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 interconnect at the intersection of MD 2 (Gov Ritchie Hwy) and Jones Station Rd in Anne Arundel County. A new mast arm traffic signal design with LED signal heads, Countdown pedestrian signals with audible pushbuttons and video detection for all approaches shall be installed at this location. MD 2 (Gov Ritchie Hwy) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

1. The intersection shall continue to operate in a NEMA six-phase, fully-actuated mode, with the MD 2 (Gov Ritchie Hwy) approaches running concurrently. Exclusive left turn phases shall continue to be provided for both approaches of MD 2 (Gov Ritchie Hwy). A right turn overlap phase for eastbound Jones Station road shall be provided. The pedestrian phase across the north leg of MD 2 (Gov Ritchie Hwy) shall now be a Countdown pedestrian phase with audible pushbutton actuation. The pedestrian phases across Jones Station shall now be Countdown pedestrian phases with audible pushbuttons on recall. The Jones Station Road approaches shall continue to operate in a split phase mode. The right turn overlap phase for the westbound approach of Jones Station Road shall remain in operation.

2. A new full-traffic-actuated, eight-phase controller with video interface, 2-wire Control Unit 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.

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 relocation of the existing phone drop. The Contractor is to provide Mr. Robert Snyder with the nearest street address, zip code and phone number

5. APS will function as follows:

TO CROSS MD 2 (GOV RITCHIE HWY)

a When pedestrian locates and presses the pushbutton for an extended time, the pushbutton unit will announce the following message " Wait to cross Governor Ritchie at Jones Station ."

b. When the WALK phase begins, the pushbutton unit will provide a rapid tick which will last for the duration of the WALK phase.

TO CROSS JONES STATION

a When pedestrian locates and presses the pushbutton for an extended time, the pushbutton unit will announce the following message " Wait to cross Jones Station at Governor Ritchie ".

b. When the WALK phase begins, the pushbutton unit will provide a rapid tick which will last for the duration of the WALK phase.

The contact persons for District #5 are as follows:

Ms. Kim Tran
Assistant District Engineer - Traffic
Phone: (410) 841-1819

Mr. John Mays
Assistant District Engineer - Maintenance
Phone: (410) 841-1013

Mr. Joe Horty
Assistant District Engineer - Utility
Phone: (410) 841-1005

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

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

Mr. Sonny Bailey
Chief Sign Shop
410-787-7676

The power company representative is:

New Business Construction
Baltimore Gas and Electric
7317 Parkway Drive South
Hanover, MD 21076
410-850-4620

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	DESCRIPTION	QUANTITY
9042	Controller ASC II with telemetry	1 EA
9044	Controller cabinet, size "6"	1 EA
9086	Video detection interface equipment: 1-4 cameras (To be installed by signal shop).	1 EA
9570	Sheet aluminum signs to consist of: (ground mount)	23.5 SF
	R4-7 "KEEP RIGHT (symbolic)" sign, (24" x 30")	1 EA
	R5-1 "DO NOT ENTER" sign, (30" x 30")	2 EA
	Pedestrian education R10-3(1) sign (9"x15"). (Note: Sign to read "PUSHBUTTON TO CROSS GOV RITCHIE HWY".)	2 EA
	Pedestrian education R10-3(1) sign (9"x15"). (Note: Sign to read "PUSHBUTTON TO CROSS JONES STATION RD".)	4 EA
9571	Sheet aluminum signs to consist of: (mast arm or pole mount)	89.5 SF
	D3-2 "Jones Station RD" sign, (variable x 16") (dual faced)	2 EA
	D3-2 "Gov Ritchie HWY" sign, (variable x 16") (dual faced)	2 EA
	R3-5L "LEFT ONLY" (symbolic)" sign, (30" x 36")	1 EA
	R3-5R "RIGHT ONLY" (symbolic)" sign, (30" x 36")	1 EA
	R3-6 "THRU/LEFT LANE" (symbolic)" sign, (30" x 36")	2 EA
	R10-11b "NO TURN ON RED" sign, (24"x24").	2 EA
	W9-2(4) mod "LANE ENDS BEYOND SIGNAL" sign, (42"x30").	1 EA

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1003	Maintenance of traffic per assignment.	3 EA
[1] 2001	Class 2 Excavation.	7 ~~5~~ C.Y.
2002	Test Pit Excavation	11 C.Y.
5004	12" white heat applied permanent preformed thermoplastic pavement marking.	765 L.F.
5005	24" white heat applied permanent preformed thermoplastic pavement marking.	60 L.F.

EQUIPMENT LIST (cont.)

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
5007	Removal of existing permanent pavement line markings	730 L.F.
[1] 6001	Standard type A combination curb and gutter 12" gutter pan 8" depth.	350 ~~310~~ L.F.
6002	5" concrete sidewalk.	1070 S.F.
8001	2 wire Central Control unit	1 EA
~~[1] 8003~~	~~8" LED signal head section.~~	~~4 EA~~
8007	Audible/tactile pedestrian pushbutton station & signs.	6 EA
8008	Breakaway pedestal pole (10').	[3] 5 ~~6~~ EA
8013	LED 16" countdown pedestrian signal heads.	6 EA
~~[1] 8015~~	~~Mast arm pole & 38' mst arm. any "T" dimension.~~	~~1 EA~~
[3] [1] 8018	Mast arm pole & 50' mst arm. any "T" dimension.	[3] [1] 4 ~~2~~ 1 EA
8021	Remove and dispose of existing material & equipment per assignment.	1 EA
~~[3] 8025~~	~~Twin mast arm pole & 50'/50' (cut to 38') mast arms any "T" dimension.~~	~~1 EA~~
8025	Video detection camera arm. and cable up to 500'	4 EA
8031	Disconnect, pull back and reroute cable.	100 L.F.
8033	Schedule 80 rigid PVC conduit up to 4" - bored.	345 L.F.
[2] 8034	Schedule 80 rigid PVC conduit up to 4" - slotted.	150 ~~30~~ L.F.
[3] [1] 8035	Schedule 80 rigid PVC conduit up to 4" - trenched.	[3] [1] 300 ~~280~~ ~~245~~ L.F.
8036	Wood sign supports up to 4"x6".	48 L.F.
8037	Detectable warning surfaces	53 S.F.
8038	Install overhead or ground mounted sign.	113 SF
8040	No. 6 AWG stranded bare copper ground wire.	835 L.F.
8042	Embedded Metered service pedestal.	1 EA
8044	Electrical cable 1-conductor No. 4 AWG THHN/THWN.	75 L.F.
8046	Furnish and install electrical handhole.	6 EA
[3] [1] 8050	12" LED signal head section.	[3] 44 ~~40~~ ~~54~~ EA
8052	Cut, clean, galvanize and cap traffic signal structure.	1 EA
8054	Electrical cable - 2 conductor (No. 14 AWG).	1160 L.F.
8056	Electrical cable - 5 conductor (No. 14 AWG).	1510 L.F.
[3] 8057	Electrical cable - 7 conductor (No. 14 AWG).	[3] 1700 ~~1530~~ L.F.
8065	Install controller and cabinet base mount.	1 EA
[1] 8060	Saw cut curb bump out	100 L.F.

C. EQUIPMENT TO BE REMOVED

SHA Forces shall remove the controller and all auxilliary equipment from the controller cabinet. The cabinet and all other removed signal materials are to become property of the contractor.

[1] REDLINE REVISION 1/6/09
TEDD APPROVAL_____

[1] GREENLINE REVISION 9/12/08
TEDD APPROVAL_____

[2] REDLINE REVISION 1/21/09
TEDD APPROVAL_____

[3] REDLINE REVISION 2/10/09
TEDD APPROVAL 2/23/09

REVISION "1"

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

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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 2 (GOV RITCHIE HWY)
AND JONES STATION ROAD

GENERAL INFORMATION SHEET

SCALE NONE DATE 8/11/08 CONTRACT NO. XX4475185

DESIGNED BY JAMES ALLEN JR. COUNTY ANNE ARUNDEL
DRAWN BY ROB CICCHINI LOGMILE 02000227.71
CHECKED BY _____ TIMS NO. 1608
F.A.P. NO. _____ TOD NO. _____

TS NO. 3231 | DRAWING NO. 2 OF 3 | SHEET NO. OF

PLOTTED: MONDAY, FEBRUARY 23, 2009 AT 11:49 AM
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