PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW POINT CONTROL PERSON SIGNAL (FLAG IN THE AIR) AT MD 152 AND YOUTH'S BENEFIT ELEMENTARY SCHOOL ENTRANCE IN HARFORD COUNTY. MD 152 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

1. NORMAL OPERATION

   THE INTERSECTION WILL OPERATE IN A FLASHING MODE.

2. SPECIAL OPERATION

   THE INTERSECTION WILL OPERATE AS INDICATED ABOVE, UNLESS A PUSHBUTTON IS ACTIVATED BY THE POINT CONTROL PERSON WHICH WILL STOP MD 152 APPROACHES.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER AND INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET.

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 INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

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-104.31-01 (FLAGGING OPERATION)

STANDARD NO. MD-104.35-01 (LANE SHIFT)

STANDARD NO. MD-104.33-01 (SHOULDER WORK)

STANDARD NO. MD-104.32-01 (INTERSECTION FLAGGING OPERATION)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. DAVE MALKOWSKI
DISTRICT ENGINEER
PHONE: (410) 321-3461

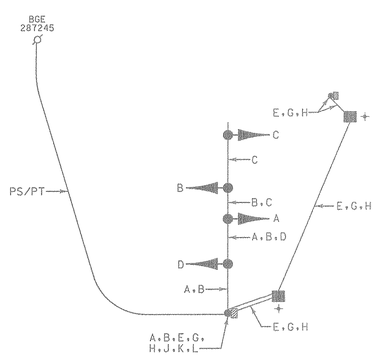
MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-3514

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

MR. JOSEPH MCMAHON
DISTRICT UTILITIES ENGINEER
PHONE: (410) 321-3456

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

WIRING DIAGRAM



WIRING KEY

A, B — 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

C, D, E — 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

G — 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

H — STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.).)

J, K, L — 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)

PS/PT - PROPOSED UNDERGROUND ELECTRICAL AND TELEPHONE SERVICE

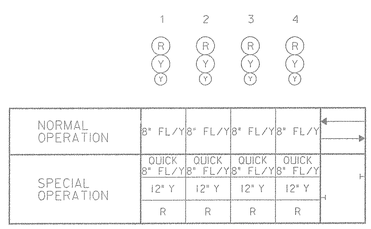
+ - 3/4 IN. X 10 FT. GROUND ROD

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9080	1 EACH	EIGHT PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER AND INTERSECTION MONITOR WITH BATTERY BACK-UP HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET.
9089	22 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
		- 2 EACH S1-1 MOD. SIGN (36 IN. X 42 IN.) - MAST ARM MOUNT.
9000	1 EACH	PUSHBUTTON AND SIGNAL INDICATION FOR POINT CONTROL PERSON IN AUXILIARY CABINET
9000	1 EACH	23 FT. STEEL TWIN MAST ARM POLE WITH 56 FT. MAST ARM

PHASE CHART



EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTAINCE OF TRAFFIC PER ASSIGNMENT
2001	2 C.Y.	TEST PIT EXCAVATION
5004	30 L.F.	24 INCH WHITE THERMOPLASTIC PAVEMENT MARKING TAPE
8001	6 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8003	1 EACH	FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE
8019	1 EACH	INSTALL CONTROLLER AND CABINET - POLE MOUNT
8024	50 L.F.	FURNISH AND INSTALL 2 INCH SCHEDULE 80 RIGID POLYVINYL CHLORIDE CONDUIT - TRENCHED
8026	60 L.F.	FURNISH AND INSTALL 2 INCH SCHEDULE 80 RIGID POLYVINYL CHLORIDE CONDUIT - BORED
8027	90 L.F.	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID POLYVINYL CHLORIDE CONDUIT - TRENCHED
8029	60 L.F.	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID POLYVINYL CHLORIDE CONDUIT - BORED
8032	75 L.F.	FURNISH AND INSTALL 4 INCH SCHEDULE 80 RIGID POLYVINYL CHLORIDE CONDUIT - BORED
8033	2 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8034	2 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
8042	150 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO 14. A.W.G.)
8044	250 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8045	140 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8048	125 L.F.	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8049	45 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 1 CONDUCTOR NO. 4 A.W.G. - THHN/THWN
8053	22 S.F.	INSTALL OVERHEAD SIGN
8066	1 EACH	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT
8074	1 EACH	INSTALL STEEL POLE AND SINGLE MAST ARM
8084	12 EACH	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
NEG.	1 EACH	FURNISH AND INSTALL AUXILIARY FLASHER CABINET (14.38 IN. (H) X 10.38 IN. (W) X 7 IN. (D))

NOTE:

AUXILIARY CABINET SHALL BE A NEMA 3R-4X SMALL SINGLE DOOR ENCLOSURE WITH A LOCK NOT OPENED BY A STANDARD NO. 2 KEY. CONTRACTOR SHALL DELIVER AUXILIARY CABINET TO SHA SIGNAL SHOP FOR MODIFICATION PRIOR TO INSTALLING.

WR&A
Whitman, Requardt and Associates, LLP
2315 Saint Paul Street
Baltimore, Maryland 21218
(410) 235-3450

REVISIONS

APPROVALS

ASST. TRAFFIC ENGINEERING DESIGN DIVISION

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATON SHEET
MD 152 & YOUTH'S BENEFIT ELEM. SCH.

DRAWN BY: S.BLOSS	F.A.P. NO.	TS NO.	SHEET NO.
CHECKED BY: N.LEARY	S.H.A. NO. HA100A52/B52		
SCALE: NONE	COUNTY: HARFORD	T.I.M.S. NO.	2 OF 2
DATE: 7-2-99	LOG MILE:		

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