

PROJECT DESCRIPTION

- I. GENERAL
THIS PROJECT INVOLVES INSTALLING APS/CPS PEDESTRIAN EQUIPMENT ON THE SOUTH AND EAST LEG OF THE INTERSECTION OF MD 2 (SOLOMONS ISLAND ROAD) AT MD 253 (MAYO 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 EXCLUSIVE LEFT TURN PHASES FOR NORTHBOUND AND SOUTHBOUND MD 2, WITH A MD 253 RIGHT-TURN OVERLAP. THERE IS SPLIT-PHASING FOR THE EASTBOUND AND WESTBOUND MOVEMENTS OF MAYO ROAD AND THE ENTRANCE TO LEE AIRPORT. ALTERNATE PEDESTRIAN PHASES ARE PROVIDED FOR THE SOUTH AND EAST LEG OF THE INTERSECTION.
- III. PEDESTRIAN OPERATION
NAVIGATOR AUDIBLE PEDESTRIAN PUSHBUTTONS TO CROSS THE SOUTH AND EAST 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:
SOUTH: "WAIT TO CROSS SOLOMONS ISLAND AT MAYO, WAIT."
EAST: "WAIT TO CROSS MAYO AT SOLOMONS ISLAND, 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 OFFICE OF TRAFFIC AND SAFETY

MS. KIM TRAN ASSISTANT DISTRICT ENGINEER - TRAFFIC 410-841-1019
MR. AVIJIT MAJI CHIEF, TRAFFIC OPERATIONS 410-787-7630

MR. MIKE HUBER UTILITY ENGINEER 410-841-1039
MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7630

MR. JOE GECKLE ASSISTANT DISTRICT ENGINEER - MAINTENANCE 410-841-1013
MR. ED RODENHIZER MANAGER SIGNAL OPERATIONS 410-787-7650

MR. JAMES FOLDEN ASSISTANT DISTRICT ENGINEER - CONSTRUCTION 410-841-1031
MR. EUGENE BAILEY MANAGER SIGN OPERATIONS 410-787-7670

BALTIMORE GAS AND ELECTRIC
MR. MJ MARSHALL - ANNE ARUNDEL COUNTY SR. DISTRIBUTION DESIGNER 410-397-7835
MR. MIKE STOCKER SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) 410-787-7668

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

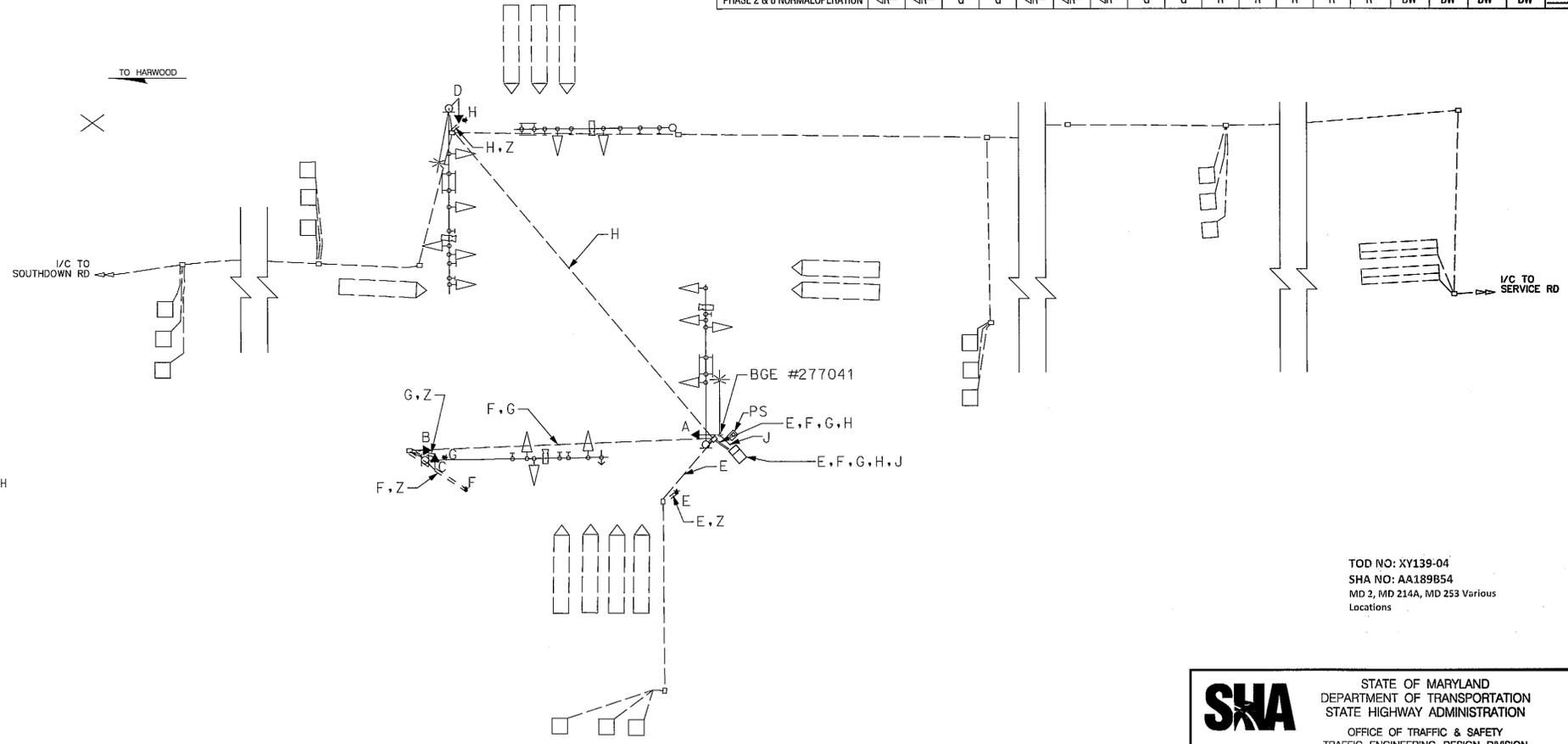
- A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION
- | ITEM NO. | QUANTITY | UNIT | DESCRIPTION |
|----------|----------|------|-------------|
| NONE | | | |
- B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR
- | ITEM NO. | QUANTITY | UNIT | DESCRIPTION |
|----------|----------|------|---|
| 2001 | 28 | CY | CLASS 2 EXCAVATION |
| 2002 | 1 | CY | TEST PIT EXCAVATION |
| 5003 | 489 | LF | REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS |
| 5004 | 423 | LF | 12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES |
| 5005 | 66 | LF | 24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES |
| 6001 | 150 | LF | STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH |
| 6002 | 580 | SF | 5 INCH CONCRETE SIDEWALK |
| 6003 | 52 | 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 | 4 | EA | AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS |
| 8009 | 4 | EA | BREAKAWAY PEDESTAL POLE (ANY SIZE) |
| 8013 | 1 | EA | EMBEDDED METERED SERVICE PEDESTAL WITH BYPASS SWITCH |
| 8018 | 4 | EA | LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD |
| 8043 | 110 | LF | UP TO 4 INCH SCHEDULE 90 RIGID PVC CONDUIT-TRENCHED |
| 8047 | 80 | LF | NO. 6 AWG STRANDED BARE COPPER WIRE |
| 8050 | 40 | LF | ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN |
| 8055 | 20 | LF | 3 INCH DIAMETER POLYVINYL CHLORIDE CONDUIT, SCHEDULE 80, RISER |
| 8058 | 600 | 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	17	18	
PHASE 1 & 5	<G-	<G-	R	R	<G-	<G-	<G-	R	R	R	R	R	R	R	R	R	R	R	R
1 & 5 CHANGE TO 1 & 6, 2 & 5, OR 2 & 6	<G-	<G-	G	G	<R-	<R-	<R-	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 1 & 6	<G-	<G-	G	G	<R-	<R-	<R-	R	R	R	R	R	R	R	R	R	R	R	R
1 CHANGE	<Y-	<Y-	G	G	<R-	<R-	<R-	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 & 5	<R-	<R-	R	R	<G-	<G-	<G-	G	G	R	R	R	R	R	R	R	R	R	R
5 CHANGE	<R-	<R-	R	R	<Y-	<Y-	<Y-	G	G	R	R	R	R	R	R	R	R	R	R
PHASE 2 & 6	<R-	<R-	G	G	<R-	<R-	<R-	G	G	R	R	R	R	R	R	R	R	R	R
PED CLEARANCE	<R-	<R-	G	G	<R-	<R-	<R-	G	G	R	R	R	R	R	R	R	R	R	R
2 & 6 CHANGE	<R-	<R-	Y	Y	<R-	<R-	<R-	Y	Y	R	R	R	R	R	R	R	R	R	R
PHASE 3	<R-	<R-	R	R	<R-	<R-	<R-	R	R	<G-/G	G	R	R	R	R	R	R	R	R
PHASE 3 CHANGE	<R-	<R-	R	R	<R-	<R-	<R-	R	R	Y	Y	R	R	R	R	R	R	R	R
PHASE 3 ALT	<R-	<R-	R	R	<R-	<R-	<R-	R	R	<G-/G	G	R	R	R	R	R	R	R	R
PED CLEARANCE	<R-	<R-	R	R	<R-	<R-	<R-	R	R	<G-/G	G	R	R	R	R	R	R	R	R
3 ALT CHANGE	<R-	<R-	R	R	<R-	<R-	<R-	R	R	Y	Y	R	R	R	R	R	R	R	R
PHASE 4	<R-	<R-	R	R	<R-	<R-	<R-	R	R	R	R	R	R	R	R	R	R	R	R
4 CHANGE	<R-	<R-	R	R	<R-	<R-	<R-	R	R	Y	Y	R	R	R	R	R	R	R	R
FLASHING OPERATION	FL/R-	FL/R-	FL/Y	FL/Y	FL/R-	FL/R-	FL/R-	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R
FIRE HOUSE PRE-EMPTION																			
PRE-EMPTION PHASE 4	<R-	<R-	R	R	<R-	<R-	<R-	R	R	R	R	R	R	<G-/G	<G-/G	G	DW	DW	DW
PRE-EMPTION CLEARANCE	<R-	<R-	R	R	<R-	<R-	<R-	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW
PHASE 2 & 6 NORMAL OPERATION	<R-	<R-	G	G	<R-	<R-	<R-	G	G	R	R	R	R	R	R	R	DW	DW	DW

WIRING DIAGRAM



WIRING KEY

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

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
MD 253 (MAYO ROAD) / LEE AIRPORT ENTRANCE
EDGEWATER, MARYLAND

GENERAL INFORMATION SHEET

SCALE: _____ NTS ADVERTISED DATE: JANUARY 2013 CONTRACT NO. XY139B185

DESIGNED BY: JVB/MH OF KCI COUNTY: ANNE ARUNDEL
DRAWN BY: JVB OF KCI LOGMILE: 02000217.21
CHECKED BY: JFL OF KCI TIMS NO.: 1652
F.A.P. NO.: _____ TOD NO.: _____

TS NO. 694-L DRAWING SG-3 OF 3 SHEET NO. 9 OF 21

BY: Joost Van Boekhold Division: P068 Highway Traffic/GMA Emp

