

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A VARIABLE SPEED LIMIT LED BLANKOUT SIGN ON MD 45 NORTHBOUND AND SOUTHBOUND APPROACHING HEREFORD HIGH SCHOOL. MD 45 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

SPECIAL NOTE

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

CONTROLLER REQUIREMENTS

INSTALL EIGHT-PHASE CONTROLLER WITH INTERSECTION MONITOR FOR PHONE DROP HOUSED IN A NEMA SIZE '3' POLE MOUNTED CABINET.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA

ITEM NO.	QUANTITY	DESCRIPTION
9000	2 EACH	30 FT. STEEL LIGHT POLE
9000	2 EACH	BREAKAWAY BASE SUPPORT SYSTEM FOR LIGHT STRUCTURE
9000	2 EACH	SPEED LIMIT LED BLANKOUT SIGN UNIT
9080	2 EACH	EIGHT-PHASE CONTROLLER AND INTERSECTION MONITOR FOR PHONE DROP HOUSED IN A NEMA SIZE '3' POLE MOUNTED CABINET
9089	30 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 2 EACH S1-1 SIGN (36 IN. x 36 IN.) (FY/G) - GROUND MOUNT - 2 EACH S4-3 SIGN (24 IN. x 8 IN.) (FY/G) - GROUND MOUNT - 2 EACH S4-4(1) SIGN (30 IN. x 15 IN.) - PEDESTAL 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
8006	2 EACH	CUT, CLEAN AND CAP TRAFFIC SIGNAL STRUCTURE
8048	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
8051	70 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8057	4 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8058	17 L.F.	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4 IN. x 4 IN.
8060	100 L.F.	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8063	50 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
8064	65 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
8069	2 EACH	METERED SERVICE PEDESTAL
8070	120 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR NO. 4 A.W.G. - THHN/THWN
8072	2 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8074	22 S.F.	INSTALL GROUND MOUNTED SIGN
8075	32 S.F.	INSTALL OVERHEAD SIGN
8080	4 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER X 10 FT. LENGTH
8085	50 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8091	120 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8092	2 EACH	INSTALL CONTROLLER AND CABINET - POLE MOUNT
NEG.	2 EACH	INSTALL 30 FT. STEEL LIGHT POLE
NEG.	5 S.F.	RELOCATE EXISTING SIGN AND SUPPORT

MAINTENANCE OF TRAFFIC

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

- STANDARD NO. MD-104.00 - 104.00-12
- STANDARD NO. MD-104.31-01 (FLAGGING OPERATION)
- STANDARD NO. MD-104.33-01 (SHOULDER WORK)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-3514

MR. JOE McMAHON
DISTRICT UTILITIES ENGINEER
PHONE: (410) 321-3456

MR. DAVE RAMSEY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-3468

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

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

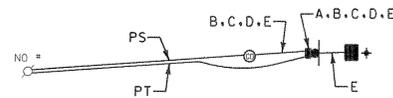
WIRING DIAGRAM

1 REVISED POWER SOURCE AND QUANTITIES
PLAN REVISION NO.1 12/14/01

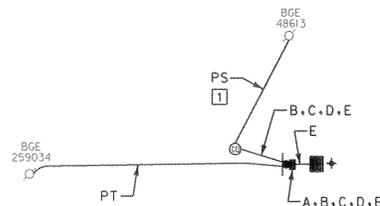
WIRING KEY

- A } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B } 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- C } 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- D } 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- E } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- PS - PROPOSED UNDERGROUND ELECTRICAL SERVICE
- PT - PROPOSED UNDERGROUND TELEPHONE SERVICE
- + - 3/4 IN. X 10 FT. GROUND ROD

MD 45 SOUTHBOUND



MD 45 NORTHBOUND



WIRING KEY

- A } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B } 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- C } 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
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WR&A
Whitman, Requardt
and Associates, LLP
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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 45 APPROACHING HEREFORD HIGH SCHOOL

DRAWN BY: S. BLOSS	F.A.P. NO.	TS NO.	
CHECKED BY: N. LEARY	S.H.A. NO. XXI065385	TS-4119B	SHEET NO.
SCALE: NONE	COUNTY: BALTIMORE	T.I.M.S. NO.	2 OF 2
DATE: 12/14/01	LOG MILE:		