

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with interconnect at the intersection of MD 140 (Reisterstown Rd) and Franklin Blvd / E. Cherry Hill Road in Baltimore County. The existing signal heads shall be replaced with LED modules in existing signal heads and existing pedestrian signal heads with Countdown pedestrian signals. MD 140 (Reisterstown Rd) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA six-phase, fully-actuated mode, with the MD 140 (Reisterstown Rd) approaches running concurrently. Exclusive left turns for northbound and southbound MD 140 (Reisterstown Rd) exist. A Countdown pedestrian phase with audible pushbutton actuation shall be provided across the north and west leg of MD 140 (Reisterstown Rd) at Franklin Blvd / E. Cherry Hill Road. The side street approaches shall continue to operate as a side street split.
- A full-traffic-actuated, existing eight-phase controller with a proposed 2-wire Central Control Unit and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.
- SHA signal shop shall install APS central control unit into controller cabinet. The Contractor shall deliver the Central Control Unit and audible pushbuttons to the SHA Signal Shop for testing and programming.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7652 seventy-two 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.
- APS will function as follows:
 - FOR MD 140 (REISTERSTOWN RD)
 - When pedestrian locates and presses pushbutton for an extended time, the pushbutton unit will announce "Wait to cross Reisterstown at E. Cherry Hill"
 - When WALK phase begins, the message will be a rapid tick which will last for the duration of the WALK phase.
 - When pedestrian locates and presses pushbutton for an extended time, the pushbutton unit will announce "Wait to cross Reisterstown at Franklin"
 - When WALK phase begins, the message will be a rapid tick which will last for the duration of the WALK phase.
 - FOR Franklin Blvd
 - When pedestrian locates and presses pushbutton for an extended time, the pushbutton unit will announce "Wait to cross Franklin at Reisterstown"
 - When WALK phase begins, the message will be a rapid tick which will last for the duration of the WALK phase.

The contact persons for District #4 are as follows:

- | | |
|---|---|
| Ms. Erin Kuhn
Assistant District Engineer - Traffic
Phone: (410) 321-2781 | Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630 |
| Mr. Andre Futrell
Assistant District Engineer - Maintenance
Phone: (410) 321-2761 | Mr. Ed Rodenhizer
Chief, Traffic Signal Operations
410-787-7652 |
| Mr. Mike Pasqualello
Assistant District Engineer - Utility
Phone: (410) 321-2841 | Mr. Sonny Bailey
Chief Sign Shop
410-787-7670 |

EQUIPMENT LIST

ITEM NO.	DESCRIPTION	QUANTITY
9571	Sheet aluminum signs to consist of: (pole mount)	4 SF
	Pedestrian education R10-3(1) (Note: Sign to read "PUSHBUTTON TO CROSS REISTERSTOWN ROAD")	2 EA
	Pedestrian education R10-3(1) (Note: Sign to read "PUSHBUTTON TO CROSS FRANKLIN BLVD")	2 EA

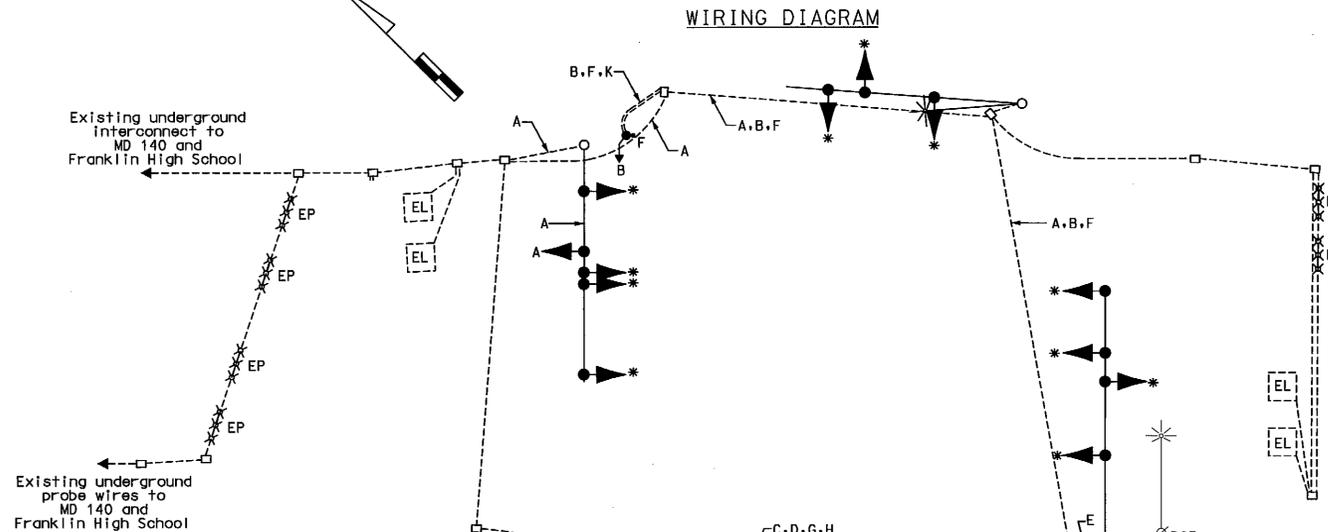
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
2002	Test Pit Excavation	3 C.Y.
6002	5" concrete sidewalk.	36 S.F.
8001	12" LED signal head section.	3 EA
8002	2 wire Central Control unit	1 EA
8007	Audible/tactile pedestrian pushbutton station & signs.	4 EA
8008	Breakaway pedestal pole (ANY SIZE)	3 EA
8010	LED 16" countdown pedestrian signal head.	4 EA
8011	LED signal head modules (any size).	48 EA
8013	Remove and dispose of equipment (per assignment)	1 EA
8018	Schedule 80 rigid PVC conduit up to 4" - trenched.	80 L.F.
8023	Electrical cable - 2 conductor (No. 14 AWG).	745 L.F.
8025	Electrical cable - 5 conductor (No. 14 AWG).	745 L.F.
8031	Wood sign supports up to 4"x6".	96 L.F.

C. EQUIPMENT TO BE REMOVED
All removed signal materials are to become the property of the contractor.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
PHASE 1 & 5	←G-	←G-	←G-	R	R	←G-	←G-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6																			
PHASE 1 & 6	←G-	←G-	←G-	G	G	←R-	←R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 & 6 CHANGE	←Y-	←Y-	←Y-	G	G	←R-	←R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 5	←R-	←R-	←R-	R	R	←G-	←G-	G	G	R	R	R	R	R	R	DW	DW	DW	DW
2 & 5 CHANGE	←R-	←R-	←R-	R	R	←Y-	←Y-	G	G	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 6	←R-	←R-	←R-	G	G	←R-	←R-	G	G	R	R	R	R	R	R	WK	WK	DW	DW
PED CLEAR / COUNTDOWN	←R-	←R-	←R-	G	G	←R-	←R-	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
2 & 6 CHANGE	←R-	←R-	←R-	Y	Y	←R-	←R-	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3	←R-	←R-	←R-	R	R	←R-	←R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
3 CHANGE	←R-	←R-	←R-	R	R	←R-	←R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 4	←R-	←R-	←R-	R	R	←R-	←R-	R	R	←G-	←G-	G	R	R	R	DW	DW	DW	DW
4 CHANGE	←R-	←R-	←R-	R	R	←R-	←R-	R	R	←G-	←G-	G	R	R	R	DW	DW	DW	DW
PHASE 3 ALT	←R-	←R-	←R-	R	R	←R-	←R-	R	R	R	R	R	R	R	R	DW	DW	WK	WK
PED CLEAR / COUNTDOWN	←R-	←R-	←R-	R	R	←R-	←R-	R	R	R	R	R	R	R	R	DW	DW	FL/DW	FL/DW
3 ALT CHANGE	←R-	←R-	←R-	R	R	←R-	←R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
FLASHING OPERATION	FL/←R-	FL/←R-	FL/←R-	FL/Y	FL/Y	FL/←R-	FL/←R-	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK



WIRING KEY

- A - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- K - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- * - USE EXISTING WIRING
- EL - EXISTING LOOP
- EP - EXISTING NON-INVASIVE PROBES
- ES - EXISTING OVERHEAD SERVICE

REVISION "E"

5670g1.dgn T-221

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 140 (REISTERSTOWN ROAD) AND FRANKLIN BLVD /CHERRY HILL ROAD
REISTERSTOWN, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE 6-22-09 CONTRACT NO. XX4275185

DESIGNED BY JAMES ALLEN Jr. COUNTY BALTIMORE
DRAWN BY JAMES ALLEN Jr. LOGMILE 0314008.08
CHECKED BY _____ TMS NO. J342
F.A.P. NO. _____ TOD NO. _____

TS NO. 2159E DRAWING NO. 2 OF 2 SHEET NO. OF

BORDER REV: DATE: June 1, 2004

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