

**PROJECT DESCRIPTION**

**I. GENERAL**

THIS PROJECT INVOLVES THE CONSTRUCTION OF A NEW TRAFFIC CONTROL SIGNAL AND STREET LIGHTING AT THE INTERSECTION OF US 40 ALT (NATIONAL HIGHWAY) AT LOWES ENTRANCE IN ALLEGANY COUNTY.

US 40 ALT (NATIONAL HIGHWAY) IS ASSUMED TO TRAVEL IN AN EAST-WEST DIRECTION.

**II. INTERSECTION OPERATION**

THE INTERSECTION CURRENTLY OPERATES A STOP CONDITION FOR VEHICLES AT THE LOWES ENTRANCE/STEAKHOUSE ENTRANCE. A CENTER-LEFT TURN LANE IS PRESENT ON US 40 ALT (NATIONAL HIGHWAY). TRAFFIC SIGNALS SHALL PROVIDE FOR MOVEMENT THROUGHOUT THE INTERSECTION. EXCLUSIVE/PERMISSIVE LEFT TURNS WILL BE PROVIDED FOR US 40 ALT (NATIONAL HIGHWAY). PERMISSIVE LEFT TURNS WILL BE PROVIDED FOR THE LOWES ENTRANCE/STEAKHOUSE ENTRANCE. VIDEO CAMERA'S SHALL PROVIDE DETECTION ON ALL FOUR LEGS. SIGNAL PREEMPTION WILL BE PROVIDED FOR US 40 ALT (NATIONAL HIGHWAY). STREET LIGHTING WILL BE PROVIDED IN THE NORTHWEST AND SOUTHEAST QUADRANTS OF THE INTERSECTION.

A SOLID STATE EIGHT-PHASE, FULLY-TRAFFIC-ACTUATED CONTROLLER WITH AMPLIFIERS, CAMERA INTERFACE, OPTICOM PREEMPTION EQUIPMENT AND ALL NECESSARY EQUIPMENT HOUSED IN A SIZE '6' BASE MOUNTED CABINET SHALL BE INSTALLED AT THE INTERSECTION.

**III. SPECIAL NOTES:**

THE CONTRACTOR SHALL NOT TRENCH OR DAMAGE THE RIDING SURFACE ON US 40 ALT. THE SURFACE WAS RECENTLY RESURFACED IN CONTRACT NO. AL401B51.

**EQUIPMENT LIST "A"**

A. EQUIPMENT TO BE SUPPLIED BY THE SHA AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
9000	1 EA	SOLID STATE, FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH FOUR CHANNEL AMPLIFIER, CAMERA INTERFACE AND ALL NECESSARY EQUIPMENT HOUSED IN SIZE '6' BASE MOUNTED CABINET.
9570	31 SF	SHEET ALUMINUM FOR GROUND MOUNT SIGN
9571	42 SF	SHEET ALUMINUM FOR MAST ARM MOUNTING
	2 EA	W3-3 "SIGNAL AHEAD" SIGN (36" X 36") WITH FLAGS (30" X 30")
	2 EA	D3-2 "ADVANCE STREET NAME SIGN" (72" X 12")
	2 EA	R3-5L "LEFT TURN ONLY" SIGN (30" X 36")
	2 EA	R10-12 "LEFT TURN YIELD ON GREEN" (30" X 36")

**PROJECT CONTACTS**

CONTACT PERSONS FOR DISTRICT 6 ARE AS FOLLOWS:

MR. GEORGE SMALL  
ASSISTANT DISTRICT ENGINEER  
TRAFFIC - 301-729-8444

MR. JOHN TRUE  
ASSISTANT DISTRICT ENGINEER  
CONSTRUCTION - 301-729-8411

MR. GEORGE C. FRANKENBURY  
ASSISTANT DISTRICT ENGINEER  
MAINTENANCE - 301-729-8457

MR. ROBERT ROWAN  
ASSISTANT DISTRICT ENGINEER  
UTILITIES - 301-729-8439

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY:

MR. RICHARD DAFF SR.  
CHIEF, TRAFFIC OPERATIONS  
410-787-7630

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF,  
TRAFFIC OPERATIONS DIVISION  
410-787-7630

MR. ED RODENHIZER  
TEAM LEADER - SIGNAL OPERATIONS  
410-787-7650

MR. DEAN RANDOLPH  
PROJECT MANAGER - SIGNAL DESIGN  
410-787-5861

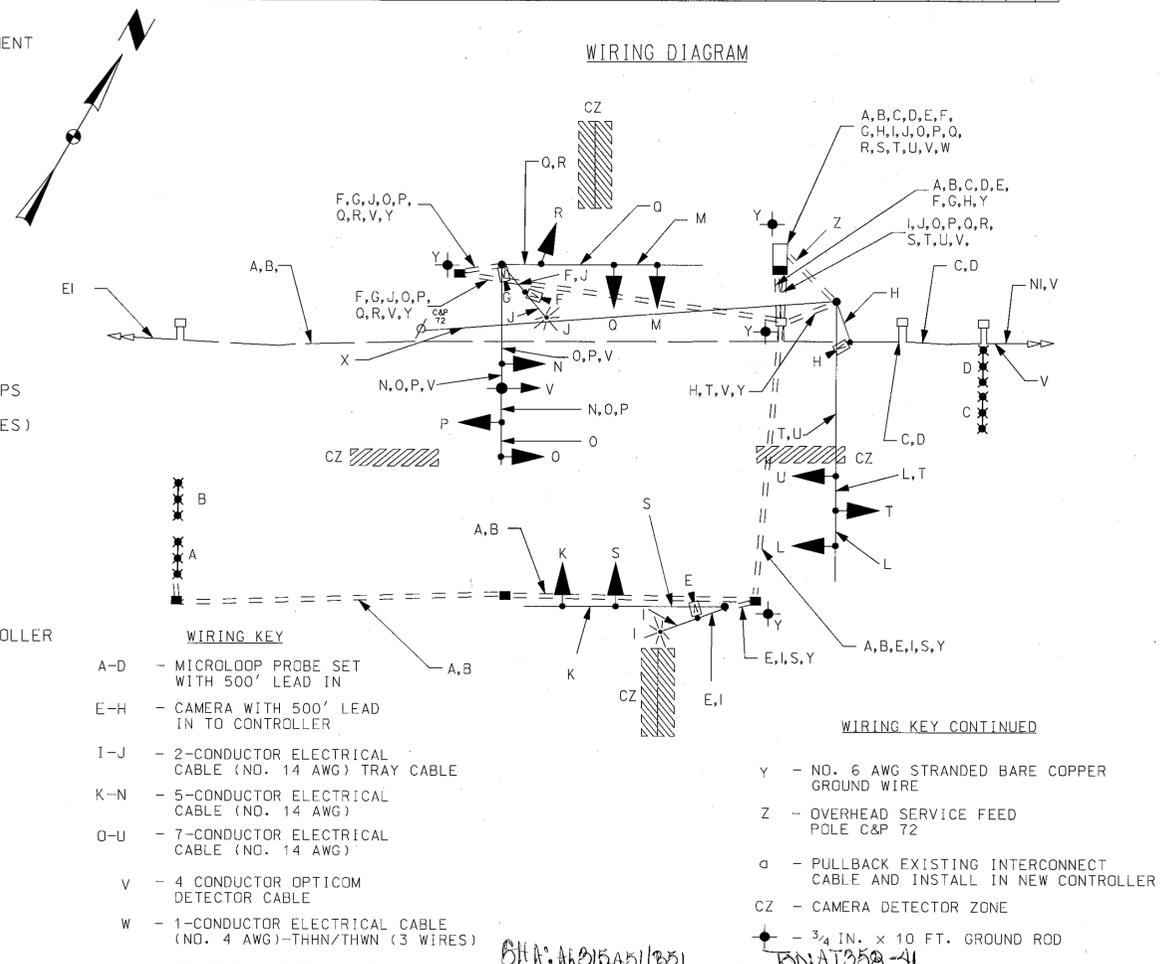
**EQUIPMENT LIST "B"**

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	2 EA	MAINTENANCE OF TRAFFIC
2002	4 CY	TEST PIT EXCAVATION
5001	880 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS (ANY WIDTH)
5003	170 LF	5" WHITE HEAT APPLIED PERMANENT PAVEMENT MARKINGS
5004	550 LF	5" YELLOW HEAT APPLIED PERMANENT PAVEMENT MARKINGS
5006	120 LF	24" HEAT APPLIED WHITE PERMANENT PREFORMED PAVEMENT MARKING
5008	6 EA	HEAT APPLIED WHITE PERMANENT PREFORMED PAVEMENT MARKING ARROWS
8001	12.5 CY	CONCRETE FOUNDATION
8008	3 EA	INSTALL STEEL POLE WITH SINGLE OR TWIN MAST ARMS (NOTE: EIGHT- 2" X 90" AND FOUR- 1 3/4" X 90" ANCHOR BOLTS SHALL BE REQUIRED)
8011	1 EA	MAST ARM POLE (15' T) AND 70' MAST ARM
8014	1 EA	REMOVE AND DISPOSE OF EQUIPMENT AND MATERIAL PER ASSIGNMENT
8015	1 EA	TWIN MAST ARM POLE (15' T) AND 50'/50' TWIN MAST ARM
8022	200 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8023	27 LF	1" ELECTRICAL CONDUIT-GALVANIZED RISER
8026	1 EA	WEATHER HEAD, 3 INCH
8029	210 LF	4" SCHEDULE 80 PVC CONDUIT-BORED
8030	20 LF	2" SCHEDULE 80 PVC CONDUIT-TRENCHED
8031	400 LF	3" SCHEDULE 80 PVC CONDUIT-TRENCHED
8032	16 LF	4" SCHEDULE 80 PVC CONDUIT-TRENCHED
8034	50 LF	3" SCHEDULE 80 PVC CONDUIT-SLOTTED
8038	1 EA	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS
8039	30 LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG -THHN/THWN (3 WIRES)
8041	4 EA	MICROLOOP PROBE DETECTOR, 500 FOOT LEAD IN CABLE
8045	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8047	18 SF	INSTALL GROUND MOUNTED SIGN
8048	35 SF	INSTALL OVERHEAD SIGN
8049	4 EA	VIDEO DETECTION CAMERA
8051	4 EA	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
8052	1 EA	DISCRIMINATOR MODULE, 4 CHANNEL #764
8053	1 EA	OPTICOM EMMITTER SYSTEM, 700 SERIES
8054	1 EA	OPTICOM NO. 721 DETECTOR EYE
8057	1 EA	STEEL POLE WITH SINGLE 50' MAST ARM
8063	1000 LF	12-PAIR COMMUNICATION CABLE JELLYFILLED (UNDERGROUND)
8064	2 EA	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRES
8069	4 EA	GROUND ROD (3/4" DIA X 10' LENGTH)
8071	41 EA	12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8074	3 EA	CUT, CLEAN GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8079	60 LF	ELECTRICAL CABLE 5- CONDUCTOR NO.14 AWG
8080	450 LF	ELECTRICAL CABLE 7- CONDUCTOR NO.14 AWG
8081	250 LF	ELECTRICAL CABLE 2- CONDUCTOR NO. 12 AWG
8085	2 EA	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
8090	1 EA	INSTALL CONTROLLER AND BASE MOUNTED CABINET

PROPOSED PHASING

	1	2	3	4	5	6	7	8	9	10	11
Phase 1 & 5	G R	G R	R	G R	G R	R	R	R	R	R	R
1 & 5 Change	Y R	Y R	R	Y R	Y R	R	R	R	R	R	R
1 & 6	G G	G G	G	R	R	R	R	R	R	R	R
1 & 6 CHANGE	Y Y	Y Y	Y	R	R	R	R	R	R	R	R
Phase 2 & 5	R	R	R	G G	G G	G	R	R	R	R	R
2 & 5 Change	R	R	R	Y Y	Y Y	Y	R	R	R	R	R
2 & 6	G	G	G	G	G	G	R	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R
Phase 4 & 8	R	R	R	R	R	R	G	G	G	G	G
4 & 8 Change	R	R	R	R	R	R	Y	Y	Y	Y	Y
FIREHOUSE	R	R	R	G G	G G	G	R	R	R	R	R
PREEMPTION	R	R	R	Y Y	Y Y	R	R	R	R	R	R
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R



**CE**  
**CENTURY ENGINEERING, INC.**  
CONSULTING ENGINEERS - PLANNERS  
32 WEST ROAD  
TOWSON, MARYLAND 21204

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
*Office of Traffic & Safety*  
**TRAFFIC ENGINEERING DESIGN DIVISION**  
GENERAL INFORMATION SHEET  
U.S. 40 ALTERNATE  
AT LOWES ENTRANCE

DRAWN BY: COD	F.A.P. NO. AT3585185	TS NO. 4332
CHECKED BY: T. HOLLOWAY	S.H.A. NO. ALLEGANY	T.J.M.S. NO. F928
SCALE: NOT TO SCALE	COUNTY: ALLEGANY	LOG MILE: 01A4007.32
DATE: 6/1/2004		

SHEET NO. 2 OF 2