

**PROJECT DESCRIPTION**

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 261 AND MEARS AVE/HARBOR ROAD IN CALVERT COUNTY. IT IS ASSUMED THAT MD 261 RUNS IN A NORTH-SOUTH DIRECTION.

**INTERSECTION OPERATION**

THIS INTERSECTION CURRENTLY OPERATES IN A NEMA SEVEN-PHASE FULL-TRAFFIC-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR SOUTHBOUND MD 261. PEDESTRIAN PHASES EXIST FOR THE SOUTH LEG (ALTERNATE PHASE). THE EXISTING PEDESTRIAN PHASE ON THE WEST LEG (CONCURRENT PHASE) OF THE INTERSECTION WILL BE REMOVED.

**CONTROLLER REQUIRMENTS**

THE EXISTING TRAFFIC SIGNAL CONTROLLER INCLUDES A FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER WITH INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP AND ASSOCIATED HARNESS HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET. VIDEO DETECTION INTERFACE EQUIPMENT AND A DETECTOR RACK WILL BE INSTALLED FOR THE PROPOSED VIDEO DETECTION.

**PHASE CHART**

	1	2	3	4	5	6	7	8	9	10	11	19	20
PHASE 2 & 5	R	R	G	R	R	R	R	R	R	R	R	DW	DW
2 & 5 CHANGE	R	R	G	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 & 6	G	G	G	G	R	R	R	R	R	R	R	DW	DW
PED CLEARANCE	G	G	G	G	R	R	R	R	R	R	R	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	R	DW	DW
PHASE 3	R	R	R	R	R	R	R	R	R	G	G	DW	DW
3 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	DW	DW
PHASE 4 & 8	R	R	R	R	G	G	G	G	R	R	R	DW	DW
4 & 8 CHANGE	R	R	R	R	Y	Y	Y	Y	Y	R	R	DW	DW
PHASE 4 ALT	R	R	R	R	G	G	G	G	R	R	R	WK	WK
PED CLEARANCE	R	R	R	R	G	G	G	G	R	R	R	FLDW#	FLDW#
4 ALT CHANGE	R	R	R	R	Y	Y	Y	Y	Y	R	R	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	DARK	DARK						

**EQUIPMENT LIST "A"**

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

CATEGORY CODE NO.	DESCRIPTION	UNIT	QUANTITY
900000	VIDEO DETECTION INTERFACE EQUIPMENT 5-8 CAMERAS	EA	1
900000	DETECTION RACK RETROFIT	EA	1

**EQUIPMENT LIST "B"**

B. EQUIPMENT TO BE FURNISHED 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	100
585624	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING	LF	75
801004	CONCRETE FOR SIGNAL FOUNDATION	CY	1
802145	ADJUST EXISTING HANDHOLE	EA	2
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	65
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	10
805155	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED	LF	60
816001	VIDEO DETECTION CAMERA	EA	5
816005	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	5
818004	10 FT. BREAKAWAY PEDESTAL POLE	EA	1
800000	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	21
861105	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	140
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	300
800000	APS PUSHBUTTON, SIGN AND ASSY.	EA	2
800000	16 INCH LED PEDESTRIAN COUNTDOWN SIGNAL HEAD	EA	2
800000	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT	LS	1
800000	AUDIBLE TACTILE PEDESTRIAN BASE	EA	1

**PROJECT CONTACTS**

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

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

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

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

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

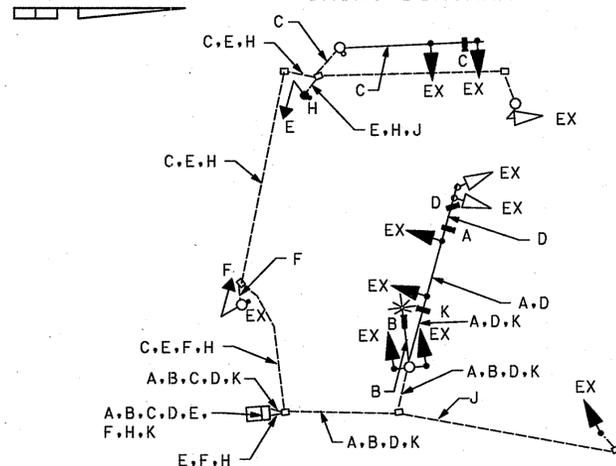
MR. ROBERT SNYDER  
ASSISTANT DIVISION, CHIEF TRAFFIC OPERATIONS  
(410) 787-7630

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

**WIRING KEY**

- A,B,C,D,K VIDEO DETECTION 250 FT. PRE-MANUFACTURED CABLE
- E,F 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- H 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- J STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
- EX USE EXISTING CABLE

**WIRING DIAGRAM**



**EQUIPMENT LIST "C"**

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

NONE

ADDENDUM NO. 2  
3/30/06  
REPLACES SHEET 107

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
**MD 260 (CHESAPEAKE BEACH RD)  
AND MEARS AVE / HARBOR ROAD  
CHESAPEAKE BEACH, MARYLAND**

**RK & K**  
**RUMMEL, KLEPPER & KAHL, LLP**  
CONSULTING ENGINEERS  
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GENERAL INFORMATION SHEET

SCALE	NONE	DATE	12/2005	CONTRACT NO.	CA4815184
DESIGNED BY	HEH	COUNTY	CALVERT		
DRAWN BY	HEH	LOGMILE	04026105.73		
CHECKED BY	DAE	TMS NO.	H420		
FAP NO.	N/A	TOD NO.			
TS NO.	TS-12E	DRAWING	-	OF	SHEET NO. 107A OF 146