENCY  
 ms consultants, inc.  
 DESIGNER  
 KWR  
 REVIEWER  
 GM 02-16-26  
 PROJECT ID  
 122879  
 SHEET TOTAL  
 P.151A 165

R1 2026-02-17, ADDED ELECTRICAL SERVICE EXTENSION



**ELECTRICAL SERVICE EXTENSION**  
 I.R. 90 - STA. 108+62 TO STA. 2+50



DESIGNER	KWR
REVIEWER	GM
PROJECT ID	02-16-26
SHEET	122879
TOTAL	165
P.151B	