

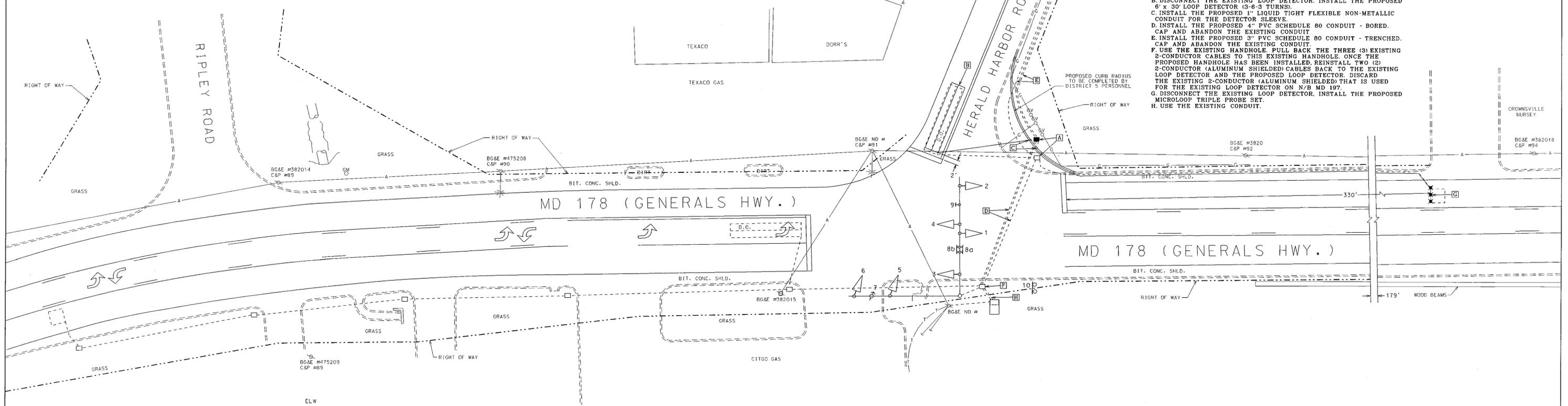
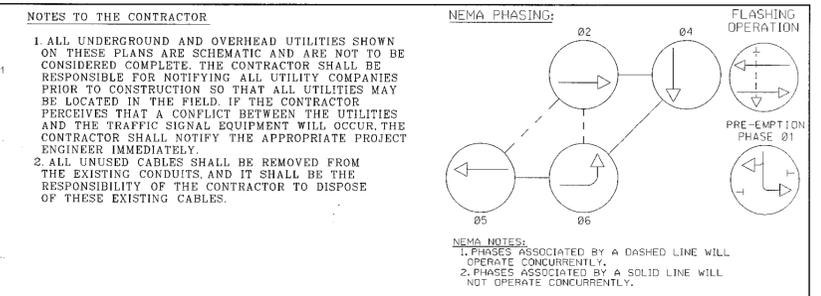
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2001	1 C.Y.	TEST PIT EXCAVATION
8001	1 EACH	F & I MICROLOOP TRIPLE PROBE SET W/ 500' LEAD-IN
8002	510 L.F.	F & I SAWCUT FOR SIGNAL (LOOP DETECTOR)
8004	10 L.F.	F & I 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8005	75 L.F.	F & I 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8006	70 L.F.	F & I 4" SCHEDULE 80 RIGID PVC CONDUIT - BORED
8007	1 EACH	F & I ELECTRICAL HANDHOLE
8008	490 L.F.	F & I LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8009	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
8010	1 S	PULL BACK THE EXISTING 2-CONDUCTOR (ALUMINUM SHIELDED) CABLE TO A HANDHOLE, AND INSTALL IN THE PROPOSED CONDUIT

C. EQUIPMENT TO BE REMOVED AND RETURNED TO THE SHA

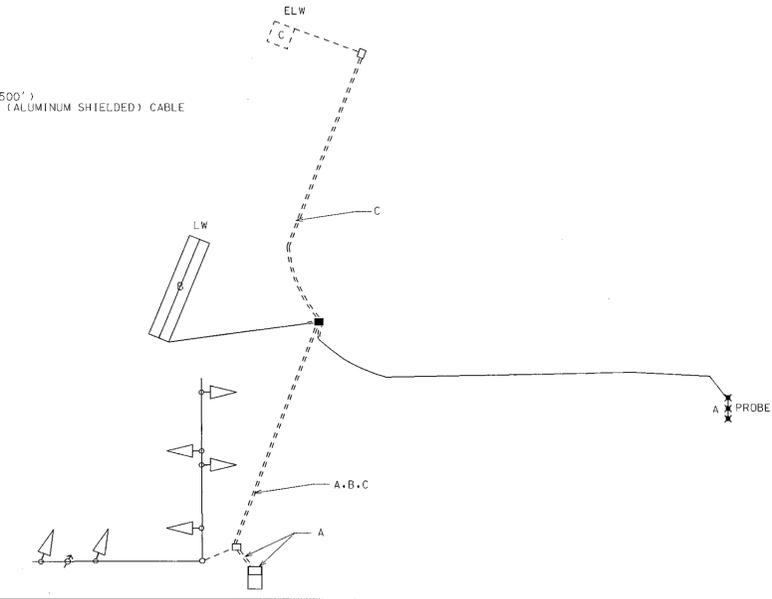
ITEM NO. QUANTITY DESCRIPTION

ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.



WIRING DIAGRAM

A = MICROLOOP TRIPLE PROBE SET (500')
 B-C = USE THE EXISTING 2-CONDUCTOR (ALUMINUM SHIELDED) CABLE
 LW = LOOP WIRE
 ELW = EXISTING LOOP WIRE
 PROBE = MICROLOOP TRIPLE PROBE SET



UTILITY LEGEND

— G —	GAS MAIN
— W —	WATER MAIN
— S —	SEWER MAIN
— E —	ELECTRIC CABLES
— T —	AERIAL CABLES
— D —	TELEPHONE CABLES
— D —	STORM DRAIN

CONSTRUCTION DETAILS

- INSTALL THE PROPOSED HANDHOLE. REMOVE THE EXISTING HANDHOLE. DISCONNECT THE EXISTING LOOP DETECTOR. INSTALL THE PROPOSED 6' x 30" LOOP DETECTOR (3-6-3 TURNS).
- INSTALL THE PROPOSED 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR THE DETECTOR SLEEVE.
- INSTALL THE PROPOSED 4" PVC SCHEDULE 80 CONDUIT - BORED.
- CAP AND ABANDON THE EXISTING CONDUIT.
- INSTALL THE PROPOSED 3" PVC SCHEDULE 80 CONDUIT - TRENCHED. CAP AND ABANDON THE EXISTING CONDUIT.
- USE THE EXISTING HANDHOLE. PULL BACK THE THREE (3) EXISTING 2-CONDUCTOR CABLES TO THIS EXISTING HANDHOLE. ONCE THE PROPOSED HANDHOLE HAS BEEN INSTALLED, REINSTALL TWO (2) 2-CONDUCTOR (ALUMINUM SHIELDED) CABLES BACK TO THE EXISTING LOOP DETECTOR AND THE PROPOSED LOOP DETECTOR. DISCARD THE EXISTING 2-CONDUCTOR (ALUMINUM SHIELDED) THAT IS USED FOR THE EXISTING LOOP DETECTOR ON N/2 MD 197.
- DISCONNECT THE EXISTING LOOP DETECTOR. INSTALL THE PROPOSED MICROLOOP TRIPLE PROBE SET.
- USE THE EXISTING CONDUIT.

PHASE CHART

THERE IS NO CHANGE IN THE PHASE CHART

PROJECT CONTACTS

THE PROJECT CONTACTS ARE AS FOLLOWS:

MR. KIMBERLY TRAN ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (410) 841-1003	MR. RICHARD DAFF CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630
MR. CHUCK GEORGE ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (410) 841-1013	MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7631
MR. JOHN MAYS ASSISTANT DISTRICT ENGINEER - UTILITIES PHONE: (410) 841-1039	MR. EDWARD RODENHIZER CHIEF, SIGNAL OPERATIONS SECTION PHONE: (410) 787-7652

<p>REVISIONS</p> <p>B. 08/2003 - NEW CURB RADIUS TO BE INSTALLED IN S/E CORNER BY DISTRICT 5 - REPLACED HANDHOLE & CONDUITS SHA NO. AT 249 R 29</p> <p>C. REPLACED CONTROLLER & CABINET & ADD PHONE DROP</p> <p>SHA NO. 11.4.2.1.1</p>	<p>APPROVALS</p> <p>TRAF. ENGR. DESIGN DIVISION</p> <p>TRAF. ENGR. DESIGN DIVISION</p> <p>TRAF. ENGR. DESIGN DIVISION</p> <p>TRAF. ENGR. DESIGN DIVISION</p>	<p>MARYLAND DOT - STATE HIGHWAY ADMINISTRATION</p> <p>Office of Traffic & Safety</p> <p>TRAFFIC ENGINEERING DESIGN DIVISION</p> <p>MD 178 (Generals Highway) and Herald Harbor Road CROWNSVILLE, MARYLAND</p> <p>DRAWN BY: D. Distance</p> <p>CHECKED BY: S.H.A. NO.</p> <p>SCALE: 1" = 20'</p> <p>DATE: 08/20/03</p>	<p>T.S. NO. TS-2214_B</p> <p>SHEET NO. 1 OF 1</p>
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