PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE REPLACEMENT OF PRESENCE AND SAMPLING DETECTION AT THE INTERSECTION OF MD 97 (GEORGIA AVENUE) AND RANDOLPH ROAD IN MONTGOMERY COUNTY, DUE TO THE RESURFACING AND SAFETY IMPROVEMENTS TO MD 97. APS WILL BE INSTALLED TO CROSS ALL LEGS OF THE INTERSECTION AND LED COUNTDOWN PEDESTRIAN SIGNAL HEADS WILL REPLACE THE EXISTING PEDESTRIAN SIGNAL HEADS. ALL EXISTING VEHICULAR TRAFFIC SIGNAL HEADS WILL REMAIN. MD 97 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA EIGHT-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE LEFT TURN PHASING FOR ALL APPROACHES. THE CONCURRENT MAINLINE PEDESTRIAN PHASE AND ALTERNATIVE SIDE STREET PHASES WILL REMAIN. THE PRE-EMPTION PHASE FOR THE FIREHOUSE WILL ALSO REMAIN.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CONTROLLER SHALL REMAIN. THE EXISTING LOOP DETECTOR AMPLIFIERS AND HARNESSES WILL REMAIN. THE EXISTING POLE MOUNTED CABINETS WILL REMAIN. THE SHA SIGNAL SHOP WILL INSTALL A 2-WIRE CENTRAL CONTROL UNIT WITHIN THE CABINET.

PHONE DROP

THE CONTRACTOR SHALL NOTIFY MR. KAMAL HAMUD OF MONTGOMERY COUNTY AT 240-777-8761 FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. HAMUD WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

Mr. Jeff Wentz
Assistant District Engineer - Traffic
Phone: 301-513-7358

Mr. Augie Rebish
Assistant District Engineer - Utility
Phone: 301-513-7350

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
Phone: 301-513-7304

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

The Power Company Representative is:
Potomac Electric Power Company
8300 Old Marlboro Pike
Upper Marlboro, Maryland 20772
Phone: 301-961-5325

Mr. Kamal Hamud
Montgomery County Department of Public Works
Phone: 240-777-8761

Mr. Keith Lord
Montgomery County
Phone: 301-279-1291

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
973023	62 SF	SHEET ALUMINUM SIGNS:
		4 EA - R10-4(I)MOD, (9 IN. X 15 IN.) POLE MOUNT, "PUSH BUTTON TO CROSS GEORGIA AVENUE"
		4 EA - R10-4(I)MOD, (9 IN. X 15 IN.) POLE MOUNT, "PUSH BUTTON TO CROSS RANDOLPH ROAD"
		1 EA - ASSOCIATED SHIELD ASSEMBLY "NORTH, MD 97, LEFT ARROW" (36 IN. X 75 IN.)
		1 EA - ASSOCIATED SHIELD ASSEMBLY "SOUTH, MD 97, LEFT ARROW" (36 IN. X 75 IN.)
		1 EA - ASSOCIATED SHIELD ASSEMBLY "NORTH, MD 97, RIGHT ARROW" (24 IN. X 51 IN.)
		1 EA - ASSOCIATED SHIELD ASSEMBLY "SOUTH, MD 97, RIGHT ARROW" (24 IN. X 51 IN.)

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
203030	6 CY	TEST PIT EXCAVATION
585412	350 LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
585424	50 LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
585462	50 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
655105	75 SF	5 INCH CONCRETE SIDEWALK
655120	70 LF	DETECTABLE WARNING SURFACE
800000	1 EA	2-WIRE CENTRAL CONTROL UNIT
800000	1 EA	3 INCH PVC CONDUIT BEND IN EXISTING FOUNDATION
800000	8 EA	ACCESSIBLE PEDESTRIAN PUSHBUTTON
800000	8 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION - POLE MOUNT
800000	1 LS	REMOVE AND DISPOSE OF TRAFFIC SIGNAL EQUIPMENT
801004	6 CY	CONCRETE FOR SIGNAL FOUNDATION
801106	40 LF	WOOD SIGN SUPPORTS 4 IN. X 6 IN.
802501	95 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805135	70 LF	3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
805150	25 LF	3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - SLOTTED
805160	50 LF	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
811001	1 EA	ELECTRICAL HANDHOLE
813014	17 SF	INSTALL GROUND MOUNTED SIGN
813015	45 SF	INSTALL OVERHEAD SIGN
818005	6 EA	10 FOOT BREAKAWAY PEDESTAL POLE
837001	1 EA	GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
860292	1 EA	CUT, CLEAN, GALVANIZE, AND CAP TRAFFIC SIGNAL STRUCTURE
861104	335 LF	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
861105	1885 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	1760 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
862101	770 LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
862102	200 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
PHASE 1 & 5	~~G~~	R	~~G~~	R	R	~~G~~	R	~~G~~	R	R	~~R~~	R	~~R~~	~~R~~	R	R	~~R~~	R	~~R~~	~~R~~	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO: 1 & 6, 2 & 5, OR 2 & 6																														
PHASE 1 & 6	~~G~~	G	~~G~~	G	G	~~R~~	R	~~R~~	R	R	~~R~~	R	~~R~~	~~R~~	R	R	~~R~~	R	~~R~~	~~R~~	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 1 CHANGE	~~Y~~	G	~~Y~~	G	G	~~R~~	R	~~R~~	R	R	~~R~~	R	~~R~~	~~R~~	R	R	~~R~~	R	~~R~~	~~R~~	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 & 5	~~R~~	R	~~R~~	R	R	~~G~~	G	~~G~~	G	G	~~R~~	R	~~R~~	~~R~~	R	R	~~R~~	R	~~R~~	~~R~~	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 5 CHANGE	~~R~~	R	~~R~~	R	R	~~Y~~	G	~~Y~~	G	G	~~R~~	R	~~R~~	~~R~~	R	R	~~R~~	R	~~R~~	~~R~~	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	~~R~~	G	~~R~~	G	G	~~R~~	G	~~R~~	G	G	~~R~~	R	~~R~~	~~R~~	R	R	~~R~~	R	~~R~~	~~R~~	R	R	R	W	W	W	W	DW	DW	DW	DW
PED. CLEARANCE / COUNTDOWN	~~R~~	G	~~R~~	G	G	~~R~~	G	~~R~~	G	G	~~R~~	R	~~R~~	~~R~~	R	R	~~R~~	R	~~R~~	~~R~~	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
PHASE 2 & 6 CHANGE	~~R~~	Y	~~R~~	Y	Y	~~R~~	Y	~~R~~	Y	Y	~~R~~	R	~~R~~	~~R~~	R	R	~~R~~	R	~~R~~	~~R~~	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 & 7	~~R~~	R	~~R~~	R	R	~~R~~	R	~~R~~	R	R	~~G~~	R	~~G~~	~~G~~	R	R	~~G~~	R	~~G~~	~~G~~	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 & 7 CHANGE	THE CONTROLLER MAY SKIP TO: 3 & 8, 4 & 7, OR 4 & 8																														
PHASE 3 & 8	~~R~~	R	~~R~~	R	R	~~R~~	R	~~R~~	R	R	~~R~~	R	~~R~~	~~R~~	R	R	~~G~~	G	~~G~~	~~G~~	G	G	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 CHANGE	~~R~~	R	~~R~~	R	R	~~R~~	R	~~R~~	R	R	~~R~~	R	~~R~~	~~R~~	R	R	~~Y~~	G	~~Y~~	~~Y~~	G	G	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 7	~~R~~	R	~~R~~	R	R	~~R~~	R	~~R~~	R	R	~~G~~	G	~~G~~	~~G~~	G	G	~~R~~	R	~~R~~	~~R~~	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 7 CHANGE	~~R~~	R	~~R~~	R	R	~~R~~	R	~~R~~	R	R	~~Y~~	G	~~Y~~	~~Y~~	G	G	~~R~~	R	~~R~~	~~R~~	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 8	~~R~~	R	~~R~~	R	R	~~R~~	R	~~R~~	R	R	~~R~~	G	~~R~~	~~R~~	G	G	~~R~~	G	~~R~~	~~R~~	G	G	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 8 CHANGE	~~R~~	R	~~R~~	R	R	~~R~~	R	~~R~~	R	R	~~R~~	Y	~~R~~	~~R~~	Y	Y	~~R~~	Y	~~R~~	~~R~~	Y	Y	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 8 ALT.	~~R~~	R	~~R~~	R	R	~~R~~	R	~~R~~	R	R	~~R~~	G	~~R~~	~~R~~	G	G	~~R~~	G	~~R~~	~~R~~	G	G	R	DW	DW	DW	DW	W	W	W	W
PED. CLEARANCE / COUNTDOWN	~~R~~	R	~~R~~	R	R	~~R~~	R	~~R~~	R	R	~~R~~	G	~~R~~	~~R~~	G	G	~~R~~	G	~~R~~	~~R~~	G	G	R	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
PHASE 4 & 8 ALT. CHANGE	~~R~~	R	~~R~~	R	R	~~R~~	R	~~R~~	R	R	~~R~~	Y	~~R~~	~~R~~	Y	Y	~~R~~	Y	~~R~~	~~R~~	Y	Y	R	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/RA	FL/Y	FL/RA	FL/Y	FL/Y	FL/RA	FL/Y	FL/RA	FL/Y	FL/Y	FL/RA	FL/R	FL/RA	FL/RA	FL/R	FL/R	FL/RA	FL/R	FL/RA	FL/RA	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK
PRE-EMPTION 1	~~R~~	R	~~R~~	R	R	~~R~~	R	~~R~~	R	R	~~R~~	R	~~R~~	~~R~~	R	R	~~R~~	R	~~R~~	~~R~~	R	R	FL/R	DW	DW	DW	DW	DW	DW	DW	DW
PRE-EMPTION 1 CHANGE	~~R~~	R	~~R~~	R	R	~~R~~	R	~~R~~	R	R	~~R~~	R	~~R~~	~~R~~	R	R	~~R~~	R	~~R~~	~~R~~	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO	QUANTITY	DESCRIPTION

NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

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

MD 97 (GEORGIA AVENUE) AND RANDOLPH ROAD

GENERAL INFORMATION - 01

SCALE NONE DATE 12/2006 CONTRACT NO. MO5665177

DESIGNED BY MCG
DRAWN BY MCG
CHECKED BY BAB
F.A.P. NO.
COUNTY MONTGOMERY
LOGMILE 15009704.64
T.I.M.S. NO. H326
TOD NO.

DRAWING NO. TS-2392H OF SHEET NO. OF

STV Incorporated
engineers / architects / planners / construction managers
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

PLOTTED: THURSDAY, DECEMBER 14, 2006 AT 11:06 AM
FILE: I:\PROJECTS\0312513\0312513.0010\DRAWINGS\TRA\TRAFFIC\RANDOLPH ROAD\PSG-P001_RANDOLPH.DGN

BY: WEAVERCC

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