PROJECT DESCRIPTION

I. GENERAL

This portion of the geometric project (BA7255176), the widening of the westbound roadway of MD 122 from Lord Baltimore Drive to Rolling Road, is to modify the existing Traffic Control Signals, Street Lighting, Signing, and Pavement Markings.

MD 122 in Baltimore County is assumed to run in an east-west direction.

II. INTERSECTION OPERATION

MD 122 and Rolling Road.

1. The existing eight-phase, fully-actuated operation shall remain. MD 122 approaches run concurrently, with exclusive double left turns for the east leg and an exclusive left turn for the west leg. Rolling Road approaches also run concurrently with exclusive double left turns for the north leg and an exclusive left turn for the south leg. Camera detector equipment shall provide the presence detection.

2. A full-traffic actuated, eight-phase master/local controllers, camera interface, detector panel, rack power supply, and six (6) 4-channel rack mounted amplifiers with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be installed at the intersection.

3. The existing loop detector and the 6-pair interconnect cables along with the "pull-line" for the phone drop shall be transfered from the existing cabinet into the proposed cabinet.

MD 122 and Lord Baltimore Drive.

1. The existing six-phase, fully-actuated operation shall remain. MD 122 approaches run concurrently, with exclusive double left turns for the east leg and an exclusive left turn for the west leg. The Security Mall entrance and Lord Baltimore Drive approaches operate concurrently.

2. A full-traffic-actuated, eight-phase local controller, detector panel, rack power supply, and six (6) 4-channel rack mounted amplifiers with all necessary equipment housed in a NEMA size "6" base- mounted cabinet.

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) 787-7650 seventy-two hours in advance of intended work.

3. The Contractor shall be responsible for notifying Miss Utility and verify the location of all the proposed geometics prior to the installation of the signal equipment. All proposed signal equipment shall be installed at final grade.

TRAFFIC SHEET INDEX:

SHEETS 1-4	TRAFFIC SIGNALS
SHEETS 5-7	SIGNING
SHEET 8	PAVEMENT MARKINGS
SHEET 9	LIGHTING
SHEETS 10+11	TRAFFIC SIGNAL'S GENERAL INFORMATION

EQUIPMENT LIST

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

ITEM#	QUANTITY	DESCRIPTION
900000	1 EA.	Eight-phase, full-actuated, solid state digital local controller with six (6) 4-channel rack mounted amplifiers, rack power supply, detector panel and all necessary equipment housed in a NEMA size "6" base-mounted cabinet.
900000	1 EA.	Eight-phase, full-actuated, solid state digital local/ master controller with camera interface, six (6) 4-channel rack mounted amplifiers, rack power supply, detector panel and all necessary equipment housed in a NEMA size "6" base-mounted cabinet.

EQUIPMENT LIST cont.

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

CAT. CODE	QUANITITY	SPEC NO.	DESCRIPTION
201032	6.0 C.Y.	201	Class 2 Excavation.
203030	3 C.Y.	205	Test pit Excavation.
585424	130 L.F.		24" white thermoplastic pavement marking.
585620	160 L.F.		12" white thermoplastic pavement marking.
655104	100 S.F.	610	4" Concrete sidewalk.
800000	2 EA.		3" conduit Schedule 80 bend in existing pole foundation.
800000	1200 L.F.	820	Pull back and install existing electrical cable.
800000	1 EA.		Remove and dispose of existing equipment. (per assignment).
800000	180 L.F.	805	2" (Schedule 80) PVC electrical conduit (trenched).
801104	14 C.Y.	818	Concrete for signal foundation.
801106	36 L.F.	812	4" x 6" wood sign support, (drilled).
802501	300 L.F.	804	No. 6 AWG stranded bare copper ground wire.
805011	120 L.F.	805	1" electrical conduit galvanized steel detector sleeve.
805118	160 L.F.	805	4" (Schedule 80) PVC electrical conduit (bored).
805135	150 L.F.	805	3" (Schedule 80 PVC electrical conduit (trenched).
805140	245 L.F.	805	4" (Schedule 80) PVC electrical conduit (trenched).
805160	64 L.F.	805	1" liquid tight flexible non-metallic conduit for detector sleeve.
807400	2 EA.	807	Electrical utility service equipment (120/240, 1 phase/3 wire system).
810010	20 L.F.	816	1- conductor (No. 4 AWG) electrical cable (THHN/THWN).
810550	4 EA.		Microloop probe set with 500' lead-in.
810555	8 EA.		Mircoloop probe set with 1000' lead-in.
811001	7 EA	811	Electrical handhole.
813006	53.35 S.F.	813	Relocate signs from existing overhead structure.
816005	3 EA		Detector camera cable to controller (250' lead in).
816010	1 EA		Detector camera cable to controller (500' lead in).
818052	1 EA.		Steel pole with a single 70' mast arm.
822002	1200 L.F.	818	12- pair communication cable, jellyfilled (underground).
831010	1 EA.	810	250 Watt HPS luminaire and photo cell.
837001	4 EA.	806	Ground rod ¾" dia x 10' length.
860272	15 EA.	804	12" vehicular traffic signal head section (black-faced, mast arm mounted).
861104	3050 L.F.	814	Electrical cable - 2 conductor No. 14 AWG (aluminium shielded).
861107	4750 L.F.	810	Electrical cable - 5 conductor (No. 14 AWG).
861116	990 L.F.	810	2- conductor (No. 12 AWG) electrical cable (copper,T/C)
862101	1750 L.F.	810	Loop wire encased in flexible tubing (No. 14 AWG).
862102	480 L.F.	815	Saw cut for signal (loop detector).
866103	1 EA.	806	15' lighting arm on signal structure.
871202	2 EA.	816	Install controller and cabinet - base mounted.

EQUIPMENT LIST cont.

C. EQUIPMENT TO BE REMOVED

1. SHA Forces shall remove the controllers and all auxiliary equipment from the controller cabinets.

2. The cabinet, signal equipment and all other materials to be removed by the contractor shall become the property of the contractor.

The contact persons for District #4 are as follows:

Mr. Randall Scott
Assistant District Engineer - Traffic
Phone: (410) 321-2781

Mr. Dave Ramsey
Assistant District Engineer - Maintenance
Phone: (410) 321-2761

Mr. Joe McMahon
Assistant District Engineer - Utility
Phone: (410) 321-2841

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

The power company representative is:

BALTIMORE GAS & ELECTRIC POWER COMPANY
Mr. John Freeburger
7317 Parkway Drive
Hanover, Maryland 21076
Phone: (410) 859-9017

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

4040g1-1.dgn TASK 28

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 122 FROM LORD BALTIMORE RD.
TO ROLLING ROAD
GENERAL INFORMATION SHEET 1

DRAWN BY: EMM	F.A.P. NO.		TS NO. 4027D-GI	SHEET NO. 10 OF 11
CHECKED BY: RRZ	S.H.A. NO.	BA7255176		
SCALE: NA	COUNTY:	BALTIMORE	T.I.M.S. NO. E545	
DATE: 4/4/02	LOG MILE:	00.00 TO 00.47		

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