PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING HIB LOCATED ALONG SB US 13 (OCEAN HIGHWAY) NORTH OF CONNELLY MILL ROAD IN WICOMICO COUNTY. THE MODIFICATION WILL CONSIST OF INSTALLING A VIDEO DETECTION CAMERA THAT WILL MONITOR SB US 13 TRAFFIC SPEEDS AND CONGESTION WHICH WILL BE WIRED TO THE POLE MOUNTED CABINET AT DAGSBORO ROAD. THE SIGNAL WILL BE RELAYED TO THE BASE MOUNTED CABINET AT CONNELLY MILL ROAD VIA INTERCONNECT, WHICH WILL THEN ACTIVATE THE HIB FLASHERS TO ALERT SB APPROACHING TRAFFIC.

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

INTERSECTION OPERATION

OPERATIONS AT BOTH INTERSECTIONS WILL REMAIN UNCHANGED.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER AT CONNELLY MILL ROAD SHALL REMAIN. THE SHA SIGNAL SHOP SHALL INSTALL ONE (1) SPECIAL RELAY PACKAGE WITHIN THE CABINET. THE EXISTING POLE MOUNTED CABINET AND CONTROLLER AT DAGSBORO ROAD SHALL BE REMOVED AND REPLACED WITH A NEW POLE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT. THE SHA SIGNAL SHOP SHALL INSTALL THE CONTROLLER ASC II WITH TELEMETRY, ONE (1) VIDEO DETECTION INTERFACE EQUIPMENT: 5-8 CAMERAS AND ONE (1) SPECIAL RELAY PACKAGE WITHIN THE CABINET. THE SHA SIGNAL SHOP SHALL ALSO REMOVE THE EXISTING OPTICOM MODULE FROM THE EXISTING CABINET AND REINSTALL IT IN THE NEW CABINET.

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

District 1

Mr. Gene Coflell
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.

ITEM NO	QUANTITY	DESCRIPTION
9000	2 EA	SPECIAL RELAY PACKAGE
9029	1 EA	60 FOOT MAST ARM SINGLE X 21 FOOT POLE
9042	1 EA	CONTROLLER ASC II WITH TELEMETRY
9043	1 EA	CONTROLLER CABINET, SIZE 5
9087	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT: 5-8 CAMERAS
9570	16 SF	SHEET ALUMINUM GROUND MOUNTED SIGN:
		1 EA - W3-3 (48 IN. x 48 IN.)
9571	66 SF	SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN:
		1 EA - W3-3 (48 IN. x 48 IN.)
		1 EA - 'CONGESTION AHEAD, STAY ALERT, WHEN FLASHING' (120 IN. x 60 IN.)

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO	QUANTITY	DESCRIPTION

NONE - THE SHA SIGNAL SHOP WILL REMOVE THE INTERNAL CONTROLLER EQUIPMENT FROM THE EXISTING CABINET.

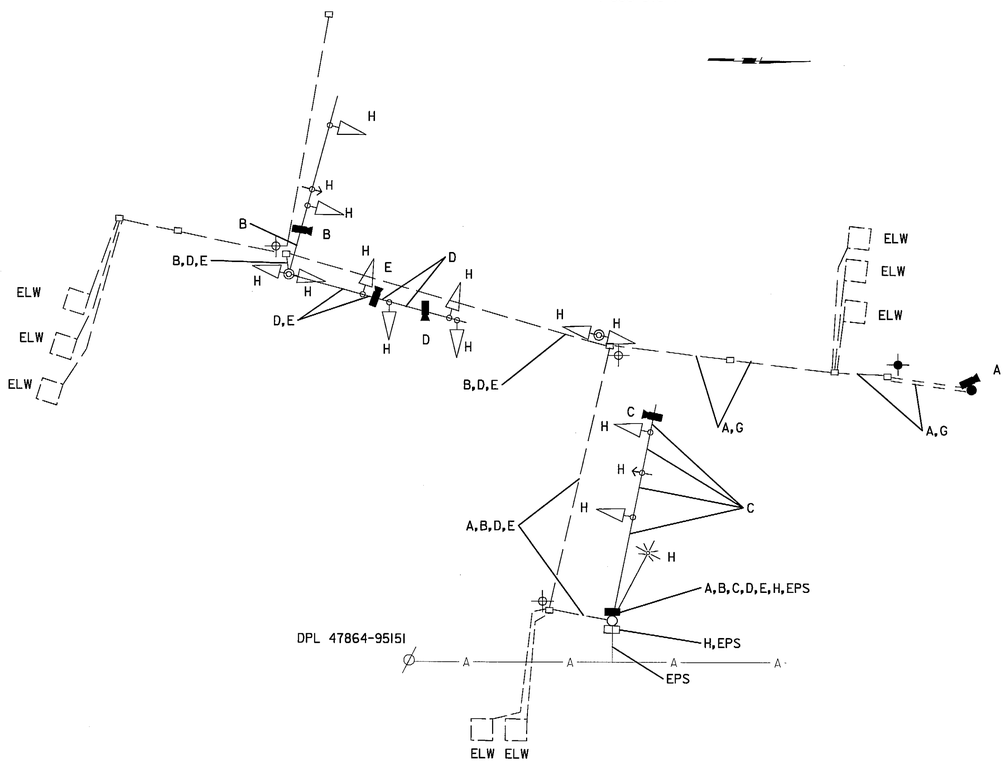
EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2002	1 CY	TEST PIT EXCAVATION
8001	2 EA	12 INCH (YELLOW) LED SIGNAL HEAD SECTION
8011	1 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8017	1 EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8019	1 EA	REMOVE FOUNDATION 12 INCH DEPTH
8024	250 LF	DISCONNECT, PULL-BACK & REROUTE CABLE
8028	100 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8033	33 LF	WOOD SIGN SUPPORTS 4 INCH x 6 INCH
8034	10 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8046	16 SF	INSTALL GROUND MOUNTED SIGN
8047	66 SF	INSTALL OVERHEAD SIGN
8048	4 EA	VIDEO DETECTION CAMERA AND CABLE UP TO 500 FT
~~8054~~	~~1 EA~~	~~CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE~~
8058	25 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8062	1 EA	INSTALL STEEL POLE AND SINGLE MAST ARM ANY SIZE
8066	1 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT
NEG 8000	1 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA WITH 1,000 FOOT CABLE

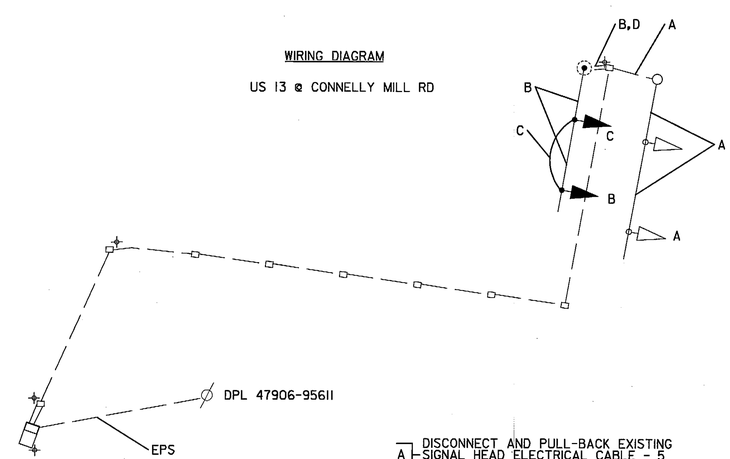
WIRING DIAGRAM

US 13 @ DAGSBORO RD



WIRING DIAGRAM

US 13 @ CONNELLY MILL RD



A - DISCONNECT AND PULL-BACK EXISTING SIGNAL HEAD ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG) AND REUSE

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

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

D - NO. 6 BARE STRANDED COPPER GROUND WIRE

EPS - EXISTING POWER SERVICE

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

A, B, C, D, E - CONTROL CABLE - VIDEO DETECTION CAMERA TO CONTROLLER

G - NO. 6 BARE STRANDED COPPER GROUND WIRE

H - DISCONNECT, PULL-BACK AND REROUTE EXISTING CABLES FROM EXISTING CABINET TO PROPOSED CABINET.

ELW - EXISTING LOOP WIRE

EPS - EXISTING POWER SERVICE

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

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

TOD NO:XX448-40
SHA NO:W1431A53/C53
US 13@CONNELLY MILL RD

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

BY: youngsd

SHA
STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 13 (OCEAN HIGHWAY) AT
DAGSBORO ROAD AND CONNELLY MILL ROAD /WINNER BOULEVARD
DELMAR, MARYLAND

GENERAL INFORMATION

SCALE NONE ADVERTISED DATE 8/2009 CONTRACT NO. XX4485185

DESIGNED BY MCG
DRAWN BY MCG
CHECKED BY BAB
F.A.P. NO.
COUNTY WICOMICO
LOGMILE 22001313.43 TO 22001314.01
TIMS NO. J415
TOD NO.

TS NO. 1985F-GI 3930A-GI | DRAWING SG-03 OF 03 | SHEET NO. 03 OF 03

PLOTTED: Monday, August 03, 2009 AT 08:17 AM
FILE: I:\PROJECTS\4014255\4014255_0007\Drawings\TRA\pSG-N000_US13.dgn