DRILL HOLES

BORDER REV. DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of Variable Speed Limit Signs at the limits of the school zone for Queen Anne's County High School / Centerville Middle School along US 304 (Ruthsburg Rd) in Queen Anne's County. US 304 (Ruthsburg Rd) is assumed to run a north-south direction.

II. OPERATION

1. A full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be installed within the school zone for the operation of the Variable Speed Limit Signs. Signs shall display 30 mph and the signal heads will flash during school hours, all other times the signs will display 40 mph as per districts request.

III. SPECIAL NOTES

1. The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
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. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
4. Upon completion of this project, the Contractor shall notify Mr. Robert Snyder at (410) 787-7631 to arrange for the phone line installation. The Contractor is to provide Mr. Robert Snyder with the nearest street address, zip code and phone number.

The contact persons for District #2 are as follows:

Mr. Robert Kiel
Assistant District Engineer - Traffic
Phone: (410) 810-3240

Mr. Terry Wright
Assistant District Engineer - Maintenance
Phone: (410) 810-3250

Mr. Barry Clothier
Assistant District Engineer - Utility
Phone: (410) 810-3275

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

Mr. Ed Rodenhizer
Signal Shop
410-787-7652

Mr. Sonny Bailey
Sign Shop
410-787-7676

The power company representative is:

Glenn Awkenbrand
Delmarva
412 Commerce Street
P.O. Box 159
Centerville, MD 21617
Phone: 410 758-4100
Cell: 410 739-7753

EQUIPMENT LIST

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

ITEM NO.	DESCRIPTION	QUANTITY
9042	Controller ASC IIwith telemetry	1 EA
9044	Controller cabinet, size '6' w/ relay package	1 EA
9570	Sheet aluminum signs to consist of: (ground mount)	33 SF
	BS-5 mod '(arrow) / R2-1 (40)' sign, (36"x36")	1 EA
	S4-4(I) 'FINES DOUBLE' sign, (15"x30")	2 EA
	Spec 'Variable Speed Limit' sign, (30" x 42")	3 EA

EQUIPMENT LIST

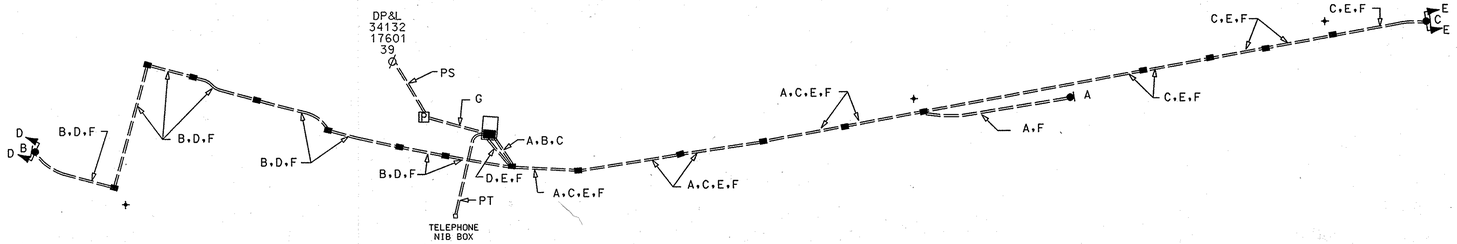
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	2 EA
2002	Test Pit Excavation	3 C.Y.
8001	12" LED (R,Y,G) signal head section.	4 EA
8009	Breakaway Pedestal pole	3 EA
8034	Schedule 80 rigid PVC conduit up tp 4" - trenched.	2900 L.F.
8035	Schedule 80 rigid PVC conduit up tp 4" - bored.	585 S.F.
8036	Wood sign supports up to 4"x6".	16 L.F.
8038	Install overhead or ground mounted sign (including hardware).	33 SF
8040	No. 6 AWG stranded bare copper ground wire.	4000 L.F.
8042	Metered service pedestal embedded.	1 EA
8044	Electrical cable 1-conductor No. 4 AWG THHN/THWN.	125 L.F.
8046	Furnish and install electrical handhole.	17 EA
8055	Electrical cable - 5 conductor (No. 14 AWG).	3250 L.F.
8056	Electrical cable - 7 conductor (No. 14 AWG).	8550 L.F.
8064	Install controller and cabinet base mount.	1 EA

C. EQUIPMENT TO BE REMOVED

All removed signal materials are to become property of the Contractor.

WIRING DIAGRAM



WIRING KEY

A - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

B, C - (2)7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)(ONE 7 COND FOR SIGN,ONE 7 COND. FOR SIGNAL HEADS)

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

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

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

PS - PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY DELMARVA

PT - PROPOSED TELEPHONE DROP

+ - GROUND ROD

TOD No. AT909-30
SHA No. QA342A53/B53

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 304 FROM: EAST OF ROLLING BRIDGE ROAD TO CENTREVILLE TOWN LIMITS

GENERAL INFORMATION SHEET

SCALE NONE DATE 5/21/08 CONTRACT NO. AT9095185

DESIGNED BY JWA COUNTY QUEEN ANNE'S
DRAWN BY R.C. LOGMILE
CHECKED BY TIMS NO. 1992
F.A.P. NO. TOD NO.

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

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

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