PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a new Intersection Control Beacon at the intersection of MD 260 (Chesapeake Beach Rd.)and Boyd's Turn Rd. / Horace Ward Rd. in Calvert County.

MD 260 is assumed to run in an east-west direction.

II. INTERSECTION OPERATION

1. The intersection operates in a NEMA (2) two-phase, flashing yellow for MD 260 and flashing red for Boyd's Turn Rd. / Horace Ward Rd.

2. A full-traffic-actuated, eight-phase controller with intersection monitor module, modem and UPS system and control and distribution and all necessary associated equipment housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.

III. SPECIAL NOTES

1. Upon completion of this project, the Contractor shall notify Mr. Robert Snyder at (410) 787-7631 to arrange for the phone line installation. The Contractor is to provide Mr. Robert Snyder with the nearest street address, zip code and phone number.

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

EQUIPMENT LIST

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

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9000	1	EA	Eight-phase full-traffic-actuated, solid state digital controller, intersection monitor module, moderm and UPS system housed in a NEMA size'6' base-mounted cabinet.
9089	105	SF	Flat Sheet aluminum sign (yellow, orange, silver).
			Associated Shield Assembly signs, pole mounted.
			1 each M3-2 "EAST" (30" x 15") M1-5 "MARYLAND 260" (36" x 36") M6-1 "RIGHT ARROW" (30" x 24")
			1 each M3-4 "WEST" (30" x 15") M1-5 "MARYLAND 260" (36" x 36") M6-1 "RIGHT ARROW" (30" x 24")
			1 each M3-2 "EAST" (30" x 15") M1-5 " MARYLAND 260" (36" x 36") M5-1 " LEFT TURN ARROW" (30" x 24")
			1 each M3-4 "WEST" (30" x 15") M1-5 "MARYLAND 260" (36" x 36") M5-1 "LEFT TURN ARROW" (30" x 24")
			1 each OM-1(1) "Object Marker" (18" x 18")
9090	34	SF	Flat Sheet aluminum sign (blue or green).
			1 each D3-2 "Boyd's Turn RD ARROW" sign. (variable x 16").
			1 each D3-2 "ARROW Boyd's Turn RD " sign. (variable x 16").
			1 each D3-2 "Horace Ward RD ARROW" sign. (variable x 16").
			1 each D3-2 "ARROW Horace Ward RD" sign. (variable x 16").
			1 each D3-2 "Chesapeake Beach RD" dual-faced sign. (variable x 16").
9106	1	EA	27' steel pole with 44' mast arm. (4- anchor bolts 1½" x 60").
9112	1	EA	27' steel pole with twin 44' mast arms (4- anchor bolts 1½" x 60").

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

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
1001	2	EA	Maintanance of traffic.
2001	2	CY	Test pit excavation.
8001	8	CY	Concrete foundation.
8019	1	EA	Install controller and cabinet- base mount.
8024	80	LF	2 inch polyvinyl chloride (Schedule 80) electrical conduit - trenched.
8026	60	LF	2 inch polyvinyl chloride (Schedule 80) electrical conduit - bored.
8027	35	LF	3 inch polyvinyl chloride [Schedule 80] electrical conduit - trenched
8030	165	LF	4 inch polyvinyl chloride (Schedule 80) electrical conduit- trenched.
8032	140	LF	4 inch polyvinyl chloride (Schedule 80) electrcial conduit- bored.
8033	3	EA	Handhole.
8034	3	EA	Ground rod ¾" dia x 10' length.
8044	100	LF	5-conductor electrical cable (No. 14 AWG).
8045	760	LF	7-conductor electrical cable (No. 14 AWG).
8047	20	LF	1-conductor NO. 8 AWG- THHN/THWN.
8048	185	LF	No.6 AWG stranded bare copper ground wire.
8053	139	SF	Install overhead sign.
8066	1	EA	Control and distribution equipment (120/240 v. 1 phase 3 wire system).
8074	1	EA	Install steel pole and single mast arm.
8075	1	EA	Install steel pole and twin mast arm.
8084	8	EA	12 inch vehicular traffic signal head section. (Black-faced)

The following contact persons for District # 5 are as follows:

Mr. Paul Armstrong
District Engineer
Phone: (410) 841-1001

Mr. Larry Elliott
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

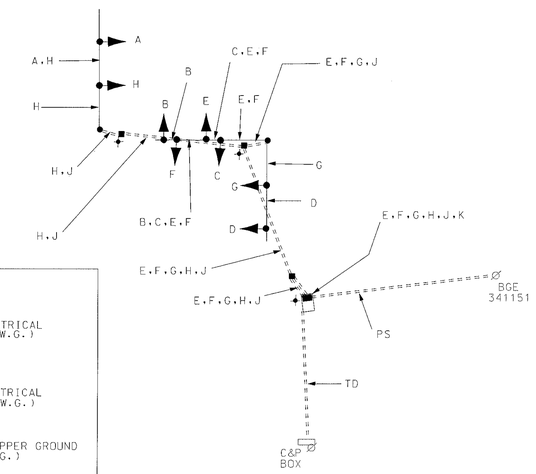
The power company representative is:

Baltimore Gas and Electrical
Mike Malizewski
7317 Parkway Drive
Hanover, Maryland 21076
Phone: (410) 859-9043

PHASE CHART

	1	2	3	4	5	6	7	8
	Y	Y	Y	Y	R	R	R	R
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R

Wiring Diagram



WIRING DIAGRAM

A, B, C, D } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

E, F, G, H } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

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

K - 1-CONDUCTOR ELECTRICAL CABLE (NO. 8 A.W.G.)

PS- PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY BGE

TD- PROPOSED UNDERGROUND TELEPHONE DROP

GROUND ROD

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

397201.DGN TASK 12

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 260 (CHESAPEAK BEACH RD.) & BOYD'S TURN RD./HORACE WARD RD.

DRAWN BY: EMM	F.A.P. NO.		TS NO. 4088	SHEET NO. 2 OF 2
CHECKED BY: RRZ	S.H.A. NO.	CAH72A(B57)		
SCALE: NONE	COUNTY:	CALVERT	T.I.M.S. NO. E 521	
DATE: 4/30/01	LOG MILE:	04026006.41		