F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

MD 543 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

PHASE CHART

	1	2	3	4	5	6	7	8	9	12	11	12
PHASE 1 & 5	◄G-R	◄G-R	R	◄G-R	◄G-R	R	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	R	R	R	◄G-G	◄G-G	G	R	R	R	R	R	R
1 CHANGE	R	R	R	◄Y-G	◄Y-G	G	R	R	R	R	R	R
PHASE 2 & 5	◄G-G	◄G-G	G	R	R	R	R	R	R	R	R	R
5 CHANGE	◄Y-G	◄Y-G	G	R	R	R	R	R	R	R	R	R
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R
PHASE 3 & 7	R	R	R	R	R	R	◄G-R	◄G-R	R	◄G-R	◄G-R	R
3 & 7 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 3 & 8 OR 4 & 7 OR 4 & 8											
PHASE 3 & 8	R	R	R	R	R	R	◄G-G	◄G-G	G	R	R	R
3 CHANGE	R	R	R	R	R	R	◄Y-G	◄Y-G	G	R	R	R
PHASE 4 & 7	R	R	R	R	R	R	R	R	R	◄G-G	◄G-G	G
7 CHANGE	R	R	R	R	R	R	R	R	R	◄Y-G	◄Y-G	G
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y
FLASHING 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

PROJECT DESCRIPTION

I. GENERAL

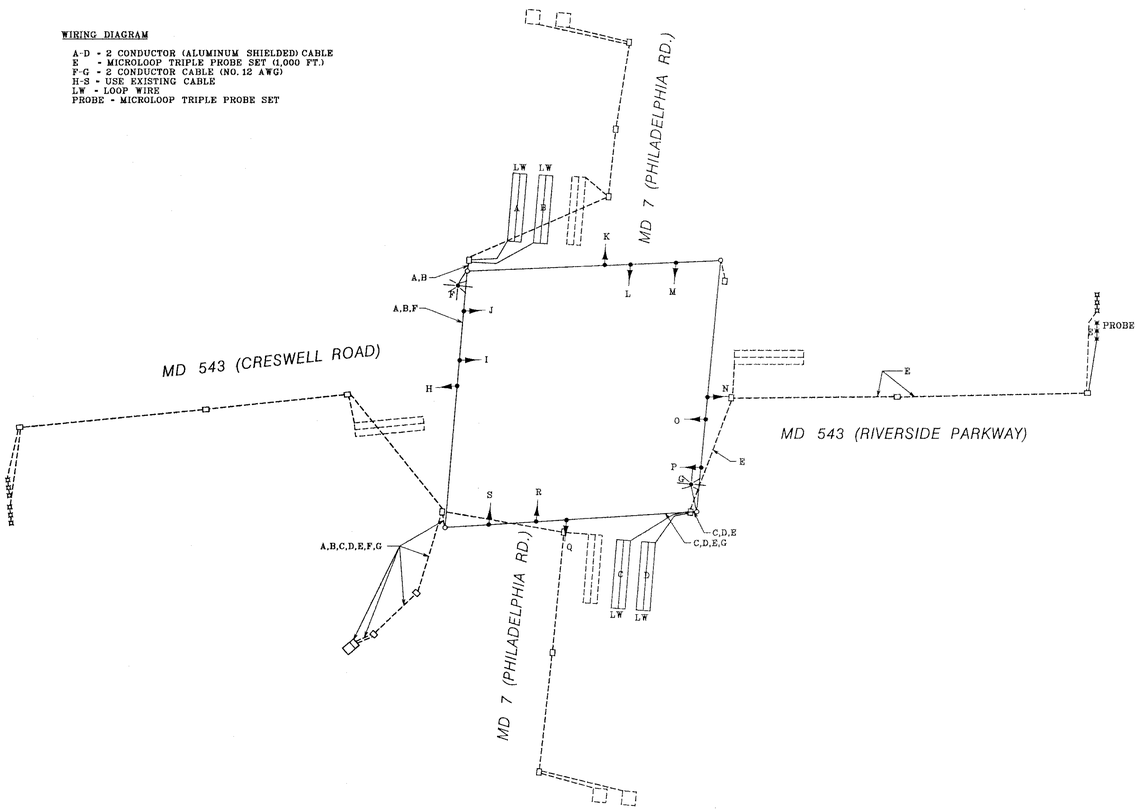
THIS PROJECT INVOLVES SWITCHING THE MAIN LINES FROM MD 7 TO MD 543. MD 543 RUNS IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THERE IS NO CHANGE EXCEPT THAT MD 543 WILL NOW BECOME THE MAIN LINE INSTEAD OF MD 7.

WIRING DIAGRAM

A-D - 2 CONDUCTOR (ALUMINUM SHIELDED) CABLE
E - MICROLOOP TRIPLE PROBE SET (1,000 FT.)
F-G - 2 CONDUCTOR CABLE (NO.12 AWG)
H-S - USE EXISTING CABLE
LW - LOOP WIRE
PROBE - MICROLOOP TRIPLE PROBE SET



A. EQUIPMENT TO BE SUPPLIED BY SHA

ITEM NO.	QUANTITY	DESCRIPTION
	142.5 S.F.	1 EACH ASSOCIATED SHIELD ASSEMBLY SIGN, "SOUTH, MARYLAND 543, (LEFT ARROW)", 48" x 75", POLE MOUNTING HARDWARE
		1 EACH ASSOCIATED SHIELD ASSEMBLY SIGN, "WEST, MARYLAND 7, (LEFT ARROW)", 48" x 75", POLE MOUNTING HARDWARE
		1 EACH ASSOCIATED SHIELD ASSEMBLY SIGN, "EAST, MARYLAND 7, (LEFT ARROW)", 48" x 75", POLE MOUNTING HARDWARE
		1 EACH ASSOCIATED SHIELD ASSEMBLY SIGN, "NORTH, MARYLAND 543, (LEFT ARROW)", 48" x 75", POLE MOUNTING HARDWARE
		1 EACH M3-2 SIGN, "EAST", 24" x 12", M1-5 SIGN, "MARYLAND 7", 24" x 24", M6-2 SIGN, "(RIGHT DIAGONAL ARROW)", 21" x 15", WOOD MOUNTING HARDWARE
		1 EACH M3-3 SIGN, "SOUTH", 24" x 12", M1-5 SIGN, "MARYLAND 543", 30" x 24", M6-2 SIGN, "(RIGHT DIAGONAL ARROW)", 21" x 15", WOOD MOUNTING HARDWARE
		1 EACH M3-1 SIGN, "NORTH", 24" x 12", M1-5 SIGN, "MARYLAND 543", 30" x 24", M6-2 SIGN, "(RIGHT DIAGONAL ARROW)", 21" x 15", WOOD MOUNTING HARDWARE
		1 EACH M3-4 SIGN, "WEST", 24" x 12", M1-5 SIGN, "MARYLAND 7", 24" x 24", M6-2 SIGN, "(RIGHT DIAGONAL ARROW)", 21" x 15", WOOD MOUNTING HARDWARE
	3 EACH	TETHER FOR SIGN TO BE INSTALLED ON 1/4" SPAN WIRE

B. EQUIPMENT TO BE SUPPLIED AND/ OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2001	1 C.Y.	TEST PIT EXCAVATION
5004	185 L.F.	F & I 24" WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5007	185 L.F.	REMOVE EXISTING PAVEMENT MARKINGS - ANY WIDTH
8010	75 L.F.	F & I STEEL SPAN WIRE - 1/4" DIAMETER
8017	1 EACH	F & I MICRO-LOOP TRIPLE PROBE SET WITH 1,000 FT. LEAD-IN
8021	515 L.F.	F & I SAWCUT FOR SIGNAL (LOOP DETECTOR)
8022	75 L.F.	F & I 1" ELECTRICAL CONDUIT - GALVANIZED SLEEVE
8040	1,710 L.F.	F & I LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO.14 AWG)
8041	1,330 L.F.	F & I ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8046	560 L.F.	F & I ELECTRICAL CABLE - 2 CONDUCTOR (NO.12 AWG)
8051	75 L.F.	F & I WOOD SIGN SUPPORTS - 4" x 6"
8052	142.5 S.F.	INSTALL GROUND MOUNTED SIGN
8055	2 EACH	F & I 250 WATT HPS LUMINAIRE WITH PHOTOCELL
8056	2 EACH	F & I 15' LIGHTING BRACKET ARM FOR TRAFFIC SIGNAL STRUCTURE
8060	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
8084	52 EACH	F & I 12" BLACK FACED VECHICULAR TRAFFIC SIGNAL HEAD SECTION
NEG.	3 EACH	INSTALL TETHER ON EXISTING SIGN

REVISIONS	APPROVALS
C. 04/ 2000 - CHANGE MAIN LINE FROM MD 7 TO MD 543 SHA NO. XX1005485	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION: ORIGINAL
B. 01/ 1998 - REPLACE CONTROLLER & CABINET; INSTALL TELEPHONE LINE	ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION: IN
SHA 01 W.A.R. D.A.J. W.A.K. D.R.A. A - 12/ 1990 - PROVIDE E/P L.T. - SIGNALIZE NEW LEG	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION: FILE
D.D. D.A.J. C.T.P. W.A.K.	DIRECTOR, TRAFFIC & SAFETY

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

MD 543 (CRESWELL ROAD/ RIVERSIDE PARKWAY) AND MD 7 (PHILADELPHIA ROAD)
RIVERSIDE, MARYLAND

DRAWN BY: W. Malcolm	F.A.P. NO.: N/A	TS NO. S-2293 C	SHEET NO.
CHECKED BY:	S.H.A. NO.: HA188A57/B57	T.I.M.S. NO. D815	2 OF 2
SCALE: NONE	COUNTY: HARFORD		
DATE: 05/ 2000	LOG MILE 12054300.00		

C:\BILLLIBRARY\WP843.MDN May 18, 2000 12:24:31