PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AT US 301 AND POINTER RIDGE DRIVE AND PROVIDING INTERCONNECT TO MITCHELLVILLE ROAD/QUEEN ANNE BRIDGE ROAD.

LOOP DETECTION WILL BE PROVIDED AND/OR REPLACED AT BOTH INTERSECTIONS OF POINTER RIDGE AND MICHELLVILLE RD.

II. INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE US 301 APPROACHES RUNNING CONCURRENTLY.

III. SPECIAL NOTES

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL CONTACT MR. ROBERT SNYDER OF SHA AT 410-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. ROBERT SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

EQUIPMENT LISTS

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

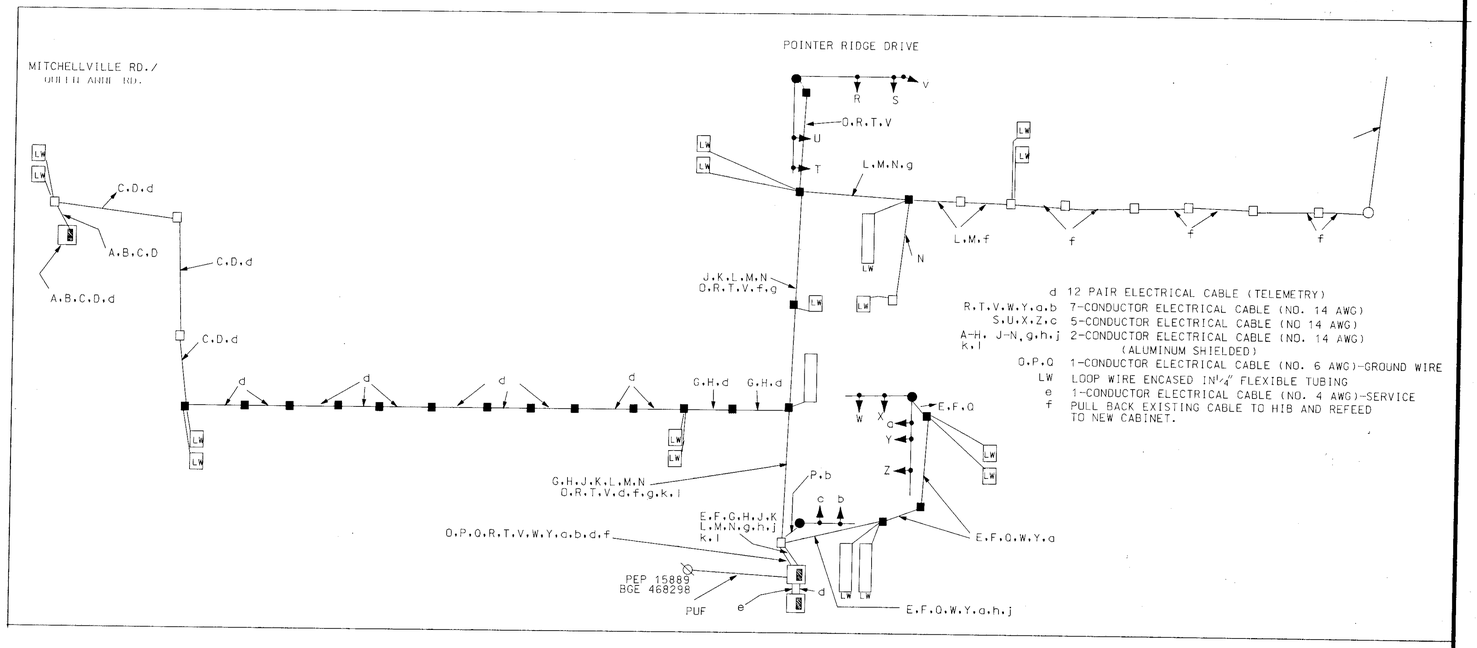
ITEM NO.	QUANTITY	DESCRIPTION
9000	12 EACH	12" ONE-WAY, THREE-SECTION SIGNAL HEAD (MAST ARM MOUNTED)
9000	1 EACH	CABINET W/TELEMETRY (SYSTEM CABINET)
9000	1 EACH	CABINET MASTER WITH TELEMETRY AND CONTROLLER
9000	1 EACH	CONTROLLER ASC IIW/TELEMETRY
9000	120 S.F.	SIGNS- POLE MOUNTED (OVERHEAD)
		FLAT SHEET ALUMINUM (SIGN BLUE OR GREEN) (20 SF)
		2 EACH D3-2 SIGN, 16" X VARIABLE, "POINTER RIDGE DR."
		FLAT SHEET ALUMINUM (SIGN YELLOW,ORANGE,SILVER) (100 SF)
		2 EACH R3-2 SIGN, "NO LEFT TURN (SYMBOL), 30" X 30"
		2 EACH R3-1 SIGN, "NO RIGHT TURN (SYMBOL), 30" X 30"
		1 EACH ASSOCIATED SHIELD ASSEMBLY - "SOUTH, US 301, LEFT ARROW - 48" X 75"
		1 EACH ASSOCIATED SHIELD ASSEMBLY - "NORTH, US 301, LEFT ARROW - 48" X 75"
		1 EACH ASSOCIATED SHIELD ASSEMBLY - "SOUTH, US 301, RIGHT ARROW - 48" X 75"
9000	3 EACH	DETECTOR AMPLIFIER 4-CHANNEL RACK MOUNT
9000	1 EACH	DETECTOR RACK POWER SUPPLY

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 U.D.	MAINTENANCE OF TRAFFIC
2001	1 C.Y.	TEST PIT EXCAVATION
5004	160 L.F.	F/I 24" WHITE PERMANENT PREFORMED PAVEMENT MARKING FOR STOPLINE
5006	160 L.F.	REMOVE EXISTING PAVEMENT MARKING (ANY WIDTH)
5007	1 EACH	REMOVE EXISTING PAVEMENT MARKING LETTER OR ARROW
8001	1 EACH	F/I MAST ARM POLE AND 50' MAST ARM (CUT TO 40')
8003	2 EACH	F/I MAST ARM POLE AND TWIN (60'/50') CUT TO 52' AND 50'
8004	13 C.Y.	F/I CONCRETE FOR SIGNAL FOUNDATION
8005	3 EACH	CUT, CLEAN, GALVANIZED AND CAP MAST ARMS
8007	12 EACH	INSTALLATION OF SIGNAL HEADS
8008	1 EACH	INSTALL LOCAL CONTROLLER AND CABINET
8009	1 EACH	INSTALL TRAFFIC RESPONSIVE MASTER CONTROLLER AND CABINET - BASE MOUNT
8011	1200 L.F.	F/I SAWCUT FOR SIGNAL LOOP DETECTOR
8012	310 L.F.	F/I 1"ELECTRICAL CONDUIT - GALVANIZED SLEEVE
8013	80 L.F.	F/I 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8014	3400 L.F.	F/I 2" PVC ELECTRICAL CONDUIT (SCHEDULE 80) - TRENCHED
8016	40 L.F.	F/I 3" PVC ELECTRICAL CONDUIT (SCHEDULE 80) - TRENCHED
8017	430 L.F.	F/I 3" PVC ELECTRICAL CONDUIT (SCHEDULE 80) - PUSHED
8018	100 L.F.	F/I 3" PVC ELECTRICAL CONDUIT (SCHEDULE 80) - SLOTTED
8019	30 L.F.	F/I 4" PVC ELECTRICAL CONDUIT (SCHEDULE 80) - TRENCHED
8021	21 EACH	F/I HANDHOLE
8022	5 EACH	F/I GROUND ROD
8023	2930 L.F.	F/I 12-PAIR COMMUNICATION CABLE SELF-SUPPORTING (UNDERGROUND)
8024	4120 L.F.	F/I LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8025	4750 L.F.	F/I ELECTRICAL CABLE - 2-CONDUCTOR (ALUMINUM SHIELDED) NO. 14 AWG

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
8027	1560 L.F.	F/I ELECTRICAL CABLE - 5-CONDUCTOR (NO. 14 AWG)
8028	4600 L.F.	F/I ELECTRICAL CABLE - 7-CONDUCTOR (NO. 14 AWG)
8031	620 L.F.	F/I NO. 6 AWG STRANDED BARE COPPER, GROUND WIRE
8032	120 S.F.	F/I INSTALLATION OF OVERHEAD SIGN
8030	90 L.F.	F/I ELECTRICAL CABLE, 1-CONDUCTOR (NO. 4 AWG)
8033	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
8034	90 L.F	F/I 1 1/4" ELECTRICAL CONDUIT - PVC RISER (PHONE DROP)
8035	1 EACH	F/I CONTROL AND DISTRIBUTION OF EQUIPMENT
8036	1 EACH	DELIVERY OF REMOVED EQUIPMENT
8037	1 EACH	REMOVAL OF EXISTING CONTROLLER, CABINET AND GALVANIZED SIGNAL STRUCTURE
8041	8 EACH	REMOVE AND DISPOSE OF EXISTING FOUNDATION 12" BELOW GRADE



NOTE: EXISTING PHASING TO BE UTILIZED.

REVISIONS	APPROVALS	
	ORIGINAL	MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
	ASST. TRAFFIC ENGINEERING DESIGN DIVISION NOTED	*Office of Traffic & Safety*
	ASST. DISTRICT ENGINEER, TRAFFIC ON	TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION FILE	US 301 AND POINTER RIDGE ROAD
(B) TOTAL RECONSTRUCT AND INSTALL TELEMETRY 12/98	DIRECTOR, TRAFFIC & SAFETY	(GENERAL INFORMATION SHEET)

DRAWN BY:	F.A.P. NO.	TS NO. 645 B	SHEET NO.
CHECKED BY: Bruce Thompson	S.H.A. NO. AW526A5A1B5A	T.I.M.S. NO. C-803	2 OF 9
SCALE: 1" = 20'	COUNTY: PRINCE GEORGE'S		
DATE: 9-13-72	LOG MILE:		

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