PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE CONSTRUCTION OF A TEMPORARY SIGNAL AT THE INTERSECTION OF MD 355 AND MONTROSE ROAD/RANDOLPH ROAD IN MONTGOMERY COUNTY. MD 355 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A SEMI ACTUATED MODE USING SIX NEMA PHASES. AN EXCLUSIVE LEFT TURN PHASE WILL BE PROVIDED FOR NORTHTHBOUND MD 355. EASTBOUND MONTROSE ROAD AND WESTBOUND RANDOLPH ROAD.

PEDESTRIAN OPERATION

PEDESTRIAN PHASES ACROSS THE WEST LEG WILL RUN CONCURRENTLY WITH PHASE 2 AND 6. A PEDESTRIAN PHASE WILL BE PROVIDED ACROSS THE NORTH LEG WITH PHASES 4 AND 8.

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. VERNON STINNETT, 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
900000	TRAFFIC SIGNAL CABINET AND CONTROLLER		
900000	VIDEO INTERFACE EQUIPMENT FOR 5-8 CAMERAS		
973023	FLAT SHEET ALUMINUM SIGNS CONSISTING OF: ASSOCIATED SHIELD ASSEMBLY (30" X 51") BAND TO POLE-2 EACH ASSOCIATED SHIELD ASSEMBLY (48" X 75") BAND TO POLE-2 EACH PED. SIGN R10-3(1), (9"X15") - 2 EACH M3-1 (24"X12")-1 EACH M1-5 (30"X24")-1 EACH M6-1 (21"X15")-1 EACH	SF	83

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

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
120500	MAINTENANCE OF TRAFFIC	LS	1
114035	12 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT	LF	106
114045	24 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT	LF	50
800000	METERED SERVICE PEDESTAL	EA	1
800000	BAND SIGNS TO POLE	EA	8
800000	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT	LS	1
801607	INSTALL SHEET ALUMINUM SIGN	SF	83
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	20
816005	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	2
816010	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	2
861105	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	750
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	3700
861116	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	LF	600

WIRING DIAGRAM

KEY

A,B,C,D,E,F,G,H, J,K,L,M,N,O,P,Q } 5 - CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

DD,EE,GG,HH } 2 - CONDUCTOR ELECTRICAL CABLE (NO 12 AWG) TRAY CABLE

V,W,X } 2 - CONDUCTOR ELECTRICAL CABLE (NO 14 AWG)

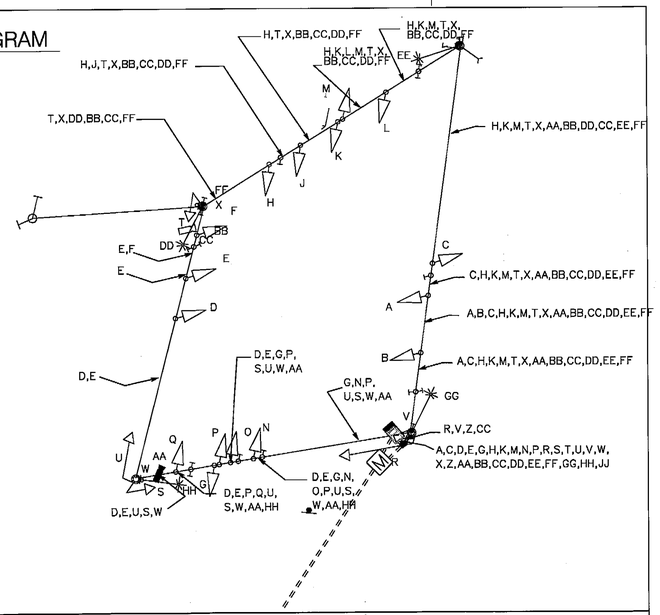
R,S,T,U } 5 - CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG)

AA,BB,CC } VIDEO DETECTION CONTROL CABLE

Z } 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE

JJ } 12-PAIR JELLY FILLED INTERCONNECT CABLE

NOTE: CONTRACTOR TO REROUTE ALL CABLES TO THE EXISTING SIGNAL CONTROLLER.



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	RR RY RG	RR RY RG	R Y G	R Y G	R Y G	R Y G	RR RY RG	RR RY RG	RR RY RG	R Y G	R Y G	RR RY RG	RR RY RG	RR RY RG	R Y G	R Y G	DW FDW DARK	DW FDW DARK	DW FDW DARK	DW FDW DARK
PHASE 2 AND 5	◄-	◄-	G	G	R	R	◄-	◄-	◄-	R	R	◄-	◄-	◄-	R	R	DW	DW	DW	DW
PHASE 2 AND 5 CHANGE	◄/-	◄/-	G	G	R	R	◄-	◄-	◄-	R	R	◄-	◄-	◄-	R	R	DW	DW	DW	DW
PHASE 2 AND 6	◄-	◄-	G	G	G	G	◄-	◄-	◄-	R	R	◄-	◄-	◄-	R	R	WK	WK	DW	DW
PEDESTRIAN CLEARANCE	◄-	◄-	G	G	G	G	◄-	◄-	◄-	R	R	◄-	◄-	◄-	R	R	FLDW	FLDW	DW	DW
PHASE 2 AND 6 CHANGE	◄-	◄-	Y	Y	Y	Y	◄-	◄-	◄-	R	R	◄-	◄-	◄-	R	R	DW	DW	DW	DW
PHASE 3 AND 7	◄-	◄-	R	R	R	R	◄-	◄-	◄-	R	R	◄-	◄-	◄-	R	R	DW	DW	DW	DW
PHASE 3 AND 7 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 3 & 8 OR 4 & 7 OR 4 & 8																			
PHASE 3 AND 8	◄-	◄-	R	R	R	R	◄-	◄-	◄-	R	R	◄-	◄-	◄-	G	G	DW	DW	DW	DW
PHASE 3 AND 8 CHANGE	◄-	◄-	R	R	R	R	◄-	◄-	◄-	R	R	◄/-	◄/-	◄/-	Y	Y	DW	DW	DW	DW
PHASE 4 AND 7	◄-	◄-	R	R	R	R	◄-	◄-	◄-	G	G	◄-	◄-	◄-	R	R	DW	DW	DW	DW
PHASE 4 AND 7 CHANGE	◄-	◄-	R	R	R	R	◄/-	◄/-	◄/-	Y	Y	◄-	◄-	◄-	R	R	DW	DW	DW	DW
PHASE 4 AND 8	◄-	◄-	R	R	R	R	◄-	◄-	◄-	G	G	◄-	◄-	◄-	G	G	DW	DW	DW	DW
PHASE 4 AND 8 CHANGE	◄-	◄-	R	R	R	R	◄-	◄-	◄-	Y	Y	◄-	◄-	◄-	Y	Y	DW	DW	DW	DW
PHASE 4 AND 8 ALT.	◄-	◄-	R	R	R	R	◄-	◄-	◄-	G	G	◄-	◄-	◄-	G	G	DW	DW	WK	WK
PEDESTRIAN CLEARENCE	◄-	◄-	R	R	R	R	◄-	◄-	◄-	G	G	◄-	◄-	◄-	G	G	DW	DW	FDW	FDW
PHASE 4 AND 8 CHANGE	◄-	◄-	R	R	R	R	◄-	◄-	◄-	Y	Y	◄-	◄-	◄-	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	◄FR	◄FR	FY	FY	FY	FY	◄FR	◄FR	◄FR	FR	FR	◄FR	◄FR	◄FR	FR	FR	DARK	DARK	DARK	DARK

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BY: Ardalan Faghri Division: 0101 Transportation

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

MD 355 AT MONTROSE RD /RANDOLPH RD

PHASE 2, STAGE 3

GENERAL INFORMATION SHEET

SCALE NONE DATE N/A CONTRACT NO. M08305171

DESIGNED BY AMH COUNTY MONTGOMERY
DRAWN BY AF LOGMILE 15035506.70
CHECKED BY JFL 3/2/09 TIMS NO. G248
FAP NO. AC-STP-HP-1334(001)E TOD NO.

TS NO. 26920 | DRAWING SP - 10 OF 41 | SHEET NO. 14 OF 84

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