

DRILL HOLES

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EQUIPMENT LIST

Table with columns: SPECIFICATION NO., EQUIPMENT TO BE FURNISHED BY THE ADMINISTRATION / EQUIPMENT TO BE FURNISHED / INSTALLED BY THE CONTRACTOR, DESCRIPTION, QUANTITY. Includes items like traffic signal heads, control cabinets, and wiring materials.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT#3 (MONTGOMERY COUNTY) ARE AS FOLLOWS:

MR. JEFF WENTZ ASST. DISTRICT ENGINEER - TRAFFIC PHONE# (301) 513-7304

MR. WAYNE MOWDY ASST. DISTRICT ENGINEER - MAINTENANCE PHONE# (301) 513-7358

MR. AUGUSTINE REBISH ASST. DISTRICT ENGINEER - UTILITY PHONE# (301) 513-7350

MR. ED RODENHIZER SIGNAL SHOP SUPERVISOR PHONE# (401) 787-7652

MR. SONNY BAILEY SIGN SHOP PHONE# (410) 787-7676

THE POWER COMPANY REPRESENTATIVE IS:

MR. STEVE CUSTER PEPCO CUSTOMER DESIGN 201 W. GUDE DR. ROCKVILLE, MD PHONE# (310) 548-4333

PROJECT DESCRIPTION

I. GENERAL:

THIS PROJECT INVOLVES THE FOLLOWING IMPROVEMENTS TO THE INTERSECTION OF MD 124 (QUINCE ORCHARD ROAD) AND SIOUX LANE / ORCHARD RIDGE DRIVE:

- INSTALLATION OF ADA COMPLIANT PEDESTRIAN RAMPS
INSTALLATION OF COUNTDOWN PEDESTRIAN SIGNAL HEADS WITH AUDIBLE PUSHBUTTONS
REPLACEMENT OF EXISTING POLE-MOUNTED CONTROL CABINET WITH NEMA SIZE 6 BASE MOUNTED CONTROL CABINET

II. INTERSECTION OPERATION:

- A. MD 124 (QUINCE ORCHARD ROAD) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.
B. THE INTERSECTION WILL OPERATE IN A NEMA FOUR PHASE, SEMI-ACTUATED OPERATION WITH EAST/WESTBOUND (MD 124) APPROACHES OPERATING CONCURRENTLY. NORTHBOUND AND SOUTHBOUND APPROACHES (SIOUX LANE / QUINCE ORCHARD ROAD, RESPECTIVELY) WILL OPERATE CONCURRENTLY. A COUNTDOWN PEDESTRIAN PHASE WITH AUDIBLE PUSHBUTTON ACTUATION WILL BE PROVIDED ACROSS THE EAST LEG OF THE INTERSECTION.

III. CONTROLLER REQUIREMENTS:

- A. THE CONTROLLER ASSEMBLY WILL BE AN EIGHT PHASE FULLY ACTUATED NEMA CONTROLLER COMPLETE WITH SYSTEM PACKAGE AND MISCELLANEOUS AUXILIARY EQUIPMENT AS REQUIRED. A NEMA "6" BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS INTERSECTION.
B. 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 SIGNAL SHOP FOR TESTING AND PROGRAMMING. CONTACT MR. ROBERT RICKETTS AT (301) 279-1291 TO COORDINATE.

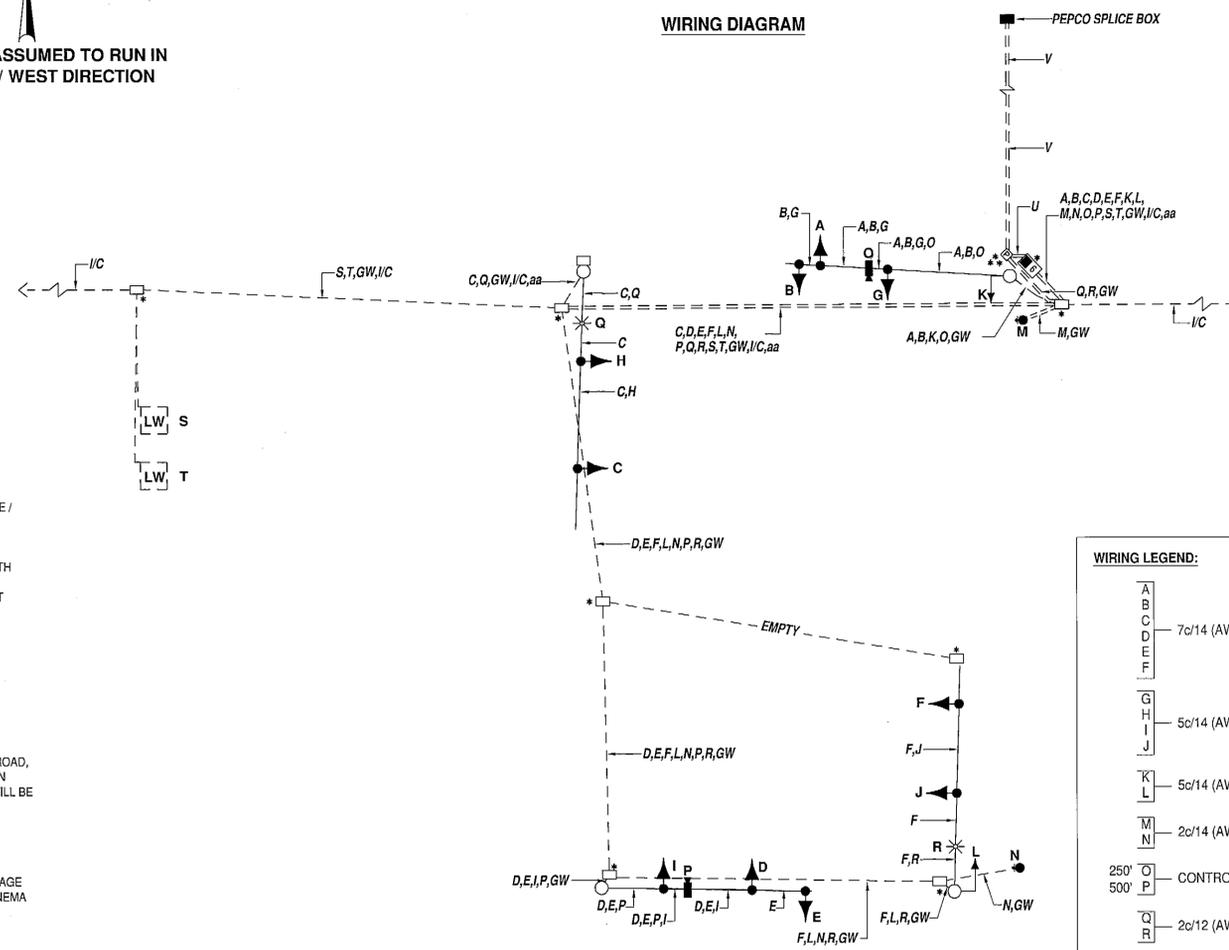
IV. SPECIAL NOTES:

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING CABLES, EXCLUDING COMMUNICATIONS INTERCONNECT. ALL CABLES SHALL BE APPROPRIATELY LABELED.
B. DISCONNECTING / TERMINATING INTERCONNECT CABLE SHALL BE PERFORMED BY MONTGOMERY COUNTY FORCES. THE CONTRACTOR SHALL RUN INTERCONNECT CABLE INTO THE BASE OF THE NEW CABINET AND PROPERLY TAG CABLE. ALL CONTROL CABINET WIRING WILL BE PERFORMED BY MONTGOMERY COUNTY FORCES. CONTACT KAMAL HAMUD AT (240) 777-8761 SEVENTY TWO (72) HOURS IN ADVANCE OF INTENDED WORK.
C. 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 UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR IDENTIFIES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT EXISTS, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED.

MD 124 IS ASSUMED TO RUN IN AN EAST / WEST DIRECTION



WIRING DIAGRAM



Signal timing table with columns for phases (2+6 CHANGE, PHASE 4+8, 4+8 CHANGE, PHASE 4+8 ALT., 4+8 PED CLEAR, 4+8 ALT. CHANGE, FLASH) and rows for directions (G, Y, R, G, Y, R, G, Y, R, G, Y, R, DW, W/K, DARK).

WIRING LEGEND: A-F 7c/14 (AWG) FOR TRAFFIC SIGNAL HEADS, G-H-I-J 5c/14 (AWG) FOR TRAFFIC SIGNAL HEADS, K-L 5c/14 (AWG) FOR PEDESTRIAN SIGNAL HEADS, M-N 2c/14 (AWG) FOR PEDESTRIAN PUSHBUTTONS, 250' 500' CONTROL CABLE (CAMERA TO CONTROLLER), Q-R 2c/12 (AWG) TRAY CABLE FOR EXISTING LUMINAIRES, S-T 2c/14 (AWG) (ALUMINUM SHIELDED) LOOP DETECTOR LEAD-IN, U THREE (3) 1c/4 (AWG) ELECTRICAL CABLES, V THREE (3) 1c NO.8 SERVICE CABLES, LW LOOP WIRE ENCLOSED IN FLEXIBLE TUBING, GW STRANDED BARE COPPER GROUND (NO. 6 AWG), I/C PROPOSED INTERCONNECT CABLE, aa INSTALLED BY MONTGOMERY COUNTY, * GROUND ROD

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION TRAFFIC SIGNAL MODIFICATION PLAN MD 124 (QUINCE ORCHARD ROAD) AT SIOUX LANE / ORCHARD RIDGE DRIVE GAITHERSBURG, MD

GENERAL INFORMATION SCALE 1"= 20' DATE 09-29-86 CONTRACT NO. BWRB2-801-312 DESIGNED BY MGD COUNTY MONTGOMERY DRAWN BY MGD LOGMILE 15012401.39 CHECKED BY D.J.D. T.I.M.S. NO. F.A.P. NO. TOD NO. DRAWING NO. 2069A SHEET NO. 2 OF 2

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