

**PROJECT DESCRIPTION**

**I. GENERAL**

This project involves the modification of the existing traffic control signal at the intersection of Old Washington Road and Acton Lane in Charles County, Maryland. Old Washington Road is considered to run in a north/south direction.

The west and south legs of the intersection are being widened and requires the pole in the south west corner to be relocated.

**II. INTERSECTION OPERATION**

The intersection will continue to operate in a NEMA four (4) phase, full-traffic-actuated mode. The Old Washington Road through movements will operate concurrently. The Acton Lane through movements will operate concurrently.

The existing cabinet and controller shall be utilized.

**CONTACT LIST**

The contact persons for District #5 are as follows:

Ms. Kim Tran  
Assistant District Engineer - Traffic  
410-841-1019

Mr. Mark Coblenz  
Assistant District Engineer - Utility  
410-841-1031

Mr. Chuck E. George  
Assistant District Engineer - Maintenance  
410-841-1013

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

The Power Company Representative is:  
SMECO

Mr. Chuck Stone  
4415 Cran Highway  
White Plains, Maryland 20695  
301-705-8686

**EQUIPMENT LIST**

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

None.

**B. Equipment to be furnished and installed by the Contractor.**

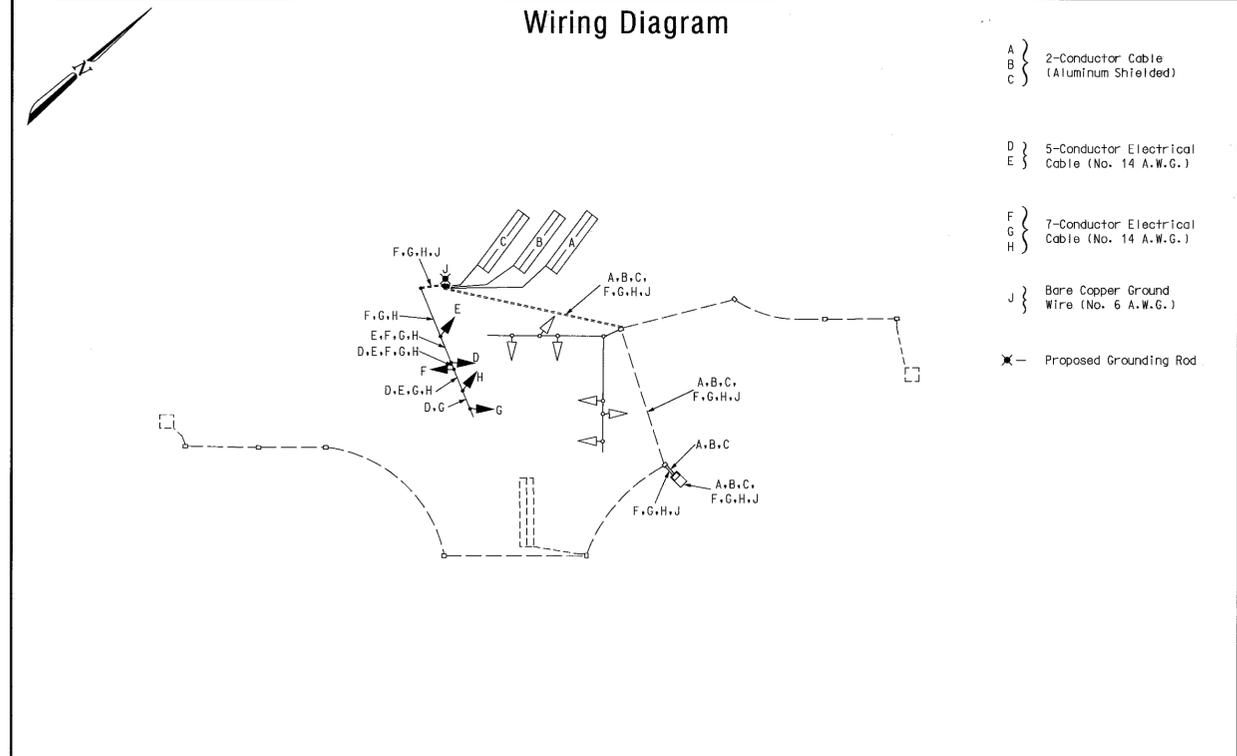
All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
1	EA	818	27 ft. steel mast arm pole with a 60 ft. mast arm
1	EA	814	8 in., one-way, three section (R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
4	EA	814	12 in., one-way, three section (R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
1	EA	813	30 in. x 36 in. R 3-5(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.
1	CY	205	Test pit excavation.
1	EA	811	Handhole.
400	LF	815	Sawcut for signal loop detector.
1465	LF	810	Loop detector wire (No. 14 A.W.G.) enclosed in flexible tubing.
500	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
60	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
780	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
180	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
15	LF	805	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
15	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
85	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
5	CY	801	Concrete foundation for traffic signal equipment.
1	EA	804	Ground rod - 3/4 in. diameter x 10 ft. length.
50	LF	549	24 in. wide HAPPTM - white for stop line.
1	EA	---	Cut, clean, and cap mast arm pole.
Lump Sum	LS	---	Remove and dispose of existing concrete foundation 12 inches below grade.
Lump Sum	LS	---	Remove and dispose of existing signal equipment.
Lump Sum	LS	---	As-built for S.H.A. (on CADD).

**Phase Chart**

	1	2	3	4	5	6	7	8	9	10	11	
	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
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**



**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
**TRAFFIC ENGINEERING DESIGN DIVISION**  
(General Information Plan)  
**Old Washington Road at Acton Lane**

DRAWN BY: J. Storck	F.A.P. NO. N/A	TS NO. 3648A-GI	SHEET NO.
CHECKED BY:	S.H.A. NO. BW996M82	T.I.M.S. NO.	2 OF 2
SCALE: N/A	COUNTY: Charles	LOG MILE: 080018.0482	
DATE: May 13, 2005			