

PROJECT DESCRIPTION

I. General

This portion of the project involves the installation of a temporary traffic control signal at the intersection of MD 108 and Temporary MD 104. MD 108 is assumed to run in a generally east-west direction.

II. Intersection Operation

This intersection is proposed to operate in a fully actuated mode with the northbound Temporary MD 104 left turn lane operating in an exclusive/permissive phase.

III. Special Notes

1. The following contact persons for District #7 are as follows:

- Mr. Robert Fisher, District Engineer (301) 694-2145
- Mr. John Concannon, Asst. District Engineer - Traffic (301) 694-2592
- Mr. Jim Brown, Utility Engineer (301) 694-2025
- Mr. Richard Daff, Chief, Traffic Operations Division (410) 787-7630
- Mr. Leon King, Asst. District Engineer - Maintenance (301) 694-1966

2. Maintenance of traffic will be handled by the contractor utilizing the following standard plates for traffic control: 105.00, 105.01, 105.02, 105.03, 105.101, 105.103, 105.105, 105.107, 105.109.

EQUIPMENT LIST

A. Equipment to be supplied by the Administration.

Item No.	Quantity	Units	Specification Section	Description
1	EA	814	8 IN. 1 WAY 3 SECTION (R, Y, G) SIGNAL HEAD SPAN MOUNT.	
4	EA	814	12 in. 1 way 3 section (R,Y,G) polycarbonate signal head - span mount.	
1	EA	814	12 in. 1 way 5 section (R,Y,G,YA,GA) polycarbonate signal head - span mount.	
1	EA	814	Combination 8 in./12 in. 1 way 5 section (8 in. R,Y,G /12 in. YA,GA) polycarbonate signal head - span mount.	
1	EA	816	Eight-phase (fully actuated controller and cabinet) - pole mount.	
2	EA	817	Four channel loop detector amplifier (delayed output).	
105	SF	813	Sheet aluminum signs consisting of:	
1	EA		R10-12, (36 in. x 42 in.) "Left Turn Yield on Green" - span wire mount.	
6	EA		Guide shield assembly (30 in. x 51 in.) - ground mount.	
2	EA		R1-2 (36" x 36" x 36") ground mount.	
2	EA		R3-5(L) (30" x 36") span mount.	
1	EA		R3-5(R) (30" x 36") span mount.	

B. Equipment to be furnished and/or installed by the Contractor.

Item No.	Quantity	Units	Specification Section	Description
4	CY	205		Test pit excavation.

EQUIPMENT LIST (CONT.)

B. Equipment to be furnished and/or installed by the Contractor.

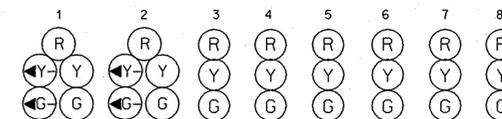
Item No.	Quantity	Units	Specification Section	Description
12	CY	801		Furnish and install concrete for signal foundation.
4	EA	804		Furnish and install ground rod - 3/4 in. diameter x 10 ft.
20	LF	805		Furnish and install 3 in. schedule 40 rigid PVC conduit - Trenched.
690	LF	805		Furnish and install 2 in. schedule 40 rigid PVC conduit - Trenched.
25	LF	805		Furnish and install 1 in. liquid tight flexible non-metallic conduit for detector wire sleeve.
2	EA	806		Furnish and install 250 Watt high pressure sodium lamp and luminaire with photo cell.
1	EA	807		Furnish and install control and distribution equipment.
120	LF	810		Furnish and install electrical cable 1-conductor No. 4 AWG - THHN/THWN.
1350	LF	810		Furnish and install electrical cable - 2 conductor (Aluminum shielded).
80	LF	810		Furnish and install electrical cable - 5 conductor (No. 14 AWG).
550	LF	810		Furnish and install electrical cable - 7 conductor (No. 14 AWG).
1200	LF	810		Furnish and install loop wire encased in flexible tubing (No. 14 AWG).
310	LF	810		Furnish and install 2 - conductor - Tray cable (No. 12 AWG).
8	EA	811		Furnish and install electrical handhole.
33	SF	813		Install overhead sign for signals.
72	SF	813		Install ground mount sign.
7	EA	814		Install signal head - any type.
376	LF	815		Furnish and install saw cut for signal (loop detector).
1	EA	816		Install eight phase (fully actuated) controller and cabinet - pole mount.
300	LF	819		Furnish and install 3/8 in. steel span wire.
300	LF	819		Furnish and install 1/4 in. tether wire.
60	LF	555		24 in. white preformed pavement marking tape.
4	EA	SP		Furnish and install steel strain pole. (Note: Four 1-3/4" x 90" anchor bolts)
2	EA	818		Furnish and install 20 ft. lighting arm on signal structure

EQUIPMENT LIST (CONT.)

B. Equipment to be furnished and/or installed by the Contractor.

Item No.	Quantity	Units	Specification Section	Description
120	LF	812		Wooden sign support 4 in. x 4 in.
1	EA	SP		Removal and dispose of existing traffic signal equipment.
1	EA	SP		Removal and salvage of traffic signal equipment
1	EA	816		Controller and cabinet - pole mount.
1	EA	SP		DELIVERY OF SALVAGE TRAFFIC SIGNAL EQUIPMENT CONSISTING OF:
1	EA	SP		CONTROLLER & CABINET - POLE MOUNT.

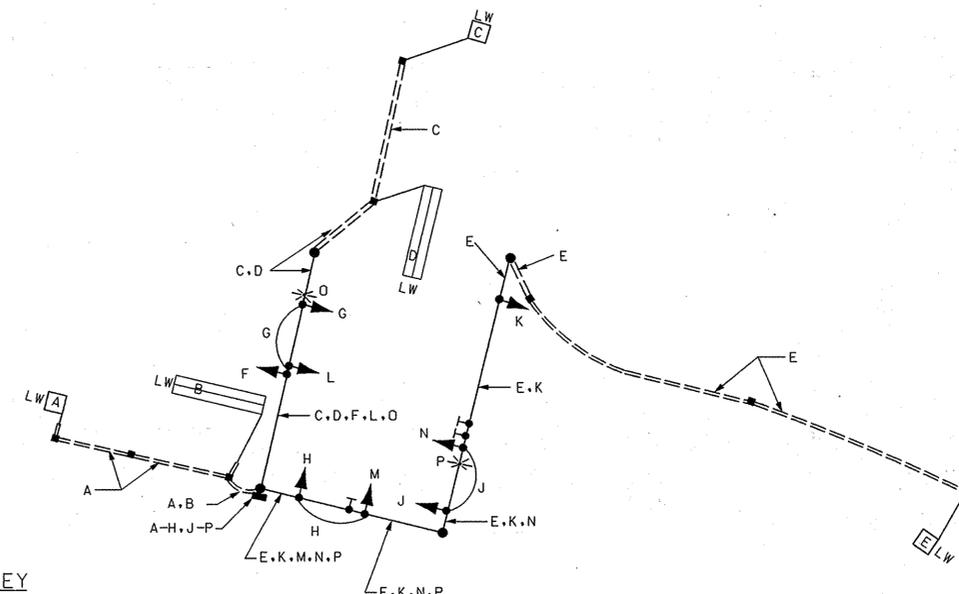
PHASING SEQUENCE CHART



PHASE	1	2	3	4	5	6	7	8
PHASE 1 & 6	G-/G	G-/G	G	R	R	R	R	R
PHASE 1 & 6 CLEAR	Y-/G	Y-/G	G	R	R	R	R	R
PHASE 2 & 6	G	G	G	G	G	G	R	R
PHASE 2 & 6 CLEAR	Y	Y	Y	Y	Y	Y	R	R
PHASE 4	R	R	R	R	R	R	G	G
PHASE 4 CLEAR	R	R	R	R	R	R	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R

R = RED
Y = YELLOW
G = GREEN
YA = YELLOW ARROW
GA = GREEN ARROW
FL = FLASHING

WIRING DIAGRAM



WIRING KEY

A-E=2 CONDUCTOR ALUMINUM SHEILDDED (NO. 14 AWG)
G,H,J,K=5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
F,L,M,N=7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
O,P=2 CONDUCTOR TRAY CABLE (NO. 12 AWG)

SIG-7 TEMPORARY SIGNAL #3 PHASE II

REVISIONS		APPROVALS		MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION			
		ASST. DIV. CHIEF, SIGNAL DESIGN SECTION		ORIGINAL DRAWN BY <u>ROB CICCHINI</u>		MD 100 AT TEMPORARY MD 104	
		ASST. DISTRICT ENGINEER, TRAFFIC		DES. BY <u>S. CHERNACK/D. PETERS</u>		GENERAL INFORMATION SHEET	
		CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION		CHK. BY <u>Bruce Thompson 11-14-96</u>		LOG MILE NO. _____ COUNTY: <u>HOWARD</u>	
		DEPUTY CHIEF ENGINEER, OFFICE OF TRAFFIC		DATE: <u>10/96</u> F.A.P. NO. <u>SEE TITLE SHEET</u>		TS/FILE NO. _____	
		REDLINE NO. 9 4/29/98		SCALE: _____ S.H.A. NO. <u>HO-661-502-770</u>		SHEET NO. <u>418</u> OF <u>529</u>	