

PROJECT DESCRIPTION

- I. General**  
 This portion of the project involves the installation of a temporary traffic control signal at the intersection of MD 100 and Executive Park Drive in Howard County, Maryland. The work shall be conducted in conjunction with the construction of MD 100. MD 100 is assumed to run in a east-west direction.
- II. Intersection Operation**  
 No change to the existing intersection operation is necessary.
- III. Special Notes**
- The following contact persons for District #7 are as follows:  

|  |   |
|--|---|
| Mr. Robert Fisher<br>District Engineer<br>(301) 694-2145                 | Mr. John Concannon<br>Asst. District Engineer - Traffic<br>(301) 694-2592 |
| Mr. Jim Brown<br>Utility Engineer<br>(301) 694 - 2025                    | Mr. Richard Daff<br>Chief, Traffic Operations Division<br>(410)787-7630   |
| Mr. Leon King<br>Asst. District Engineer - Maintenance<br>(301) 694-1966 |   |
  - Maintenance of traffic will be handled by the contractor utilizing the following standard plates for traffic control: 105.00, 105.01, 105.02, 105.03, 105.101, 105.103, 105.105, 105.107, 105.109.

EQUIPMENT LIST

A. Equipment to be supplied by the Administration and Installed by the Contractor

| Item No. | Quantity | Units  | Specification Section   | Description |
|----------|----------|--|---|-------------|
| 2        | EA       | 814  | 12 in. 1 way 3 section (R,Y,A,G) optically programmed signal head - mast arm mount. |             |
| 4        | EA       | 814  | 12 in. 1 way 3 section (R,Y,G) signal head - mast arm mount.                        |             |
| 87       | SF       | 813  | Sheet aluminum signs consisting of:   |             |
| 1        | EA       | R3-5(L), (30 in. x 36 in.) "Only" left turn arrow sign - mast arm mount.   |   |             |
| 1        | EA       | R3-5(R), (30 in. x 36 in.) "Only" right turn arrow sign - mast arm mount.  |   |             |
| 2        | EA       | D3-2 (VAR. x 16 in.) "Executive Park Drive" sign - mast arm mount          |   |             |
| 1        | EA       | M2-1 (21" x 15") "JCT" sign - ground mount                                 |   |             |
| 1        | EA       | M1-6 (24" x 24") "MD 100" sign - ground mount                              |   |             |
| 1        | EA       | R10-6C. (36" x 60") "PROCEED ON FLASHING RED AFTER STOP" - mast arm mount. |   |             |
| 2        | EA       | R3-5a (MOD) (60" x 36") - direction arrows - ground mounted.               |   |             |

EQUIPMENT LIST

B. Equipment to be furnished and/or Installed by the Contractor.

| Item No. | Quantity | Units | Specification Section   | Description |
|----------|----------|-------|---|-------------|
| 1        | EA       | 206   | Test pit excavation.  |             |
| 180      | LF       | 555   | Furnish and install 6 in. white preformed permanent pavement marking tape   |             |
| 75       | LF       | 555   | Furnish and install 12 in. white permanent preformed pavement marking tape. |             |

EQUIPMENT LIST (continued)

B. Equipment to be furnished and/or installed by the Contractor.

| Item No. | Quantity | Units | Specification Section | Description   |
|----------|----------|-------|-----------------------|---|
|          | 70       | LF    | 555                   | 24 in. white permanent preformed pavement marking tape.   |
|          | 5.0      | CY    | 801                   | Furnish and install concrete for signal pole foundation.  |
|          | 1        | EA    | 804                   | Furnish and install 3/4" x 10 ft. ground rod.   |
|          | 515      | LF    | 805                   | Furnish and install 2 in. schedule 40 rigid PVC conduit - Trenched.   |
|          | 205      | LF    | 805                   | Furnish and install 3 in. schedule 80 rigid PVC conduit - Trenched  |
|          | 80       | LF    | sp/805                | Furnish and install 3 in. schedule 80 rigid PVC conduit - slotted.  |
|          | 70       | LF    | 805                   | Furnish and install 1 in. liquid tight flexible non-metallic conduit for detector wire sleeve.                      |
|          | 1        | EA    | 806                   | Furnish and install 250 Watt high pressure sodium lamp and luminaire with photo cell.                               |
|          | 1960     | LF    | 810                   | Furnish and install electrical cable - 2 conductor (Aluminum shielded).   |
|          | 60       | LF    | 810                   | Furnish and install electrical cable - 5 conductor (No. 14 AWG).  |
|          | 830      | LF    | 810                   | Furnish and install electrical cable - 7 conductor (No. 14 AWG).  |
|          | 2100     | LF    | 810                   | Furnish and install loop wire encased in flexible tubing (No. 14 AWG).  |
|          | 450      | LF    | 810                   | Furnish and install electrical cable 2 - conductor (No. 12 AWG) copper type T/C                                     |
|          | 7        | EA    | 811                   | Furnish and install electrical handhole.  |
|          | 100      | LF    | 812                   | Furnish and install wood sign support 4 in. x 4 in.   |
|          | 51       | SF    | 813                   | Install overhead sign - for signals.  |
|          | 36       | SF    | 813                   | Install ground mount sign.  |
|          | 6        | EA    | 814                   | Install signal head - any type.   |
|          | 27       | EA    | SP.                   | Furnish and install Flex Post   |
|          | 570      | LF    | 815                   | Furnish and install saw cut for signal (loop detector).   |
|          | 1        | EA    | 818                   | Furnish and install 20 ft. lighting arm on signal structure   |
|          | 1        | EA    | sp                    | Furnish and install 27 ft. steel pole with twin 70 ft./50 ft. mast arm. (Note: Four - 2 in. x 90 in. anchor bolts). |

EQUIPMENT LIST (continued)

B. Equipment to be furnished and/or installed by the Contractor.

| Item No. | Quantity | Units         | Specification Section | Description  |
|----------|----------|---------------|-----------------------|--|
|          | 70       | LF            | SP.                   | Furnish and install 3 in. schedule 40 rigid PVC conduit - trenched |
|          | 1        | <del>EA</del> | SP.                   | Removal and disposal of existing traffic signal equipment.         |
|          | 1        | <del>EA</del> | SP.                   | Remove and salvage of traffic signal equipment                     |
|          | 1        | <del>EA</del> | SP.                   | Delivery of salvaged traffic signal equipment consisting of:       |
|          | 1        | EA            |                       | Controller and Cabinet - base mount                                |

|                    |       |                    |           |              |
|--------------------|-------|--------------------|-----------|--------------|
| F H W A REGION NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
| 3                  | MD    |                    | 416       | 529          |

SIG-5 TEMPORARY SIGNAL #2 PHASE IVB

|                    |  |  |  |  |  |   |  |
|--------------------|--|--|--|--|--|---|--|
| REVISIONS          |  | APPROVALS                                  |  | <b>MARYLAND DOT - STATE HIGHWAY ADMINISTRATION</b><br>Office of Traffic & Safety<br><b>TRAFFIC ENGINEERING DESIGN DIVISION</b> |  |   |  |
|                    |  | ASST. DIV. CHIEF, SIGNAL DESIGN SECTION    |  | ORIGINAL DRAWN BY <u>ROB CICCHINI</u>  |  | <b>MD 100 AT EXECUTIVE PARK DRIVE</b><br>GENERAL INFORMATION SHEET 2 OF 2 |  |
|                    |  | ASST. DISTRICT ENGINEER, TRAFFIC           |  | DES. BY <u>S. CHERNACK / D. PETERS</u>   |  |   |  |
|                    |  | CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION |  | CHK. BY <u>Bruce Tompson 11-7-96</u>   |  | LOG MILE _____ COUNTY: <u>HOWARD</u>                                      |  |
| DATE: <u>10/96</u> |  | F.A.P. NO. _____                           |  | SEE TITLE SHEET  |  | TS/FILE NO. _____   |  |
| SCALE: _____       |  | S.H.A. NO. _____                           |  | HO-661-502-770   |  | SHEET NO. <u>416</u> OF <u>529</u>  |  |



REDLINE NO. 9  
4/29/98

DEPUTY CHIEF ENGINEER, OFFICE OF TRAFFIC

FILE NAME: \PROJECTS\030102\CON SIGNAL PHASE I\DESIGN\030102.DWG