PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 173 (FORT SMALLWOOD RD) AND APPIAN WAY IN ANNE ARUNDEL COUNTY. THE MODIFICATION WILL REPLACE THE EXISTING PEDESTRIAN SIGNALS WITH APS/CPS. MD 173 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA FIVE (5) PHASE FULLY-ACTUATED MODE. NORTHBOUND AND SOUTHBOUND APPROACHES OF MD 173 OPERATE CONCURRENTLY WITH A EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR NORTHBOUND MD 173 LEFT TURN MOVEMENT. BOTH EASTBOUND AND WESTBOUND APPROACHES OF APPIAN WAY OPERATE CONCURRENTLY. AN ALTERNATIVE ACTUATED PEDESTRIAN PHASE WITH AUDIBLE PEDESTRIAN SIGNALS ACROSS THE NORTHERN LEG OF MD 173 WILL BE PROVIDED.

III. SPECIAL NOTES

APS WILL FUNCTION AS FOLLOWS:
TO CROSS MD 173 (FORT SMALLWOOD RD)

1. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE: "WAIT TO CROSS FORT SMALLWOOD AT APPIAN, WAIT."
2. WHEN THE WALK PHASE BEGINS, THE PUSHBUTTON UNIT WILL PROVIDE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTACTS

DISTRICT (DISTRICT 5)	OFFICE OF TRAFFIC AND SAFETY
MR. LEE STARKLOFF DISTRICT ENGINEER 410-841-1001	MS. CORREN JOHNSON CHIEF, TRAFFIC OPERATIONS 410-787-7630
MS. KIMBERLY TRAN ASSISTANT DISTRICT ENGINEER - TRAFFIC 410-841-1003	MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7630
MR. MIKE HUBER DISTRICT UTILITY ENGINEER 410-841-1039	MR. EDWARD RODENHIZER CHIEF, SIGNAL OPERATIONS SECTION 410-787-7650
MR. JAMES FOLDEN ASSISTANT DISTRICT ENGINEER - CONSTRUCTION 410-841-1031	MR. EUGENE BAILEY CHIEF, SIGN OPERATIONS SECTION 410-787-7670
MR. JOSEPH GECKLE ASSISTANT DISTRICT ENGINEER - MAINTENANCE 410-841-1013	MR. MICHAEL STOCKER SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) 410-787-7696

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADIMISTRATION

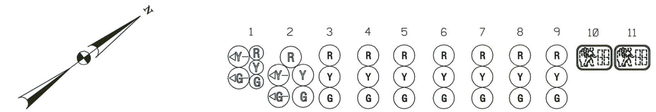
ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9571	2	SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN 2 EA R10-3(1) "PUSH BUTTON TO CROSS 'FORT SMALLWOOD'" (9"X15")

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

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
2001	4	CY	CLASS 2 EXCAVATION
2002	1	CY	TEST PIT EXCAVATION
5001	390	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
2 5004	~~390~~ 520	LF	12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	120	LF	STANDARD TYPE 'A' COMBINATION CURB AND GUTTER 12 IN. GUTTER PAN 8 IN. DEPTH
2 6002	~~500~~ 535	SF	5 IN. CONCRETE SIDEWALK
2 6003	~~55~~ 44	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
1 8002	1	EA	2-WIRE CENTRAL CONTROL UNIT
8008	2	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8009	2	EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8018	2	EA	LED 16 IN. COUNTDOWN PEDESTRIAN SIGNAL HEAD
8027	1	EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8043	30	LF	UP TO 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8045	2	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8047	40	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8058	370	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8060	380	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
NEG	20	SY	PLACING FURNISHED TOPSOIL 4 IN. DEPTH
NEG	20	SY	TURFGRASS ESTABLISHMENT

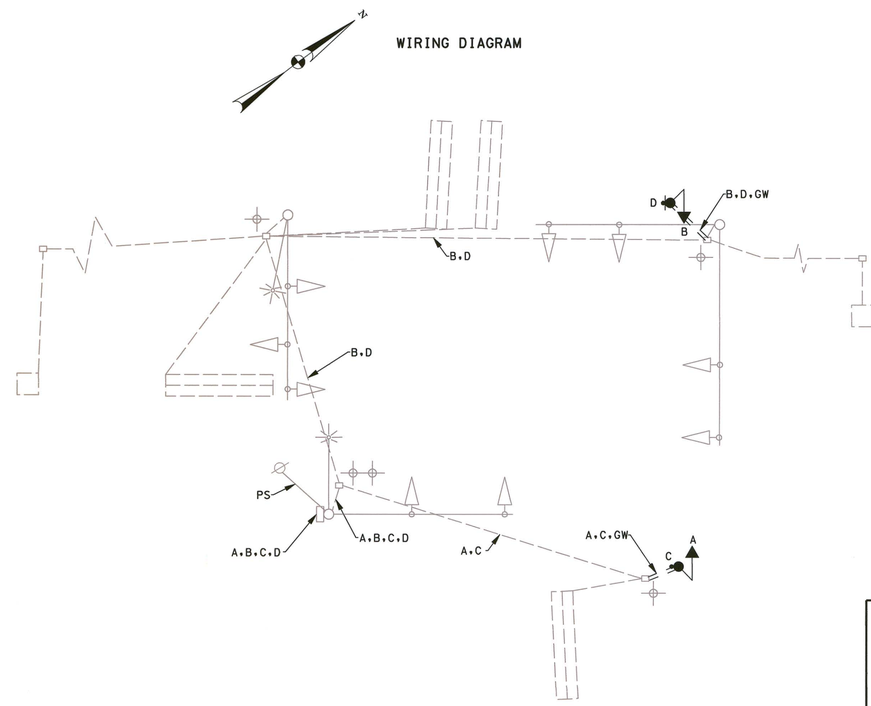
C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATIONS.

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11
Phase 1 & 6	◁G-G	◁G-G	G	R	R	R	R	R	R	DW	DW
1 Change	◁Y-G	◁Y-G	G	R	R	R	R	R	R	DW	DW
Phase 2 & 6	G	G	G	G	G	R	R	R	R	DW	DW
2 & 6 Change	Y	Y	Y	Y	Y	R	R	R	R	DW	DW
Phase 4 & 8	R	R	R	R	R	G	G	G	G	DW	DW
4 & 8 Change	R	R	R	R	R	Y	Y	Y	Y	DW	DW
Phase 4 & 8 Alt.	R	R	R	R	R	G	G	G	G	WK	WK
Ped Clearance.	R	R	R	R	R	G	G	G	G	FL/DW	FL/DW
4 & 8 Alt. Change	R	R	R	R	R	Y	Y	Y	Y	DW	DW
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A,B - 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

C,D - 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

PS - EXISTING POWER CABLE

GW - 1 CONDUCTOR STRANDED COPPER GROUND WIRE (NO. 6 AWG)

+ - EXISTING GROUND ROD

TEDD APPROVALS

2 REDLINE	REV.2	8/20/13		
1 REDLINE	REV.1	6/17/13	DJD	

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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 173 (FORT SMALLWOOD RD) at APPIAN WAY

RIVIERA BEACH, MD

GENERAL INFORMATION SHEET

SCALE N.T.S. DATE MAY 1, 2013 CONTRACT NO. XY1395185

DESIGNED BY MAW
DRAWN BY MAW
CHECKED BY KMP/WM
F.A.P. NO.

COUNTY ANNE ARUNDEL
LOGMILE 02017304.65
TIMS NO. L658
TOD NO.

TS NO.2217B-GI | DRAWING SG-02 OF 02 | SHEET NO. 02 OF 06

PLOTTED: Tuesday, August 20, 2013 AT 09:19 AM
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BY: WagnerM