DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV: DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with interconnect at the intersection of MD 212 (Riggs Rd) and Ray Road / Apt Driveway in Prince George's County. Countdown pedestrian signal heads with audible pushbuttons shall be installed across the south and west legs of this intersection. MD 212 (Riggs Rd) is assumed to run north-south direction.

II. INTERSECTION OPERATION

1. The intersection shall continue to operate in a NEMA five-phase, semi-actuated mode, with the MD 212 (Riggs Rd) approaches running concurrently. The Exclusive/Permissive left turn phase shall remain in operation for the northbound approach of MD 212 (Riggs Rd). The pedestrian phase with audible pushbutton actuation across the south leg of MD 212 (Riggs Rd) shall now be a Countdown pedestrian phase with audible pushbuttons. A new Countdown pedestrian phases with audible pushbuttons across Ray Road shall be on recall. The Ray Road / Apt Driveway approaches shall continue to run concurrently.

2. The full-traffic-actuated, eight-phase controller with video interface, 2-wire Control Unit and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

3. The Contractor shall deliver the Control Unit and audible pushbuttons to the SHA Signal Shop for testing and programming. Contact Mr. Ed Rodenhizer (41) 787-7652.

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.

The contact persons for District #3 (Prince George's County) are as follows:

Mr. Brian Young
Assistant District Engineer - Traffic
Phone: (301) 513-7318

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
Phone: (301) 513-7304

Mr. Augie Rebish
Assistant District Engineer - Utility
Phone: (301) 513-7350

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

Mr. Ed Rodenhizer
Signal Shop
410-787-7652

Sonny Bailey
Sign Shop
410-787-7670

EQUIPMENT LIST

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

ITEM NO.	DESCRIPTION	QUANTITY
9570	Sheet aluminum signs to consist of: (ground mount)	11.5 SF
	S2-1 "SCHOOL CROSSING (Symbolic)", sign (36" x 36")	1 EA
	M6-2 "arrow (symbolic)" left diagonal sign, (15" x 21")	1 EA
9571	Sheet aluminum signs to consist of: (mast arm or pole mount)	3 SF
	Pedestrian education R10-4(1) mod sign. (Note: Sign to read "PUSHBUTTON TO CROSS RAY ROAD") 9"X15"	2 EA
	Pedestrian education R10-4(1) mod sign. (Note: Sign to read "PUSHBUTTON TO CROSS RIGGS RD") 9"X15"	2 EA

EQUIPMENT LIST (CONT.)

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.
6001	Standard type A combination curb and gutter 12" gutter pan 8" depth.	90 L.F.
6002	4" concrete sidewalk.	455 S.F.
8008	Audible/tactile pedestrian pushbutton station & signs.	4 EA
8009	Breakaway Pedestal pole (10').	3 EA
8014	LED 16" countdown pedestrian signal head.	4 EA
8022	Remove and dispose of existing material and equipment per assignment.	1 EA
8035	Schedule 80 rigid PVC conduit up tp 4" - trenched.	40 L.F.
8036	Schedule 80 rigid PVC conduit up tp 4" - bored.	65 L.F.
8037	Wood sign supports up to 4"x6".	16 L.F.
8038	Detectable warning surfaces	48 S.F.
8039	Install overhead or ground mounted sign (including hardware).	14.5 S.F.
8041	No. 6 AWG stranded bare copper ground wire.	185 L.F.
8047	Furnish and install electrical handhole.	1 EA
8054	Electrical cable - 2 conductor (No. 14 AWG).	615 L.F.
8056	Electrical cable - 5 conductor (No. 14 AWG).	630 L.F.

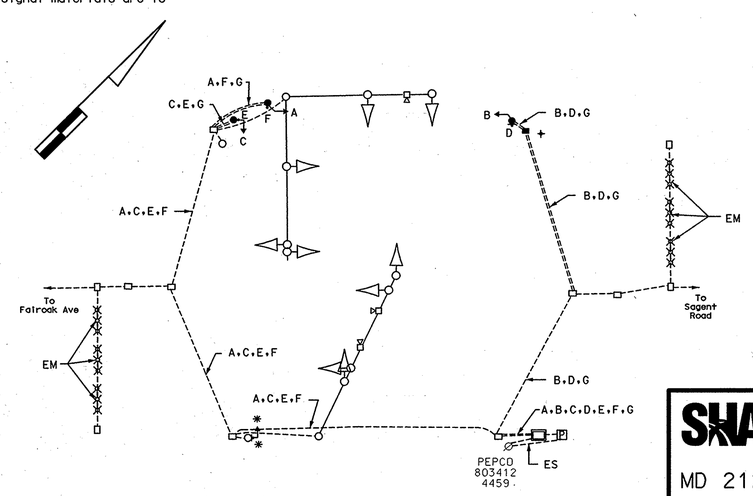
C. EQUIPMENT TO BE REMOVED

Contractor shall return pedestrian pushbuttons and signs to SHA signal shop. All other 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
PHASE 1 & 6	◄G-/G	◄G-/G	G	R	R	R	R	R	R	DW	DW	DW	DW
1 & 6 CHANGE	◄Y-/G	◄Y-/G	G	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 6	G	G	G	G	G	R	R	R	R	WK	WK	DW	DW
PED CLEAR / COUNTDOWN	G	G	G	G	G	R	R	R	R	FL/DW	FL/DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW
PHASE 4 & 8	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW
4 & 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 & 8 ALT	R	R	R	R	R	G	G	G	G	DW	DW	WK	WK
PED CLEAR / COUNTDOWN	R	R	R	R	R	G	G	G	G	DW	DW	FL/DW	FL/DW
4 & 8 ALT CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

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

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

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

✱ - USE EXISTING CABLE

EM - EXISTING MICROPROBE

ES - EXISTING UNDERGROUNDSERVICE TO BE MAINTAINED BY PEPCO

+ - GROUND ROD

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 212 (RIGGS RD) AND RAY RD

CHILLUM, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE 10/30/06 CONTRACT NO. AT9105185

DESIGNED BY J ALLEN
DRAWN BY R.C.
CHECKED BY
F.A.P. NO.

COUNTY PRINCE GEORGE'S
LOGMILE 16021200.60
TIMS NO. H596
TOD NO.

TS NO. 4337A G1 | DRAWING NO. 2 OF 2 | SHEET NO. OF

REVISION "A"

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

514991.dgn T-32

PLOTTED: $DATETIME$
FILE: $FILE$

...\5000's\5149\514991.dgn Nov. 01, 2006 08:16:21