

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 LEE AIRPARK DRIVE IN ANNE ARUNDEL COUNTY. MD 2 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.
- II. INTERSECTION OPERATION
THIS INTERSECTION OPERATES IN A NEMA SEVEN-PHASE FULLY-TRAFFIC-ACTUATED MODE. EXCLUSIVE LEFT-TURN PHASES ARE PROVIDED FOR THE NORTHBOUND, SOUTHBOUND, AND EASTBOUND MOVEMENTS. THE SIDE STREETS OPERATE CONCURRENTLY. AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS THE NORTH LEG OF THE INTERSECTION.
- 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 LEE AIRPARK, 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. MIKE STOCKER SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) 410-787-7668
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
- | ITEM NO. | QUANTITY | UNIT | DESCRIPTION |
|----------|----------|------|-------------|
| NONE | | | |
- B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR
- | ITEM NO. | QUANTITY | UNIT | DESCRIPTION |
|----------|----------|------|---|
| 1001 | 1 | EA | MAINTENANCE OF TRAFFIC |
| 2001 | 59 | CY | CLASS 2 EXCAVATION |
| 2002 | 1 | CY | TEST PIT EXCAVATION |
| 6001 | 320 | LF | STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH |
| 6002 | 1170 | SF | 5 INCH CONCRETE SIDEWALK |
| 6003 | 70 | 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 METERED SERVICE PEDESTAL WITH BYPASS SWITCH |
| 8018 | 2 | EA | LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD |
| 8043 | 1 | LF | UP TO 4 INCH SCHEDULE 90 RIGID PVC CONDUIT-TRENCHED |
| 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 | 200 | LF | ELECTRICAL CABLE 2 CONDUCTOR (NO. 14 AWG) |
| 8060 | 210 | LF | ELECTRICAL CABLE 5 CONDUCTOR (NO. 14 AWG) |
| 8038 | 425 | LF | ELECTRICAL CABLE-2 CONDUCTOR (NO. 12 AWG) |
- C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SHARPS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7818

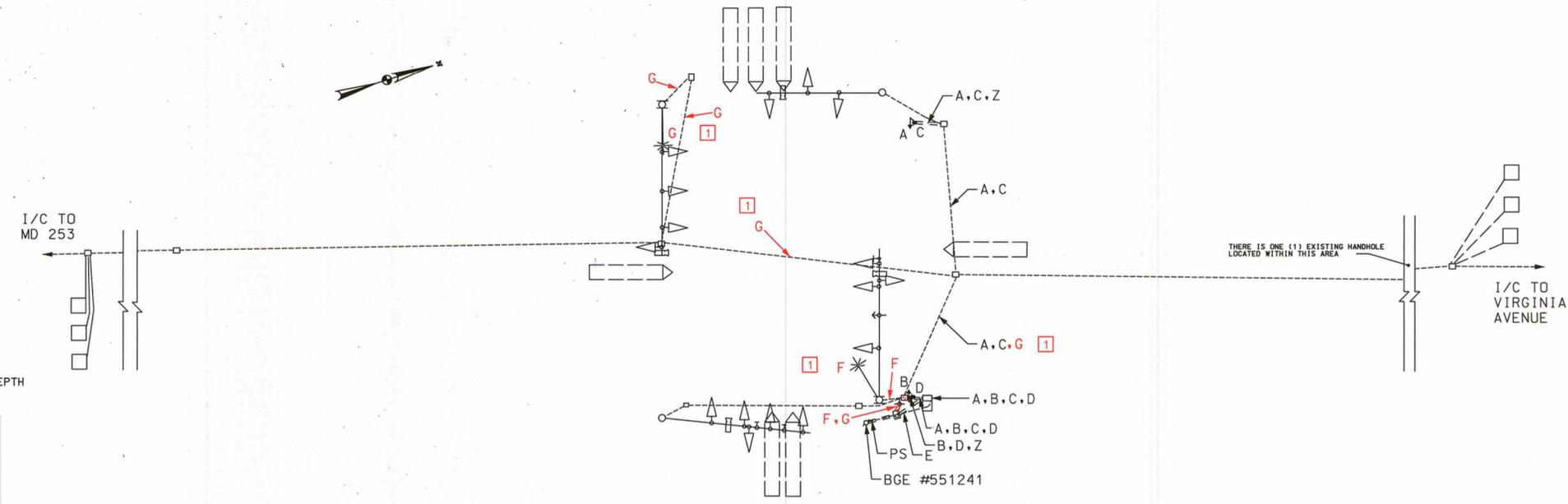
PHASE CHART

	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-	R	R	<R-	<R-	<R-	R	R	R	R	R	DW	DW
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	DW	DW
PHASE 1 & 6	<Y-	<Y-	G	G	<R-	<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	R	DW	DW
PHASE 2 & 5	<R-	<R-	R	R	<G-	<G-	G	G	<R-	<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	R	DW	DW
PHASE 2 & 6	<R-	<R-	G	G	<R-	<R-	G	G	<R-	<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	R	DW	DW
PHASE 4 & 7	<R-	<R-	R	R	<G-	<G-	R	R	<G-	<G-	R	R	R	R	R	R	DW	DW
7 CHANGE	<R-	<R-	R	R	<R-	<R-	R	R	<Y-	<Y-	<Y-	G	G	R	R	R	DW	DW
PHASE 4 & 8	<R-	<R-	R	R	<R-	<R-	R	R	<R-	<R-	<R-	G	G	G	G	G	DW	DW
4 & 8 CHANGE	<R-	<R-	R	R	<R-	<R-	R	R	<R-	<R-	<R-	Y	Y	Y	Y	Y	DW	DW
PHASE 4 & 8 ALT	<R-	<R-	R	R	<R-	<R-	R	R	<R-	<R-	<R-	G	G	G	G	G	WK	WK
PED CLEARANCE	<R-	<R-	R	R	<R-	<R-	R	R	<R-	<R-	<R-	G	G	G	G	G	FL/DW	FL/DW
4 & 8 ALT CHANGE	R	R	R	R	R	R	R	R	R	R	R	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							

FIRE HOUSE PRE-EMPTION

PRE-EMPTION PHASE 4	<G-	<G-	G	G	<R-	<R-	<R-	R	<R-	<R-	<R-	R	R	R	R	R	DW	DW
PRE-EMPTION CLEARANCE	<Y-	<Y-	G	G	<R-	<R-	<R-	R	<R-	<R-	<R-	R	R	R	R	R	DW	DW

WIRING DIAGRAM



WIRING KEY

A,B-ELECTRICAL CABLE-5 CONDUCTOR (NO. 14 AWG)
C,D-ELECTRICAL CABLE-2 CONDUCTOR (NO. 14 AWG)
E-3 ELECTRICAL CABLE-1 CONDUCTOR (NO. 8 AWG) - THHN/THWN
PS-POWER SUPPLY CABLES SUPPLIED BY BGE
Z-NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
1 F,G-ELECTRICAL CABLE-2 CONDUCTOR (NO. 12 AWG)

1 REDLINE NO. 1
NAME: [Signature] DATE: 8-13-13

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 2 (SOLOMONS ISLAND ROAD) AT
LEE AIRPARK DRIVE (SERVICE ROAD)/CVS ENTRANCE
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: 02000217.50
CHECKED BY: JFL OF KCI TIMS NO.: L652
F.A.P. NO.: TOD NO.:

TS NO. 3891-E DRAWING **SG-3** OF 3 SHEET NO. 12 OF 21