PROJECT DESCRIPTION

I. GENERAL

This project involves the reconstructionn to the existing traffic control signal at the intersection of MD 235 and Entrance to Wal-Mart in St. Mary's County, Maryland.
MD 235 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The existing intersection operation is to be utilized.

The intersection geometrics are to be modified to allow a triple left turn out of the Wal-Mart Entrance.

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

EQUIPMENT LIST

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

None.

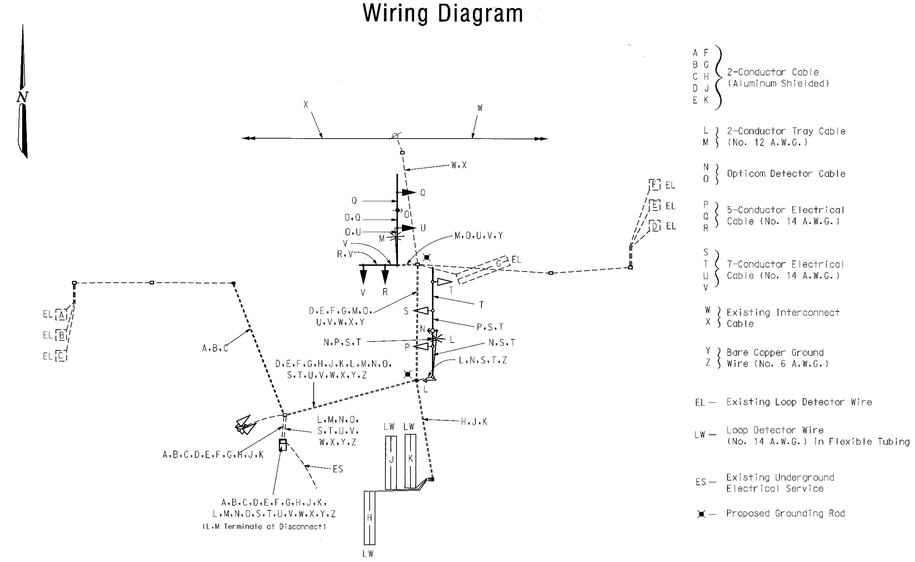
B. Equipment to be furnished and installed by the Contractor.
All equipment in this list shall have catalog cuts submitted for approval prior to installation.

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.
4	EA	814	12 in., one-way, three section (R,Y,G) adjustable block faced traffic signal head with mast arm mounting hardware and tunnel visors.
2	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(Mod) sign with mast arm mounting hardware.
1	EA	813	72 in. x 36 in. R 3-8(7) sign with ground mounting hardware.
1	EA	---	Opticom single detector eye - mast arm mount.
1	EA	806	15 ft. luminaire arm.
1	EA	806	250 W H.P.S. lamp and luminarie.
1	CY	205	Test pit excavation.
3	EA	811	Handhole.
175	LF	815	Sawcut for signal loop detector.
1500	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
450	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
350	LF	810	2-conductor electrical tray cable (No. 12 A.W.G.).
300	LF	810	Opticom Detector Cable
225	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
850	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
200	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.
55	LF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
10	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
250	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
5	CY	801	Concrete foundation for traffic signal equipment.
2	EA	804	Ground rod - 3/4 in. diameter x 10 ft. length.
215	LF	549	12 in. wide HAPPTPM - white for crosswalk.
36	LF	549	24 in. wide HAPPTPM - white for stop line.
200	LF	---	Remove existing pavement marking by grinding.
2	EA	---	Cut, clean, cap & re-galvanzive mast arm.
30	LF	812	4 in. x 4 in. wood sign support.
1	EA	---	Relocate existing ground mounted sign & post.
2	EA	---	Remove and dispose of existing concrete foundation 12 inches below grade.
Lump Sum	LS	---	Relocate existing electrical cables (Approx. 1300 LF).
Lump Sum	LS	---	Remove and dispose of existing signal equipment.
Lump Sum	LS	---	Remove/Replace existing brick paver sidewalk.
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 & 5	R	R	◄G—	G	G	◄G—	◄G—	R	R	DW
5 Change	R	R	◄Y—	G	G	◄Y—	◄Y—	R	R	DW
Phase 2 & 6	G	G	◄R—	G	G	◄R—	◄R—	R	R	WK
Ped Clearance	G	G	◄R—	G	G	◄R—	◄R—	R	R	FL/DW
2 & 6 Change	Y	Y	◄R—	Y	Y	◄R—	◄R—	R	R	DW
Phase 3	R	R	◄R—	R	R	◄R—	◄R—	G	G	DW
3 Change	R	R	◄R—	R	R	◄R—	◄R—	Y	Y	DW
Flashing Operation	FL/Y	FL/Y	◄FL/R	FL/Y	FL/Y	◄FL/R	◄FL/R	FL/R	FL/R	DARK

Wiring Diagram



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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(General Information Plan)
MD 235 at Wal-Mart Entr.

DRAWN BY: J. Dirndorfer	F.A.P. NO. N/A	TS NO. 3842A	SHEET NO.
CHECKED BY: -	S.H.A. NO. BW996M82		
SCALE: N/A	COUNTY: St. Mary's	T.I.M.S. NO. G-621	2 OF 2
DATE: September 28, 2004	LOG MILE: 18023515.58		

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