PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 140 (MAIN STREET) AND GLYNDON DRIVE / GLYNDON TRACE DRIVE IN BALTIMORE COUNTY, MARYLAND. MD 140 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, SEMI-TRAFFIC-ACTUATED MODE WITH THE MD 140 APPROACHES OPERATING CONCURRENTLY AND THE GLYNDON DRIVE / GLYNDON TERRACE APPROACHES OPERATING SPLIT.

AN ALTERNATE PEDESTRIAN PHASE WILL BE PROVIDED ACROSS THE NORTH LEG OF MD 140.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH VIDEO INTERFACE EQUIPMENT (1-4 CAMERAS) AND SYSTEM PACKAGE HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

PHONE DROP

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 THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAYBE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.03-01 (SHOULDER WORK)

STANDARD NO. MD-104.03-03 (LEFT LANE CLOSURE)

STANDARD NO. MD-104.03-05 (RIGHT LANE CLOSURE)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

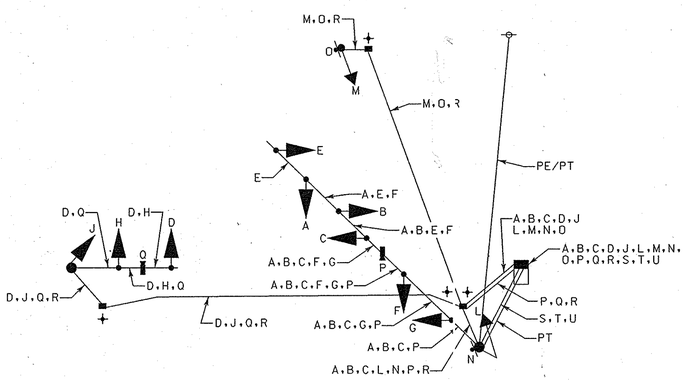
MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781/2785

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

MR. MIKE PASQUARIELLO
ASST. DISTRICT UTILITY ENGINEER
PHONE: (410) 321-2841

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

WIRING DIAGRAM



WIRING KEY

A B C D J } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	P Q } VIDEO CAMERA DETECTION LEAD-IN CABLE
E F G H L M } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	R } STRANDED BARE COPER GROUND WIRE (NO. 6 A.W.G.)
N O } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	S T U } 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
P Q } VIDEO CAMERA DETECTION LEAD-IN CABLE	PE/PT - PROPOSED OVERHEAD ELECTRICAL AND TELEPHONE SERVICE
	PT - PROPOSED UNDERGROUND TELEPHONE SERVICE
	⏚ - 3/4 IN. X 10 FT. GROUND ROD

EQUIPMENT LIST "A"

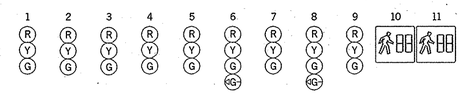
A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9044	1 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH SYSTEM PACKAGE HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET
9086	1 EACH	VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS
9571	61 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
	- 3 EACH	D-3(1) SIGN (VARIABLE x 16 IN.) DUAL FACED - MAST ARM MOUNT
	- 2 EACH	R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS MAIN STREET"
	- 2 EACH	W3-3 SIGN (36 IN. x 36 IN.) WITH "NEW" PANEL (24 IN. x 24 IN.) AND FLAG - GROUND MOUNT

EQUIPMENT LIST "C"

NO EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

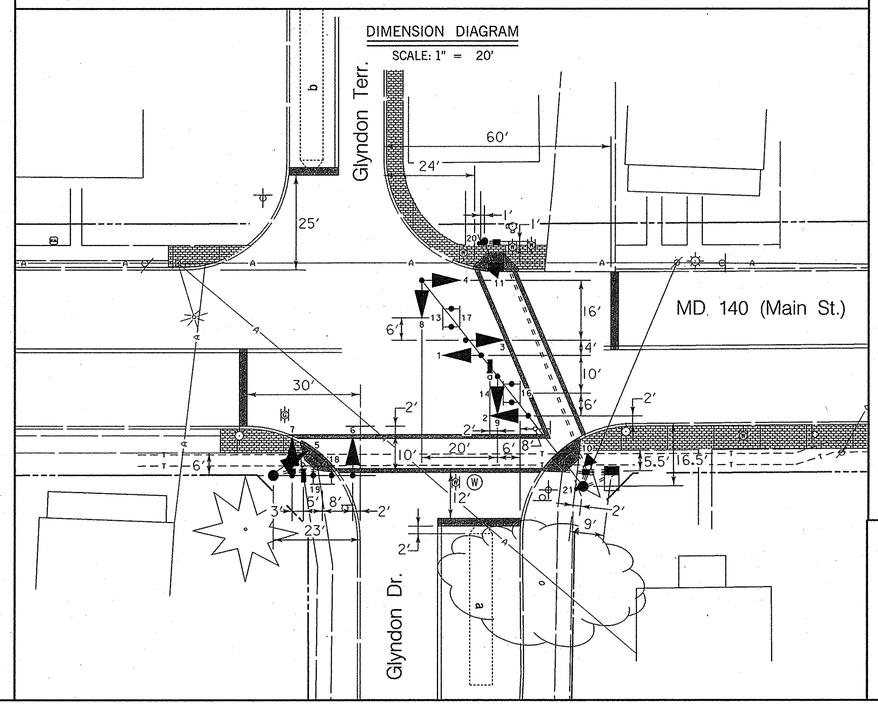
PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11
PHASE 2 + 6	G	G	G	G	G	R	R	R	R	DW	DW
2 + 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	DW	DW
PHASE 3	R	R	R	R	R	G	G	R	R	DW	DW
3 CHANGE	R	R	R	R	R	Y	Y	R	R	DW	DW
PHASE 4	R	R	R	R	R	R	R	G	G	DW	DW
4 CHANGE	R	R	R	R	R	R	R	Y	Y	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	R	G	G	WK	WK
PED CLEARANCE	R	R	R	R	R	R	R	G	G	FL/DW	FL/DW
4 ALT CHANGE	R	R	R	R	R	R	R	Y	Y	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK

DIMENSION DIAGRAM

SCALE: 1" = 20'



EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2001	5 C.Y.	CLASS 2 EXCAVATION
2002	4 C.Y.	TEST PIT EXCAVATION
5002	80 L.F.	5 INCH HEAT APPLIED YELLOW PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5003	90 L.F.	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
5005	230 L.F.	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5006	80 L.F.	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
6003	60 L.F.	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN AND 8 INCH DEPTH
6005	200 S.F.	4 INCH CONCRETE SIDEWALK
8001	11 C.Y.	CONCRETE FOUNDATION
8003	20 EACH	12 INCH RED OR GREEN LED SIGNAL HEAD SECTION
8004	9 EACH	12 INCH YELLOW LED SIGNAL HEAD SECTION
8005	1 EACH	2-WIRE CENTRAL CONTROL UNIT
8010	2 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON
8014	2 EACH	CONTROL CABLE, 200 FT. VIDEO DETECTION CAMERA TO CONTROLLER
8021	2 EACH	LED 16 INCH COUNTDOWN PEDESTRIAN
8027	1 EACH	PED POLE (ANY SIZE)
8029	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
8034	30 L.F.	3 INCH DIAMETER POLYVINYL CHLORIDE CONDUIT, SCHEDULE 80, RISER
8040	30 S.F.	DETECTABLE WARNING SURFACE
8041	40 S.F.	REMOVE-REINSTALL DECORATIVE BRICK SIDEWALK
8043	38 L.F.	WOOD SIGN SUPPORTS 4 INCH x 6 INCH
8044	215 L.F.	NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8045	30 L.F.	1 INCH ELECTRICAL CONDUIT - GALVANIZED RISER
8047	1 EACH	WEATHERHEAD, 3 INCH
8051	10 L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8052	20 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8053	25 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8055	260 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8056	145 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8059	1 EACH	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS
8061	80 L.F.	ELECTRICAL CABLE - 1 CONDUCTOR NO. 4 A.W.G - THHN/THWN
8067	5 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8069	26 S.F.	INSTALL GROUND MOUNTED SIGN
8070	35 S.F.	INSTALL OVERHEAD SIGN
8071	2 EACH	VIDEO DETECTION CAMERA
8076	1 EACH	STEEL POLE WITH A SINGLE 38 FT. MAST ARM
8081	1 EACH	STEEL POLE WITH A SINGLE 70 FT. MAST ARM
8082	2120 L.F.	12-PAIR COMMUNICATION CABLE, SELF-SUPPORTING (OVERHEAD)
8091	4 EACH	GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
8096	1 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8099	150 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G)
8101	265 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G)
8102	600 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G)
8112	1 EACH	INSTALL CONTROLLER AND CABINET - BASE MOUNT

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 140 (Main Street) and Glyndon Drive /Glyndon Trace Drive

Reisterstown, MD

Whitman, Requardt and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

GENERAL INFORMATION SHEET

SCALE NONE DATE 6082006 CONTRACT NO. AT7175185

DESIGNED BY S. BLOSS COUNTY BALTIMORE
DRAWN BY S. BLOSS LOGMILE
CHECKED BY N. LEARY T.I.M.S. NO. H435
F.A.P. NO. TOD NO.

DRAWING NO. - OF SHEET NO. 3 OF 3

PLOTTED: 8/15/2006
FILE: N:\31556-029\CADD\PSG-N003_MD140.DGN

BY: SBLOSS