

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES TRAFFIC SIGNAL MODIFICATIONS TO SUPPORT AN ADDITIONAL SOUTHBOUND LEFT TURN LANE AT THE INTERSECTION OF MD 4 (SOLOMONS ISLAND ROAD) AT WARD ROAD IN CALVERT COUNTY. THE SOUTHBOUND APPROACH WILL BE WIDENED AND THE SETBACK DETECTION WILL BE REPLACED. MD 4 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC ACTUATED MODE. THE SIDE STREETS FOR THIS LOCATION WILL OPERATE UTILIZING A SPLIT PHASE SEQUENCE FOR THE EAST AND WEST BOUND APPROACHES. THE MAIN LINE WILL OPERATE UTILIZING A LEAD LAG PHASING. THE LEFT TURN PHASE FOR THE NORTHBOUND APPROACH IS THE LEAD AND THE LEFT TURN FOR THE SOUTHBOUND OPERATES AS THE LAG.

THE CONTACT PERSONS FOR DISTRICT #5/OOTS ARE AS FOLLOWS:

- District #5
- Ms. Kimberly Tran
Assistant District Engineer - Traffic
Phone: 410-841-1019
- Mr. Mike Huber
District Utility Engineer
Phone: 410-841-1039
- Mr. Joseph Ceckle
Assistant District Engineer - Maintenance
Phone: 410-841-1013
- Mr. James Folden
Assistant District Engineer - Construction
Phone: 410-841-1004
- Office of Traffic & Safety
- Ms. Corren Johnson
Chief, Traffic Operations Division
Phone: 410-787-7630
- Mr. Edward Rodenhizer
Chief, SHA Traffic Signal Shop
Phone: 410-787-7650
- Mr. Eugene Bailey
Chief, SHA Sign Operation
410-787-7670
- The Power Company Representative is:
Southern Maryland Electric Cooperative
901 Dares Beach Road
Prince Frederick, MD 20678
Phone: 410-535-4400

EQUIPMENT LIST 'A'

EQUIPMENT TO BE SUPPLIED BY THE SHA

CAT CODE QUANTITY DESCRIPTION

NONE

EQUIPMENT LIST 'B'

APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

CAT CODE QUANTITY DESCRIPTION

800000	15 SF	FURNISH AND INSTALL SHEET ALUMINUM SIGNS - MAST ARM/GROUND MOUNT 2 EA - R3-5(L) (30"x36")
810605	2 EA	NON-INVASIVE MICROLOOP PROBE, 1000 FOOT LEAD-IN CABLE
818006	1 EA	20 FOOT BREAKAWAY PEDESTAL POLE
860284	6 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION

EQUIPMENT LIST 'C'

EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

CAT CODE QUANTITY DESCRIPTION

120500	1 LS	MAINTENANCE OF TRAFFIC
585624	30 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
801004	1 CY	CONCRETE FOR SIGNAL FOUNDATION
805115	65 LF	3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
805135	315 LF	3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
811011	3 EA	ELECTRICAL HANDHOLE
822500	1 EA	AS BUILT FOR SHA ON CADD
861108	600 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

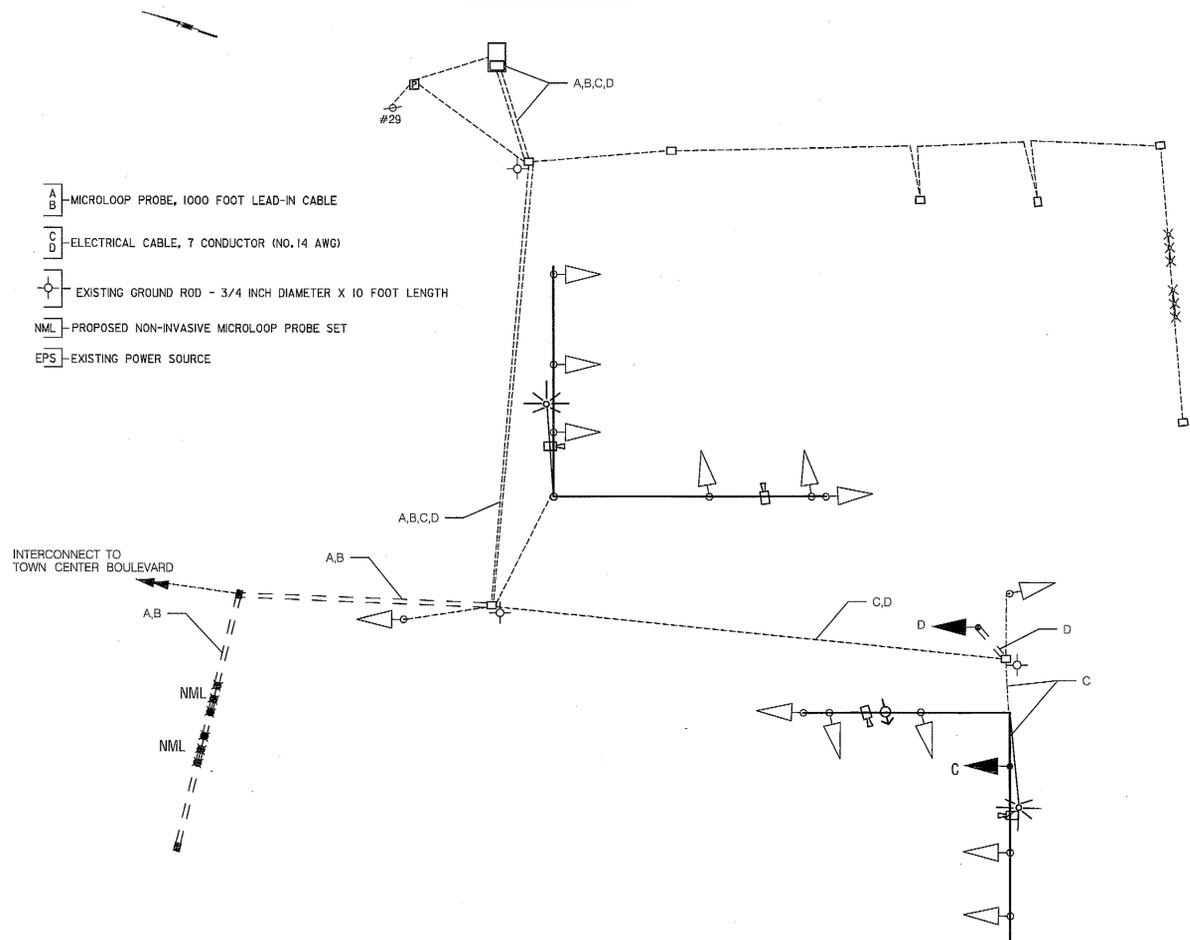
EQUIPMENT LIST 'D'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

CAT CODE QUANTITY DESCRIPTION

NONE - ALL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PHASE 1 + 6	⊕	⊕	⊕	G	G	⊕	⊕	⊕	⊕	R	R	R	R	R	R
PHASE 1 CHANGE	⊕	⊕	⊕	G	G	⊕	⊕	⊕	⊕	R	R	R	R	R	R
PHASE 2 + 6	⊕	⊕	⊕	G	G	⊕	⊕	⊕	⊕	G	G	R	R	R	R
PHASE 6 CHANGE	⊕	⊕	⊕	Y	Y	⊕	⊕	⊕	⊕	G	G	R	R	R	R
PHASE 2 + 5	⊕	⊕	⊕	R	R	⊕	⊕	⊕	⊕	G	G	R	R	R	R
PHASE 2 + 5 CHANGE	⊕	⊕	⊕	R	R	⊕	⊕	⊕	⊕	Y	Y	R	R	R	R
PHASE 3	⊕	⊕	⊕	R	R	⊕	⊕	⊕	⊕	R	R	R	R	G	G
PHASE 3 CHANGE	⊕	⊕	⊕	R	R	⊕	⊕	⊕	⊕	R	R	R	R	Y	Y
PHASE 4	⊕	⊕	⊕	R	R	⊕	⊕	⊕	⊕	R	R	G	G	R	R
PHASE 4 CHANGE	⊕	⊕	⊕	R	R	⊕	⊕	⊕	⊕	R	R	Y	Y	R	R
FLASHING OPERATION	FL/RA	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R

PRE-EMPTION PHASE	⊕	⊕	⊕	R	R	⊕	⊕	⊕	⊕	R	R	G	G	R	R
CHANGE	⊕	⊕	⊕	R	R	⊕	⊕	⊕	⊕	R	R	Y	Y	R	R

NOTE:

THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF ONE (1) YEAR. SHOULD CONSTRUCTION NOT BEGIN WITHIN THIS TIME FRAME, THESE PLANS SHALL BE NULL AND VOID WITH A RE-REVIEW REQUIRED FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.

EAPD PERMIT NO. _____

LENHART TRAFFIC CONSULTING
TRAFFIC ENGINEERING & TRANSPORTATION PLANNING

331 Redwood Grove Court Millersville, Maryland 21108
Tel: (410) 987-3888 Fax: (443) 782-2288

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 4 (SOLOMONS ISLAND ROAD) AT
WARD ROAD

GENERAL INFORMATION

SCALE NONE DATE SEPTEMBER 2013 CONTRACT NO. BW-467-802-512

DESIGNED BY MMML COUNTY CALVERT
DRAWN BY MMML LOGMILE 04000433.11
CHECKED BY MMML TMS NO. L280
F.A.P. NO. N/A TOD NO. _____

TS NO. 3171D DRAWING **SG-02** OF 02 SHEET NO. OF