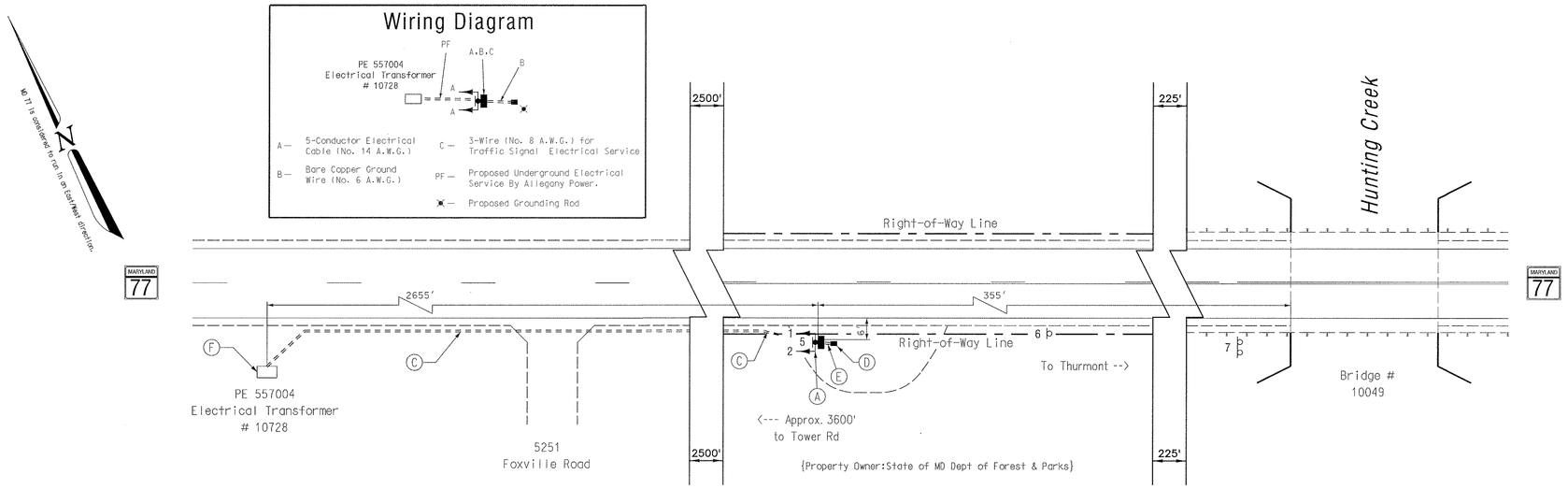
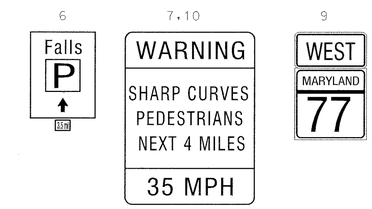


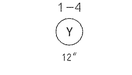
EXISTING SIGNS



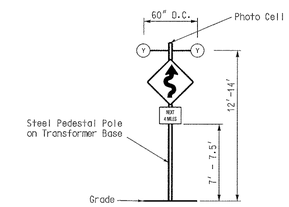
PROPOSED SIGNS

W 1-5 (R)
36" x 36"
W7-3A
24" x 18"

PROPOSED SIGNALS



PEDESTAL POLE DETAIL



PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of two (2) Hazard Identification Beacons (HIB) along MD 77 East of Tower Road and East of Pryor Road in Frederick County, Maryland. MD 77 is considered to run in an east/west direction.

II. OPERATION

The HIB's are to to be equipped with signs warning motorists of winding road (W1-5) conditions for the next 4 miles. A two-circuit flasher housed in a pole mounted flasher cabinet, intersection monitor, phone drop, and underground electrical service are to be installed at both locations.

EQUIPMENT LIST

A. S.H.A. equipment to be installed by the Contractor.

Item No.	Quantity	Units	Description
9068	2	EA	2 circuit flasher.
9076	2	EA	Cabinet "G" type pole mount.
9089	24	SF	Flat sheet aluminum sign - pole mount. [2 each 36 in. x 36 in. W 1-5(R)] [2 each 24 in. x 18 in. W 7-3A]
Neg.	2	EA	Intersection Monitor

B. Equipment to be furnished and/or installed by the Contractor. All equipment in this list 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.
8001	1.4	CY	Concrete for signal foundation.
8003	2	EA	Breakaway pedestal pole (any size).
8019	2	EA	Install controller and cabinet - pole mount.
8024	20	LF	2 in. [Schedule 80] PVC electrical conduit- trenched.
8027	2850	LF	3 in. [Schedule 80] PVC electrical conduit- trenched.
8030	2700	LF	4 in. [Schedule 80] PVC electrical conduit- trenched.
8033	2	EA	Electrical handhole.
8034	2	EA	Ground rod (3/4 in. x 10 ft. length).
8035	4	EA	Connector kit - Type 1.
8044	75	LF	Electrical cable - 5-conductor (No. 14 AWG).
8047	20	LF	Electrical cable - 1 conductor No. 8 AWG - THHN/THWN.
8048	40	LF	Stranded bare copper ground wire (No. 6 AWG).
8052	24	SF	Install ground mounted sign.
8066	2	EA	Control and distribution equipment (120/240, 1 phase, 3 wire).
8069	2	EA	Photocell/dimmer.
8084	4	EA	12 in. vehicular black faced traffic signal head section.
Neg.	1	EA	Relocated existing ground mounted sign and sign support.

CONTACT LIST

The contact persons for District #7 are as follows:

Mr. Robert Fisher
District Engineer
301-624-8101

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

Mr. Jim Buckalew
Acting Assistant District Engineer - Utility
301-729-8436

Mr. Leon Kerns
Assistant District Engineer - Maintenance
301-624-8106

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

The Power Company Representatives are:

For Allegany Power Company
Chuck Barger
10802 Bower Avenue
Williamsport, Maryland 21795
301-582-5266

For Thurmont Municipal Light Company
Joe Fraley
10 Frederick Road
Thurmount, Maryland 21788
301-271-7313

GEOMETRIC LEGEND

EXISTING GEOMETRICS
PROPOSED GEOMETRICS

UTILITY LEGEND

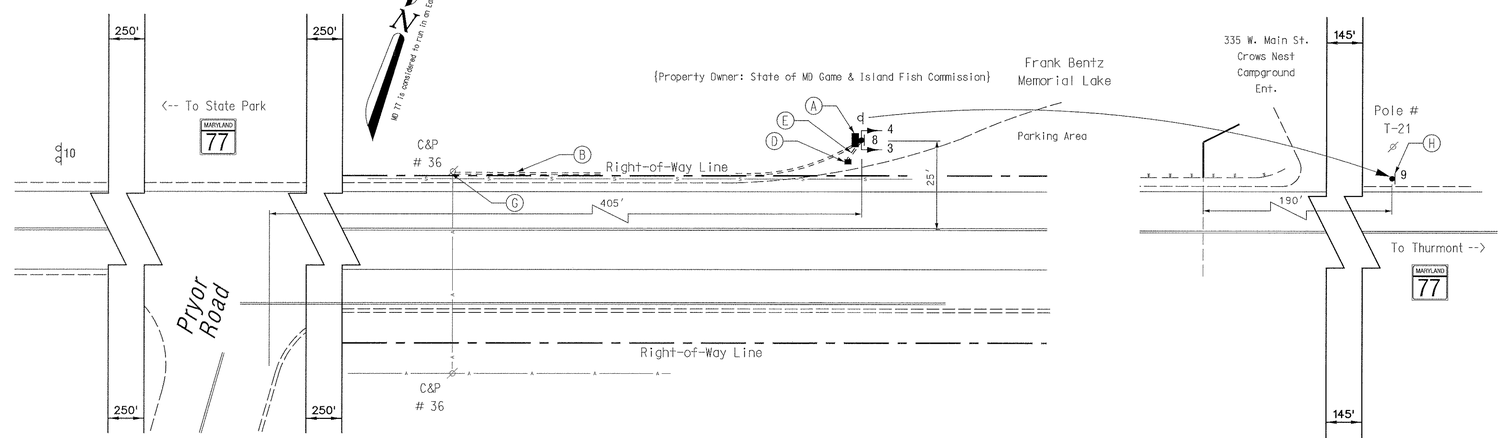
GAS MAIN
WATER MAIN
SEWER MAIN
ELECTRIC CABLES
STORM DRAIN
AERIAL CABLES
TELEPHONE CABLES

NOTES

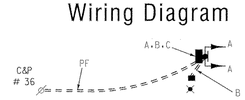
1. Geometrics shall be confirmed prior to the installation of signal equipment. All signal equipment to be installed at final grade.
2. All underground and overhead utilities shown on these plans are schematic and are not to be considered complete. The Contractor shall be responsible for notifying all 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.

CONSTRUCTION DETAILS

A. Install 20 ft. steel pedestal pole on break away base with signal heads, signs, cabinet, and necessary equipment for an underground electrical (MD-SHA Type T-1) service. (Note: ~~Two~~ Three 2 in. PVC conduit bends).
B. Install 3 in. [for electrical service] polyvinyl chloride [Schedule 80] electrical conduit - trenched.
C. Install 3 in. [for electrical service] & 4 in. [for phone service] polyvinyl chloride [Schedule 80] electrical conduits - trenched side by side. Turn-up conduit with 90° bend approx. every 885 ft. Separate each conduit run turn-up by 4 ft.
D. Install handhole.
E. Install 2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
F. Proposed underground electrical service by Allegany Power.
G. Proposed underground electrical service by Thurmont Municipal Light Company.
H. Relocate existing ground mounted sign.



Wiring Diagram



A — 5-Conductor Electrical Cable (No. 14 A.W.G.)
B — Bare Copper Ground Wire (No. 6 A.W.G.)
C — 3-Wire (No. 8 A.W.G.) for Traffic Signal Electrical Service
PF — Proposed Underground Electrical Service By Thurmont Municipal Light Company
Proposed Grounding Rod

The Traffic Group
The Traffic Group, Inc.
410-931-6600
Fax 410-931-6601

REVISIONS

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION 5/23/00
for Dimitrios A. Zafiris
ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
5/23/00
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
5/30
DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(Hazard Identification Beacon Plan)
MD 77 East of Tower Rd and East of Pryor Rd

DRAWN BY: J. Dirndorfer	F.A.P. NO. N/A		TS NO. 4002	SHEET NO.
CHECKED BY: RTB	S.H.A. NO. FR 508A561/658			
SCALE: 1" = 20'	COUNTY: Frederick		T.I.M.S. NO. D-774	1 OF 1
DATE: May 15, 2000	LOG MILE: 10077000.70 & 10077006.43			

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