

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a Hazard Identification Beacon with street lighting to warn motorists of a pedestrian crossing near the intersection of MD 320 (Piney Branch Road) and Garland Avenue in Montgomery County. MD 320 (Piney Branch Road) is assumed to run an east-west direction.

II. INTERSECTION OPERATION

- The Hazard Identification Beacon shall operate continuously 24 hours a day, 7 days a week to warn drivers of the mid block pedestrian crossing across MD 320 (Piney Branch Road). The pedestrian crossing itself shall be unsignalized.
- A full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be installed at this location.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables to the appropriate terminals and shall properly label each cable.
- Contact Mr. Bob Gonzales at (240) 777-8761 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.

EQUIPMENT LIST (CONT.)

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

ITEM NO.	DESCRIPTION	QUANTITY
6003	Monolithic concrete median 4', type A-1.	45 L.F.
8001	Furnish and install concrete for signal foundation.	2 C.Y.
8018	Furnish and install breakaway pedestal pole (14').	1 EA
8018	Furnish and install breakaway pedestal pole (20').	1 EA
8027	Furnish and install wood sign supports 4" x 4".	65 L.F.
8029	Furnish and install No. 6 AWG stranded bare copper ground wire.	175 L.F.
8035	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - bored.	100 L.F.
8037	Furnish and install 2" schedule 80 rigid polyvinyl chloride - trenched.	20 L.F.
8038	Furnish and install 3" schedule 80 rigid polyvinyl chloride - trenched.	15 L.F.
8039	Furnish and install 4" schedule 80 rigid polyvinyl chloride - trenched.	60 L.F.
8044	Metered service pedestal with one 60 A breaker, one 30 A breaker and one 20 A breaker.	1 EA
8046	Furnish and install electrical cable 1-conductor No. 4 AWG	230 L.F.
8047	Furnish and install electrical cable 1-conductor No. 8 AWG THHN/THWN.	120 L.F.
8052	Furnish and install electrical handhole.	2 EA
8054	Install ground mounted sign.	27 S.F.
8055	Install overhead sign.	17 S.F.
8071	Furnish and install connector kit - Type 1.	2 EA
8072	Furnish and install connector kit - Type 2.	2 EA
8073	Furnish and install ground rod - 3/4" x 10'.	2 EA
8074	Furnish and install 8" vehicular traffic signal head section.	4 EA
8082	Furnish and install electrical cable - 3 conductor (No. 14 AWG).	230 L.F.
8085	Furnish and install tray cable - 2 conductor (No. 12 AWG).	90 L.F.
8094	Install controller and cabinet base mount.	1 EA
Neg.	Furnish and install 150 watt HPS Luminaire with photocell (with hardware).	1 EA
Neg.	Remove monolithic median section.	45 L.F.

PHASE CHART

THE SIGNALS SHALL FLASH CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK

EQUIPMENT LIST

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

ITEM NO.	DESCRIPTION	QUANTITY
9042	Controller ASC II with telemetry	1 EA
9044	Controller cabinet, size "6"	1 EA
9570	Sheet aluminum signs to consist of: (ground mount)	27 SF
	R4-7 "KEEP RIGHT (symbolic)" sign, (24" x 30") (B/W)	2 EA
	W11-2 "PEDESTRIAN CROSSING (SYMBOLIC)" sign, (30" x 30") (B/FY).	2 EA
	M6-2 "arrow (symbolic)" left diagonal sign, (15" x 21") (B/FY).	2 EA
9571	Sheet aluminum signs to consist of: (pole mount)	17 SF
	W11-2 "PEDESTRIAN CROSSING (SYMBOLIC)" sign, (30" x 30") (B/FY).	2 EA
	M6-2 "arrow (symbolic)" right diagonal sign, (15" x 21") (B/FY).	2 EA

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

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
2001	Class 2 Excavation.	4.5 C.Y.
2002	Test Pit Excavation	2 C.Y.
5001	Remove existing pavement markings - any width.	265 L.F.
5005	12" white heat applied permanent preformed thermoplastic pavement marking.	365 L.F.
5005	12" yellow heat applied permanent preformed thermoplastic pavement marking.	90 L.F.
5008	Heat applied permanent preformed thermoplastic pavement marking arrow. (left)	4 EA
5009	5" yellow heat applied permanent preformed thermoplastic pavement marking.	520 L.F.

C. EQUIPMENT TO BE REMOVED

There is no signal equipment to be removed for this project.

The contact persons for District #3 (Montgomery County) are as follows:

Mr. Lee Starkloff
Assistant District Engineer - Traffic
Phone: (301) 513-7318

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
Phone: (301) 513-7304

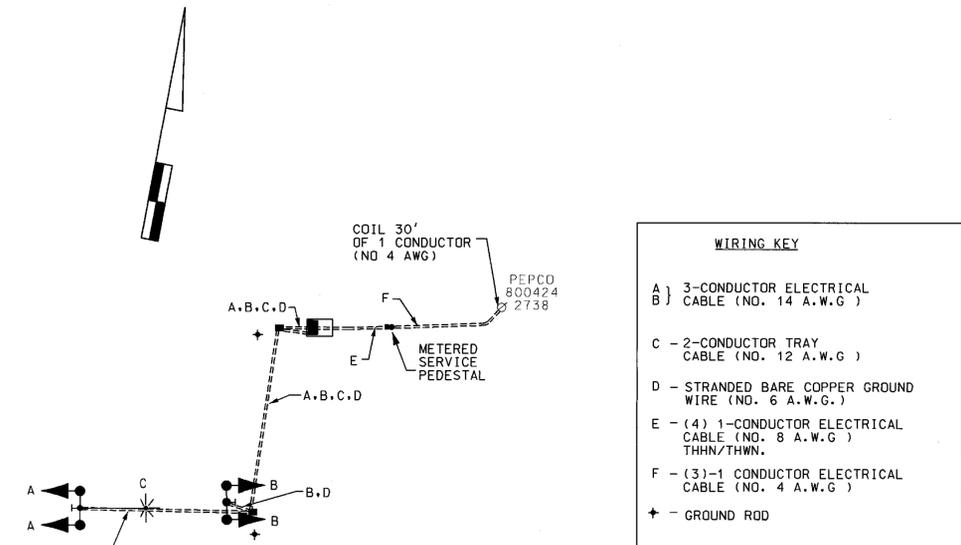
Mr. Augie Rebish
District Engineer - Utility
Phone: (301) 513-7350

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

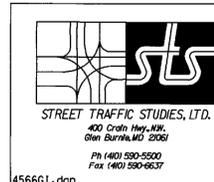
The power company representative is:

Mr. Steve Custer
PEPCO Customer Design
201 W Guide Dr.,
Rockville, MD 20850
Phone: 301 548-4333

WIRING DIAGRAM



SHA#: MD2004AS10006 TOD#: AT351-233
MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
 MD 320 (PINEY BRANCH RD) AND GARLAND AVE



DRAWN BY: ROB CICCHINI	F.A.P. NO. AT3575185	TS NO. 4315	SHEET NO. 2 OF 2
CHECKED BY: R ZACHERL	S.H.A. NO. MONTGOMERY	T.I.M.S. NO. 6161	
SCALE: NONE	LOG MILE: 15032001.90		
DATE: 5-17-04			