

PROJECT DESCRIPTION

This Project involves the modification of the existing traffic control signal at the intersection of MD 152 and MD 165 in Harford County.

The modification involves adding exclusive/permisive left-turn phasing for northbound and southbound MD 152.

INTERSECTION OPERATION

The intersection currently operates in a NEMA four phase, full-traffic actuated mode with the MD 152 through movements operating concurrently and the MD 165 through movements operating concurrently.

EQUIPMENT TO BE FURNISHED BY SHA

9089	155	SF	LEFT TURN YIELD ON GREEN SIGN, SPAN MOUNTED R10-12 (36" X 42") - 2 EA SHIELD ASSEMBLY SIGNS, POLE MOUNTED MD 152 (48" X 75") - 2 EA MD 152 (24" X 51") - 2 EA SHIELD ASSEMBLY SIGNS, POLE MOUNTED MD 165 (48" X 75") - 2 EA MD 165 (24" X 51") - 2 EA
9000	1	EA	RETROFIT DETECTOR RACK
9000	1	EA	POWER SUPPLY
9000	3	EA	4 CHANNEL AMPLIFIER

EQUIPMENT TO BE FURNISHED AND/OR TO BE INSTALLED BY THE CONTRACTOR

100000	1	EA	MAINTENANCE OF TRAFFIC
869101	200	LF	FURNISH AND INSTALL STEEL SPAN WIRE - 1/4 INCH DIAMETER
805160	15	LF	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE)
862102	250	LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
862101	865	LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
861104	320	LF	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG) - ALUMINUM SHIELDED
861107	25	LF	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	370	LF	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
813015	155.0	SF	INSTALL OVERHEAD SIGN
800000	1	EA	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
800000	6	EA	FURNISH AND INSTALL 8 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION - BLACK FACE
800000	32	EA	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION - BLACK FACE

CONTACT LIST

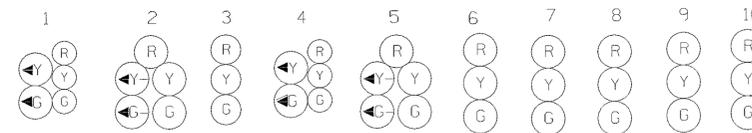
Mr. Dave Melkowsky, District Engineer  
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Mr. Joseph McMahon, Assistant District Engineer-Utilities  
Phone: (410) 321-2841

Mr. Edward Rodenhizer, Chief  
SHA Traffic Signal Shop  
Phone: (410) 787-7650

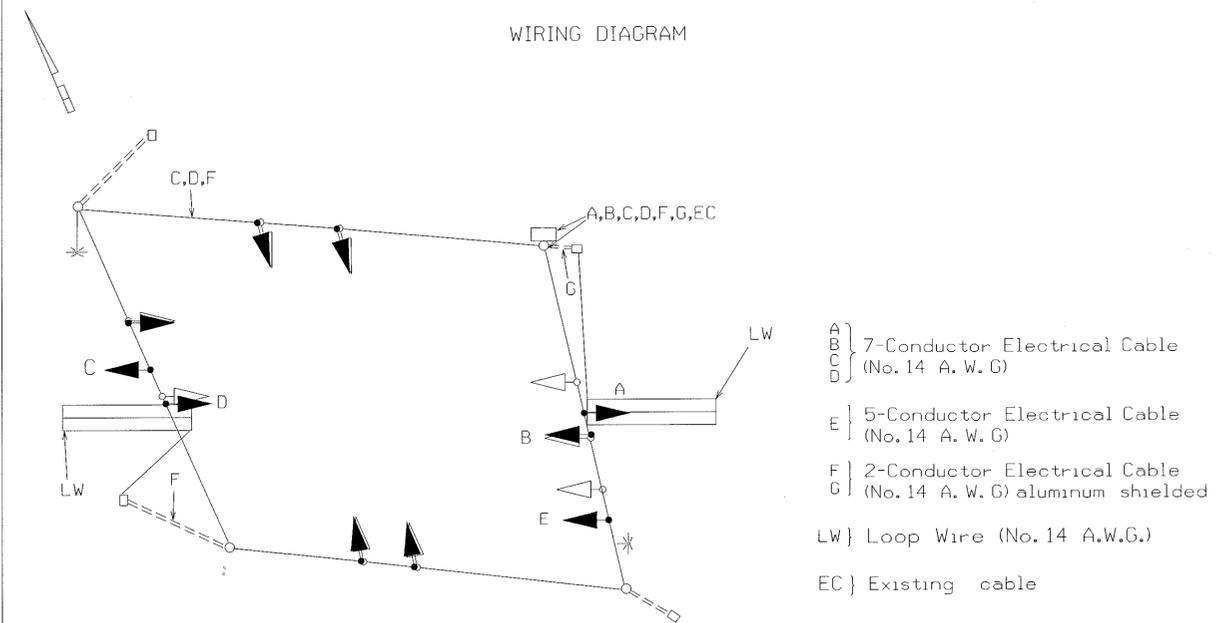
Mr. Richard Daff SR., Chief  
Traffic Operations Division  
Phone: (410) 787-7630

PHASE CHART



Phase 1 & 5	←G-R	←G-R	R	←G-R	←G-R	R	R	R	R	R	↑
1 & 5 Change	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6										↓
Phase 1 & 6	←G-G	←G-G	G	R	R	R	R	R	R	R	↑
1 & 6 Change	←Y-G	←Y-G	G	R	R	R	R	R	R	R	→
Phase 2 & 5	R	R	R	←G-G	←G-G	G	R	R	R	R	←
2 & 5 Change	R	R	R	←Y-G	←Y-G	G	R	R	R	R	↓
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	←
2 & 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	R	→
Phase 4 & 8	R	R	R	R	R	R	G	G	G	G	↓
4 & 8 Change	R	R	R	R	R	R	Y	Y	Y	Y	↑
Flashing	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	+
Operation											+

WIRING DIAGRAM



REVISIONS		APPROVALS	
①	INSTALL E/P LT PHASING ON MD 152 SHA NO. OT 2000		
BV		TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION	
②	REPLACE FAILED LOOP DETECTORS 3/94 AW 579-501-085 FAP No.: AC-CMS-STPC-00051191JE		
		ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION	
③	INSTALLED LOOP DETECTOR FOR E/B MD 165 8/90		
		CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	
④	RELOCATE SIGNAL EQUIPMENT AND CUT LOOPS FOR GEOMETRIC WORK 9/29/87		
		DIRECTOR, TRAFFIC & SAFETY	
DA	SR	ETP	DAZ
			TH

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 152 @ MD 165

DRAWN BY: BRIGIDA VOORNIK  
CHECKED BY: \_\_\_\_\_  
SCALE: \_\_\_\_\_  
DATE: 08/04/00

F.A.P. NO. 935472002811  
S.H.A. NO. 1737.0  
COUNTY: HARFORD  
LOG MILE: 12152013.35

TS NO. 1737.0  
SHEET NO. \_\_\_\_\_  
T.I.M.S. NO. D-962  
02 OF 02