

DRILL HOLES
 BORDER REV. DATE: June 1, 2004
 DRILL HOLES
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 BY: \$USER\$NAMES

PROJECT DESCRIPTION

THIS PORTION OF THE PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC SIGNAL AT MD 2-4 (SOLOMONS ISLAND ROAD) AND MD 263 (PLUM POINT RD) IN CALVERT COUNTY. THE SIGNAL WILL BE RECONSTRUCTED IN THREE PHASES. THE FIRST TWO PHASES WILL BE MOT PHASES, UTILIZING EXISTING GEOMETRICS WITH PARTIAL TEMPORARY EQUIPMENT. THE LAST PHASE WILL BE FINAL GEOMETRICS WITH FINAL SIGNAL EQUIPMENT BEING OPERATIONAL AND THEN REMOVING ALL EXISTING EQUIPMENT NO LONGER NEEDED. MD 2-4 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION
 I. NORMAL OPERATION
 THE INTERSECTION WILL OPERATE IN A FOUR PHASE, FULLY TRAFFIC ACTUATED MODE WITH MD 2-4 APPROACHES OPERATING CONCURRENTLY AND MD 263 / SHOPPING PLAZA ENTRANCE APPROACH'S OPERATING SEPARATELY. THERE WILL BE AN E/P LEFT TURN PHASE FOR MD 2-4 SOUTHBOUND TRAFFIC. THE EXISTING MD 2-4 NORTHBOUND LEFT TURN WILL BE ELIMINATED.

CONTROLLER REQUIREMENTS:

AN EXISTING FULLY - TRAFFIC - ACTUATED - EIGHT - PHASE TRAFFIC SIGNAL CONTROLLER IN A BASE - MOUNTED SYSTEM READY CABINET WILL UTILIZED DURING THIS MOT PHASE.

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.

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR:

CATAGORY CODE NO.	SPEC. NO.	QUANTITY	DESCRIPTION
813014	813	70.58 S.F.	INSTALL GROUND MOUNTED SIGN.
813015	813	35.09 S.F.	INSTALL OVERHEAD SIGN.
831010	806	1 EA.	FURNISH AND INSTALL 250 WATT HPS LAMP AND LUMINAIRE
871202	805	1 EA.	INSTALL CONTROLLER AND CABINET - BASE MOUNTED
866104	806	1 EA.	FURNISH AND INSTALL 20 FT. LIGHTING ARM ON SIGNAL STRUCTURE

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY SHA AND INSTALLED BY THE CONTRACTOR:

CATAGORY CODE NO.	SPEC. NO.	QUANTITY	DESCRIPTION
900000	900000	105.67 S.F.	FURNISH SHEET ALUMINUM SIGNS
		- 2 EA	D3-2 SIGN 96"x16"
		- 1 EA	R3-3 SIGN 30"x30"
		- 1 EA	R-3-5(L) SIGN 30"x36"
		- 1 EA	R5-1 SIGN 36"x36"
		- 1 EA	R1-1 SIGN 30"x30"
		- 1 EA	R3-3(4) SIGN 24"x30"
		- 1 EA	R6-1(R) SIGN 36"x12"
		- 1 EA	R4-7(b) SIGN 24"x30"
		- 1 EA	OM-1(i) SIGN 18"x18"
		- 1 EA	ASSOCIATED SHIELD ASSEMBLY *SOUTH, MD 2-4, RIGHT ARROW* (30"x51") - GROUND MOUNT
		- 1 EA	ASSOCIATED SHIELD ASSEMBLY *NORTH, MD 2-4, RIGHT ARROW* (30"x51") - GROUND MOUNT
		- 1 EA	ASSOCIATED SHIELD ASSEMBLY *SOUTH, MD 2-4, LEFT ARROW* (48"x75") - GROUND MOUNT

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR:

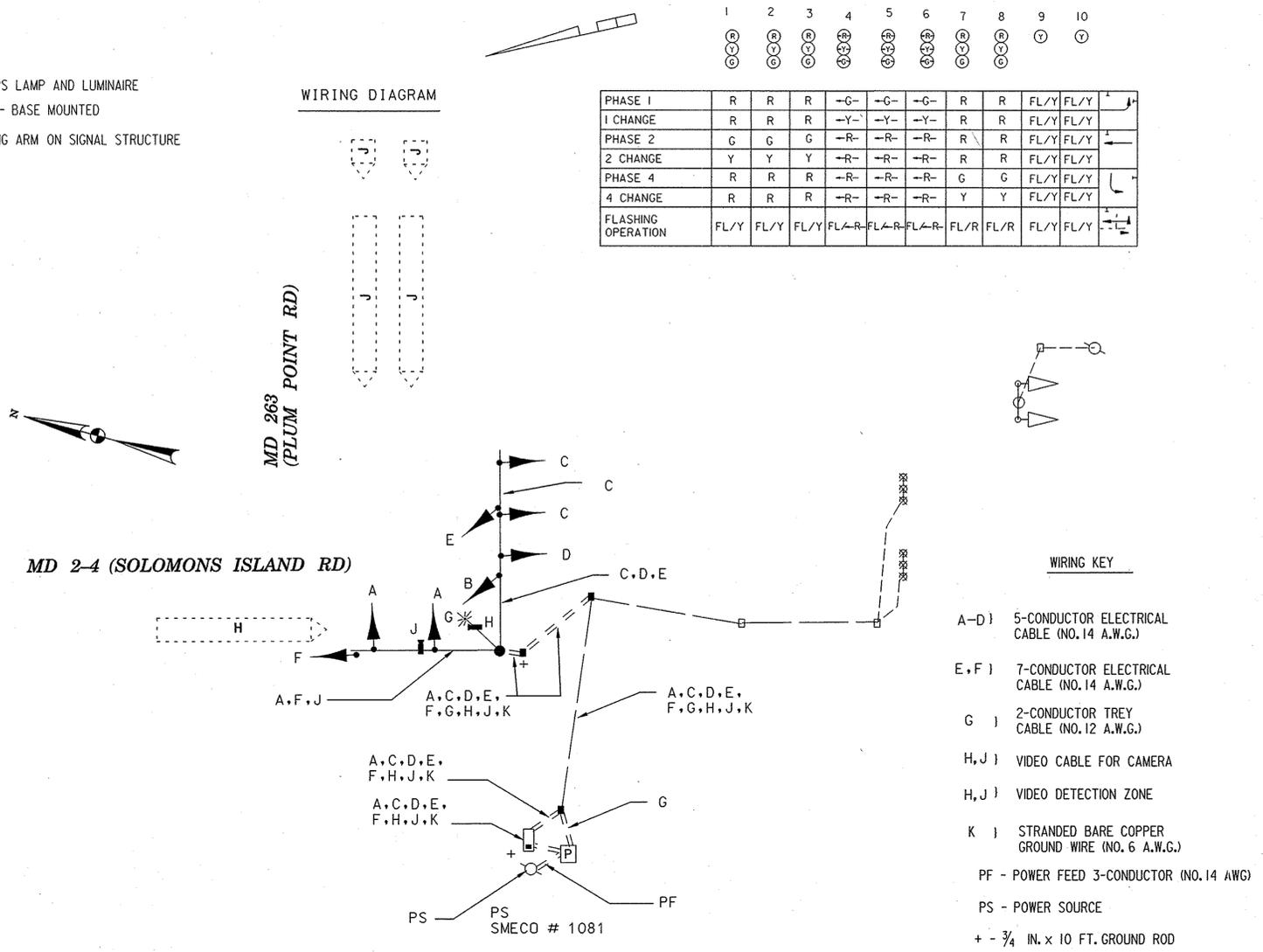
CATEGORY CODE NO.	SPEC. NO.	QUANTITY	DESCRIPTION
120500	104	L.S.	MAINTENANCE OF TRAFFIC
203030	205	10 C.Y.	TEST PIT EXCAVATION
802501	810	175 L.F.	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
837001	804	2 EA.	FURNISH AND INSTALL GROUND ROD - 3/4" IN. DIA. X 10 FT. LENGTH.
860272	814	28 EA.	FURNISH AND INSTALL 12 IN. L.E.D. VEHICULAR TRAFFIC SIGNAL HEAD SECTION BLACK FACED
861107	810	750 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG).
861108	810	475 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG).
800000	2 EA.		FURNISH AND INSTALL VIDEO DETECTION CAMERA.
800000	2 EA.		FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABLE.
811001	811	1 EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE.
870163	805	25 L.F.	FURNISH AND INSTALL 3 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - TRENCHED
870167	805	65 L.F.	FURNISH AND INSTALL 4 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - BORED
585624	SP-555	55 L.F.	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE)
800000	1 EA.		FURNISH AND INSTALL VIDEO FOR DETECTION SYSTEM.
818041	818	1 EA.	FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE W/ TWIN 70 FT, 38 FT MAST ARM.
801004	801	6.65 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
802501	810	150 L.F.	FURNISH AND INSTALL STRANDARD BARE COPPER GROUND WIRE (NO. 6 AWG)
810010	810	50 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 1 WIRE NO. 4 AWG THHN/THWN

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

- MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1003
- MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1002
- MR. MARK COBLENTZ
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 841-1004
- MR. JOHN S. MAYS
UTILITY ENGINEER
PHONE: (410) 841-1005
- MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

WIRING DIAGRAM



SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 MD 2-4 (SOLOMONS ISLAND ROAD) AT MD 263 (PLUM POINT ROAD)
 TRAFFIC SIGNAL PLAN



APPROVALS	REVISIONS	ULTIMATE TRAFFIC SIGNAL GENERAL INFORMATION SHEET	
TEAM LEADER ASST. DIV. CHIEF DIVISION CHIEF OFFICE DIRECTOR	(N) 062006 RECONSTRUCT SIGNAL DUE TO GEOMETRIC UPGRADES S.H.A. CA3178176 (M) 072002 INSTALL H.I.B. FOR NB MD 2-4 & ADD THIRD SIGNAL HEAD FOR NB MD 2-4 AT INTERSECTION S.H.A. 00105485 (L) 082001 UPGRADE DETECTION S.H.A. CA4865177 (C) 092001 UPGRADE DETECTION S.H.A. CA4865177	SCALE 1"=20' DATE 04/07/1989 CONTRACT NO.	COUNTY CALVERT COUNTY LOGMILE 04002023.36 TIMS NO. H312 TOD NO.
DESIGNED BY S. RAMSEY DRAWN BY S. RAMSEY CHECKED BY D. DODA FAP NO. SEE TITLE SHEET	TS NO. TS-2533 DRAWING - 2 OF 2 SHEET NO. 18 OF 25	PLOTTED: Thursday, August 17, 2006 AT 05:21 PM FILE: C:\SMD\060030_MD2-4_SP\CADD\PSG-F002_M2-4.dgn	