

**PROJECT DESCRIPTION**

**GENERAL**

THIS PORTION OF THE PROJECT INVOLVES CONSTRUCTING A TEMPORARY TRAFFIC CONTROL SIGNAL AT US 40 AND EBENEZER ROAD IN BALTIMORE COUNTY. A TEMPORARY WOOD POLE IS PROPOSED IN THE NORTHWEST QUADRANT TO SHIFT THE SIGNAL INDICATIONS FOR THE WEST- AND NORTHBOUND APPROACHES. ALL EXISTING OVERHEAD SIGNS FOR THESE APPROACHES WILL BE RELOCATED. NEW EASTBOUND SETBACK DETECTION WILL BE CONSTRUCTED. THE PEDESTRIAN SIGNAL HEADS, PUSH BUTTONS AND SIGNS TO CROSS THE WEST LEG WILL ALSO BE TEMPORARILY REMOVED. THE EXISTING VIDEO DETECTION CAMERA MOUNTED ON THE STRAIN POLE IN THE NORTHWEST QUADRANT WILL BE TEMPORARILY RELOCATED TO THE PROPOSED WOOD POLE. THE EXISTING INTERCONNECT ALONG US 40 BETWEEN MD 43 AND EBENEZER ROAD WILL BE RE-ROUTED. US 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

**INTERSECTION OPERATION**

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE LEFT-TURN PHASING ALONG US 40 AND SPLIT PHASING ON EBENEZER ROAD. THE EXISTING ALTERNATE PEDESTRIAN PHASE WILL BE DISCONNECTED.

**CONTROLLER REQUIREMENTS**

THE EXISTING BASE MOUNTED TRAFFIC SIGNAL CONTROLLER AND ASSOCIATED HARNESSES WILL REMAIN.

THE CONTACT PERSONS FOR DISTRICT #4 ARE AS FOLLOWS:

Mr. Randall Scott  
Assistant District Engineer - Traffic  
Phone: 410-321-2781

Ms. Suanette Pope  
District Utility Engineer  
Phone: 410-321-2841

Mr. Steve Marciszewski  
Assistant District Engineer - Maintenance  
Phone: 410-321-2761

Mr. Edward Rodenhizer  
Chief, SHA Traffic Signal Shop  
Phone: 410-787-7650

Mr. Richard L. Daff Sr.  
Chief, Traffic Operations Division  
Phone: 410-787-7630

The Power Company Representative is:

Baltimore Gas & Electric Company  
7317 Parkway Drive South  
Hanover, MD 21076  
Phone: 410-859-9062

**EQUIPMENT LIST 'A'**

EQUIPMENT TO BE FURNISHED BY THE SHA.

CAT CODE	QUANTITY	DESCRIPTION
NONE	NONE	NONE

**EQUIPMENT LIST 'B'**

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

CAT CODE	QUANTITY	DESCRIPTION
120500	1 LS	MAINTENANCE OF TRAFFIC
120662	60 LF	REMOVAL OF EXISTING PAVEMENT MARKING LINES - ANY WIDTH
203030	1 CY	TEST PIT EXCAVATION
585405	80 LF	5 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
585407	20 LF	5 INCH YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
800000	1 LS	REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT
800000	1 EA	RELOCATE EXISTING VIDEO DETECTION CAMERA
800000	1 EA	CLASS II WOOD POLE 40 FOOT
805115	130 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
805135	250 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805140	25 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805150	180 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
805155	60 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
805160	30 LF	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
810555	2 EA	MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE
811001	9 EA	ELECTRICAL HANDHOLE
813006	58 SF	RELOCATE EXISTING SIGNS FROM OVERHEAD STRUCTURE
816005	1 EA	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
860270	3 EA	8 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860272	20 EA	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861107	800 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	150 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
869102	260 LF	STEEL SPAN WIRE - 3/8 INCH DIAMETER

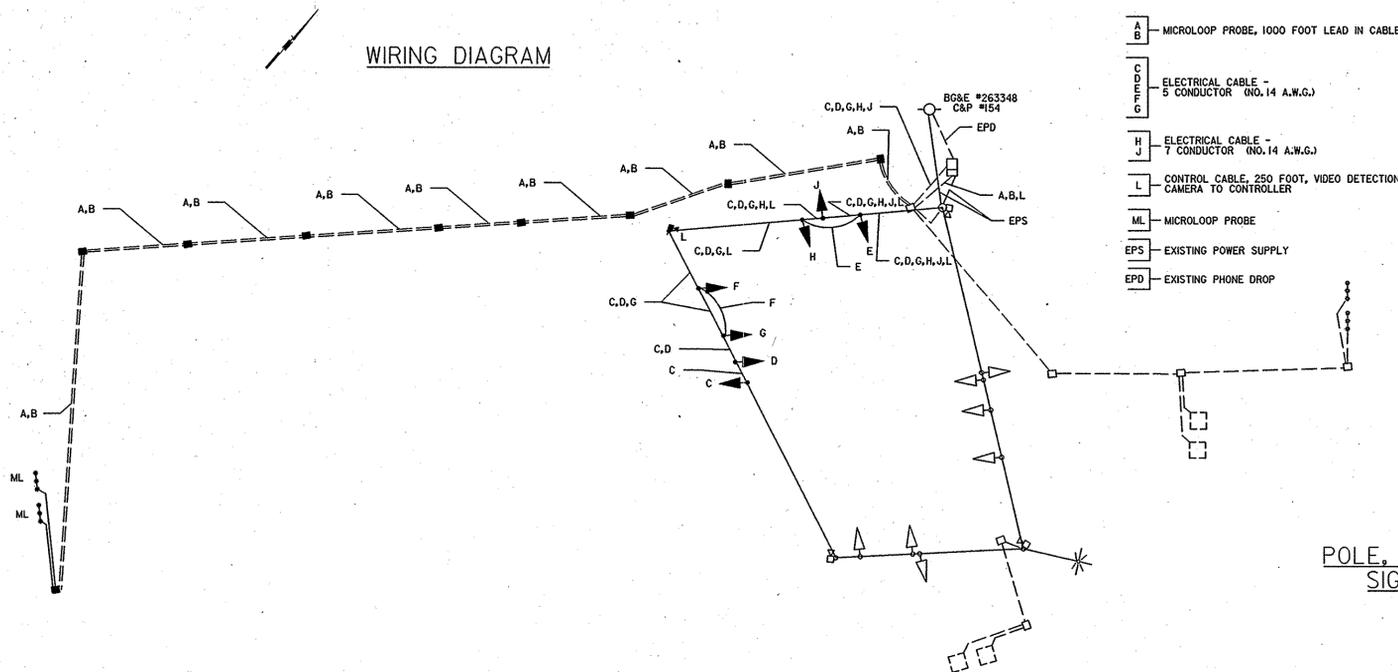
**EQUIPMENT LIST 'C'**

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

CAT CODE	QUANTITY	DESCRIPTION
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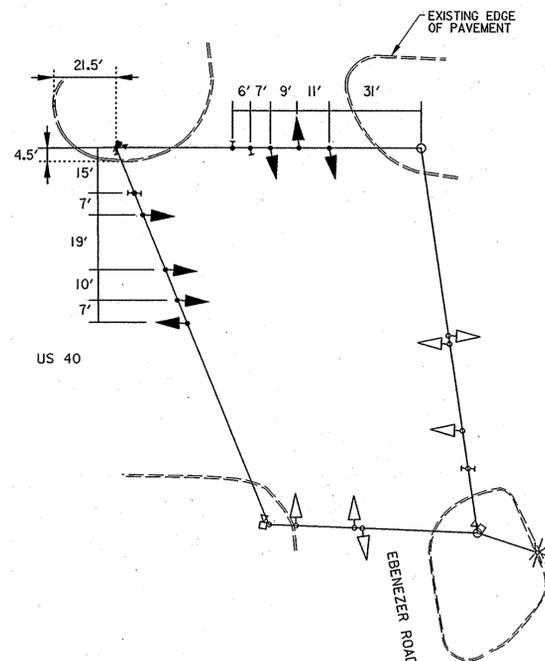
ALL REMOVED MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

**WIRING DIAGRAM**



- A B MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE
- C D G H I J ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
- H J ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
- L CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
- ML MICROLOOP PROBE
- EPS EXISTING POWER SUPPLY
- EPD EXISTING PHONE DROP

**POLE, SIGNAL HEAD, AND SIGN LOCATIONS**



**PHASE CHART**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 + 5	←G	←G	R	R	←G	←G	R	R	R	R	R	R	R	R
PHASE 1 + 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASE 1 + 6, 2 + 5 OR 2 + 6													
PHASE 1 + 6	←G	←G	G	G	←R	←R	R	R	R	R	R	R	R	R
PHASE 1 + 6 CHANGE	←Y	←Y	G	G	←R	←R	R	R	R	R	R	R	R	R
PHASE 2 + 5	←R	←R	R	R	←G	←G	G	G	R	R	R	R	R	R
PHASE 2 + 5 CHANGE	←R	←R	R	R	←Y	←Y	G	G	R	R	R	R	R	R
PHASE 2 + 6	←R	←R	G	G	←R	←R	G	G	R	R	R	R	R	R
PHASE 2 + 6 CHANGE	←R	←R	Y	Y	←R	←R	Y	Y	R	R	R	R	R	R
PHASE 3	←R	←R	R	R	←R	←R	R	R	G	G	G	R	R	R
PHASE 3 CHANGE	←R	←R	R	R	←R	←R	R	R	Y	Y	Y	R	R	R
PHASE 4	←R	←R	R	R	←R	←R	R	Y	R	R	R	G	G	G
PHASE 4 CHANGE	←R	←R	R	R	←R	←R	R	R	R	R	R	Y	Y	Y
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

TP-4

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
**TRAFFIC ENGINEERING DESIGN DIVISION**  
US 40 (PULASKI HIGHWAY) AND EBENEZER ROAD  
GENERAL INFORMATION

**STV Incorporated**  
engineers/architects/planners/scientists/construction managers  
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

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CHECKED BY: B. BIDDLE	S.H.A. NO. BA7655176		
SCALE: NONE	COUNTY: BALTIMORE	T.I.M.S. NO. F470	10 OF 43
DATE: JULY 2005	LOG MILE: 03004021.50		