DRILL HOLES

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BORDER REV: DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing strain pole Traffic Control Signal with street lighting at the intersection of US 40 (Pulaski Hwy) and Chesaco Avenue in Baltimore County. Video detection cameras shall be installed at this intersection. Also Countdown pedestrian signals with audible. pushbuttons shall be installed across the east leg of US 40. US 40 (Pulaski Hwy) is assumed to run an east-west direction.

II. INTERSECTION OPERATION

1. The intersection shall continue to operate in a NEMA six-phase, fully-actuated mode, with the US 40 (Pulaski Hwy) approaches running concurrently. Exclusive left turn phases shall remain in operation for both approaches of US 40 (Pulaski Hwy). A Countdown pedestrian phase with audible pushbutton actuation shall be provided across the east leg of US 40 (Pulaski Hwy). The Chesaco Avenue approach shall continue to operate concurrently.

2. Video interface shall be installed into the existing full-traffic-actuated, eight-phase controller housed in a NEMA size "6" base-mounted cabinet by SHA Forces.

III. SPECIAL NOTES

1. The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.

2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer(at (410) 787-7650 seventy-two hours in advance of intended work.

3. 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.

4. APS will function as follows:

TO CROSS PULASKI HIGHWAY

a When pedestrian locates and presses the pushbutton for an extended time, the pushbutton unit will announce the following message " Wait to cross Pulaski at Chesaco."

b. When the WALK phase begins, the pushbutton unit will provide 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. Andre Futrell
Assistant District Engineer - Maintenance
Phone: (410) 321-2761

Mr. Mike Pasquaiello
Assistant District Engineer - Utility
Phone: (410) 321-2841

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Ed Rodenhizer
Signal Shop
410-787-7652

Mr. Sonny Bailey
Sign Shop
410-787-7676

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

ITEM NO.	DESCRIPTION	QUANTITY
9086	Video detection interface equipment: 1-4 cameras (To be installed by signal shop).	1 EA
9570	Sheet aluminum signs to consist of: (ground mount)	2 SF
	Pedestrian education R10-3(1) sign. (Note: Sign to read "PUSHBUTTON TO CROSS CROSS PULASKI HWY".)	2 EA
9572	Sheet aluminum signs to consist of: (span wire mount)	16 SF
	D3-2 "Chesaco Ave " sign, (variable x 16") (Dual Faced)	2 EA

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	2 EA
2002	Test Pit Excavation	1 C.Y.
5002	12" white heat applied permanent preformed thermoplastic pavement marking.	730 L.F.

EQUIPMENT LIST (CONT.)

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
5003	24" white heat applied permanent preformed thermoplastic pavement marking.	15 L.F.
6001	Standard type A combination curb and gutter 12" gutter pan 8" depth.	30 L.F.
6002	5" concrete sidewalk.	200 S.F.
8001	12" LED signal head section.	42 EA
8003	2 wire Central Control unit	1 EA
8010	Audible/tactile pedestrian pushbutton station & signs.	2 EA
8011	Breakaway pedestal pole (5')	1 EA
8014	LED 16" countdown pedestrian signal heads.	2 EA
8017	Remove and dispose of existing material & equipment per assignment.	1 EA
8028	Schedule 80 rigid PVC conduit up to 4" - trenched.	15 L.F.
8029	Detectable warning surfaces	48 S.F.
8034	No. 6 AWG stranded bare copper ground wire.	15 L.F.
8046	Install ground mounted sign.	2 SF
8047	Install overhead sign.	16 SF
8048	Video detector camera & cable up to 500'.	4 EA
8056	Electrical cable - 2 conductor (No. 14 AWG).	505 L.F.
8058	Electrical cable - 5 conductor (No. 14 AWG).	465 L.F.
8059	Electrical cable - 7 conductor (No. 14 AWG).	360 L.F.

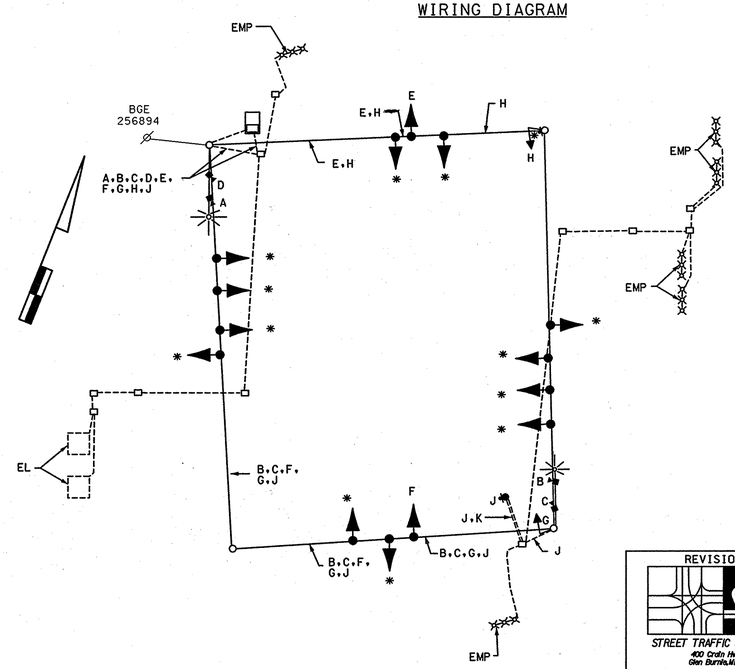
C. EQUIPMENT TO BE REMOVED

All removed signal materials are to become property of the contractor.

PHASE CHART

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

WIRING DIAGRAM



WIRING KEY

A, B, C, D } CONTROL CABLE (CAMERA TO CONTROLLER) UP TO 500'

E, F } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

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

J - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

K - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

EMP - EXISTING MICROLOOP LEAD-IN CABLE

EL - LOOP WIRE (NO. 14 A.W.G.) EXISTING

* - Use existing wiring

REVISION "G"

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy. NW.
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

5465g1.dgn T-137

PLOTTED: $DATETIME$
FILE: $FILE$

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

US 40 (PULASKI HIGHWAY) AT CHESACO AVENUE

ROSEDALE, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE 4/17/08 CONTRACT NO. XX4485185

DESIGNED BY JAMES ALLEN JR
DRAWN BY JAMES ALLEN JR
CHECKED BY
F.A.P. NO.

COUNTY BALTIMORE
LOGMILE 03004045.20
TIMS NO. 1837
TOD NO.

TS NO. 599G | DRAWING NO. 2 OF 2 | SHEET NO. OF

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