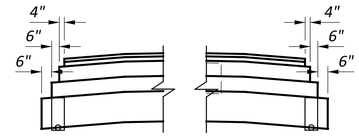
LEGEND

1. ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 9.5MM, TYPE A (446), AS PER PLAN (1.5")
2. ITEM 407 - TACK COAT (0.09 GAL/ SQ YD)
3. ITEM 442 - ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446), AS PER PLAN (2")
4. ITEM 301 - 4" ASPHALT CONCRETE BASE, PG64-22 (449)
5. ITEM 304 - 6" AGGREGATE BASE
6. ITEM 204 - SUBGRADE COMPACTION
7. ITEM 609 - TYPE 2 CURB AND GUTTER
8. ITEM 605 - 6" BASE PIPE UNDERDRAIN, WITH GEOTEXTILE FABRIC
9. ITEM 609 - CURB TYPE 6
10. ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS, AS PER PLAN
11. NOT USED
12. ITEM 609 -COMBINATION CURB AND GUTTER, TYPE 9
13. ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS, AS PER PLAN
14. ITEM 659 - SEEDING AND MULCHING
15. NOT USED
16. NOT USED
17. ITEM 206 - CEMENT STABILIZED SUBGRADE (14")
18. ITEM 690 SPECIAL - STONE MULCH (12" DEPTH)
A. EXISTING ASPHALT PAVEMENT



PAVEMENT STEP DETAIL

[A] VARIES 1.9' TO 4.0'
STA. 381+98.19 TO STA. 385+30.24

VARIES 4.0' TO 2.7'
STA. 389+72.29 TO STA. 392+93.19

[B] VARIES 11.1' TO 17.0'
STA. 381+98.19 TO STA. 385+30.24

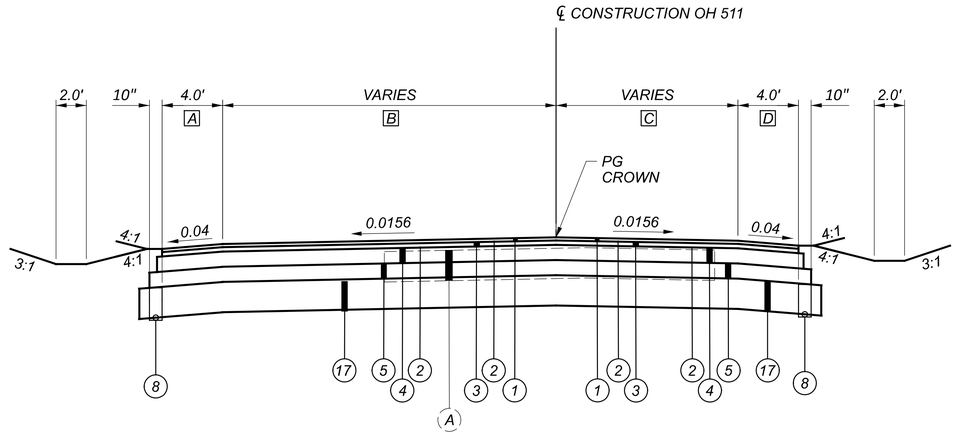
VARIES 17.0' TO 12.1'
STA. 389+72.29 TO STA. 392+93.19

[C] VARIES 11.1' TO 17.0'
STA. 381+98.19 TO STA. 385+30.24

VARIES 17.0' TO 9.82'
STA. 389+72.29 TO STA. 392+93.19

[D] VARIES 1.5' TO 4.0'
STA. 381+98.19 TO STA. 385+30.24

VARIES 4.0' TO 2.7'
STA. 389+72.29 TO STA. 392+93.19



OH 511 (B-B)
STA. 381+98.19 TO STA. 383+50.00
STA. 389+60.23 TO STA. 392+93.19

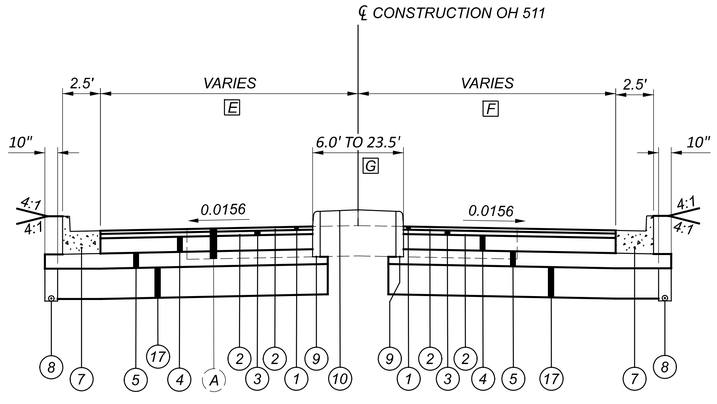
[E] VARIES 17.0' TO 43.0'
STA. 385+30.24 TO STA. 386+81.27

VARIES 30.4' TO 17.0'
STA. 388+09.26 TO STA. 389+60.23

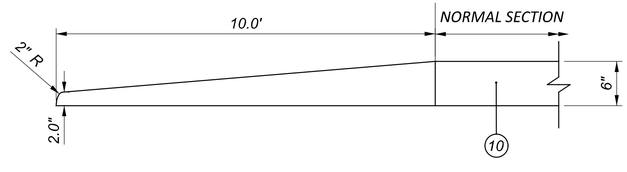
[F] VARIES 17.0' TO 27.9'
STA. 385+30.24 TO STA. 386+81.27

VARIES 43.0' TO 17.0'
STA. 388+09.26 TO STA. 389+60.23

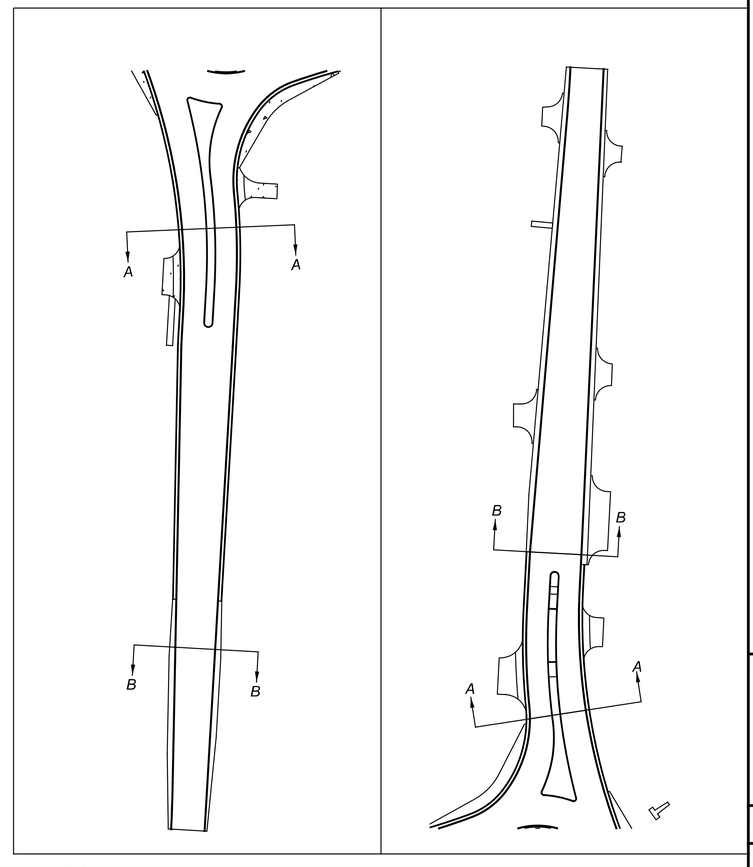
[G] 0'
STA. 383+50.00 TO STA. 385+30.23



OH 511 (A-A)
STA. 383+50.00 TO STA. 386+81.27
STA. 388+09.26 TO STA. 389+60.23



MEDIAN NOSE APPROACH DETAIL



SECTION LOCATION MAP

NO SCALE

TYPICAL SECTIONS

DESIGN AGENCY

DESIGNER ARW

REVIEWER JRE 09/29/25

PROJECT ID 116214

SHEET P.5 TOTAL P.73

LOR-18-1.60

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INDIANA BAT

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY ENDANGERED NORTHERN LONG-EARED BAT, INDIANA BAT, TRICOLORED BAT AND THE STATE ENDANGERED LITTLE BROWN. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT AND ORC 1531.25. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

ROUNDING

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

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.

ITEM 611 - RESIDENTIAL AND COMMERCIAL DRAINAGE CONNECTIONS

EXISTING ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING A CONDUIT THROUGH THE CURB OR INTO A DRAINAGE STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEW CONDUIT REQUIRED TO REPLACE OR EXTEND THE EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35.

PAYMENT FOR ALL LABOR AND MATERIALS WILL BE PERFORMED BY CHANGE ORDER.

ITEM 202, REMOVAL MISC.: RELOCATE CANNON

THIS WORK SHALL CONSIST OF THE TEMPORARY MOVING OF THE EXISTING HISTORIC CANNON AND RELOCATING TO A FINAL LOCATION AS ILLUSTRATED WITHIN THESE PLANS. THIS ITEM WILL INLCUDE ALL LABOR, MATERIALS, EQUIPMENT, ETC. REQUIRED TO RELOCATE THE ITEM. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL PAID TO THE DEPARTMENT AS DETERMINED BY THE ENGINEER.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 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: PER 502.2.D OF SURVEY MANUAL, STATIC GNSS SURVEY.

MONUMENT TYPE: PROJECT CONTROL MONUMENT TYPE A(2) AND TYPE B(4)

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEIOD 18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83(2011)
ELLIPSOID: GRS80
COORDINATE SYSTEM: OHIO STATE PLANE, NORTH ZONE (3401)
ORIGIN OF SCALE(X,Y): EASTING(X) 0, NORTHING(Y) 0
COMBINED SCALE FACTOR: 1.000097049

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.

ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS ITEM 623 WILL GOVERN CONSTRUCTION SURVEYING ACTIVITY.

THE FOLLOWING MONUMENT VERIFICATION REPORT(S) WILL BE REQUIRED:
623.04a - PRECONSTRUCTION MONUMENT VERIFICATION AND REPORT - [LUMP SUM CARRIED TO GEN SUM]

623.04b - POST CONSTRUCTION MONUMENT VERIFICATION AND REPORT - [LUMP SUM CARRIED TO GEN SUM]

ITEM 201 - CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES TO BE REMOVED UNDER A SEPARATE TREE PRUNING CONTRACT BY APRIL 1, 2026.

SIZES	NO. TREES	NO. STUMPS	TOTAL
4"-12"	8	-	8
14"	2	-	2
15"	1	-	1
18"	2	-	2
20"	1	-	1
24"	4	-	4
28"	1	-	1
36"	1	-	1

A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201 - CLEARING AND GRUBBING FOR AREAS NOT INCLUDED IN THE ABOVE LIST AND FOR STUMPS TO BE REMOVED FROM TREES CLEARED UNDER THE SEPARATE PRUNING CONTRACT. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 201 - CLEARING AND GRUBBING

SEEDING AND MULCHING

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

659, TOPSOIL	350 CU. YD.
659, SEEDING AND MULCHING	3149 SQ. YD.
659, REPAIR SEEDING AND MULCHING	158 SQ. YD.
659, INTER-SEEDING	158 SQ. YD.
659, COMMERCIAL FERTILIZER	0.44 TON
659, LIME	0.66 ACRES
659, WATER	18 M. GAL.

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.

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO. P.2.

REVIEW OF DRAINAGE FACILITIES

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

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

IN ADDITION TO DOCUMENTING THE EXISTING CONDITION, THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING LOCATIONS, SIZES, AND ELEVATIONS OF THE EXISTING STORM SEWER PRIOR TO ORDERING ANY STORM CONDUIT OR STRUCTURES.

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

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

VEGETATED BIOFILTER

THIS PLAN UTILIZES VEGETATED BIOFILTER(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 AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR EACH VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL, AS SHOWN IN THE PLAN CROSS SECTIONS. PROVIDE ITEM 670 AS SPECIFIED IN THE PLANS.

ITEM 202, REMOVAL MISC.: STONE PATH

THIS WORK SHALL CONSIST OF THE REMOVAL AND DISPOSAL OF THE NOTED ITEM. THIS ITEM WILL INLCUDE ALL LABOR, MATERIALS, EQUIPMENT, ETC. REQUIRED TO DISPOSE OF THE ITEM.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

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

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

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

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

ITEM SPECIAL - MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE) (DOUBLE).

ITEM 452, 6"/8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS, AS PER PLAN

THE ITEM SHALL MEET THE ODOT CMS WITH THE FOLLOWING EXCEPTION. THE BRICK RED COLOR SHALL BE MIXED IN. THE SURFACE SHALL BE BROOM FINISHED.

ITEM 202, REMOVAL MISC.: ROCK/BRICK PILLAR/CONCRETE SLAB/FLAG POLE/POST/PRIVATE SIGN

THIS WORK SHALL CONSIST OF THE REMOVAL AND DISPOSAL OF THE NOTED ITEM. THIS ITEM WILL INLCUDE ALL LABOR, MATERIALS, EQUIPMENT, ETC. REQUIRED TO DISPOSE OF THE ITEM.

GENERAL NOTES

DESIGN AGENCY

DESIGNER ARW
REVIEWER JRE 09/29/25
PROJECT ID 116214
SHEET P.7 TOTAL P.73

LOR-18-1.60

ENDANGERED BAT HABITAT REMOVAL

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY ENDANGERED NORTHERN LONG-EARED BAT, INDIANA BAT, TRICOLORED BAT AND THE STATE ENDANGERED LITTLE BROWN. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT AND ORC 1531.25. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

UNDERGROUND STORAGE TANK AND PETROLEUM CONTAMINATED SOILS

ENVIRONMENTAL STUDIES INDICATED THAT AN UNDERGROUND STORAGE TANK (UST) WILL BE AND PETROLEUM CONTAMINATED SOIL (PCS) MAY BE ENCOUNTERED DURING EXCAVATIONS WITHIN THE PROJECT LIMITS. THESE LIMITS ARE ESTIMATED TO BE STATE ROUTE 18, FROM APPROXIMATELY STATION 80+20 TO APPROXIMATELY STATION 82+00, LEFT; IN THE AREA OF 51110 ST RT 18 WELLINGTON, OH 44090. THE CONTRACTOR MUST DETERMINE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT FOR THOSE WHO CONDUCT WORK WITHIN THE LIMITS OF THE PCS.
ALL EXCAVATED PCS THAT CANNOT BE REUSED AS PROJECT FILL PER CMS 203.03(J)., SHALL BE MANAGED AND DISPOSED OF AT A LICENSED LANDFILL. THE ENGINEER MAY PERMIT THE CONTRACTOR TO DIRECT LOAD THE EXCAVATED PCS INTO TRUCKS FOR TRANSPORT AND DISPOSAL. AS AN ALTERNATE, THE ENGINEER MAY PERMIT THE CONTRACTOR TO TEMPORARILY STOCKPILE THE EXCAVATED PCS ON AN IMPERMEABLE MEMBRANE, IN AN AREA PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE STOCKPILE SHOULD BE SURROUNDED BY STRAW BALES TO REDUCE RUNOFF. THE CONTRACTOR WILL PROVIDE COMPLETED LOG FORMS AND MANIFESTS FOR TRANSPORT AND DISPOSAL TO THE ENGINEER FOR SIGNATURE. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL TESTING THAT THE LANDFILL MAY REQUIRE FOR DISPOSAL.
ONE (1) UNDERGROUND STORAGE TANK (UST) WAS IDENTIFIED DURING PROJECT DEVELOPMENT SHALL FOLLOW CMS 202.08 FOR PROPER PERMITTING, REMOVAL, AND DISPOSAL OF THE TANK. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING, SOIL AND GROUNDWATER DISPOSAL, TANK PREPARATION, REMOVAL AND DISPOSAL, INSPECTIONS, SAMPLING, AND REPORTING. ALL TANK REMOVAL ACTIVITIES MUST BE CONDUCTED BY A CERTIFIED TANK INSTALLER.
IF EXCAVATIONS WITHIN THE PCS REQUIRE DEWATERING FOR CONSTRUCTION PURPOSES, THE CONTRACTOR SHALL DEWATER, CONTAINERIZE, AND DISPOSE OF WATERS BY METHOD APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS NEEDED TO STORE, TRANSPORT, AND DISPOSE OF WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL TESTING REQUIRED FOR DISPOSAL. ALL EXCAVATED AREAS SHALL BE BACKFILLED WITH SUITABLE MATERIAL IN ACCORDANCE WITH PROJECT PLANS, APPLICABLE ODOT SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ALL THE LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PROPERLY MANAGE, STORE (IF NECESSARY), TEST FOR DISPOSAL, TRANSPORT AND DISPOSE OF REGULATED MATERIALS, INCLUDING ANY REQUIRED PERMITS OR FEES WITHIN THE IDENTIFIED LIMITS. PAYMENT FOR THIS WORK SHALL BE MADE AT THE CONTRACT PRICE BID. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

690E65000 - WORK INVOLVING NON-REGULATED MATERIAL	*550 TON*
690E65016 - WORK INVOLVING PCS	*550 TON*
690E67000 - REGULATED UNDERGROUND STORAGE TANK REMOVED	*1 EACH*
690E65022 - NON-REGULATED WATER	*500 GALLON*
690E65024 - REGULATED WATER	*500 GALLON*

HAZARDOUS MATERIALS

ACCORDING TO THE PLANS, A 10-INCH ASBESTOS CONCRETE WATER MAIN IS LOCATED WITHIN THE PROJECT AREA. SHOULD THE CONTRACTOR DISTURB THE WATER MAIN DURING CONSTRUCTION, THEY ARE REQUIRED TO ADHERE TO CMS 202.04 REGARDING THE REMOVAL OF PIPES CONTAINING ASBESTOS MATERIALS.

611 TYPE A OR B CONDUIT, AS PER PLAN

USE 703.11 STRUCTURAL BACKFILL TYPE 1 OR 613 LOW STRENGTH MORTAR, TYPE 2 AS STRUCTURAL BACKFILL FOR ALL TYPE A AND B FLEXIBLE CONDUITS 12-INCH DIAMETER AND LARGER. DETAIL THE SELECTED CONDUIT MATERIAL AND STRUCTURAL BACKFILL IN THE 611 INSTALLATION PLAN PER 611.04 B. NOTIFY THE ENGINEER IMMEDIATELY WHEN GROUNDWATER IS ENCOUNTERED DURING EXCAVATION. USE 703.11 STRUCTURAL BACKFILL IN AREAS WHERE GROUNDWATER IS PRESENT. INSTALL 703.11 STRUCTURAL BACKFILL TYPE 3 AND GEOTEXTILE FABRIC ACCORDING TO 611.06. VERIFY THE CONDUIT MATERIAL AND REVISED BACKFILL MEET THE STRUCTURAL DESIGN REQUIREMENTS WITH THE CONDUIT MANUFACTURER PRIOR TO INSTALLATION.

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (446), AS PER PLAN

ALL OPEN TRANSVERSE JOINTS SHALL BE TAPERED TO MEET EXISTING PAVEMENT BEFORE INTRODUCING TRAFFIC. A "BUMP" SIGN (W8-1-36) SHALL BE ERECTED ON EACH SIDE OF TRANSVERSE JOINTS LEFT OPEN OVER NIGHT, INCLUDING A SPEED ADVISORY SIGN. THESE SIGNS SHALL BE REMOVED IMMEDIATELY AFTER JOINT HAS BEEN CLOSED. PLACEMENT OF SIGNS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

CARE SHALL BE TAKEN TO MATCH EXISTING PAVEMENT ELEVATIONS AT EXISTING PAVED BERMS, DRIVES, INTERSECTIONS, ETC.

REQUIREMENTS OF 442 APPLY EXCEPT AS FOLLOWS:
MIX DESIGN: FOR Ndes USE 50 GYRATIONS, FOR Nmax USE 75 GYRATIONS. CHOOSE OPTIMUM BINDER CONTENT AT DESIGN AIR VOIDS OF 3.5%. MINIMUM TOTAL PG BINDER CONTENT IS 6.3 PERCENT.
MINIMUM VIRGIN PG BINDER CONTENT IS 5.2 PERCENT.
USE A PG 64-22 BINDER. WHEN AN AGGREGATE SOURCE IS SPECIALLY DESIGNATED WITH AN SR ON THE AGGREGATE GRAVITY LIST DO NOT USE THE AGGREGATE EXCEPT AS ALLOWED FOR MEDIUM TRAFFIC IN THE GUIDELINES FOR MAINTAINING ADEQUATE PAVEMENT FRICTION IN SURFACE PAVEMENT.

ITEM 442 - ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446), AS PER PLAN

ALL OPEN TRANSVERSE JOINTS SHALL BE TAPERED TO MEET EXISTING PAVEMENT BEFORE INTRODUCING TRAFFIC. A "BUMP" SIGN (W8-1-36) SHALL BE ERECTED ON EACH SIDE OF TRANSVERSE JOINTS LEFT OPEN OVER NIGHT, INCLUDING A SPEED ADVISORY SIGN. THESE SIGNS SHALL BE REMOVED IMMEDIATELY AFTER JOINT HAS BEEN CLOSED. PLACEMENT OF SIGNS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

REQUIREMENTS OF 442 APPLY EXCEPT AS FOLLOWS:
MIX DESIGN: FOR Ndes USE 50 GYRATIONS, FOR Nmax USE 75 GYRATIONS. CHOOSE OPTIMUM BINDER CONTENT AT DESIGN AIR VOIDS OF 3.5%. MINIMUM TOTAL PG BINDER CONTENT IS 5.6 PERCENT.
MINIMUM VIRGIN PG BINDER CONTENT IS 3.8 PERCENT.
PER SPECIFICATIONS, USE A PG 64-22 BINDER WHEN 25% AND LESS RAP IS USED. USE A PG 64-28 BINDER WHEN MORE THAN 25% RAP IS USED. MAX RAP PERCENTAGE IS 30%.

APPLY 703.05 FOR COARSE AND FINE AGGREGATE EXCEPT GRADATION FOR FINE AGGREGATE DOES NOT APPLY.

GENERAL NOTES

DESIGN AGENCY

DESIGNER ARW
REVIEWER JRE 01/06/26
PROJECT ID 116214
SHEET P.7A TOTAL P.73

LOR-18-1.60

SHEET NUMBER													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE
RW.3	RW.4	P.7	P.7A	P.14	P.15	P.16	P.17	P.30	P.38	P.41	P.42	Office Calc	01/SAF		EXT	TOTAL			SHEET NO.
																		ROADWAY	
		LS											LS	201	11000	LS		CLEARING AND GRUBBING	
				7,096									7,096	202	23000	7,096	SY	PAVEMENT REMOVED	
				616									616	202	30000	616	SF	WALK REMOVED	
				258									258	202	35100	258	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	
				8									8	202	58100	8	EACH	CATCH BASIN REMOVED	
				40									40	202	75000	40	FT	FENCE REMOVED	
				1									1	202	75250	1	EACH	GATE REMOVED	
				2									2	202	98100	2	EACH	REMOVAL MISC.: ROCK	P.7
				1									1	202	98100	1	EACH	REMOVAL MISC.:BRICK PILLAR	P.7
				2									2	202	98100	2	EACH	REMOVAL MISC.:CONCRETE SLAB	P.7
				2									2	202	98100	2	EACH	REMOVAL MISC.:FLAG POLE	P.7
				4									4	202	98100	4	EACH	REMOVAL MISC.:POST	P.7
				1									1	202	98100	1	EACH	REMOVAL MISC.:PRIVATE SIGN	P.7
				1									1	202	98100	1	EACH	REMOVAL MISC.:RELOCATE CANNON	P.7
				146									146	202	98400	146	SF	REMOVAL MISC.:STONE PATH	P.7
								1,512	1,310	251			3,073	203	10000	3,073	CY	EXCAVATION	
								248	365	2,859			3,472	203	20000	3,472	CY	EMBANKMENT	
					437							8,416	8,853	204	10000	8,853	SY	SUBGRADE COMPACTION	
												5	5	204	45000	5	HOUR	PROOF ROLLING	
												277	277	206	10500	277	TON	CEMENT	
												9,176	9,176	206	11000	9,176	SY	CURING COAT	
												9,176	9,176	206	15020	9,176	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	
					572								572	608	10000	572	SF	4" CONCRETE WALK	
4													4	623	38500	4	EACH	MONUMENT ASSEMBLY, TYPE C	RW.3
1													1	623	40500	1	EACH	REFERENCE MONUMENT, TYPE A	RW.3
7	25												32	623	40520	32	EACH	RIGHT-OF-WAY MONUMENT, TYPE B	
		LS											LS	623	50000	LS		PRECONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
		LS											LS	623	51000	LS		POST CONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
					10								10	SPECIAL	69050350	10	EACH	MAILBOX REMOVED AND RESET	P.7
											269		269	SPECIAL	69098300	269	SY	STONE MULCH	P.42
																		EROSION CONTROL	
		350				79							429	659	00300	429	CY	TOPSOIL	
		3,149											3,149	659	10000	3,149	SY	SEEDING AND MULCHING	
		158											158	659	14000	158	SY	REPAIR SEEDING AND MULCHING	
		158											158	659	15000	158	SY	INTER-SEEDING	
		0.44											0.44	659	20000	0.44	TON	COMMERCIAL FERTILIZER	
		0.66											0.66	659	31000	0.66	ACRE	LIME	
		18											18	659	35000	18	MGAL	WATER	
						242							242	670	00700	242	SY	DITCH EROSION PROTECTION	
							LS						LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
							LS						LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
							LS						LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
							50,000						50,000	832	30000	50,000	EACH	EROSION CONTROL	
																		ENVIRONMENTAL / REMEDIATION	
			1										1	202	67000	1	EACH	REGULATED UNDERGROUND STORAGE TANK REMOVED	
			550										550	SPECIAL	69065000	550	TON	WORK INVOLVING NON-REGULATED MATERIALS	P.7A
			550										550	SPECIAL	69065016	550	TON	WORK INVOLVING PETROLEUM CONTAMINATED SOIL	P.7A
			500										500	SPECIAL	69065022	500	GAL	WORK INVOLVING NON-REGULATED WATER	P.7A
			500										500	SPECIAL	69065024	500	GAL	WORK INVOLVING REGULATED WATER	P.7A
																		DRAINAGE	
						0.84							0.84	602	20000	0.84	CY	CONCRETE MASONRY	
						2,867							2,867	605	14000	2,867	FT	6" BASE PIPE UNDERDRAINS	
						186							186	611	00510	186	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
						42							42	611	00900	42	FT	6" CONDUIT, TYPE B	
						19							19	611	01800	19	FT	8" CONDUIT, TYPE B	
						55							55	611	02000	55	FT	8" CONDUIT, TYPE C	
						588							588	611	04401	588	FT	12" CONDUIT, TYPE B, AS PER PLAN	P.7A
						43							43	611	04600	43	FT	12" CONDUIT, TYPE C	
						87							87	611	05901	87	FT	15" CONDUIT, TYPE B, AS PER PLAN	P.7A
						30							30	611	06100	30	FT	15" CONDUIT, TYPE C	
						2							2	611	98150	2	EACH	CATCH BASIN, NO. 3	
						10							10	611	98180	10	EACH	CATCH BASIN, NO. 3A	
						10							10	611	98470	10	EACH	CATCH BASIN, NO. 2-2B	
						8							8	611	99574	8	EACH	MANHOLE, NO. 3	

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER ARW

REVIEWER JRE 09/29/25

PROJECT ID 116214

SHEET P.12 TOTAL P.73

LOR-18-1.60

SHEET NUMBER												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
	P.8			P.15	P.60	P.61	P.62	P.70			Office Calc	01/SAF		EXT	TOTAL			
																	PAVEMENT	
											890	890	301	56000	890	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
											1,549	1,549	304	20000	1,549	CY	AGGREGATE BASE	
											1,349	1,349	407	10000	1,349	GAL	TACK COAT	
											15	15	441	70500	15	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	
											331	331	442	00201	331	CY	ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (446), AS PER PLAN	P.7A
											441	441	442	10081	441	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN	P.7A
											120	120	452	10050	120	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS	
				486								486	452	10051	486	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS, AS PER PLAN	P.7
											372	372	452	12050	372	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS	
				686								686	452	12051	686	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS, AS PER PLAN	P.7
				1,516								1,516	609	12000	1,516	FT	COMBINATION CURB AND GUTTER, TYPE 2	
				1,490								1,490	609	26000	1,490	FT	CURB, TYPE 6	
				693								693	609	31000	693	FT	COMBINATION CURB AND GUTTER, TYPE 9	
																	LIGHTING	
								120				120	611	00400	120	FT	4" CONDUIT, TYPE E	
								33				33	625	00450	33	EACH	CONNECTION, FUSED PULL APART	
								12				12	625	00480	12	EACH	CONNECTION, UNFUSED PERMANENT	
								8				8	625	10490	8	EACH	LIGHT POLE, CONVENTIONAL, AT10B35	
								3				3	625	10490	3	EACH	LIGHT POLE, CONVENTIONAL, AT15B35	
								11				11	625	14000	11	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP	
								3,870				3,870	625	23200	3,870	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
								1,130				1,130	625	23400	1,130	FT	NO. 10 AWG POLE AND BRACKET CABLE	
								1,290				1,290	625	25500	1,290	FT	CONDUIT, 3", 725.04	
								11				11	625	26252	11	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	
								1,290				1,290	625	29002	1,290	FT	TRENCH, 24" DEEP	
								4				4	625	30700	4	EACH	PULL BOX, 725.08, 18"	
								2				2	625	30706	2	EACH	PULL BOX, 725.08, 24"	
								11				11	625	32000	11	EACH	GROUND ROD	
								1				1	625	34000	1	EACH	POWER SERVICE, AS PER PLAN	
								1,290				1,290	625	36010	1,290	FT	UNDERGROUND WARNING/MARKING TAPE	
								1				1	633	67200	1	EACH	CONTROLLER WORK PAD	
																	TRAFFIC CONTROL	
						2	2					4	620	60000	4	EACH	DELINEATOR, POST SURFACE MOUNTED	
					152							152	621	00100	152	EACH	RPM	
						319	122					441	630	03100	441	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
						4						4	630	08600	4	EACH	SIGN POST REFLECTOR	
						212	83					295	630	80100	295	SF	SIGN, FLAT SHEET	
							60					60	630	84900	60	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
							2					2	630	85201	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DELIVERY, AS PER PLAN	P.59
							41					41	630	86002	41	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
					0.99							0.99	644	00104	0.99	MILE	EDGE LINE, 6"	
					0.69							0.69	644	00300	0.69	MILE	CENTER LINE	
					178							178	644	00700	178	FT	TRANSVERSE/DIAGONAL LINE	
					148							148	644	01520	148	FT	DOTTED LINE, 12"	
					72							72	644	20800	72	FT	YIELD LINE	
																	MAINTENANCE OF TRAFFIC	
	50											50	410	12000	50	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
												LS	614	12420	LS		DETOUR SIGNING	
	25											25	614	13000	25	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
	12											12	614	18600	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN	
	LS											LS	615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
	20											20	616	10000	20	MGAL	WATER	
																	INCIDENTALS	
												LS	614	11000	LS		MAINTAINING TRAFFIC	
												7	619	16010	7	MNTH	FIELD OFFICE, TYPE B	
												LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
												LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER ARW

REVIEWER JRE 09/29/25

PROJECT ID 116214

SHEET P.13 TOTAL P.73

LOR-18-1.60

REF NO.	SHEET NO.			STATION TO STATION					202 PAVEMENT REMOVED	202 WALK REMOVED	202 PIPE REMOVED, 24" DIAMETER AND UNDER		202 CATCH BASIN REMOVED	202 FENCE REMOVED	202 GATE REMOVED	202 REMOVAL MISC.: ROCK	202 REMOVAL MISC.:PRIVATE SIGN	202 REMOVAL MISC.:BRICK PILLAR	202 REMOVAL MISC.:POST	202 REMOVAL MISC.:FLAG POLE	202 REMOVAL MISC.:CONCRETE SLAB	202 REMOVAL MISC.:RELOCATE CANNON	202 REMOVAL MISC.:STONE PATH						
									SY	SF	FT		EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	SF						
R-1	P.18	-	P.20	79+21.37	LT/RT	TO	89+71.94	LT/RT	3827.29																				
R-2	P.18	-		79+62.03	LT	TO	79+75.03	LT			13																		
R-3	P.18	-		80+31.65	RT	TO															1								
R-4	P.18	-		80+80.45	LT	TO	80+92.67	LT						17															
R-5				NOT USED																									
R-6	P.18	-		81+15.67	LT	TO	81+30.82	LT						23															
R-7	P.18	-		81+17.40	LT	TO	81+30.39	LT			13		1																
R-8	P.18	-		81+22.39	LT	TO	81+26.36	LT												2									
R-9	P.19	-		82+03.39	RT	TO	82+24.71	RT							1														
R-10				NOT USED																									
R-11	P.19	-		82+11.59	LT	TO	82+25.54	LT			13																		
R-12	P.19	-		82+52.98	RT	TO	82+53.39	RT												2									
R-13	P.19	-		82+67.60	LT	TO	82+80.60	LT			13																		
R-14	P.19	-		83+69.22	LT	TO	83+82.22	LT			13												1						
R-15	P.19	-		386+76.79	LT	TO																		1					
R-16	P.19	-		387+91.20	LT	TO	388+04.20	LT			13		1																
R-17	P.19	-		388+18.62	LT	TO	388+31.61	LT			13		1																
R-18	P.19	-		388+22.92	RT	TO	388+94.71	RT		376																			
R-19	P.19	-		388+32.18	RT	TO											1												
R-20	P.21	-		385+17.19	LT	TO	385+29.00	LT			13																		
R-21	P.19	-		86+12.30	LT	TO	86+25.30	LT			13																		
R-22	P.20	-		87+05.27	LT	TO										1													
R-23	P.21	-	P.21	381+98.19	LT/RT	TO	392+93.11	LT/RT	3267.81																				
R-24	P.21	-		382+19.10	LT/RT	TO	382+19.10	LT/RT			56		1																
R-25	P.21	-		383+46.29	LT	TO	383+59.78	LT			13																		
R-26	P.21	-		384+34.68	LT	TO	384+47.67	LT			13		1																
R-27	P.21	-		385+17.34	LT	TO	385+48.19	LT		113																			
R-28	P.21	-		385+70.68	LT	TO	386+04.55	LT		127									1										
R-29	P.21	-		386+02.30	RT	TO	386+08.71	RT																				146	
R-30	P.21	-		385+43.12	LT	TO																1							
R-31	P.21	-		386+37.02	LT	TO	386+50.02	LT			20		1																
R-32	P.22	-		389+12.16	RT	TO										1													
R-33	P.22	-		389+55.31	LT	TO	389+68.31	LT			13																		
R-34	P.22	-		389+89.94	LT	TO	390+02.94	LT			13		1																
R-35				NOT USED																									
R-36	P.22	-		390+23.14	LT	TO	390+36.14	LT			13		1																
R-37	P.22	-		390+76.33	RT	TO																1							
TOTALS CARRIED TO GENERAL SUMMARY									7096	616	258		8	40	1	2	1	1	4	2	2	1	146						

ROADWAY SUBSUMMARY

DESIGN AGENCY

DESIGNER ARW

REVIEWER JRE 09/29/25

PROJECT ID 116214

SHEET P.14 TOTAL P.73

LOR-18-1.60

REF NO.			SHEET NO.	STATION TO STATION					452 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS, AS PER PLAN SY	452 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS, AS PER PLAN SY		608 4" CONCRETE WALK SF	609 COMBINATION CURB AND GUTTER, TYPE 2 FT	609 CURB, TYPE 6 FT	609 COMBINATION CURB AND GUTTER, TYPE 9 FT		204 SUBGRADE COMPACTION SY		SPECIAL MAILBOX REMOVED AND RESET EACH
						TO													
W-1	P.19	-	P.22	388+22.92	RT	TO	388+94.75	RT				405							
W-2	P.21	-		385+17.39	LT	TO	385+49.82	LT				128							
W-3	P.22			391+85.00	LT							39							
C-1	P.18			81+90.40	RT	TO	83+31.10	RT					142						
C-2	P.19			82+11.80	LT	TO	83+64.01	LT					153						
C-3	P.19			82+24.45	LT/RT	TO	83+75.40	LT/RT	117					328					
C-4	P.19			83+31.10	RT	TO	386+68.62	LT		62					101				
C-5	P.19	-	P.22	83+64.01	LT	TO	388+58.59	LT		66					106				
C-6	P.19	-		83+93.45	LT/RT	TO	84+85.45	LT/RT		437					289		437		
C-7	P.19	/	P.21	383+50.01	LT	TO	386+68.62	LT					321						
C-8	P.19			84+11.20	LT/RT	TO	84+67.70	LT/RT						178					
C-9	P.19	-	P.21	385+30.23	LT/RT	TO	386+81.18	LT/RT	117					328					
C-10	P.19	/	P.21	38+89.28	LT/RT	TO	389+60.23	LT/RT	117					328					
C-11	P.19	-	P.21	386+36.77	RT	TO	85+16.26	RT		62					101				
C-12	P.19	/	P.22	388+16.76	RT	TO	389+65.81	RT					152						
C-13	P.19			388+16.76	RT	TO	85+47.17	LT		59					96				
C-14	P.19			85+03.50	LT/RT	TO	86+54.45	LT/RT	135					328					
C-15	P.19	-	P.20	85+16.26	RT	TO	86+84.90	RT					172						
C-16	P.19	-	P.20	85+47.17	LT	TO	87+22.21	LT					175						
C-17	P.21			383+50.01	RT	TO	386+36.77	RT					287						
C-18	P.22			388+58.59	LT	TO	389+72.23	LT					114						
MB-1	P.17			79+24.37	LT	TO	79+28.94	LT											2
MB-2	P.17			80+27.16	LT														1
MB-3	P.20			384+20.02	RT														1
MB-4	P.20			385+39.96	RT														1
MB-5	P.20			386+00.21	RT														1
MB-6	P.21			391+92.68	LT														4
TOTALS CARRIED TO GENERAL SUMMARY									486	686		572	1516	1490	693		437		10

ROADWAY SUBSUMMARY

DESIGN AGENCY

DESIGNER ARW

REVIEWER JRE 09/29/25

PROJECT ID 116214

SHEET P.15 TOTAL P.73

LOR-18-1.60

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 3/7/2026 TIME: 12:49:11 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: jespelage@ljbinc.com WORKSPACE: OHDOTCEv02 WORKSET: 116214 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Lorain\116214\401-Engineering_LJB\Roadway\Sheets\116214_GS002.dgn

DRAINAGE SUBSUMMARY

REF NO.	SHEET NO.			STATION TO STATION					605 6" BASE PIPE UNDERDRAINS FT	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS FT	602 CONCRETE MASONRY CY	611 6" CONDUIT, TYPE B FT	611 8" CONDUIT, TYPE B FT	611 8" CONDUIT, TYPE C FT		611 12" CONDUIT, TYPE B, AS PER PLAN FT	611 12" CONDUIT, TYPE C FT		611 15" CONDUIT, TYPE B, AS PER PLAN FT	611 15" CONDUIT, TYPE C FT	611 CATCH BASIN, NO. 3 EACH	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN, NO. 2-2B EACH	611 MANHOLE, NO. 3 EACH		670 DITCH EROSION PROTECTION SY		659 TOPSOIL CY	
					TO																								
D-1	P.18			79+59.58	LT	TO	79+75.03	LT					7	7			9							2					
D-2	P.18			80+73.81	LT	TO	81+35.05	RT			0.42					64													
D-3	P.18			81+17.40	LT	TO	81+30.39	LT					12																
D-4	P.19			82+11.59	LT	TO	82+37.00	RT						12		42	9					2	1						
D-5	P.19			NOT USED																									
D-6	P.19			82+67.60	LT/RT	TO	82+80.60	LT/RT						12		46						2			1				
D-7	P.19			83+69.22	LT	TO	83+82.22	LT						12															
D-8	P.19			387+91.20	LT	TO	388+04.20	LT								12													
D-9	P.19			388+18.62	LT	TO	388+31.61	LT								30								1	1				
D-10				NOT USED																									
D-11	P.19			86+12.30	LT	TO	86+45.32	RT						12		55	6					2	1	1					
D-12	P.21			382+05.60	LT/RT	TO	382+19.10	LT/RT											50	18			2						
D-13	P.21			383+46.29	LT/RT	TO	383+59.78	LT/RT											31	12		2							
D-14	P.21			384+34.68	LT	TO	384+47.67	LT								6			6						1				
D-15	P.21			385+17.28	LT/RT	TO	385+28.94	LT/RT								50						2			1				
D-16				NOT USED																									
D-17	P.21			386+37.02	LT	TO	386+50.02	LT				6				12									1				
D-18	P.22			389+55.31	LT/RT	TO	389+72.00	LT/RT								57					2			1	1				
D-19	P.22			389+61.81	LT	TO	390+29.63	LT								68													
D-20				NOT USED																									
D-21	P.22			390+23.14	LT	TO	390+63.14	LT/RT								124								2	1				
D-22	P.22			390+50.60	LT	TO	390+73.17	LT			0.42					22													
D-23	P.22			391+78.50	LT	TO	391+97.50	LT									19												
E-1	P.19	-	P.20	86+85.26	RT	TO	89+71.94	RT																				126		46	
E-2	P.20			87+11.50	LT	TO	89+71.94	LT																				116		33	
UD-1	P.18	-	P.19	79+68.53	LT	TO	82+11.80	LT	234	10																					
UD-2	P.18	-	P.19	79+68.83	LT/RT	TO	82+34.44	RT	266			36																			
UD-3	P.19			82+20.75	LT	TO	82+71.22	LT	41	10																					
UD-4	P.19			82+38.75	RT	TO	82+77.66	RT	30	10																					
UD-5	P.19			82+75.69	LT	TO	83+62.53	LT	80	10																					
UD-6	P.19			82+82.20	RT	TO	83+31.04	RT	40	10																					
UD-7	P.19	/	P.21	383+54.73	LT	TO	386+68.30	LT	306	10																					
UD-8	P.19	/	P.22	388+17.09	RT	TO	389+58.77	RT	135	10																					
UD-9	P.19			85+16.58	RT	TO	86+43.34	RT	119	10																					
UD-10	P.19			85+47.24	LT	TO	86+17.04	LT	60	10																					
UD-11	P.19	-	P.20	86+21.54	LT	TO	89+71.94	LT	350	14																					
UD-12	P.19	-	P.20	86+49.50	RT	TO	89+71.94	RT	323	19																					
UD-13	P.21			382+11.88	RT	TO	383+50.01	RT	122	23																					
UD-14	P.21			382+12.60	LT	TO	383+50.02	LT	129	10																					
UD-15	P.21			383+54.78	RT	TO	386+36.47	RT	272	10																					
UD-16	P.22			388+58.58	LT	TO	389+58.77	LT	90	10																					
UD-17	P.22			389+72.23	LT	TO	392+41.28	LT	270	10																					
TOTALS CARRIED TO GENERAL SUMMARY									2867	186	0.84	42	19	55		588	43		87	30	2	10	10	8			242		79	

DESIGN AGENCY

DESIGNER ARW

REVIEWER JRE 09/29/25

PROJECT ID 116214

SHEET P.16 TOTAL P.73

LOR-18-1.60

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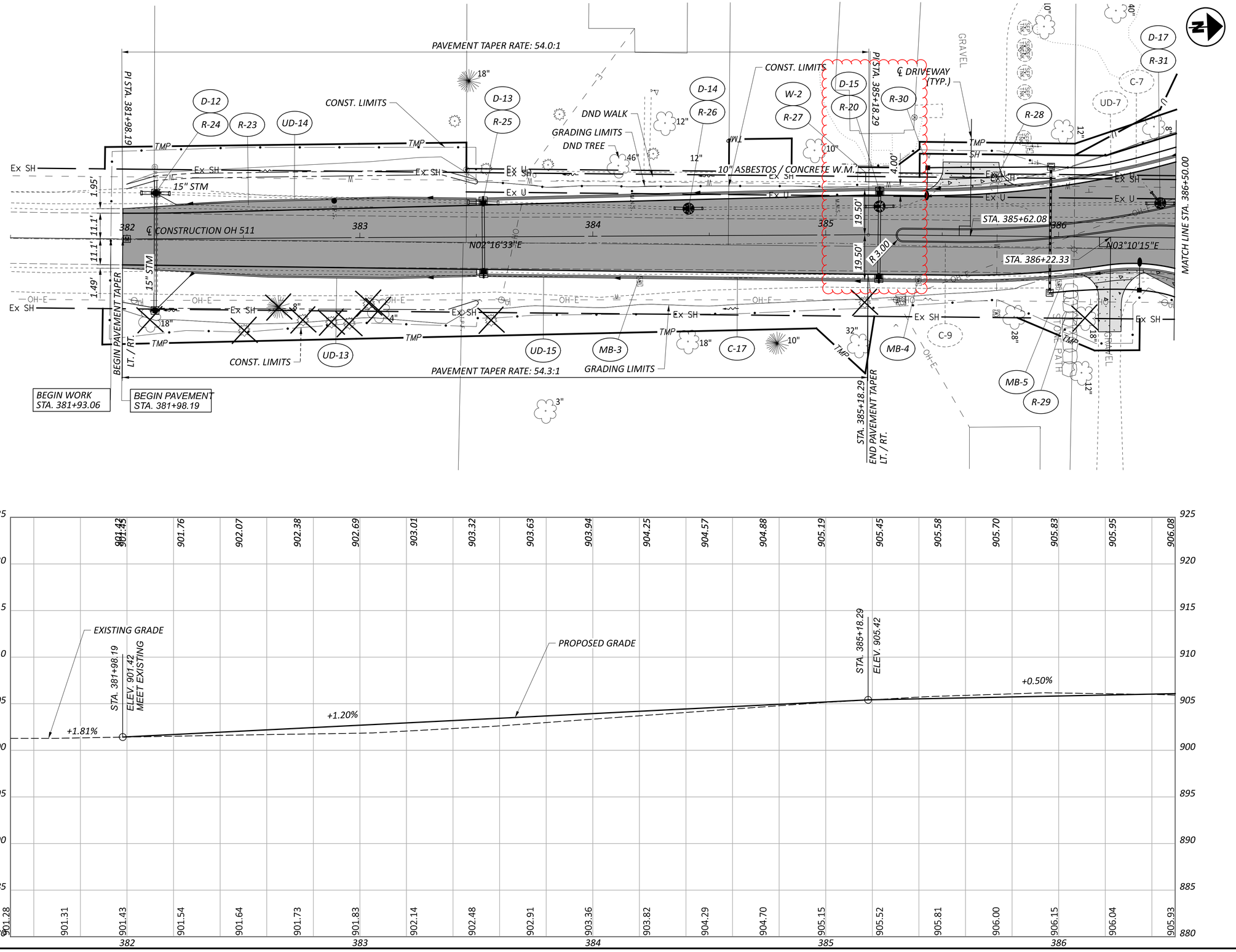

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - OH 511
STA. 380+00.00 TO STA. 386+00.00

DESIGN AGENCY

DESIGNER	JML
REVIEWER	JRE 09/29/25
PROJECT ID	116214
SHEET	P.21
TOTAL	P.73

LOR-18-1.60

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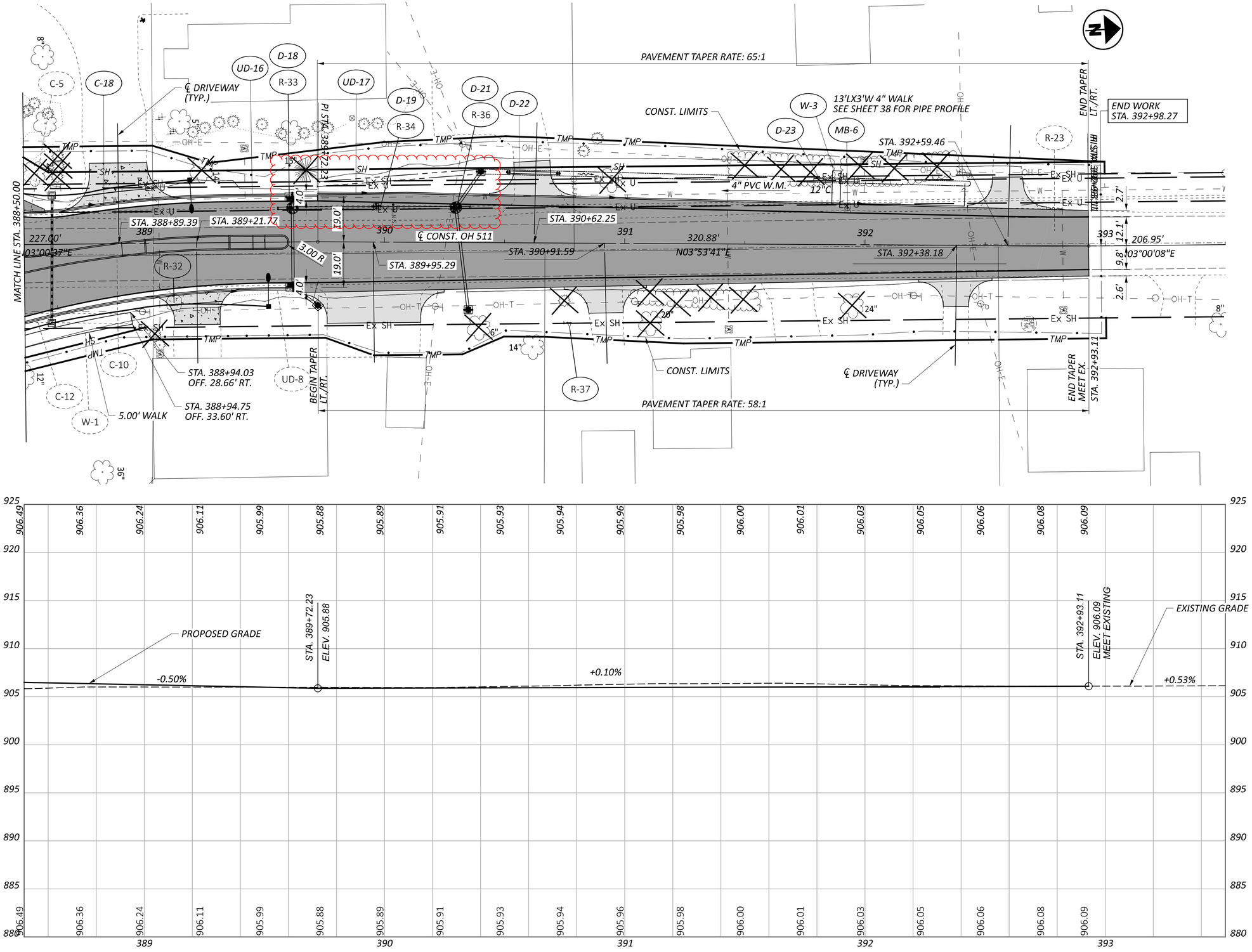


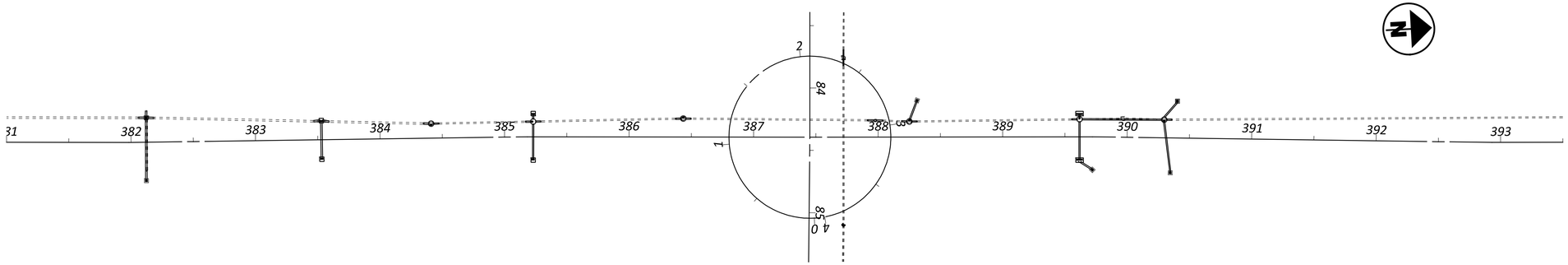
HORIZONTAL SCALE IN FEET
0 10 20 40

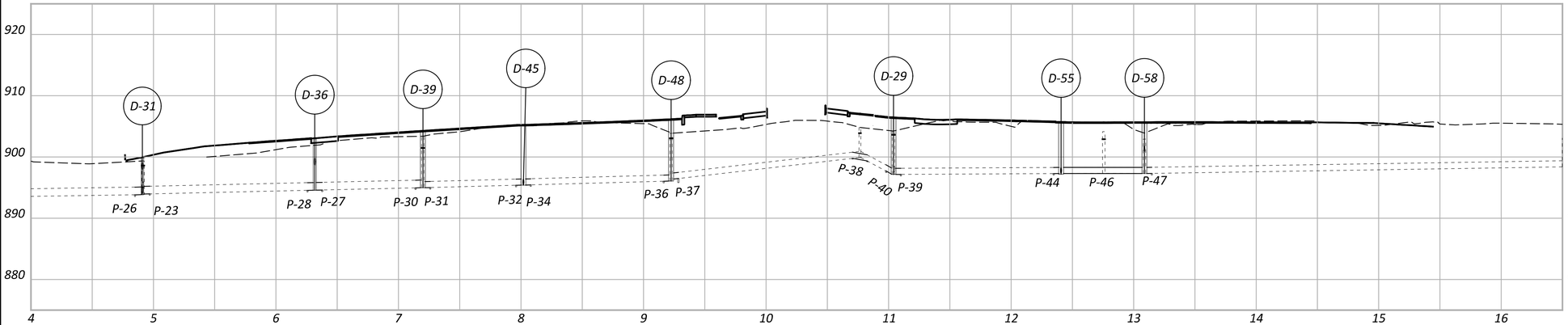
PLAN AND PROFILE - OH 511
STA. 388+50.00 TO STA. 393+50.00

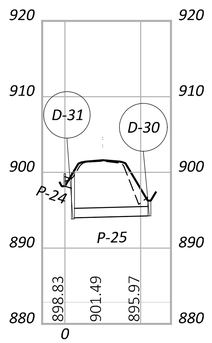
LOR-18-1.60

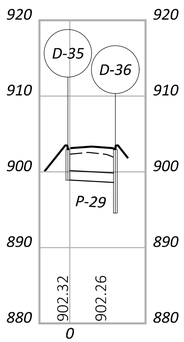
DESIGN AGENCY

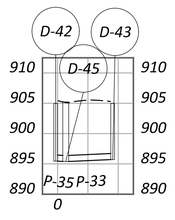
DESIGNER JML
REVIEWER JRE 09/29/25
PROJECT ID 116214
SHEET P.22 TOTAL P.73

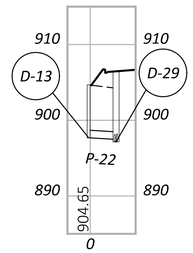


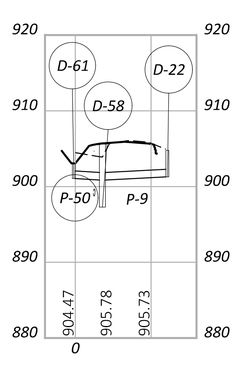


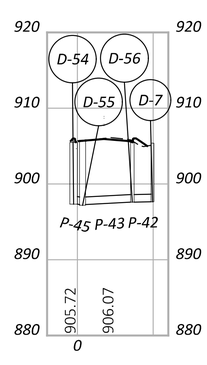












DRAINAGE PIPES DETAILS

REF NO.	CFN	LENGTH	SIZE	TYPE	SLOPE	START STRUCT. REF NO.	START INVERT ELEV.	STOP STRUCT. REF NO.	STOP INVERT ELEV.
P-9	NA	42.84 ft	12"	TYPE B	1.00 %	D-22	901.29 ft	D-58	900.86 ft
P-22		18.07 ft	12"	TYPE B	1.00 %	D-13	897.68 ft	D-29	897.50 ft
P-23	NA	6.00 ft	15"	TYPE C	0.33 %	D-33	893.97 ft	D-31	893.95 ft
P-24		5.34 ft	15"	TYPE C	5.15 %	D-32	898.18 ft	D-31	897.90 ft
P-25		50.43 ft	15"	TYPE B	0.52 %	D-30	894.26 ft	D-31	894.00 ft
P-26	NA	6.00 ft	15"	TYPE C	0.50 %	D-31	893.85 ft	D-34	893.82 ft
P-27	NA	6.10 ft	15"	TYPE C	0.33 %	D-37	894.61 ft	D-36	894.59 ft
P-28	NA	5.98 ft	15"	TYPE C	0.45 %	D-36	894.57 ft	D-38	894.55 ft
P-29		31.05 ft	15"	TYPE B	1.00 %	D-35	898.93 ft	D-36	898.62 ft
P-30		6.00 ft	15"	TYPE B	0.33 %	D-39	894.97 ft	D-40	894.95 ft
P-31		6.00 ft	12"	TYPE B	0.50 %	D-41	895.00 ft	D-39	894.97 ft
P-32		6.00 ft	12"	TYPE B	0.50 %	D-45	895.41 ft	D-44	895.38 ft
P-33	1995802	30.91 ft	12"	TYPE B	1.00 %	D-43	895.72 ft	D-45	895.41 ft
P-34		6.00 ft	12"	TYPE B	0.50 %	D-46	895.44 ft	D-45	895.41 ft
P-35		6.51 ft	12"	TYPE B	1.08 %	D-42	895.48 ft	D-45	895.41 ft
P-36		6.00 ft	12"	TYPE B	0.50 %	D-48	896.06 ft	D-47	896.03 ft
P-37		6.00 ft	12"	TYPE B	1.33 %	D-49	896.48 ft	D-48	896.40 ft
P-38		12.00 ft	12"	TYPE B	3.58 %	D-50	899.78 ft	D-51	899.35 ft
P-39		6.00 ft	12"	TYPE B	0.00 %	D-29	897.14 ft	D-53	897.14 ft
P-40		6.00 ft	12"	TYPE B	8.17 %	D-52	897.71 ft	D-29	897.22 ft
P-42		12.80 ft	12"	TYPE B	0.23 %	D-7	897.65 ft	D-56	897.62 ft
P-43	1995803	32.83 ft	12"	TYPE B	1.01 %	D-56	897.62 ft	D-55	897.29 ft
P-44		6.00 ft	12"	TYPE B	0.17 %	D-55	897.29 ft	D-57	897.28 ft
P-45		4.58 ft	12"	TYPE B	1.09 %	D-54	897.34 ft	D-55	897.29 ft
P-46		68.05 ft	12"	TYPE B	0.01 %	D-58	897.30 ft	D-55	897.29 ft
P-47		6.00 ft	12"	TYPE B	0.33 %	D-59	897.32 ft	D-58	897.30 ft
P-50	NA	18.28 ft	12"	TYPE C	1.09 %	D-61	901.06 ft	D-58	900.86 ft

DRAINAGE STRUCTURES DETAILS

REF NO.	BASELINE NAME	STATION	OFFSET	SIDE	TYPE	GRATE/RIM ELEV.	INVERT ELEV.	CONNECTED PIPES
D-7	CLP_CONST. OH511	389+72.00	26.45 ft	RT	CB-2-2B	905.39 ft	897.65 ft	(OUT) P-42 NE 897.65
D-13	CLP_CONST. OH511	388+31.34	29.43 ft	LT	CB-2-2B	904.67 ft	897.68 ft	(OUT) P-22 NW 897.68
D-22	CLP_CONST. OH511	390+35.00	27.98 ft	RT	CB-2-2B	904.79 ft	901.29 ft	(OUT) P-9 E 901.29
D-29	CLP_CONST. OH511	388+25.11	12.47 ft	LT	MH-3	906.46 ft	897.14 ft	(IN) P-40 S 897.22, (IN) P-22 NW 897.5, (OUT) P-39 S 897.14
D-30	CLP_CONST. OH511	382+11.88	30.81 ft	RT	CB-2-2B	896.26 ft	894.26 ft	(OUT) P-25 E 894.26
D-31	CLP_CONST. OH511	382+12.35	19.61 ft	LT	CB-2-2A	899.95 ft	893.85 ft	(IN) P-25 E 894, (IN) P-24 W 897.9, (IN) P-23 N 893.95, (OUT) P-26 N 893.85
D-35	CLP_CONST. OH511	383+53.03	15.96 ft	RT	CB-3A	902.93 ft	898.90 ft	(OUT) P-29 E 898.93
D-36	CLP_CONST. OH511	383+53.00	15.67 ft	LT	CB-3A	902.93 ft	894.57 ft	(IN) P-29 E 898.62, (IN) P-27 N 894.59, (OUT) P-28 N 894.57
D-39	CLP_CONST. OH511	384+41.17	11.64 ft	LT	MH-3	904.28 ft	894.97 ft	(IN) P-31 N 894.97, (OUT) P-30 N 894.97
D-42	CLP_CONST. OH511	385+23.00	19.00 ft	LT	CB-3A	904.97 ft	895.48 ft	(OUT) P-35 W 895.48
D-43	CLP_CONST. OH511	385+23.00	19.00 ft	RT	CB-3A	904.97 ft	895.72 ft	(OUT) P-33 E 895.72
D-45	CLP_CONST. OH511	385+23.00	12.20 ft	LT	MH-3	905.25 ft	895.41 ft	(IN) P-35 W 895.41, (IN) P-33 E 895.41, (IN) P-34 N 895.41, (OUT) P-32 N 895.41
D-48	CLP_CONST. OH511	386+43.52	14.80 ft	LT	MH-3	906.17 ft	896.06 ft	(IN) P-37 N 896.4, (OUT) P-36 N 896.06
D-54	CLP_CONST. OH511	389+61.81	19.00 ft	LT	CB-3	905.50 ft	897.34 ft	(OUT) P-45 W 897.34
D-55	CLP_CONST. OH511	389+61.81	14.13 ft	LT	MH-3	905.71 ft	897.19 ft	(IN) P-43 E 897.29, (IN) P-45 W 897.29, (IN) P-46 N 897.29, (OUT) P-44 N 897.29
D-56	CLP_CONST. OH511	389+61.81	19.00 ft	RT	CB-3	905.47 ft	897.62 ft	(IN) P-42 NE 897.62, (OUT) P-43 E 897.62
D-58	CLP_CONST. OH511	390+29.64	14.53 ft	LT	MH-3	905.69 ft	897.30 ft	(IN) P-47 N 897.3, (IN) P-9 E 900.86, (IN) P-50 NW 900.86, (OUT) P-46 N 897.3
D-61	CLP_CONST. OH511	390+40.00	29.59 ft	LT	CB-2-2B	903.06 ft	901.06 ft	(OUT) P-50 NW 901.06

HORIZONTAL SCALE IN FEET
0 50 100 200

DRAINAGE DETAILS
S.R. 511

DESIGN AGENCY

DESIGNER ARW
REVIEWER JRE 09/29/25
PROJECT ID 116214
SHEET P.58 TOTAL P.73

LOR-18-1.60

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