PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF U.S. 1 (BELAIR ROAD) AND JOPPA ROAD/EBENEZER ROAD IN BALTIMORE COUNTY, MARYLAND. U.S. 1 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 WILL BE USED.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAYBE USED AS DIRECTED BY THE ENGINEER.

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

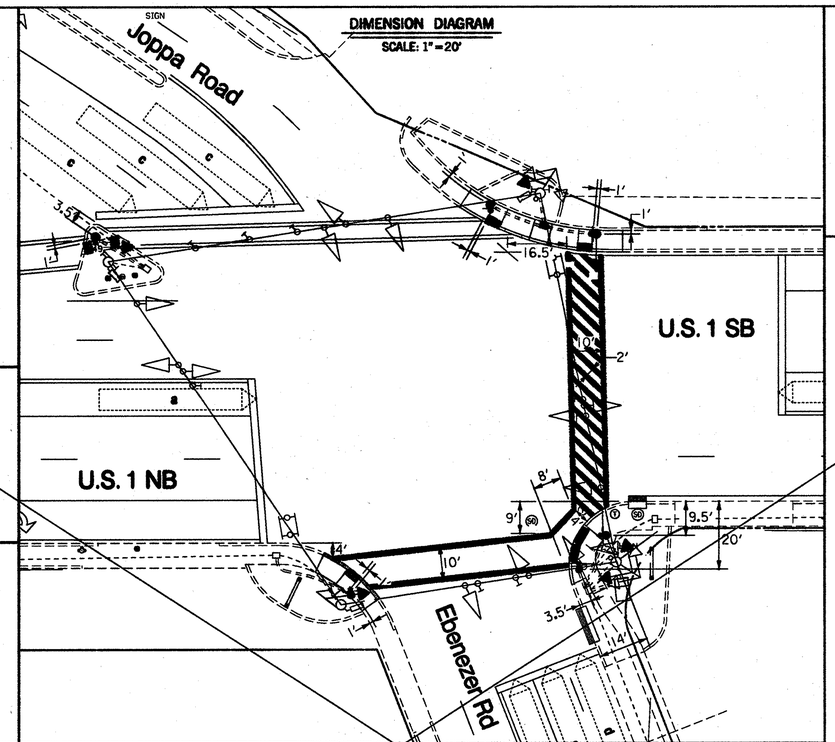
MR. STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-2761

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

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

DIMENSION DIAGRAM

SCALE: 1" = 20'



EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9571	6 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
		- 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS BELAIR ROAD"
		- 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS JOPPA ROAD"
		- 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS EBENEZER ROAD"

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2001	15 C.Y.	CLASS II EXCAVATION
2002	6 C.Y.	TEST PIT EXCAVATION
5003	435 L.F.	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5005	430 L.F.	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
6001	80 L.F.	DEPRESSED CURB AND GUTTER
6003	440 S.F.	4 INCH CONCRETE SIDEWALK
8006	1 EACH	2-WIRE CENTRAL CONTROL UNIT
8014	6 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON
8015	6 EACH	BREAKWAY PEDESTAL POLE (ANY SIZE)
8016	1 EACH	CONDUIT BEND IN EXISTING BASE
8024	6 EACH	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL
8028	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
8031	10 L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8037	56 S.F.	DETECTABLE WARNING SURFACE
8040	6 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
8043	110 L.F.	NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8049	100 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8062	1 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8064	6 S.F.	INSTALL OVERHEAD SIGN
8070	6 EACH	GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
8074	5 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8076	1210 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G)
8078	325 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G)

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

WIRING DIAGRAM

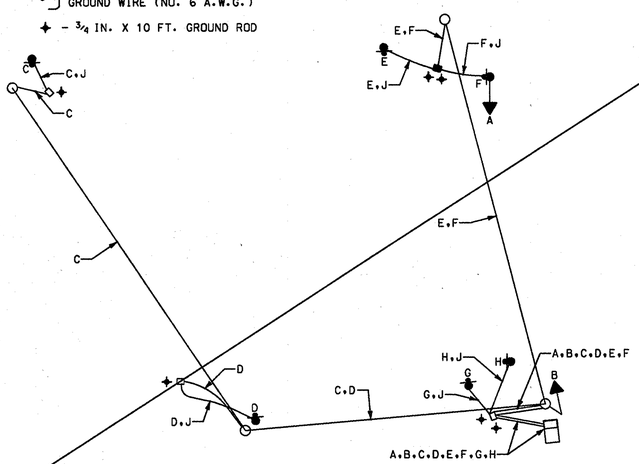
WIRING KEY

A, B } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

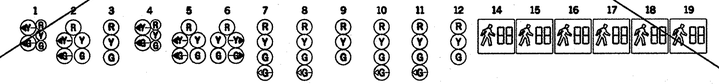
C, D, E, F, G, H } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

J } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

✦ - 3/4 IN. X 10 FT. GROUND ROD



PHASE CHART



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

REDLINE REVISION 1
APRIL 25, 2007

DELETE THIS LOCATION FROM THE PROJECT

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

U.S. 1 (Belair Road) and
Joppa Road/Ebenezer Road

Whitman, Requardt and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

GENERAL INFORMATION SHEET

SCALE	NONE	DATE	11/7/2006
CONTRACT NO.	AT7825185		
DESIGNED BY	S. BLOSS	COUNTY	BALTIMORE
DRAWN BY	S. BLOSS	LOGMILE	
CHECKED BY	N. LEARY	TIMS NO.	L330
FAP NO.		TOD NO.	
TS NO. 564G	DRAWING --	OF -	SHEET NO. 10 OF 10

PLOTTED: $DATETIME$
FILE: $FILE$

BY: $USERNAME$