PROJECT DESCRIPTION

I. GENERAL

This portion of the project involves the reconstruction of the existing pedestrian crossing signal at the intersection of US 1 and Gallatin Street in Prince George's County, Maryland.
US 1 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

Intersection operation is to remain unchanged.

EQUIPMENT LIST

A. Equipment to be furnished by S.H.A.

Item Number	Quantity	Units	Description
9085	1	EA	Cabinet w/telemetry (system cab), size 6.
9087	1	EA	Controller ASC II w/ telemetry.

B. Equipment to be furnished and/or installed by the Contractor.

Item Number	Quantity	Units	Description
1001	1	EA	Maintenance of traffic.
2001	3	CY	Class 2 excavation.
2002	.3	CY	Test pit excavation
6004	32	SF	4 in. concrete sidewalk.
8003	2	EA	Breakaway pedestal pole.
8006	1	EA	Cut, clean galvanize and cap traffic signal structure.
8010	8	EA	12 in. ped signal head section.
8011	12	EA	12 in. vehicle signal head section.
8020	1	EA	Control and distribution equipment for signal.
8023	1	EA	mast arm pole and 60 foot mast arm
8030	2	EA	Ped pole (any size).
8032	2	EA	Pushbutton and sign
8047	5	EA	Remove and dispose of foundation 12" below grade.
8048	1	EA	Remove and dispose material and equipment per assignment.
8051	3	EA	3 in. schedule 80 PVC conduit -trenched.
8059	6.05	LF	Concrete for signal foundation.
8062	105	CY	No. 6 AWG stranded bare copper ground wire.
8068	355	LF	3 inch schedule 80 rigid PVC conduit-slotted.
8070	5	LF	1 inch liquid tight flexible non-metallic conduit-sleeve.
8072	60	LF	1-conductor (No. 4 AWG-THHN/THWN.
8074	4	LF	Electrical handhole.
8078	370	EA	12-pair communication cable, jelly filled (underground).
8082	3	LF	Ground rod (3/4 in. x 10 ft length).
8084	375	EA	2-conductor electrical cable (No. 14 AWG)
8085	375	LF	3-conductor electrical cable (No. 14 AWG)
8086	50	LF	5-conductor electrical cable (No. 14 AWG)
8087	135	LF	7-conductor electrical cable (No. 14 AWG)
8089	300	LF	Loop detector wire encased in flexible tubing (No. 14 AWG).
8090	78	LF	Saw cut for signal (loop detector).
8093	10	LF	2 inch schedule 80 PVC electrical conduit-trenched.
8094	1	EA	Install controller and cabinet - pole mount

EQUIPMENT LIST cont.

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

CONTACT LIST

The contact persons for District #3 are as follows:

Mr. Charlie Watkins
District Engineer
301-513-7313

Mr. Majib Shakib
Assistant District Engineer - Traffic
301-513-7358

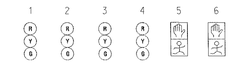
Mr. Augie Rebish
Assistant District Engineer - Utility
301-513-7350

Mr. Raleigh Medley
Assistant District Engineer - Maintenance
301-513-7304

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

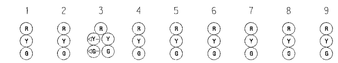
The Power Company Representative is:
Potomac Electric Power Company
Mr. Steven Custer
4016 Powder Mill Road
Calverton, MD 20705
301-931-2882

Phase Chart
Gallatin Street



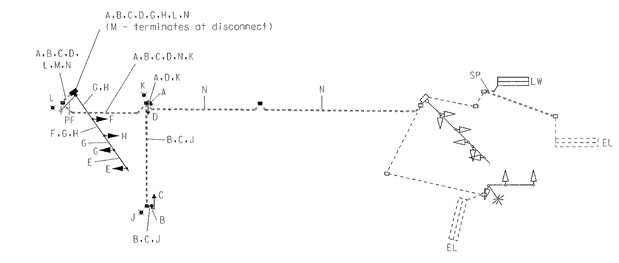
Phase 2 & 6	G	G	G	G	DW	DW	←
2 & 6 Change	Y	Y	Y	Y	DW	DW	→
Phase Alt 8	R	R	R	R	WK	WK	↕
Ped Clearance	R	R	R	R	FL/DW	FL/DW	↕
Alt 8 Change	Y	Y	Y	Y	DW	DW	↕
Flashing Operation	FL/Y	FL/R	FL/R	FL/R	DARK	DARK	← →

Phase Chart
Alternate US1/Hamilton Street



Phase 2 & 5	R	R	G G	G	R	R	R	R	R	←
5 Change	R	R	G Y	G	R	R	R	R	R	↙
Phase 2 & 6	G	G	G	G	R	R	R	R	R	←
2 & 6 Change	Y	Y	Y	Y	R	R	R	R	R	→
Phase 3	R	R	R	R	R	R	R	G	G	↓
3 Change	R	R	R	R	R	R	R	Y	Y	↓
Phase 4	R	R	R	R	G	G	G	R	R	↑
4 Change	R	R	R	R	Y	Y	Y	R	R	↑
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	↕ ↔

Wiring Diagram



A, B — 2-Conductor Electrical Cable (No. 14 A.W.G.)

C, D — 3-Conductor Electrical Cable (No. 14 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, L — Bare Copper Ground Wire (No. 6 A.W.G.)

M — 3-pc (No. 4 A.W.G.) for Traffic Signal Electrical Service

N — 12-Pair Voice Grade Telemetry Interconnect Cable (No. 19 A.W.G.) (Gallatin St. - US 1/Hamilton St. run)

LW — Loop Detector Wire (No. 14 A.W.G.) in Flexible Tubing

SP — Splice Loop Wire To Existing Aluminum Shielded Cable

PF — Proposed Overhead Electrical Service By PEPCO

EL — Existing Loop Wire

✱ — Proposed Grounding Rod

Revision " -- "

The Traffic Group
The Traffic Group, Inc.
410-931-6600
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APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

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

US 1 at Gallatin Street and Hamilton Street

DRAWN BY: F. Brownley	F.A.P. NO. U 902-1(23)	TS NO. 579D	SHEET NO.
CHECKED BY: J. Dirndorfer	S.H.A. NO. PE 5791.54 / PE 5791.04		
SCALE: N/A	COUNTY: Prince George's	T.I.M.S. NO. D-969	3 OF 4
DATE: September 13, 2001	LOG MILE:		

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