

UTILITIES

THE CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE AT EACH LOCATION WHERE WORK IS PERFORMED, IN ACCORDANCE WITH SECTIONS 105.07 AND 107.16 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, OHIO811, THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEADQUARTERS (MICHELLE CHANEY AT 330-786-2267) AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN ALL AREAS.

OUPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY)
 OGPUPS 1-800-925-0988
 ODOT 330-786-2267 MICHELLE CHANEY

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

AT&T
 The Ohio bell telephone Company
 ATTN: Harold Maynard
 50 W. Bowery St.
 6th Floor
 Akron, OH 44308
 330-384-8974
 216-548-1674 Cell

BoCor Holdings
 ATTN: Todd Suckow
 6616 Promway Ave.
 North Canton, OH 44720
 330-506-2531
 todd_j_suckow@yahoo.com

Dominion Energy
 ATTN: Micah Risacher
 320 Springside Drive
 Suite 320
 Akron, OH 44333
 330-664-2638
 440-371-1533 Cell
 Micah.J.Risacher@dominionenergy.com

Ohio Edison
 ATTN: Mike Beck
 730 South Ave.
 Youngstown, OH 44502
 330-740-7704

Verizon Business/MCI
 ATTN: Daniel Arz
 12300 Ridge Road
 North Royalton, OH 44133
 120 Ravine Street
 Akron, OH 44303
 440-457-4832
 216-570-9343 Cell
 Daniel.arz@verizon.com

Youngstown Water Department
 ATTN: Dan Blakley
 26 S. Phelps Street
 Youngstown, OH 44503
 330-743-5340
 dblakely@youngstownohio.gov

ODOT ITS LOCATES UTILITIES FOR ODOT INTELLIGENT TRANSPORTATION SYSTEMS (ITS), INCLUDING POWER, COMMUNICATION, FIBER, CCTV, DMS, HAR, ETC., ARE NOT CURRENTLY A PART OF THE OHIO UTILITIES PROTECTION SERVICES (OUPS) AND THE CONTRACTOR SHALL CONTACT THE ODOT ITS LAB BY EMAIL TO REQUEST LOCATES OF ITS INFRASTRUCTURE. THE CONTRACTOR SHALL PROVIDE AT LEAST 48 HOURS (EXCLUDING WEEKENDS AND LEGAL HOLIDAYS) NOTICE FOR THE LOCATES TO BE PERFORMED.

ODOT ITS LAB
 1606 WEST BROAD STREET
 COLUMBUS, OHIO 43223
 MAIN LINE: (614) 387-4113
 CEN.ITS.LAB@DOT.OHIO.GOV

SEE SUPPLEMENTAL SPECIFICATION 809 FOR ALL DEVICE DOWNTIME REQUIREMENTS.

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 255 - FULL DEPTH REMOVAL AND RIGID REPLACEMENT, CLASS QC1

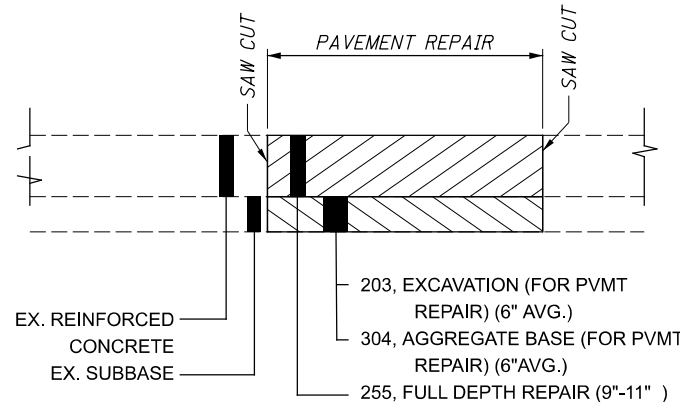
A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL CONSIST OF CUTTING AND REMOVING DETERIORATED PAVEMENT FULL DEPTH AND PLACING 9"-11" CLASS QC1 CONCRETE. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. THE ENGINEER SHALL DETERMINE WHICH AREAS ARE TO BE REPAIRED. PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REMOVED AND REPLACED TO THE LIMITS DESIGNATED BY THE ENGINEER. THE REPAIR LOCATIONS MUST BE DOCUMENTED FOR FUTURE REFERENCE.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AT THE FOLLOWING LOCATIONS:

MAH-62 - SLM 18.67 TO 19.36 - EB	850 SY
MAH-62 - SLM 18.67 TO 19.36 - WB	700 SY
MAH-711 - SLM 0.37 TO 2.05 - NB	90 SY
MAH-711 - SLM 0.37 TO 2.05 - SB	140 SY
POR-422 - SLM 0.00 TO 0.17 - EB	100 SY
POR-422 - SLM 0.00 TO 0.17 - WB	50 SY
EXTRA	570 SY

ITEM 255, FULL DEPTH REMOVAL AND RIGID REPLACEMENT, CLASS QC1, 2,500 SY

ITEM 255, FULL DEPTH PAVEMENT SAWING, 11,250 FT



ITEM 621 - RAISED PAVEMENT MARKER REMOVAL

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN PROVIDED AND SHALL BE USED AS DIRECTED BY THE ENGINEER FOR THE REMOVAL, DISPOSAL AND REPLACEMENT OF EXISTING RAISED PAVEMENT MARKERS THAT ARE WITHIN THE LIMITS OF THE PAVEMENT REPAIRS AS NEEDED.

ALL EQUIPMENT, MATERIALS, AND LABOR REQUIRED TO PERFORM THIS WORK SHALL BE INCLUDED UNDER THE CONTRACT BID PRICE QUANTITY THAT WILL BE CARRIED TO THE GENERAL SUMMARY:

621, RAISED PAVEMENT MARKER REMOVED, 10 EACH
621, RPM, 10 EACH

PAVEMENT MARKINGS

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED TO BE USED AS DIRECTED BY THE PROJECT ENGINEER TO MATCH EXISTING PAVEMENT MARKINGS.

THE UNIT BID PRICES ON THESE PAY ITEMS WILL NOT BE ADJUSTED AS PER CMS 104.02.D.

ITEM 642 - EDGE LINE, 6"	1 MILES
ITEM 642 - LANE LINE, 6"	1 MILE
ITEM 642 - CHANNELIZING LINE, 8"	100 FT

CROSS SECTIONS

CROSS SECTIONS HAVE BEEN PROVIDED FOR OVERHEAD SIGNS. THE CONTRACTOR SHALL PLACE OVERHEAD SIGNS OVER LANES ACCORDING TO THESE SIGNS.

GROUND AND OVERHEAD MOUNTED SIGNS

GROUND AND OVERHEAD MOUNTED SIGNS ON EXISTING BEAMS/TRUSSES/CANTILEVERS SHALL BE INSTALLED AT THE SAME HEIGHT AS EXISTING SIGNS.

UNDERDRAIN FLUSHING AND RECONDITIONING

ALL EXISTING UNDERDRAINS EXPOSED DURING SLAB REPLACEMENTS WILL BE FLUSHED. THE OBSTRUCTIONS ARE TO BE LOCATED AND REPAIRED. THE FOLLOWING PROCEDURES AND METHODS OF PAYMENT ARE PROVIDED. A COPY OF THE ORIGINAL CONSTRUCTION PLANS SHOWING THE LOCATION OF THE UNDERDRAINS AND OUTLETS IS AVAILABLE ON FILE AT THE DISTRICT OFFICE.

1. ITEM 605, UNDERDRAIN MISC.: UNDERDRAIN CLEANOUT

THIS ITEM WILL CONSIST OF EXPOSING THE UPPER END OF AN UNDERDRAIN RUN OR A SUBSEQUENT INTERMEDIATE UNDERDRAIN OPENING. EACH OPENING WILL INCLUDE REPLACING THE EXISTING 4" OR 6" UNDERDRAIN PIPE BROKEN IN MAKING THE OPENING AND THE BACKFILL WITH NO. 8 AGGREGATE, ALL IN ACCORDANCE WITH SECTION 605 OF CMS. PAYMENT FOR THE OPERATIONS DESCRIBED ABOVE WILL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS INCIDENTAL TO COMPLETING THIS ITEM INCLUDING A MAXIMUM OF 6 FEET OF UNDERDRAIN PIPE, PAYMENT WILL BE MADE UNDER ITEM 605, UNDERDRAIN MISC.: UNDERDRAIN CLEANOUT.

2. ITEM 616, WATER, AS PER PLAN

AFTER EXPOSED UNDERDRAIN PIPE HAS BEEN REMOVED THE LINE WILL BE FLUSHED WITH WATER USING A MINIMUM SIZE HOSE OF 2" AND A MAXIMUM VOLUME OF WATER CALCULATED AT 1½ GALLONS PER FOOT (1.5 GAL/FT) OF UNDERDRAIN PIPE. THE FLUSHING OPERATION MAY BE STOPPED AT ANY TIME BY THE ENGINEER IF FIELD OPERATIONS SHOW THE LINE TO BE PLUGGED OR OPERATING EFFICIENTLY. IN THE EVENT THE LINE IS SHOWN TO BE PLUGGED OR FLOW RESTRICTED, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE RESTRICTION BY RODDING OR SIMILAR METHODS APPROVED BY THE ENGINEER. THE COST OF RODDING THE LINE WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 616, WATER, AS PER PLAN. THE METHOD OF MEASUREMENT AND PAYMENT WILL BE ACCORDING TO CMS 616.

**3. ITEM 605, 6" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN
 ITEM 605, 4" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN**

WHERE A SECTION OF UNDERDRAIN PIPE IS FOUND TO BE BROKEN OR PLUGGED, THE SECTION WILL BE ISOLATED BY RODDING. THE SECTION WILL BE REPLACED AT APPROXIMATELY THE LINE GRADE IN ITS ENTIRETY WITH 4" OR 6" UNCLASSIFIED PIPE UNDERDRAINS ACCORDING TO CMS 605. THE COST OF REMOVAL OF THE EXISTING BROKEN OR PLUGGED UNDERDRAIN SHALL BE CONSIDERED INCIDENTAL TO THIS WORK. THE CONTRACTOR WILL EXERCISE CARE NOT TO DAMAGE OR REMOVE MORE EXISTING UNDERDRAIN THAN IS NECESSARY TO REMOVE THE BROKEN OR PLUGGED SECTION. THE METHOD OF MEASUREMENT AND PAYMENT WILL BE ACCORDING TO CMS 605.

4. ITEM 611, 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET

EXISTING UNDERDRAIN OUTLETS WHICH ARE BROKEN, PLUGGED, OR FLOW RESTRICTED WILL BE REPLACED AS DIRECTED BY THE ENGINEER. NEW UNDERDRAIN OUTLETS WILL BE TIED INTO THE PROPOSED UNDERDRAINS ALONG THE EDGE OF SHOULDERS. ALL NECESSARY BENDS, TEES, OR BRANCHES REQUIRED FOR CONNECTIONS ARE INCLUDED IN THE BASIS OF PAYMENT FOR ITEM 605, 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET. THE METHOD OF MEASUREMENT AND PAYMENT WILL BE ACCORDING TO CMS 605.

AFTER ALL REPAIRS ARE MADE TO A RUN OF UNDERDRAIN, A FINAL FLUSHING WILL BE PERFORMED TO DETERMINE WHETHER THE RUN IS FUNCTIONING PROPERLY, AFTER WHICH THE CLOSING OF THE INITIAL OPENING WILL BE PERMITTED. PAYMENT FOR THIS OPERATION WILL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 605 UNDERDRAIN ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE LISTED WORK:

ITEM 605, 4" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN, 150 FT
ITEM 605, 6" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN, 150 FT
ITEM 605, UNDERDRAIN MISC.: UNDERDRAIN CLEANOUT, 24 EA
ITEM 616, WATER, AS PER PLAN, 50 M GAL
ITEM 611, 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET, 50 FT

ITEM 203 - EXCAVATION (FOR PAVEMENT REPAIR)

THIS ITEM OF WORK SHALL CONSIST OF REMOVING AND DISPOSING OF ALL UNSUITABLE MATERIAL BY EXCAVATING THE EXISTING SUBGRADE AND SUBBASE TO AN AVERAGE DEPTH OF 6 INCHES OR AS DIRECTED BY THE ENGINEER. EXACT LIMITS OF REMOVAL SHALL BE DETERMINED BY THE ENGINEER. ALL EQUIPMENT, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203 EXCAVATION (FOR PAVEMENT REPAIR). THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

203, EXCAVATION (FOR PAVEMENT REPAIR), 420 CU YD
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ITEM 304 - AGGREGATE BASE (FOR PAVEMENT REPAIR)

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED AND SHALL BE USED AS DIRECTED BY THE ENGINEER TO BACKFILL AREAS WHICH WERE EXCAVATED UNDER ITEM 203 EXCAVATION (FOR PAVEMENT REPAIR). THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

304, AGGREGATE BASE (FOR PAVEMENT REPAIR), 420 CU YD
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GENERAL NOTES

MAH/POR-62/VAR-19.04/VAR

MODEL: Sheet PAPER: 17x11 (in.) DATE: 6/11/2021 TIME: 7:17:11 AM USER: mandrasi pvc:\ohio\dot-pw-bentley.com\shahid-pw-02\Documents\01 Active Projects\District 04\Main\ohio\102328\400-Engineering\Roadway\Sheets\102328_GN001.dgn

DESIGN AGENCY



DESIGNER

CMR

REVIEWER

MJA 03-10-21

PROJECT ID

102328

SHEET


TOTAL

3 | 15

SHEET NUM.										PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
3	4	5	6	7	01/NHS/PV	02/IMS/OT												
ROADWAY																		
	420									420		203	10000	420	CY	EXCAVATION (FOR PAVEMENT REPAIR)		
EROSION CONTROL																		
	50									50		616	10001	50	MGAL	WATER, AS PER PLAN	3	
										1,000		832	30000	1,000	EACH	EROSION CONTROL		
DRAINAGE																		
		250								250		605	05200	250	FT	4" UNCLASSIFIED PIPE UNDERDRAINS		
	150									150		605	05201	150	FT	4" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN	3	
		250								250		605	13300	250	FT	6" UNCLASSIFIED PIPE UNDERDRAINS		
	150									150		605	13301	150	FT	6" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN	3	
	24									24		605	98300	24	EACH	UNDERDRAINS, MISC.: UNDERDRAIN CLEANOUT	3	
	50									50		611	00510	50	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS		
PAVEMENT																		
	2,500									2,500		255	10010	2,500	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC1	changed from RRCM to QC1	
	11,250									11,250		255	20000	11,250	FT	FULL DEPTH PAVEMENT SAWING		
		1,000								1,000		258	10000	1,000	EACH	RETROFIT DOWEL BAR		
	420									420		304	20000	420	CY	AGGREGATE BASE (FOR PAVEMENT REPAIR)		
TRAFFIC CONTROL																		
	10									10		621	00100	10	EACH	RPM		
	10									10		621	54000	10	EACH	RAISED PAVEMENT MARKER REMOVED		
					80					80		630	06500	80	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6X9		
					4					4		630	09000	4	EACH	BREAKAWAY STRUCTURAL BEAM CONNECTION		
					41					41		630	75000	41	EACH	SIGN ATTACHMENT ASSEMBLY		
					30					30		630	80200	30	SF	SIGN, GROUND MOUNTED EXTRUSHEET		
					2,454					2,454		630	80224	2,454	SF	SIGN, OVERHEAD EXTRUSHEET		
					4					4		630	84500	4	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION		
					1					1		630	85400	1	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL		
					2					2		630	85600	2	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND REERECTION		
					6					6		630	86205	6	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND STORAGE, AS PER PLAN	4	
					11					11		630	87400	11	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL		
	1									1		642	00104	1	MILE	EDGE LINE, 6", TYPE 1		
	1									1		642	00204	1	MILE	LANE LINE, 6", TYPE 1		
	100									100		642	00400	100	FT	CHANNELIZING LINE, 8", TYPE 1		
STRUCTURE REPAIRS																		
																	FOR MAH-711-0037L ESTIMATED QUANTITIES	12
																	FOR MAH-711-0038R ESTIMATED QUANTITIES	12
																	FOR MAH-711-0125 ESTIMATED QUANTITIES	12
																	FOR MAH-711-0141 ESTIMATED QUANTITIES	12
																	FOR MAH-711-0200 ESTIMATED QUANTITIES	12
																	FOR TRU-711-0054 ESTIMATED QUANTITIES	12
MAINTENANCE OF TRAFFIC																		
				200						160	40	614	11110	200	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		
				20						20		614	12460	20	EACH	WORK ZONE MARKING SIGN (ALL PHASES)		
				20						20		614	13000	20	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC		
					12					12		614	18600	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN		
INCIDENTALS																		
										LS		614	11000	LS		MAINTAINING TRAFFIC		
										6		619	16010	6	MNTH	FIELD OFFICE, TYPE B		
										LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING		
										LS		624	10000	LS		MOBILIZATION		

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER
CMR

REVIEWER
MJA 03-10-21

PROJECT ID
102328

SHEET TOTAL
7 15