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.

PEDESTRIAN OPERATION

PEDESTRIAN PHASES ACROSS THE EAST AND WEST LEGS WILL RUN CONCURRENTLY ONLY ON PHASE 2 AND 6.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A SEMI ACTUATED MODE USING SIX NEMA PHASES. AN EXCLUSIVE LEFT TURN PHASE WILL BE PROVIDED FOR NORTHBOUND MD 355 AND WESTBOUND RANDOLPH ROAD. THE EXPECTED DURATION FOR THIS TRAFFIC SIGNAL IS ONE WEEK.

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
816110	TRAFFIC SIGNAL CABINET NEMA SIZE 6	EA	1
900000	TRAFFIC SIGNAL CONTROLLER WITH VIDEO DETECTION INTERFACE EQUIPMENT,(FOR 4-5 CAMERAS).	EA	1
973023	FLAT SHEET ALUMINUM SIGNS CONSISTING OF: R3-5(L) (30"X 36") SPAN WIRE MOUNT - 2 EACH D3-1(1) (96" X 16) SPAN WIRE MOUNT - 3 EACH (DUAL FACED) R10-4(1)(9"X12") POLE MOUNT - 3 EACH ASSOCIATED SHIELD ASSEMBLY (30"X51") POLE MOUNT - 1 EACH SPECIAL (48"X36") SPAN WIRE MOUNT SIGN - 1 EACH	SF	72

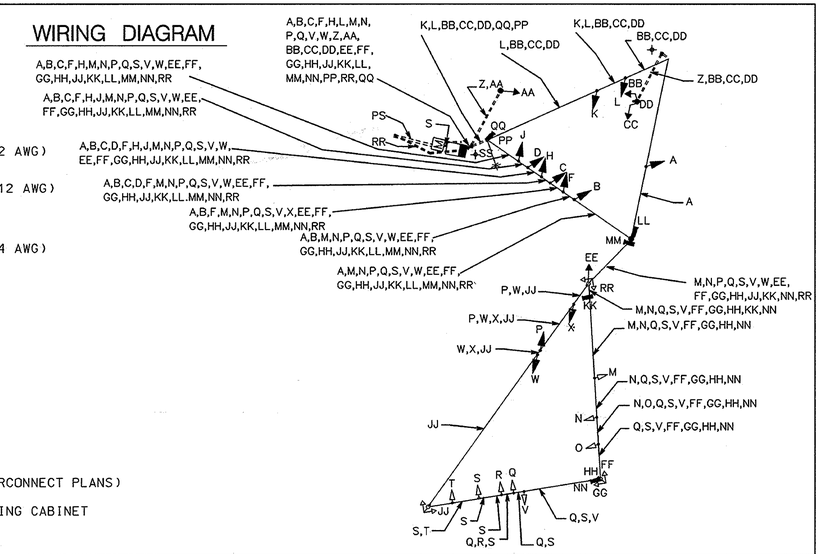
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
120500	MAINTENANCE OF TRAFFIC	LS	1
203030	TEST PIT EXCAVATION	CY	6
114045	24 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT	LF	120
114035	12 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT	LF	220
114245	24" WHITE REMOVABLE PREFORMED PAVEMENT MARKING	LF	160
800000	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION POLE MOUNT	EA	8
800000	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 12 AWG)	LF	3300
800000	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	LF	410
800000	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT	LS	1
801004	CONCRETE FOR SIGNAL FOUNDATION	CY	11
801607	INSTALL SHEET ALUMINUM SIGN	SF	13
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	550
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	120
807202	METERED SERVICE PEDESTAL	EA	1
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	2
813010	BAND SIGN TO SIGN SUPPORT	EA	7
813015	INSTALL OVERHEAD SIGNS	SF	59
816001	VIDEO DETECTION CAMERA	EA	5
816050	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	5
818009	14 IN. X 32 FT. STRAIN POLE (2 PLY)	EA	2
818004	10 FOOT BREAKAWAY PEDESTAL POLE	EA	2
831010	250 WATT HPS LAMP AND LUMINAIRE	EA	1
832017	ELECTRICAL CABLE - 1 CONDUCTOR, NO 4 AWG, TYPE USE, 600V	LF	60
833062	4 INCH DIAMETER POLYVINYL CHLORIDE CONDUIT, SCHEDULE 80, RISER	LF	40
837001	GROUND ROD - 3/4 INCH DIAMETER X 10-FOOT LENGTH	EA	2
860284	12" VEHICULAR LED TRAFFIC SIGNAL HEAD SECTION (POLY CARBONATE)	EA	42
861105	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	240
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	1800
866101	10 FOOT LIGHTING ARM ON SIGNAL STRUCTURE	EA	1
869101	STEEL SPAN WIRE - 1/4 INCH DIAMETER	LF	675
869102	STEEL SPAN WIRE - 3/8 INCH DIAMETER	LF	720
871202	INSTALL CONTROLLER AND CABINET - BASE MOUNT	EA	1

KEY

A,B,C,D,F,H,J,K,O,R,T,AA,BB,CC,EE,RR	5 - CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
HH,PP	2 - CONDUCTOR ELECTRICAL CABLE (NO 12 AWG)
M,N,P,Q,S,V,W,FF,JJ,GG	5 - CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG)
DD	2 - CONDUCTOR ELECTRICAL CABLE (NO 14 AWG)
KK,LL,MM,NN,QQ	VIDEO DETECTION CONTROL CABLE
Z	1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
S	POWER SERVICE UNDERGROUND 3 WIRE 1 CONDUCTOR (NO.4 AWG)
⌖	GROUND ROD
PS	POWER SOURCE(3-250 KCMIL CABLES)
RR	12-PAIR INTERCONNECT CABLE (SEE INTERCONNECT PLANS)
SS	LUMINAIRE WIRED FROM TEMPORARY LIGHTING CABINET

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	12A	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
PHASE 2 AND 5	G	G	G	G	R	R	BAGGED IN THIS PHASE	R	BAGGED IN THIS PHASE	R	R	G	G	G	G	G	R	R	R	R	R	W	W	DW	DW	DW	DW	DW	DW
PHASE 2 CHANGE	Y	Y	G	G	R	R		R		R	R	G	G	G	G	G	R	R	R	R	R	W	W	DW	DW	DW	DW	DW	DW
PHASE 2 OVERLAP	Y	Y	G	G	R	R		R		R	R	Y	Y	Y	Y	Y	R	R	R	R	R	W	W	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	R	R	G	G	G	G		R		R	R	R	R	R	R	R	R	R	R	R	R	W	W	DW	DW	DW	DW	W	W
PEDESTRIAN CLEARANCE	R	R	G	G	G	G		R		R	R	R	R	R	R	R	R	R	R	R	R	FDW	FDW	DW	DW	DW	DW	FDW	FDW
PHASE 2 AND 6 CHANGE	R	R	Y	Y	Y	Y		R		R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	R	R	R	R	R	R		G		G	G	R	R	R	G	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8 CHANGE	R	R	R	R	R	R		G		G	G	R	R	R	G	G	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
ALT PHASE 4 AND 8	R	R	R	R	R	R		G		G	G	R	R	R	G	G	G	G	G	G	G	DW	DW	W	W	W	W	DW	DW
PED CLEARENCE	R	R	R	R	R	R		G		G	G	R	R	R	G	G	G	G	G	G	G	DW	DW	FDW	FDW	FDW	FDW	DW	DW
ALT PHASE 4 AND 8 CHANGE	R	R	R	R	R	R		Y		Y	Y	R	R	R	G	G	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 7	R	R	R	R	R	R		G		G	G	G	G	G	G	G	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 7 CHANGE	R	R	R	R	R	R		Y		Y	Y	G	G	G	G	G	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 7 OVERLAP	R	R	R	R	R	R		R		R	R	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FR	FR	FY	FY	FY	FY		FR		FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

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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 1, STAGE 2

GENERAL INFORMATION SHEET

SCALE NONE DATE CONTRACT NO. M08305171

DESIGNED BY AMH COUNTY MONTGOMERY
DRAWN BY AF LOGMILE 6.0-7.0
CHECKED BY JFL TIMS NO. G248
FAP NO. AC-STP-HP-1334(001)E TOD NO.

TS NO. 2692C | DRAWING SP-2 OF 5 | SHEET NO. 2 OF 109

PLOTTED: "10:05 AM on Tuesday, July 22, 2008"
FILE: M:\2007\01070770.db\drawings\pSG-N1201_MD355.dgn
BY: Aaron Hottenstein Division: 0101 Transportation