

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE ADDITION OF VIDEO DETECTION CAMERAS, APS PUSHBUTTONS & SIGNS, REPLACEMENT OF ALL VEHICULAR SIGNAL HEADS WITH LED SIGNAL HEADS, REPLACEMENT OF THE EXISTING ADVANCE DETECTION LOOPS ALONG EAST-BOUND MD 245, AND THE REPLACEMENT OF EXISTING PEDESTRIAN SIGNAL HEADS WITH LED COUNTDOWN SIGNAL HEADS AT THE INTERSECTION OF MD 5 (POINT LOOKOUT ROAD) AND MD 245 (HOLLYWOOD ROAD) IN ST. MARY'S COUNTY. MD 5 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION CURRENTLY OPERATES IN A NEMA EIGHT-PHASE FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR ALL FOUR APPROACHES, ALTERNATE PEDESTRIAN PHASES FOR THE NORTH & SOUTH LEGS AND CONCURRENT PEDESTRIAN PHASES FOR THE EAST AND WEST LEGS OF THE INTERSECTION.

CONTROLLER REQUIRMENTS

INSTALL A FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER WITH VIDEO DETECTION INTERFACE EQUIPMENT, OPTICOM DISCRIMINATOR MODULE, INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP, FOUR CHANNEL LOOP DETECTOR AMPLIFIER RACK AND ASSOCIATED HARNESS HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET. AN APS CENTRAL CONTROL UNIT WILL BE INSTALLED BY THE CONTRACTOR.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410)787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

PROJECT CONTACTS

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MS. KIMBERLY TRAN  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
(410) 841-1019

MR. CHARLES GEORGE  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
(410) 841-1013

MR. JOHN MAYS  
DISTRICT UTILITY ENGINEER  
(410) 841-1005

CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

MR. RICHARD DAFF, SR.  
CHIEF TRAFFIC OPERATIONS  
(410) 787-7630

MR. ED RODENHIZER  
CHIEF, SIGNAL OPERATIONS  
(410)787-7630

MR. MIKE STOCKER  
SIGNAL SHOP WAREHOUSE  
(410) 787-7696

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF  
TRAFFIC OPERATIONS  
(410) 787-7630

MR. EUGENE BAILEY,  
CHIEF, SIGN OPERATIONS  
(410) 787-7676

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

CATEGORY CODE NO.	DESCRIPTION	UNIT	QUANTITY
900000	VIDEO INTERFACE EQUIPMENT	EA	1
900000	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764	EA	1
963010	FOUR CHANNEL LOOP DETECTOR AMPLIFIER, RACK MOUNT	EA	2
971017	EIGHT PHASE (FULLY ACTUATED) CONTROLLER AND CABINET- BASE MOUNT	EA	1
973023	SHEET ALUMINUM SIGNS - POLE/MAST ARM MOUNT	SF	7.5

CONSISTING OF:

- 2 - R10-4(1) (MOD) (9"X 15" - 'WASHINGTON ST') - POLE MOUNT
- 2 - R10-4(1) (MOD) (9"X 15" - 'HOLLYWOOD RD') - POLE MOUNT
- 4 - R10-4(1) (MOD) (9"X 15" - 'PT. LOOKOUT RD') - POLE MOUNT

EQUIPMENT LIST "B"

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

CATEGORY CODE NO.	DESCRIPTION	UNIT	QUANTITY
203030	TEST PIT EXCAVATION	CY	1
585620	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING	LF	480
585624	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING	LF	40
655104	4 INCH CONCRETE SIDEWALK	SF	70
801004	CONCRETE FOR SIGNAL FOUNDATION	CY	0.5
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	50
805011	1 INCH ELECTRICAL CONDUIT - GALVANIZED SLEEVE	LF	20
805118	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	75
805125	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	40
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	165
805140	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	50
807202	METERED SERVICE PEDESTAL	EA	1
810010	ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG-THHN/THWN	LF	50
810550	MICROLOOP PROBE, 500 FOOT LEAD IN CABLE	EA	2
810601	NONINVASIVE DETECTOR, 500 FOOT LEAD IN CABLE	EA	2
810605	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE	EA	4
810610	NONINVASIVE DETECTOR, CARRIER PIPE	LF	190
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	6
813015	INSTALL OVERHEAD SIGNS	SF	7.5
816001	VIDEO DETECTION CAMERA	EA	4
818004	10 FT. BREAKAWAY PEDESTAL POLE	EA	1
837001	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	5
860288	FURNISH & INSTALL 4 CONDUCTOR OPTICOM CABLE	LF	425
861105	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	1860
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	1975
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	2320
862102	SAW CUT FOR SIGNAL (LOOP DETECTOR)	LF	55
871117	INSTALL EIGHT PHASE (FULLY ACTUATED) CONTROLLER AND CABINET - BASE MOUNT	EA	1
800000	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION	EA	8
800000	8 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	12
800000	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	40
800000	16 INCH LED PEDESTRIAN COUNTDOWN SIGNAL HEAD	EA	8
800000	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT	LS	1
800000	AUDIBLE/TACTILE PEDESTRIAN BASE	EA	1
800000	CONTROL CABLE, 100 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	1
800000	CONTROL CABLE, 200 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	1
800000	CONTROL CABLE, 300 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	1
800000	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	1

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND RETURNED TO SHA.

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

GENERAL NOTES

- VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
- ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- REFER TO PAVEMENT MARKING PLANS FOR ADDITION PAVEMENT MARKING DETAILS AND QUANTITIES.
- REFER TO ROADWAY DESIGN PLANS FOR SIDEWALK RAMP AND DETECTABLE WARNING SURFACE INSTALLATION DETAILS AND QUANTITIES.
- UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER TO COORDINATE AT 410-787-7652.

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 5 (POINT LOOKOUT RD) AND  
MD 245 (HOLLYWOOD RD)/  
MD 5 BUS. (WASHINGTON ST.)  
LEONARDTOWN, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE 9/2006 CONTRACT NO. SMT965184

DESIGNED BY TC COUNTY ST. MARY'S  
DRAWN BY TC LOGMILE 18005028.92  
CHECKED BY DAE TMS NO.  
FAP NO. N/A TOD NO.

**RK & K**  
RUMMEL, KLEPPER & KAHL, LLP  
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TS, NO. TS-80K DRAWING SP-03 OF 03 SHEET NO. 45 OF 79