

US 13 BUSINESS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING SIGNALS TO REMAIN

EXISTING SIGNALS TO BE BAGGED

EXISTING VIDEO DETECTION CAMERA TO REMAIN

EXISTING SIGNS TO REMAIN

EXISTING SIGNS TO BE REMOVED

NEMA PHASING

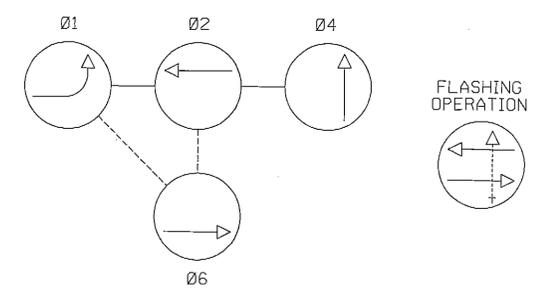
EXISTING SIGNALS TO BE RELOCATED

PROPOSED LED SIGNALS

EXISTING SIGNALS TO BE REMOVED

SIGNAL HEAD LAYOUT

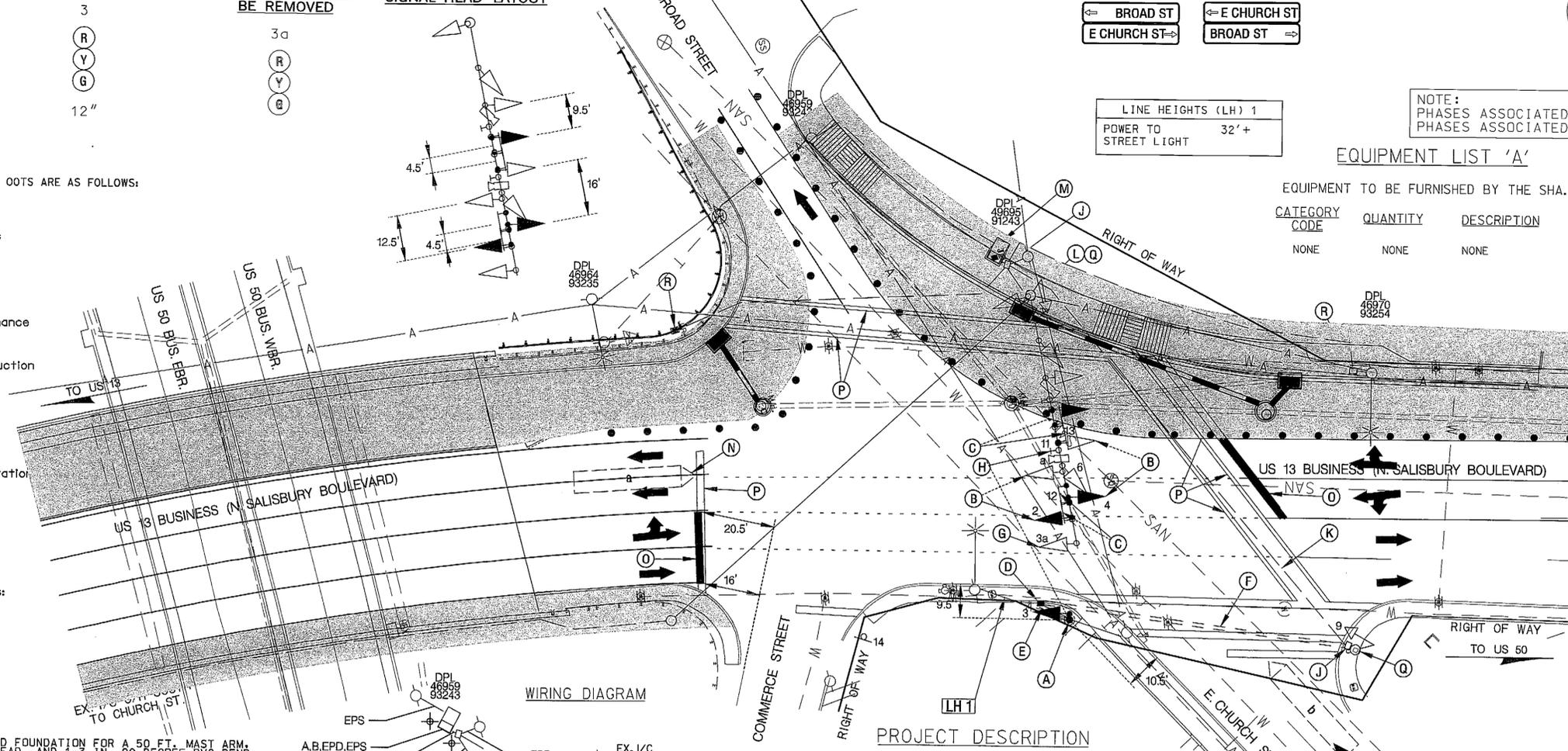
EXISTING SIGNS TO BE RELOCATED



NOTE: PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

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
NONE	NONE	NONE

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

CATEGORY CODE	QUANTITY	DESCRIPTION
114045	55 LF	24 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT
114280	510 LF	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS - ANY WIDTH
120500	1 LS	MAINTENANCE OF TRAFFIC
120773	43 SF	RELOCATE SIGN
203030	1 CY	TEST PIT EXCAVATION
655105	15 SF	5 IN. CONCRETE SIDEWALK
800000	1 EA	REMOVE AND DISPOSE OF TRAFFIC SIGNAL EQUIPMENT
801004	3 CY	CONCRETE FOR SIGNAL FOUNDATION
802501	100 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805115	90 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
805135	10 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
811001	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
818036	1 EA	STEEL POLE WITH A SINGLE 50 FOOT MAST ARM
837001	1 EA	GROUND ROD - 3/4 IN. DIAMETER x 10 FT. LENGTH
860265	3 EA	RELOCATE EXISTING SIGNAL HEAD
860284	3 EA	12 IN. LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861107	300 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

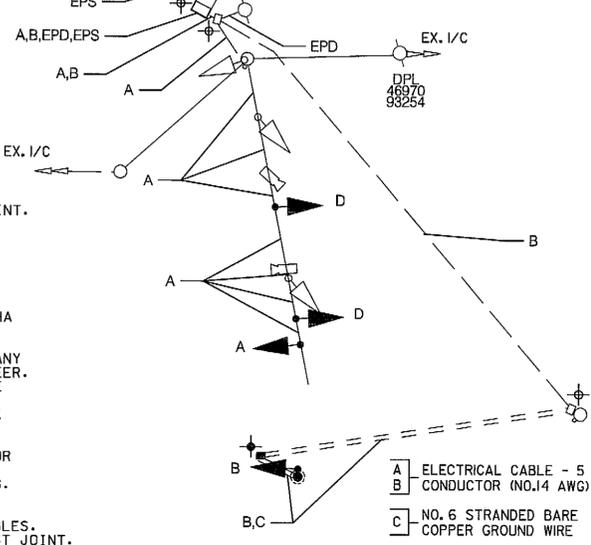
CONSTRUCTION DETAILS

- INSTALL A 21 FT. STEEL POLE AND FOUNDATION FOR A 50 FT. MAST ARM. LEAD VEHICULAR TRAFFIC SIGNAL HEADS 1.5 IN. 90 DEGREE PVC BEND. (NOTE: 90 FT. MAST ARM TO BE INSTALLED DURING FUTURE MOT PHASE)
- RELOCATE EXISTING TRAFFIC SIGNAL HEAD.
- RELOCATE EXISTING OVERHEAD SIGN.
- INSTALL ELECTRICAL HANDHOLE.
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED.
- REMOVE EXISTING OVERHEAD SIGNAL HEAD.
- REMOVE EXISTING OVERHEAD SIGN.
- USE EXISTING HANDHOLE.
- USE EXISTING CONDUIT.
- USE EXISTING POLE.
- USE EXISTING BASE MOUNTED CABINET.
- EXISTING VIDEO DETECTION ZONE TO BE REMOVED BY SHA SIGNAL SHOP.
- INSTALL 24 IN. WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT.
- ALL TRAFFIC SIGNAL MARKINGS TO BE REMOVED BY MILLING.
- EXISTING PUSHBUTTON TO BE DISCONNECTED BY SHA SIGNAL SHOP. PUSHBUTTON TO REMAIN. BAG EXISTING PEDESTRIAN SIGNAL HEADS.
- REMOVE EXISTING HANDHOLE. ABANDON EXISTING CONDUIT.

GENERAL NOTES

- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MSHA STANDARD TYPICALS FOR TRAFFIC CONTROL.
- THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL CABLES.
- THE CONTRACTOR SHALL REMOVE AND REPLACE CONCRETE SIDEWALK AT THE NEAREST JOINT.
- VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- THE CONTRACTOR SHALL INSTALL THE NEW 50 FT. MAST ARM ON PROPOSED SIGNAL POLE DURING ULTIMATE SIGNAL CONSTRUCTION.

WIRING DIAGRAM



GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE RELOCATION OF SIGNAL HEADS TO ACCOMMODATE MAINTENANCE OF TRAFFIC FOR PHASE 1. US 13 BUSINESS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FOUR-PHASE, FULL TRAFFIC-ACTUATED MODE. THE EXISTING SIDE STREET PEDESTRIAN PHASE WILL BE REMOVED FOR THIS PHASE.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER SHALL REMAIN.

PHASE CHART

	1	2	3	4	5	6	7
PHASE 1 AND 6	GG	GG	G	R	R	R	R
PHASE 1 CHANGE	+YG	+YG	G	R	R	R	R
PHASE 2 AND 6	G	G	G	G	G	R	R
PHASE 2 AND 6 CHANGE	Y	Y	Y	Y	Y	R	R
PHASE 4	R	R	R	R	R	G	G
PHASE 4 CHANGE	R	R	R	R	R	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

CATEGORY CODE	QUANTITY	DESCRIPTION
NONE	NONE	NONE

**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  
TEMPORARY SIGNAL - MOT PHASE 1

**SIGNALIZATION PLAN SHEET**

SCALE: 1" = 20' ADVERTISED DATE: 02/08/04 CONTRACT NO.: WJ-633-502-185

DESIGNED BY: THOMAS ZAYDEL COUNTY: WICOMICO  
DRAWN BY: THOMAS ZAYDEL LOGMILE: 22B01305.64  
CHECKED BY: DENNIS DODA JR. TMS NO.: J116  
F.A.P. NO.: TOD NO.:

APPROVALS	REVISIONS
TEAM LEADER	RECONSTRUCT SIGNAL DUE TO NEW BRIDGE GEOMETRICS. SHA# WJ649180
ASSIST. DIV. CHIEF	REPLACE EXISTING SIGNALS W/BLACK FACES
DIVISION CHIEF	REMOVE PRESENCE DETECTION AND INSTALL VIDEO DETECTION
OFFICE DIRECTOR	

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

**UTILITY LEGEND**

—E—E—	ELECTRIC CABLES	—SD—SD—	STORM DRAIN
—A—A—	AERIAL CABLES	—G—G—	GAS MAIN
—T—T—	TELEPHONE CABLES	—W—W—	WATER MAIN
—F—F—	FIBER-OPTIC	—S—S—	SEWER MAIN

**CURRENT WORK ZONE**

**GEOMETRIC LEGEND**

—	EXISTING
—	PROPOSED