PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a new intersection control beacon at the intersection of US 40 and Red Toad Rd. in Cecil County, Maryland. US 40 is considered to run in an east/west direction.

II. INTERSECTION OPERATION

The intersection is to operate in 2-circuit flashing mode. There will be flashing yellow indications for US 40 and flashing red indications Red Toad Rd.

EQUIPMENT LIST

A. Equipment to be furnished by the MD-SHA.

Item No.	Quantity	Units	Description
9068	1	EA	2 circuit flasher.
9077	1	EA	Cabinet bottom plate, size 5.
9080	1	EA	Cabinet intersection monitor, size 5.
9089	36	SF	Flat sheet aluminum sign - yellow, orange, or silver.
9090	32	SF	Flat sheet aluminum sign - blue or green.
9097	4	EA	Sign hardware - 24 in. form tube.
9104	2	EA	Sign hardware - under mast arm astro bracket 84 in. cable.

B. Equipment to be furnished and/or installed by the Contractor.
All equipment shall have catalog cuts submitted for approval prior to installation.

Item No.	Quantity	Units	Description
1001	2	EA	Maintenance of traffic.
2001	2	CY	Test pit excavation.
2004	14	CY	Class 2 excavation.
6003	50	LF	Traffic barrier W-beam.
6005	1	EA	Type A traffic barrier W-beam end treatment.
6007	1	EA	Type 1traffic barrier W-beam trail end section
6006	8	EA	Traffic brarrier W-beam post normal 6 ft. length.
8001	6	CY	Concrete for signal foundation.
8006	2	EA	Cut, clean, galvanize, and cap traffic signal structure.
8019	1	EA	Install controller and cabinet - pole mount.
8027	5	LF	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
8030	5	LF	4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
8032	185	LF	4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
8033	4	EA	Handhole.
8034	2	EA	Ground rod -3/4in. diameter x 10 ft. length.
8044	120	LF	5-conductor electrical cable (No. 14 A.W.G.).
8045	1010	LF	7-conductor electrical cable (No. 14 A.W.G.).
8046	305	LF	2-conductor electrical cable (No. 12 A.W.G.) Type in TC in.
8047	60	LF	1-conductor (No. 8 A.W.G.) electrical cable - THHN/THWN.
8048	295	LF	Bare copper stranded ground wire (No. 6 A.W.G.).
8049	75	LF	1-conductor (No. 4 A.W.G.) electrical cable - THHN/THWN.
8053	56	SF	Install overhead mounted sign.
8055	2	EA	250 watt HPS luminaire with photocell.
8056	2	EA	15 ft. lighting bracket arm for traffic signal structure.
8060	1	EA	Remove/dispose of existing material/equipment per assignment.
8066	1	EA	Control and distribution equipment (120/240 V, one phase, three wire system) for a type P-12 overhead electrical service.
8080	2	EA	Mast arm pole and twin 50 ft./50 ft. mast arms.
8084	10	EA	12 in. vehicular traffic signal head.
Neg.	1	EA	Relocate existing ground mounted sign.
Neg.	2	EA	Retaining wall.

CONTACT LIST

The contact persons for District #2 are as follows:

Mr. Richard Lindsay
District Engineer
410-776-3061

Mr. Robert Kiel
Assistant District Engineer - Traffic
410-776-3061

Mr. Barry Clothier
Assistant District Engineer - Utility
410-776-3061

Mr. Terry Wright
Assistant District Engineer - Maintenance
410-776-3061

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

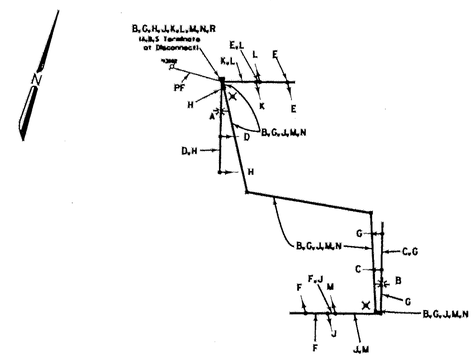
The Power Company Representative is:
Conectiv Power
Mr. Eugene Mesiak
412 Commerce St.
PO BOX 1739
Centerville, MD 21617

NOTE:
The Roads Division of the Cecil County Department of Public Works should be notified at least 48 hours prior to intiation of construction. Mr. Dan Webber can be reached at (410) 996-6270.

Phase Chart

	1	2	3	4	5	6	7	8	9	10
	Y	Y	Y	Y	R	R	R	R	R	R
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

Wiring Diagram



A, B } 2-Conductor Tray Cable (No. 12 A.W.G.)

C, D, E, F } 5-Conductor Electrical Cable (No. 14 A.W.G.)

G, H, J, K, L, M } 7-Conductor Electrical Cable (No. 14 A.W.G.)

N — Bare Copper Ground Wire (No. 6 A.W.G.)

R — 1-conductor (No. 4 A.W.G.) THHN/THWN for Traffic Signal Electrical Service

S — 1-conductor (No. 8 A.W.G.) THHN/THWN for Traffic Signal Electrical Service

PF — Proposed Overhead Electrical Service By Conectiv

X — Proposed Grounding Rod

Revision "__"

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MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(General Information)

US 40 at Red Toad Road

DATE: June 22, 1999 — LOG MILE # 07004007.35

DRAWN BY: J.E.S.	F.A.P. NO. N/A	PLAN SHEET NO.: 3920-GI	SHEET NO. 2 of 2
CHK. BY:	S.H.A. NO. XX1005185		
SCALE: N/A	COUNTY: CECIL		

AREA 6 NOTES