PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A SPEED DETECTION WARNING SYSTEM ALONG SOUTHBOUND MD 45 SOUTH OF PHOENIX ROAD.

MD 45 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

HAZARD INDENTIFICATION BEACON WILL FLASH WHEN VEHICLES ALONG SB MD 45 (YORK ROAD) ARE DETECTED TRAVELING OVER 30 MPH.

CONTROLLER REQUIREMENTS

INSTALL A TYPE "G" POLE MOUNTED CABINET. THE SHA SIGNAL SHOP WILL INSTALL ONE (1) 2 CIRCUIT FLASHER, ONE (1) VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS AND ALL OTHER NECESSARY EQUIPMENT WITHIN THE CABINET.

PHONE DROP

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

THE CONTACT PERSONS FOR DISTRICT #4 ARE AS FOLLOWS:

Ms. Erin Kuhn
Assistant District Engineer - Traffic
Phone: 4101-229-2381

Mr. Michael Pasquariello
District Utility Engineer
Phone: 410-229-2421

Mr. Andre Futrell
Assistant District Engineer - Maintenance
Phone: 410-229-2361

OFFICE OF TRAFFIC AND SAFETY:

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

Mr. Robert Snyder
Assistant Division Chief, Traffic Operations
410-787-7630

Mr. Edward Rodenhizer
Chief Signal Operations
Phone: 410-787-7650

Mr. Eugene Bailey
Chief Sign Operations
410-787-7670

The Power Company is:
BG&E CO.
7317 Parkway Dr. South
Hanover, MD
Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9009	1 EA	12" X 30' STRAIN POLE (1 3/4" X 90" ANCHORS INCLUDED)
9012	1 EA	2 CIRCUIT FLASHER
9037	1 EA	CABINET "G" TYPE POLE MOUNT
9086	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
9571	15 SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN 1 EA. - (42 IN. X 51 IN.) "SPEED TOO FAST WHEN FLASHING"

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

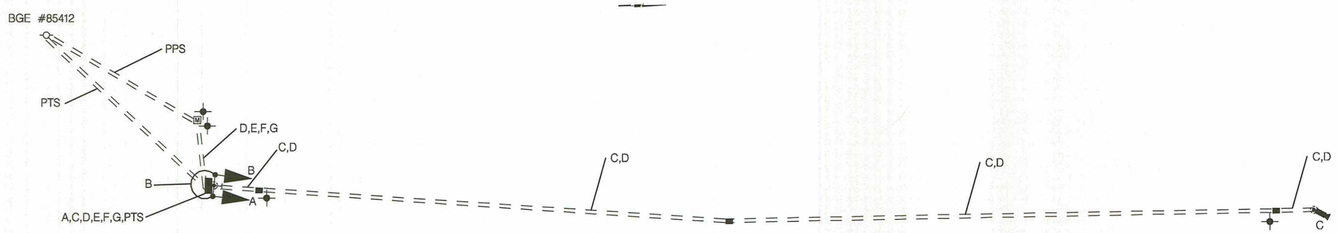
ITEM NO	DESCRIPTION
NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR	

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	3 CY	TEST PIT EXCAVATION
6002	25 SF	5 INCH CONCRETE
8001	2 EA	12 INCH LED SIGNAL HEAD SECTION
8009	1 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8012	1 EA	EMBEDDED METERED SERVICE PEDESTAL
8014	1 EA	INSTALL STEEL STRAIN OR MAST ARM POLE WITH SINGLE OR TWIN MAST ARM
8028	1 EA	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8036	1 360 ~~45 LF~~	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
8038	1 145 ~~460 LF~~	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8040	15 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8042	350 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8045	80 LF	ELECTRICAL CABLE - 1-CONDUCTOR NO.8 AWG-THHN/THWN
8046	3 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8055	30 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8061	1 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT

WIRING DIAGRAM



A B ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

C CONTROL CABLE - VIDEO DETECTION CAMERA TO CONTROLLER

D NO. 6 STRANDED BARE COPPER GROUND WIRE

E F G ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG THHN/THWN

PPS PROPOSED POWER SERVICE (ELECTRICAL CABLE 1- CONDUCTOR NO. 8-THHN/THWN)

PTS PROPOSED TELEPHONE SERVICE

PROPOSED GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

PHASE CHART

	1	2	
	Y	Y	
FLASHING OPERATION (WHEN ACTIVATED)	FL/Y	FL/Y	

1 BEELINE REVISION NO. 1 APRIL 2012
TEDD APPROVAL SHA NO. XX6455185

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

MD 45 (YORK ROAD) SOUTH OF PHOENIX ROAD
SOUTHBOUND SPEED DETECTION WARNING SYSTEM
SPARKS, MARYLAND

GENERAL INFORMATION

SCALE NONE ADVERTISED DATE 12/2011 CONTRACT NO. XX6455185

DESIGNED BY EMP COUNTY BALTIMORE
DRAWN BY EMP LOGMILE 03004510.31
CHECKED BY MTS TIMS NO. K736
F.A.P. NO. TOD NO.

TS NO. 4819 DRAWING SG-02 OF 02 SHEET NO. 02 OF 02

STV
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BY: tarnovk -

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