DRILL HOLES

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BORDER REV. DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the reconstruction of an existing Traffic Control Signal with existing overhead interconnect at the intersection of US 13 (BU) (Salisbury Blvd) and Pine Bluff Road in Wicomico County. The existing strain pole Traffic Signal shall be replaced with a new mast arm Traffic Signal Poles with Lighting. Additionally, video detection shall be used for Northbound left turn and Eastbound Pine Bluff Road approaches. US 13 (BU) (Salisbury Blvd) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

1. The intersection shall continue to operate in a NEMA four-phase, fully-actuated mode, with the US 13 (BUS) (Salisbury Blvd) approaches running concurrently. The Exclusive/Permissive left turn phase for northbound US 13 (BUS) shall remain in operation. The Pine Bluff Road approach shall operate as a standard side street phase.

2. A full-traffic-actuated, eight-phase controller with video interface and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.

III. SPECIAL NOTES

1. The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable. Also the contractor shall disconnect, pullback and reroute the existing interconnect cable from the existing controller cabinet through the proposed conduit system to proposed controller cabinet.

2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7652 seventy-two hours in advance of intended work.

3. Upon completion of this project, the Contractor shall notify Mr. Robert Snyder at (410) 787-7631 to arrange for the phone line relocation. The Contractor is to provide Mr. Robert Snyder with the nearest street address, zip code and phone number.

The contact persons for District #1 are as follows:

Mr. Gene Cofiell
Assistant District Engineer - Traffic
Phone: (410) 677-4040

Mr. Wayne Weichmann
Assistant District Engineer - Maintenance
Phone: (410) 677-4010

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

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

Mr. Ed Rodenhizer
Chief, Traffic Signal Operations
410-787-7652

Mr. Sonny Bailey
Chief Sign Shop
410-787-7670

The power company representative is:

Rodney Bain
Delmarva
2530 N. Salisbury Blvd
Salisbury, MD 21802
Phone: 410 860-6242

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

ITEM NO.	DESCRIPTION	QUANTITY	
9571	Sheet aluminum signs to consist of: (mast arm or pole mount)	49.25	SF
	D-3(1) "Pine Bluff Rd." sign (variable x 16") dual faced mast arm mounted.	2	EA
	D-3(1) "Salisbury Blvd." sign (variable x 16") mast arm mounted.	1	EA
	GUIDE SHIELD ASSEMBLY (36"X75") pole mounted. M3-1 "NORTH"(24"X12") M1-4 "US 50"(36"X36") M6-1 "dog leg left arrow "(30"X24")	1	EA
	GUIDE SHIELD ASSEMBLY (24"X51") pole mounted. M3-3 "SOUTH"(24"X12") M1-4 "US 50"(24"X24") M6-1 "right arrow "(21"X15")	1	EA

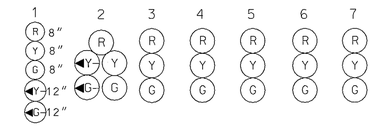
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY	
1003	Maintenance of traffic per assignment.	3	EA
2002	Test Pit Excavation	4	C.Y.
8003	8" LED signal head section.	3	EA
8006	Any size lighting arm on signal pole with 250 watt HPS lamp & luminaire.	2	EA
8008	Breakaway Pedestal pole (14')	1	EA
8015	Mast arm pole and 38' mast arm any "T" dimension	1	EA
8020	Non-invasive detector (any length) lead-in cable up to 1000'.	4	EA
8021	Remove and dispose of material & equipment per assignment.	1	EA
8022	Twin mast arm pole & 50'/60' mast arms any "T" dimension.	1	EA
8025	Video detection camera & cable up to 500'	2	EA
8030	Disconnect, pull back and reroute cable.	300	L.F.
8032	Schedule 80 rigid PVC conduit up to 4" - bored.	575	L.F.
8034	Schedule 80 rigid PVC conduit up to 4" - trenched.	960	L.F.
8036	Install overhead or ground mounted sign (including hardware).	49.25	S.F.
8038	No. 6 AWG stranded bare copper ground wire.	350	L.F.
8041	Metered service pedestal embedded.	1	EA
8043	Electrical cable 1-conductor No. 4 AWG THHN/THWN.	100	L.F.
8045	Furnish and install electrical handhole.	11	EA
8046	Discriminator module, 4 channel No. 764	1	EA
8048	Opticom #721 detector eye.	2	EA
8049	3 inch diameter PVC conduit schedule 80, riser	80	L.F.
8050	12" LED signal head section.	22	EA
8051	Furnish and install 4 conductor opticom cable.	400	L.F.
8056	Electrical cable - 5 conductor (No. 14 AWG).	275	L.F.
8057	Electrical cable - 7 conductor (No. 14 AWG).	800	L.F.
8058	Electrical cable - 2 conductor (No. 12 AWG) TC.	400	L.F.

C. EQUIPMENT TO BE REMOVED

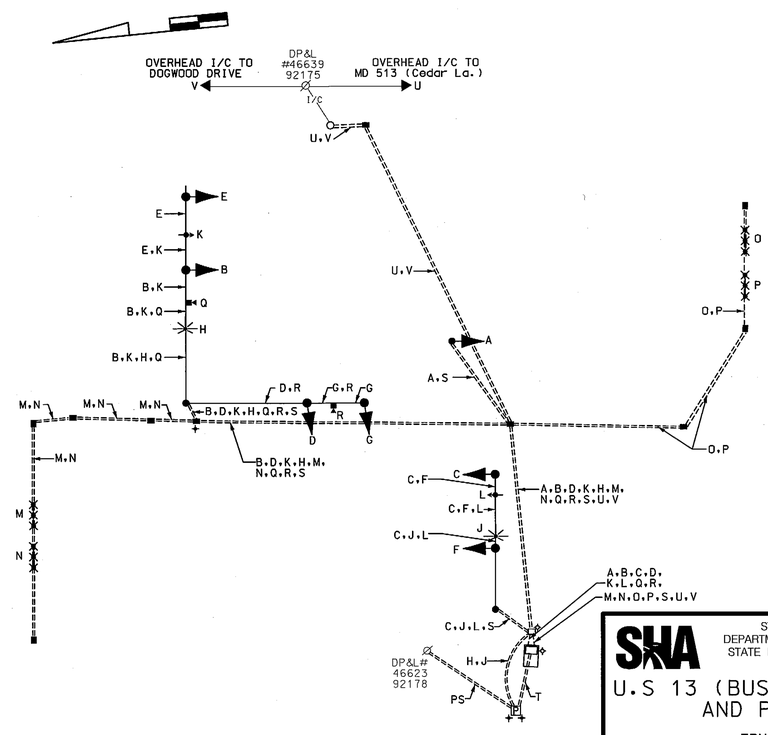
Contractor shall return existing video camera to the SHA Signal Shop. All other removed signal materials are to become the property of the contractor.

PHASE CHART



	1	2	3	4	5	6	7
PHASE 1 & 6	G-/G	G-/G	G	R	R	R	R
1 & 6 CHANGE	Y-/G	Y-/G	G	R	R	R	R
PHASE 2 & 6	G	G	G	G	G	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R
PHASE 4	R	R	R	R	R	G	G
4 CHANGE	R	R	R	R	R	Y	Y
PRE-EMPT 1	G	G	G	G	G	R	R
PRE-EMPT 1 CHANGE	Y	Y	Y	Y	Y	R	R
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R

WIRING DIAGRAM



WIRING KEY

A, B, C, D } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

E, F, G } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

H, J } 2-CONDUCTOR ELECTRICAL TRAY CABLE (NO. 12 A.W.G)

K, L } 4-CONDUCTOR OPTICOM CABLE

M, N, O, P } NON-INVASIVE DETECTOR PROBE SET LEAD-IN (1000')

Q, R } CONTROL CABLE (CAMERA TO CONTROLLER) UP TO 500'

S - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

T - (3) 1 CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)

U,V - REROUTED EXISTING 12-PAIR INTERCONNECT CABLE

PD - PROPOSED PHONE DROP

PS - PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY DELMARVA

+ - GROUND ROD

REVISION "C"

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy.NW.
Glen Burnie,MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

5602AGI.DGN T-190

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

U.S 13 (BUS) (SALISBURY BLVD) AND PINE BLUFF RD.

FRUITLAND, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE 4/15/09 CONTRACT NO. XX4435185

DESIGNED BY James Allen Jr. COUNTY WICOMICO
DRAWN BY James Allen Jr. LOGMILE 22B01303.45
CHECKED BY TIMS NO. J120
F.A.P. NO. TOD NO.

TS NO. 1733C | DRAWING NO. 2 OF 2 | SHEET NO. OF

PLOTTED: $DATETIME$
FILE: $FILE$

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