

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of two firehouse Hazard Identification Beacons (H.I.B.'s) for the intersection of Jarrettsville Fire Station Driveway and MD 165 (Federal Hill Rd). One advance H.I.B. shall be placed for MD 165 southbound traffic and one advance H.I.B. shall be placed for MD 165 northbound traffic. MD 165 (Federal Hill Rd) is assumed to run in a north-south direction.

II. INTERSECTION OPERATION

- During normal operation, MD 165 (Federal Hill Rd) approaches shall continue unimpeded thru the intersection. During pre-emption operation the MD 165 (Federal Hill Rd) approaches shall flash "Y". There are no signals or signs regulating the Jarrettsville Fire Station Driveway.
- A full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- 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.
- 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.
- Upon completion of this project, the Contractor shall notify Mr. Robert Snyder at (410) 787-7631 to arrange for the phone line installation. The Contractor is to provide Mr. Robert Snyder with the nearest street address, zip code and phone number.
- The contractor shall furnish the Jarrettsville Fire Station #7 (Mr. Bill Grove) with three 700 Series Opticom Emitters.

The contact persons for District #4 are as follows:

Mr. Randall Scott
Assistant District Engineer - Traffic
Phone: (410) 321-2781

Mr. Steve Marciszewski
Assistant District Engineer - Maintenance
Phone: (410) 321-2761

Mr. Michael Pasquariello
Assistant District Engineer - Utility
Phone: (410) 321-2841

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

Mr. Ed Rodenhizer
Signal Shop
410-787-7652

Mr. Sonny Bailey
Sign Shop
410-787-7670

The power company representative is:

Mr. Steve Schneider
Baltimore Gas and Electric
7317 Parkway Drive South
Hanover, MD 21076
410-859-9310

EQUIPMENT LIST

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

| ITEM NO. | DESCRIPTION | QUANTITY |
|----------|--|----------|
| 9042 | Controller ASC II with telemetry | 1 EA |
| 9044 | Controller cabinet, size "6" | 1 EA |
| 9571 | Sheet aluminum signs to consist of: (mast arm) | 90 SF |
| | W96-7(1) "WATCH FOR EMERGENCY VEHICLES WHEN FLASHING" sign. (54"x120") | 2 EA |

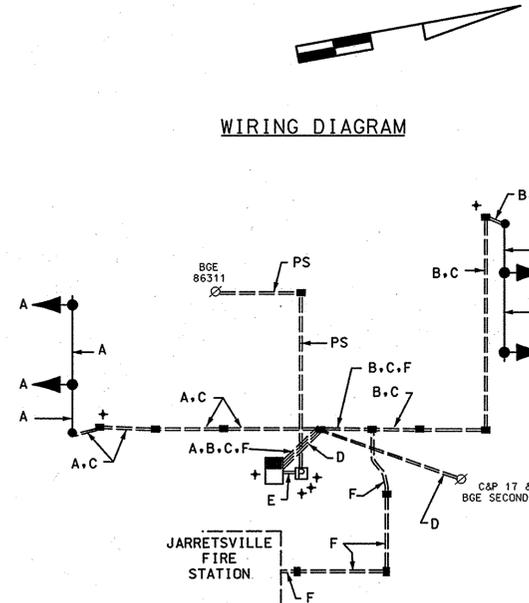
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

| ITEM NO. | DESCRIPTION | QUANTITY |
|----------|---|-----------|
| 1001 | Maintenance of traffic per assignment. | 1 EA |
| 2002 | Test Pit Excavation | 4 C.Y. |
| 6008 | Type C traffic barrier end treatment. | 2 EA |
| 8001 | Concrete foundation. | 9 C.Y. |
| 8004 | 12" yellow LED signal head section. | 4 EA |
| 8028 | Relocate sign. | 2 EA |
| 8039 | Firehouse pre-emption button assoc conduit & hardware. | 250 L.F. |
| 8044 | No. 6 AWG stranded bare copper ground wire. | 1260 L.F. |
| 8049 | 3" schedule 80 rigid polyvinyl chloride conduit - bored. | 330 L.F. |
| 8050 | 4" schedule 80 rigid polyvinyl chloride conduit - bored. | 120 L.F. |
| 8051 | 2" schedule 80 rigid polyvinyl chloride conduit - trenched. | 10 L.F. |
| 8052 | 3" schedule 80 rigid polyvinyl chloride conduit - trenched. | 1300 L.F. |
| 8053 | 4" schedule 80 rigid polyvinyl chloride conduit - trenched. | 30 L.F. |
| 8058 | Metered service pedestal. | 1 EA |
| 8061 | Electrical cable 1-conductor No. 4 AWG THHN/THWN. | 40 L.F. |
| 8067 | Furnish and install electrical handhole. | 12 EA |
| 8070 | Install overhead sign. | 90 SF |
| 8073 | Opticom emitter system 700 series. | 3 EA |
| 8077 | Furnish & install steel pole with a single 50' (cut to 30') mast arm. | 2 EA |
| 8091 | Ground rod 3/4" dia. x 10' length. | 6 EA |
| 8096 | Cut, clean, galvanize and cap traffic signal structure. | 2 EA |
| 8101 | Electrical cable - 5 conductor (No. 14 AWG). | 1670 L.F. |
| 8112 | Install controller and cabinet base mount. | 1 EA |

C. EQUIPMENT TO BE REMOVED

There is no equipment to be removed

THERE IS NO PHASE CHART FOR THIS PROJECT

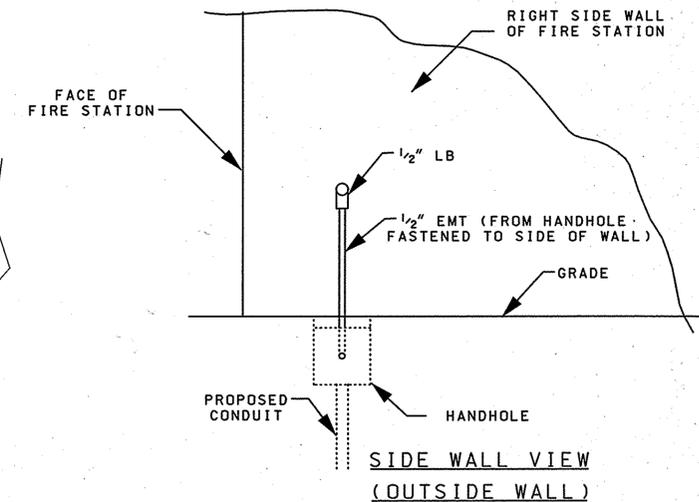
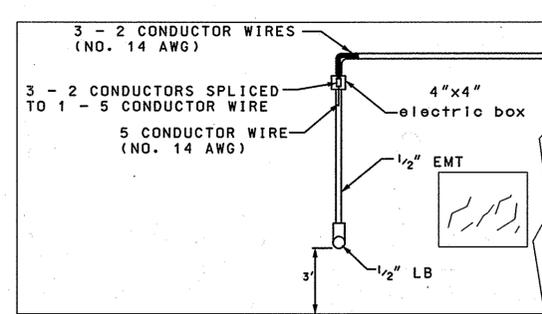


WIRING DIAGRAM

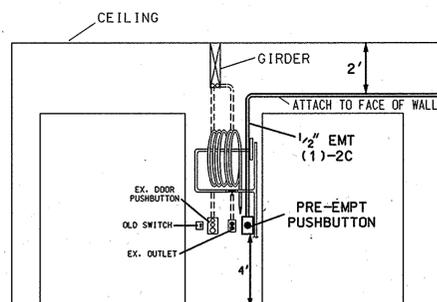
WIRING KEY

- A) 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B) STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- C - PROPOSED PHONE DROP
- D - 3-1 CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- E - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) FROM ELECTRIC BOX (FOR PUSHBUTTONS)
- PS - PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY BGE
- + - GROUND ROD

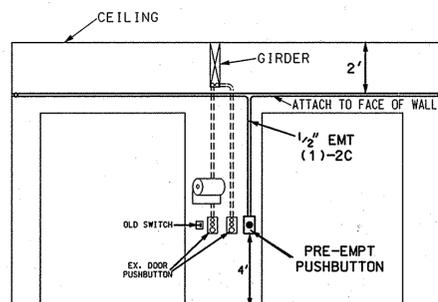
SIDE WALL



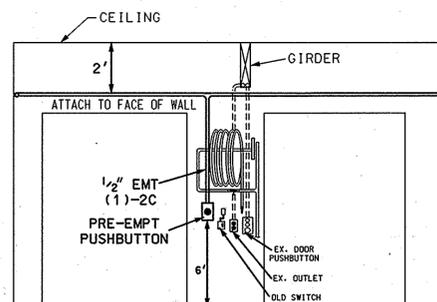
VIEW BETWEEN BAY DOORS 1&2



VIEW BETWEEN BAY DOORS 3&4



VIEW BETWEEN BAY DOORS 5&6



TOD No.: AT 717-23
SHA No.: HA 305A53/B53

ST
STREET TRAFFIC STUDIES, LTD.
403 Drury Hwy.,
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-6637
487761.dgn 06-39

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

**MD 165 JARRETTSVILLE
FIRE STATION # 7**
JARRETTSVILLE, MARYLAND

SCALE NONE DATE 2-13-06 CONTRACT NO. AT7175185

DESIGNED BY James Allen Jr. COUNTY HARFORD
DRAWN BY RC LOGMILE 12016507.49
CHECKED BY TMS NO. H065
F.A.P. NO. TOD NO.

TS NO. 4443-G1 DRAWING NO. 2 OF 2 SHEET NO. OF

DRILL HOLES

DRILL HOLES

DRILL HOLES

ORDER REV. DATE: June 1, 2004

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