

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting at the intersection of MD 36 and MD 743 in Allegany County. MD 36 is assumed to run in a north-south direction.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA five-phase, fully-actuated mode, with the MD 36 approaches running concurrently. Exclusive/Permissive left turn phases shall be provided for both approaches of MD 36. A pedestrian phase with pushbutton actuation shall be provided across the south leg of MD 36. The MD 743 approaches shall also run concurrently.
- One (1) four-channel, rack mount loop detector amplifier shall be installed into the existing base-mounted cabinet at this intersection.

III. SPECIAL NOTE

All field wiring to the existing controller cabinets shall be terminated to the appropriate controller cabinet connectors by the Contractor and labeled. All other controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two (72) hours in advance of intended work.

EQUIPMENT LISTS

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

QUANTITY	SPEC. SECTION	DESCRIPTION
1 EA	814	8", one-way, three section (R,Y,G) traffic signal head having proper span wire hangers, balance adjusters and tunnel visors.
2 EA	814	12", one-way, three-section (R,Y,G) traffic signal head having proper span wire hangers, balance adjusters and tunnel visors.
1 EA	814	12", one-way, five-section (R,YA,Y,G,G) (left arrows) traffic signal head having proper span wire hangers, balance adjusters and tunnel visors.
1 EA	814	Combination 8"-12", one-way, five-section (8"-R,Y,G) (12"-YA,GA) (left arrows) traffic signal head having proper span wire hangers, balance adjusters and tunnel visors.
10.5 SF	813	Sheet aluminum signs to consist of: 1 EA R10-12 "LEFT TURN YIELD ON GREEN (BALL)" sign, (36" x 42") span wire mounted.
1 EA	863	4-channel, rack mount loop detector amplifier. (To be installed into the existing cabinet by S.H.A. Signal Shop Forces.)

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

QUANTITY	SPEC. SECTION	DESCRIPTION
LS	106	Mobilization.
LS	106	Maintenance of traffic.
150 SF	104	Temporary traffic sign.
10 UD	105	Flashing arrow panels.
1 CY	204	Test pit excavation.
60 LF		Remove 8" laneline/crosshatching pavement marking utilizing grinder method.
40 LF		Furnish and install preformed pavement marking thermoplastic tape, white (8" width for edgeline).
100 LF	SP-555	Furnish and install preformed pavement marking thermoplastic tape, white (5" width for laneline/edgeline).
280 LF	SP-555	Furnish and install preformed pavement marking thermoplastic tape, yellow (5" width for edgeline and centerline).
70 LF	SP-555	Furnish and install preformed pavement marking tape, white (12" width for crosswalks).
60 LF	SP-555	Furnish and install preformed pavement marking tape, white (24" width for stoplines).
0.5 CY	801	Furnish and install concrete foundation.
1 EA	804	Furnish and install ground rod, 3/4" diameter x 10' length.

EQUIPMENT LISTS (CON'T.)

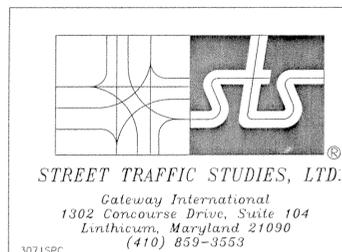
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR. (CON'T.)

QUANTITY	SPEC. SECTION	DESCRIPTION
1 EA	818/821	Install 4' breakaway pedestal pole with transformer base. (Note: Relocated from existing location.)
1 EA	814	Install 8", one-way, three-section traffic signal head, span wire mount.
2 EA	814	Install 12", one-way, three-section traffic signal head, span wire mount.
1 EA	814	Install 12", one-way, five-section traffic signal head, span wire mount.
1 EA	814	Install combination 8"-12", one-way, five-section traffic signal head, span wire mount.
10.5 SF	813	Install overhead mounted sign.
1 EA		Relocate signal head.
345 LF	815	Furnish and install sawcut.
12 LF	805	Furnish and install 1" liquid tight flexible non-metallic electrical conduit (detector wire sleeve).
15 LF	805	Furnish and install 2" polyvinyl chloride electrical conduit (Schedule 80) (bored).
20 LF	805	Furnish and install 2" polyvinyl chloride electrical conduit (Schedule 40) (trenched).
2 EA	811	Furnish and install handhole (frame and cover).
45 LF	804	Furnish and install stranded bare copper ground wire (No. 6 A.W.G.)
980 LF	810	Furnish and install loop wire (No. 14 A.W.G.) encased in 1/4" flexible tubing.
630 LF	810	Furnish and install 2-conductor electrical cable (No. 14 A.W.G.) (aluminum shielded).
290 LF	810	Furnish and install 2-conductor electrical cable (No. 14 A.W.G.)
335 LF	810	Furnish and install 5-conductor electrical cable (No. 14 A.W.G.)
330 LF	810	Furnish and install 7-conductor electrical cable (No. 14 A.W.G.)
1 EA		Remove existing ground mounted sign and post.
2 EA		Relocate existing ground mounted sign and post.
LS	822	Removal and salvage of existing signal equipment.
1 EA		Use existing plan on disk and as-built traffic control device.

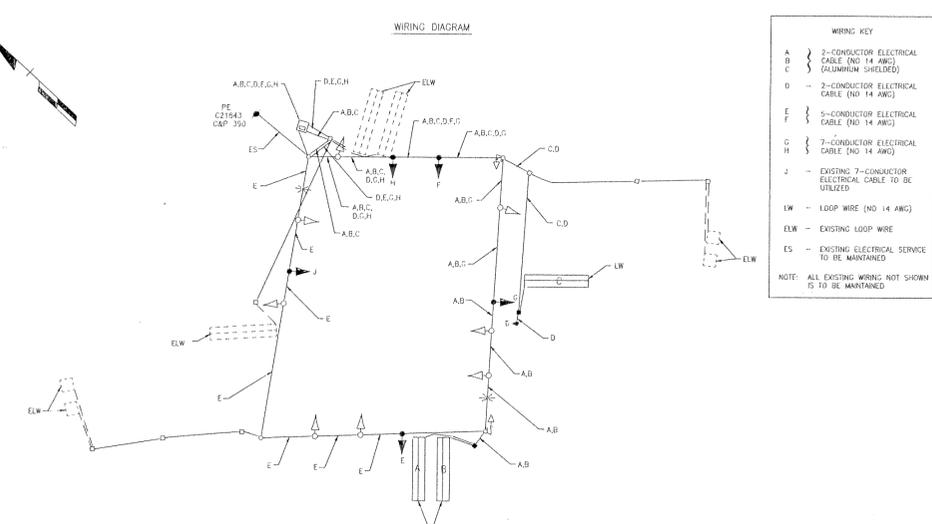
MAINTENANCE OF TRAFFIC SPECIAL PROVISIONS

The following Traffic Control Standard Numbers shall be referenced for the project.

Standard 105.00	Standard 105.01
Standard 105.02	Standard 105.03
Standard 105.202	Standard 105.204
Standard 105.206	Standard 105.208
Standard 105.210	Standard 105.212
Standard 105.214	
Standard 105.302	Standard 105.304
Standard 105.306	Standard 105.308
Standard 105.310	Standard 105.312



REVISIONS	APPROVALS
	CHIEF, SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC AND SAFETY



PHASING CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PHASE 1 & 5	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1 & 5 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
PHASE 1 & 6	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
PHASE 2 & 5	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
5 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
PHASE 2 & 6	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
2 & 6 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
PHASE 4 & 8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
4 & 8 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
PHASE 8 ALT	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PED. CLEARANCE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
8 ALT CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
FLASHING OPERATION	FL/Y	FL/R													

MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic and Safety
TRAFFIC ENGINEERING DESIGN DIVISION

DRAWN BY: W J NIES (FOR STS)	DES. BY: R R ZACHERL (FOR STS)	CHK. BY:	DATE: 11-13-96	F.A.P. NO.:	TS/STD. NO.:	SHEET NO.:
SCALE: N/A			S.H.A. NO. BW93IM82	MD 36 AND MD 743		2 OF 2
GENERAL INFORMATION						ALLEGANY COUNTY
3071SPC						