PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES INSTALLING APS AND COUNTDOWN PEDESTRIAN SIGNALS AT THE INTERSECTION OF US 13 BUSINESS (N. SALISBURY BLVD.) AND ZION/WEST ZION ROAD IN WICOMICO COUNTY. INVASIVE MICROLOOP PROBES WILL BE INSTALLED FOR SET BACK DETECTION ALONG NB US 13 BUS. US 13 BUS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SEVEN-PHASE FULL TRAFFIC-ACTUATED MODE. THE EXISTING PRE-EMPTION PHASES WILL REMAIN. AN ALTERNATE SIDE-STREET PEDESTRIAN PHASE IS PROPOSED.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER SHALL REMAIN. THE SHA SIGNAL SHOP WILL INSTALL THE 2-WIRE CENTRAL CONTROL UNIT.

APS WILL FUNCTION AS FOLLOWS:

TO CROSS NORTH SALISBURY BOULEVARD

A. WHEN THE PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS N. SALISBURY BOULEVARD AT ZION ROAD."

B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

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

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

Mr. Bruce W. Poole
District Utility Engineer
410-677-4082

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

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
1-800-375-7117

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

CATEGORY CODE	QUANTITY	DESCRIPTION
973023	2 SF	SHEET ALUMINUM SIGNS:
		2 EA - R10-3(I) (9 IN. x 15 IN.) "PUSH BUTTON TO CROSS N. SALISBURY BLVD."

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

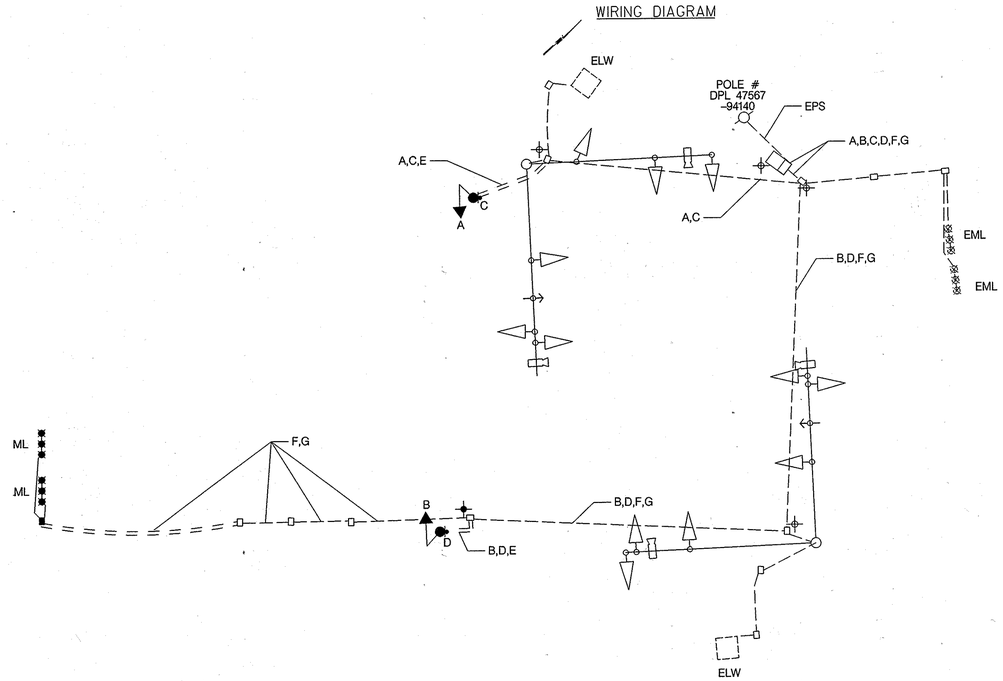
CATEGORY CODE	QUANTITY	DESCRIPTION
114280	170 LF	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS - ANY WIDTH
203030	2 CY	TEST PIT EXCAVATION
585621	170 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
800000	1 EA	2-WIRE CENTRAL CONTROL UNIT
800000	2 EA	ACCESSIBLE PEDESTRIAN PUSHBUTTON
800000	2 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION - POLE MOUNTED
800000	1 LS	REMOVE AND DISPOSE OF TRAFFIC SIGNAL EQUIPMENT
801004	2 CY	CONCRETE FOR SIGNAL FOUNDATION
802145	2 EA	ADJUST EXISTING HANDHOLE
802501	135 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805150	80 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805160	10 LF	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
810555	2 EA	MICROLOOP PROBE - 1000 FOOT LEAD-IN-CABLE
811001	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813015	2 SF	INSTALL OVERHEAD SIGN
818004	2 EA	10 FOOT BREAKAWAY PEDESTAL POLE
837001	1 EA	GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
861105	250 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	250 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
862102	25 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)

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 B ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

C D ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)

E NO. 6 STRANDED BARE COPPER GROUND WIRE

F G MICROLOOP PROBE, 1000 FOOT LEAD-IN-CABLE

PROPOSED GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH.

EXISTING GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH.

EPS - EXISTING POWER SERVICE

ELW - EXISTING LOOP WIRE

EML - EXISTING MICROLOOP PROBE

ML - INVASIVE MICROLOOP PROBE SET

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 AND 5	G/R	G/R	R	G/R	G/R	R	R	R	R	R	R	R	DW	DW
PHASE 1 & 5 MAY CHANGE TO 1 & 6, 2 & 5, OR 2 & 6														
PHASE 1 AND 6	G/G	G/G	G	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 1 CHANGE	Y/G	Y/G	G	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 & 5	R	R	R	G/G	G/G	G	R	R	R	R	R	R	DW	DW
PHASE 5 CHANGE	R	R	R	Y/G	Y/G	G	R	R	R	R	R	R	DW	DW
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	DW	DW
PHASE 2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 3 & 8	R	R	R	R	R	R	R	R	R	G/G	G/G	G	DW	DW
PHASE 3 CHANGE	R	R	R	R	R	R	R	R	R	Y/G	Y/G	G	DW	DW
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW
PHASE 4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW
PHASE 4 & 8 ALT.	R	R	R	R	R	R	G	G	G	G	G	G	W	W
PHASE 4 & 8 ALT. PED. CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	FL/DW	FL/DW
PHASE 4 & 8 ALT. CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW
PRE-EMPTION 1	G/G	G/G	G	R	R	R	R	R	R	R	R	R	DW	DW
PRE-EMPTION 1 CHANGE	Y/Y	Y/Y	Y	R	R	R	R	R	R	R	R	R	DW	DW
PRE-EMPTION 2	R	R	R	G/G	G/G	G	R	R	R	R	R	R	DW	DW
PRE-EMPTION 2 CHANGE	R	R	R	Y/Y	Y/Y	Y	R	R	R	R	R	R	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 13 BUSINESS (N. SALISBURY BLVD.)
AND ZION ROAD/WEST ZION ROAD
SALISBURY, MARYLAND

GENERAL INFORMATION

SCALE NONE ADVERTISED DATE 8/2008 CONTRACT NO. WI3285374

DESIGNED BY SDY
DRAWN BY VGN
CHECKED BY BAB
F.A.P. NO.

COUNTY WICOMICO
LOGMILE 22B01307.76
TIMS NO. 1156
TOD NO.

TS NO. 1855E-GI | DRAWING SG- 6 OF 6 | SHEET NO. OF

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

BY: wstroud

PLOTTED: Thursday, September 11, 2008 AT 07:58 AM
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