

**PROJECT DESCRIPTION
GENERAL**

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 176 (DORSEY RD) AT MD 648 (BALTIMORE-ANNAPOLIS BLVD.) IN ANNE ARUNDEL COUNTY. AUDIBLE PEDESTRIAN PUSHBUTTON STATIONS AND COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTIONS SHALL BE INSTALL ACROSS THE WEST LEG OF MD 176 (DORSEY ROAD). NEW ADA RAMPS SHALL ALSO BE INSTALL FOR THE WEST LEG OF THE INTERSECTION.

INTERSECTION OPERATION

A SYSTEM CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 4 NEMA PHASES. THE SIDE STREETS OPERATE USING LEFT TURN FIVE SIGNAL HEAD SECTIONS FOR BOTH EAST AND WEST BOUND APPROACHES OF MD 648. A RIGHT TURN OVERLAP IS USED DURING LEFT TURN PHASE 1 AND 5 FOR THE NORTH BOUND APPROACH OF MD 176. THE MAIN LINE OPERATES USING THREE-SECTION LEFT TURN EXCLUSIVE SIGNAL HEAD SECTIONS FOR BOTH NORTH AND SOUTH BOUND APPROACHES OF MD 176 AND 8TH AVENUE. A RIGHT TURN OVERLAP IS USED DURING THE LEFT TURN PHASE S 3 AND 7 FOR THE EAST BOUND APPROACHES OF MD 648.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MS. KIMBERLY TRAN, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1019
MR. MARK COBLENTZ, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 841-1031
MR. CHUCK E. GEORGE, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1013
MR. JOHN S. MAYS, UTILITY ENGINEER
PHONE: (410) 841-1039
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. ROBERT SNYDER, ASSISTANT DIVISION CHIEF OF TOD - PHONE DROP
PHONE: (410) 787-7631

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING STANDARD PLATES FOR TRAFFIC CONTROL:

EQUIPMENT LIST

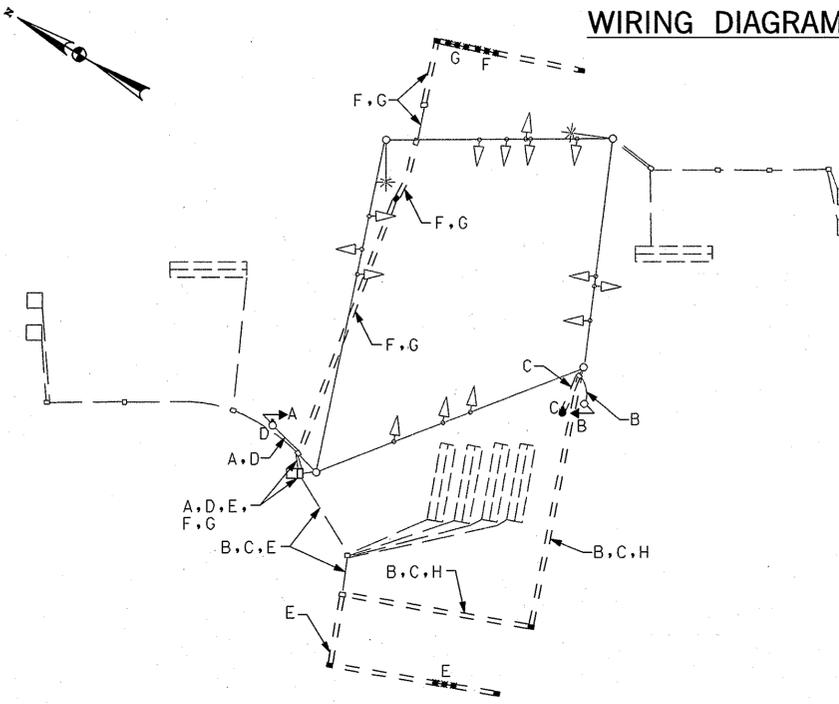
A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9547	EXTRUDED ALUMINUM SIGN CONSISTING OF: R10-4(1) MOD. (9' X 15')	SF EA	3 2

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

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	1
2002	TEST PIT EXCAVATION	CY	1
5002	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH	LF	190
5005	24 INCH HEAT APPL. WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKINGS	LF	190
6002	4 INCH CONCRETE SIDEWALK	SF	310
8005	ADJ EXISTING HANDHOLE TO GRADE	EA	2
8008	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON	EA	2
8009	INSTALL BREAKAWAY PEDESTAL POLE-ANY SIZE	EA	1
8014	LED 16 INCH COUNTDOWN PEDESTRIAN	EA	2
8021	NON-INVASIVE DETECTORS (ANY LENGTH)	EA	3
8022	REMOVE AND DISPOSE OF EQUIPMENT	EA	1
8035	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	400
8036	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	325
8038	DETECTABLE WARNING SURFACES	SF	20
8039	INSTALL OVERHEAD OR GROUND MOUNTED SIGN	SF	3
8041	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	150
8047	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	6
8052	CUT,CLEAN,GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE	EA	1
8054	ELECTRICAL CABLES - 2 CONDUCTOR (NO. 14 AWG)	LF	360
8056	ELECTRICAL CABLES - 5 CONDUCTOR (NO. 14 AWG)	LF	360

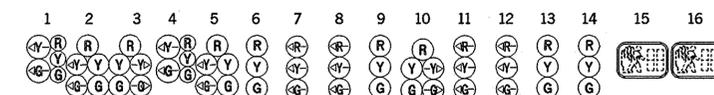
WIRING DIAGRAM



KEY

- A) 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- B) 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- C) NON-INVASIVE LOOP DETECTOR CABLE LEAD-IN
- D) 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE

PHASE CHART



PHASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 AND 5	+GR	+GR	R	+GR	+GR	R	+R-	+R-	R	RG	+R-	+R-	R	R	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																
PHASE 1 AND 6	R	R	R	+GG	+GG	G	+R-	+R-	R	R	+R-	+R-	R	R	DW	DW
1 AND 6 CHANGE	R	R	R	+YG	+YG	G	+R-	+R-	R	R	+R-	+R-	R	R	DW	DW
PHASE 2 AND 5	+GG	+GG	G	R	R	R	+R-	+R-	R	R	+R-	+R-	R	R	WK	WK
PED CLEARANCE	+GG	+GG	G	R	R	R	+R-	+R-	R	R	+R-	+R-	R	R	FLDW	FLDW
2 AND 5 CHANGE	+YG	+YG	G	R	R	R	+R-	+R-	R	R	+R-	+R-	R	R	WK	WK
PHASE 2 AND 6	G	G	G	G	G	G	+R-	+R-	R	R	+R-	+R-	R	R	WK	WK
PED CLEARANCE	G	G	G	G	G	G	+R-	+R-	R	R	+R-	+R-	R	R	FLDW	FLDW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	+R-	+R-	R	R	+R-	+R-	R	R	DW	DW
PHASE 3 AND 7	R	R	RG	R	R	R	+G-	+G-	R	R	+G-	+G-	R	R	DW	DW
3 AND 7 CHANGE TO 3 AND 8, 4 AND 7, OR 4 AND 8																
PHASE 3 AND 8	R	R	R	R	R	R	+R-	+R-	R	R	+G-	+G-	G	G	DW	DW
3 AND 8 CHANGE	R	R	R	R	R	R	+R-	+R-	R	R	+Y-	+Y-	Y	Y	DW	DW
PHASE 4 AND 7	R	R	R	R	R	R	+G-	+G-	G	GG	+R-	+R-	R	R	DW	DW
4 AND 7 CHANGE	R	R	R	R	R	R	+Y-	+Y-	G	YG	+R-	+R-	R	R	DW	DW
PHASE 4 AND 8	R	R	R	R	R	R	+R-	+R-	G	G	+R-	+R-	G	G	DW	DW
4 AND 8 CHANGE	R	R	R	R	R	R	+R-	+R-	Y	Y	+R-	+R-	Y	Y	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FL/R	FL/R	FL/R	FLY	FLY	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK

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

MD 176 (DORSEY ROAD) @ MD 648 (BALTIMORE-ANNAPOLIS BLVD.)
GLEN BURNIE, MD

TOD NO: AT915-21
SHA No: AA487A55/C55
MD 176 @ MD 648

SABRA, WANG & ASSOCIATES, INC.
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GENERAL INFORMATION PLAN

SCALE: N.T.S. DATE: 03/2007 CONTRACT NO.: AT9155185

DESIGNED BY: S. SMITH COUNTY: ANNE ARUNDEL
DRAWN BY: L. THOMAS LOGMILE: 0201760568
CHECKED BY: J. WEAVER T.I.M.S. NO.: I-027
F.A.P. NO.: TOD NO.:

TS NO. 816H DRAWING NO. 2 OF 2 SHEET NO. OF