LABOR AND MATERIALS REQUIRED TO COMPLETE THIS ITEM OF WORK AS DESCRIBED.

IN ADDITION TO THE REQUIREMENTS OF ODOT CMS 203. THIS ITEM SHALL INCLUDE THE ADDITIONAL REQUIREMENTS

ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO PERFORM THE WORK DESCRIBED ABOVE TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED IN THE

DRAINAGE

<u>CROSSINGS AND CONNECTIONS TO EXISTING PIPES</u> <u>AND UTILITIES</u>

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

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, THE ENGINEER SHALL BE NOTIFIED 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, THE ENGINEER SHALL
BE NOTIFIED 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 SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

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

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

ITEM SPECIAL - PIPE CLEANOUT

THIS WORK CONSISTS OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. DISPOSE OF ALL MATERIAL PER 105.16 AND 105.17. CLEAN OUT TO THE APPROVAL OF THE ENGINEER.

CLEANOUT OF THE PIPE IS PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL, PIPE CLEANOUT. THIS PRICE INCLUDES THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

<u> ITEM 611 - MANHOLE. 3, AS PER PLAN</u> ITEM 611 - CATCH BASIN, NO. 2-3/2-4, AS PER PLAN

ALL REQUIREMENTS OF THE 2019 ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL APPLY EXCEPT AS MODIFIED

ITEM 613 - LOW STRENGTH MORTAR SHALL BE USED TO BACKFILL THE STRUCTURE EXCAVATION TO A MINIMUM DEPTH OF AT LEAST 12" ABOVE THE CROWN OF ALL PROPOSED CONDUIT.

ALL LABOR. EQUIPMENT. MATERIALS, AND INCIDENTALS REQUIRED TO PERFORM THE WORK DESCRIBED TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH FOR ITEM 611 - MANHOLE, NO. 3, AS PER PLAN AND ITEM 611 - CATCH BASIN, NO. 2-3/2-4, AS PER PLAN.

DRAINAGE DISCHARGE CONTINUANCE

FURNISH A DRAINAGE DISCHARGE CONTINUANCE FOR ANY DRAINAGE DISCHARGE DISCHARGE CONTINUANCE FOR ANY DRAINAGE DISCHARGE DISTURBED BY THE WORK AND NOT SHOWN IN THE PLANS. THE LOCATION, TYPE (CONDUIT OR SWALE), SIZE AND GRADE OF THE DRAINAGE DISCHARGE CONTINUANCE WILL BE AGREED TO BY THE ENGINEER.

FURNISH AN INSPECTION WELL AT THE RIGHT OF WAY LINE IN PER STANDARD CONSTRUCTION DRAWING DM-3.1 FOR EACH DRAINAGE DISCHARGE THAT OUTLETS THROUGH A CURB OPENING OR INTO A STORM SEWER OR DRAINAGE STRUCTURE. THE COST IS INCLUDED IN ITEM 611, INSPECTION WELL.

FURNISH A WELL GRADED TRANSITION BETWEEN THE DITCH AND THE SWALE WHEN OUTLETTING A SWALE TO A DITCH. THE COST FOR THE GRADED TRANSITION IS INCLUDED IN ITEM 203, EMBANKMENT, AS PER PLAN.

FURNISH AN EROSION CONTROL PAD AS SHOWN IN STANDARD CONSTRUCTION DRAWING DM-1.1 WHEN OUTLETTING A CONDUIT TO A DITCH. THE COST FOR THE EROSION CONTROL PAD IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE.

FURNISH A DRILLED HOLE OR A CURB SECTION WHEN OUTLETTING A CONDUIT THROUGH A CURB OPENING. THE COST OF DRILLING OR FURNISHING THE CURB SECTION WITH HOLE IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE.

FURNISH A DRILLED CORE HOLE WHEN OUTLETTING INTO A STORM SEWER OR DRAINAGE STRUCTURE. THE COST OF THE DRILLED CORE HOLE IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE F FOR DRAINAGE DISCHARGE CONTINUANCE.

DOCUMENTATION

PROVIDE WRITTEN DOCUMENTATION TO THE ENGINEER AND TO THE DISTRICT R/W PERMIT OFFICE. THE DOCUMENTATION INCLUDES THE CONSTRUCTION PROJECT NUMBER, PID, COUNTY, ROUTE, SECTION, LATITUDE AND LONGITUDE OF THE DRAINAGE DISCHARGE AT THE R/W, THE NAME OF PROPERTY OWNER WITH ADDRESS, THE DATE THE DRAINAGE DISCHARGE WAS LOCATED, THE DATE THE DRAINAGE DISCHARGE CONTINUANCE WAS FURNISHED, A DETAILED DESCRIPTION OF THE WORK AND PICTURES OF THE DRAINAGE DISCHARGE CONTINUANCE (IN PDF OR JPEG FORMATI. THE DOCUMENTATION IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE C, E, OR F FOR DRAINAGE DISCHARGE CONTINUANCE OR ITEM 203, EMBANKMENT, AS

DRAINAGE DISCHARGE CONTINUANCE REMOVAL

THE ENGINEER MAY REQUIRE THE NEWLY INSTALLED DRAINAGE DISCHARGE CONTINUANCE TO BE REMOVED.

REMOVE THE NEWLY INSTALLED CONDUIT AND ANY EXISTING CONDUIT TO THE RIGHT OF WAY LINE. FOR CONDUIT THAT OUTLETS THROUGH THE CURB, RESTORE THE CURB BY FILLING THE HOLE WITH CLASS OC I CONCRETE OR REPLACE THE CURB SECTION. FOR CONDUIT THAT OUTLETS TO A STORM SEWER OR DRAINAGE STRUCTURE LEAVE 6 INCHES PROTRUDING OUTSIDE OF THE CONDUIT. PLUG THE PROTRUDING CONDUIT WITH EITHER A MANUFACTURED CAP OR CLASS OC I CONCRETE. FOR CONDUIT THAT OUTLETS TO THE DITCH REMOVE THE EROSION CONTROL PAD. RESTORE ALL AREAS AS REQUIRED. PLUG THE EXISTING CONDUIT REGARDLESS OF SIZE AT THE RIGHT OF WAY LINE WITH CLASS OC I CONCRETE AND RESTORE ALL AREAS AS REQUIRED. ALL COSTS ARE INCLUDED IN ITEM 202, REMOVAL MISC .: CONDUIT.

DAM THE SWALE THAT OUTLETS TO THE DITCH AT THE R/W AS DIRECTED BY THE ENGINEER. ALL COSTS ARE INCLUDED IN ITEM 203, EMBANKMENT AS PER PLAN.

REMOVE THE INSPECTION WELL AND RESTORE ALL AREAS AS REOUIRED. THE COST IS INCLUDED IN ITEM 202, REMOVAL MISC .: INSPECTION WELL .

CONDUIT MATERIAL TYPES

THE FOLLOWING CONDUIT MATERIAL TYPES ARE PERMITTED: 707.33, 707.41 NONPERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, AND 707.52 SDR35.

DRAINAGE DISCHARGE CONTINUANCE (CONT'D)

PAY ITEMS

EACH OF THE PAY ITEMS LISTED BELOW FOR CONDUIT MISCELLANEOUS TYPES C, E AND F FOR DRAINAGE DISCHARGE CONTINUANCE INCLUDE CONDUIT SIZES 2 INCH TO 10 INCH. THERE IS NO COST DIFFERENTIATION FOR SIZE IN THESE PAY

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER IN MAKING THE ABOVE DRAINAGE DISCHARGE CONTINUANCE:

ITEM	611, INSPECTIO	ON WELL	10 EACH
		MISC.: TYPE C FOR E CONTINUANCE	100 FT
		MISC.: TYPE E FOR E CONTINUANCE	100 FT
		MISC.: TYPE F FOR E CONTINUANCE	100 FT
ITEM	1 202, REMOVAL	MISC.: CONDUIT	80 F1
ITEM	1 202, REMOVAL	MISC.: INSPECTION	WELL 2 EACH
ITEM	1 203, EMBANKM	ENT, AS PER PLAN	5 CY

<u> ITEM SPECIAL - FILL & PLUG EXISTING CONDUIT</u>

THIS ITEM SHALL CONSIST OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING 12 INCH AND 18 INCH DIAMETER CONDUIT AND FILLING THE AREA THUS SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

BULKHEADS SHALL BE LOCATED AT THE LIMITS OF THE AREA TO BE FILLED AS INDICATED ON THE PLANS. THE BULKHEADS SHALL CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PUMP THE FILL MATERIAL INTO PLACE OR BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH IS FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR IS THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT THE PIPE MAY BE CRUSHED AND BACKFILLED PER 203, OR IT MAY BE REMOVED. THE LENGTH, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT

ITEM 611 - CATCH BASIN, NO. 5, AS PER PLAN

ALL REQUIREMENTS OF THE 2019 ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL APPLY IN ADDITION TO THE FOLLOWING:

THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATION AND DEPTH PRIOR TO CONSTRUCTION TO CONFIRM THE CATCH BASIN INVERT ELEVATION. THE CONTRACTOR SHALL MATCH THE INVERT ELEVATION TO THE EXISTING CONDUIT

ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO PERFORM THE WORK DESCRIBED TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH FOR ITEM 611 - CATCH BASIN, NO. 5, AS PER PLAN.

ITEM 611 - CONDUIT, TYPE ____ 748.02

WHERE THE PLANS REFERENCE CMS 748.02, THE DISTRICT WILL ALSO ACCEPT 707.65

<u>ITEM 605 - 6" BASE PIPE UNDERDRAINS</u> <u>WITH GEOTEXTILE FABRIC</u>

THE REQUIRED TRENCH AND BACKFILL MATERIAL USED FOR ITEM 605 - 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC SHALL BE EXTENDED TO THE TOP OF THE PROPOSED ITEM 304 - AGGREGATE BASE LAYER AS SHOWN ON THE PROPOSED TYPICAL SECTION ON SHEET 4.

POLYVINYL CHLORIDE (PVC) CONDUIT (748.02)

CONDUITS THAT VIOLATE THE 10-STATE STANDARD SPECIFICATIONS ARE LIMITED TO POLYVINYL CHLORIDE (PVC) PIPE AND JOINTS MEETING THE REQUIREMENTS OF 748.02, AWWA C905. IF THE CONDUIT DIAMETER CALLED OUT IN THE PLANS IS NOT A STANDARD PVC DIAMETER, USE THE NEXT LARGEST STANDARD DIAMETER PVC PIPE. CONDUITS SHALL BE PLACED PER ITEM 611.

EXISTING SUBSURFACE DRAINAGE

WITH GEOTEXTILE FABRIC

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE. UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN PROVIDED FOR THE WORK NOTED ABOVE:

601, TIED CONCRETE BLOCK MAT WITH TYPE I UNDERLAYMENT 8 SY 611, 6" CONDUIT, TYPE F 40 FT

611, PRECAST REINFORCED CONCRETE OUTLET 605, 6" UNCLASSIFIED PIPE UNDERDRAINS

<u>ITEM 611 - MANHOLE ADJUSTED TO GRADE, AS PER PLAN</u>

IN ADDITION TO THE REQUIREMENTS OF CMS 611.10.D FOR MANHOLES, THE CONTRACTOR WILL MAKE A CLEAN CIRCULAR CUT AROUND THE CASTING (48" DIAMETER FOR STORM AND SANITARY MANHOLE CASTINGS, AND 2' IN DIAMETER LARGER THAN THE CASTING DIAMETER FOR ANY CASTINGS THAT ARE LARGER THAN STANDARD MANHOLES SUCH AS TELECOMMUNICATION MANHOLE) AND REMOVE AND DISCARD THE EXISTING CASTING. INSTALL A NEW CASTING TO GRADE (ACCORDING TO TOLERANCES AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1) AFTER THE PAVEMENT SURFACE COURSE HAS BEEN REPLACED.

CMS 499 CLASS OCMS CONCRETE (DYE THE CONCRETE SUCH THAT ITS COLOR CLOSELY MATCHES THE COLOR OF THE SURROUNDING PAVEMENT) WILL BE USED FOR BACKFILLING THE FULL PAVEMENT SECTION AND THE JOINT BETWEEN THE ASPHALT AND CONCRETE WILL BE SEALED WITH CMS 702.01 PG BINDER. EPOXY COATED REBAR SHALL BE PLACED IN THE CONCRETE AT 6" MAXIMUM ON CENTER AND A MINIMUM OF 3.5" CLEARANCE FROM THE TOP, BOTTOM AND SIDES. THE CONCRETE WILL BE VIBRATED SUFFICIENTLY TO ELIMINATE AIR POCKETS UNDER THE FRAME.

PAYMENT WILL INCLUDE REMOVAL OF THE EXISTING MATERIAL, INSTALLATION AND FURNISHING OF A NEW CASTING, AND ALL

ITEM 203 - EMBANKMENT, AS PER PLAN

SPECIFIED IN THE DRAINAGE DISCHARGE CONTINUANCE NOTE ON THIS SHEET.

UNIT PRICE BID FOR ITEM 203 - EMBANKMENT, AS PER PLAN.

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			269						269			441	70101	269	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (PG70-22M)		8	i
			314						314			441	70300	314	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	-		i
								299		299		452	10050	200	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS OC MS	-+		J.
								199		199		452	12050	299 199	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS OC MS	-+		Ô
			1,673					755		1,673		609	12000	1,673	FT	COMBINATION CURB AND GUTTER, TYPE 2	-		Ţ
			ĺ					68		68		609	26000	68	FT	CURB, TYPE 6			9
																			4
			22						22			617	10101	22	CY	COMPACTED AGGREGATE, AS PER PLAN		8	_ _
			916							916		SPECIAL	69012050	916	SY	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS	-+	8	R
			310							310		SFECIAL	03012030	310	31	WATER WORK	-+	0	<u> </u>
				26	1						26	638	02320	26	FT	10" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18	-+		
		100								100		638	04900	100	FT	1" COPPER SERVICE BRANCH			i
		100								100		638	05000	100	FT	1-1/2" COPPER SERVICE BRANCH			1
		100		-	-					100	2	638	05100	100	FT	2" COPPER SERVICE BRANCH	$-\!\!+\!\!$		(F)
				2	+						2	638	08708	2	EACH	10" CUTTING-IN SLEEVE	-+		15
				LS	+		 	 	 	LS	 	638	98100	LS		WATER WORK, MISC.: WATERMAIN INSTALLATION	-+	9	92