

DRILL HOLES  
BORNER REV: DATE: June 11, 2004

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PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing strain pole Traffic Control Signal with interconnect at the intersection of MD 177 (Mountain Rd) and MD 648 (Balt-Annapolis Blvd) / Jumpers Hole Road in Anne Arundel County. The existing Exclusive / Permissive left turn signal heads for both directions of MD 177 (Mountain Rd) shall be replaced with Exclusive left turn signal heads. Also all signal heads for the MD 177 (Mountain Rd) approaches shall be replaced with LED signal heads. MD 177 (Mountain Rd) is assumed to run an east-west direction.

II. INTERSECTION OPERATION

- 1. The intersection shall continue to operate in a NEMA eight-phase, fully-actuated mode, with the MD 177 (Mountain Road) approaches running concurrently. Exclusive left turn phases shall now be provided for both approaches of MD 177 (Mountain Road). The Exclusive/Permissive left turn phases for the MD 648 (Balt-Annapolis Blvd) / Jumpers Hole Road approaches shall remain in operation. The MD 648 (Balt-Annapolis Blvd) / Jumpers Hole Road approaches shall continue to run concurrently.
2. The existing full-traffic-actuated, eight-phase controller all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

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) 787-7652 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 #5 are as follows:

Ms. Kim Tran
Assistant District Engineer - Traffic
Phone: (410) 841-1819

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

Mr. John Mays
Assistant District Engineer - Maintenance
Phone: (410) 841-1013

Mr. Ed Rodenhizer
Signal Shop
410-787-7652

Mr. John Mays
Assistant District Engineer - Utility
Phone: (410) 841-1039

Mr. Sonny Bailey
Sign Shop
410-787-7676

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

Table with 3 columns: ITEM NO., DESCRIPTION, QUANTITY. Includes items like Sheet aluminum signs, R3-5L 'LEFT TURN ONLY' sign, GUIDE SHIELD ASSEMBLY, etc.

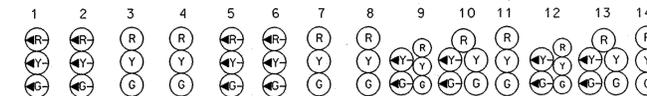
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

Table with 3 columns: ITEM NO., DESCRIPTION, QUANTITY. Includes items like Maintenance of traffic per assignment, 12" LED signal head section, Install overhead mounted sign, etc.

C. EQUIPMENT TO BE REMOVED

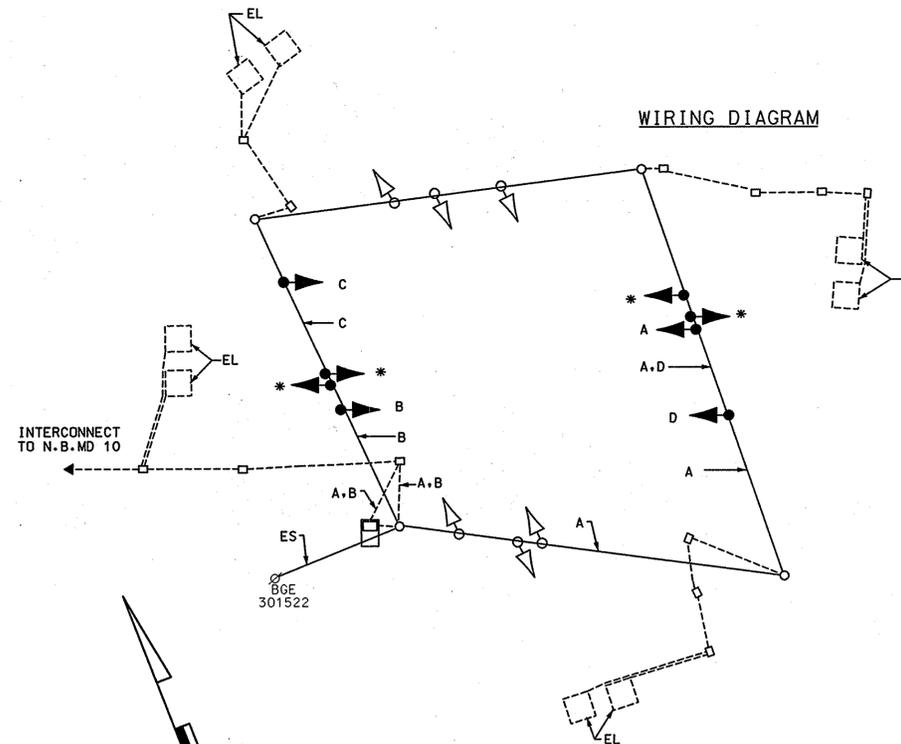
All removed signal materials are to become property of the contractor.

PHASE CHART



Phase chart table with columns for phases 1-14 and rows for phase combinations (e.g., PHASE 1 & 5, PHASE 1 & 6, etc.) and flashing operation.

WIRING DIAGRAM



WIRING KEY
A - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
B } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
D }
EL - LOOP WIRE (NO. 14 A.W.G.) EXISTING
ES - EXISTING OVERHEAD SERVICE TO BE MAINTAINED BY BGE

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION
MD 177 AND MD 648/E JUMPERS HOLE ROAD
GENERAL INFORMATION SHEET
SCALE NONE DATE 11/20/07 CONTRACT NO. AT9155185
DESIGNED BY JIMMY ALLEN COUNTY ANNE ARUNDEL
DRAWN BY ROB CICCHINI LOGMILE 02017700.80
CHECKED BY TMS NO. 1141
F.A.P. NO. TOD NO.
TS NO. 97HG1 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
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