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

BoCor Holdings

330-506-2531

Ohio Edison

ATTN: Mike Beck

ATTN: Dan Blakley

Youngstown, OH 44503 330-743-5340

26 S. Phelps Street

Youngstown, OH 44502

Youngstown Water Department

dblakely@youngstownohio.gov

730 South Ave.

330-740-7704

ATTN: Todd Suckow

6616 Promwav Ave

North Canton, OH 44720

todd j suckow@yahoo.com

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

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

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

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

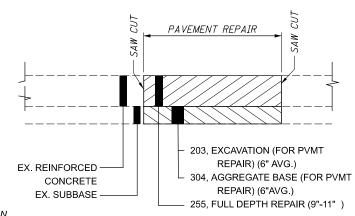
A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL CONSIST OF CUTTING AND REMOVING DETERIORATED PAVEMENT FULL DEPTH AND PLACING 9"-11" CLASS QC1 CONCRETE. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. THE ENGINEER SHALL DETERMINE 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 PRO AS DIRECTED BY THE PROJECT ENGINEER TO PAVEMENT MARKINGS.	
THE UNIT BID PRICES ON THESE PAY ITEMS W ADJUSTED AS PER CMS 104.02.D.	/ILL NOT BE
ITEM 642 - EDGE LINE, 6" ITEM 642 - LANE LINE, 6" ITEM 642 - CHANNELIZING LINE, 8"	1 MILES 1 MILE 100 FT
CROSS SECTIONS	
CROSS SECTIONS HAVE BEEN PROVIDED FOR THE CONTRACTOR SHALL PLACE OVERHEAD ACCORDING TO THESE SIGNS.	
GROUND AND OVERHEAD MOUNTED SIGNS	
GROUND AND OVERHEAD MOUNTED SIGNS O TRUSSES/CANTILEVERS SHALL BE INSTALLEE HEIGHT AS EXISTING SIGNS.	
UNDERDRAIN FLUSHING AND RECONDITIONIN	IG
ALL EXISTING UNDERDRAINS EXPOSED DURIN MENTS WILL BE FLUSHED. THE OBSTRUCTION LOCATED AND REPAIRED. THE FOLLOWING PF METHODS OF PAYMENT ARE PROVIDED. A CO ORIGINAL CONSTRUCTION PLANS SHOWING T THE UNDERDRAINS AND OUTLETS IS AVAILAB THE DISTRICT OFFICE.	NS ARE TO BE ROCEDURES AND PY OF THE THE LOCATION OF
1. ITEM 605, UNDERDRAIN MISC.: UNDERDRAI	N CLEANOUT
THIS ITEM WILL CONSIST OF EXPOSING THE L AN UNDERDRAIN RUN OR A SUBSEQUENT INT UNDERDRAIN OPENING. EACH OPENING WILL THE EXISTING 4" OR 6" UNDERDRAIN PIPE BR THE OPENING AND THE BACKFILL WITH NO. 8 ALL IN ACCORDANCE WITH SECTION 605 OF OF FOR THE OPERATIONS DESCRIBED ABOVE WI LABOR, TOOLS, EQUIPMENT, AND MATERIALS COMPLETING THIS ITEM INCLUDING A MAXIMU UNDERDRAIN PIPE, PAYMENT WILL BE MADE U UNDERDRAIN MISC.: UNDERDRAIN CLEANOUT	ERMEDIATE INCLUDE REPLACING OKEN IN MAKING AGGREGATE, MS. PAYMENT LL INCLUDE ALL INCIDENTAL TO JM OF 6 FEET OF JNDER ITEM 605,
2. ITEM 616, WATER, AS PER PLAN	
AFTER EXPOSED UNDERDRAIN PIPE HAS BEE LINE WILL BE FLUSHED WITH WATER USING A HOSE OF 2" AND A MAXIMUM VOLUME OF WAT AT 1½ GALLONS PER FOOT (1.5 GAL/FT) OF UN THE FLUSHING OPERATION MAY BE STOPPED THE ENGINEER IF FIELD OPERATIONS SHOW PLUGGED OR OPERATING EFFICIENTLY. IN TH IS SHOWN TO BE PLUGGED OR FLOW RESTRI THE RESPONSIBILITY OF THE CONTRACTOR T RESTRICTION BY RODDING OR SIMILAR METH THE ENGINEER. THE COST OF RODDING THE INCLUDED IN THE UNIT PRICE BID FOR ITEM 6 PER PLAN. THE METHOD OF MEASUREMENT A BE ACCORDING TO CMS 616.	MINIMUM SIZE TER CALCULATED NDERDRAIN PIPE. AT ANY TIME BY THE LINE TO BE IE EVENT THE LINE CTED, IT WILL BE TO LOCATE THE HODS APPROVED BY LINE WILL BE 16, WATER, AS

MAH/POR-62/VAR-19.04/VAR IME (i

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 WETHER 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

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 ESTIMATEDQUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

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





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	150	200							150		605	05200	150	FT	4" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN
		250							250		605	13300	250	FT	6" UNCLASSIFIED PIPE UNDERDRAINS
	150								150		605	13301	150	FT	6" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN
	24								24		605	98300	24	EACH	UNDERDRAINS, MISC.: UNDERDRAIN CLEANOUT
	50								50		611	00510	50	FT	6" CONDUIT. TYPE F FOR UNDERDRAIN OUTLETS
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	11,250	4 000							11,250		255	20000	11,250	FT	FULL DEPTH PAVEMENT SAWING
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	420								420		304	20000	420		AGGREGATE DAGE (FOR FAVENIENT REFAIR)
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	10								10		621	00100	10	EACH	RPM
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					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 FOU
					1 2					1	630 630	85400 85600	1	EACH EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DIS REMOVAL OF GROUND MOUNTED MAJOR SIGN AND RE
					2					2	030	03000	2	LACIT	
					6					6	630	86205	6	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM
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	1								1		642	00104	1	MILE	EDGE LINE, 6", TYPE 1
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INCIDENTALS		DESIGN AGENCY
		REVIEWER MJA 03-10-21
		PROJECT ID
		102328 SHEET TOTAL
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