PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the existing traffic control signal at the intersection of MD 214 (Central Ave) at MD 193 (Enterprise Road) in Prince George's County, Maryland.
The modification of the traffic signal consist of adding and replacing eastbound left turn vehicle loop detectors and adding and replacing signal heads also for eastbound MD 214.
MD 214 is considered to run in a east/west direction.

II. INTERSECTION OPERATION

The intersection shall continue to operate in a NEMA six (6) phase, full-traffic-actuated mode.
The intersection will be modified to include an exclusive double left turn phase for eastbound MD 214. The existing cabinet and controller will be utilized.

EQUIPMENT LIST

A. S.H.A. furnished equipment material.

None.

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.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
1	CY	205	Test pit excavation.
3	EA	814	12 in., one-way, three section (RA,YA,GA) adjustable black faced traffic signal head L.E.D. with span wire mounting hardware and tunnel visors.
2	EA	814	12 in., one-way, three section (R,Y,G) adjustable black faced traffic signal head L.E.D. with span wire mounting hardware and tunnel visors.
8	EA	811	Handhole.
4	EA	810	Loop Detector splice Kit.
300	LF	815	Saw cut for signal loop detector.
1550	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
3120	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
30	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
520	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
25	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
20	LF	805	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
800	LF	805	3 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
85	LF	805	3 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
1	EA	804	Ground rod - 5/8 in. diameter x 10 ft. length.
96	LF	556	24 in. wide HAPPTPM - white for stop line.
1	EA	813	Relocate existing sign.
1	EA	813	30 in. x 36 in. R3-5(L) with span wire mounting hardware.
3	EA	---	Non-invasive micro-loop probe (set of 3) with 750 ft. lead-in cable.
140	SF	---	Remove and replace Concrete in Island.
Lump Sum	LS	---	Remove and Salvage existing equipment.
Lump Sum	LS	---	Disconnect, pullback and reroute interconnect cable (Approx. 1040 ft.).
Lump Sum	LS	---	As-built for S.H.A. (on CADD).

CONTACT LIST

The contact persons for District #3 are as follows:

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

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
301-513-7304

Mr. Richard L. Daff
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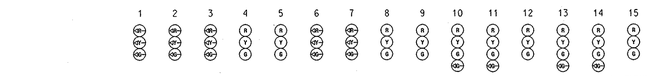
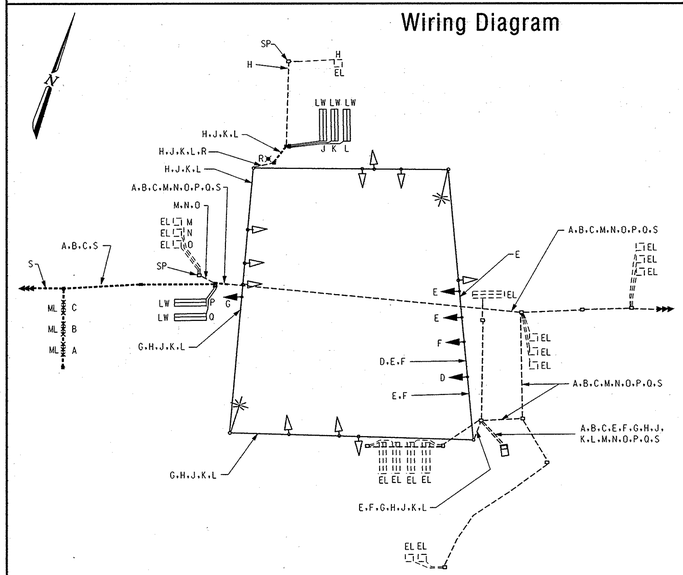
410-787-7630

Phase Chart



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Phase 1 & 5	G	G	G	R	R	G	G	R	R	R	R	R	R	R	R	
1 & 5 Change to Phase 1 & 6 or Phase 2 & 5 or Phase 2 & 6																
Phase 1 & 6	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	
1 Change	Y	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R	
Phase 2 & 5	R	R	R	R	R	G	G	G	G	R	R	R	R	R	R	
5 Change	R	R	R	R	R	Y	Y	G	G	R	R	R	R	R	R	
Phase 2 & 6	R	R	R	G	G	R	R	G	G	R	R	R	R	R	R	
2 & 6 Change	R	R	R	Y	Y	R	R	Y	Y	R	R	R	R	R	R	
Phase 3	R	R	R	R	R	R	R	R	R	G G	G G	G	R	R	R	
3 Change	R	R	R	R	R	R	R	R	R	Y	Y	Y	R	R	R	
Phase 4	R	R	R	R	R	R	R	R	R	R	R	R	G G	G G	G	
4 Change	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	
Flashing Operation	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	

Wiring Diagram



A, B, C — Micro-loop Detector Lead-in Cable

D — 5-Conductor Electrical Cable (No. 14 A.W.G.)

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

H, J, K, L, M, N, O, P, O — 2-Conductor Aluminum Shielded Electrical Cable (No. 14 A.W.G.)

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

S — Reinstalled Interconnect

✱ — Proposed Grounding Rod

ML — Micro-loop Probe Detector (Non-invasive)

LW — Loop Wire

EL — Existing Loop Detector

SP — Splice New Aluminum Shielded to Existing Loop Wire.

Revision "H"

The Traffic Group
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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(General Information Plan)
MD 214 (Central Ave) at MD 193 (Enterprise Rd)

DRAWN BY: B. Kilian	F.A.P. NO. N/A	TS NO. 1297H-GI	SHEET NO. 4 OF 4
CHECKED BY:	S.H.A. NO. BW996M82		
SCALE: N/A	COUNTY: Prince George's	T.I.M.S. NO. H445	
DATE: June 9, 2006	LOG MILE: 16019317.31		

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