UTILITIES

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

CHARTER COMMUNICATIONS

3760 INTERCHANGE DR.

COLUMBUS, OH 43204

PANHANDLE EASTERN PIPELINE

3990 CROOKED LAKE RD.

PH: (614) 255-6340

HOWELL, MI 48843

PH: (517) 546-4770

255 RIVERVIEW AVE

PH: (419) 592-4010

NAPOLEON, OH 43545

CITY OF NAPOLEON

CENTURYLINK 175 ASHLAND RD. MANSFIELD, OH 44902 PH: (419) 755-7183

OHIO GAS COMPANY P.O. BOX 528 BRYAN, OH 43506 PH: (800) 331-7396

TOLEDO EDISON 6099 ANGOLA RD. HOLLAND, OHIO 43528 PH: (419) 249-5218

CITY OF WAUSEON 230 CLINTON ST. WAUSEON. OH 43567 PH: (419) 335-9871

THE LOCATION OF THE UNDERGOUND 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 RESURF-ACING 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

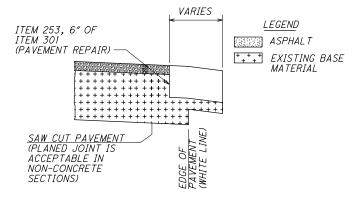
NO PLANED SURFACES SHALL BE OPEN TO THE PUBLIC FOR MORE THAN 7 DAYS. IF THE PLANED SURFACE IS OPEN FOR MORE THAN 7 DAYS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR THE PAVEMENT FAILURES THAT OCCURRED AFTER THE 7 DAY LIMIT.

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





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 E,
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:

TTEM 203	41	CY	EMBANKMENT
ITEM 601	132	СҮ	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.

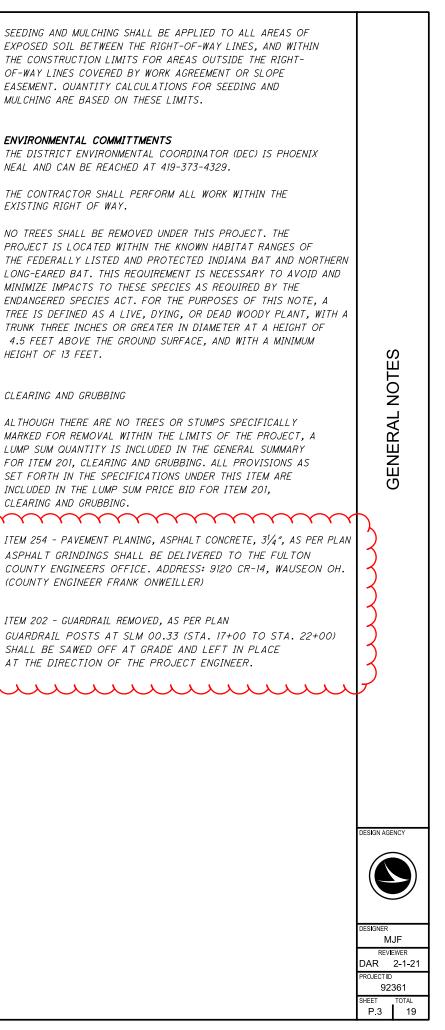
ITEM 606 GUARDRAIL, TYPE MGS WITH LONG POSTS

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. IOPSOL 180 CU. YE 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

8 UL-108-0 Ē



·			S	HEET NU	М. 1				PART.					ITEM ITEM	ITEM	GRAND		D
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		EXT	TOTAL		
LS									LS					201	11000	LS		CLEARING AND GRUBBING
		1 000	32						1.000			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	
			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	ANOHORASSEMBLY REMOVED TYPET
		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
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		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
			505									525		000	10000	505	05	
			525 2,250									2,250		608 608	10000 52000	525 2,250	SF SF	4" CONCRETE WALK CURB RAMP
1			2,250									2,250		608	39500	2,250	EACH	MONUMENT BOX ADJUSTED TO GRADE
		35							19	9	7	1		626	00116	35	EACH	BARRIER REFLECTOR, TYPE 5 - BIDIRECTIONAL
		00							10		1			020	00110	00	E/(OIT	
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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	\sim	\sim	\sim						81	\sim	\sim		\sim	659	14000	81	SY	REPAIR SEEDING AND MULCHING
		\sim	* * *	YY	YYY	YY	<u> Y Y Y</u>	YY	Y Y Y	Y Y	$r \gamma \gamma$	X X	(Y Y		$\gamma \gamma \gamma$	0.49		
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6,500									6,500					832	30000	6,500	EACH	EROSION CONTROL
0,000									0,000					002	00000	0,000	2/(011	
1												1		611	98630	1	EACH	CATCH BASIN ADJUSTED TO GRADE
5												5		611	99654	5	EACH	MANHOLE ADJUSTED TO GRADE
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",
		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
					1	1			2,059	215	920			442	10000	3,194	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM
130		3,064																
130 64		3,064 3,575							2,319	245	1,075			442	10100	3,639	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19
		,	50						2,319	245	1,075	50		609	12000	50	FT	COMBINATION CURB AND GUTTER, TYPE 2
		,	50 50						2,319 	245	1,075	50 50						

DESCRIPTION	SEE SHEET NO.	
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PAVEMENT		
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		DESIGNER
IM, TYPE A (446)		MJF
19 MM, TYPE A (446)		REVIEWER
		DAR 2-1-21
		PROJECT ID
		92361
		SHEET TOTAL P.5 19
		1.0 18