

UTILITIES

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

- CENTURYLINK
175 ASHLAND RD.
MANSFIELD, OH 44902
PH: (419) 755-7183
- CHARTER COMMUNICATIONS
3760 INTERCHANGE DR.
COLUMBUS, OH 43204
PH: (614) 255-6340
- OHIO GAS COMPANY
P.O. BOX 528
BRYAN, OH 43506
PH: (800) 331-7396
- PANHANDLE EASTERN PIPELINE
3990 CROOKED LAKE RD.
HOWELL, MI 48843
PH: (517) 546-4770
- TOLEDO EDISON
6099 ANGOLA RD.
HOLLAND, OHIO 43528
PH: (419) 249-5218
- CITY OF NAPOLEON
255 RIVERVIEW AVE
NAPOLEON, OH 43545
PH: (419) 592-4010
- CITY OF WAUSEON
230 CLINTON ST.
WAUSEON, OH 43567
PH: (419) 335-9871

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

SURVEYING PARAMETERS

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

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88 (ODOT VRS DERIVED)
GEOID: 2012A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE NORTH
COMBINED SCALE FACTOR: GRID=1.0000000

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY 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.

PROFILE AND ALIGNMENT

THE WORK PROPOSED BY THIS PROJECT IS FOR THE RESURFACING OF THE EXISTING PAVEMENT. THE ALIGNMENT OF THE EXISTING PAVEMENT WILL NOT BE CHANGED AND THE PROFILE OF THE PROPOSED SURFACE WILL BE SIMILAR TO THAT OF THE EXISTING PAVEMENT.

PLANED SURFACES

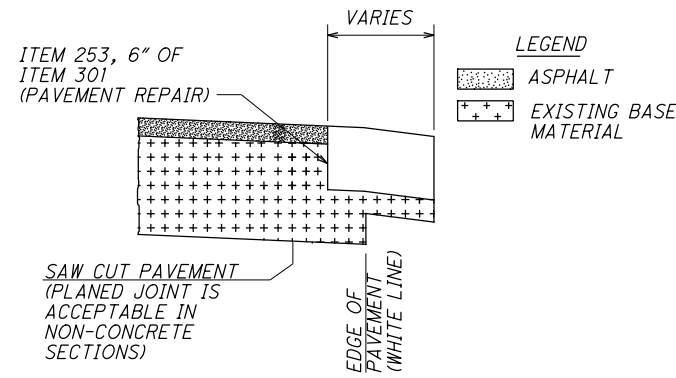
NO PLANED SURFACES SHALL BE OPEN TO THE PUBLIC FOR MORE THAN 7 DAYS. IF THE PLANED SURFACE IS OPEN FOR MORE THAN 7 DAYS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR THE PAVEMENT FAILURES THAT OCCURRED AFTER THE 7 DAY LIMIT.

PAVEMENT REPAIRS

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED FOR PAVEMENT REPAIR ON SR 108 AND AS DIRECTED BY THE ENGINEER AND ARE BASED ON THE PERCENTAGES SHOWN:

- FUL 108 STA. 1198+95 TO 156+07.58, 2500 CY
- FUL 108 STA. 156+07.68 TO 159+24.48 & STA. 159+24.48 TO 183+21.60 (RT LANE), 100 CY
- FUL 108 STA. 159+24.48 TO 183+21.60 (LT LANE) & STA. 183+21.60 TO 223+74, 100 CY

ITEM 253 - PAVEMENT REPAIR 6" 2700 CY



NOTE: THE ENGINEER SHALL FIELD VERIFY ALL LOCATIONS PRIOR TO THE BEGINNING OF WORK. ANY ADJUSTMENTS NECESSARY SHALL BE AS DIRECTED BY THE ENGINEER.

THE PAVEMENT REPAIRS SHALL BE DONE AFTER PAVEMENT PLANING.

ASPHALT CONCRETE - SAFETY EDGE

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED FOR THE CONSTRUCTION OF THE SAFETY EDGE. SEE SCD BP-3.2.

- FUL SR 108 (0.00-4.43) STA. 0+00 TO STA. 233+74 (MINUS LOCATIONS FOR GUARDRAIL)

ITEM 209 - PREPARING SUBGRADE FOR SHOULDER PAVING 6.06 MILE

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A, (446) 130 CY

ITEM 442 - ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A, (446) 64 CY

QUANTITIES TO BE USED FOR THE SAFETY EDGE HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

TRAFFIC CONTROL QUANTITIES

PAVEMENT MARKINGS

THE CONTRACTOR WILL BE PROVIDED THE "NO PASSING ZONE LOG" FOR THE CENTER LINE PAVEMENT MARKING UPON REQUEST.

ITEMS ADJUSTED TO GRADE

THE FOLLOWING ESTIMATE QUANTITIES HAVE BEEN CARRIED FORWARD TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

- ITEM 611 CATCH BASIN ADJUSTED TO GRADE 1 EA
- ITEM 611 MANHOLE ADJUSTED TO GRADE 5 EA
- ITEM 611 WATER VALVE ADJUSTED TO GRADE 3 EA
- ITEM 611 MONUMENT BOX ADJUSTED TO GRADE 1 EA

MISCELLANEOUS ITEMS FOR GUARDRAIL

THE FOLLOWING ITEMS ARE TO BE USED AS DIRECTED BY THE ENGINEER. THE ESTIMATED QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY AND ARE TO BE USED FOR PROPOSED GUARDRAIL RUNS:

- ITEM 203 41 CY EMBANKMENT
- ITEM 601 132 CY CRUSHED AGGREGATE SLOPE PROTECTION

EMBANKMENT SHALL BE USED TO OBTAIN A GRADED SLOPE OF 10:1 OR FLATTER THROUGHOUT THE GUARDRAIL RUN UP TO FACE OF GUARDRAIL.

CRUSHED AGGREGATE SLOPE PROTECTION SHALL BE USED IN AREAS OF OBVIOUS EROSION TO GRADED SHOULDER.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

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. 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.

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.

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.

ITEM 606 GUARDRAIL, TYPE MGS WITH LONG POSTS

THIS ITEM 606 SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO REPLACE EXISTING GUARDRAIL USING STEEL POSTS, AS DIRECTED BY THE ENGINEER. THE GUARDRAIL POSTS SHALL CONFORM TO ITEM 606 AND 710.15 OF THE CMS.

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 180 CU. YD.
- 659, REPAIR SEEDING AND MULCHING 81 SQ. YD.
- 659, COMMERCIAL FERTILIZER 0.49 TON
- 659, LIME 0.33 ACRES
- 659, WATER 5 M. GAL.
- 832, EROSION CONTROL 6500 EACH

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.

ENVIRONMENTAL COMMITMENTS

THE DISTRICT ENVIRONMENTAL COORDINATOR (DEC) IS PHOENIX NEAL AND CAN BE REACHED AT 419-373-4329.

THE CONTRACTOR SHALL PERFORM ALL WORK WITHIN THE EXISTING RIGHT OF WAY.

NO TREES SHALL BE REMOVED UNDER THIS PROJECT. THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. 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.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, 3/4", AS PER PLAN ASPHALT GRINDINGS SHALL BE DELIVERED TO THE FULTON COUNTY ENGINEERS OFFICE. ADDRESS: 9120 CR-14, WAUSEON OH. (COUNTY ENGINEER FRANK ONWEILLER)

ITEM 202 - GUARDRAIL REMOVED, AS PER PLAN GUARDRAIL POSTS AT SLM 00.33 (STA. 17+00 TO STA. 22+00) SHALL BE SAWED OFF AT GRADE AND LEFT IN PLACE AT THE DIRECTION OF THE PROJECT ENGINEER.

FUL-108-0.00

GENERAL NOTES

DESIGN AGENCY



DESIGNER MJF

REVIEWER DAR 2-1-21

PROJECT ID 92361


SHEET TOTAL P.3 19

FUL-108-0.00

SHEET NUM.								PART.					ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	7	8	16	17	18	19	01/STR/PV	02/S<2/PV	03/S<2/PV	04/NFP/PV	05/SAF/OT						
ROADWAY																		
LS								LS					201	11000	LS		CLEARING AND GRUBBING	
			32								32		202	23000	32	SY	PAVEMENT REMOVED, 9"	
		1,682						1,682					202	23000	1,682	SY	PAVEMENT REMOVED	
			200								200		202	30000	200	SF	WALK REMOVED	
			20								20		202	32000	20	FT	CURB REMOVED	
				280							280		202	32500	280	FT	CURB AND GUTTER REMOVED	
		963						550	238	175			202	38001	963	FT	GUARDRAIL REMOVED, AS PER PLAN	
		3						3					202	42040	3	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T	
		5						5					202	42010	5	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E	
			281	14		8	4	307					203	10000	307	CY	EXCAVATION	
			1,682					1,682					204	10000	1,682	SY	SUBGRADE COMPACTION	
41				73	127	156	7	404					204	20000	404	CY	EMBANKMENT	
			57					57					206	10500	57	TON	CEMENT	
			1,871					1,871					206	11000	1,871	SY	CURING COAT	
			1,871					1,871					206	15020	1,871	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	
			LS					LS					206	30000	LS		MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	
		7						6	1				209	60500	7	MILE	LINEAR GRADING	
		13						8	2	3			209	15000	13	STA	RESHAPING UNDER GUARDRAIL	
6.06								5.63	0.43				209	72050	6.06	MILE	PREPARING SUBGRADE FOR SHOULDER PAVING	
		913						525	225	163			606	15100	913	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS	
		51						25	13	13			606	17360	51	FT	GUARDRAIL, TYPE MGS, LONG-SPAN	
		5						1	2	2			606	26150	5	EACH	ANCHOR ASSEMBLY, MGS TYPE E - MASH 2016	
		3						3					606	26550	3	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
			525								525		608	10000	525	SF	4" CONCRETE WALK	
			2,250								2,250		608	52000	2,250	SF	CURB RAMP	
1											1		623	39500	1	EACH	MONUMENT BOX ADJUSTED TO GRADE	
		35						19	9	7			626	00116	35	EACH	BARRIER REFLECTOR, TYPE 5 - BIDIRECTIONAL	
EROSION CONTROL																		
132								132					601	20000	132	SY	CRUSHED AGGREGATE SLOPE PROTECTION	
2								2					659	00100	2	EACH	SOIL ANALYSIS TEST	
180								180					659	00300	180	CY	TOPSOIL	
				600	402	554	63	1,619					659	00500	1,619	SY	SEEDING AND MULCHING, CLASS 1	
81								81					659	14000	81	SY	REPAIR SEEDING AND MULCHING	
0.49								0.49					659	20000	0.49	TON	COMMERCIAL FERTILIZER	
0.33								0.33					659	31000	0.33	ACRE	LIME	
5								5					659	35000	5	MGAL	WATER	
6,500								6,500					832	30000	6,500	EACH	EROSION CONTROL	
DRAINAGE																		
1											1		611	98630	1	EACH	CATCH BASIN ADJUSTED TO GRADE	
5											5		611	99654	5	EACH	MANHOLE ADJUSTED TO GRADE	
PAVEMENT																		
2,700								2,500	100	100			253	02000	2,700	CY	PAVEMENT REPAIR	
		71,848						44,836	4,928	22,084			254	01001	71,848	SY	PAVEMENT PLANING, ASPHALT CONCRETE- 3 1/4", AS PER PLAN	
		468						468					301	46000	468	CY	ASPHALT CONCRETE BASE, PG64-22	
		281						281					304	20000	281	CY	AGGREGATE BASE	
		10,387						6,605	690	3,092			407	20000	10,387	GAL	NON-TRACKING TACK COAT	
130		3,064						2,059	215	920			442	10000	3,194	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	
64		3,575						2,319	245	1,075			442	10100	3,639	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	
			50								50		609	12000	50	FT	COMBINATION CURB AND GUTTER, TYPE 2	
			50								50		609	26000	50	FT	CURB, TYPE 6	
		738						629	109				617	10100	738	CY	COMPACTED AGGREGATE	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER
MJF

REVIEWER
DAR 2-1-21

PROJECT ID
92361

SHEET TOTAL
P.5 19