PROJECT DESCRIPTION

I. GENERAL

This project involves the reconstruction of two existing Traffic Control Signals. MD 528 (Philadelphia Ave.) at 28th St./ Robin Dr. and MD 528 (Coastal Hwy.) at 59th St. in Ocean City, Worcester County. Interconnect cable shall be maintained or replaced at the above intersections.

MD 528 is assumed to run in a north-south direction.

II. INTERSECTION OPERATION

A. MD 528 and 28th Street / Robin Drive

1. The intersection will continue to operate in a NEMA six-phase, semi-traffic-actuated mode. Video detector cameras shall provided the actuation. MD 528 approaches run concurrently with Exclusive/ Permissive left turns. The 28th St. and Robin Dr. approaches also run concurrently. There are pushbutton actuated pedestrian movements to cross the north and south legs of MD 528.

2. A full-traffic-actuated, eight-phase ASC'S II controller with associated harnesses housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.

B. MD 528 and 59th Street

1. The intersection will continue to operate in a NEMA six-phase, semi-traffic-actuated mode. Video detector cameras shall provided the actuation. MD 528 approaches run concurrently with Exclusive/ Permissive left turns. The 59th St. approaches also run concurrently. There are pushbutton actuated pedestrian movements to cross the north and south legs of MD 528.

2. A full-traffic-actuated, eight-phase ASC'S II controller with associated harnesses housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.

III. SPECIAL NOTES

1. The existing traffic signals shall be turned off and removed prior to the installation of the proposed equipment. The proposed equipment shall be installed in some of the locations of the existing equipment

2. All field wiring to the existing controller cabinet shall be disconnected by the contractor. Mr. Ed Rodenhizer (SHA Signal Shop) shall be contacted at 410-787-7650, seventy-two hours in advance of intended work. The controller and associated equipment shall be removed by the Signal Shop personnel.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A. AND INSTALLED BY THE SIGNAL CONTRACTOR.

ITEM#	QUANTITY	DESCRIPTION
9000	2 EA.	Eight-phase, full-actuated,solid state digital controller with (ASC'S II) and all necessary equipment and harnesses housed in a NEMA size "6" base-mounted cabinet.
9089	179 S.F.	Sheet aluminum signs to conist of:
	4 EA.	R10-12 "LEFT TURN YIELD ON GREEN BALL" sign, (36" x 42") mast arm mounted.
	1 EA.	R3-5L "LEFT TURN ONLY" sign, (30" x 36") mast arm mounted.
	1 EA.	R3-5R "RIGHT TURN ONLY" sign (30" x 36") mast arm mounted.
	1 EA.	R3-6L "THUR & LEFT TURN" sign (30" x 36") mast arm mounted.
	4 EA.	R3-17 mod "RIGHT LANE, BUSES AND, RIGHT, TURNS, ONLY" sign (30" x 42") mast arm mounted.
	4 EA.	R9-1 mod "YIELD, TO PED" sign, (48" x 48") mast arm mounted.
9090	76 S.F.	Sheet aluminum signs to consist of: (Blue/ Green)
	2 EA.	D3-2 "Coastal HWY" sign dual faced (variable X 16") mast arm mounted.
	2 EA	D3-2 "Philadelphia Ave" sign dual faced (variable x 16") mast arm mounted
	1 EA.	D3-2 "ARROW, Robin DR/ Robin DR, ARROW" dual faced sign (variable x 16") mast arm mounted.
	1 EA.	D3-2 "ARROW, 28th Street/ 28th Street, ARROW" dual faced sign (variable x 16") mast arm mounted.
	2 EA.	D3-2 "59 th Street" dual faced sign (variable x 16") mast arm mounted.

EQUIPMENT LIST CONT.

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	3	Maintenance of traffic per assignment.
2001	15	Class 2 Excavation. (for sidewalk and curb / gutter removal)
2002	6	Test Pit Excavation
5004	250	12" white heat applied permanent preformed thermoplastic pavement marking.
5005	100	24" white heat applied permanent preformed thermoplastic pavement marking.
5006	50	5" white heat applied permanent preformed thermoplastic pavement marking.
6001	75	Furnish and install depressed curb and gutter.
6002	65	Standard type A combination curb and gutter 12" gutter pan 8" depth.
6004	1240	4" concrete sidewalk.
8001	4	Pre-manufactured camera to controller (250' length) cable
8003	4	Pre-manufactured camera to controller (500' length) cable
8006	1	Cut, clean, galvanize and cap traffic signal structure.
8010	16	Furnish and install 12" pedestrian signal head section
8011	64	Furnish and install 12" vehicular traffic signal head section
8015	2	Furnish and install 3" weatherhead.
8019	24	Furnish and install 8" vehicular traffic signal head section.
8020	2	Furnish and install control and distribution equipment (120/240 V, 1 phase 3 wire system).
8030	4	Furnish and install breakaway pedestal pole (10').
8032	4	Pedestrian pushbutton and R10-3C sign. (Note: Sign to read "PUSHBUTTON TO CROSS COASTAL HWY".)
8032	4	Pedestrian pushbutton and R10-3C sign. (Note: Sign to read "PUSHBUTTON TO CROSS PHILADELPHIA HWY").
8037	2	Furnish and install 18' special steel pole with twin 60'/50' mast arm (60' arm hase 15' T and 50' arm has 16.5' T).
8037	1	Furnish and install 18' special steel pole with twin 60'/50' (cut to 40'_ mast arm (60' arm has 15' T and 50' arm has 16.5' T).
8038	1	Furnish and install 18' special steel pole with twin 70'/50' mast arm (70' arm hase 15' T and 50' arm has 16.5' T).
8047	8	Remove and dispose of existing foundation 12" below grade.
8048	1	Remove and dispose of existing material and equipment per assignment. (Includes all signal equipment and interconnect cable)
8049	8	Furnish and install video detector camera.
8050	2	Furnish and install video detection interface equipment.
8051	175	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - trenched
8053	50	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - trenched.
8054	4735	Furnish and install 12-pair communication cable, self-supporting (overhead).
8057	28	Furnish and install concrete for signal foundation.

EQUIPMENT LIST CONT.

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
8060	850	Furnish and install No. 6 AWG stranded bare copper ground wire.
8067	500	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - slotted.
8070	100	Furnish and install electrical cable 1-conductor No. 4 AWG THHN/THWN.
8072	10	Furnish and install electrical handhole.
8075	234	Install overhead sign.
8077	70	Furnish and install 2½" electrical conduit schedule 80 polyvinyl chloride - riser.
8080	10	Furnish and install ground rod -¾" x 10'.
8082	1195	Furnish and install electrical cable - 2 conductor (No. 14 AWG).
8083	1230	Furnish and install electrical cable - 3 conductor (No. 14 AWG).
8084	240	Furnish and install electrical cable - 5 conductor (No. 14 AWG).
8085	2975	Furnish and install electrical cable - 7 conductor (No. 14 AWG).
8093	2	Install controller and cabinet base mount.
Neg.	30	Remove and replace brick pavers for the installation of signal equipment.
Neg.	160	Pull back and reroute 12-pair interconnect cable

The following contact persons for District #1 are as follows:

Mr. Donnie L. Drewer
District Engineer
Phone: (410) 677-4006

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

Mr. Jimmy Wright
Assistant District Engineer - Maintenance
Phone: (410) 543-6715

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

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

The power company representative is:

Conectiv Power
Mr. Chris Smith, Customer Engineer
P.O. Box 1739
Salisbury, Maryland 21802-1739
1-410-860-6230

EQUIPMENT LIST CONT.

C. EQUIPMENT TO BE REMOVED.

SHA Forces shall remove the controller and all auxiliary equipment from the controller cabinet. The cabinet and all other materials to be removed by the contractor shall become the property of the contractor.

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

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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 528 AND 28th ST./ ROBIN DR.
MD 528 AND 59th STREET
GENERAL INFORMATION SHEET 1

DRAWN BY: EMM	F.A.P. NO. XX-1065(95)	TS NO. GI-1	SHEET NO. 3 OF 4
CHECKED BY: RRZ	S.H.A. NO.		
SCALE: NONE	COUNTY: WORCESTER	T.I.M.S. NO. E510	
DATE: 10-15-01	LOG MILE:		

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