

PROJECT DESCRIPTION
GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 7 AT MD 543 IN HARFORD COUNTY. MD 7 IS CONSIDERED TO RUN IN AN EAST/WEST DIRECTION.

THE MODIFICATION IS TO INSTALL MICRO-LOOP PROBES, RELOCATE, AND INSTALL NEW SIGNAL HEAD FOR THE NEW EASTBOUND MD 7 DOUBLE LEFT TURN.

INTERSECTION OPERATION

THE EXISTING CONTROLLER HOUSED IN A BASE MOUNTED CABINET IS TO BE UTILIZED. THE INTERSECTION OPERATES IN A FULLY ACTUATED MODE USING 8 NEMA PHASES. THERE IS AN EXCLUSIVE LEFT TURN PHASE FOR BOTH THE EAST AND WESTBOUND MOVEMENTS OF MD 7. THE MD 7 THROUGH MOVEMENTS OPERATE CONCURRENTLY. THERE IS AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR BOTH THE NORTH AND SOUTHBOUND MOVEMENTS OF MD 543. THE MD 543 MOVEMENTS OPERATE CONCURRENTLY. A SECOND EASTBOUND MD 7 LEFT TURN LANE IS TO BE ADDED.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MS. ERIN KUHN, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: 410-229-2381
MR. DONALD SCHAFFER, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410-229-2421)
MR. ANDRE FUTRELL, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: 410-229-2761
MR. MICHAEL PASQUARIELLO, UTILITY ENGINEER
PHONE: 410-229-2341
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. EDWARD RODENHIZER, SUPERVISOR, SIGNAL OPERATIONS
PHONE: (410) 787-7652

2. ALL INTERNAL CABINET WIRING SHALL BE PERFORMED BY THE SHA SIGNAL SHOP. CONTRACTOR SHALL CONTACT ED RODENHIZER 72 HOURS PRIOR TO CONSTRUCTION.

EQUIPMENT LIST

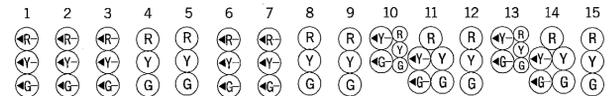
- A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.
NONE.
- B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

QUANTITY	UNITS	DESCRIPTION
LUMP SUM	LS	MAINTENANCE OF TRAFFIC
LUMP SUM	LS	MOBILIZATION
2	LF	NON-INVASIVE PROBE (SET OF 3) WITH 1000 FT. LEAD-IN CABLE
1	EA	12 IN. 3-SECTION LED SIGNAL HEAD (RA,YA,GA) - SPAN
2	EA	30 IN. X 36 IN. R3-5(L) SIGN - SPAN WIRE
5	EA	HANDHOLE
50	LF	5-CONDUCTOR CABLE (NO. 14 AWG)
40	LF	4 IN. PVC CONDUIT [SCHEDULE 80] - BORED
360	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
155	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - BORED
125	LF	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - STOP LINE
LUMP SUM	LS	RELOCATE EXISTING SIGNAL HEAD.
LUMP SUM	LS	REMOVE EXISTING SIGNAL EQUIPMENT.
LUMP SUM	LS	RE-ROUTE EXISTING CABLES (APROX 360 LF).

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"Merging Innovation and Excellence"®

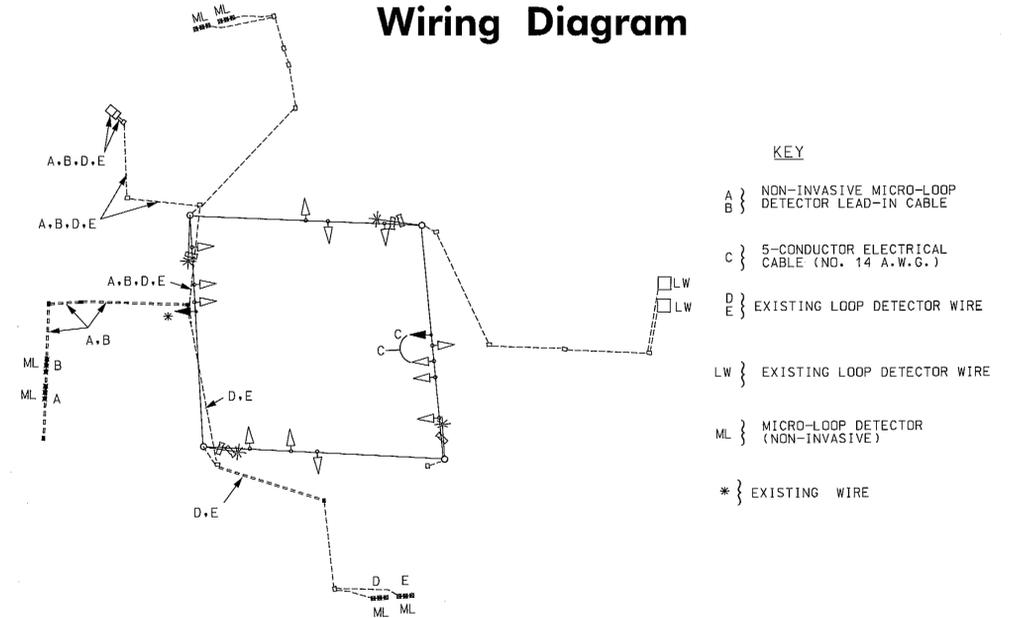
BY: F.Hoeckel

Phase Chart



PHASE 1 AND 5	←G-	←G-	←G-	R	R	←G-	←G-	R	R	R	R	R	R	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6															
PHASE 1 AND 6	←G-	←G-	←G-	G	G	←R-	←R-	R	R	R	R	R	R	R	R
1 CHANGE	←Y-	←Y-	←Y-	G	G	←R-	←R-	R	R	R	R	R	R	R	R
PHASE 2 AND 5	←R-	←R-	←R-	R	R	←G-	←G-	G	G	R	R	R	R	R	R
5 CHANGE	←R-	←R-	←R-	R	R	←Y-	←Y-	G	G	R	R	R	R	R	R
PHASE 2 AND 6	←R-	←R-	←R-	G	G	←R-	←R-	G	G	R	R	R	R	R	R
2 AND 6 CHANGE	←R-	←R-	←R-	Y	Y	←R-	←R-	Y	Y	R	R	R	R	R	R
PHASE 3 AND 7	←R-	←R-	←R-	R	R	←R-	←R-	R	R	←GR	←GR	R	←GR	←GR	R
3 AND 7 CHANGE TO 3 AND 8, 4 AND 7, OR 4 AND 8															
PHASE 3 AND 8	←R-	←R-	←R-	R	R	←R-	←R-	R	R	←GG	←GG	G	R	R	R
3 AND 8 CHANGE	←R-	←R-	←R-	R	R	←R-	←R-	R	R	←YG	←YG	G	R	R	R
PHASE 4 AND 7	←R-	←R-	←R-	R	R	←R-	←R-	R	R	R	R	R	←GG	←GG	G
4 AND 7 CHANGE	←R-	←R-	←R-	R	R	←R-	←R-	R	R	R	R	R	←YG	←YG	G
PHASE 4 AND 8	←R-	←R-	←R-	R	R	←R-	←R-	R	R	G	G	G	G	G	G
4 AND 8 CHANGE	←R-	←R-	←R-	R	R	←R-	←R-	R	R	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/←R-	FL/←R-	FL/←R-	FL/Y	FL/Y	FL/←R-	FL/←R-	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

Wiring Diagram



SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 7 (PHILADELPHI ROAD)
AND MD 543 (RIVERSIDE PKWY/CRESSWELL ROAD)
Bel Air, MARYLAND

GENERAL INFORMATION PLAN

SCALE	NA	DATE	June 7, 2010	CONTRACT NO.	BW996M82
DESIGNED BY	FRANK HOECKEL	COUNTY	HARFORD		
DRAWN BY	FRANK HOECKEL	LOGMILE	1200709.08		
CHECKED BY		TMS NO.	K-175		
F.A.P. NO.	N/A	TOD NO.			
TS NO. GI-2293g	DRAWING	GI-01	OF 01	SHEET NO.	2 OF 2

PLOTTED: Monday, June 07, 2010 AT 07:12 AM
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