

DRILL HOLES

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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 97 (Georgia Avenue) and Rossmoor Blvd in Montgomery County. The existing signal heads shall be replaced with LED signal heads and existing pedestrian signal heads with Countdown pedestrian signals. MD 97 (Georgia Avenue) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

- 1. The intersection operates in a NEMA six-phase, semi-actuated mode, with the MD 97 (Georgia Avenue) approaches running concurrently. The Exclusive left turn phase for the northbound and southbound approaches of MD 97 (Georgia Avenue) will continue to operate as normal. A Countdown pedestrian phase with audible pushbutton actuation shall be provided across the north leg of MD 97 (Georgia Avenue). A concurrent ped crossing will be provided for the East approach. The Countdown pedestrian phase with audible pushbuttons across Rossmoor Blvd shall be on recall. The Rossmoor Blvd approaches shall continue to operate in a side street split phase.
2. Montgomery County signal shop shall install APS control unit into controller cabinet. The Contractor shall deliver the Control Unit and audible pushbuttons to the Montgomery County Signal Shop for testing and programming at least two weeks prior to beginning work at this intersection.

III. SPECIAL NOTES

- 1. The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
2. All controller cabinet wiring will be performed by the Montgomery County Signal Shop. Contact Mr. Kamal Hamud at (240) 777-8761 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:

FOR MD 97 (GEORGIA AVENUE) NW and NE

- a. When pedestrian locates and presses pushbutton for an extended time, the pushbutton unit will announce "Wait to cross Georgia at Rossmoor - Second pushbuttons in median." "Wait to cross Georgia at Rossmoor - Second pushbuttons in median."
b. When WALK phase begins, the message will be a rapid tick which will last for the duration of the WALK phase.

FOR MD 97 (GEORGIA AVENUE) median

- a. When pedestrian locates and presses pushbutton for an extended time, the Second pushbuttons unit will announce "Wait to cross Georgia at Rossmoor"
b. When WALK phase begins, the message will be a rapid tick which will last for the duration of the WALK phase.

FOR ROSSMOOR BLVD

- a. When pedestrian locates and presses pushbutton for an extended time, the pushbutton unit will announce "Wait to cross Rossmoor at Georgia."
b. When WALK phase begins, the message will be a rapid tick which will last for the duration of the WALK phase.

The contact persons are as follows:

Mr. Jeff Wentz, Assistant District Engineer - Traffic, Phone: (301) 513-7358
Mr. Keith Lord, Chief, Montgomery County Signal Shop, Phone: 301-279-1291
Mr. Vernon Stinnett, Assistant District Engineer - Maintenance, Phone: (301) 513-7304
Mr. Kamal Hamud, Montgomery County, TMC, 240-777-8761
Mr. Augie Rebish, District Engineer - Utility, Phone: (301) 513-7350
Mr. Sonny Bailey, Chief, Sign Shop, 410-787-7676
Mr. Richard L. Daff, Sr., Chief, Traffic Operations Division, Phone: (410) 787-7630

EQUIPMENT LIST

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

Table with columns: ITEM NO., DESCRIPTION, QUANTITY. Includes items like Sheet aluminum signs, Pedestrian education R10-3(1), GUIDE SHIELD ASSEMBLY, R4-7 "KEEP RIGHT" pole mounted.

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

Table with columns: ITEM NO., DESCRIPTION, QUANTITY. Includes items like Maintenance of traffic per assignment, Class 2 Excavation, Test Pit Excavation, Removal of existing permanent pavement line markings, 12" white preformed thermoplastic pavement marking lines, 24" white preformed thermoplastic pavement marking lines, Standard type A combination curb and gutter, 5" concrete sidewalk, 12" LED signal head section, 2 wire Central Control unit, Audible/tactile pedestrian pushbutton station & signs, Breakaway pedestal pole, LED 16" countdown pedestrian signal head, Remove and dispose of equipment, Schedule 80 rigid PVC conduit, Detectable warning surface for curb ramps, Furnish and install electrical handhole, Electrical cable - 2 conductor, Electrical cable - 5 conductor, No. 6 AWG stranded bare copper ground wire, Install overhead or ground mounted sign.

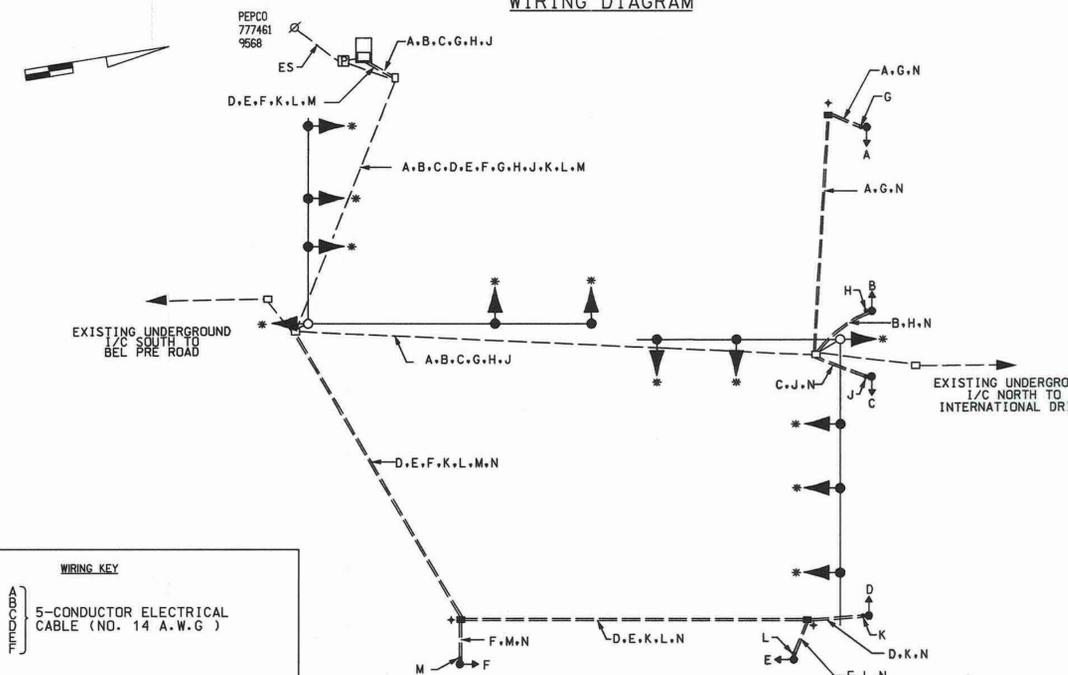
C. EQUIPMENT TO BE REMOVED

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

PHASE CHART

Phase chart table showing signal phases (1-18) and their corresponding light colors (R, Y, G, W) for various phases like PHASE 1 & 5, PHASE 1 & 6, PHASE 2 & 5, PHASE 2 & 6, PHASE 3, PHASE 4, PHASE 4 ALT, and FLASHING OPERATION.

WIRING DIAGRAM



WIRING KEY: 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.), 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.), N - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.), ES - EXISTING POWER SERVICE, * - USE EXISTING WIRING, + - GROUND ROD

REDLINE I, CORRECT APS PUSHBUTTON MESSAGE, STS STREET TRAFFIC STUDIES, LTD., 400 Crain Hwy., N.W., Glen Burnie, MD 21061, Ph (410) 590-5500, Fax (410) 590-6637, 5674.DGN T-222

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION, MD 97 (GEORGIA AVE) AND ROSSMOOR BOULEVARD NORBECK, MARYLAND, GENERAL INFORMATION SHEET, SCALE NONE DATE 5/11/09 CONTRACT NO. XX4275185, DESIGNED BY James Allen Jr., COUNTY MONTGOMERY, DRAWN BY James Allen Jr., LOGMILE 15009708.25, CHECKED BY, TMS NO. 1851, F.A.P. NO., TOD NO., TS NO. 1928E DRAWING NO. 2 OF 2 SHEET NO. OF