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 OR ADJACENT TO THE PROJECT CONSTRUCTION LIMITS, TOGETHER WITH THEIR RESPECTIVE OWNERS:

SOUTH CENTRAL POWER/USIC
720 MILL PARK DRIVE
LANCASTER, OHIO 43130
ZACHERY REED
740-689-6150
ATTN: RHONDA TOTH
GIS SPECIALIST
740-689-6115

AMERICAN ELECTRIC POWER
38831 STATE ROUTE 7
REEDSVILLE, OHIO 45772
CLARKE SAUNDERS
740-985-3054
ATTN: MR. BRENT GATES
614-883-6802

COLUMBIA GAS OF OHIO (GRIDHAWK)
843 PIATT STREET
CHILLICOTHE, OH 45601
BRICE GRAVES
740-672-6834
ATTN: JOSEPH DIBENEDETTO
740-656-7401

HORIZON CHILLICOTHE DBA
GLO FIBER
68 E. MAIN ST.
P.O. BOX 480
CHILLICOTHE, OHIO 45601
JON DRIETZLER
740-606-0937

CITY OF CHILLICOTHE
35 SOUTH PAINT STREET
CHILLICOTHE, OH 45601
ATTN: CHRIS RAINES
740-773-8981 EXT. 114

ROSS COUNTY WATER
663 FAIRGROUNDS RD.
CHILLICOTHE, OH 45601
BRAD LONG
740-774-4117

ODOT 9 TRAFFIC (DISTRICT 9)
ATTN: J.D. HARRIS
TRAFFIC SIGNAL TECHNICIAN

ODOT CENTRAL ITS
ATTN: PAUL BECK
614-387-0695

ITEM SPECIAL - BOLLARD

THIS ITEM SHALL CONSIST OF CONSTRUCTING STEEL BOLLARDS AS PER STANDARD CONSTRUCTION DRAWING RM-5.1. THE BOLLARDS SHALL BE PERMANENT AND NON-HINGED OR NON-REMOVABLE

SEE SHEET P.20 FOR PLACEMENT DETAILS

PAYMENT FOR THIS WORK, INCLUDING THE CONCRETE FOUNDATION, SHALL INCLUDE ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO PERFORM THE WORK.

SURVEYING PARAMETERS - OHIO COUNTY COORDINATE SYSTEM (OCCS)

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET P.2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

PROJECT CONTROL	
POSITIONING METHOD:	STATIC GPS (OPUS)
MONUMENT TYPE:	ODOT TYPE B
VERTICAL POSITIONING	
ORTHOMETRIC HEIGHT DATUM:	NAVD88
GEOID:	GEOID18
HORIZONTAL POSITIONING	
REFERENCE FRAME:	NAD83 (2011)
ELLIPSOID:	GRS80
COORDINATE SYSTEM:	ODOT LDP - ROSS COUNTY
MAP PROJECTION:	LAMBERT CONFORMAL CONIC 1 PARALLEL
CENTRAL LATTITUDE:	N 39° 21' 00"
CENTRAL LONGITUDE:	W 83° 00' 00"
FALSE NORTHING:	100000 m
FALSE EASTING:	50000 m
PROJECTION SCALE FACTOR:	1.000033

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.

ITEM 878 - INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS

INSPECTION, COMPACTION TESTING, REPORTS AND ALL OTHER REQUIREMENTS STATED IN SS878 SHALL BE PERFORMED FOR ALL APPLICABLE UNBOUND MATERIALS. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENRAL SUMMARY FOR PERFORMANCE OF THIS WORK.

ITEM 878 - INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	LUMP

SURVEY MONUMENT VERIFICATION

BOTH PRE AND POST CONSTRUCTION SURVEY MONUMENTATION VERIFICATION SHALL BE PEROFRMED AS DETAILED IN THE SPECIFICATIONS. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR PERFORMANCE OF THIS WORK:

ITEM 623 - PRECONSTRUCTION SURVEY MONUMENT VERIFICATION	LUMP
ITEM 623 - POST CONSTRUCTION SURVEY MONUMENT VERIFICATION	LUMP

EXISTING PLANS

EXISTING PLANS MAY BE INSPECTED IN THE ODOT DISTRICT 9 OFFICE IN CHILLICOTHE.

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.

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.

SEEDING AND MULCHING

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

659, SOIL ANALYSIS TEST	2	EACH
659, TOPSOIL	968	CY
659, REPAIR SEEDING AND MULCHING	436	SY
659, INTER-SEEDING	436	SY
659, COMMERCIAL FERTILIZER	1.22	TON
659, LIME	1.80	ACRES
659, WATER	49	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.

CLEARING AND GRUBBING, AS PER PLAN

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING, AS PER PLAN. ALL TREES NEEDING REMOVED HAVE BEEN FELLED BY ODOT. REMOVE FELLED TREES INCLUDING ALL REMAINING LIMBS, TRUNKS, AND STUMPS. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO.TREES	NO.STUMPS	TOTAL
18"	-	16	16
30"	-	2	2
48"	-	-	-
60"	-	-	-

1

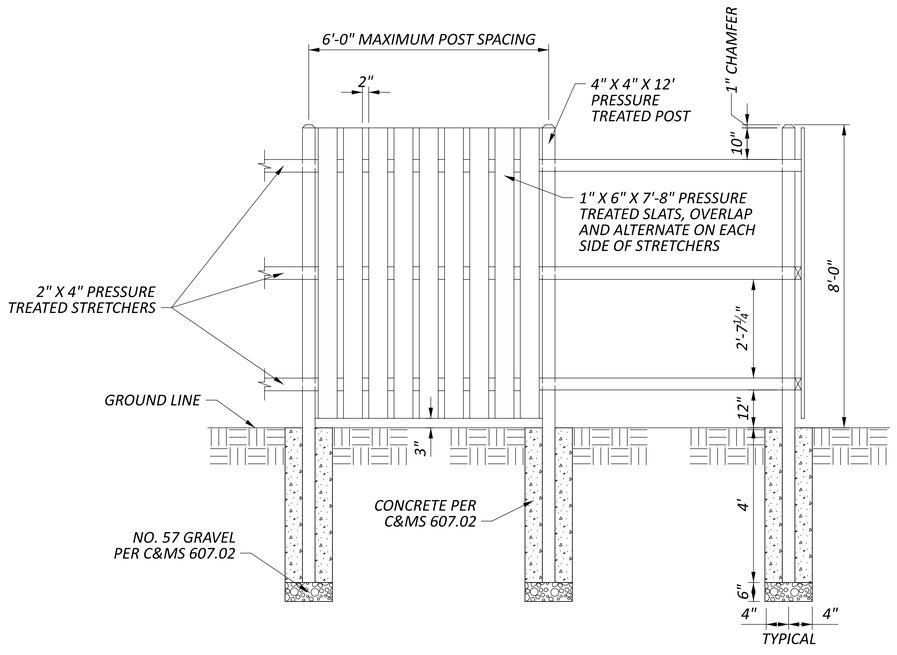
VEGETATED FILTER STRIP

THIS PLAN UTILIZES VEGETATED FILTER STRIP(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AND ITEM 670, SLOPE EROSION PROTECTION TO ALL DISTURBED AREAS DESIGNATED AS VEGETATED FILTER STRIPS, THE EDGE OF SHOULDER, AND THE FORESLOPE AS SPECIFIED IN THE PLANS.

ITEM 607 - FENCE, MISC.: WOODEN SLAT FENCE

SUPPLY PRESSURE TREATED LUMBER PER C&MS 711.26 AND 712.06 FOR ALL WOOD COMPONENTS.

SUPPLE SCREWS SUFFICIENT TO FIRMLY SECURE THE WOOD COMPONENTS TOGETHER. SCREWS SHALL HAVE A RUST RESISTANT PROTECTIVE COATING AND BE RATED FOR USE WITH PRESSURE TREATED LUMBER.



GENERAL NOTES

DESIGN AGENCY

DESIGNER AM

REVIEWER MAH 01/12/26

PROJECT ID 122886

SHEET P.04 TOTAL 46

ROS-US23/SR159 INTERCHANGE TP

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 2/17/2026 TIME: 3:56:39 PM USER: 9499
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SHEET NUM.										PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5	6	17	18	33	36	39				01/NFP						
															LIGHTING	
						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 1	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	
															TRAFFIC CONTROL	
					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	
															MAINTENANCE OF TRAFFIC	
	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	
															ITEMS OF WORK - OPTION A (FLEXIBLE)	
			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	00700	1,910	FT	TRANSVERSE/DIAGONAL LINE	
				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

ROS-US23/SR159 INTERCHANGE TP

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 2/17/2026 TIME: 3:58:12 PM USER: 9499
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DESIGN AGENCY

DESIGNER US

REVIEWER MAH 01/12/26

PROJECT ID 122886

SHEET P.15 TOTAL 46

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 LUIMINAIRE HAS A HOUSE SIDE SHIELD.

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

HOLOPHANE, HMLED4_P6_30K_AW_HMLED4D120

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 LUIMINAIRE 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

1

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.

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.

LIGHTING NOTES

DESIGN AGENCY

CHA

DESIGNER JAR

REVIEWER DS 01/12/26

PROJECT ID 122886

SHEET P.37 TOTAL 46

ROS-US23/SR159 INTERCHANGE TP

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 2/17/2026 TIME: 3:59:44 PM USER: 9499
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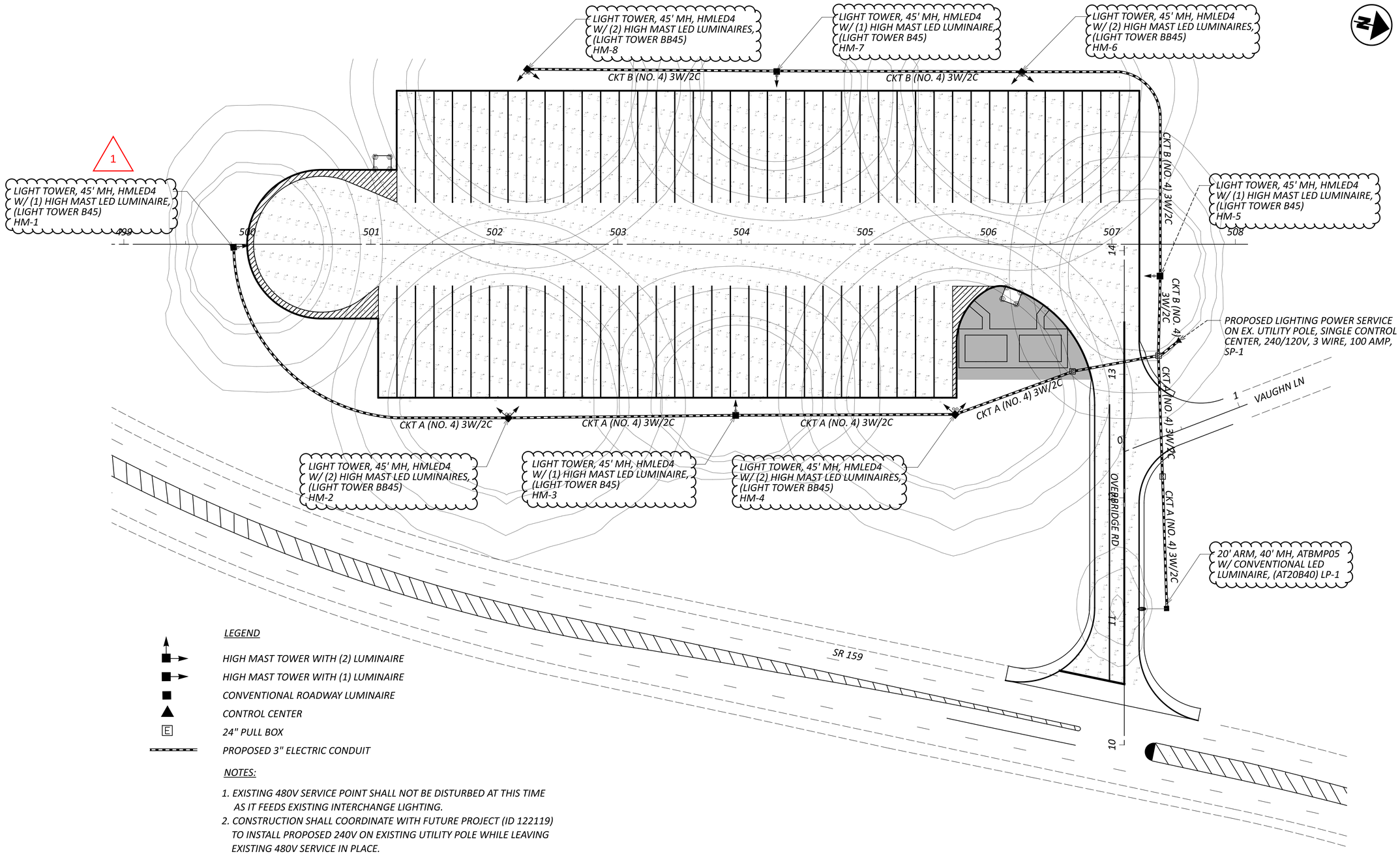

LEGEND

- *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:

1. *EXISTING 480V SERVICE POINT SHALL NOT BE DISTURBED AT THIS TIME AS IT FEEDS EXISTING INTERCHANGE LIGHTING.*
2. *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

HORIZONTAL SCALE IN FEET
0 20 40 80

LIGHTING PLAN

DESIGN AGENCY

DESIGNER JAR
REVIEWER DS 01/12/26
PROJECT ID 122886
SHEET P.38 TOTAL 46

ROS-US23/SR159 INTERCHANGE TP

MODEL: CLP_Site 7 Lot - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 2/17/2026 TIME: 3:59:53 PM USER: 9499
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Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Description	LLF	Luminaire Lumens
	4	HMLED4 P6 30K XXXXX AW HMLED4	Single	HMLED4 P6 30K XXXXX AW HMLED4D120	0.880	77652
	4	HMLED4 P6 30K XXXXX AW HMLED4	2 @ 90 DEGREES	HMLED4 P6 30K XXXXX AW HMLED4D120	0.880	77652
	1	ATBM P10 XXXXX R2 3K HSS	SINGLE	ATBM P10 XXXXX R2 3K HSS	0.840	10635

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Site 7 Lot	Illuminance	Fc	2.45	7.8	1.0	2.45	7.80
Overbridge Road	Illuminance	Fc	1.01	2.3	0.4	2.53	5.75

1

SHEET NO.	STATION FROM	STATION TO	SIDE	POLE/PULL BOX NO.		625 LIGHT TOWER FOUNDATION, MISC., 36" X 8' DEEP EACH	625 LIGHT TOWER FOUNDATION, MISC., 36" X 13' DEEP EACH	625 LIGHT POLE FOUNDATION 24" X 8' DEEP EACH	625 LIGHT POLE (INSTALLATION ONLY), AS PER PLAN, CONVENTIONAL, AT20B40 EACH	625 LIGHT POLE (INSTALLATION ONLY), AS PER PLAN, LIGHT TOWER B45 & BB45 EACH	625 LUMINAIRE, HIGH MAST, SOLID STATE (LED), TYPE V, 240V EACH	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), TYPE II, 240V EACH	625 PULL BOX, 725.08, 24" EACH	625 POWER SERVICE, AS PER PLAN EACH	625 NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE FT	625 NO. 10 POLE AND BRACKET CABLE FT	625 UNDERGROUND WARNING/MARKING TAPE FT	625 CONDUIT, 3", 725.04 FT	625 TRENCH FT	625 TRENCH IN PAVED AREA FT	625 GROUND ROD EACH	625 CONNECTION, FUSED PULL APART EACH	625 CONNECTION, UNFUSED PERMANENT EACH				
	CL OF PARKING LOT																									
P.38	499+86		RT	HM-1		1				1	1				55					2	1					
P.38	499+86	502+11	RT											916		302	302	297								
P.38	502+11		RT	HM-2		1				1	2				55					2	1					
P.38	502+11	503+95	RT											559		183	183	178								
P.38	502+27		LT	HM-8			1			1	2				55					2	1					
P.38	502+27	504+29	LT											616		202	202	197								
P.38	503+95		RT	HM-3		1				1	1				55					2	1					
P.38	503+95	505+73	RT											541		177	177	172								
P.38	504+29		LT	HM-7			1			1	1				55					2	1					
P.38	504+29	506+27	LT											604		198	198	193								
P.38	505+73		RT	HM-4		1				1	2				55					2	1					
P.38	505+73	506+68	RT											295		95	95	90								
P.38	506+27		LT	HM-6			1			1	2				55					2	1					
P.38	506+68		RT	PB-1									1													
P.38	506+27	507+39	RT/LT											796		262	262	257								
P.38	506+68	507+38	RT											360		70	70		65							
P.38	507+38	507+54	RT											100		18	18	13								
P.38	507+54		RT	SP-1																						
	CL OF OVERBRIDGE RD																									
P.38	11+10		LT	LP-1				1	1			1			50					1	1					
P.38	12+17		LT	PB-2									1													
P.38	13+15		LT	PB-3									1									1				
P.38	13+80		LT	HM-5		1				1	1				55					2						
P.38	11+10	12+17	LT											328		106	106	101			1					
P.38	12+17	13+15	LT											304		98	98		93							
TOTALS CARRIED TO GENERAL SUMMARY						5	3	1	1	8	12	1	2	1	5419	490	1709	1709	1498	158	17	9	1				

ROS-US23/SR159 INTERCHANGE TP

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 2/17/2026 TIME: 4:00:06 PM USER: 9499
pw:\\arcadis-us-pw.bentley.com:arcadis-us-01\Documents\01 Active Projects\302524476\400_CAD\122886\400-Engineering\Lighting\Sheets\Photometric Notes

PHOTOMETRIC NOTES & LIGHTING SUBSUMMARY

DESIGN AGENCY

DESIGNER JAR

REVIEWER DS 01/12/26

PROJECT ID 122886

SHEET P.39 TOTAL 46