

**PROJECT DESCRIPTION**

**GENERAL**

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 410 (EAST-WEST HIGHWAY) AND THE PRINCE GEORGE'S PLAZA ENTRANCES IN PRINCE GEORGE'S COUNTY, MARYLAND. MD 410 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

**INTERSECTION OPERATION**

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 410 APPROACHES OPERATING CONCURRENTLY AND THE PRINCE GEORGE'S PLAZA ENTRANCE/HYATTSVILLE METRO STATION ENTRANCE APPROACHES OPERATING SPLIT.

EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED FOR EASTBOUND AND WESTBOUND MD 410 APPROACHES.

AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS THE EAST LEG OF MD 410.

AN ALTERNATE PEDESTRIAN PHASE WILL BE PROVIDED ACROSS THE WEST LEG OF MD 410 AND PEDESTRIAN INDICATIONS WILL BE PROVIDED ACROSS PRINCE GEORGE'S PLAZA ENTRANCE AND HYATTSVILLE METRO STATION ENTRANCE.

**CONTROLLER REQUIREMENTS**

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED.

**APS NOTES**

APS WILL FUNCTION AS FOLLOWS:

MD 410 (EAST-WEST HIGHWAY)

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE MESSAGE WILL BE "WAIT TO CROSS EAST-WEST HIGHWAY".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

PRINCE GEORGE'S PLAZA

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE MESSAGE WILL BE "WAIT TO CROSS PRINCE GEORGE'S PLAZA".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

PRINCE GEORGE'S PLAZA METRO STATION

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE MESSAGE WILL BE "WAIT TO CROSS ENTRANCE TO METRO STATION".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

**EQUIPMENT LIST "A"**

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

| ITEM NO. | QUANTITY | DESCRIPTION  |
|----------|----------|--|
| 9571     | 19 S.F.  | SHEET ALUMINUM SIGNS TO CONSIST OF :   |
|          | - 4 EACH | R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS EAST-WEST HIGHWAY"     |
|          | - 2 EACH | R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS PRINCE GEORGE'S PLAZA" |
|          | - 2 EACH | R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS METRO STATION"         |
|          | - 1 EACH | D-3(1) SIGN (VARIABLE x 16 IN.) DUAL FACED - MAST ARM MOUNT                        |

**EQUIPMENT LIST "C"**

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

**MAINTENANCE OF TRAFFIC**

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

|   |  |
|---|--|
| STANDARD NO. MD-104.04-01 (SHOULDER WORK)       | STANDARD NO. MD-104.04-13 (LEFT TURN BAY CLOSURE)            |
| STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)   | STANDARD NO. MD-104.04-15 (INTERSECTION LEFT LANE, TURN BAY) |
| STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)  |  |
| STANDARD NO. MD-104.04-07 (CENTER LANE CLOSURE) |  |

**PROJECT CONTACTS**

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

|   |   |
|---|---|
| MR. BRIAN YOUNG<br>PHONE: (301) 513-7404<br>ASSISTANT DISTRICT ENGINEER - TRAFFIC (PRINCE GEORGE'S) | MR. AUGIE REBISH<br>DISTRICT UTILITY ENGINEER<br>PHONE: (301) 513-7350                  |
| MR. WAYNE MOWDY<br>ASSISTANT DISTRICT ENGINEER - MAINTENANCE<br>PHONE: (301) 513-7304               | MR. RICHARD L. DAFF, SR.<br>CHIEF, TRAFFIC OPERATIONS DIVISION<br>PHONE: (410) 787-7630 |

**EQUIPMENT LIST "B"**

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

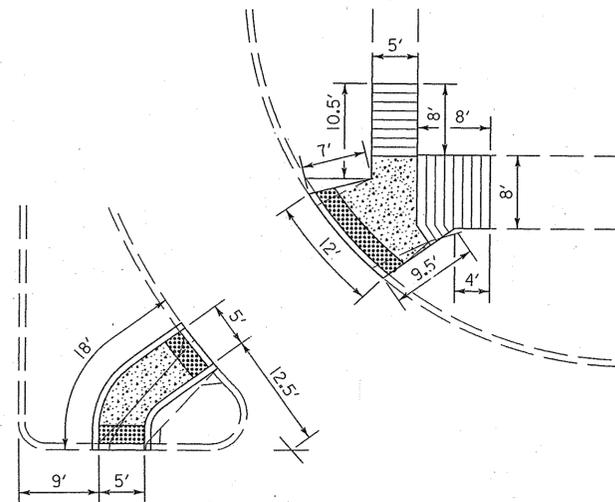
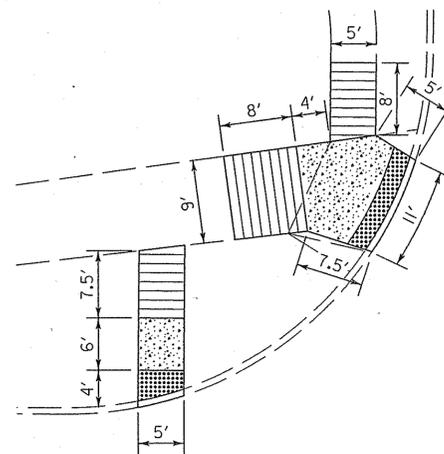
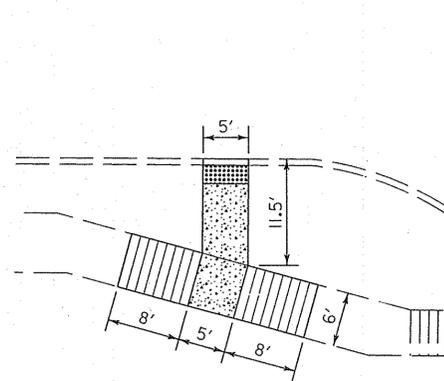
| ITEM NO. | QUANTITY  | DESCRIPTION  |
|----------|-----------|--|
| 1001     | 1 EACH    | MAINTENANCE OF TRAFFIC   |
| 2001     | 30 C.Y.   | CLASS 2 EXCAVATION   |
| 2002     | 7 C.Y.    | TEST PIT EXCAVATION  |
| 5003     | 420 L.F.  | 12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS |
| 5004     | 100 L.F.  | 24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS |
| 5005     | 575 L.F.  | REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH               |
| 6001     | 76 L.F.   | DEPRESSED CURB AND GUTTER  |
| 6002     | 30 L.F.   | STANDARD TYPE A COMBINATION CURB AND GUTTER                                    |
| 6003     | 930 S.F.  | 4 INCH CONCRETE SIDEWALK   |
| 8006     | 1 EACH    | 2-WIRE CENTRAL CONTROL UNIT  |
| 8014     | 8 EACH    | AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGN                           |
| 8015     | 7 EACH    | BREAKWAY PEDESTAL POLE (ANY SIZE)  |
| 8024     | 6 EACH    | LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL  |
| 8028     | 1 EACH    | REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT                          |
| 8037     | 95 S.F.   | DETECTABLE WARNING SURFACE   |
| 8040     | 7 C.Y.    | CONCRETE FOR SIGNAL FOUNDATION   |
| 8043     | 245 L.F.  | NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE                                  |
| 8047     | 10 L.F.   | 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED                                   |
| 8049     | 155 L.F.  | 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED                                |
| 8062     | 1 EACH    | FURNISH AND INSTALL ELECTRICAL HANDHOLE  |
| 8064     | 19 S.F.   | INSTALL OVERHEAD SIGN  |
| 8070     | 7 EACH    | GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH                                |
| 8074     | 2 EACH    | CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE                         |
| 8076     | 1610 L.F. | ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.)                                 |
| 8078     | 1495 L.F. | ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)                                 |

**DIMENSION DIAGRAM**

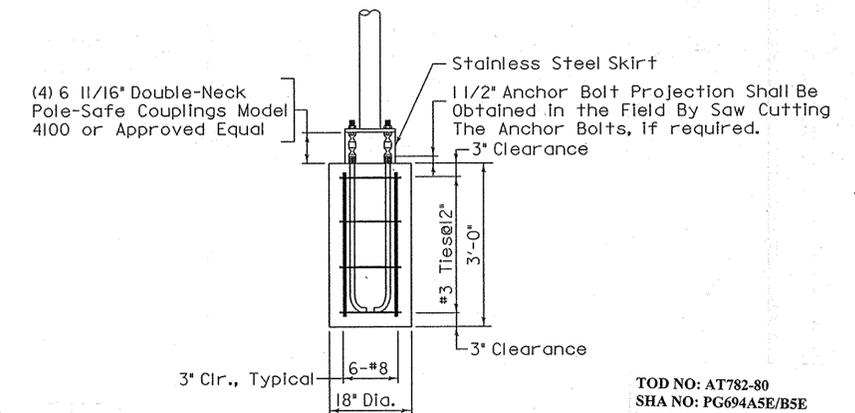
**SOUTHWEST CORNER**

**NORTHWEST CORNER**

**NORTHEAST CORNER**



**MODIFIED PEDESTAL POLE FOUNDATION**



TOD NO: AT782-80  
SHA NO: PG694ASE/B5E  
MD410@P.G.PLAZA/METRO STATION



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 410 (East-West Highway) and  
Entrance to Metro Station/Prince George's Plaza

**GENERAL INFORMATION SHEET - 02**

|                  |          |          |                 |              |           |
|------------------|----------|----------|-----------------|--------------|-----------|
| SCALE            | NONE     | DATE     | 11/02/2007      | CONTRACT NO. | AT7825185 |
| DESIGNED BY      | S. Bloss | COUNTY   | Prince George's |              |           |
| DRAWN BY         | S. Bloss | LOGMILE  | 16041002.16     |              |           |
| CHECKED BY       | N. Leary | TIMS NO. | H542            |              |           |
| FAP NO.          |          | TOD NO.  |                 |              |           |
| TS NO. 841E-GI-2 | DRAWING  | - OF     |                 | SHEET NO.    | 3 OF 3    |



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