

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE TRAFFIC SIGNAL AT MD 140 (BALTIMORE BOULEVARD) AND RALPH STREET/CRANBERRY ROAD IN CARROLL COUNTY. DUE TO THE SAFETY AND RESURFACING PROJECT ALONG MD 140, VIDEO DETECTION CAMERAS WILL BE INSTALLED FOR PRESENCE DETECTION ON ALL APPROACHES AND NON-INVASIVE MICROLOOP PROBES WILL BE INSTALLED FOR SET BACK DETECTION ALONG MD 140. MD 140 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET, CONTROLLER, EQUIPMENT AND ASSOCIATED HARNESSES SHALL REMAIN. THE SHA SIGNAL SHOP WILL INSTALL ONE (1) VIDEO DETECTION INTERFACE WITHIN THE CABINET.

PHONE DROP

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

Mr. John Concannon
Assistant District Engineer - Traffic
Phone: 301-624-8140/8141

Ms. Andrea Abend
District Utilities Engineer
Phone: 301-624-8105/8116

Mr. Raymond Johnson
Assistant District Engineer - Maintenance
Phone: 301-624-8105/8106

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

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

The Power Company Is:
Baltimore Gas and Electric Company
7317 Parkway Drive South
Hanover, Md 21076
Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

CATEGORY CODE	QUANTITY	DESCRIPTION
900000	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

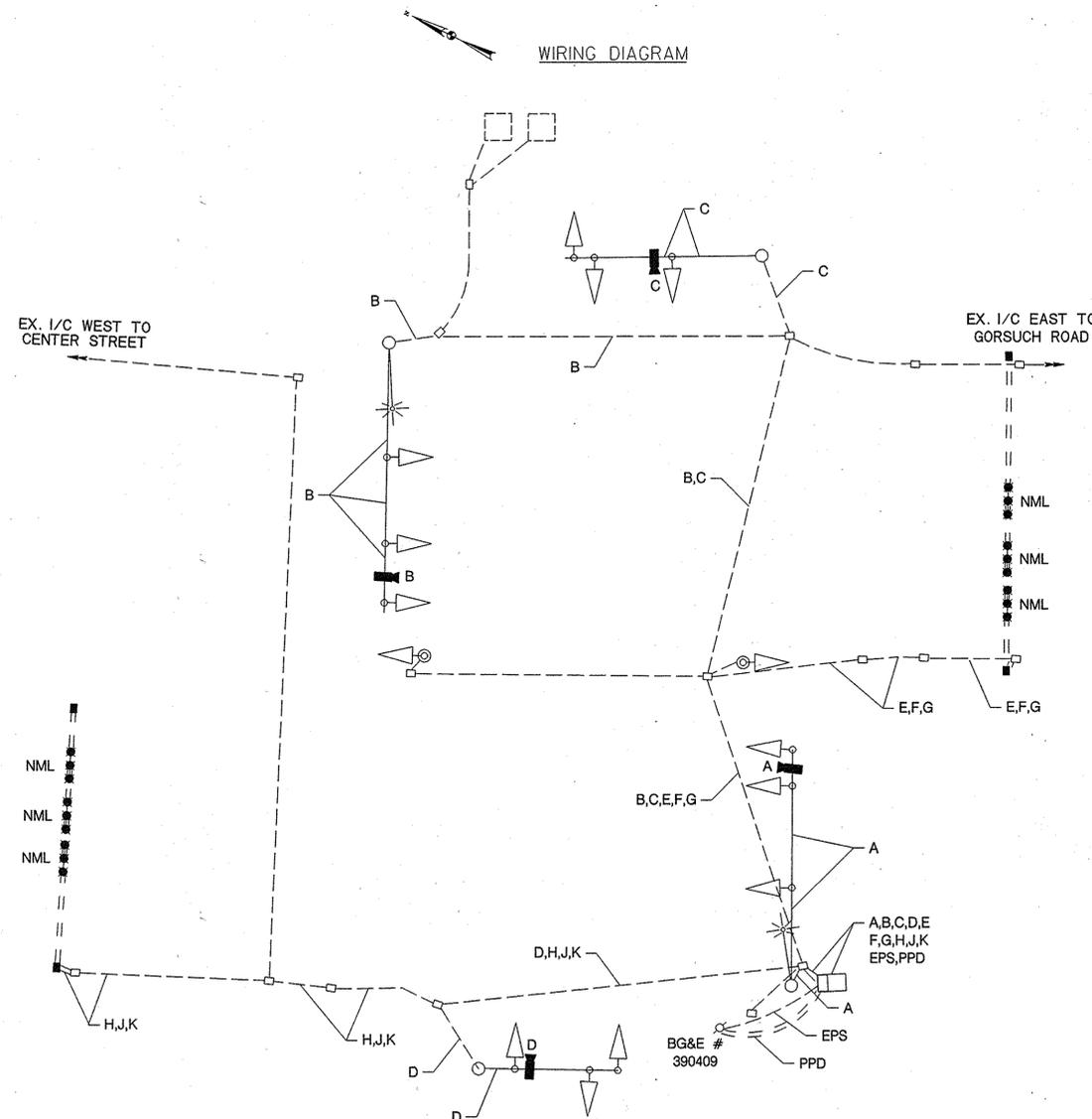
CATEGORY CODE	QUANTITY	DESCRIPTION
NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR		

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

CATEGORY CODE	QUANTITY	DESCRIPTION
120500	1 LS	MAINTENANCE OF TRAFFIC
585625	200 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
800000	1 LS	REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT
805125	30 LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805135	35 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805150	140 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
810605	6 EA	NON-INVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
811001	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
816001	4 EA	VIDEO DETECTION CAMERA
816005	2 EA	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
816010	2 EA	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 AND 5	+G-	+G-	R	R	+G-	+G-	R	R	R	R	R	R	R	R
PHASE 1 AND 6	+G-	+G-	G	G	+R-	+R-	R	R	R	R	R	R	R	R
1 CHANGE	+Y-	+Y-	G	G	+R-	+R-	R	R	R	R	R	R	R	R
PHASE 2 AND 5	+R-	+R-	R	R	+G-	+G-	G	G	R	R	R	R	R	R
5 CHANGE	+R-	+R-	R	R	+Y-	+Y-	G	G	R	R	R	R	R	R
PHASE 2 AND 6	+R-	+R-	G	G	+R-	+R-	G	G	R	R	R	R	R	R
2 AND 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	R	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

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 140 (BALTIMORE BOULEVARD) AT
RALPH STREET/CRANBERRY ROAD

GENERAL INFORMATION

SCALE NONE ADVERTISED DATE 11/2008 CONTRACT NO. CL3365177

DESIGNED BY VGN COUNTY CARROLL
DRAWN BY CCW LOGMILE 06014008.73
CHECKED BY BAB CSW TMS NO. 1-344
F.A.P. NO. SEE TITLE SHEET TOD NO.

TS NO. 3145B-GI DRAWING SG- 6 OF 9 SHEET NO. OF

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