

PROJECT DESCRIPTION

I. GENERAL:

THIS PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD-2 (GOV. RITCHIE HWY.) AND 6TH AVENUE IN ANNE ARUNDEL COUNTY.

MD-2 (GOV. RITCHIE HWY.) IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION:

A SYSTEM READY BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT WILL BE INSTALLED AT THE INTERSECTION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES.

MAINLINE MD-2 OPERATES CONCURRENTLY WITH LEAD LAG LEFT TURNS. 6TH AVENUE OPERATES CONCURRENTLY. THIS INTERSECTION IS PART OF THE MD-2 INTERCONNECT SIGNAL SYSTEM.

VIDEO CAMERAS SHALL PROVIDE PRESENCE DETECTION. STREET LIGHTING AND STREET NAME SIGNS SHALL BE UPDATED TO CURRENT STANDARDS.

PROJECT CONTACTS

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

- |   |   |
|---|---|
| MS. KIMBERLY TRAN<br>ASST. DISTRICT ENGINEER-TRAFFIC<br>PHONE: 410-841-1003     | MR. RICHARD DAFF<br>CHIEF-TRAFFIC OPERATIONS DIV.<br>PHONE: 410-787-7630  |
| MR. JAMES FOLDEN<br>ASST. DISTRICT ENGINEER-CONSTRUCTION<br>PHONE: 410-841-1031 | MR. EDWARD RODENHIZER<br>CHIEF-SIGNAL OPERATIONS SECT.<br>PHONE: 410-787-7652   |
| MR. JOHN MAYS<br>ASST. DISTRICT ENGINEER-MAINTENANCE<br>PHONE: 410-841-1013     | MR. SONNY BAILEY<br>CHIEF-SIGN SHOP<br>PHONE: 410-787-7676  |
| MR. MIKE HUBER<br>UTILITY ENGINEER<br>PHONE: 410-787-7652                       | POWER COMPANY REPRESENTATIVE:<br>BALTIMORE GAS AND ELECTRIC<br>7317 PARKWAY DRIVE SOUTH<br>HANOVER, MARYLAND 21076<br>PHONE: 410-850-4620 |

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE STANDARD PLATES FOR TRAFFIC CONTROL FROM SECTION MD 104.00 OF THE STANDARDS FOR HIGHWAYS & INCIDENTAL STRUCTURES.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION	QUANTITY
900000	LOCAL CONTROLLER AND CABINET: SIZE '6' WITH ALL NECESSARY EQUIPMENT HOUSED; BASE-MOUNTED CABINET.	1 EA.
973023	FLAT SHEET ALUMINIUM SIGNS CONSISTING OF: 1 EA R3-5(L) "LEFT ONLY" (30"x36") MAST ARM MOUNT 1 EA R3-6(R) "RIGHT AND THRU" (30"x36") MAST ARM MOUNT 2 EA R4-7 "KEEP RIGHT" (18"x24") GROUND MOUNT  D-3(2) (16"x VAR.) MAST ARM MOUNT (DUAL FACED): 1 EA "Gov. Ritchie Hwy." 2 EA "6th Avenue"  GUIDE SHIELD ASSEMBLY (24"x51") GROUND MOUNT: 1 EA "NORTH, MD 2, RIGHT ARROW" 1 EA "SOUTH, MD 2, RIGHT ARROW"  GUIDE SHIELD ASSEMBLY (36x75) POLE MOUNT: 1 EA "NORTH, MD 2, LEFT ARROW" 1 EA "SOUTH, MD 2, LEFT ARROW"	108 SF.

EQUIPMENT LIST "B"

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

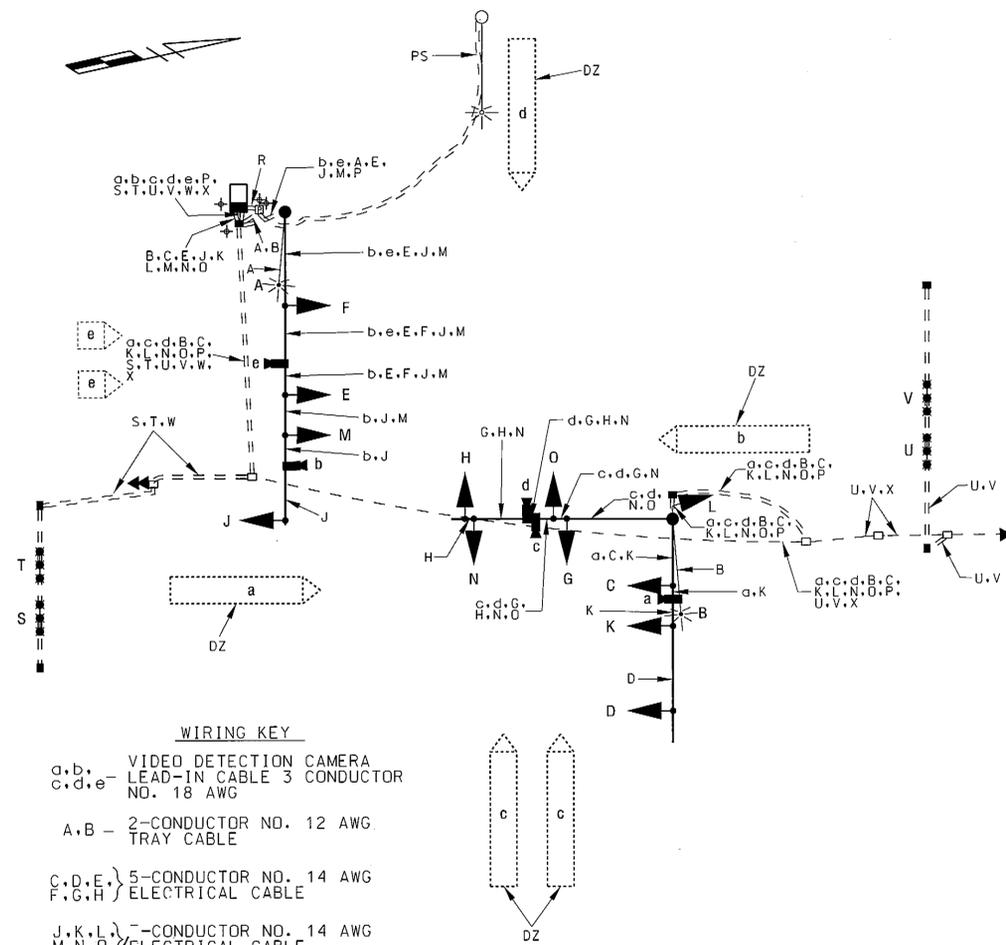
CATEGORY CODE NO.	DESCRIPTION	QUANTITY
100000	MAINTENANCE OF TRAFFIC	1 EA.
203030	TEST PIT EXCAVATION	2 CY.
585619	5" YELLOW HEAT APPL. PERMANENT THERMO. PVMNT. MKG.	200 LF.
800000	ADJUST HANDHOLE. NEW FRAME AND COVER	4 EA.
800000	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT LUMINAIRE AND LAMP	2 EA.
800000	MAST ARM POLE & 70 FT MAST ATM ANY "T" DIMENSION	1 EA.
800000	NON-INVASIVE MICRO LOOP TRIPLE PROBE SET ANY LENGTH LEAD IN	4 EA.
800000	REMOVE & DISPOSE OF EXISTING EQUIPMENT	1 EA.
800000	TWIN MAST ARM POLE & 50/50 MAST ARMS ANY "T" DIM.	1 EA.
800000	VIDEO CAMERA & CABLE ANY LENGTH TO CONTROLLER	5 EA.
800000	DISCONNECT, PULL BACK & RE-ROUTE EXISTING CABLES	640 LF.
800000	SCHEDULE 80 PVC CONDUIT UP TO 4" - BORED	195 LF.
800000	SCHEDULE 80 PVC CONDUIT UP TO 4" - SLOTTED	15 LF.
800000	SCHEDULE 80 PVC CONDUIT UP TO 4" - TRENCHED	380 LF.
800000	WOOD SIGN POST UP TO 4X6	60 LF.
800000	INSTALL OVERHEAD OR GROUND MOUNTED SIGN	108 LF.
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	250 LF.
807202	METERED SERVICE PEDESTAL	1 EA.
810022	CABLE 1-CONDUCTOR, NO. 8 AWG-THHN/THWN	40 LF.
811001	INSTALL ELECTRICAL HAND-HOLE	6 EA.
860284	12" LED SIGNAL SECTION	36 EA.
861107	ELECTRICAL CABLE-5 CONDUCTOR (NO.14 AWG)	500 LF.
861108	ELECTRICAL CABLE-7 CONDUCTOR (NO.14 AWG)	1420 LF.
861116	ELECTRICAL CABLE-2 CONDUCTOR (NO.12 AWG TRAY CABLE)	300 LF.
871202	INSTALL CONTROLLER & CABINET. BASE MOUNT	1 EA.

EQUIPMENT LIST "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.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 + 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 + 6	◁R	◁R	G	G	◁R	◁R	G	G	R	R	R	R	R	R
6 CHANGE	◁R	◁R	Y	Y	◁R	◁R	G	G	R	R	R	R	R	R
PHASE 2 + 5	◁R	◁R	R	R	◁G	◁G	G	G	R	R	R	R	R	R
2 + 5 CHANGE	◁R	◁R	R	R	◁Y	◁Y	Y	Y	R	R	R	R	R	R
PHASE 4 + 8	◁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	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	◁FL/R	◁FL/R	FL/Y	FL/Y	◁FL/R	◁FL/R	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 2 (GOVERNOR RITCHIE HWY.)  
AT 6TH AVE.**

**GENERAL INFORMATION PLAN**

SCALE: 1" = 20' DATE: \_\_\_\_\_ CONTRACT NO. AA 2615168

DESIGNED BY: WAE COUNTY: ANNE ARUNDEL  
DRAWN BY: \_\_\_\_\_ LOGMILE: 02000236.99  
CHECKED BY: [Signature] TIMS NO.: J661  
FAP NO.: \_\_\_\_\_ TOD NO.: \_\_\_\_\_

TS NO. 782-D-G1 DRAWING: 2 OF 2 SHEET NO. 15 OF 31

**WAE**  
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Millsville, Maryland 21103  
Phone: 410-729-1004  
Facsimile: 410-729-1009

**CENTURY**  
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CONSULTING ENGINEERS - PLANNERS  
10710 GILROY ROAD  
HUNT VALLEY, MD 21031

BY: SUSERNAMES

PLOTTED: 8/24/2015  
FILE: SPLES