

**PROJECT DESCRIPTION**

THIS PROJECT INVOLVES THE INSTALLATION OF A HAZARD IDENTIFICATION BEACON IN THE CONCRETE MEDIAN OF MD 26 AND LIBERTY COURT SHOPPING CENTER IN BALTIMORE COUNTY.

**H.I.B. OPERATION**

A TWO CIRCUIT FLASHER UNIT HOUSED IN A POLE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE YELLOW TRAFFIC SIGNAL HEADS MOUNTED AT THE TOP OF THE PEDESTAL POLE SHALL FLASH ALTERNATELY AT ALL TIMES. PEDESTRIAN CROSSING SIGNS (W11A-2) AND DIRECTIONAL ARROW SIGNS (W16-7P) SHALL BE PLACED ON THE PEDESTAL POLE FOR BOTH EAST AND WESTBOUND APPROACHES ALONG MD 26.

**SPECIAL NOTES**

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

**PROJECT CONTACTS:**

- MR. RANDAL SCOTT, ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 321-2841
- MR. DANIAL WITT, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
PHONE: (410) 321-2821
- MR. STEVE MARCISZEWSKI, ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 321-2761
- MS. SUENETTE POPE, UTILITY ENGINEER  
PHONE: (410) 321-2841
- MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630

**EQUIPMENT LIST**

**A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.**

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
900000	SHEET ALUMINUM POLE MOUNTED SIGNS CONSISTING OF: W11-2(36"x36") POLE MOUNT W16-7PL(36"x12") POLE MOUNT	SF	13
971040	TWO CIRCUIT FLASHER AND CABINET - POLE MOUNT	EA	2
		EA	1

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

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	1
210026	REMOVAL OF EXISTING SIDEWALK	CY	9
655105	5 INCH CONCRETE SIDEWALK	SF	40
801004	CONCRETE FOR SIGNAL FOUNDATION	CY	1
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	70
802502	NO. 4 AWG STRANDED BARE COPPER GROUND WIRE	LF	10
805125	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	10
805140	4 INCH SCHED. 80 RIGID PVC CONDUIT-TRENCHED	LF	20
805145	2 INCH SCHED. 80 RIGID PVC CONDUIT-SLOTTED	LF	35
807202	METERED SERVICE PEDESTAL	EA	1
810022	ELECTRICAL CABLE 1-CONDUCTOR, NO. 8 AWG-THHN/THWN	LF	115
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	1
813015	INSTALL OVERHEAD SIGN	SF	13
818010	14 FOOT BREAKAWAY PEDESTAL POLE	EA	1
821003	BREAKAWAY BASE SUPPORT FOR SIGNAL STRUCTURES	EA	1
834001	CONNECTOR KIT TYPE 1	EA	2
837001	F&I GROUND ROD -3/4 IN. DIAMETER X 10 FT. LENGTH	EA	4
860284	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	4
861106	ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)	LF	70
871040	INSTALL TWO CIRCUIT FLASHER AND CABINET - POLE MOUNT	EA	1

**CONSTRUCTION DETAILS**

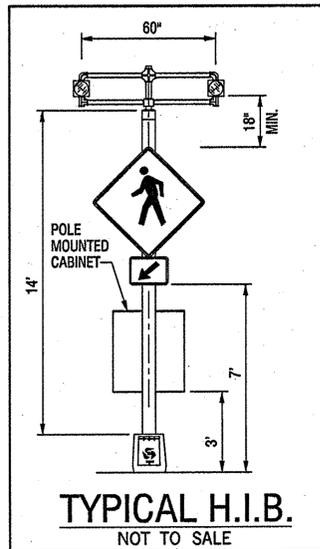
- A. INSTALL CONCRETE FOUNDATION WITH 14 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, POLE MOUNTED SIZE "6" CABINET, TRAFFIC SIGNAL HEADS AND SIGNS. (NOTE: TWO 2 IN. PVC SCHEDULE 80 CONDUIT BEND).
- B. REMOVE EXISTING SIDEWALK, INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT-TRENCHED FOR ELECTRICAL SERVICE. STUB OUT CONDUIT BEND AT BASE OF UTILITY POLE, THEN REPLACE THE SIDEWALK WITH 5 IN. CONCRETE SIDEWALK
- C. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
- D. INSTALL HANDHOLE.
- E. INSTALL 100 AMP METER SERVICE PEDESTAL.
- F. PRIOR TO THE INSTALLATION OF THE CONCRETE MEDIAN AND AFTER THE CLASS II EXCAVATION THE CONTRACTOR SHALL INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT-TRENCHED.
- G. REMOVE EXISTING SIDEWALK, INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED, THEN REPLACE THE SIDEWALK WITH 5 IN. CONCRETE SIDEWALK.

**GEOMETRIC LEGEND**

--- EXISTING  
= PROPOSED

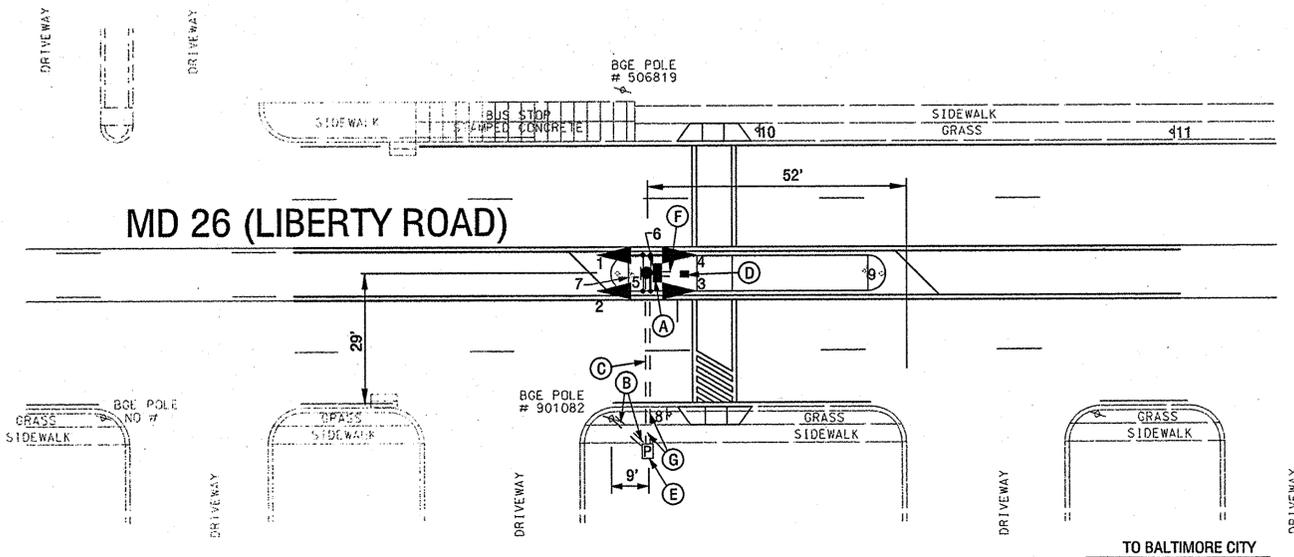
**UTILITY LEGEND**

SD --- STORM DRAIN  
G --- GAS MAIN  
W --- WATER MAIN  
SAN --- SEWER MAIN  
E --- ELECTRIC CABLES  
A --- AERIAL CABLES  
T --- TELEPHONE CABLES  
FO --- FIBER-OPTIC



MD 26 IS ASSUMED TO RUN IN A EAST / WEST DIRECTION

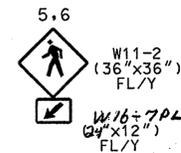
**LIBERTY COURT SHOPPING CENTER**



**SIGNS TO BE INSTALLED BY OTHERS**



**PROPOSED SIGNS**



**PROPOSED SIGNALS**



NOTE: FOR INSTALLATION OF SIGNS REFER TO PLAN SHEETS PS01 THROUGH PS04 OF THE CONTRACT DOCUMENTS

**MD 26 (LIBERTY ROAD)**

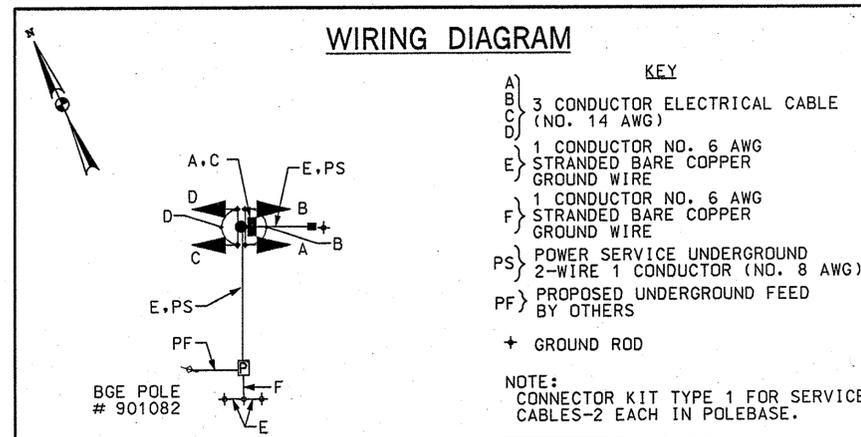
**PEDESTRIAN ISLAND 'C'**

NOT TO SCALE

**GENERAL NOTES**

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
3. ALL TRAFFIC SIGNAL FOUNDATION SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL EQUIPMENT.
4. FOR INSTALLATION OF ADA RAMPS, CROSSWALK STRIPING AND CONCRETE MEDIAN ISLANDS REFER TO PLAN SHEETS PS01 THROUGH PS04 OF THE CONTRACT DOCUMENTS.

**WIRING DIAGRAM**



TCD 3

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
**MD 26 (LIBERTY ROAD) AT  
LIBERTY COURT SHOPPING CENTER (H.I.B.)**  
BALTIMORE, MARYLAND

APPROVALS	REVISIONS	TRAFFIC CONTROL DEVICE	
Team Leader: [Signature]		SCALE NONE	DATE 6/10/05 CONTRACT NO. BA4845176
ASST. DIV. CHIEF: [Signature]		DESIGNED BY S. SMITH	COUNTY BALTIMORE
DIVISION CHIEF: [Signature]		DRAWN BY S. SMITH	LOGMILE 03026006.25
OFFICE DIRECTOR: [Signature]		CHECKED BY S. RENZI	T.I.M.S. NO. G503
		F.A.P. NO. N/A	TOD NO. N/A
		DRAWING NO. TS-4405	SHEET NO. OF

**SABRA, WANG & ASSOCIATES, INC.**  
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