

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF SCHOOL ZONE HAZARD IDENTIFICATION BEACONS AT TWO (2) LOCATIONS ALONG MD 464 FOR THE PEDESTRIAN CROSSING AT FRAZER ROAD IN FREDERICK COUNTY. MD 464 RUNS IN AN EAST-WEST DIRECTION.

CONTROLLER REQUIREMENTS

A 2 - CHANNEL FLASHER HOUSED IN A TYPE G POLE MOUNTED CABINET SHALL BE INSTALLED EAST OF CUMMINGS DRIVE AND WEST OF FRAZER ROAD. THE H.I.B. WILL OPERATE IN A FLASHING MODE DURING SCHOOL HOURS.

EQUIPMENT LISTS

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

| ITEM | QUANTITY | DESCRIPTION |
|------|----------|---|
| 9037 | 2 EA | [UPDATED] CABINET "G" TYPE POLE MOUNT |
| 9570 | 75 SF | [UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN |
| | 1 EA | W3-5 36" X 36" |
| | 5 EA | S1-1 36" X 36" |
| | 1 EA | S4-3 24" X 8" |
| | 2 EA | W16-7P(L) 21" X 15" |
| | 2 EA | W16-7P(R) 21" X 15" |
| | 1 EA | S5-2 24" X 30" |
| | 1 EA | R2-1 24" X 30" |
| 9571 | 16 SF | [UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN |
| | 2 EA | S5-1 48" X 24" |

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

| ITEM | QUANTITY | DESCRIPTION |
|------|----------|--|
| 1001 | 1 EA | MAINTENANCE OF TRAFFIC PER ASSIGNMENT |
| 2002 | 2 CY | TEST PIT EXCAVATION |
| 6002 | 20 SF | 4 INCH CONCRETE SIDEWALK |
| 8001 | 4 EA | 12 INCH (R.Y.G.) LED SIGNAL HEAD SECTION |
| 8011 | 2 EA | BREAKAWAY PEDESTAL POLE - ANY SIZE |
| 8013 | 2 EA | EMBEDDED METERED SERVICE PEDESTAL |
| 8017 | 1 EA | REMOVE AND DISPOSE OF EQUIPMENT PER ASSIGNMENT |
| 8024 | 50 LF | UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED |
| 8026 | 150 LF | UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT -TRENCHED |
| 8027 | 20 SF | DETECTABLE WARNING SURFACES |
| 8030 | 2 CY | CONCRETE FOR SIGNAL FOUNDATION |
| 8031 | 100 LF | WOOD SIGN SUPPORTS 4 INCH X 4 INCH |
| 8033 | 170 LF | NO. 6 AWG STRANDED BARE COPPER GROUND WIRE |
| 8038 | 115 LF | ELECTRICAL CABLE 1 CONDUCTOR NO. 4 AWG THHN/THWN |
| 8044 | 2 EA | FURNISH AND INSTALL ELECTRICAL HANDHOLE |
| 8045 | 75 SF | INSTALL GROUND MOUNTED SIGN |
| 8046 | 16 LF | INSTALL OVERHEAD SIGN |
| 8052 | 6 EA | GROUND ROD 3/4 INCH DIAMETER X 10 FOOT LENGTH |
| 8059 | 20 LF | ELECTRICAL CABLE - 3 CONDUCTOR NO 14 AWG |
| 8068 | 2 EA | INSTALL CONTROLLER AND CABINET - POLE MOUNT |

The contact persons as follows:
PROJECT CONTACTS

Mr. David J. Coyne
District Engineer
301-624-8102

Mr. John Concannon
Assistant District Engineer - Traffic
301-624-8141

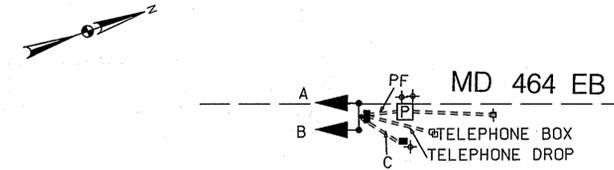
Ms. Andrea Abend
District - Utility Engineer
301-729-8436

Mr. Ray Johnson
Assistant District Engineer - Maintenance
301-624-8106

Mr. Richard L. Daff
Chief, Traffic Operations Division
410-787-7630

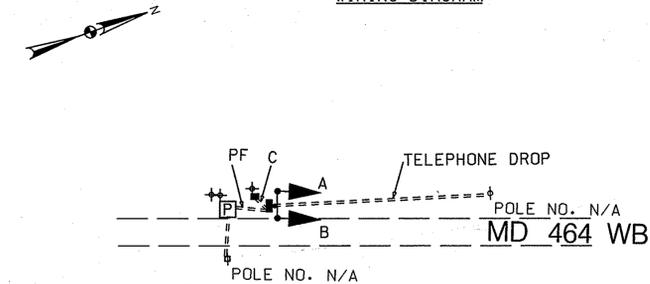
The Power Company Representative is:
Allegany Power Company
Mr. Joe Elliott
421 E. Patrick Street
Frederick, Maryland 21701
301-790-3297

WIRING DIAGRAM



- KEY**
- A) 3 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - B) 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
 - C) 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
 - PF) POWER SERVICE UNDERGROUND 3 RUNS 1 CONDUCTOR (NO. 8 AWG)
 - + GROUND ROD

WIRING DIAGRAM



- KEY**
- A) 3 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - B) 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
 - C) 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
 - PF) POWER SERVICE UNDERGROUND 3 RUNS 1 CONDUCTOR (NO. 4 AWG)
 - + GROUND ROD

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 464 AT BRUNSWICK HIGH
AND MIDDLE SCHOOL

BAI

BRUDIS & ASSOCIATES, INC.
CONSULTING ENGINEERS
9220 RUMSEY ROAD SUITE 110
COLUMBIA, MARYLAND 21045
410-884-3607 410-884-3609 (FAX)

| GENERAL INFORMATION SHEET | | | |
|---------------------------|------------------|-----------------|----------------------------|
| SCALE | N.T.S. | DATE | 06/12/07 |
| CONTRACT NO. | AT9255185 | | |
| DESIGNED BY | M. MEARS | COUNTY | FREDERICK |
| DRAWN BY | M. MEARS | LOGMILE | 10046401.03 TO 10046401.51 |
| CHECKED BY | R. MILSTEAD | T. I. M. S. NO. | 1029 |
| F.A.P. NO. | | TOD NO. | |
| DRAWING NO. | TS 4562 -- G1 OF | SHEET NO. | 2 OF 2 |

BY: SYOUNG2