DRILL HOLES

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EQUIPMENT LIST

A. S.H.A. furnished equipment material.

None.

B. Equipment to be furnished and installed by the Contractor.
All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
1	EA	818	27 ft. steel twin mast arm pole with two 50 ft. mast arms
1	EA	818	27 ft. steel mast arm pole with a 50 ft. mast arm
1	EA	818	27 ft. steel mast arm pole with a 70 ft. mast arm.
1	EA	816	Standard S.H.A. traffic signal controller, base mounted cabinet, and two (2) four-channel loop detector amplifiers and video detection equipment [Note: Controller and cabinet shall be purchased from Econolite and delivered to the S.H.A. signal shop for wiring and testing. Contact Mr. Ed Rodenhizer (410) 787-7650].
7	EA	814	12 in., one-way, three section (R,Y,G) (LED) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
2	EA	814	12 in., one-way, five section (R,Y,YA,G,GA)(LED) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
2	EA	814	12 in./8 in., one-way, five section (12 in. YA, GA/ 8 in. R,Y,G) (LED) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
4	EA	---	Video detection camera and cable (1-150 LF., 1-250 LF., 2-300 LF.)
1	EA	813	30 in. x 36 in. R 3-6(L) sign with mast arm mounting hardware.
1	EA	813	30 in. x 36 in. R 3-5(R) sign with mast arm mounting hardware.
2	EA	813	36 in. x 36 in. W 3-3 "NEW" sign for ground mounting.
2	EA	813	16 X VAR D3(1) [Dual Faced] sign with mast arm mounting hardware.
1	EA	813	24 in. x 51 in. Shield Assem with pole mounting hardware.
1	EA	813	36 in. x 75 in. Shield Assem with pole mounting hardware.
1	EA	806	20 ft. luminaire arm.
1	EA	806	250 W H.P.S. lamp and luminarie.
4	EA	---	Non-Invasive probe (set of 3) with 500 ft. lead-in cable
3	CY	205	Test pit excavation.
10	EA	811	Handhole.
90	LF	810	1-conductor electrical cable (No. 4 A.W.G.) (3 pieces).
70	LF	810	2-conductor electrical tray cable (No. 12 A.W.G.).
75	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
280	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
1175	LF	810	Bare copper stranded ground wire (No. 6 A.W.G.).
30	LF	804	1 in. Conduit riser for phone drop.
75	LF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
745	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
175	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - Slotted in roadway.
210	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
340	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - Slotted in roadway.
16.5	CY	801	Concrete foundation for traffic signal equipment.
7	EA	804	Ground rod - 3/4 in. diameter x 10 ft. length.
1	EA	807	Electrical utility service equipment (120/240 V, one phase, three wire system) for a type 807.05-01 underground electrical service.
140	LF	549	24 in. wide HAPPTPM - white for stop line.
82	LF	812	4 in. x 6 in. wood sign support.
2	EA	---	Cut, clean, galvanize, and cap (mast arm pole).

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a new traffic control signal at the intersection of US 1 (Belair Road) and Fallston Blvd in Harford County, Maryland.
US 1 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection is to operate in a NEMA six (6) phase, full-traffic-actuated mode. There will be an exclusive/permissive left turn phase for both the north and southbound movements of US 1. The US 1 through movements will operate concurrently. The Fallston Commons through movements will operate concurrently.

An eight phase, full-traffic-actuated, solid state digital controller with intersection monitor and harness, battery back-up, video detection equipment, and (2) four-channel rack mounted time delay output loop detector amplifiers housed in a base mounted cabinet are to be installed at this location.

III. SPECIAL NOTE:

The Contractor shall notify Mr. Robert Snyder of SHA at 410-787-7635 to arrange for the phone drop installation.

The Contractor is to provide Mr. Snyder with the nearest street number, zip code, and telephone number.

CONTACT LIST

The contact persons for District #4 are as follows:

Mr. Randall Scott
Assistant District Engineer - Traffic
410-321-2781

Mr. Mike Pasquariello
Assistant District Engineer - Utility
410-321-3460

Mr. Steve Marciszewski
Assistant District Engineer - Maintenance
410-321-2761

Mr. Ed Rodenhizer
MD-SHA-Signal Shop
410-787-7652

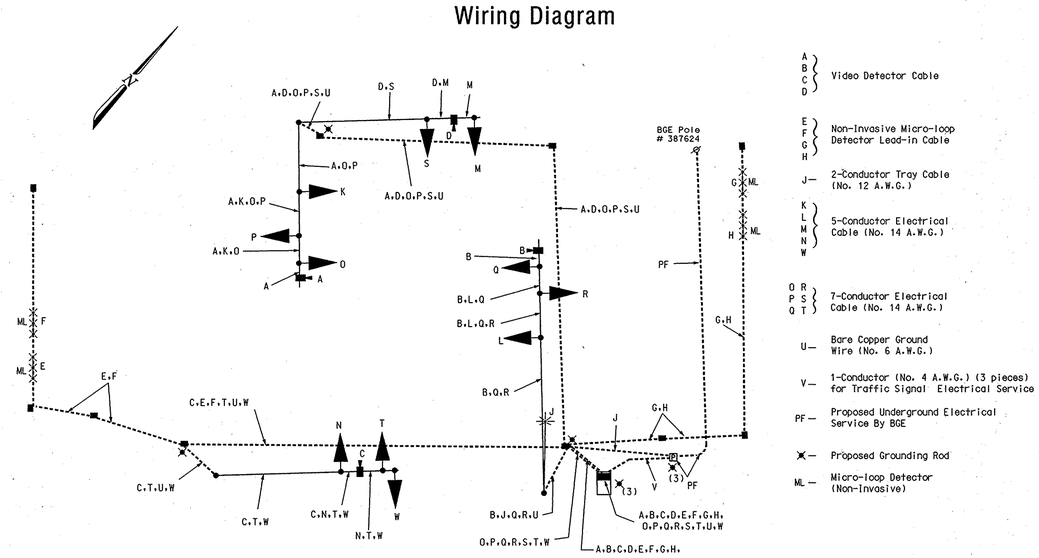
Mr. Richard L. Daff
Chief, Traffic Operations Division
410-787-7630

The Power Company Representative is:
Jason Wagner
Baltimore Gas and Electric Company
7317 Parkway Drive South
Hanover, Maryland 21076
410-859-9041
WMS # 1557203

Phase Chart

Phase	1	2	3	4	5	6	7	8	9	10	11
Phase 1 & 5	R, G	R, G	R	R, G	R, G	R	R	R	R	R	R
1 & 5 Change to Phase 1 & 6 or Phase 2 & 5 or Phase 2 & 6											
Phase 1 & 6	G, G	G, G	G	R	R	R	R	R	R	R	R
1 Change	G, Y	G, Y	G	R	R	R	R	R	R	R	R
Phase 2 & 5	R	R	R	G, G	G, G	G	R	R	R	R	R
5 Change	R	R	R	G, Y	G, Y	G	R	R	R	R	R
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	R
2 & 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	R	R
Phase 4 & 8	R	R	R	R	R	R	G	G	G	G	G
4 & 8 Change	R	R	R	R	R	R	Y	Y	Y	Y	Y
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R

Wiring Diagram



The Traffic Group

The Traffic Group, Inc.
Suite H
9900 Franklin Square Drive
Baltimore, Maryland 21236
410-931-6600
1-800-583-8411
Fax 410-931-6601

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US1(Belair Road) at Fallston Blvd.

GENERAL INFORMATION SHEET

SCALE N/A DATE 3-8-07 CONTRACT NO. BW996M82

DESIGNED BY Frank Hoeckel
DRAWN BY Frank Hoeckel
CHECKED BY
F.A.P. NO. N/A

COUNTY Harford
LOG MILE 120.01/01.91
T.I.M.S. NO. H-083
TOD NO.

DRAWING NO. TS - GI- 4495 SHEET NO. 2 OF 2

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