

DRILL HOLES

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting at the intersection of MD 980D/Ritchie-Marlboro Rd and Old Marlboro Pike in Prince George's County. New LED signal heads shall be installed for the southbound Ritchie-Marlboro Rd approach as a result of the widening of the north leg of Ritchie-Marlboro Road. Video detection shall be installed for the Old Marlboro Pike approaches. MD 980D/Ritchie-Marlboro Rd is assumed to run a north-south direction.

II. INTERSECTION OPERATION

- The intersection shall operate in a NEMA five-phase, fully-actuated mode, with the MD 980D/Ritchie-Marlboro Rd approaches continuing to run concurrently. The Exclusive/Permissive left turn phase for the westbound approach of Old Marlboro Pike shall remain in operation. The Old Marlboro Pike approaches shall continue to run concurrently.
- The existing full-traffic-actuated, eight-phase controller with two (2) - four channel, rack mount loop detector amplifiers, housed in a NEMA size "5" pole-mounted cabinet shall be utilized at this intersection. Video interface shall be installed into the cabinet by the SHA.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

The contact persons for District #3 (Prince George's County) are as follows:

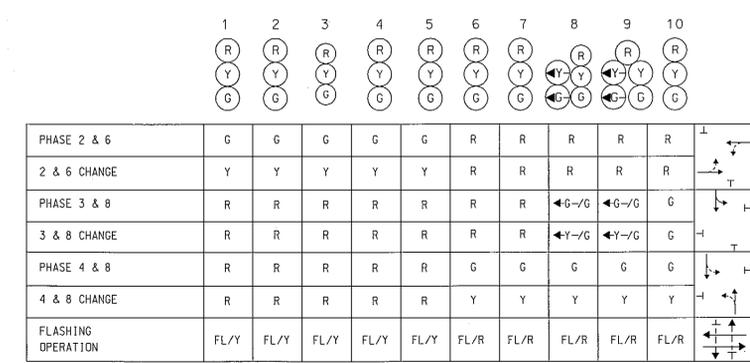
- | | |
|---|---|
| Mr. Brian Young
Assistant District Engineer - Traffic
Phone: (301) 513-7358 | Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630 |
| Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
Phone: (301) 513-7304 | Mr. Ed Rodenhizer
Signal Shop
410-787-7652 |
| Mr. Augie Rebish
Assistant District Engineer - Utility
Phone: (301) 513-7350 | Sonny Bailey
Sign Shop
410-787-7670 |

EQUIPMENT LIST (CONT.)

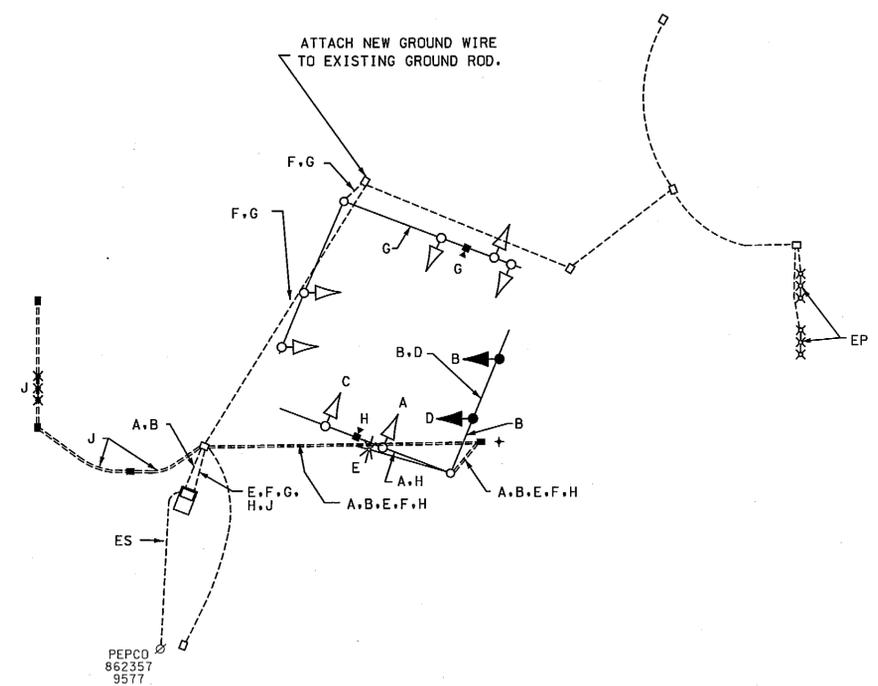
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

SPEC. NUMBER	DESCRIPTION	QUANTITY
	Remove and dispose of existing signal equipment and material.	lump sum
	Remove existing pavement markings.	235 L.F.
	Relocate existing overhead sign.	1 EA
	5" white permanent preformed thermoplastic pavement marking.	2575 L.F.
	5" yellow permanent preformed thermoplastic pavement marking.	3225 L.F.
	10" white permanent preformed thermoplastic pavement marking.	215 L.F.
	10" yellow permanent preformed thermoplastic pavement marking.	85 L.F.
	24" white permanent preformed thermoplastic pavement marking.	95 L.F.
	Remove ground mounted signs.	2 EA

PHASING DIAGRAM



WIRING DIAGRAM



WIRING KEY

- A } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C - MAINTAIN EXISTING 5-CONDUCTOR ELECTRICAL CABLE
- D - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E - 2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G.)
- F - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- G } VIDEO DETECTOR CABLE (250')
- H } VIDEO DETECTOR CABLE (250')
- J - NON INVASIVE MICROLOOP LEAD-IN CABLE (500')
- ES - EXISTING UNDERGROUND SERVICE TO BE MAINTAINED BY PEPCO
- EP - EXISTING MICROPROBES
- + - GROUND ROD

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

THERE IS NO EQUIPMENT TO BE SUPPLIED BY THE SHA

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

SPEC. NUMBER	DESCRIPTION	QUANTITY
814	12", one-way, three-section (R,Y,G) LED traffic signal head with adjustable bracket for mast arm mounting and tunnel visors.	2 EA
	Terra Interface Panel (To be installed by signal shop).	1 EA
	Terra Access Port (to be installed by Signal Shop)	1 EA
206	Remove concrete sidewalk	150 S.F.
610	4" concrete sidewalk.	150 S.F.
805	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - trenched	285 L.F.
805	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - bored	50 L.F.
805	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - bored.	90 L.F.
811	Furnish and install electrical handhole.	4 EA
810	Furnish and install 5-conductor electrical cable (No. 14 A.W.G.).	25 L.F.
810	Furnish and install 7-conductor electrical cable (No. 14 A.W.G.).	350 L.F.
810	Furnish and install ground rod - 3/4" x 10'.	1 EA
810	Furnish and install No. 6 AWG stranded bare copper ground wire.	350 L.F.
810	Furnish and install tray cable - 2 conductor (No. 12 AWG)	165 L.F.
	Terra Video detector camera and 250' cable.	2 EA
	Non-invasive micro loop probe with 500' lead-in cable.	1 EA

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 980D/RITCHIE-MARLBORO RD. AND OLD MARLBORO PIKE

SCALE NONE	DATE 1/30/09	CONTRACT NO.
DESIGNED BY R ZACHERL	COUNTY PRINCE GEORGE'S	
DRAWN BY ROB CICCHINI	LOGMILE 16098000.00	
CHECKED BY	TMS NO. H906	
F.A.P. NO.	TOD NO.	
TS NO. 3726A	DRAWING NO. 2 OF 3	SHEET NO. OF

STS
STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy. NW
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

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