

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A HAZARD IDENTIFICATION BEACON AT THE INTERSECTION OF MD 454 (CROWN STONE ROAD) AND FIREHOUSE LANE IN CAROLINE COUNTY.

MD 454 (CROWN STONE ROAD) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE FIREHOUSE HAZARD IDENTIFICATION BEACON SHALL FLASH "YELLOW" WHEN PRE-EMPTION IS ACTIVATED. AT ALL OTHER TIMES, THE HAZARD IDENTIFICATION BEACON SHALL REMAIN DARK. A FULLY ACTUATED, EIGHT-PHASE CONTROLLER USING ALL THE NECESSARY EQUIPMENT HOUSED IN A NEMA SIZE "S-TYPE" BASE-MOUNTED CABINET WITH BATTERY BACK-UP SHALL BE INSTALLED AT THIS INTERSECTION.

PROJECT CONTACTS:

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

MR. JEFFERY WENTZ, ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 810-3240

MR. WM NORRIS EMBERT, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
PHONE: (410) 810-3270

MR. MIKE LEWIS, ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 810-3250

MR. BARRY CLOTHIER, UTILITY ENGINEER  
PHONE: (410) 810-3275

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

MR. EDWARD RODENHIZER, CHIEF - SIGNAL SHOP  
PHONE: (410) 787-7652

MR. SONNY BAILEY, CHIEF - SIGN SHOP  
PHONE: (410) 787-7676

THE POWER COMPANY REPRESENTATIVE:

DELMARVA POWER AND LIGHT COMPANY  
MR. DANNY MOLOCK  
412 COMMERCE STREET  
P.O. Box 159  
CENTERVILLE, MARYLAND 21617  
(410)-758-4102

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE STANDARD PLATES FOR TRAFFIC CONTROL FROM SECTION MD 104.00 OF THE SHA BOOK OF STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES.

3. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410)787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

EQUIPMENT LIST 'A'

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

ITEM NO.	QUANTITY	DESCRIPTION
9000	EA 1	EIGHT-PHASE CONTROLLER AND NECESSARY EQUIPMENT HOUSED IN S-TYPE BASE-MOUNTED CABINET
9570	SF 55	SHEET ALUMINUM GROUND MOUNTED SIGN
		1 EA - D1-1(1) 72"x48"
		1 EA - R10-6 (Mod.) 48"x48"
		1 EA - W11-8 36"x36" B/FLY
		1 EA - W11-12(2) 36"x24" B/FLY

EQUIPMENT LIST 'B'

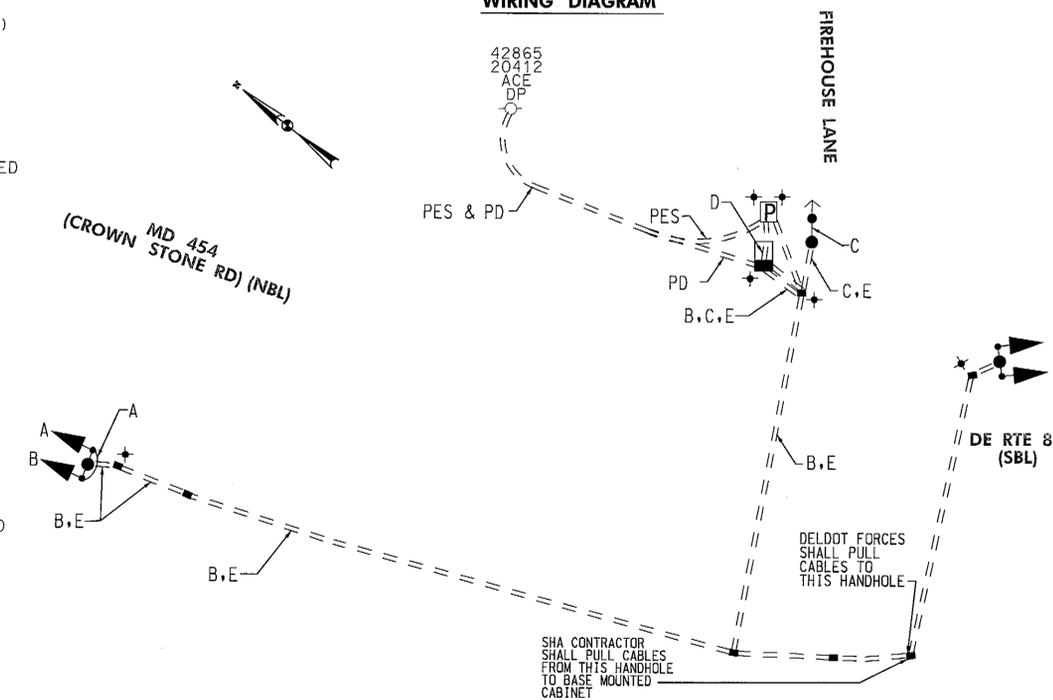
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	EA 1	MAINTENANCE OF TRAFFIC
2002	CY 2	TEST PIT EXCAVATION
5005	LF 11	24" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
8001	EA 2	12" LED SIGNAL HEAD
8009	EA 2	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8012	EA 1	EMBEDDED METERED SERVICE PEDESTAL
8023	EA 1	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8032	LF 40	4-CONDUCTOR OPTICOM CABLE
8033	LF 350	DISCONNECT, PULL-BACK & REROUTE CABLES
8036	LF 200	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4" BORED
8038	LF 920	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4" TRENCHED
8039	LF 48	WOOD SIGN SUPPORPTS UP TO 4" X 6"
8040	SF 55	INSTALL OVERHEAD OR GROUND MOUNTED SIGNS INCLUDING HARDWARE
8042	LF 400	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8045	LF 45	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
8046	EA 6	FURNISH & INSTALL ELECTRICAL HANDHOLE
8047	EA 1	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764
8049	EA 1	OPTICOM NO. 721 DETECTOR EYE
8055	LF 400	ELECTRICAL CABLE 5-CONDUCTOR NO 14 AWG
8062	EA 1	INSTALL CONTROLLER AND CABINET, BASE - MOUNTED

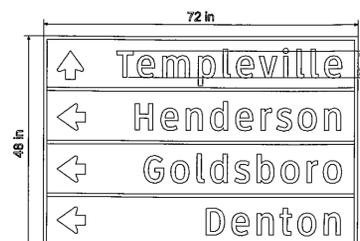
PHASE CHART

SIGNALS SHALL FLASH "YELLOW" WHEN PRE-EMPTION IS ACTIVATED. AT ALL OTHER TIMES THE SIGNALS SHALL REMAIN DARK.

WIRING DIAGRAM



PROPOSED DESTINATION PANEL D1-1(1)



WIRING KEY

- A,B - 5 CONDUCTOR NO. 14 AWG ELEC. CABLE
- C - 4 CONDUCTOR OPTICOM CABLE
- D - 1 CONDUCTOR NO. 8 AWG ELEC. CABLE THHN/THWN (2 RUNS)
- E - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- PES - PROPOSED ELECTRICAL SERVICE
- PD - PROPOSED PHONE DROP
- ⊕ - GROUND ROD (3/4" DIA. x 10' LENGTH)

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 454 AT FIRE HOUSE LANE

MARYDEL, MARYLAND

**GENERAL INFORMATION SHEET**

SCALE: NTS ADVERTISED DATE: 9/30/2011 CONTRACT NO.: XX6615185

DESIGNED BY: JWA COUNTY: CAROLINE

DRAWN BY: JWA LOGMILE: 05045400.03

CHECKED BY: NR/MR TMS NO.: L107

F.A.P. NO.: TOD NO.:

TS NO. 4814 DRAWING SG - 2 OF 2 SHEET NO. 2 OF 2

**III CENTURY**  
ENGINEERING  
CONSULTING ENGINEERS - PLANNERS  
10710 GILROY ROAD  
HUNT VALLEY, MD 21031

CEI # 101195.54