PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF EMERGENCY VEHICLE (TRAFFIC SIGNAL PRE-EMPTION - OPTICOM DETECTION) AND REPLACEMENT OF A 3 SECTION VEHICLE SIGNAL HEADS TO A 4 SECTION VEHICLE SIGNAL HEAD AT THE INTERSECTION OF US 40 AND ABINGDON ROAD/OTTER POINT ROAD IN HARFORD COUNTY.

US 40 IS ASSUMED TO RUN IN AN EAST- WEST DIRECTION.

EQUIPMENT LIST A

EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NOS.	DESCRIPTION	UNITS	QUANTITY
9000	(CONT/CAB/ADD) "D" PANEL W/ HARNESS	EA	1
9046	[UPDATED] DETECTOR RACK RETROFIT	EA	1

EQUIPMENT LIST B

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NOS.	DESCRIPTION	UNITS	QUANTITY
1001	Maintenance of Traffic	EA	1
8005	F & I 3M Opticom #764 Discriminator Module	EA	1
8006	F & I 3M Opticom Emitter System 700 Series	EA	1
8007	Adjust and Re-ring Existing Span Wire	EA	2
8013	Remove & Dispose Material & Equipment	EA	1
8018	F & I 4 Conductor Opticom Detector Cable	LF	230
8051	F & I Opticom No. 721 Detector Eye	EA	1
8056	F & I 12" Vehicular Traffic Signal Head Section	EA	8

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

ITEM NOS.	DESCRIPTION	UNITS	QUANTITY
	NONE		

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:
MR.RANDALL SCOTT, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781
MR.GRADON TOBERY , ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 321- 2821
MR. STEVE MARCISZEWSKI, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-2761
MS. SUENETTE POPE UTILITY ENGINEER
PHONE: (410) 321-2841
MR. RICHARD L. DAFF, SR.,SENIOR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

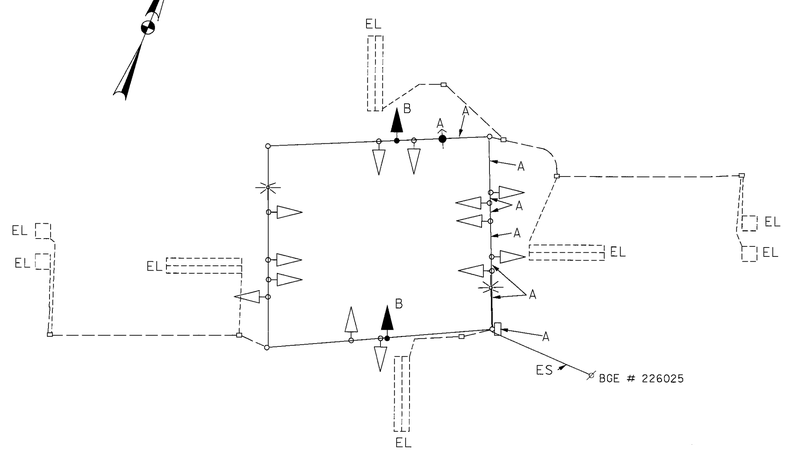
PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PHASE 1 & 5	◄G-	◄G-	R	R	R	◄G-	◄G-	R	R	R	R	R	R	R	R
1 & 5 CHANGE TO 1 & 6, 2 & 5, OR 2 & 6															
PHASE 1 & 6	◄G-	◄G-	G	G	R	◄R-	◄R-	R	R	R	R	R	R	R	R
1 & 6 CHANGE	◄Y-	◄Y-	G	G	R	◄R-	◄R-	R	R	R	R	R	R	R	R
PHASE 2 & 5	◄R-	◄R-	R	R	G	◄G-	◄G-	G	G	R	R	R	R	R	R
2 & 5 CHANGE	◄R-	◄R-	R	R	G	◄Y-	◄Y-	G	G	R	R	R	R	R	R
PHASE 2 & 6	◄R-	◄R-	G	G	G	◄R-	◄R-	G	G	R	R	R	R	R	R
2 & 6 CHANGE	◄R-	◄R-	Y	Y	Y	◄R-	◄R-	Y	Y	R	R	R	R	R	R
PHASE 4 & 8	◄R-	◄R-	R	R	R	◄R-	◄R-	R	R	G	G	G	G	G	G
4 & 8 CHANGE	◄R-	◄R-	R	R	R	◄R-	◄R-	R	R	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/◄R-	FL/◄R-	FL /Y	FL /Y	FL /Y	FL/◄R-	FL/◄R-	FL /Y	FL /Y	FL /R	FL /R	FL /R	FL /R	FL /R	FL /R

FIREHOUSE PRE-EMPTION

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Phase 4 Firehouse Pre-emption	◄R-	◄R-	R	R	R	◄R-	◄R-	R	R	R	R	R	G ◁G-	G ◁G-	G
Phase 4 Pre-emption Clearance	◄R-	◄R-	R	R	R	◄R-	◄R-	R	R	R	R	R	Y	Y	Y
PHASE 2 & 6	◄R-	◄R-	G	G	G	◄R-	◄R-	G	G	R	R	R	R	R	R
NORMAL OPERATION	◄R-	◄R-	Y	Y	Y	◄R-	◄R-	Y	Y	R	R	R	R	R	R

WIRING DIAGRAM



WIRING KEY

A- 4-CONDUCTOR OPTICOM DETECTOR CABLE

B – USE EXISTING CABLE FOR NEW 4 SECTION VEHICLE SIGNAL HEAD

NOTE:
USE EXISTING 7- CONDUCTOR CABLE WHEN REPLACING EXISTING 3 SECTION VEHICLE SIGNAL HEAD WITH A 4 SECTION VEHICLE SIGNAL HEAD.

ES – EXISTING OVERHEAD SERVICE

EL – EXISTING LOOP DETECTOR WIRE

AT582-32 HA289A52/852

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

US 40 (Pulaski Highway) and Abingdon Road/Otter Point Road

SCALE NONE DATE 03/02/05 CONTRACT NO. AW-454-501-485

DESIGNED BY M. A. MEARS
DRAWN BY
CHECKED BY D.DODA
F.A.P. NO. CMG-STPG-000S(134)
COUNTY HARFORD
LOGMILE 12004006.35
T.I.M.S. NO. G762
TOD NO. 3362-B

DRAWING NO. - OF SHEET NO. 2 OF 2

BAI
BRUDIS & ASSOCIATES, INC.
CONSULTING ENGINEERS
9220 RUMSEY ROAD SUITE 110
COLUMBIA, MARYLAND 21045
410-884-3607 410-884-3609(FAX)

BY: $USERNAME$