

**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.

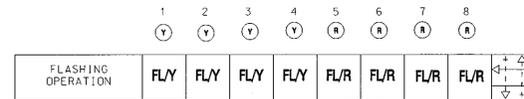
**CONTROLLER REQUIREMENTS**

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**

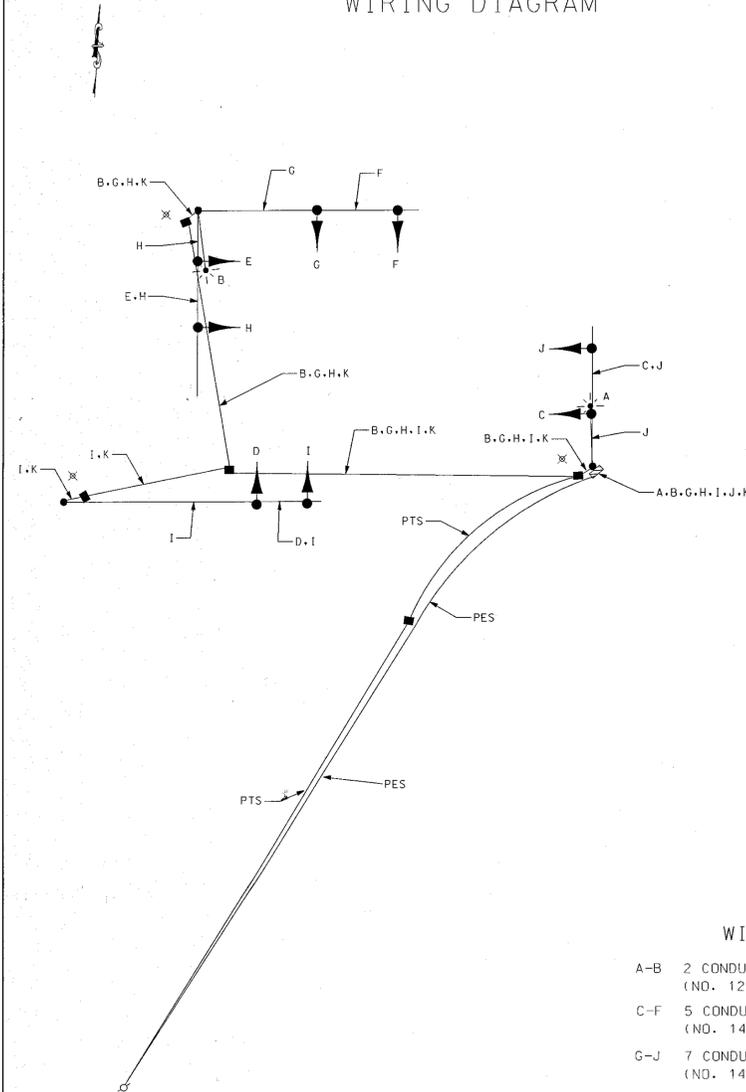


**EQUIPMENT LIST "B"**

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS 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 CAP 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.)
- X 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
- 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

**CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY**

**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 Gambrills Road  
Suite E  
Gambrills, 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. _____	TS NO. 4209	SHEET NO. 2 OF 2
CHECKED BY: T.ZAYDEL	S.H.A. NO. _____	BW996M82	
SCALE: NONE	COUNTY: FREDERICK	T.I.M.S. NO. F046	
DATE: 2-26-03	LOG MILE: _____		