PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING 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. INTERSECTION OPERATION

DURING NORMAL OPERATION, THE INTERSECTION WILL OPERATE INA FLASHING MODE WITH THE MD 152 INDICATIONS FLASHING YELLOW AND THE YOUTH'S BENEFIT SCHOOL DRIVEWAY INDICATIONS FLASHING RED. WHEN ACTIVATED, THE INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE, FULL-TRAFFIC ACTUATED MODE WITH THE MD 152 APPROACHES OPERATING CONCURRENTLY AND THE YOUTH'S BENEFIT SCHOOL DRIVEWAY OPERATING ALONE.

CONTROLLER REQUIREMENTS

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED. INSTALL ONE (1) FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER, QUICK CONNECT BLOCK AND HARNESS FOR TELEMETRY PANEL AND VIDEO INTERFACE EQUIPMENT.

THE EXISTING POLE MOUNTED CABINETS SHALL BE USED AT THE ADVANCE HIB'S AND A QUICK CONNECT BLOCK AND HARNESS FOR TELEMETRY PANEL SHALL BE INSTALLED IN EACH.

MAINTENANCE OF TRAFFIC

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

STANDARD NO. MD-104.02-01 (SHOULDER WORK)

STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING)

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

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9080	40 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF:
		- 2 EACH W3-4 SIGN (48" x 48") W16-3P (24" x 24")
9000	1 EACH	50 FT. MAST ARM (ONLY)
9000	1 EACH	VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS
9000	3 EACH	QUICK CONNECT BLOCK AND HARNESS FOR TELEMETRY INTERFACE PANEL
9016	1 EACH	FOUR-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER

EQUIPMENT LIST "C"

ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART

	3	4	7	8	9	10
	R	R	R	R	R	R
	Y	Y	Y	Y	Y	Y
	G	G	G	G	G	G
NORMAL OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R
PHASE 2 AND 6	G	G	G	G	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	R	R
PHASE 4	R	R	R	R	G	G
4 CHANGE	R	R	R	R	Y	Y

EQUIPMENT LIST "B"

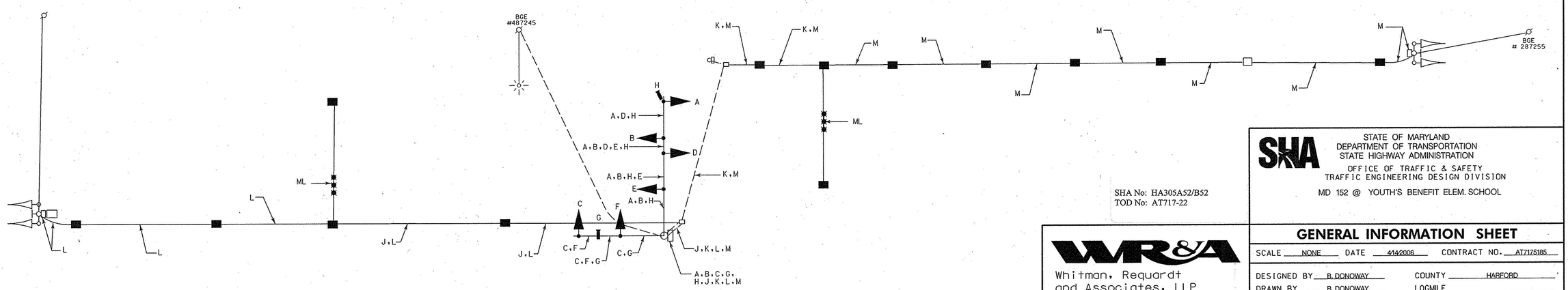
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
5001	35 L.F.	5 INCH HEAT APPLIED WHITE PERMANENT PAVEMENT LINE MARKINGS
5002	140 L.F.	5 INCH HEAT APPLIED YELLOW PERMANENT PAVEMENT LINE MARKINGS
5003	60 L.F.	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
5006	65 L.F.	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
8003	12 EACH	12 INCH RED OR GREEN LED SIGNAL HEAD
8004	6 EACH	12 INCH YELLOW LED SIGNAL HEAD SECTION
8012	2 EACH	CONDUIT BEND IN EXISTING FOUNDATION
8013	2 EACH	CONTROL CABLE, 100 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
8028	26 S.F.	RELOCATE SIGN
8029	1 EACH	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT PER ASSIGNMENT
8043	35 L.F.	WOOD SIGN SUPPORTS 4 INCH x 6 INCH
8049	350 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8051	20 L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8052	2160 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8065	1 EACH	NON-INVASIVE MICROLOOP PROBE, 500 FOOT LEAD IN CABLE
8066	1 EACH	NON-INVASIVE MICROLOOP PROBE 1000 FOOT LEAD IN CABLE
8067	13 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8070	40 S.F.	INSTALL OVERHEAD SIGN
8071	2 EACH	VIDEO DETECTION CAMERA
8083	2850 L.F.	12-PAIR COMMUNICATION CABLE, JELLYFILLED (UNDERGROUND)
8096	1 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8101	70 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8102	210 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8105	35 L.F.	SAW CUT FOR SIGNAL (LOOP DETECTOR)
~~[illegible]~~ 8020	1 EACH	INSTALL MAST ARM

WIRING DIAGRAM

WIRING KEY

- A, B, C — 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D, E, F — 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- G, H — VIDEO DETECTION CAMERA
- J, K — MICROLOOP PROBE LEAD-IN
- L, M — 12-PAIR COMMUNICATION CABLE, JELLY FILLED



SHA No: HA305A52/B52
TOD No: AT717-22

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 152 @ YOUTH'S BENEFIT ELEM. SCHOOL

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

GENERAL INFORMATION SHEET

SCALE NONE DATE 4/14/2006 CONTRACT NO. AT7175185

DESIGNED BY B. DONOWAY
DRAWN BY B. DONOWAY
CHECKED BY N. LEARY
F.A.P. NO.
COUNTY HARFORD
LOGMILE
T.I.M.S. NO. H330
TOD NO.

DRAWING NO. - OF
SHEET NO. 3 OF 3

PLOTTED: 6/30/2006
FILE: N:\31556-045\CADD\PSG-N001_152YOUTH.DGN

TS 3954A

BY: BDONOWAY