

DRILL HOLES

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PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a half Traffic Control Signal with street lighting and interconnect at the intersection of MD 355 (Rockville Pike) and North Wood Road in Montgomery County, Northbound and Southbound MD 355 (Rockville Pike) and the southbound MD 355 (Rockville Pike) left turn approaches shall be signalized. The North Wood Road approach shall operate as a triple right turn during the PM peak. MD 355 (Rockville Pike) is assumed to run in a north-south direction.

II. INTERSECTION OPERATION

- 1. The intersection is to operate in a NEMA two-phase, semi-actuated mode, with the MD 355 (Rockville Pike) northbound approach running in its own phase. Southbound MD 355 (Rockville Pike) shall have an Exclusive Flashing RED left turn phase. The North Wood Road approach shall operate as a westbound concurrent phase. A Countdown pedestrian phase with audible pushbuttons on recall shall be provided across the North Wood Road approach.
2. A full-traffic-actuated, eight-phase controller with video interface, L.A.U. and L.A.U. Panel and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.
3. Montgomery County Signal Shop shall install APS control unit into controller cabinet. The APS push buttons should be delivered to Bob Ricketts at the Montgomery County Technical Center for programming at least two weeks prior to the beginning of work.

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. Disconnecting and splicing of interconnect cable shall be performed by Montgomery County Forces. The contractor shall run the interconnect cable into the base of each cabinet and properly tag the cable. All controller cabinet wiring will be performed by Montgomery County Forces. Contact 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:
TO CROSS NORTH WOOD ROAD
a. When pedestrian locates and presses the pushbutton for an extended time, the pushbutton unit will announce the following message "Wait to cross North Wood at Rockville Pike wait."
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 contacts for Montgomery County and SHA are as follows:

- Mr. Cedric Ward, Assistant District Engineer - Traffic, Phone: (301) 513-7404
Mr. Richard L. Daff, Sr., Chief, Traffic Operations Division, Phone: (410) 787-7630
Mr. Vernon Stinnett, Assistant District Engineer - Maintenance, Phone: (301) 513-7304
Mr. Bob Ricketts, Signal Shop (Mont Co.), 240-876-3681
Mr. Victor Grafton, Assistant District Engineer - Utility, Phone: (301) 513-7350
Mr. Sonny Bailey, Manager, Sign Shop Operations, 410-787-7670
Mr. Kamal Hamud, Mont. County TMC Center, 240-777-8761
Mr. Steve Custer, PEPCO Customer Design, 201 W Guide Dr., Rockville, MD 20850, Phone: 301 548-4333

EQUIPMENT LIST

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

Table with 2 columns: DESCRIPTION and QUANTITY. Includes items like Maintenance of traffic (LUMP SUM), Test Pit Excavation (6 C.Y.), Concrete foundation (13 C.Y.), LED signal head sections (9 EA), steel poles (1 EA), PVC conduits (195 L.F.), weatherheads (1 EA), PVC risers (30 L.F.), and Metered Service pedestal (1 EA).

EQUIPMENT LIST

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

Table with 2 columns: DESCRIPTION and QUANTITY. Includes items like No. 6 AWG stranded bare copper ground wire (325 L.F.), electrical cables (50 L.F., 200 LF, 150 L.F., 700 L.F., 1100 L.F.), 250 watt HPS lamp (1 EA), lighting arm (1 EA), ground rods (6 EA), video camera (2 EA), LED signal heads (2 EA), breakaway pedestals (1 EA), and signs (1 EA, 1 EA, 1 EA, 1 EA, 2 EA, 1 EA, 4 EA, 16 LF, 128 LF, 1 EA, 1 EA, 65 L.F.).

EQUIPMENT LIST

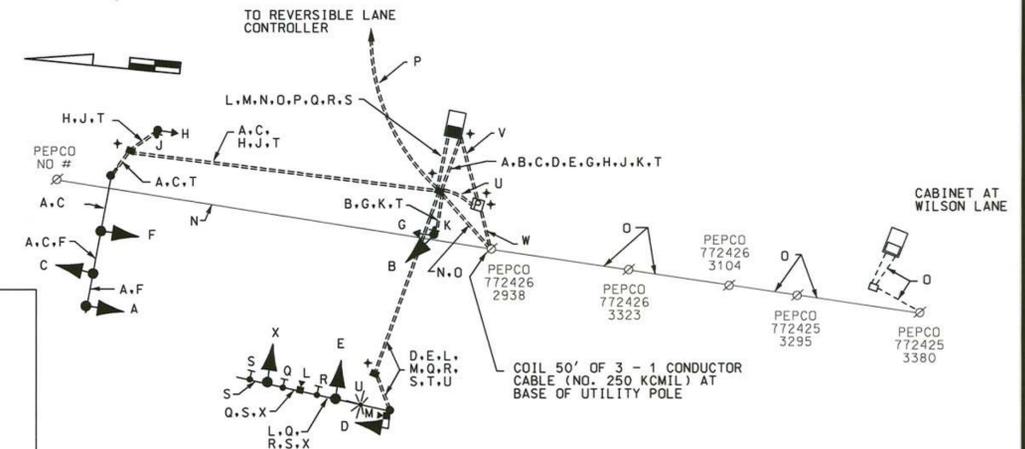
EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

Table with 2 columns: DESCRIPTION and QUANTITY. Includes Quick Curb with flex post (40 L.F.) and 12-pair communication cable (725 L.F.).

PHASE CHART

Phase chart table showing signal phases (PHASE 1 + CONC WBR, PHASE 2, PED CLEAR / COUNTDOWN, 2 CHANGE) for AM PEAK and PM PEAK. Columns include signal types (R, Y, G, FL, FR, etc.) and timing (DW, OFF, ON).

WIRING DIAGRAM



WIRING KEY table defining symbols for conductor electrical cables (A, F, J, K), control cables (L, M), interconnect cables (N, O), fiber optic cables (P, Q, R), ground wires (T), trays (U), and ground rods (W).

Redline Revision Dated April 28, 2011. SHA MDOT-SHA O.O.T.S. Approval Date T.S. # 4755 T.I.M.S. # K837

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION. MD 355 (ROCKVILLE PIKE) AND NORTH WOOD ROAD BETHESDA, MD

GENERAL INFORMATION SHEET table with fields for SCALE, DATE (3/15/11), CONTRACT NO. (BW996M82), DESIGNED BY (R.R.Z.), COUNTY (MONTGOMERY), DRAWN BY (R.C.), LOGMILE (15035503.15), CHECKED BY, TMS NO. (K837), F.A.P. NO., and TOD NO.



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