

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF FIREHOUSE HAZARD IDENTIFICATION BEACONS ON NORTHBOUND AND SOUTHBOUND MD 30 (HANOVER PIKE) APPROACHING ARCADIA AVENUE FOR THE ARCADIA VOLUNTEER FIRE DEPARTMENT IN BALTIMORE COUNTY. MD 30 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE HAZARD IDENTIFICATION BEACONS WILL BE ACTUATED WITH OPTICOM DETECTION LOCATED ON ARCADIA AVENUE.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER, INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

SPECIAL NOTE

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

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9044	1 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER, RELAY AND INTERSECTION MONITOR II WITH BATTERY BACK-UP FOR PHONE DROP HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET
9571	72 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 2 EACH W96-7 SIGN (108 IN. x 48 IN.) - MAST ARM MOUNT

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	4 C.Y.	TEST PIT EXCAVATION
6005	400 L.F.	TRAFFIC BARRIER W BEAM
6008	2 EACH	TYPE I TRAFFIC BARRIER END TREATMENT
6009	10 EACH	W BEAM BARRIER REFLECTIVE DELINEATOR
8001	13 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8015	2 EACH	MAST ARM POLE (15' T) AND 60 FT. MAST ARM
8018	1 EACH	PEDESTRIAN POLE (ANY SIZE)
8019	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
8023	1425 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 12 A.W.G.)
8029	1425 L.F.	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8035	100 L.F.	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8037	30 L.F.	FURNISH AND INSTALL 2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8038	1175 L.F.	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8039	50 L.F.	FURNISH AND INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8045	1 EACH	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 V, 60 AMPS
8046	45 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 AWG) - THHN/THWN
8052	10 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8055	72 S.F.	INSTALL OVERHEAD SIGN
8057	1 EACH	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 76
8058	3 EACH	OPTICOM EMITTER SYSTEM, 700 SERIES
8059	1 EACH	OPTICOM NO. 721 DETECTOR EYE
8073	4 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 INCH x 10 FOOT LENGTH
8075	4 EACH	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8078	2 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8083	40 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8094	1 EACH	INSTALL CONTROLLER AND CABINET - BASE MOUNT
NEG.	2 EACH	TYPE C TRAFFIC BARRIER END TREATMENT

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

- STANDARD NO. MD-104.00 - 104.00-30 STANDARD NO. MD-104.32-01 (INTERSECTION FLAGGING OPERATION)
- STANDARD NO. MD-104.31-01 (FLAGGING OPERATION)
- STANDARD NO. MD-104.33-01 (SHOULDER WORK)
- STANDARD NO. MD-104.35 (LANE SHIFT)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781/2785

MRS. SUENETTE POPE
DISTRICT UTILITIES ENGINEER
PHONE: (410) 321-2841

MR. STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-2761

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

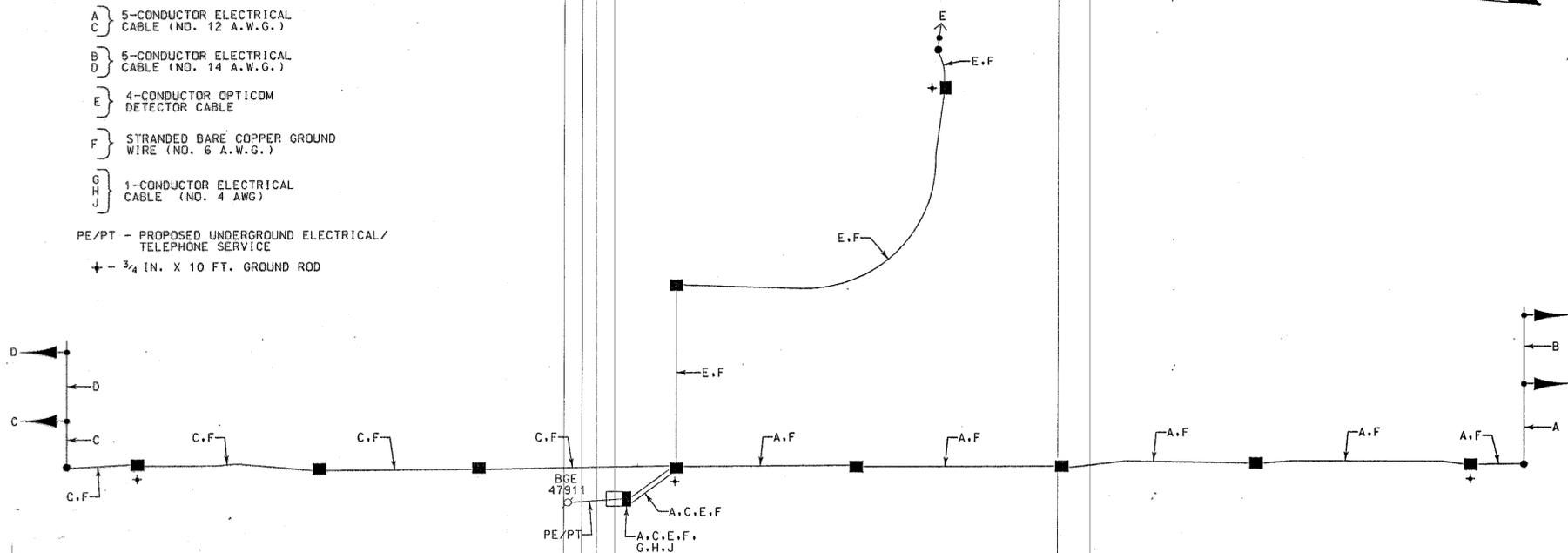
WIRING DIAGRAM

WIRING KEY

- A } 5-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
- C } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E } 4-CONDUCTOR OPTICOM DETECTOR CABLE
- F } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- G } 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG)
- H } 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG)

PE/PT - PROPOSED UNDERGROUND ELECTRICAL/ TELEPHONE SERVICE

+ - 3/4 IN. X 10 FT. GROUND ROD



WR&A
Whitman, Reardon
and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
HAZARD IDENTIFICATION BEACON
NORTHBOUND AND SOUTHBOUND MD 30
ARCADIA

DRAWN BY: S. BLOSS	F.A.P. NO. AT3575185	TS NO. 4260	SHEET NO.
CHECKED BY: NLEARY	S.H.A. NO. BALTIMORE	T.I.M.S. NO. F934	2 OF 2
SCALE: NONE	COUNTY: BALTIMORE	LOG MILE: 03030.0655	
DATE: 8/13/2003			