PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the existing traffic control signal at the intersection of MD 28 (W. Montgomery Rd./ Key West Ave.) and Shady Grove Rd. in Montgomery County, Maryland. MD 28 is considered to run in an east/west direction.

The median on the north leg (Shady Grove Rd.) will be modified to accomodate a southbound double left turn movement.

II. INTERSECTION OPERATION

The existing cabinet, controller, and phasing shall be utilized.

The intersection will continue to operate in a NEMA eight (8) phase, semi-traffic-actuated mode. There is an exclusive left turn phase for both the east and west bound movements of MD 28. The MD 28 through movements operate concurrently with a concurrent pedestrian movement across the north and south legs of the intersection. There is an exclusive left turn movement for both the north and south-bound movements of Shady Grove Rd. The Shady Grove Rd. through movements operate concurrently with an actuated pedestrian movement across both the east and west legs of the intersection.

CONTACT LIST

The contact persons for District #3 are as follows:

Mr. Lee Starkloff
Assistant District Engineer - Traffic
Phone - 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

EQUIPMENT LIST

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

None.

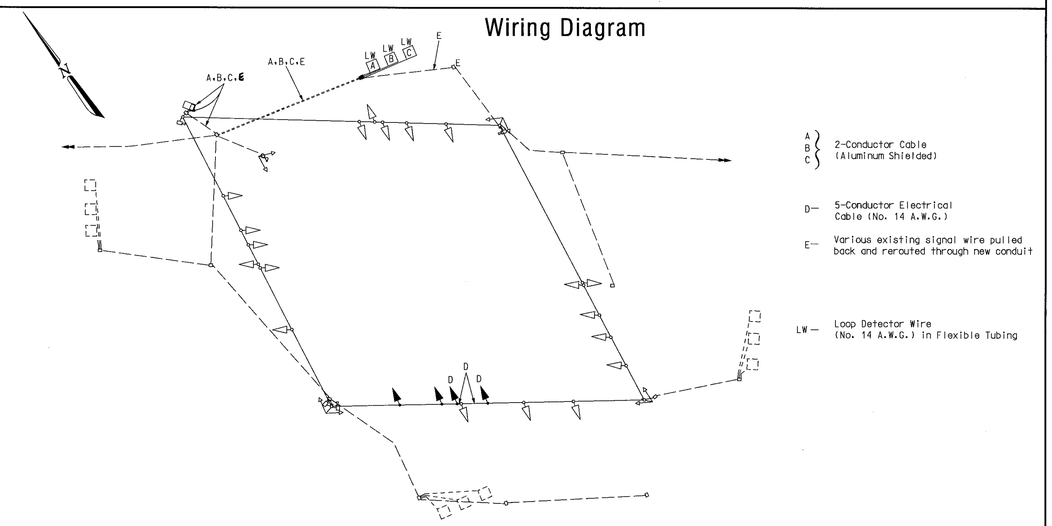
B. Equipment to be furnished and installed by the Contractor.
All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
1	EA	814	12 in., one-way, three section (RA,YA,GA) adjustable black faced traffic signal head with span wire mounting hardware and tunnel visors.
1	EA	813	30 in. x 36 in. R 3-5(L) sign with span wire mounting hardware.
1	EA	811	Handhole.
125	LF	815	Sawcut for signal loop detector.
340	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
385	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
25	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
10	LF	805	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
90	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted/trenched
60	LF	549	24 in. wide HAPPTPM - white for stop line.
30	LF	812	4 in. x 4 in. wood sign support.
3	EA	---	Relocate existing signal.
4	EA	---	Relocate existing sign.
Lump Sum	LS	---	Pull and run existing wire.
Lump Sum	LS	---	Remove and dispose of 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	12	13	14	15	16	17	18	19	20	21	22	23	24,25	26,27	28-31
Phase 1 & 5	G	R	G	G	R	R	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW
1 & 5 Change to Phase 1 & 6 or Phase 2 & 5 or Phase 2 & 6																										
Phase 1 & 6	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW	WK	DW
1 Change	Y	G	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW	WK	DW
Phase 2 & 5	R	R	R	R	R	R	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	WK	DW	DW
5 Change	R	R	R	R	R	R	Y	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R	R	R	WK	DW	DW
Phase 2 & 6	R	G	R	R	G	G	R	R	R	G	G	R	R	R	R	R	R	R	R	R	R	R	R	WK	WK	DW
Ped Clearance	R	G	R	R	G	G	R	R	R	G	G	R	R	R	R	R	R	R	R	R	R	R	R	FL/DW	FL/DW	DW
2 & 6 Change	R	Y	R	R	Y	Y	R	R	R	Y	Y	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW
Phase 3 & 7	R	R	R	R	R	R	R	R	R	R	R	G	R	R	G	G	R	R	G	G	G	R	R	DW	DW	DW
3 & 7 Change to Phase 3 & 8 or Phase 4 & 7 or Phase 4 & 8																										
Phase 3 & 8	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	G	R	R	R	R	R	DW	DW	DW
3 Change	R	R	R	R	R	R	R	R	R	R	R	Y	G	G	Y	Y	G	G	R	R	R	R	R	DW	DW	DW
Phase 4 & 7	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	DW	DW	DW
7 Change	R	R	R	R	R	R	R	R	R	R	R	R	G	G	R	R	R	R	Y	Y	Y	G	G	DW	DW	DW
Phase 4 & 8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	R	R	R	G	G	DW	DW	DW
4 & 8 Change	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	R	R	R	Y	Y	DW	DW	DW
Phase Alt 4 & Alt 8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	R	R	R	G	G	DW	DW	WK
Ped Clearance	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	R	R	R	G	G	DW	DW	FL/DW
Alt 4 & Alt 8 Change	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	R	R	R	Y	Y	DW	DW	DW
Flashing Operation	FL/R	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK

Wiring Diagram



Revision "1"

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 28 (W. Montgomery Ave./ Key West Ave.) at Shady Grove Road

DRAWN BY:	J. Storck	F.A.P. NO.	N/A	TS NO. 11891-GI	SHEET NO. 2 OF 2
CHECKED BY:		S.H.A. NO.	BW996M82		
SCALE:	N/A	COUNTY:	Montgomery	T.I.M.S. NO. G573	
DATE:	February, 2005	LOG MILE:	15028019.30		

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