

**PROJECT DESCRIPTION**

**GENERAL**  
 This project involves the modification of the existing traffic control signal at MD 124 and Airpark Road in Montgomery County. For this project, a second left turn lane will be added to southbound MD 124. MD 124 is assumed to run in a north-south direction.

**INTERSECTION OPERATIONS**  
 The intersection will operate in a NEMA six phase, semi-actuated mode with the MD 124 approaches running concurrently. The Airpark Road approaches will also run concurrently. Exclusive left turn phasing will be provided on both MD 124 approaches. An alternate pedestrian phase will be provided across all legs of the intersection.

**CONTROLLER REQUIREMENTS**  
 Use existing controller.

**MAINTENANCE OF TRAFFIC**

THE FOLLOWING WORK ZONE TRAFFIC CONTROL STANDARDS SHALL BE USED FOR THE PROJECT:

STANDARD NO. MD-104.48-01  
 (INTERSECTION LEFT LANE/TURN BAY CLOSURE)

STANDARD NO. MD-104.02-01  
 (FLAGGING OPERATION)

STANDARD NO. MD-104.03-01  
 (INTERSECTION FLAGGING)

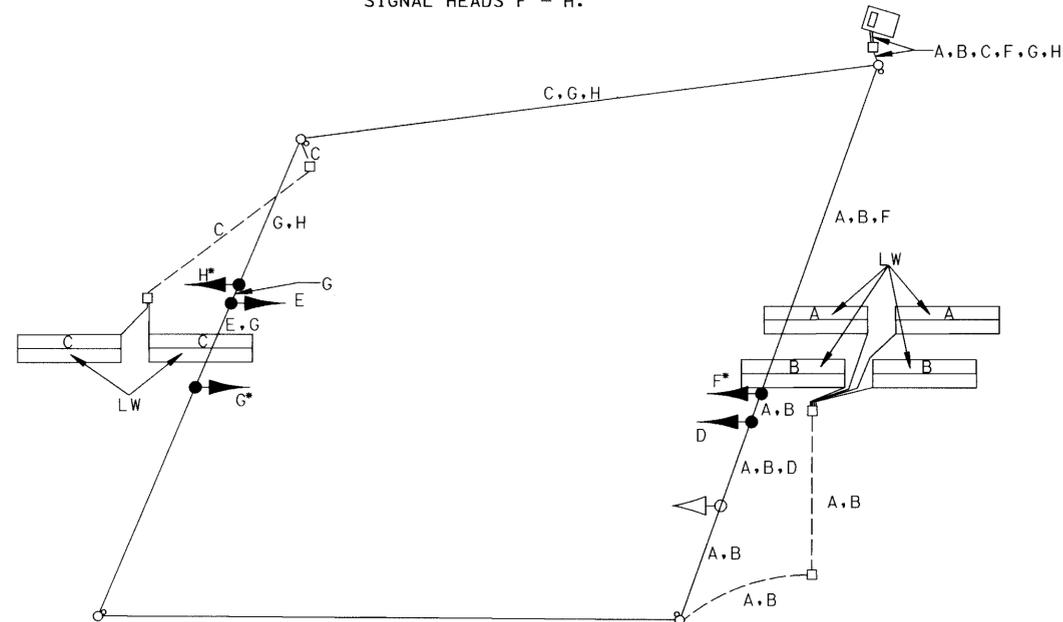
**PHASE CHART**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	(R)	(R)	(Y)	(Y)	(R)															
	(Y)	(Y)	(G)	(G)																
PHASE 1 + 5	-G	-G	R	R	-G	-G	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1 + 5 CHANGE	-Y	-Y	R	R	-Y	-Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 1 + 6	-G	-G	G	G	-R	-R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1 CHANGE	-Y	-Y	G	G	-R	-R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 + 5	-R	-R	R	R	-G	-G	G	G	R	R	R	R	R	R	R	R	R	R	R	R
5 CHANGE	-R	-R	R	R	-Y	-Y	G	G	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 + 6	-R	-R	G	G	-R	-R	G	G	R	R	R	R	R	R	R	R	R	R	R	R
PED. CLEAR	-R	-R	G	G	-R	-R	G	G	R	R	R	R	R	R	R	R	R	R	R	R
2 + 6 CHANGE	-R	-R	Y	Y	-R	-R	Y	Y	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4 + 8	-R	-R	R	R	-R	-R	R	R	G	G	G	G	G	G	G	G	G	G	G	G
4 + 8 CHANGE	-R	-R	R	R	-R	-R	R	R	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
4 & 8 ALT	-R	-R	R	R	-R	-R	R	R	G	G	G	G	G	G	G	G	G	G	G	G
PED. CLEAR	-R	-R	R	R	-R	-R	R	R	G	G	G	G	G	G	G	G	G	G	G	G
4 & 8 CHANGE	-R	-R	R	R	-R	-R	R	R	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R											

**WIRING DIAGRAM**

A-C CANOGA 4-CONDUCTOR ELECTRICAL CABLE (NO.14 A.W.G.) (SHIELDED)  
 D-E 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)  
 LW LOOP WIRE (NO. 14 A.W.G.)

\* NOTE: USE EXISTING 7-CONDUCTOR ELECTRICAL CABLE FROM EXISTING 5-SECTION TRAFFIC SIGNALS TO CONNECT NEW 3-SECTION TRAFFIC SIGNAL HEADS F - H.



**PROJECT CONTACTS**

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

MR. CHARLIE K. WATKINS  
 DISTRICT ENGINEER  
 (301) 513-7311

MR. JOE GECKEL  
 ADE - UTILITY  
 (301) 513-7350

MR. MAJID SHAKIB  
 ADE - TRAFFIC  
 (301) 513-7358

MR. RICHARD L. DAFF, SR.  
 CHIEF, TRAFFIC OPERATIONS DIVISION  
 (301) 787-7630

MR. RANDY BROWN  
 ADE - MAINTENANCE  
 (301) 531-7304

MR. BARRY KING  
 CHIEF, TEDD  
 (410) 787-4011

POWER COMPANY REPRESENTATIVE:

MR. RAYMOND DURANT  
 POTOMAC ELECTRIC POWER COMPANY  
 8300 OLD MARLBORO PIKE  
 UPPER MARLBORO, MARYLAND 20772

**EQUIPMENT LIST B**

EQUIPMENT TO BE FURNISHED OR INSTALLED BY THE CONTRACTOR		EQUIPMENT TO BE FURNISHED OR INSTALLED BY THE CONTRACTOR		EQUIPMENT TO BE FURNISHED OR INSTALLED BY THE CONTRACTOR	
130850	LUMP SUM	MOBILIZATION	585426	33 LF	5 INCH WHITE WATERBORNE TRAFFIC PAINT
120500	LUMP SUM	MAINTENANCE OF TRAFFIC	585443	216 LF	12 INCH WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
862101	2,069 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)	585445	60 LF	24 INCH WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
800000	714 LF	FURNISH AND INSTALL CANOGA 4-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) (SHIELDED)	585448	8 EACH	PERMANENT PREFORMED MARKING ARROW
861107	43 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 5-CONDUCTOR (NO. 14 A.W.G.)	585450	1,750 LF	REMOVE EXISTING PAVEMENT MARKINGS - ANY WIDTH
805160	6 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE	860115	1 EACH	FURNISH AND INSTALL 12 INCH, 1-WAY, 3-SECTION (R,Y,G) BLACK POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
862102	554 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP WIRE)	860117	4 EACH	FURNISH AND INSTALL 12 INCH, 1-WAY, 3-SECTION (RA,YA,GA) BLACK POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
813003	2 EACH	FURNISH AND INSTALL SPAN MOUNTED SIGN HARDWARE	860265	2 EACH	RELOCATE EXISTING SIGNAL HEAD
801605	15 SF	FURNISH AND INSTALL SHEET ALUMINUM SIGN	800000	LUMP SUM	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
801706	23 SF	REMOVE SIGNS FROM EXISTING OVERHEAD STRUCTURE	SHEET ALUMINUM SIGNS: 2 EACH - R3-5, "LEFT ONLY" SIGN (30" x 36") - SPAN WIRE MOUNT		
813006	5 SF	RELOCATE SIGNS FROM EXISTING OVERHEAD STRUCTURES	(TSP-2)		
585407	715 LF	5 INCH WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS			

GREENHORNE & O'MARA, INC.  
 810 GLENEAGLES COURT, SUITE 106  
 BALTIMORE, MARYLAND 21286  
 (410) 583-6700

REVISIONS	APPROVALS	<b>MARYLAND DOT - STATE HIGHWAY ADMINISTRATION</b> <i>Office of Traffic &amp; Safety</i> <b>TRAFFIC ENGINEERING DESIGN DIVISION</b> Traffic Signal General Information Plan MD 124 at Airpark Road	
	ASST. TRAFFIC ENGINEERING DESIGN DIVISION		
	ASST. DISTRICT ENGINEER, TRAFFIC		
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION		
	DIRECTOR, TRAFFIC & SAFETY	DRAWN BY:	F.A.P. NO.
		CHECKED BY:	S.H.A. NO.
		SCALE:	COUNTY:
		DATE:	LOG MILE:
			TS NO. 2248
			T.I.M.S. NO. D-517
			SHEET NO. 2 OF 2