DRILL HOLES

BORDER REV: DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing mast arm pole Traffic Control Signal with street lighting at the intersection of US 40 (National Pike) and MD 63 (Greencastle Pike) in Washington County. MD 63 (Greencastle Pike) shall now operate as a side street split phase. US 40 (National Pike) is assumed to run an east-west direction.

II. INTERSECTION OPERATION

1. The intersection is to operate in a NEMA six-phase, fully-actuated mode, with the US 40 (National Pike) approaches continuing to run concurrently. Exclusive/Permissive left turn phases shall continue to be provided for both approaches of US 40 (National Pike). The pedestrian phases with pushbutton actuation across all legs of this intersection shall remain in opration. The MD 63 (Greencastle Pike) appraoches shall now operate in a split phase.

2. The existing full-traffic-actuated, eight-phase controller with all necessary housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

The contact persons for District #6 are as follows:

Mr. George Small
Assistant District Engineer - Traffic
Phone: (301) 729-8444

Mr. Georgr C. Frankenbury
Assistant District Engineer - Maintenance
Phone: (301) 729-8457

Mr. Larry Humbertson
Assistant District Engineer - Utility
Phone: (301) 729-8439

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

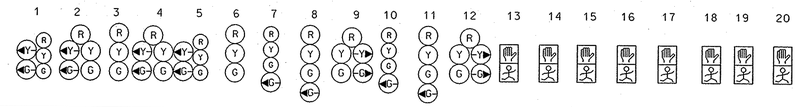
Mr. Ed Rodenhizer
Signal Shop
410-787-7652

EQUIPMENT LIST

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

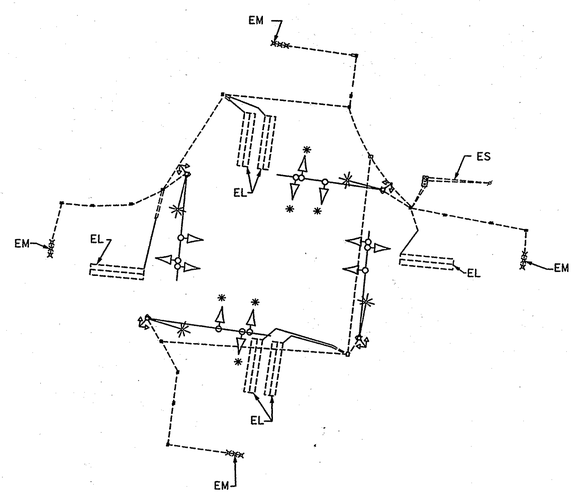
ITEM NO	DESCRIPTION	QUANTITY
	Maintenance of traffic per assignment.	1 EA
	Remove overhead sign.	3 EA
	12" LED signal head section.	20 EA
	8" LED signal head section.	6 EA
	Remove existing signal head.	6 EA

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PHASE 1 & 5	◄G-/R	◄G-/R	R	◄G-/R	◄G-/R	R	R	R	R/-G►	R	R	R/-G►	DW	DW	DW	DW	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/-G►	DW	DW	DW	DW	DW	DW	DW	DW
1 & 6 CHANGE	◄Y-/G	◄Y-/G	G	R	R	R	R	R	R	R	R	R/-Y►	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 & 5	R	R	R	◄G-/G	◄G-/G	G	R	R	R/-G►	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
2 & 5 CHANGE	R	R	R	◄Y-/G	◄Y-/G	G	R	R	R/-Y►	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 & 6 ALT	G	G	G	G	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEAR	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
2 & 6 ALT CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	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	DW	DW
3 CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	R	G ◄G-	G ◄G-	G ◄G-	DW	DW	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	DW	DW
PHASE 3 ALT	R	R	R	R	R	R	G ◄G-	G ◄G-	G ◄G-	R	R	R	DW	DW	DW	DW	DW	WK	WK	DW
PED CLEAR	R	R	R	R	R	R	G ◄G-	G ◄G-	G ◄G-	R	R	R	DW	DW	DW	DW	DW	FL/DW	FL/DW	DW
3 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	R	R	R	G ◄G-	G ◄G-	G ◄G-	DW	DW	DW	DW	WK	DW	DW	WK
PED CLEAR	R	R	R	R	R	R	R	R	R	G ◄G-	G ◄G-	G ◄G-	DW	DW	DW	DW	FL/DW	DW	DW	FL/DW
4 ALT CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	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	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

✱ - USE EXISTING WIRING

EM- EXISTING MICROLOOP LEAD-IN CABLE

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

ES- EXISTING SERVICE TO BE MAINTAINED BY ALLEGHENY POWER

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

US 40 (NATIONAL PIKE)
AND MD 63 (GREENCASTLE PIKE)

GENERAL INFORMATION SHEET

SCALE NONE DATE 11/26/07 CONTRACT NO.

DESIGNED BY JA
DRAWN BY RC
CHECKED BY
F.A.P. NO.

COUNTY WASHINGTON
LOGMILE #21004014.54
TIMS NO. I 365
TOD NO.

TS NO. 11996 | DRAWING NO. 2 OF 2 | SHEET NO. OF

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

547601.dgn

PLOTTED: $DATETIME$
FILE: $FILE$

...\5000's\5476\547601.dgn 11/26/2007 1:38:26 PM