

**PROJECT DESCRIPTION**

**I. GENERAL**  
 This project involves the installation of a new intersection control beacon (ICB) at the intersection of MD 32 and Stoner Ave in Carroll County, Maryland. MD 32 is considered to run in a north/south direction.

**II. INTERSECTION OPERATION**  
 The ICB is to operate with Flashing Yellow indications for MD 32 and Flashing Red indications for Stoner Ave.

A base mounted cabinet is to be installed at this location.

**III. SPECIAL NOTE:**  
 The Contractor shall notify Mr. Robert Snyder of SHA at 410-787-7635 to arrange for the phone drop installation.

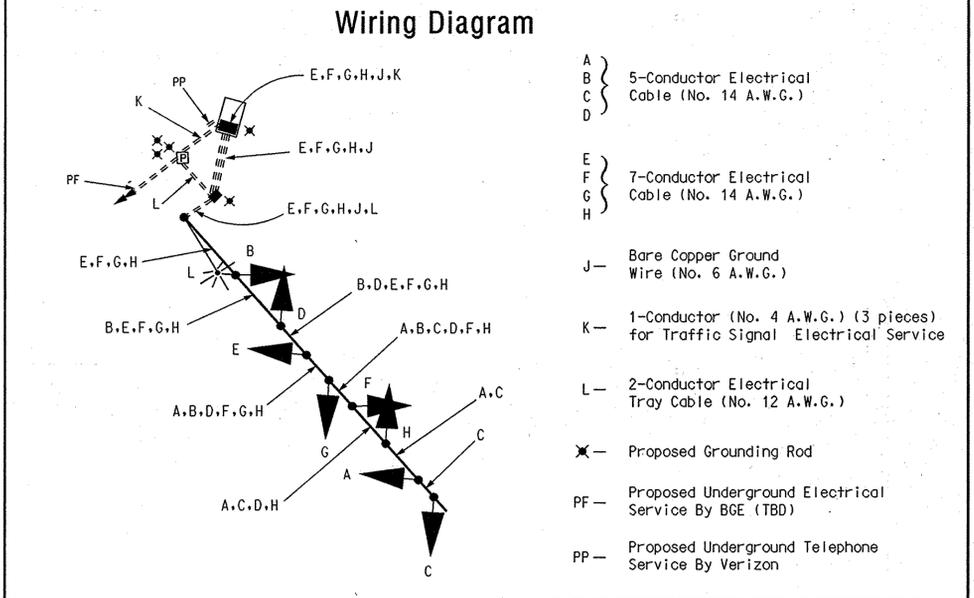
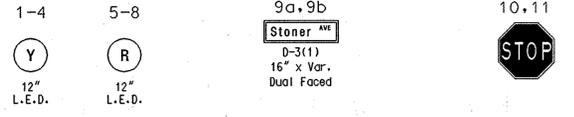
The Contractor is to provide Mr. Snyder with the nearest street number, zip code, and telephone number.

**EQUIPMENT LIST**

- A. S.H.A. furnished equipment material.  
 None.
- B. Equipment to be furnished and installed by the Contractor in accordance with the most recent MD-SHA standards. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Description
Lump Sum	LS	Mobilization.
Lump Sum	LS	Maintenance of traffic.
1	EA	27 ft. steel mast arm pole with a 70 ft. mast arm
1	EA	16 in. x Var. D-3(1) Dual Faced sign - mast arm.
1	EA	20 ft. steel luminaire arm.
1	EA	250 W HPS luminaire.
1	EA	Standard S.H.A. traffic signal NEMA 6 base mounted cabinet, and ICB flasher control unit. <small>[Note: Controller and cabinet shall be purchased from Econolite and delivered to the S.H.A. signal shop for wiring and testing. Contact Mr. Ed Rodenhizer (410) 787-7652.]</small>
4	EA	12 in., one-way, one section (R) LED traffic signal head - mast arm
4	EA	12 in., one-way, one section (Y) LED traffic signal head - mast arm
2	CY	Test pit excavation.
2	EA	Handhole.
60	LF	1-conductor electrical cable (No. 4 A.W.G.) (3 pieces).
60	LF	2-conductor electrical tray cable (No. 12 A.W.G.).
120	LF	5-conductor electrical cable (No. 14 A.W.G.).
500	LF	7-conductor electrical cable (No. 14 A.W.G.).
60	LF	Bare copper stranded ground wire (No. 6 A.W.G.).
20	LF	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
50	LF	4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
70	LF	4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
6.5	CY	Concrete foundation for traffic signal equipment.
5	EA	Ground rod 3/4 in. diameter x 10 ft. length.
1	EA	Electrical metered service pedestal (120/240 V, one phase, 3-wire, 200A system) for a type MD-SHA Typical 807.05-01 underground electrical service.

**PROPOSED SIGNALS**      **PROPOSED SIGNS**      **EXISTING SIGNS**      **FLASHING OPERATION**



Flashing Operation	1	2	3	4	5	6	7	8
	Y	Y	Y	Y	R	R	R	R
	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R

**CONSTRUCTION DETAILS**

- Install base mounted NEMA six cabinet/controller and necessary equipment (Note: one 2 in. & three 4 in. PVC conduit bends).
- Install metered service pedestal for underground electrical service per MD-SHA Typical 807.05-01.
- Install 27 ft. steel mast arm pole with a 70 ft. mast arm with vehicle signal heads, sign, 20 ft. luminaire arm, and 250W HPS luminaire (Note: one 4 in. PVC conduit bend).
- Install handhole.
- Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
- Install 3 in. conduit for an underground electrical service by BGE (TBD).
- Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
- Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
- 2 in. conduit stub for Verizon Service.
- Pavement marking installed by others (See separate Marking Plan for details).

**NOTES**

- Geometrics shall be confirmed prior to the installation of signal equipment. All traffic signal foundations shall be installed at final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections to meet clearances as specified in MD 816.03, MD 818.01, MD 818.02, MD 818.04. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
- Proposed pavement markings are to be installed as per the Signing/Marking Plans as part of the Developer's project. All other pavement markings are to be considered as existing.
- All underground and overhead utilities shown on these plans are schematic and are not to be considered complete. The Contractor shall be responsible for notifying all utility companies 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 equipment will occur, the Contractor shall notify the appropriate Project Engineer immediately.

**CONTACT LIST**

The contact persons for District #7 are as follows:

Mr. John Concannon  
 Assistant District Engineer - Traffic  
 301-624-8140

Ms. Andrea Abend  
 District Utility Engineer  
 301-624-8115

Mr. Dave Coyne  
 Assistant District Engineer - Maintenance  
 301-624-8105

Mr. Richard L. Daff  
 Chief, Traffic Operations Division  
 410-787-7630

Mr. Bob Snyder  
 Traffic Operation Division  
 410-787-7631

Mr. Ed Rodenhizer  
 Signal Operations Division  
 410-787-7652

The Power Company Representative is:  
 BGE

GEOMETRIC LEGEND	
— — — — —	EXISTING GEOMETRICS
— — — — —	PROPOSED GEOMETRICS

UTILITY LEGEND	
— G — G —	GAS MAIN
— W — W —	WATER MAIN
— S — S —	SEWER MAIN
— E — E —	ELECTRIC CABLES
— D — D —	STORM DRAIN
— A — A —	AERIAL CABLES
— T — T —	TELEPHONE CABLES

**The Traffic Group, Inc.**  
 Suite H  
 9900 Franklin Square Drive  
 Baltimore, Maryland 21236  
 410-931-6600  
 1-800-583-8411  
 Fax 410-931-6601

**NOTE**  
 These plans are approved for construction for a period of one (1) year from the date of approval. Should construction not begin within this time frame these plans shall be null and void without a re-review from the Traffic Engineering design Division.

APPROVALS	REVISIONS
<i>John W. Balle</i> 10/31/07 TEAM LEADER	
<i>Ed Rodenhizer</i> 10/31/07 ASST. DIV. CHIEF	
<i>Bob Snyder</i> 11/1/07 DIVISION CHIEF	
<i>John W. Balle</i> 1/2/08 OFFICE DIRECTOR	

**SHA** STATE OF MARYLAND  
 DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY ADMINISTRATION  
 OFFICE OF TRAFFIC & SAFETY  
 TRAFFIC ENGINEERING DESIGN DIVISION

MD 32 at Stoner Ave

**INTERSECTION CONTROL BEACON (ICB) PLAN**  
 SCALE 1" = 20' DATE Oct. 1, 2007 CONTRACT NO. BW996M82

DESIGNED BY J. Dirndorfer COUNTY Carroll  
 DRAWN BY J. Dirndorfer LOGMILE 06003216.49  
 CHECKED BY T.I.M.S. NO. I-627  
 F.A.P. NO. N/A TOD NO.

DRAWING NO. TS - 4620 SHEET NO. 1 OF 1

DRILL HOLES

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BORDER REV. DATE: June 1, 2004

1:2008.0808-0023-Draft-TEDD-080808-01