PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 124 (WOODFIELD ROAD) AT CYPRESS HILL DRIVE/RICKENBACKER DRIVE IN MONTGOMERY COUNTY. MD 124 IS ASSUMED TO RUN IN A NORTH SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A SEMI-ACTUATED MODE USING SIX NEMA PHASES. SEMI-ACTUATED MODE WITH THE MD 124 APPROACHES RUNNING CONCURRENTLY. THE RICKENBACKER DRIVE/CYPRESS HILL DRIVE APPROACHES WILL OPERATE SEPERATELY. AN EXCLUSIVE LEFT TURN PHASE WILL BE PROVIDED FOR NORTHBOUND AND SOUTHBOUND MD 124.

PEDESTRIAN OPERATION

NAVIGATOR AUDIBLE PEDESTRIAN PUSHBUTTON MOVEMENTS TO CROSS THE WEST AND SOUTH LEGS OF THE INTERSECTION ARE TO BE PROVIDED.
WHEN THE PEDESTRIAN LOCATES AND PRESSES THE PUSH BUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE:
WEST: "WAIT TO CROSS RICKENBACKER AT WOODFIELD."
SOUTH: "WAIT TO CROSS WOODFIELD AT RICKENBACKER/CYPRESS HILL."

SPECIAL NOTES

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

   PROJECT CONTACTS:

   MR. JEFFREY WENTZ, ASSISTANT DISTRICT ENGINEER - TRAFFIC
   PHONE: (301) 513-7358
   MR. DUANE BERNDARD, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
   PHONE: (301) 513-7336
   MR. WAYNE A. MOWDY, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
   PHONE: (301) 513-7304
   MR. AUGIE REBISH, UTILITY ENGINEER
   PHONE: (301) 513-7350
   MR. ROBERT SNYDER, SR. CHIEF TRAFFIC OPERATIONS DIVISION
   PHONE: (410) 787-7630

   MR. KAMAL HAMUD
   MONTGOMERY COUNTY
   240-777-8761

   MR. STEVE CUSTER
   PEPCO CUSTOMER DESIGN
   201 W. GUIDE DR.
   ROCKVILLE, MD 20850
   PHONE: (301) 548-4333

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL: 104.00 - 30, 104.12 - 01, 104.13 - 01, 104.31 - 01, 104.32 - 01, 104.81- 02

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
973023	FLAT SHEET ALUMINUM SIGNS CONSISTING OF: R3-5(L) (30"X36") MAST ARM MOUNT - 5 EACH	SF	38

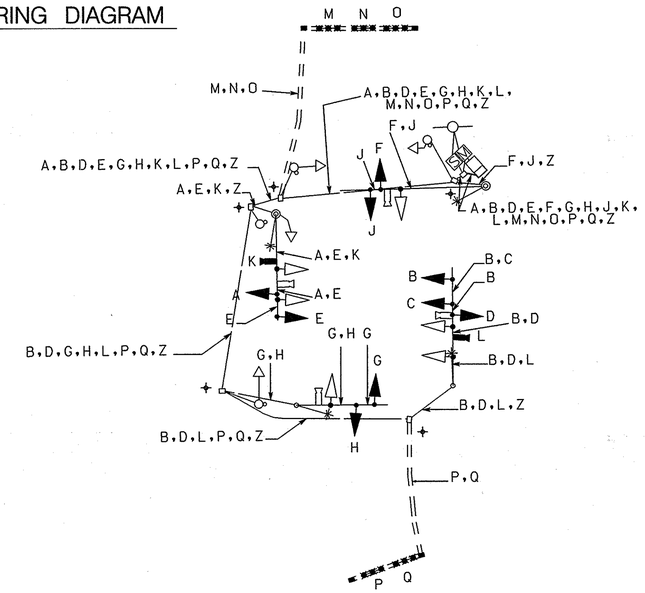
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
120500	MAINTENANCE OF TRAFFIC	EA	1
585452	24 INCH WHITE PERMANENT PREFORMED PAVEMENT MARKINGS	LF	210
805115	3" SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	100
805125	3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	120
810601	NON-INVASIVE DETECTOR, 500 FOOT LEAD IN CABLE	EA	5
813015	INSTALL OVERHEAD SIGN	SF	38
816001	VIDEO DETECTION CAMERA	EA	2
816010	VIDEO DETECTION CABLE, 500 FT	EA	2
860284	12" VEHICULAR LED TRAFFIC SIGNAL HEAD SECTION	EA	31
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	20
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	2600

WIRING DIAGRAM

KEY

A,B,D,E,F,G,H,J	7 - CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
C	5 - CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
K,L	VIDEO DETECTION CONTROL CABLE
Z	1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
M,N,O,P,Q	NON-INVASIVE PROBES LEAD IN CABLE



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
										R	R		R	R					
	4R	4R	4R	R	R	4R	4R	R	R	Y	Y	R	Y	Y	R				
	4Y	4Y	4Y	Y	Y	4Y	4Y	Y	Y	G	G	Y	G	G	Y				
	4G	4G	4G	G	G	4G	4G	G	G	4G	4G	G	4G	4G	G	A	B	A	B
PHASE 1 AND 5	4G	4G	4G	R	R	4G	4G	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 AND 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 1 AND 6 OR 2 AND 5 OR 2 AND 6																		
PHASE 1 AND 6	4G	4G	4G	G	G	4R	4R	R	R	R	R	G	R	R	R	DW	DW	DW	DW
1 CHANGE	4Y	4Y	4Y	Y	Y	4R	4R	R	R	R	R	G	R	R	R	DW	DW	DW	DW
PHASE 2 AND 5	4R	4R	4R	R	R	4G	4G	G	G	R	R	G	R	R	R	DW	DW	DW	DW
5 CHANGE	4R	4R	4R	R	R	4Y	4Y	Y	Y	R	R	G	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6	4R	4R	4R	G	G	4R	4R	G	G	R	R	R	R	R	R	WK	WK	DW	DW
PED CLEARENCE	4R	4R	4R	G	G	4R	4R	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
2 AND 6 CHANGE	4R	4R	4R	Y	Y	4R	4R	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3	4R	4R	4R	R	R	4R	4R	R	R	R	R	G/4G	G/4G	G		DW	DW	DW	DW
PHASE 3 CHANGE	4R	4R	4R	R	R	4R	4R	R	R	R	R	Y	Y	Y		DW	DW	DW	DW
PHASE 4	4R	4R	4R	R	R	4R	4R	R	R	G/4G	G/4G	G	R	R	R	DW	DW	DW	DW
PHASE 4 CHANGE	4R	4R	4R	R	R	4R	4R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW
PHASE 4 ALT	4R	4R	4R	R	R	4R	4R	R	R	G/4G	G/4G	G	R	R	R	WK	WK	DW	DW
PED CLEARENCE	4R	4R	4R	R	R	4R	4R	R	R	G/4G	G/4G	G	R	R	R	FL/DW	FL/DW	DW	DW
4 ALT CHANGE	4R	4R	4R	R	R	4R	4R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW
FLASHING OPERATION	FL/4R	FL/4R	FL/4R	FL/Y	FL/Y	FL/4R	FL/4R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK

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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 124 (WOODFIELD RD) AND CYPRESS HILL DRIVE /RICKENBACKER DRIVE

FINAL PLAN

GENERAL INFORMATION SHEET

SCALE 1" = 20' DATE N/A CONTRACT NO. M06325171

DESIGNED BY AH COUNTY MONTGOMERY
DRAWN BY AF LOGMILE 15012407.96
CHECKED BY JFL TIMS NO. H097
FAP NO. TOD NO.

TS NO. 4104-A | DRAWING SP-24 OF 39 | SHEET NO. 282 OF 377

PLOTTED: "02:59 PM on Tuesday, March 04, 2008"
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BY: Aaron Hottenstein Division: 0101 Transportation