DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

BE MADE ON FINAL MEASUREMENTS.

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

611. 6" CONDUIT. TYPE E 20 FT. 611, 6" CONDUIT, TYPE F 20 FT.

601 ROCK CHANNEL PROTECTION TYPE C WITH FILTER 5 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

ITEM SPECIAL - MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D.. AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GAL VANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM: SPECIAL, MAILBOX SUPPORT SYSTEM, SINGLE 4 EACH 1 EACH SPECIAL, MAILBOX SUPPORT SYSTEM, DOUBLE

DRAINAGE DISCHARGE CONTINUANCE

FURNISH A DRAINAGE DISCHARGE CONTINUANCE FOR ANY DRAINAGE DISCHARGE DISTURBED BY THE WORK AND NOT SHOWN IN THE PLANS. THE LOCATION, TYPE (CONDUIT ORSWALE), 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 ACCORDANCE WITH SCD 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 SWALEWHEN 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 SCD 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 _ FOR DRAINAGE DISCHARGE CONTINUANCE.

FURNISH A DRILLED HOLE OR A CURB SECTION WITH A HOLE 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 _ 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 _ FOR DRAINAGE DISCHARGE CONTINUANCE.

DOCUMENTATION

THE CONTRACTOR SHALL FURNISH 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 FORMAT). THE DOCUMENTATION IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE _ FOR DRAINAGE DISCHARGE CONTINUANCE OR ITEM 203, EMBANKMENT AS PER PLAN

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 QC 1 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 QC 1 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 QC 1 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 REQUIRED. THE COST IS INCLUDED IN ITEM 202, REMOVAL MISC. INSPECTION WELL.

THE FOLLOWING CONDUIT MATERIAL TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, AND 707.52 SDR35.

CONDUIT MATERIAL TYPES

EACH OF THE PAY ITEMS LISTED BELOW FOR CONDUIT MISCELLANEOUS TYPES B, 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 ITEMS.

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. 1 EACH INSPECTION WELL ITEM 611, 5 FT.CONDUIT, MISC TYPE B FOR DRAINAGE DISCHARGE CONTINUANCE

ITFM 611. 5 FT.CONDUIT, MISC TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE

ITEM 611, 5 FT.CONDUIT, MISC TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE

ITEM 611. 5 FT.CONDUIT, MISC TYPE F FOR DRAINAGE DISCHARGE CONTINUANCE

ITEM 202, 5 FT. REMOVAL MISC CONDUIT ITEM 202, 1 EACH REMOVAL MISC INSPECTION WELL

50 CUBIC YARD EMBANKMENT AS PER PLAN ITEM 203,

FARM DRAINS

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE (RIGHT OF WAY) (CONSTRUCTION) LIMITS BY ITEM 611 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES. SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 611 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 611, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER AND PAYMENT SHALL

EROSION CONTROL PADS SHALL BE PROVIDED AT THE OUTLET END OF ALL FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANY NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

611, 6" CONDUIT, TYPE B 20 FT.

(FOR PAVEMENT REPAIR). THE FOLLOWING ESTIMATEDQUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY: 304, AGGREGATE BASE (FOR PAVEMENT REPAIR) 38 CU YD

EXISTING SUBSURFACE DRAINAGE

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDER-DRAINS OR AGGREGATE DRAINS 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 INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE: 611, 6" CONDUIT, TYPE F 20 FT. 605, 6" UNCLASSIFIED PIPE UNDERDRAINS 20 FT.

ITEM 623 - MONUMENT BOX ADJUSTED TO GRADE. AS PER PLAN ITEM 638 - VALVE BOX ADJUSTED TO GRADE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 623.05 FOR MONUMENT BOXES, OR 638.18 FOR VALVE BOXES, THE CONTRACTOR WILL MAKE A CLEAN CIRCULAR CUT AROUND THE CASTING (A MINIMUM OF 1'-0" OUTSIDE OF THE CASTING) AND ADJUST THE CASTING TO GRADE (ACCORDING TO THE TOLERANCES AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1) AFTER THE PAVEMENT SURFACE COURSE HAS BEEN PLACED.

CMS 499 CLASS QCMS 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 LABOR AND MATERIALS REQUIRED TO COMPLETE THIS ITEM OF

623, MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN 1 EACH 638, VALVE BOX ADJUSTED TO GRADE, AS PER PLAN 5 FACH

ITEM 638 - VALVE BOX ADJUSTED TO GRADE

THIS ITEM OF WORK IS PROVIDED TO ADJUST VALVE BOXES OUTSIDE OF PAVEMENT AREAS. 638, VALVE BOX ADJUSTED TO GRADE 10 EACH

ITEM 611 - CATCH BASIN ADJUSTED TO GRADE

THIS ITEM OF WORK IS PROVIDED TO ADJUST CATCH BASINS TO GRADE THAT ARE OUTSIDE OF PAVEMENT AREAS. 611, CATCH BASIN ADJUSTED TO GRADE 2 EACH

MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED ALL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED

WITHIN THE RIGHT OF WAY FOR SALVAGE BY STATE FORCES.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

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) 38 CU YD

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ITEM SPECIAL - REINFORCEMENT MESH FOR LONGITUDINAL JOINTS DESCRIPTION:

THIS WORK CONSISTS OF PLACEMENT OF A SELF ADHESIVE GLASS FIBER MESH OVER JOINTS DESIGNATED IN THE PLAN AND/OR BY THE ENGINEER PRIOR TO PLACEMENT OF ASPHALT CONCRETE.

MATERIAL:

WHERE REINFORCEMENT IS PLACED BETWEEN SURFACE AND INTERMEDIATED COURSES, FURNISH GLASGRID FIBERGLASS REINFORCEMENT WITH MODIFIED POLYMER COATING AND PRESSURE-SENSITIVE ADHESIVE BACKING MEETING THE FOLLOWING PROPERTIES:

PROPERTIES	GlasGrid 8502
Material Width	5 ft.
Material – Self Adhesive fiberglass strand coated with elastomeric polymer ASTM D6637	25% minimum dry pickup
Tensile Strength ASTM D6637	655 x 1230 ± 85 lbs/in
Tensile Elongation ASTM D6637	2.5 ± 0.5%
Melting Point ASTM D276	>450°F
Mass/Unit Area ASTM D5261	18 oz/sq yd
Grid pattern	0.5 in x 0.5 in

WHERE REINFORCEMENT IS PLACED BETWEEN SURFACE COURSE AND A PLANED SURFACE, FURNISH GLASGRID FIBERGLASS REINFORCEMENT WITH MODIFIED POLYMER COATING AND PRESSURE-SENSITIVE ADHESIVE BACKING BONDED TO A NONWOVEN POLYPROPYLENE MEETING THE FOLLOWING PROPERTIES:

PROPERTIES	GlasGrid CG200
Material Width	5 ft.
Material - Self Adhesive fiberglass strand coated with elastomeric polymer ASTM D4595	25% minimum dry pickup
Tensile Strength ASTM D4595	655 x 1230 ± 85 lbs/in
Tensile Elongation ASTM D4595	2.5 ± 0.5%
Melting Point ASTM D276	>450°F
Mass/Unit Area ASTM D5261	22 oz/sq yd
Grid pattern	1.0 in x 0.75 in

BEFORE INSTALLATION SUBMIT A LETTER TO THE PROJECT ENGINEER WITH A STATEMENT CERTIFYING MATERIAL RECEIVED MEETS THE ABOVE PROPERTIES. SUBMIT TO THE PROJECT ENGINEER ACTUAL DATED (SALES FLYER DATA NOT ACCEPTABLE) TEST DATA WITH THE CERTIFICATION LETTER.

CONSTRUCTION:

PERFORM ALL REQUIRED REPAIRS PRIOR TO PLACING MESH.

ENSURE ALL AREAS WHERE MESH IS TO BE PLACED ARE FREE OF ALL DIRT AND OTHER LOOSE MATERIALS BY SWEEPING OR OTHER APPROVED METHOD. PLACE NON-TRACKING TACK COAT AT RATE SPECIFIED IN CMS AND WAIT 2 HOURS BEFORE PLACING THE MESH ON A PAVEMENT SURFACE THAT IS BETWEEN 40° F AND 140° F.

PLACE MESH UNDER TENSION TO PREVENT RIPPLING. REMOVE RIPPLES BY PULLING. OR IF NECESSARY (IN CURVES FOR EXAMPLE). BY CUTTING AND FLATTENING THE MESH. OVERLAP TRANSVERSE JOINTS OF THE MESH 3 TO 6 INCHES. OVERLAP LONGITUDINAL JOINTS OF THE MESH BY 1 INCH MINIMUM. ROLL THE MESH SURFACE 2 PASSES WITH A RUBBER COATED DRUM ROLLER, RUBBER TIRED ROLLER OR OTHER METHOD ACCEPTABLE TO THE MANUFACTURER. CLEAN RUBBER ROLLER IF BUILDUP ON THE RUBBER SURFACE INTERFERES WITH MESH PLACEMENT. DO NOT USE A STEEL DRUM ROLLER. PLACED MESH WILL HANDLE SPEED CONTROLLED EMERGENCY OR CONSTRUCTION TRAFFIC BUT DAMAGED SECTIONS

MUST BE REMOVED AND/ OR REPAIRED, AT THE CONTRACTOR'S EXPENSE. DO NOT ALLOW MUD OR OTHER MATERIAL TO COLLECT ON THE MESH PRIOR TO ASPHALT CONCRETE PLACEMENT. COVER MESH WITH ASPHALT CONCRETE THE SAME DAY UNLESS WEATHER BECOMES UNSUITABLE.

MEASUREMENT:

MEASURE MESH PLACEMENT BY THE LINEAL FEET OF JOINT COVERED. DO NOT ALLOW FOR MESH OVERLAP.

PAYMENT:

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES, COMPLETED IN PLACE, AT THE CONTRACT PRICES, AS DESCRIBED ABOVE, AS FOLLOWS:

ITEM UNIT DESCRIPTION

SPECIAL FT. REINFORCEMENT MESH FOR LONGITUDINAL JOINTS

ITEM 204, EXCAVATION OF SUBGRADE

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

204, EXCAVATION OF SUBGRADE 757 CU. YD.

ITEM 204 - GEOTEXTILE FABRIC, AS PER PLAN

GEOTEXTILE FABRIC, AS PER PLAN SHALL BE MIRAFI H2Ri FROM TENCATE GEOSYNTHETICS OR AN APPROVED EQUAL. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

204, GEOTEXTILE FABRIC, AS PER PLAN 2162 SQ. YD.

ITEM 304 - AGGREGATE BASE, AS PER PLAN

PLACEMENT OF 18" AGGREGATE BASE SHALL BE COMPLETED WITHIN 72 HOURS AFTER INSTALLATION OF PLAN SPECIFIED GEOTEXTILE FABRIC, AS PER PLAN. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY: 304, AGGREGATE BASE, AS PER PLAN 757 CU. YD.

ITEM SPECIAL - SURVEY CONTROL VERIFICATION

THE CONTRACTOR SHALL PERFORM THIS WORK TO VERIFY THE PROVIDED SURVEY CONTROL. THE CONTRACTOR WILL PERFORM THE VERIFICATION USING ONE OF THE TWO METHODS BELOW DEPENDENT UPON THE CONTRACTOR'S CHOSEN MEANS OF SURVEY CONTROL TO BE USED ON THE PROJECT. THE WORK SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF AN OHIO LICENSED SURVEYOR.

- 1. IF USING GPS DEVICES TO ESTABLISH AND OR PROVIDE SUPPLEMENTAL HORIZONTAL AND VERTICAL SURVEY CONTROL
- a. LOCATE VERTICAL CONTROL POINTS PROVIDED IN THE PLANS AND PERFORM A DIFFERENTIAL LEVEL CIRCUIT.
- b. PERFORM A SITE CALIBRATION UTILIZING THE AVAILABLE HORIZONTAL AND VERTICAL CONTROL POINTS PROVIDED
- c. PROVIDE A REPORT, SIGNED BY AN OHIO LICENSESD SURVEYOR, TO THE PROJECT ENGINEER COMPARING THE OBSERVED DATA TO THE PLAN DATA ALONG WITH A NARRATIVE DETAILING ANY DISCREPANCIES FOUND.
- 2. IF USING CONVENTIONAL SURVEY INSTRUMENTATION TO ESTABLISH AND OR PROVIDE SUPPLEMENTAL HORIZONTAL AND VERTICAL SURVEY CONTROL
- a. LOCATE VERTICAL CONTROL POINTS PROVIDED IN THE PLANS AND PERFORM A DIFFERENTIAL LEVEL CIRCUIT.
- b. LOCATE AND OBSERVE ANGLE AND DISTANCE TO ALL AVAILABLE HORIZONTAL CONTROL POINTS PROVIDE IN
- c. PROVIDE A REPORT, SIGNED BY AN OHIO LICENSED SURVEYOR, TO THE PROJECT ENGINEER COMPARING THE OBSERVED DATA TO THE PLAN DATA ALONG WITH A NARRATIVE DETAILING ANY DISCREPANCIES FOUND.

ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID ITEM.

PAVEMENT RESTORATION FOR PIPE INSTALLATIONS AND/OR REMOVALS

QUANTITIES HAVE BEEN PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION AND/OR REMOVAL OF PIPES.

QUANTITIES ARE BASED ON A PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

RESURFACING AFTER PIPE INSTALLATION

QUANTITIES HAVE BEEN PROVIDED TO RESURFACE THE ROADWAY AFTER THE COMPLETION OF THE CULVERT OR STRUCTURE PLACEMENT AT THESE LOCATIONS (SR 45 STA. 1020+79) AND (SR 45 STA. 1024+02). THIS WORK DOES NOT HAVE TO BE COMPLETE DURING CULVERT INSTALLATION.

THE QUANTITIES ARE BASED ON A RESURFACING WIDTH OF THE PAVEMENT AND SHOULDERS AND A LENGTH OF 50' ON EACH SIDE OF THE REQUIRED TRENCH WIDTH FOR INSTALLATION AND/OR REMOVAL.

PAVEMENT MARKINGS

ALL PAVEMENT MARKINGS THAT ARE REMOVED DURING THE CULVERT PLACEMENTS AT THESE LOCATIONS (SR 45 STA. 1020+79) AND (SR 45 STA. 1024+02). WILL BE REPLACED WITH ITEM 642 - TRAFFIC PAINT. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

621, RPM	4 EA
642, EDGE LINE, 6", TYPE 1	0.09 MI
642, CENTER LINE, TYPE 1	0.05 MI

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	652 CU. YD.
659, SEEDING AND MULCHING	5877 SQ. YD.
659, REPAIR SEEDING AND MULCHING	294 SQ. YD.
659, COMMERCIAL FERTILIZER	0.79 TON
659, LIME	1.21 ACRES
659, WATER	32 M. GAL.

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.

ITEM 202 - REMOVALS

ROCK

MISCELLANEOUS ITEMS, ITEMIZED AS RIGHT OF WAY ENCROACHMENTS, SHALL BE REMOVED AS PART OF THIS PROJECT. EACH OF THE FOLLOWING SHALL BE CARRIED AS A REMOVAL MISC. ITEM TO THE GENERAL SUMMARY.

8 EACH

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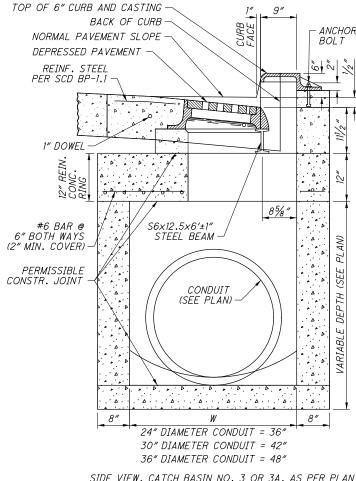
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ITEM 253 - PAVEMENT REPAIR

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER TO REPAIR SHOULDER. THIS ITEM SHALL CONSIST OF CUTTING AND REMOVING DETERIORATED PAVEMENT FULL DEPTH AND PLACING 12"± 301 ASPHALT CONCRETE BASE, PG64-22. THE MAXIMUM COMPACTED DEPTH OF ANY ONE LAYER SHALL BE 6 INCHES. 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 FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY: 225 SQ. YD.

253, PAVEMENT REPAIR 255. SAW CUT 1000 FT. ITEM 611 - CATCH BASIN, NO. 3 OR 3A, AS PER PLAN

CATCH BASIN NO. 3 OR 3A, AS PER PLAN SHALL BE CONSTRUCTED IN CONFORMANCE WITH ITEM 611 AND ACCORDING TO STANDARD CONSTRUCTION DRAWING CB-2.1. EXCEPT THAT SECTION B-B OF THE AFOREMENTIONED STANDARD DRAWING SHALL BE MODIFIED AS SHOWN AND THAT NO BRICK OR CONCRETE BLOCK CONSTRUCTION SHALL BE PERMITTED.



SIDE VIEW, CATCH BASIN NO. 3 OR 3A, AS PER PLAN

ITEM 408 - PRIME COAT, AS PER PLAN

APPLY "MC-70" AT A RATE OF 0.4 GALLONS PER SQUARE YARD, OR AS DETERMINED BY THE ENGINEER, TO THE COMPLETED COMPACTED AGGREGATE SHOULDER.

ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN

IN LOW SHOULDER AREAS EXCEEDING 1", AND ADJACENT TO THE SAFETY EDGE, OR AS DIRECTED BY THE ENGINEER, RECYCLED ASPHALT PAVEMENT (RAP) SHALL BE USED IN AREAS ADJACENT TO THE PAVED BERM. THE RAP SHALL HAVE A MINIMUM PG CONTENT OF 4.5% AND MEET THE FOLLOWING GRADATION. ONCE THE STOCKPILE MEETS THE GRADATION, THE PG CONTENT OF THE RAP SHALL BE DETERMINED PER 441.03. THE RAP ANALYSIS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL 2 WEEKS PRIOR TO USE. METHOD OF MEASUREMENT SHALL BE AS PER 617.06. PLACEMENT AND COMPACTION SHALL MEET THE REQUIREMENTS OF ITEM 617. ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 617 COMPACTED AGGREGATE, AS PER PLAN.

MODIFIED GRADATION SHALL APPLY: TOTAL PERCENT PASSING SIEVE

1-1/2" 100 50-100 NO. 4 35-70 NO. 30 9-33 NO. 200 0-13

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			4	5	6	13	14	15	16	24-37	40	01/SAF/P V	TILM	EXT	TOTAL	ONIT	DESCRIPTION	NO.
																	ROADWAY	
									1 001		500	LS	201	11000	LS		CLEARING AND GRUBBING	
								200	1,001		533	1,533	202	23000	1,534		PAVEMENT REMOVED	
								20 1,453				20 1,453	202 202	32000 35100	20 1,453		CURB REMOVED PIPE REMOVED, 24" AND UNDER	
					1			28				28	202	35200	28		PIPE REMOVED, OVER 24"	
													202	00200		• '	THE NEMOVES, OVER 21	
1								1				1	202	58000	1	EACH	MANHOLE REMOVED	
								8				8	202	58100	8		CATCH BASIN REMOVED	
								409				409	SPECIAL	20270000	409		FILL AND PLUG EXISTING CONDUIT, 12"	3
			1									1	202	98100	1		REMOVAL MISC.: INSPECTION WELL	4
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-			\sim	~~					\	720		740	202	10000	740		KEMOVAL MISC CONDUIT	
		(38			 	\ \ \ \ \ \	 	, , ,	1-01	, , ,	38	203	10000	38	CY	EXCAVATION (FOR PAVEMENT REPAIR)	
		1	人人	ر ر ر	人人	L L L	人人		人人	ل 186 🗴	人人	\ 9\\5\\	203	20000	1915		EMBANKMENT	
			50									50	203	20001	50		EMBANKMENT, AS PER PLAN	4
									2,589		378	2,967	204	10000	2,967		SUBGRADE COMPACTION	
				757								757	204	13000	757		EXCAVATION OF SUBGRADE (12" UNDERCUT)	
_				0.400					2		1	2	204	45000	3		PROOF ROLLING	
				2,162								2,162	204	50001	2,162	SY	GEOTEXTILE FABRIC, AS PER PLAN	5
			1									1	623	39501	1	EACH	MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN	4
			4									4	SPECIAL	69050100	4		MAILBOX SUPPORT SYSTEM, SINGLE	4
			1									1	SPECIAL	69050200	1		MAILBOX SUPPORT SYSTEM, DOUBLE	4
									2,173			2,173	SPECIAL	69098100	2,173	FT	REINFORCEMENT MESH FOR LONGITUDINAL JOINTS	5
				LS								LS	SPECIAL	69098400	LS		SURVEY CONTROL VERIFICATION	5
							8					8	601	32110	8	CY	EROSION CONTROL ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER	
			5				0					5	601	32200	5		ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER	
				2								2	659	00100	2		SOIL ANALYSIS TEST	
				652								652	659	00300	652		TOPSOIL	
				5,877								5,877	659	10000	5,877	SY	SEEDING AND MULCHING	
												004	0.50	11000	20.4	0)/	DED AND OFFERING AND AND AND ONLY	
				294 0.79								294 0.79	659 659	14000 20000	294 0.79		REPAIR SEEDING AND MULCHING COMMERCIAL FERTILIZER	
				1.21								1.21	659	31000	1.21	ACRE	LIME	
				32								32	659	35000	32		WATER	
				-								LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
												LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
												LS	832	15010	LS	EACH	STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE EROSION CONTROL	
												43,000	832	30000	43,000	EACH	EROSION CONTROL	
																	DRAINAGE	
							3					3	602	20000	3	CY	CONCRETE MASONRY	
			20			195						215	605	13300	215		6" UNCLASSIFIED PIPE UNDERDRAINS	
						2,026						2,026	605	14020	2,026		6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
							5					5	611	00406	5		4" CONDUIT, TYPE F	
	1					70						70	611	00510	70	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
												20	611	00900	20	FT	6" CONDUIT, TYPE B	
			20									20	611	01400	20		6" CONDUIT, TYPE E	
			20 20												40		6" CONDUIT, TYPE F	
			20 20 40									40	611	01500	- -		IO CONDOIT, TIFE F	
			20				217					40 217	611 611	01500 04400	217		12" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED	
			20		200		217 274									FT		
			20		200		274					217 474	611 611	04400 04600	217 474	FT FT	12" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED 12" CONDUIT, TYPE C	
			20				274 105					217 474 105	611 611 611	04400 04600 05900	217 474 105	FT FT	12" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED 12" CONDUIT, TYPE C 15" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED	
			20		200		274 105 44					217 474 105 49	611 611 611 611	04400 04600 05900 06100	217 474 105 49	FT FT FT	12" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED 12" CONDUIT, TYPE C 15" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED 15" CONDUIT, TYPE C	
			20				274 105					217 474 105 49 83	611 611 611	04400 04600 05900 06100 10400	217 474 105	FT FT FT FT	12" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED 12" CONDUIT, TYPE C 15" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED 15" CONDUIT, TYPE C 24" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED	
			20				274 105 44 83					217 474 105 49	611 611 611 611 611	04400 04600 05900 06100	217 474 105 49 83	FT FT FT FT FT	12" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED 12" CONDUIT, TYPE C 15" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED 15" CONDUIT, TYPE C	
			20				274 105 44 83 29					217 474 105 49 83 29	611 611 611 611 611 611	04400 04600 05900 06100 10400 10600	217 474 105 49 83 29	FT FT FT FT FT	12" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED 12" CONDUIT, TYPE C 15" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED 15" CONDUIT, TYPE C 24" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED 24" CONDUIT, TYPE C	
			20				274 105 44 83 29					217 474 105 49 83 29	611 611 611 611 611 611	04400 04600 05900 06100 10400 10600	217 474 105 49 83 29	FT FT FT FT FT	12" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED 12" CONDUIT, TYPE C 15" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED 15" CONDUIT, TYPE C 24" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED 24" CONDUIT, TYPE C	
			20				274 105 44 83 29					217 474 105 49 83 29	611 611 611 611 611 611	04400 04600 05900 06100 10400 10600	217 474 105 49 83 29	FT FT FT FT FT	12" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED 12" CONDUIT, TYPE C 15" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED 15" CONDUIT, TYPE C 24" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED 24" CONDUIT, TYPE C	

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				SI	HEET NU	JM.						PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET
				4	5	14	15	16	40	43	47	01/SAF/P V	11 = 141	EXT	TOTAL	UNIT	DESCRIPTION	NO.
																	DRAINAGE	
						444						444	611	13400	444	FT	30" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED	
						13						13	611	13600	13		30" CONDUIT, TYPE C	
						33						33	611	16400	33	F⊤	36" CONDUIT, TYPE B, 706.01, 707.33, (707.01 or 707.02) ALUMINIZED	
						953						953	611	16600	953		36" CONDUIT, TYPE C	
						122						122	611	21100	122	F⊤	48" CONDUIT, TYPE C	
				5								5	611	97400	5		CONDUIT, MISC.: TYPE B FOR DRAINAGE DISCHARGE CONTINUANCE	4
				5								5	611	97400	5	FT	CONDUIT, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE	4
				5								5	611	97400	5	FT	CONDUIT, MISC.: TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE	4
				5								5	611	97400	5	FT	CONDUIT, MISC.: TYPE F FOR DRAINAGE DISCHARGE CONTINUANCE	4
						3						3	611	98150	3	EACH	CATCH BASIN, NO. 3	
						2						2	611	98151	2	EACH	CATCH BASIN, NO. 3, AS PER PLAN	5
						2						2	611	98180	2	EACH	CATCH BASIN, NO. 3A	
						6						6	611	98181	6	EACH	CATCH BASIN, NO. 3A, AS PER PLAN	5
İ	 	İ		1	1	4		İ			1	4	611	98300	4		CATCH BASIN, NO. 5	
	 	İ		1	Ī	9		İ			1	9	611	98470	9		CATCH BASIN, NO. 2-2B	
	- 			1	Ī	Ī		1			1							1
					1	1						1	611	98510	1	EACH	CATCH BASIN, NO. 2-3	1
	 			2	Ī	1		1			1	2	611	98630	2		CATCH BASIN ADJUSTED TO GRADE	1
				1	1	9	1				1	9	611	99574	9		MANHOLE, NO. 3	1
				1								1	611	99720	1		INSPECTION WELL	
	 	İ		1	Ī	1		İ				1	895	10040	1		MANUFACTURED WATER QUALITY STRUCTURE, TYPE 4	
				1	1	1	1				1							1
				Y	177	Y	TYY	YYY	~~	YY	YY		YYY	YYY	YYY	YYY	YYYYYYYYPAVEMENT	
			<u> </u>	,	225							225	253	01000	225		PAVEMENT REPAIR ^	
			(4,369				4,369	254	01000	4,369		PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"	
			~	•	1,000		1	3,131	247			4,378	255	20000	4,378		FULL DEPTH PAVEMENT SAWING	
			<u> </u>		1,000		1	324	41			363	301	46000	365		ASPHALT CONCRETE BASE, PG64-22	
			(.	38	+	1	1	 °- '-				38	304	20000	38		AGGREGATE BASE (FOR PAVEMENT REPAIR)	
			Y	1,55	\ \ \		\ \ \ \	\ \ \ \ \	\ \ \ \	\ \ \		100	304	20000	\ \ \ \ \ \ \ \			
			`	\sim	757	$\overline{}$	\sim	365	\sim	\sim	\sim	1,122	304	20001	1,122	CY	AGGREGATE BASE, AS PER PLAN	5
				1	101	+	+	471	20			491	407	20001	491		NON-TRACKING TACK COAT	+ -
		-				1	1	213	20			213	408	10001	213		PRIME COAT, AS PER PLAN	5
		-			1	1	1	274				274	441	50101	274		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG70-22M	3
_		-+			+	1	1	1 1	12			13	441	50401	13		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS), AS PER PLAN, PG64-22	3
		-			1	1	1	<u> </u>	12			13	771	30401	15	0	ACTUAL CONCRETE SON ACE COUNCE, THE 1, (440), (BINVEWATS), AST ENTEAN, 1 GOT-22	+ -
				1	1	1	1		47			47	452	12050	47	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS	
		_		1	+	1	2,265		7/			2,265	609	12000	2,265		COMBINATION CURB AND GUTTER, TYPE 2	
-				1	+	1	2,203					2,203	609	26000	20		CURB, TYPE 6	
_		-		-	+	 	1 20	30		-		30	617	10101	30		COMPACTED AGGREGATE, AS PER PLAN	5
				1		+	1	30				30	017	10101	30	CI	COMPACTED AGGREGATE, AS FEN FLAN	3
		-+		-	 	+	+	<u> </u>									WATER WORK	+
				10		<u> </u>	<u> </u>	1				10	620	10000	10	EACH		
-				10	+	+	1	-			-	10	638 638	10800 10801	10		VALVE BOX ADJUSTED TO GRADE VALVE BOX ADJUSTED TO GRADE, AS PER PLAN	1
-	-+			5	1	1	+	-		-	 	5	りひび	IU8UT	5	EACH	VALVE DUA AUJUSTED TO GRADE, AS PER PLAIN	4
-				1	+	1	1	 		-	 						TRAFFIC CONTROL	1
_				1	1 ,	1	-	 		70	-	22	621	00100	76	EACH	TRAFFIC CONTROL RPM	+
-+	$\overline{}$			1	4	+	+	-		72	-	33 36		00100	76 36			+
				1	1	1	1	-		36	-	36	621	54000	36		RAISED PAVEMENT MARKER REMOVED	1
$ \vdash$	-+			-	1	-	-	ļ		110		110	630	03100	110		GROUND MOUNTED SUPPORT, NO. 3 POST	+
	-			-	1	-	-	 		35		35	630	80100	35		SIGN, FLAT SHEET	+
	$-\!$			1	1	1	1	 		4		4	630	85100	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	1
				1	1	1				<u> </u>		<u> </u>	222	0005		E + 6	DEMOVAL OF OBOTHIS HOUNTED DOCT OF BROAD AND BIODOCC.	1
$-\!$	-				1	1		ļ		4		4	630	86002	4		REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
	-			1	0.09	1	1	ļ			ļ	0.09	642	00104	0.09		EDGE LINE, 6", TYPE 1	1
_					0.05	1		 				0.05	642	00300	0.05		CENTER LINE, TYPE 1	1
				1	1	1		ļ		0.24	ļ	0.24	646	10010	0.24		EDGE LINE, 6"	1
-				1	1	1		ļ		0.65		0.65	646	10200	0.65	MILE	CENTER LINE	4
				1	1	1		<u> </u>										1
					1					396		396	646	10310	396		CHANNELIZING LINE, 12"	
										97		97	646	10400	97		STOP LINE	
										11		11	646	20300	11	EACH	LANE ARROW	
																	TRAFFIC SIGNALS	
											5	5	625	31510	5	EACH	PULL BOX REMOVED	
					1	1	1	1			8	8	632	05006	8	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK	1
											8	8	632	25000	8	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
					<u> </u>						8 132	8 132	632 632	25000 30200	8 132		COVERING OF VEHICULAR SIGNAL HEAD MESSENGER WIRE, 7 STRAND, 3/8" DIAMETER WITH ACCESSORIES	
												8 132 132				FT		

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