

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 140 (REISTERSTOWN RD) AND SLADE AVE./MILFORD MILL RD. IN BALTIMORE COUNTY, MARYLAND. MD 140 (REISTERSTOWN RD) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATION WILL REMAIN THE SAME.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER SHALL BE USED.

MAINTENANCE OF TRAFFIC

THE FOLLOWING MINIMUM TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

- STANDARD NO. MD-104.03-01 (SHOULDER WORK)
- STANDARD NO. MD-104.03-03 (LEFT LANE CLOSURE)
- STANDARD NO. MD-104.03-05 (RIGHT LANE CLOSURE)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781/2785

MR. MIKE PASQUARIELLO
ASST. DISTRICT UTILITY ENGINEER
PHONE: (410) 321-2841

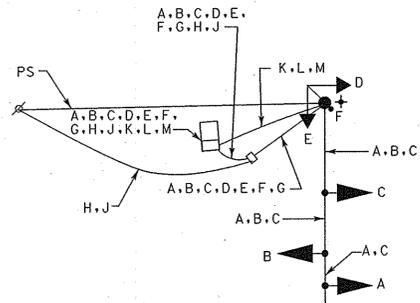
MR. STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-2761

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

WIRING DIAGRAM

WIRING KEY

- A } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- F } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- G } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- H } 12-PAIR INTERCONNECT CABLE
- J } 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG) THHN/THWN
- K } 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG) THHN/THWN
- L } 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG) THHN/THWN
- M } 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG) THHN/THWN
- PS } PROPOSED OVERHEAD ELECTRICAL SERVICE
- + } 3/4 IN. X 10 FT. GROUND ROD



EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9000	1 EACH	27 FT. STEEL POLE AND SINGLE 50 FT. MAST ARM, ANY SIZE
9571	11 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF: - 1 EACH D-3(1) SIGN (DUAL FACE) (VARIABLE X 16") - MAST ARM MOUNT

EQUIPMENT LIST "B"

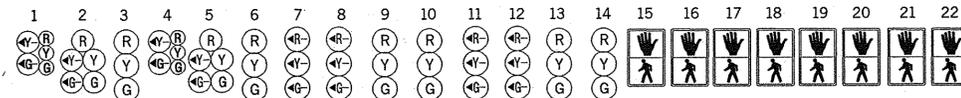
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	LUMP SUM	MAINTENANCE OF TRAFFIC
2002	1 C.Y.	TEST PIT EXCAVATION
8001	2 EACH	12 IN PEDESTRIAN SIGNAL HEAD SECTION
8002	6 EACH	12 INCH RED OR GREEN LED SIGNAL HEAD SECTION
8003	4 EACH	12 INCH YELLOW LED SIGNAL HEAD SECTION
8011	3 EACH	8 INCH LED SIGNAL (R,Y,G) HEAD SECTION
8026	1 EACH	PUSHBUTTON AND SIGN
8028	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
8031	20 L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8038	5 S.F.	RELOCATE EXISTING SIGN
8039	24 S.F.	REMOVE AND RESET DECORATIVE BRICK SIDEWALK
8040	3 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
8043	20 L.F.	NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8049	30 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8050	20 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8055	1 EACH	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS
8056	100 L.F.	ELECTRICAL CABLE - 1 CONDUCTOR NO. 4 A.W.G - THHN/THWN
8064	11 S.F.	INSTALL OVERHEAD SIGN
8070	1 EACH	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
8074	1 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8076	30 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G)
8078	125 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G)
8079	200 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G)
8082	1 EACH	INSTALL STEEL POLE AND SINGLE MAST ARM, ANY SIZE
NEG.	30 L.F.	3 IN. ELECTRICAL CONDUIT, PVC RISER
NEG.	1 EACH	PAINT TRAFFIC SIGNAL STRUCTURE

EQUIPMENT LIST "C"

ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART



PHASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
PHASE 1 AND 5	←G-	←G-	R	←G-	←G-	R	R	R	R	R	R	R	R	R	DW							
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6	G	G	G	R	R	R	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
PHASE 1 AND 6	←G-	←G-	G	R	R	R	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
1 AND 6 CHANGE	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	←G-	←G-	G	R	R	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW	DW	DW
2 AND 5 CHANGE	R	R	R	←G-	←G-	Y	R	R	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	R	R	FLDW	FLDW	FLDW	FLDW	DW	DW	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	R	R	FLDW	FLDW	FLDW	FLDW	DW	DW	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	R	DW							
PHASE 3 AND 7	R	R	R	R	R	←G-	←G-	R	R	R	R	R	R	R	DW							
3 AND 7 CHANGE	R	R	R	R	R	←Y-	←Y-	R	R	R	R	R	R	R	DW							
PHASE 3 AND 8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW							
3 AND 8 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW							
PHASE 4 AND 7	R	R	R	R	R	←G-	←G-	G	G	R	R	R	R	R	DW							
4 AND 7 CHANGE	R	R	R	R	R	←Y-	←Y-	Y	Y	R	R	R	R	R	DW							
PHASE 4 AND 8	R	R	R	R	R	R	R	G	G	R	R	R	R	R	DW							
4 AND 8 CHANGE	R	R	R	R	R	R	R	Y	Y	R	R	R	R	R	DW							
PHASE 4 AND 8 ALT	R	R	R	R	R	R	R	G	G	R	R	R	R	R	DW	DW	DW	DW	WK	WK	WK	WK
PED CLEARANCE	R	R	R	R	R	R	R	G	G	R	R	R	R	R	DW	DW	DW	DW	FLDW	FLDW	FLDW	FLDW
PHASE 4 AND 8 ALT CHANGE	R	R	R	R	R	R	R	Y	Y	R	R	R	R	R	DW							
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	DARK														

TOD NO: AT782-62
SHA No.: 23863T03094
MD 140 @ Millford Road/Slade Avenue

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 140 (REISTERSTOWN RD) @ SLADE/MILFORD MILL
BALTIMORE, MD

WR&A
Whitman, Reardon
and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

GENERAL INFORMATION SHEET

SCALE	NONE	DATE	12/11/2008	CONTRACT NO.	
DESIGNED BY	B. DONOWAY	COUNTY	BALTIMORE		
DRAWN BY	B. DONOWAY	LOGMILE			
CHECKED BY	N. LEARY	TMS NO.			
FAP NO.		TOD NO.			
TS NO.	DRAWING	OF	SHEET NO.	2	OF 2

BY: sbloss