

**PROJECT DESCRIPTION**

**I. GENERAL**

THIS PROJECT INVOLVES INSTALLING APS/CPS PEDESTRIAN EQUIPMENT ON THE NORTH LEG OF THE INTERSECTION OF MD 2 (SOLOMONS ISLAND ROAD) AT SOUTHDOWN ROAD IN ANNE ARUNDEL COUNTY. MD 2 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

**II. INTERSECTION OPERATION**

THIS INTERSECTION OPERATES IN A NEMA SIX-PHASE FULLY-TRAFFIC-ACTUATED MODE WITH AN EXCLUSIVE LEFT TURN PHASE FOR NORTHBOUND AND SOUTHBOUND MD 2. THE SOUTHDOWN ROAD AND ENTRANCE APPROACHES OPERATE CONCURRENTLY. AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED FOR THE NORTH LEG.

**III. PEDESTRIAN OPERATION**

NAVIGATOR AUDIBLE PEDESTRIAN PUSHBUTTONS TO CROSS THE NORTH LEG OF THE INTERSECTION ARE TO BE PROVIDED. WHEN THE PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE:

NORTH: "WAIT TO CROSS SOLOMONS ISLAND AT SOUTHDOWN. WAIT."

WHEN THE WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

**CONTACT PERSONS**

THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

**DISTRICT**

MS. KIM TRAN  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
410-841-1019

MR. MIKE HUBER  
UTILITY ENGINEER  
410-841-1039

MR. JOE GECKLE  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
410-841-1013

MR. JAMES FOLDEN  
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
410-841-1031

**OFFICE OF TRAFFIC AND SAFETY**

MR. AVIJIT MAJI  
CHIEF, TRAFFIC OPERATIONS  
410-787-7630

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

MR. ED RODENHIZER  
MANAGER SIGNAL OPERATIONS  
410-787-7650

MR. EUGENE BAILEY  
MANAGER SIGN OPERATIONS  
410-787-7670

MR. MIKE STOCKER  
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)  
410-787-7668

**BALTIMORE GAS AND ELECTRIC**

MR. MJ MARSHALL - ANNE ARUNDEL COUNTY  
SR. DISTRIBUTION DESIGNER  
410-397-7835

MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL: MD 104.04-13 THROUGH MD 104.04-16.

**EQUIPMENT LIST**

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

NONE

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

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
2001	46	CY	CLASS 2 EXCAVATION
2002	1	CY	TEST PIT EXCAVATION
5003	321	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5004	332	LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	210	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	890	SF	5 INCH CONCRETE SIDEWALK
6003	80	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8002	1	EA	2-WIRE CENTRAL CONTROL UNIT
8005	2	EA	ADJUST HANDHOLE TO GRADE WITH NEW FRAME AND COVER
8008	2	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8009	2	EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8013	1	EA	EMBEDDED METEDED SERVICE PEDESTAL WITH BYPASS SWITCH
8018	2	EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8027	1	EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8043	90	LF	UP TO 4 INCH SCHEDULE 90 RIGID PVC CONDUIT-TRENCHED
8046	67	SF	REMOVE & RESET DECORATIVE BRICK SIDEWALK
8047	30	LF	NO. 6 AWG STRANDED BARE COPPER WIRE
8050	50	LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
8055	20	LF	3 INCH DIAMETER POLYVINYL CHLORIDE CONDUIT, SCHEDULE 80, RISER
8058	540	LF	ELECTRICAL CABLE 2 CONDUCTOR (NO. 14 AWG)

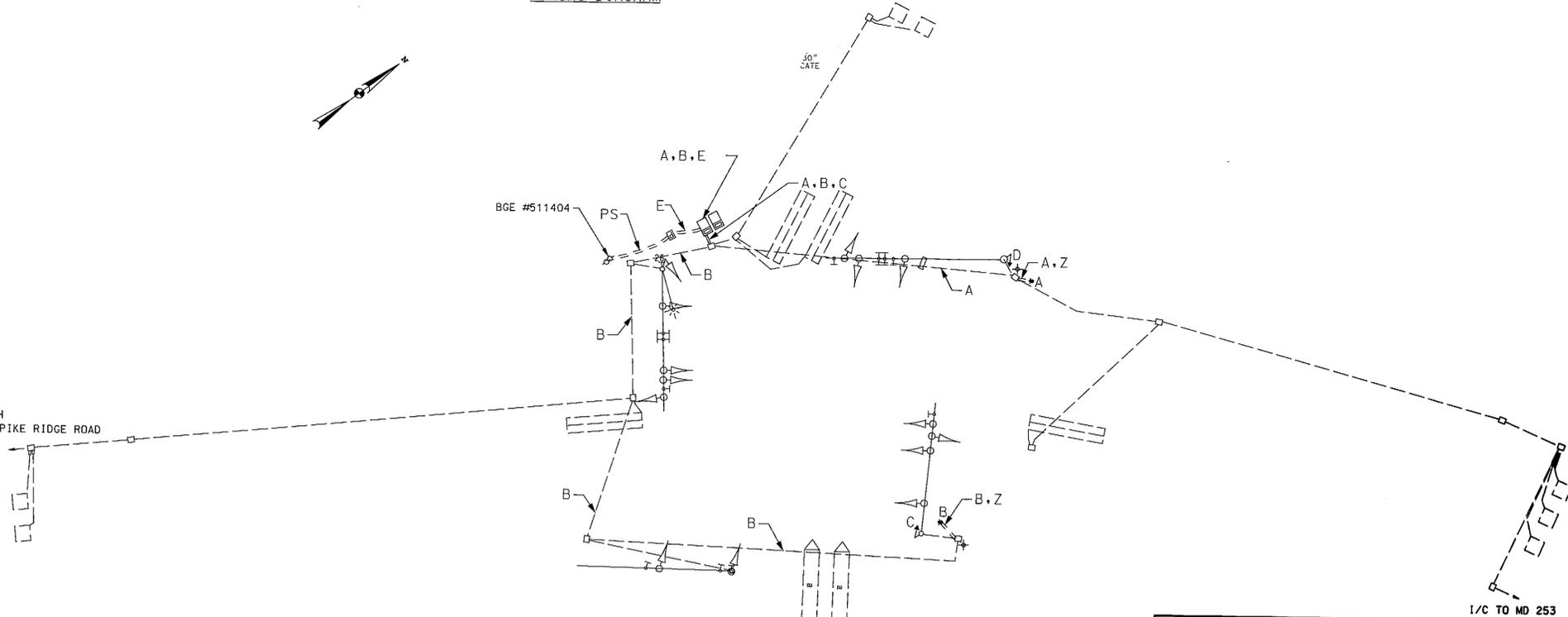
C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

**PHASE CHART**



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
PHASE 1 & 5	←G-	←G-	R	R	←G-	←G-	R	R	R	R	R	R	R	R	R	DW	DW
1 & 5 MAY CHANGE TO PHASE 1 & 6, 2 & 5, OR 2 & 6																	
PHASE 1 & 6	←G-	←G-	G	G	←R-	←R-	R	R	R	R	R	R	R	R	R	DW	DW
1 & 6 CHANGE	←Y-	←Y-	G	G	←R-	←R-	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 & 5	←R-	←R-	R	R	←G-	←G-	G	G	R	R	R	R	R	R	R	DW	DW
2 & 5 CHANGE	←R-	←R-	R	R	←Y-	←Y-	G	G	R	R	R	R	R	R	R	DW	DW
PHASE 2 & 6	←R-	←R-	G	G	←R-	←R-	G	G	R	R	R	R	R	R	R	DW	DW
2 & 6 CHANGE	←R-	←R-	Y	Y	←R-	←R-	Y	Y	R	R	R	R	R	R	R	DW	DW
PHASE 4 & 8	←R-	←R-	R	R	←R-	←R-	R	R	G	G	G	G	G	G	G	DW	DW
4 & 8 CHANGE	←R-	←R-	R	R	←R-	←R-	R	R	Y	Y	Y	Y	Y	Y	Y	DW	DW
PHASE 4 ALT & 8	←R-	←R-	R	R	←R-	←R-	R	R	G	G	G	G	G	G	G	WK	WK
PED CLEAR	←R-	←R-	R	R	←R-	←R-	R	R	G	G	G	G	G	G	G	FL/DW	FL/DW
4 ALT & 8 CHANGE	←R-	←R-	R	R	←R-	←R-	R	R	Y	Y	Y	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	←FL/R	←FL/R	FL/Y	FL/Y	←FL/R	←FL/R	FL/Y	FL/Y	FL/R	DARK	DARK						

**WIRING DIAGRAM**



**WIRING KEY**

- A, B - ELECTRICAL CABLE-2 CONDUCTOR (NO. 14 AWG)
- D - CONNECT TO EXISTING CABLE.
- Z - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- PS - POWER SUPPLY CABLE PROVIDED BY BGE
- E - 3-ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG - THHN/THWN

TOD NO: XY139-04  
SHA NO: AA189B54  
MD 2, MD 214A, MD 253 Various Locations

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 2 (SOLOMONS ISLAND ROAD) AT  
SOUTHDOWN ROAD  
EDGEWATER, MARYLAND

**GENERAL INFORMATION SHEET**

SCALE: NTS ADVERTISED DATE: JANUARY 2013 CONTRACT NO. XY1395185

DESIGNED BY: JVB/AMH OF KCI COUNTY: ANNE ARUNDEL  
DRAWN BY: JVB OF KCI LOGMILE: 02000216.89  
CHECKED BY: JFL OF KCI TMS NO. L652  
F.A.P. NO. TOD NO.

TS NO. 1817-C DRAWING SG-3 OF 3 SHEET NO. 6 OF 21

BY: Joost Van Boekhold Division: P068 Highway TrafficGMA Emp



DRILL HOLES

BORDER REV. DATE: March 27, 2007