

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal at the intersection of MD 713 (Ridge Road) and Seven Road / Ridgewood Road in Anne Arundel County. MD 713 (Ridge Road) is assumed to run in a north-south direction.

This project involves a modification to the existing phasing on MD 713. A southbound Exclusive/Permissive left turn phase shall be added to this intersection and advance microloops shall be installed on both approaches of MD 713.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA five-phase, fully-actuated mode, with the MD 713 (Ridge Road) approaches running concurrently. An Exclusive/Permissive left turn phases shall be provided for the southbound approach of MD 713 (Ridge Road). The Ridgewood Road / Severn Road approaches shall also run concurrently.
- The existing full-traffic-actuated, eight-phase controller with two (2) four channel, rack mount loop detector amplifiers with associated harnesses housed in a NEMA size "6" base-mounted cabinet shall be used at this intersection.

III. SPECIAL NOTES

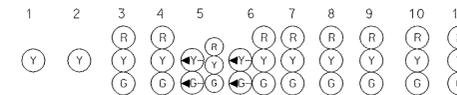
- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- 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.

EQUIPMENT LIST (Cont.)

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

ITEM NO.	DESCRIPTION	QUANTITY
8063	Furnish and install 7 conductor electrical cable (No. 14 AWG)	320 L.F.
8064	Furnish and install loop wire encased in flexible tubing (No. 14 AWG)	470 L.F.
8065	Furnish and install saw cut for signal (loop detector)	135 L.F.

PHASE CHART



PHASE	1	2	3	4	5	6	7	8	9	10	11
PHASE 2 & 5	FL/Y	FL/Y	R	R	G/G	G/G	G	R	R	R	R
2 & 5 CHANGE	FL/Y	FL/Y	R	R	Y/Y	Y/Y	G	R	R	R	R
PHASE 2 & 6	FL/Y	FL/Y	G	G	G	G	G	R	R	R	R
2 & 6 CHANGE	FL/Y	FL/Y	Y	Y	Y	Y	Y	R	R	R	R
PHASE 4 & 8	FL/Y	FL/Y	R	R	R	R	R	G	G	G	G
4 & 8 CHANGE	FL/Y	FL/Y	R	R	R	R	R	Y	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/R	FL/R	FL/R	FL/R						

EQUIPMENT LIST

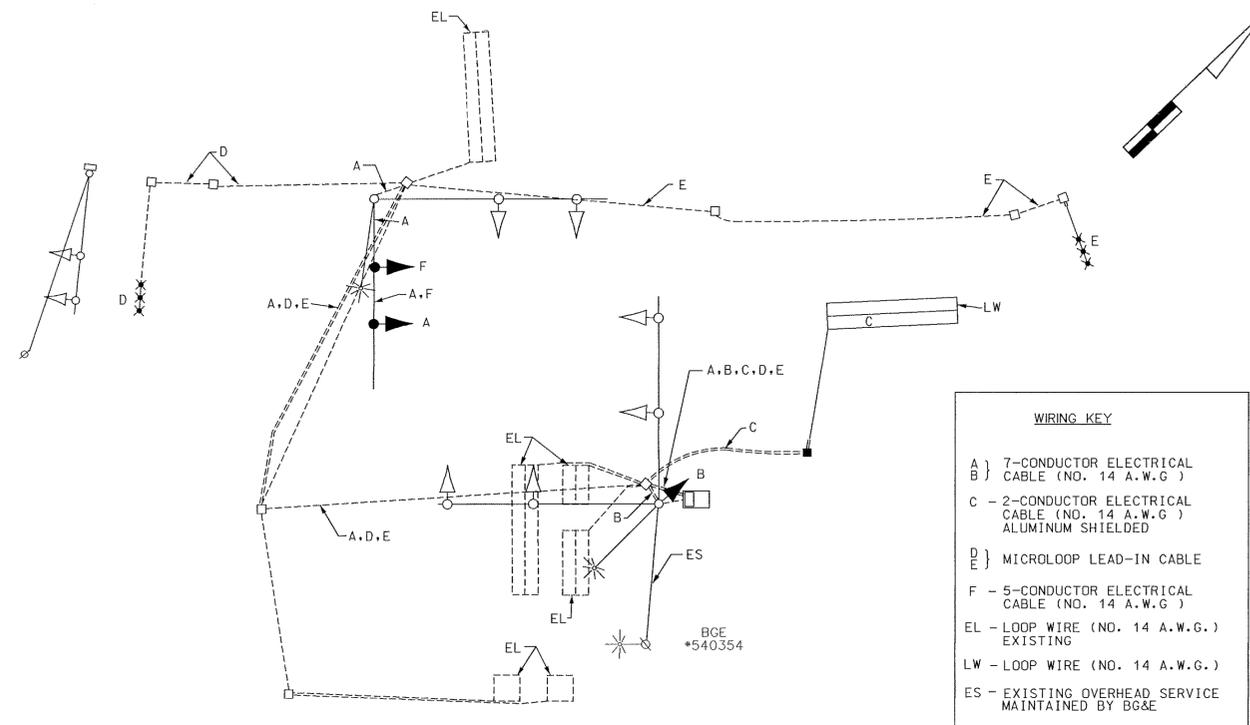
A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

ITEM NO.	DESCRIPTION	QUANTITY
9089	Sheet aluminum signs to consist of: R10-12 "LEFT TURN YIELD ON GREEN (BALL)" sign, (36" x 42") span wire mounted.	10.5 SF 1 EA

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

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
1002	Mobilization	1 EA
8008	Furnish and install microloop probe set with 1000' lead-in.	2 EA
8015	Furnish and install 12" vehicular signal head section.	10 EA
8020	Furnish and install 8" vehicular signal head section.	3 EA
8028	Remove & dispose of equipment (per assignment).	1 EA
8033	Furnish and install 3" schedule 80 polyvinyl chloride conduit - trenched	65 L.F.
8034	Furnish and install 4" schedule 80 polyvinyl chloride conduit - trenched	75 L.F.
8042	Furnish and install 4" schedule 80 polyvinyl chloride conduit - bored	25 L.F.
8046	Furnish and install 1" liquid tight flexible non-metallic conduit for detector sleeve.	20 L.F.
8049	Furnish and install electrical handhole	1 EA
8051	Install overhead sign	10.5 S.F.
8059	Furnish and install 2 conductor electrical cable (alum. shielded)	80 L.F.
8062	Furnish and install electrical cable - 5 conductor (No. 14 AWG).	25 L.F.

WIRING DIAGRAM



WIRING KEY	
A	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
B	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
C	MICROLOOP LEAD-IN CABLE
D	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
E	LOOP WIRE (NO. 14 A.W.G.) EXISTING
F	LOOP WIRE (NO. 14 A.W.G.)
EL	EXISTING OVERHEAD SERVICE MAINTAINED BY B&E

REVISION "C"

 STREET TRAFFIC STUDIES, LTD.
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REVISIONS		APPROVALS	
©	ADD E/P LT & ON SB MD 713 ADD PROBES ON M/L	8-24-00	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
B	ASBUILT	10-26-90	ASST. DISTRICT ENGINEER, TRAFFIC
LMG			CHEIEF TRAFFIC ENGINEERING DESIGN DIVISION
A	ASBUILT - HAWKINS	6-22-90	DIRECTOR, TRAFFIC & SAFETY
AP			

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
 Office of Traffic & Safety
 TRAFFIC ENGINEERING DESIGN DIVISION
 MD 713 (RIDGE RD) AND SEVERN RD/ RIDGEWOOD RD
 2355473502809

DRAWN BY: W.MALCOM	F.A.P. NO. BTO-5-90-012	TS NO. 2631 C
CHECKED BY: G.SIMMERS	S.H.A. NO. 2355473502809	T.I.M.S. NO.
SCALE: 1" = 20'	COUNTY: ANNE ARUNDEL	
DATE: 5-17-90	LOG MILE: 02071303.38	

SHEET NO. 2 OF 2