PROJECT DESCRIPTION

I. GENERAL

This project involves the reconstruction of the existing traffic control signal at the intersection of MD 2-4 and Stoakley Road/ Hospital Road in Calvert County, Maryland.
MD 2-4 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection shall continue to operate in a NEMA six (6) phase, full-traffic-actuated mode. There will be an exclusive left turn phase for both the north and southbound movements of MD 2-4. The MD 2-4 through movements will operate concurrently. The Stoakley Road/ Hospital Road through movements will operate in a side street split phase mode.

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.

EQUIPMENT LIST

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

None.

B1. Approved S.H.A. equipment to be purchased by the Developer 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
4	EA	818	32 ft. 2-ply steel strain pole.
1	EA	816	Standard S.H.A. traffic signal controller, base mounted cabinet, video detection equipment, and two (2) four-channel loop detector amplifiers [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].
5	EA	814	12 in., one-way, three section (RA,YA,GA) adjustable black faced traffic signal head with span wire mounting hardware and tunnel visors.
7	EA	814	12 in., one-way, three section (R,Y,G) adjustable black faced traffic signal head with span wire mounting hardware and tunnel visors.
2	EA	814	12 in./8 in., one-way, four section (12 in. GA/ 8 in. R,Y,G) adjustable black faced traffic signal head with span wire mounting hardware and tunnel visors.
2	EA	814	12 in. one-way, four section (12 in. R,Y,G,GA) adjustable black faced traffic signal head with span wire mounting hardware and tunnel visors.
3	EA	813	18 in. x 24 in. R 4-7 sign for ground mounting.
1	EA	813	30 in. x 30 in. R 5-1 sign for ground mounting.
4	EA	813	30 in. x 36 in. R 3-5(L) sign with span wire mounting hardware.
2	EA	813	30 in. x 36 in. R 3-5(R) sign with span wire mounting hardware.
2	EA	813	30 in. x 36 in. R 3-6(L) sign with span wire mounting hardware.
2	EA	813	16 in. x Var. D-3(1) Dual Face sign with span wire mounting hardware.
2	EA	813	24 in. x 51 in. Shield Assembly.
2	EA	813	36 in. x 75 in. Shield Assembly.
2	EA	813	48 in. x 96 in. D3-(3) "Next Signal" sign for ground mounting.
3	EA	---	Non-invasive micro-loop probe (set of 3) with 500 ft. lead-in cable.
2	EA	---	Non-invasive micro-loop probe (set of 3) with 750 ft. lead-in cable.
2	EA	---	Non-invasive micro-loop probe (set of 3) with 1000 ft. lead-in cable.
4	EA	806	15 ft. luminaire arm.
4	EA	806	250 W H.P.S. lamp and luminarie.

CONTACT LIST

The contact persons for District #5 are as follows:

Ms. Kim Tran
Assistant District Engineer - Traffic
410-84011003

Mr. Ernest Hodshon
Assistant District Engineer - Utility
410-841-5462

Mr. Chuck E. George
Assistant District Engineer - Maintenance
410-841-5461

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

The Power Company Representative is:
SMECO
Mr. Chuck Stone
4414 Crain Highway
White Plains, Maryland 20695
301-705-8686

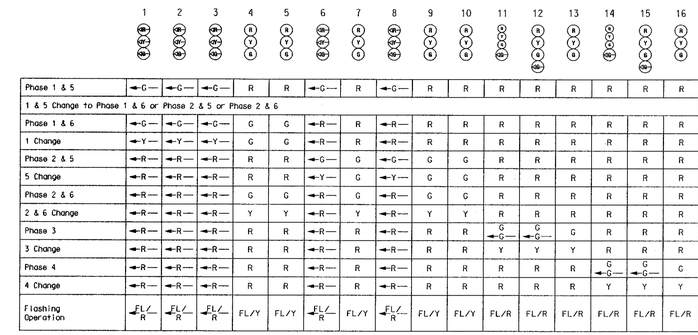
B2. Equipment to be furnished and/or installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
5	CY	205	Test pit excavation.
14	EA	811	Handhole.
75	LF	810	1-conductor electrical cable (No. 4 A.W.G.) (three pieces).
935	LF	810	2-conductor electrical tray cable (No. 12 A.W.G.).
1600	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
800	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
1000	LF	---	Video detector cable: 2 - 100 ft. of cable. 2 - 400 ft. of cable.
40	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
625	LF	819	1/4in. steel tether wire.
625	LF	819	3/8in. steel span wire.
750	LF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
30	LF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
30	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
145	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
20	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
70	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
21.25	CY	801	Concrete foundation for traffic signal equipment.
5	EA	804	Ground rod -3/4in. diameter x 10 ft. length.
1	EA	807	Electrical utility service equipment (120/240 V, one phase, three wire system) for a type B-13 electrical service to be determined in the field.
200	LF	556	24 in. wide HAPPTPM - white for stop line.
57	LF	812	4 in. x 4 in. wood sign support.
64	LF	812	4 in. x 6 in. wood sign support.
4	EA	---	Relocate existing video detector camera.
60	LF	---	Remove existing pavement marking by grinding.
3	EA	822	Remove existing ground mounted sign.
5	EA	---	Removal of existing concrete foundations 12 inches below grade.
Lump Sum	LS	---	Remove and dispose of existing traffic signal equipment.
Lump Sum	LS	---	As-built for S.H.A. [on CADD].

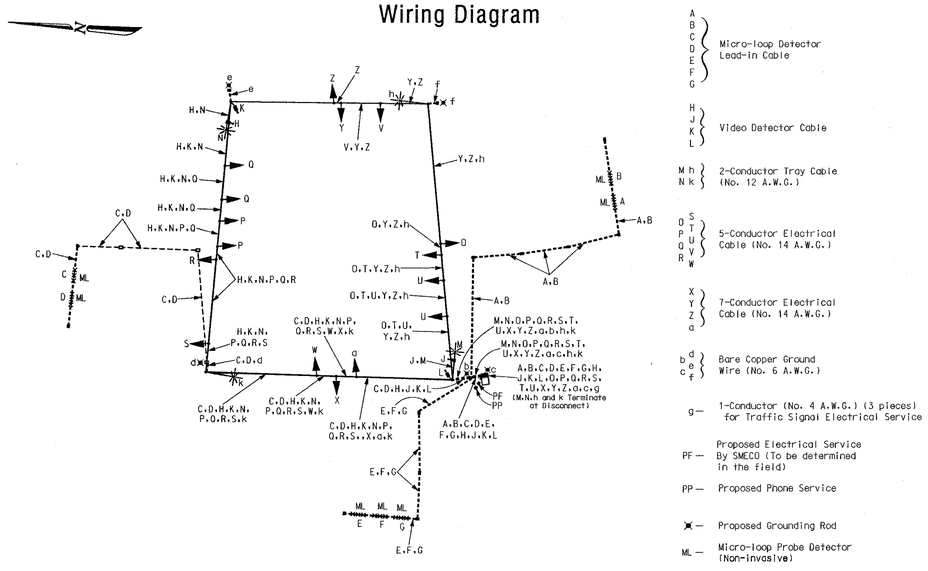
C. SHA forces shall remove the controller and all auxiliary equipment from the controller cabinet. The cabinet and all other materials to be removed by the contractor shall become the property of the contractor.

Quantity	Units	Description
1	EA	Base mounted cabinet and controller.
2	EA	12 in. 3-section traffic signal head.
11	EA	12 in. 4-section traffic signal head.
4	EA	Steel strain pole.
8	EA	Signs.
2	EA	Luminaire and luminaire arm.

Phase Chart



Wiring Diagram



Revision "J"

The Traffic Group
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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(General Information Plan)
MD 2-4 at Stoakley Rd./ Hospital Road

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CHECKED BY:	D. Randolph	S.H.A. NO.	BW996M82		
SCALE:	N/A	COUNTY:	Calvert	T.I.M.S. NO. G200	2 OF 2
DATE:	April 8, 2004	LOG MILE:	04002021.52		

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