

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF AN INTERSECTION CONTROL BEACON AT THE INTERSECTION OF MD 140 AND SILO HILL ROAD IN FREDERICK COUNTY. MD 140 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A FLASHING MODE WITH THE MD 140 SIGNAL INDICATIONS FLASHING YELLOW AND THE SILO HILL ROAD SIGNAL INDICATIONS FLASHING RED.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER IN A POLE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

PHASE CHART

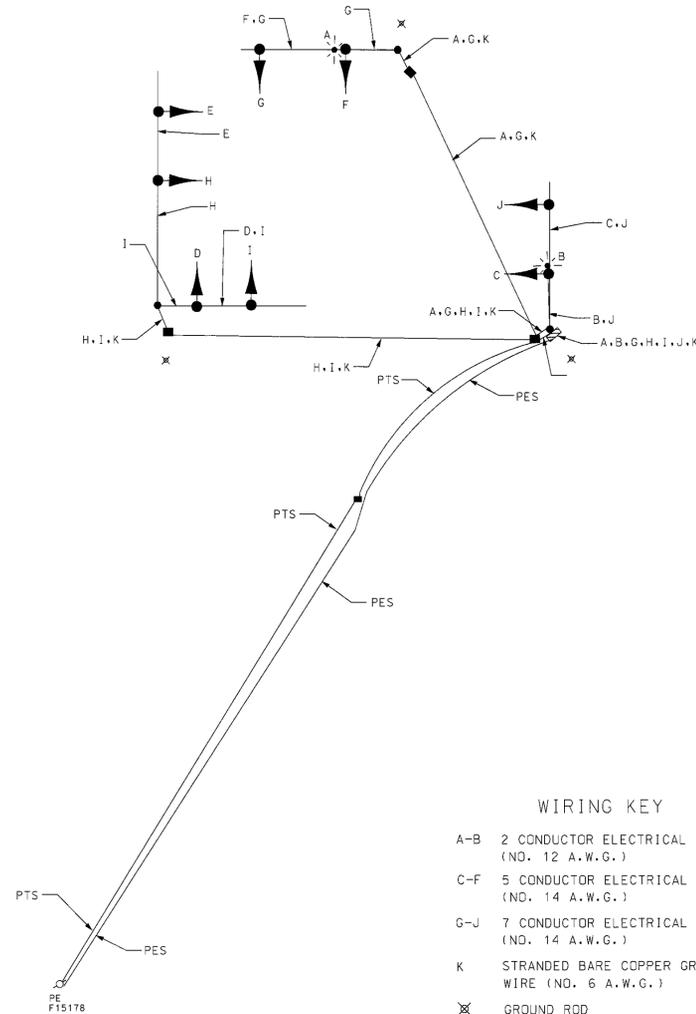


EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO DOT'S FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	3 EA	TEST PIT EXCAVATION
8006	1 EA	CUT, CLEAN, AND GAP TRAFFIC SIGNAL STRUCTURE
8011	8 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
8013	2 EA	FURNISH AND INSTALL 15 FT. STREET LIGHTING ARM FOR SIGNAL POLE
8014	2 EA	FURNISH AND INSTALL 250 WATT HPSV LUMINAIRE
8020	1 EA	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT FOR SIGNAL
8021	1 EA	FURNISH AND INSTALL 38 FT. MAST ARM AND POLE
8024	1 EA	FURNISH AND INSTALL 70 FT. MAST ARM AND POLE
8034	1 EA	FURNISH AND INSTALL 50 FT./60 FT. TWIN MAST ARMS AND POLE
8052	380 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
8053	40 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
8057	13 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8060	375 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
8063	160 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
8070	50 LF	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR NO.4 AWG
8072	5 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8080	3 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER X 10 FT. LENGTH
8084	100 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR NO. 14 AWG
8085	910 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR NO. 14 AWG
8086	310 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR NO. 12 AWG
8092	1 EA	FURNISH AND INSTALL CONTROLLER AND CABINET - POLE MOUNT
---	2 EA	FURNISH AND INSTALL D3-2 DUAL FACED SIGN (VAR. X 16 IN.) MAST ARM MOUNT
---	2 EA	FURNISH AND INSTALL M95-1 SIGN (78 IN. X 24 IN.) MAST ARM MOUNT
8091	75 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED

WIRING DIAGRAM



WIRING KEY

- A-B 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
- C-F 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- G-J 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- K STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- ⊗ GROUND ROD
- PES PROPOSED ELECTRIC SERVICE
- PTS PROPOSED TELEPHONE SERVICE

EQUIPMENT LIST "A"

A. APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

CONTACT PERSONS FOR DISTRICT 7 ARE AS FOLLOWS:

MR. JOHN CONCANNON ASSISTANT DISTRICT ENGINEER - TRAFFIC (301) 624-8141
 MR. DAVE COYNE ASSISTANT DISTRICT ENGINEER - MAINTENANCE (301) 624-8106

MR. JIM BUCKALEW ASSISTANT DISTRICT ENGINEER - UTILITIES (301) 624-8110

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR. CHIEF, TRAFFIC OPERATIONS (410) 787-7630

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS (410) 787-7631

MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS (410) 787-7652

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

TRAFFIC CONCEPTS, INC.

325 Gambrells Road
 Suite E
 Gambrells, MD 21054
 (410) 923-7101

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
 Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
 GENERAL INFORMATION
 MD 140 AT SILO HILL ROAD

DRAWN BY: M.HOWELL	F.A.P. NO. 4209-A-GI	TS NO. 4209-A-GI	SHEET NO. 2 OF 2
CHECKED BY: T.ZAYDEL	S.H.A. NO. BW996M82	T.I.M.S. NO. F046	
SCALE: NONE	COUNTY: FREDERICK	LOG MILE: 2	
DATE: 7-23-03			