

The contact persons for District #5 are as follows:

Ms. Kim Tran
Assistant District Engineer - Traffic
Phone: (410) 841-1003

Mr. Charles George
Assistant District Engineer - Maintenance
Phone: (410) 841-1002

Mr. John Mays
Assistant District Engineer - Utility
Phone: (410) 841-1005

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Bob Snyder
Asst. Chief, Traffic Operations Division
Phone: (410) 787-7631

Mr. Ed Rodenhizer
Team Leader Signal Operations Division
Phone: (410) 787-7650

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a Hazard Identification Beacon for the eastbound approach of the intersection of MD 179 (St. Margarets Road) and Pleasant Plains Rd in Anne Arundel County. Due to the existing horizontal curve along eastbound MD 179, the sight distance from Pleasant Plains Rd is limited. The HIB shall warn eastbound MD 179 (St. Margarets Road) traffic of vehicles entering from Pleasant Plains Road. MD 179 (St. Margarets Road) is assumed to run in an east-west direction.

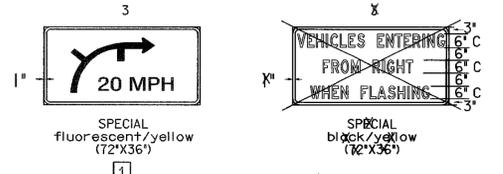
II. INTERSECTION OPERATION

1. A Hazard Identification Beacon shall be added on the west leg of MD 179 (St. Margarets Road) that shall always flash yellow, when vehicles trip the proposed loop detector on Pleasant Plains Road.
2. A full-traffic-actuated, eight-phase controller with one (1) four channel, rack mount loop detector amplifier, power supply and all necessary equipment housed in a NEMA size "5" pole-mounted cabinet shall be installed at this intersection.

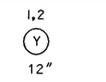
III. SPECIAL NOTES

1. The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
2. 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.

PROPOSED SIGN



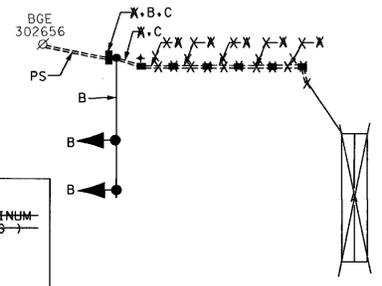
PROPOSED SIGNALS



PHASING

1	NORMAL OPERATION	FL/Y	FL/Y
2	WARNING OPERATION	FL/Y	FL/Y

WIRING DIAGRAM



WIRING KEY

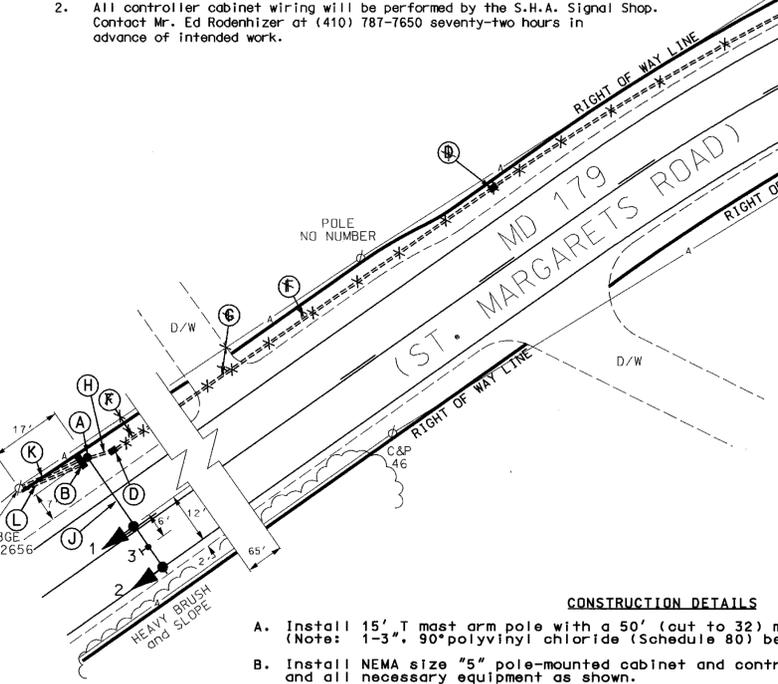
X - 2-CONDUCTOR ELECTRICAL ALUMINUM-SHEATHED CABLE (NO. 14 A.W.G.)

B - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

C - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

PS - PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY BGE

+ - GROUND ROD



EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

ITEM NO.	DESCRIPTION	QUANTITY
9042	Controller ASC II with IM module	1 EA
9043	Controller cabinet, size "5"	1 EA
9571	Sheet aluminum signs to consist of:	18 SF
1	SPEC "VEHICLES ENTERING FROM RIGHT WHEN FLASHING" (72"X36") black/yellow, fluorescent/yellow	1 EA

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

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
2002	Test Pit Excavation	1 C.Y.
8006	Cut, clean, galvanize and cap Traffic Signal structure	1 EA
8011	Furnish and install 12" vehicular traffic signal head section	2 EA
8020	Furnish and install electrical utility service equipment (120/240 V, 1 phase 3 wire system).	1 EA

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

ITEM NO.	DESCRIPTION	QUANTITY
8025	Furnish and install 15' T mast arm pole and 50" mast arm (cut to 38")	1 EA
8051	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - trenched	10 6X5 L.F.
8053	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - trenched.	50 L.F.
8057	Furnish and install concrete for signal foundation.	3 C.Y.
8060	Furnish and install No. 6 AWG stranded bare copper ground wire.	25 L.F.
8064	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - bored.	130 L.F.
8068	Furnish and install 1" liquid tight flexible non-metallic conduit for detector sleeve.	5 L.F.
8072	Furnish and install electrical handhole.	1 EA
8075	Install overhead sign.	18 S.F.
8080	Furnish and install ground rod - 3/4" x 10'.	1 EA
8081	Furnish and install electrical cable - 2-conductor aluminum-shielded (No. 14 AWG)	675 L.F.
8084	Furnish and install electrical cable - 5 conductor (No. 14 AWG).	70 L.F.
8087	Furnish and install loop wire encased in flexible tubing (No. 14 AWG).	505 L.F.
8088	Furnish and install saw cut for signal (loop detector).	165 L.F.
8091	Furnish and install 2" schedule 80 rigid polyvinyl chloride - trenched	25 L.F.
8092	Install controller and cabinet pole mount.	1 EA

GENERAL NOTES:

1. All underground 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.

- CONSTRUCTION DETAILS**
1. Install 15' T mast arm pole with a 50' (cut to 32) mast arm, traffic signal heads and sign as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
 2. Install NEMA size "5" pole-mounted cabinet and controller with electrical utility service equipment and all necessary equipment as shown.
 3. Install 6' x 30' loop detector encased in 1/4" flexible tubing quadrupole type (3-6-3).
 4. Install handhole.
 5. Install 1" liquid tight flexible non-metallic electrical conduit (detector wire sleeve) and loop wire (No. 14 AWG).
 6. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched) and 2 conductor aluminum shielded cable.
 7. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (bored) and 2 conductor aluminum shielded cable.
 8. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched), 2 conductor aluminum shielded cable and copper ground wire (No. 6 AWG)
 9. Install 5 conductor cable (No. 14 AWG) for traffic signal heads.
 10. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched) for electrical service by BGE. (Note: The contractor shall install a 4" conduit bend at the bottom of BGE pole 302656.)
 11. Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched) for phone drop.

GEOMETRIC LEGEND

PROPOSED - ---
EXISTING - - - -

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A	4
ELECTRIC	E	4
TELEPHONE	T	1
GAS	G	2
SEWER	S	2
WATER	W	1
CABLE TV	TV	1

REVISIONS

1	REDLINE REVISION	9/10/03
1	REDLINE REVISION	9/10/03 AS PER TOM HICKS REQUEST

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy, NW
Glen Burnie, MD 21061
Ph (410) 590-5500
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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 179 (ST. MARGARETS ROAD)
AND PLEASANT PLAINS ROAD
ST. MARGARETS, MARYLAND

DRAWN BY: D.A.NIES
CHECKED BY: RRZ
SCALE: 1" = 20'
DATE: 4-22-03

F.A.P. NO. XX1065485
S.H.A. NO. ANNE ARUNDEL
COUNTY: ANNE ARUNDEL
LOG MILE: 0217901.67

TS NO. 4250
T.I.M.S. NO. F589

SHEET NO. 1 OF 1