

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a Point Control Person (Flag in the Air) at MD 450 and the Holy Trinity Episcopal Day School Exit in Prince George's County.

MD 450 is assumed to run in an east-west direction.

II. INTERSECTION OPERATION

1. Normal Operation:

The intersection shall operate in a Flashing Mode

2. Special Operation:

The intersection shall be point control, pushbutton activated. MD 450's normal 8" yellow indications shall quick flash, then the 12" yellow indication shall warn vehicles of the red to come. After the school vehicles exit, the point control person shall activate the Normal Operation.

An eight-phase full-traffic actuated solid state digital controller and intersection monitor with battery back-up housed in a NEMA size '5' pole-mounted cabinet shall be installed at the intersection.

The pushbutton shall be installed in the police panel of the cabinet

III. SPECIAL NOTE:

Upon completion of this project, the contractor shall notify Mr. Robert Snyder of the SHA, Office of Traffic and Safety at 410-787-7635 to arrange for the phone line installation. The street address of the school is 13106 Annapolis Road, Bowie, Maryland, 20720. The telephone number is 1-301-262-5335.

The following contact persons for District #3 are as follows:

Mr. Charlie Watkins
District Engineer
Phone: (301) 513-7300

Mr. Majid Shakib
Assistant District Engineer - Traffic
Phone: (301) 513-7358

Mr. Randy Brown
Assistant District Engineer - Maintenance
Phone: (301) 513-7304

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

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

The power company representative is:
BG&E
Mr. Mike Malizewski
7319 Parkway Drive
Hanover, Maryland 21076
1-410-859-9043

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY M.S.H.A.

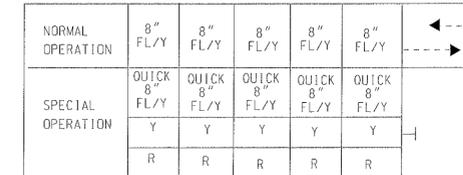
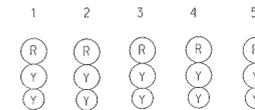
ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9000	1	EA	An eight-phase, solid state full-traffic actuated digital controller and Intersection Monitor II with battery back-up housed in a NEMA size '5' pole-mounted cabinet.
9089	21	SF	Flat Sheet aluminum sign. 2 each S1-1 "Individuals Crossing" symbol sign (42" x 36") fluorescent, yellow/green with black panel back ground.
NEG	1	EA	Red LED 120 Vac Pixel #556-1505-801
NEG	2	EA	AMBER LED 120 Vac Pixel #556-1705-801
NEG	1	EA	Plastic box enclosure #736-1620 or PN-1334-DC
NEG	1	EA	Standard Ped Button

EQUIPMENT LIST (cont)

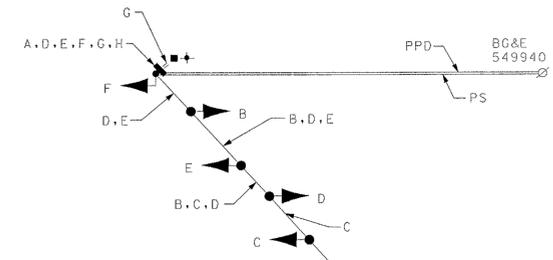
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	Maintenance of traffic.
2001	36	CY	Class 2 excavation.
2002	1	CY	Test pit excavation.
5001	2	EA	Heat applied thermoplastic pavement marking ARROW.
5005	33	LF	24" white heat applied thermoplastic preformed permanent pavement marking.
5006	650	LF	5" white heat applied thermoplastic preformed permanent pavement marking.
5008	770	LF	Remove existing pavement markings.
8006	1	EA	Cut, clean, galvanize and cap signal structure.
8011	10	EA	12" vehicular traffic signal head section.
8015	1	EA	3" Weatherhead.
8019	5	EA	8" vehicular traffic signal head section.
8020	1	EA	Control and distribution equipment (120/240 V, 1 phase 3 wire system).
8023	1	EA	27' steel pole (cut to 21') with 60' mast arm.
8051	25	LF	3" PVC schedule 80 electrical conduit- trenched.
8059	6	CY	Concrete foundation for signal structure.
8062	25	LF	No 6 AWG stranded bare copper ground wire
8072	30	LF	1-conductor electrical cable (No. 4 AWG-THHN/THWN).
8074	1	EA	Electrical handhole.
8077	21	SF	Install overhead sign.
8082	1	EA	Ground rod 3/4" dia x 10' length.
8084	20	LF	2-conductor electrical cable (No. 14 AWG).
8086	50	LF	5-conductor electrical cable (No. 14 AWG).
8087	180	LF	7-conductor electrical cable (No. 14 AWG).
8094	1	EA	Install controller and pole-mounted cabinet.
NEG	1	EA	PELCO cabinet part #SE-1002 with flat plate part # SE-0138 and key type 1B

PHASE CHART



WIRING DIAGRAM



WIRING KEY

- A - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C }
- D } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E }
- F }
- G - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- H - 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- PS - PROPOSED OVERHEAD SERVICE TO BE INSTALLED BY BG&E
- PPD - PROPOSED OVERHEAD PHONE DROP TO BE INSTALLED BY C&P
- ◆ - GROUND ROD



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 450 (ANNAPOLIS RD.) AND ENT. TO HOLY TRINITY EPISCOPAL DAY SCHOOL

GENERAL INFORMATION

DRAWN BY: EMM	F.A.P. NO. PG 434A.01	TS NO. 4114 GI	SHEET NO. 2 OF 2
CHECKED BY: RRRZ / KSA	S.H.A. NO.	T.I.M.S. NO. E 669	
SCALE: NONE	COUNTY: PRINCE GEORGE'S	LOG MILE: 16045011.95	
DATE: 8-1-01	TASK-22		