

I. GENERAL

This project involves the installation of loop detector cables at the intersection of MD 144 (Frederick Road) and I-695 Ramps in Baltimore county. The handhole and conduit carrying loop detector cables will be impacted due to Ramp 8 (I-695 Southbound Off-Ramp) temporary widening. Loop detector cables for queue detection will be replaced on Ramp 8.

II. INTERSECTION OPERATION

- The existing base-mounted signal cabinet and controller will be used during this phase. This intersection will continue to operate in a fully actuated mode using 4 NEMA phases. Eastbound and Westbound MD 144 (Frederick Road) operates concurrently, while the side street movement operates alone.

NOTES

- For final pavement markings, refer to MDOT and/or pavement marking plans, as applicable; other than those detailed on the plan. All pavement markings shall be installed in accordance with Administration standards.
- The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly labeling each cable.
- Disconnecting and splicing of interconnect cable shall be performed by SHA Forces. The contractor shall contact SHA Signal Shop at (410) 787-7650 at least 72 hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- The contractor shall maintain the continuous operation of all vehicular detectors, and lighting devices. If any device is damaged by the contractor, it shall be repaired within 72 hours by the contractor at no cost to the Administration after notification by the Engineer.

CONTACTS

DISTRICT FOUR

MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-229-2381
MR. DONALD SCHAEFER
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
410-229-2421
MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
410-229-2361
MR. MICHAEL PASQUARIELLO
UTILITY ENGINEER
410-229-2341

OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630
MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
410-787-7630
MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
410-787-7650
MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7670
MS. DARLENE EIDE
SUPPLY OFFICER IV
(SIGNAL SHOP WAREHOUSE)
410-787-7668

EQUIPMENT LIST

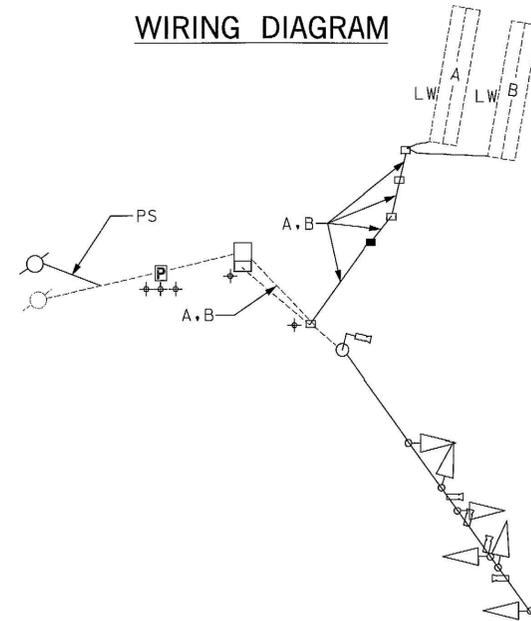
A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO./ CAT CODE	QUANTITY	DESCRIPTION
-----------------------	----------	-------------

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

ITEM NO./ CAT CODE	QUANTITY	UNITS	DESCRIPTION
800000	1	LS	REMOVE AND DISPOSE EXISTING SIGNAL EQUIPMENT
805125	200	LF	2 IN PVC SCHEDULE 80 CONDUIT - TRENCHED
811001	1	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
861104	700	LF	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
805140	20	LF	4 IN PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED

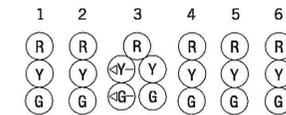
WIRING DIAGRAM



KEY

- A } 2 CONDUCTOR ELECTRICAL CABLE ALUMINIUM SHIELDED
- LW } EXISTING LOOP WIRE
- PS } RELOCATED POWER SERVICE

PHASE CHART



	1	2	3	4	5	6	
PHASE 2 AND 5	R	R	GG	G	R	R	↕
2 AND 5 CHANGE	R	R	YG	G	R	R	↕
PHASE 2 AND 6	G	G	G	G	R	R	↕
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	↕
PHASE 4	R	R	R	R	G	G	↕
4 CHANGE	R	R	R	R	Y	Y	↕
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	↕

MOT STAGE 1



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 144 (FREDERICK ROAD) AT I-695 SB RAMP
INTERCHANGE RECONSTRUCTION

GENERAL INFORMATION SHEET

SCALE _____ NTS _____ DATE SEPTEMBER 2010 CONTRACT NO. BA2275390

DESIGNED BY J. PALADIGU COUNTY BALTIMORE

DRAWN BY J. PALADIGU LOGMILE 0031404.04

CHECKED BY K. BINKER CSW T.I.M.S. NO. _____

F.A.P. NO. _____ SEE TITLE SHEET TOD NO. _____

TS NO. 4381A DRAWING NO. p5G OF N001 SHEET NO. 185 OF 235



SABRA, WANG & ASSOCIATES, INC.
1504 JOH AVENUE
SUITE 160
BALTIMORE, MD 21227
(410) 737-5564
WWW.SABRA-WANG.COM