

PROJECT DESCRIPTION

I. GENERAL

This portion of the project involves the modification of the existing traffic control signal at the intersection of MD 30 and MD 27/Entrance to Sheetz in Carroll County, Maryland. MD 30 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection presently operates in a NEMA four (4) phase, full-traffic-actuated mode. The MD 30 through movements operate concurrently. The MD 27/Entrance to Sheetz movements operate concurrently with an actuated pedestrian phase across the north leg of the intersection.

The intersection is to be modified to operate in a NEMA six (6) phase full-traffic-actuated mode. There will be an exclusive /permissive left turn phase for the northbound movement of MD 30. The MD 30 through movements will operate concurrently. There will be an exclusive/permissive left turn phase for eastbound movement of MD 27. The MD 27/ Entrance to Sheetz through movements will operate concurrently with an actuated pedestrian phase across the north leg of the intersection.

The existing base mounted cabinet/controller will be utilized. The existing 2-channel loop detector amplifiers are to be replaced with 4-channel rack mounted loop detector amplifiers.

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
2	EA	814	12 in., one-way, five section (R,Y,YA,G,G) adjustable traffic yellow faced signal head with mast arm mounting hardware and tunnel visors.
2	EA	814	12 in./8 in., one-way, five section (12 in. YA, GA/ 8 in. R,Y,G) adjustable traffic yellow faced signal head with mast arm mounting hardware and tunnel visors.
1	EA	813	36 in. x 42 in. R 10-12 sign with mast arm mounting hardware.
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	EA	813	36 in. x 36 in. R 3-8(MOD.) sign with ground mounting hardware.
3	EA	---	* 4-channel rack mounted loop detector amplifier.
1	EA	---	* 4-channel rack mounted loop detector power supply.
1	EA	---	* 4-channel rack mounted loop detector re-to-fit kit.

* To be installed by MD-SHA.

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.
120	LF	815	Sawcut for signal loop detector.
435	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
175	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
425	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
5	LF	804	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
2	EA	556	HAPPTPM symbol - white "ONLY".
1	EA	556	HAPPTPM symbol - white "LEFT Arrow".
15	LF	812	4 in. x 6 in. wood sign support.
Lump Sum	LS	---	Remove existing traffic signal equipment.
2	EA	---	Remove existing pavement marking symbol by grinding.
Lump Sum	LS	---	As-built for S.H.A. (on CADD).

CONTACT LIST

The contact persons for District #7 are as follows:

Mr. Robert Fisher
District Engineer
301-624-8101

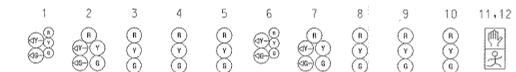
Mr. John Concannon
Assistant District Engineer - Traffic
301-623-810-1

Mr. John Wright
Assistant District Engineer - Utility
410-321-3460

Mr. Leon Kerns
Assistant District Engineer - Maintenance
301-624-8101

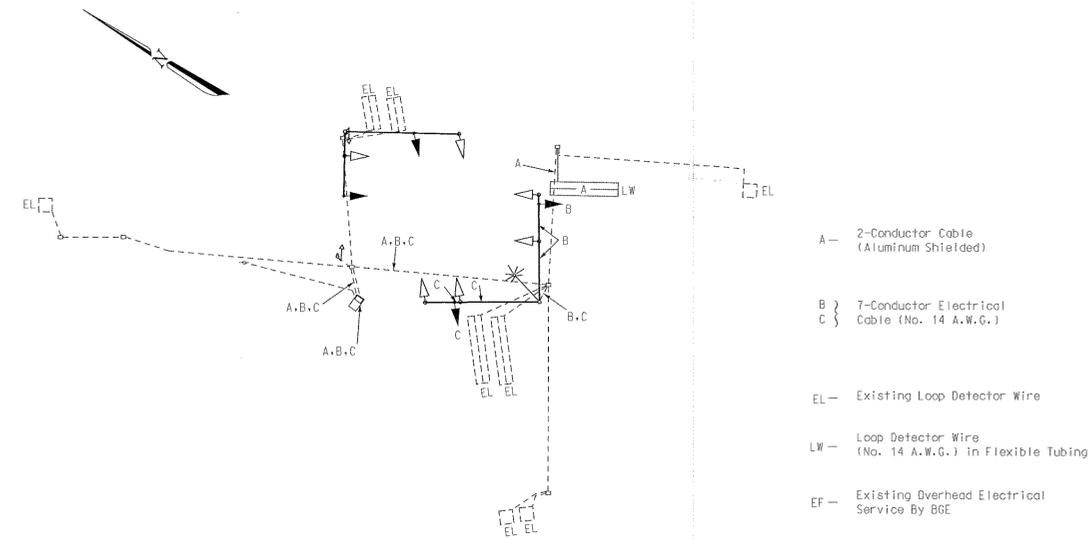
Mr. Richard L. Daff
Chief, Traffic Operations Division
410-787-7630

Phase Chart



Phase	1	2	3	4	5	6	7	8	9	10	11,12
Phase 1 & 6	G	G	G	R	R	R	R	R	R	R	DW
1 Change	G	G	G	R	R	R	R	R	R	R	DW
Phase 2 & 6	G	G	G	G	G	R	R	R	R	R	DW
2 & 6 Change	Y	Y	Y	Y	Y	R	R	R	R	R	DW
Phase 4 & 7	R	R	R	R	R	G	G	G	R	R	DW
7 Change	R	R	R	R	R	G	G	G	R	R	DW
Phase 4 & 8	R	R	R	R	R	G	G	G	G	G	DW
4 & 8 Change	R	R	R	R	R	Y	Y	Y	Y	Y	DW
Phase 4 & A11 8	R	R	R	R	R	G	G	G	G	G	WK
Ped Clearance	R	R	R	R	R	G	G	G	G	G	FL/DW
4 & A11 8 Change	R	R	R	R	R	Y	Y	Y	Y	Y	DW
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK

Wiring Diagram



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

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(General Information Plan)
MD 30 and MD 27/Entrance to Sheetz

DRAWN BY: FJH	F.A.P. NO. N/A	TS NO. 2393C-GI	SHEET NO. 4 OF 4
CHECKED BY:	S.H.A. NO. BW996M82	T.I.M.S. NO. D720	
SCALE: N/A	COUNTY: Carroll		
DATE: March 28, 2000	LOG MILE: 06003006.68		

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