PROJECT DESCRIPTION

I. GENERAL

This project involves the reconstruction of the existing traffic control signal at the intersection of MD 586 (Veirs Mill Road) and Reedie Drive/ Wheaton Plaza North Entrance in Montgomery County, Maryland. MD 586 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection is to be modified to operate in a NEMA six (6) phase, semi-traffic-actuated mode. There will be an exclusive lead/lag left turn phase for both the north and southbound movements of MD 586. The MD 586 through movements will operate concurrently with a concurrent pedestrian movement across the east and west legs of the intersection. The Reedie Drive/Wheaton Plaza North Entrance through movements will operate concurrently with an actuated pedestrian movement across the north and south legs of the intersection.

The existing cabinet/controller will be utilized. Video camera detection equipment is to be installed at this location.

EQUIPMENT LIST

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

None.

B. 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
1	EA	818	27 ft. steel mast arm pole with a 70 ft. mast arm (painted NPS Brown).
2	EA	818	4 ft. steel pedestal pole with break away transformer base (painted NPS Brown)
5	EA	814	12 in., one-way, three section (RA,YA,GA) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
8	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.
4	EA	814	16 in., two-way, one section (Countdown Indications) adjustable pedestrian signal head with pole mounting hardware and cut-away visors.
4	EA	---	Video camera detection (to include necessary cable for installation). One (1) - 400 ft., One (1) - 125 ft, Two (2) - 250
3	EA	813	30 in. x 36 in. R 3-5(L) sign with mast arm mounting hardware.
1	EA	813	24 in. x 30 in. R10-11 sign with mast arm mounting hardware.
1	EA	813	30 in. x 36 in. R 3-5 (R) sign with mast arm mounting hardware.
4	EA	813	Pedestrian pushbutton assembly with pushbutton sign.
1	EA	---	Video detection cabinet retro-fit.
2	EA	---	Nema load switch
Lump Sum	LS	801	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
3	CY	205	Test pit excavation.
4	EA	811	Handhole
225	LF	815	Sawcut for signal loop detector.
780	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
700	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
600	LF	810	2-conductor electrical cable (No. 14 A.W.G.).
2550	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
425	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
710	LF	810	12- pair Voice Grade (Jelly Filled) Telemetry Interconnect Cable (No. 19 A.W.G.).
425	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
20	LF	804	1 in. galvinized conduit for loop detector sleeve.
15	LF	804	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
40	LF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
20	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
10	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
350	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted in roadway.
1	EA	805	3 in. weatherhead.
4	EA	805	Elbows into existing foundations.
3	EA	804	Ground rod 3/4 in. diameter x 10 ft. length.
7.0	CY	801	Concrete foundation for traffic signal equipment.
1	EA	---	Removal of existing concrete foundation 12" below grade.
1	EA	---	Clean, cut, cap, and galvanize mast arm pole.
3	EA	---	Paint existing mast arm poles and mast arms (NPS Brown).
Lump Sum	LS	810	Remove existing traffic signal equipment.
Lump Sum	LS	---	Remove /Replace brick paver sidewalk.
Lump Sum	LS	---	Relocate Existing Interconnect Cable.
Lump Sum	LS	---	As-built for S.H.A. (on CADD).

C. Materials to be removed by the contractor shall become the property of the contractor.

Quantity	Units	Description
8	EA	12 in. 3-section traffic signal head.
1	EA	Steel mast arm pole and mast arm.

CONTACT LIST

The contact persons for District #3 are as follows:

Mr. Lee Starkoff
Assistant District Engineer - Traffic
301-513-7318

Mr. Augie Rebish
Assistant District Engineer - Utility
301-513-7350

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
301-513-7304

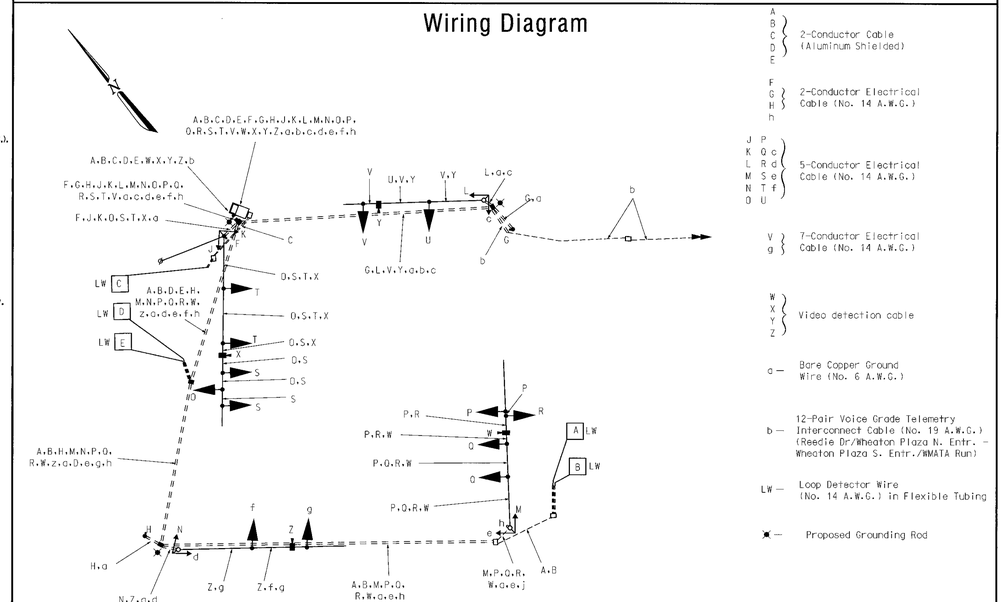
Mr. Richard L. Daff
Chief, Traffic Operations Division
410-787-7630

The Power Company Representative is:
PEPCO
Mr. Steven Custer
8300 Old Marlboro Pike
Upper Marlboro, Maryland 20772

Phase Chart

Phase 1 & 5	R	R	G	G	R	R	DW	DW	
5 Change	R	R	Y	G	R	R	DW	DW	
Phase 1 & 6	G	R	R	G	R	R	WK	DW	
Ped Clearance	G	R	R	G	R	R	FL/DW	DW	
1 Change	G	R	Y	Y	R	R	DW	DW	
Phase 2 & 6	G	R	R	R	R	R	DW	DW	
2 & 6 Change	Y	Y	R	R	R	R	DW	DW	
Phase 4 & 8	R	R	R	R	G	G	DW	DW	
4 & 8 Change	R	R	R	R	Y	Y	DW	DW	
Phase Alt 4 & Alt 8	R	R	R	R	G	G	DW	WK	
Ped Clearance	R	R	R	R	G	G	DW	FL/DW	
Alt 4 & Alt 8 Change	R	R	R	R	Y	Y	DW	DW	
Flashing Operation	FL/R	FL/Y	FL/R	FL/Y	FL/R	FL/R	DARK	DARK	

Wiring Diagram



The Traffic Group
The Traffic Group, Inc.
410-931-6600
Fax 410-931-6601

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(General Information Plan)
MD 586 (Veirs Mill Road) at Reedie Drive/Wheaton Plaza North Entrance

DRAWN BY: Frank Hoeckel	F.A.P. NO. N/A	TS NO. 2441-A	SHEET NO.
CHECKED BY:	S.H.A. NO. BW996M82		
SCALE: N/A	COUNTY: Montgomery	T.I.M.S. NO. G-383	4 OF 8
DATE: June 14, 2004	LOG MILE: I5058605.55		

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