

PROJECT DESCRIPTION

I. GENERAL

This portion of the project involves the modification of the existing traffic control signal at the intersection of MD 22 and MD 543 in Harford County, Maryland. MD 22 is considered to run in an east/west direction.

II. INTERSECTION OPERATION

The intersection presently operates in NEMA eight (8) phase, full-traffic-actuated mode. There are exclusive/permissive left turn phases for both the east and westbound movements of MD 22. The MD 22 through movements operate concurrently. There are exclusive/permissive left turn phases for both the north and southbound movements of MD 543 along with a concurrent right turn overlap phase for the MD 22 eastbound to southbound movement. The MD 543 through movements operate concurrently.

The existing cabinet/controller and phasing are to be utilized. An additional one 4-channel rack mounted loop detector amplifier is to be installed.

EQUIPMENT LIST

A. 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
1	EA	816	4-channel rack mounted loop detector amplifier.
1	EA	813	30 in. x 36 in. R 3-5(R) sign with mast arm mounting hardware.

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.
980	LF	815	Sawcut for signal loop detector.
3250	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
435	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
30	LF	805	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
80	LF	556	24 in. wide HAPPTPM - white for stop line.
Lump Sum	LS	---	As-built for S.H.A. on CADD.

CONTACT LIST

The contact persons for District *4 are as follows:

Mr. Dave Malkowski
District Engineer
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Mr. Randall Scott
Assistant District Engineer - Traffic
410-321-2781

Mr. Graydon Tobery
Assistant District Engineer - Utility
410-321-3460

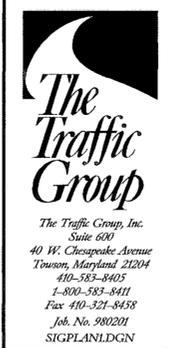
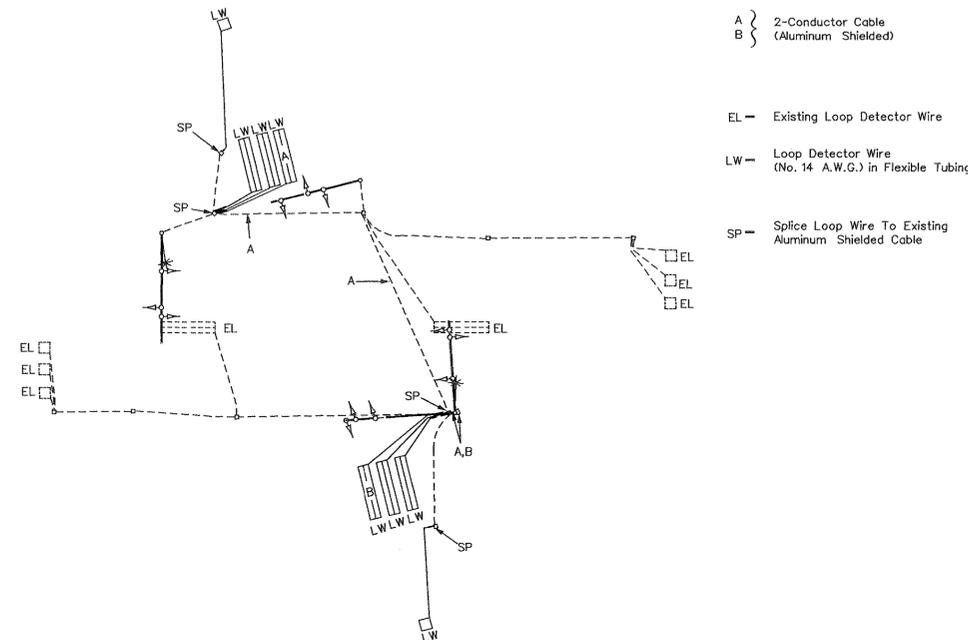
Mr. Dave Ramsey
Assistant District Engineer - Maintenance
410-321-2781

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

Phase Chart

	1	2	3	4	5	6	7	8	9	10	11	12
Phase 1 & 5	R	R	R	R	R	R	R	R	R	R	R	R
1 & 5 Change to Phase 1 & 6 or Phase 2 & 5 or Phase 2 & 6	G	G	G	G	G	G	G	G	G	G	G	G
Phase 1 & 6	G	G	G	R	R	R	R	R	R	R	R	R
1 Change	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Phase 2 & 5	R	R	R	R	R	R	R	R	R	R	R	R
5 Change	R	R	R	G	G	G	G	G	G	G	G	G
Phase 2 & 6	G	G	G	G	G	G	G	G	G	G	G	G
2 & 6 Change	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Phase 3 & 7	R	R	R	R	R	R	R	R	R	R	R	R
3 & 7 Change to Phase 3 & 8 or Phase 4 & 7 or Phase 4 & 8	G	G	G	G	G	G	G	G	G	G	G	G
Phase 3 & 8	R	R	R	R	R	R	R	R	R	R	R	R
3 Change	R	R	R	R	R	R	R	R	R	R	R	R
Phase 4 & 7	R	R	R	R	R	R	R	R	R	R	R	R
7 Change	R	R	R	R	R	R	R	R	R	R	R	R
Phase 4 & 8	R	R	R	R	R	R	R	R	R	R	R	R
4 & 8 Change	R	R	R	R	R	R	R	R	R	R	R	R
Fashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

Wiring Diagram



MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(General Information)

MD 22 at MD 543

DATE: October 14, 1999 LOG MILE • 12002202.5

DRAWN BY: F. Hoeckel	F.A.P. NO. N/A	PLAN SHEET NO.:	SHEET NO.
CHK. BY:	S.H.A. NO. BW99M82	263H-GI	2 of 4
SCALE: N/A	COUNTY: Harford		

14 OCT 1999