

DRILL HOLES

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BORDER REV. DATE: June 1, 2004

NOTE: MD 648 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION AT THIS INTERSECTION.

The contact persons for District #5 are as follows:

- Ms. Kim Tran
Assistant District Engineer - Traffic
Phone: (410) 841-1003
- Mr. Charles George
Assistant District Engineer - Maintenance
Phone: (410) 841-1002
- Mr. John Ways
Assistant District Engineer - Utility
Phone: (410) 841-1005
- Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630
- Mr. Ed Rodenhizer
Signal Shop
210-787-7652

The power company representative is:
Mr. Steve Schneider
Baltimore Gas and Electric
7317 Parkway Drive South
Hanover, MD 21076
410-859-9310

CONSTRUCTION DETAILS

- A. Install 500' microloop probe set with lead-in cable.
- B. Install handhole.
- C. Install 1" liquid tight flexible non-metallic electrical conduit (detector wire sleeve).
- D. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
- E. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (bored).
- F. Use existing conduit.
- G. Use existing handhole.
- H. Use existing base-mounted cabinet and controller.
- J. Existing underground electrical service by BGE to remain.

GENERAL NOTES:

- This plan reflects only those underground utilities that were apparent at the time of this location being as built. A detailed review was not undertaken and the plan should not be construed as representing all underground utilities in the area.

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal at the intersection of MD 648 (Balt-Annapolis Blvd) and MD 170 in Anne Arundel County. A non-invasive microprobe set shall be installed on the eastbound approach of MD 170 as a result of resurfacing. MD 648 (Balt-Annapolis Blvd) is assumed to run a north-south direction.

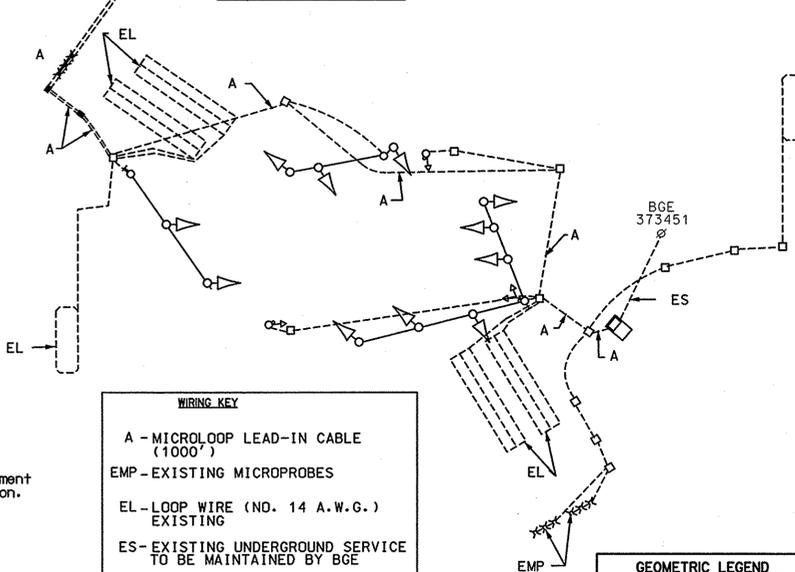
II. INTERSECTION OPERATION

- There is no change to the intersection operation.
- The existing full traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized 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.
- Any unused cable shall be removed from the existing conduits, handholes and controller cabinet.

WIRING DIAGRAM



WIRING KEY

- A - MICROLOOP LEAD-IN CABLE (1000')
- EMP - EXISTING MICROPROBES
- EL - LOOP WIRE (NO. 14 A.W.G.) EXISTING
- ES - EXISTING UNDERGROUND SERVICE TO BE MAINTAINED BY BGE

EXISTING SIGNS

18 Bell Grove Rd
Camp Meade Rd
D3-2

23 Bell Grove Rd
D3-2

26 Camp Meade Rd
D3-2

25,29 Balt.- Annap. BLVD
D3-2

EXISTING SIGNALS

1,6,9 2,4,7,10 3,5,8,11 12-15

NEMA PHASING

PHASING NOTES:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

MD 648 (BALTIMORE-ANNAPOLIS BOULEVARD)

MD 648 (BALTIMORE-ANNAPOLIS BOULEVARD)

MD 170 (CAMP MEADE ROAD)

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

THERE IS NO EQUIPMENT TO BE SUPPLIED BY THE SHA.

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
805115	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED	100 LF
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	135 LF
810605	NON-INVASIVE MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE	1 EA
811001	ELECTRICAL HANDHOLE	3 EA

PHASE CHART

THERE IS NO CHANGE TO THE EXISTING PHASING.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 648 (BALTIMORE-ANNAPOLIS BLVD)
AND MD 170 (CAMP MEADE RD)
PUMPHREY, MARYLAND

SCALE 1"= 20' DATE 5/5/76 CONTRACT NO. AA-215-501-585

DESIGNED BY D. DODA COUNTY ANNE ARUNDEL
DRAWN BY D. DODA LOGMILE 02017010.91
CHECKED BY _____ TMS NO. E837
F.A.P. NO. _____ TOD NO. _____

TS NO. 1408C DRAWING NO. 1 OF 1 SHEET NO. OF

GEOMETRIC LEGEND

PROPOSED	---
EXISTING	---
LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES	
AERIAL CABLE	—A—A—
ELECTRIC	—E—E—
TELEPHONE	—T—T—
GAS	—G—G—
SEWER	—S—S—
WATER	—W—W—
CABLE TV	—TV—TV—

REVISION 'D'

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy. NW
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

APPROVALS

TEAM LEADER _____
ASST. DIV. _____
DIVISION CHIEF _____
OFFICE DIRECTOR _____

REVISIONS

Ø 4-14-06	SHA NO. AA3585184
Ø 12-13-99	REPLACE ADVANCE DETECTION ON NORTH LEG OF MD 170
Ø 7-27-83	INSTALLATION OF PED HEADS AND PUSHBUTTONS AND ADJUSTMENT TO LOOP DETECTION TO HANDLE NEW WALKS
Ø 7-27-83	ADDITION OF EP LEFT TURN ON MD 170
Ø 7-27-83	ADDITION OF EP LEFT TURN ON MD 170
Ø 7-27-83	ADDITION OF EP LEFT TURN ON MD 170

PLOTTED: *DATE/TIME*
FILE: *FILES*