

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing intersection Control Beacon with street lighting at the intersection of MD 180 (Jefferson Pike) and Mt. Zion Road in Frederick County. MD 180 (Jefferson Pike) is being widened on the northwest quadrant of the intersection thereby requiring the relocation of one existing strain pole. The MD 180 (Jefferson Pike) is assumed to run an east-west direction.

II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA flashing operation with MD 180 (Jefferson Pike) flashing yellow while Mt. Zion Road flashes red.
- A pole mounted traffic controller with all necessary equipment shall remain in operation at this intersection.

III. SPECIAL NOTES

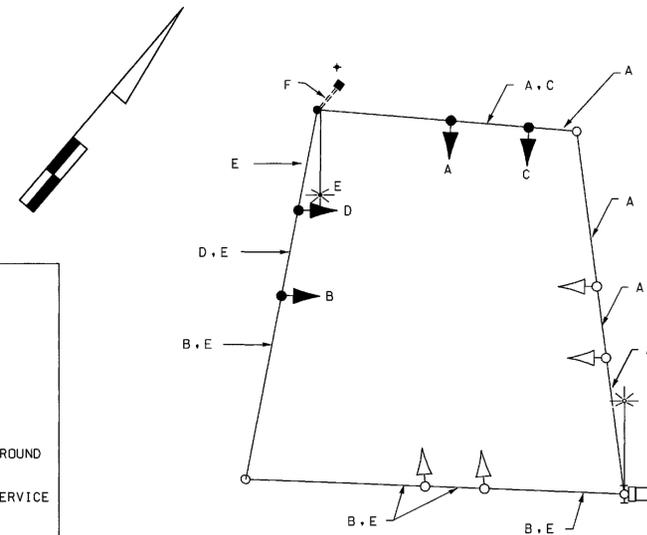
- The Contractor shall be responsible for terminating all signal cables to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer (Dave Swartz) at (410) 787-7650 seventy-two hours in advance 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.

EQUIPMENT LIST

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

SPEC. NUMBER	DESCRIPTION	QUANTITY
814	12", one-way, one-section (R) traffic signal head (Black Faced) having proper span wire hangers, balance adjusters and tunnel visors.	2 EA
814	12", one-way, one-section (Y) traffic signal head (Black Faced) having proper span wire hangers, balance adjusters and tunnel visors.	2 EA
205	Test pit excavation.	1 C.Y.
801	Furnish and install concrete for signal foundation.	3 C.Y.
805	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - trenched	20 L.F.
811	Furnish and install electrical handhole.	1 EA
810	Furnish and install 7-conductor electrical cable (No. 14 A.W.G.).	350 L.F.
810	Furnish and install 5-conductor electrical cable (No. 14 A.W.G.).	55 L.F.
810	Furnish and install ground rod - 3/4" x 10'.	1 EA
810	Furnish and install No. 6 AWG stranded bare copper ground wire.	25 L.F.
810	Furnish and install tray cable - 2 conductor (No. 12 AWG)	250 L.F.
	Relocate existing ground mounted sign. "STOP"	1 EA
	Relocate existing overhead sign	4 EA
818	Furnish and install 30' steel strain pole.	1 EA
806	Furnish and install 250 watt HPS Luminaire with photocell.	1 EA
	Furnish and install 20' lighting bracket arm for traffic signal structure.	1 EA
819	Furnish and install steel span wire, 3/8" diameter.	190 L.F.
	Remove and dispose of existing materials.	LUMP SUM

WIRING DIAGRAM



WIRING KEY

A	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
B	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
C	2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G.)
D	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
E	EXISTING UNDERGROUND SERVICE TO BE MAINTAINED BY ALLEGHENY POWER
+	GROUND ROD



**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
*Office of Traffic & Safety*  
**TRAFFIC ENGINEERING DESIGN DIVISION**  
 MD 180 @ MOUNT ZION ROAD  
 GENERAL INFORMATION SHEET

DRAWN BY: <b>ROB CICCHINI</b>	F.A.P. NO. _____	TS NO. _____
CHECKED BY: <b>R. R. Z.</b>	S.H.A. NO. _____	SHEET NO. <b>2 OF 2</b>
SCALE: <b>NONE</b>	COUNTY: <b>FREDERICK</b>	T.I.M.S. NO. _____
DATE: <b>3-29-02</b>	LOG MILE: <b>10018011.75</b>	