

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE RECONSTRUCTION OF THE TRAFFIC SIGNAL AT THE INTERSECTION OF US 13 BUSINESS (N. SALISBURY BOULEVARD) AT BROAD STREET / E. CHURCH STREET IN WICOMICO COUNTY. US 13 BUSINESS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE, FULL TRAFFIC-ACTUATED MODE. A SIDE STREET ALTERNATE PEDESTRIAN PHASE IS PROPOSED.

APS WILL FUNCTION AS FOLLOWS:

FOR NORTH SALISBURY BOULEVARD

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS NORTH SALISBURY BOULEVARD, CROSSWALK ANGLES LEFT".
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

CONTROLLER REQUIREMENTS

THE CONTRACTOR SHALL INSTALL BASE MOUNTED CABINET AND FOUNDATION. THE SHA SIGNAL SHOP WILL INSTALL A 2 WIRE CENTRAL CONTROL UNIT, VIDEO DETECTION INTERFACE, CONTROLLER AND ALL OTHER NECESSARY EQUIPMENT WITHIN THE CABINET.

PHONE DROP

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE SHA SIGNAL SHOP AT 410-787-7630 FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #1 / OOTS ARE AS FOLLOWS:

District 1

Mr. Gene Coffell
Assistant District Engineer - Traffic
Phone: 410-677-4040

Mr. Bruce Poole
District Utility Engineer
Phone: 410-677-4082

Mr. James Wright
Assistant District Engineer - Maintenance
Phone: 410-677-4010

Mr. Ravindra Ganvir
Assistant District Engineer - Construction
Phone: 410-677-4020

Office Of Traffic & Safety

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

Mr. Robert Snyder
Assistant Division Chief, Traffic Operations
410-787-7630

Mr. Edward Rodenhizer
Team Leader Signal Operations
Phone: 410-787-7650

Mr. Eugene Bailey
Team Leader Sign Operations
410-787-7670

The Power Company Representative Is:
Delmarva Power
2530 N Salisbury Blvd.
Salisbury, Maryland 21801
1-800-375-7117

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

CATEGORY CODE	QUANTITY	DESCRIPTION
900000	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
971017	1 EA	EIGHT PHASE (FULLY ACTUATED) CONTROLLER AND CABINET - BASE MOUNT
973023	53 SF	SHEET ALUMINUM SIGNS: 2 EA - R10-3(I) (9 IN. x 15 IN.) "N. SALISBURY BLVD." 1 EA - D-3(I) (96 IN. x 32 IN.) "BROAD STREET / E. CHURCH STREET" (DUAL FACED) 1 EA - D-3(I) (96 IN. x 16 IN.) "N. SALISBURY BLVD." 1 EA - SHIELD ASSEMBLY (36 IN. x 75 IN.) "WEST, US 50 BUSINESS, LEFT ARROW"

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

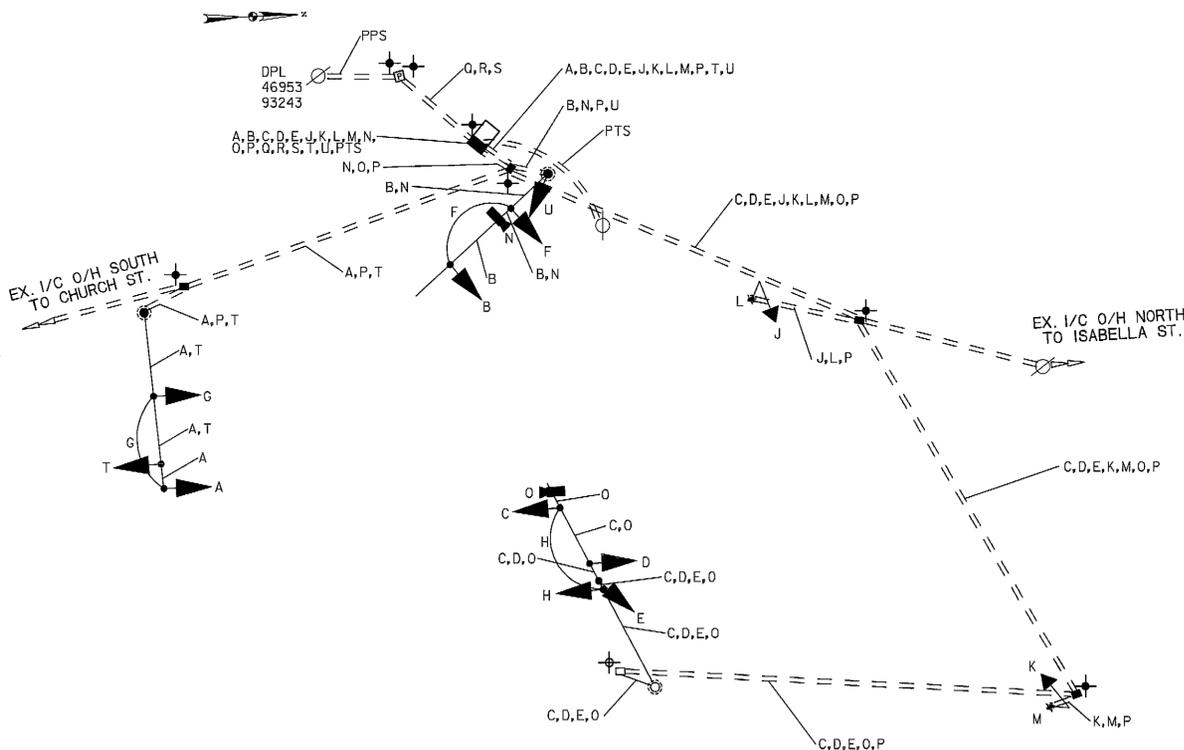
CATEGORY CODE	QUANTITY	DESCRIPTION
120500	1 LS	MAINTENANCE OF TRAFFIC
203030	3 CY	TEST PIT EXCAVATION
585621	370 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585625	105 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
655105	50 SF	5 INCH CONCRETE SIDEWALK
800000	1 EA	2 WIRE CENTRAL CONTROL UNIT
800000	3 EA	8 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
800000	2 EA	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL - POLE MOUNT
800000	2 EA	ACCESSIBLE PEDESTRIAN PUSHBUTTON
800000	1 LS	REMOVE AND DISPOSE OF TRAFFIC SIGNAL EQUIPMENT
800000	2 EA	SOLO (TERRA) VIDEO DETECTION CAMERA
801004	8 CY	CONCRETE FOR SIGNAL FOUNDATION
801106	38 LF	WOOD SIGN SUPPORTS 4 INCH x 6 INCH
802501	465 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805118	310 LF	4 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
805125	65 LF	2 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
805135	200 LF	3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
805140	25 LF	4 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
807202	1 EA	METERED SERVICE PEDESTAL
810010	50 LF	ELECTRICAL CABLE - 1 CONDUCTOR NO. 4 AWG, THHN/THWN
810011	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813014	19 SF	INSTALL GROUND MOUNTED SIGN
813015	34 SF	INSTALL OVERHEAD SIGN
818004	2 EA	10 FOOT BREAKAWAY PEDESTAL POLE
818030	2 EA	STEEL POLE WITH A SINGLE 38 FOOT MAST ARM
837001	7 EA	GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
860284	33 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861105	350 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861106	465 LF	ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)
861107	370 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	1600 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
871117	1 EA	INSTALL EIGHT PHASE (FULLY ACTUATED) CONTROLLER AND CABINET - BASE MOUNT

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

WIRING DIAGRAM



- A ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
- B ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
- C ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
- D ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)
- E NO. 6 STRANDED BARE COPPER GROUND WIRE
- O ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 AWG) THHN/THWN
- R PROPOSED UNDERGROUND POWER SERVICE TO BE INSTALLED BY OTHERS
- S PROPOSED UNDERGROUND TELEPHONE SERVICE TO BE INSTALLED BY OTHERS
- PTS PROPOSED METERED SERVICE PEDESTAL
- PPS EXISTING GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH.
- PROPOSED GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 1 AND 6	+GG	+GG	+GG	G	R	R	R	R	R	R	DW	DW
PHASE 1 CHANGE	+YG	+YG	+YG	G	R	R	R	R	R	R	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	DW	DW
PHASE 2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW
PHASE 4	R	R	R	R	R	R	G	G	G	G	DW	DW
PHASE 4 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW
PHASE 4 ALT.	R	R	R	R	R	R	G	G	G	G	W	W
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	FL/DW	FL/DW
PHASE 4 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 13 BUSINESS (N. SALISBURY BOULEVARD)
AT BROAD STREET / E. CHURCH STREET
ULTIMATE SIGNAL

GENERAL INFORMATION

SCALE: 1" = 20' ADVERTISED DATE: 11/2008 CONTRACT NO.: W16495180

DESIGNED BY: MCG COUNTY: WICOMICO
DRAWN BY: MCG LOGMILE: 22B01305.64
CHECKED BY: BAB TMS NO.: J116
F.A.P. NO.: TOD NO.:

TS NO. 10022-E3-G1 DRAWING **SG-10** OF 10 SHEET NO. OF

BY: quiliamc

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