PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the traffic control signal at the intersection of MD 85 (Buckeystown Pike) and English Muffin Way in Frederick County, Maryland. MD 85 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection operation is to remain unchanged.

The existing cabinet/controller and phasing are to be utilized.

Video camera detection shall be added to the intersection.

CONTACT LIST

The contact persons for District #7 are as follows:

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

Mr. Jim Buckalew
Assistant District Engineer - Utility
301-624-8115

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

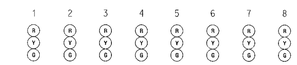
Mr. Richard L. Daff
Chief, Traffic Operations Division
410-787-7630

EQUIPMENT LIST

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.

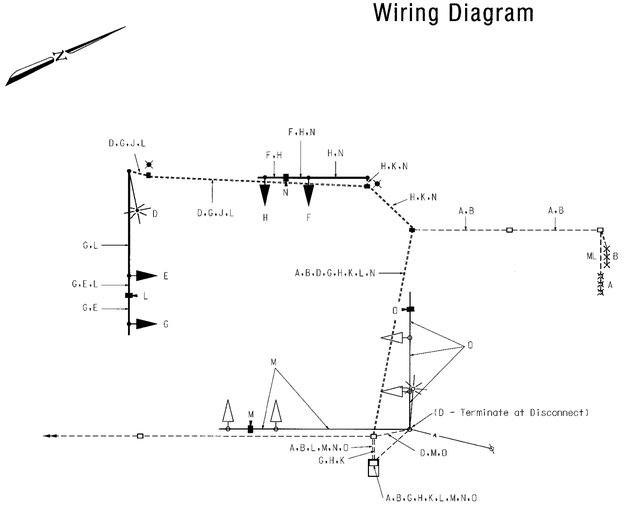
Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
2	CY	205	Test pit excavation.
1	EA	818	27 ft. steel mast arm pole with a 60 ft. mast arm.
1	EA	818	27 ft. steel mast arm pole with a 70 ft. mast arm.
4	EA	814	12 in., one-way, three section (R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
1	EA	---	Video detection Retro-fit kit.
4	EA	---	Video detection camera and cable (1-500 ft.; 1-350 ft.; 2-150 ft.)
1	EA	806	20 ft. luminaire arm.
1	EA	806	250 W H.P.S. lamp and luminarie.
3	EA	811	Handhole.
15	LF	815	Sawcut for signal loop detector.
1	EA	---	Micro-loop probe (set of 3) with 500 ft. lead-in cable.
360	LF	810	2-conductor electrical tray cable (No. 12 A.W.G.).
60	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
700	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
300	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
5	LF	805	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
60	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
230	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
10	CY	801	Concrete foundation for traffic signal equipment.
2	EA	804	Ground rod - 3/4 in. diameter x 10 ft. length.
42	LF	556	24 in. wide HAPPTPM - white for stop line.
4	EA	822	Relocate existing signs.
Lump Sum	LS	---	Remove and salvage existing equipment.
Lump Sum	LS	---	As-built for S.H.A. [on CADD].

Phase Chart



Phase 2 & 6	G	G	G	G	R	R	R	R	←
2 & 6 Change	Y	Y	Y	Y	R	R	R	R	→
Phase 4 & 8	R	R	R	R	G	G	G	G	↓ ↑
4 & 8 Change	R	R	R	R	Y	Y	Y	Y	
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	

Wiring Diagram



A — Existing Micro-loop Dectector Lead-in Cable

B — Micro-loop Detector Lead-in Cable

D — 2-Conductor Tray Cable (No. 12 A.W.G.)

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

G, H — 7-Conductor Electrical Cable (No. 14 A.W.G.)

J, K — Bare Copper Ground Wire (No. 6 A.W.G.)

L, M, N, O — Video Detector Cable

ML — Micro-loop Detector

✱ — Proposed Grounding Rod

Revision "A"

The Traffic Group
The Traffic Group, Inc.
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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(General Information Plan)

MD 85 (Buckeystown Pike) at English Muffin Way

DRAWN BY: F. Brownley	F.A.P. NO. N/A	TS NO. 3664A-G1	SHEET NO.
CHECKED BY:	S.H.A. NO. BW996M82		
SCALE: N/A	COUNTY: Frederick	T.I.M.S. NO. F-151	2 OF 2
DATE: August 2, 2004	LOG MILE: -		

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