

PROJECT DESCRIPTION

I. General

This portion of the project involves the installation of a traffic control signal with intersection lighting and traffic signal interconnect at the intersection of MD 201 (Kenilworth Avenue) at Ivy Lane in Prince George's County, Maryland. MD 201 is assumed to run in a north / south direction.

II. Intersection Operation

This intersection shall operate in a NEMA two (2) phase fully actuated mode with the northbound MD 201 left turns and southbound MD 201 through traffic operating in exclusive phases. The northbound MD 201 through traffic and eastbound Ivy Lane will not be effected by the signal.

An eight phase Fully-actuated controller with one (1) four channel rack mounted loop detector amplifiers house in a base mounted cabinet shall be installed at this intersection.

III. Special Notes

- Maintenance of traffic will be handled by the contractor utilizing the following standard plates for traffic control: 104.00 - 104.00-30, 104.32-02, 104.33-02, 104.39-02, 104.40-02, 104.41-02, 104.44-02, 104.45-02, 104.48-02, 104.49-02.
- The following are SHA District 3 Contact persons:

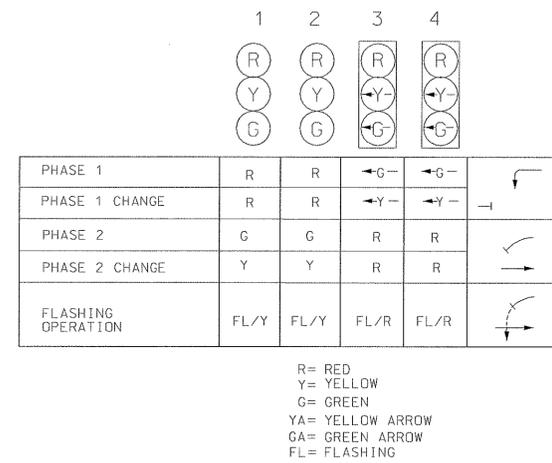
Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division (410) 787-7630	Mr. Charles Watkins District Engineer (301) 513-7311
Mr. Majib Shakib Asst. District Engineer - Traffic (301) 513-7358	Mr. Randy Brown Asst. District Engineer - Maintenance (301) 513-7304
Mr. Sonny Lauer District Engineer- Utility (301) 513-7350	
- The contractor shall be responsible for routing interconnect cables into the base of the controller cabinet and properly tag the cables. Maryland SHA forces shall be responsible for disconnecting and splicing interconnect cables.
- All vehicle loop detectors and slotted conduits shall be installed prior to the final roadway surface course.

EQUIPMENT LIST CONT.

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

Item No.	Quantity	Units	Specification Section	Description
	2	CY	205	Test Pit excavation
	90	LF	805	Furnish and install 24 in. white thermoplastic pavement marking tape
	5.5	CY	801	Furnish and install concrete for signal foundation.
	2	EA	804	Furnish and install ground rod - 3/4 in. diameter x 10 ft.
	20	LF	805	Furnish and install 4 in. schedule 80 rigid PVC conduit - Trenched.
	50	LF	805	Furnish and install 3 in. schedule 80 rigid PVC conduit - slotted.
	20	LF	805	Furnish and install 2 in. schedule 80 rigid PVC conduit - trenched.
	20	LF	805	Furnish and install 2 in. schedule 80 conduit riser.
	10	LF	805	Furnish and install 1 in. liquid tight flexible non-metallic conduit for detector wire sleeve.
	12	LF	805	Furnish and install 1 in. electrical conduit - galvanized sleeve
	1	EA	806	Furnish and install 250 Watt high pressure sodium lamp and luminaire with photo cell
	1	EA	807	Furnish and install control and distribution equipment.
	20	LF	810	Furnish and install No. 6 AWG standard bare copper ground wire.
	150	LF	810	Furnish and install electrical cable 1- conductor No. 4 AWG - THHN/THWN
	120	LF	810	Furnish and install electrical cable - 2 conductor (Aluminum shielded).
	50	LF	810	Furnish and install electrical cable - 5 conductor (No. 14 AWG).
	220	LF	810	Furnish and install electrical cable - 7 conductor (No. 14 AWG).
	850	LF	810	Furnish and install loop wire encased in flexible tubing (No. 14 AWG).
	70	LF	810	Furnish and install 2 - conductor - Tray cable (No. 12 AWG).
	2	EA	811	Furnish and install electrical handhole.
	25	SF	813	Install overhead sign for signals.
	4	EA	814	Install signal head - any type
	330	LF	815	Furnish and install saw cut for signal.
	1	EA	816	Install eight phase (fully actuated) controller and cabinet - base mount.
	1	EA	829	Furnish and install a 27 ft. steel pole with a single 70 ft mast arm (Note: Four - 2 in. x 90 in. anchor bolts).
	1	EA	818	Furnish and install 20 ft lighting arm on signal structure
	2	EA	815	Furnish and install microloop probe set with a 500 ft. Lead-in cable

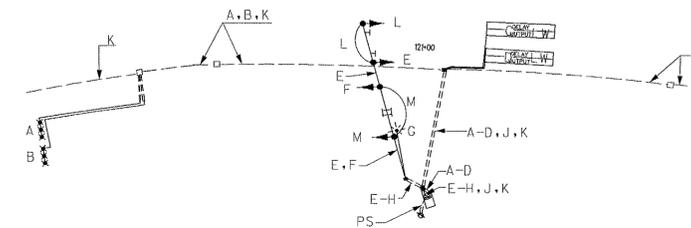
PHASING SEQUENCE CHART



EQUIPMENT LIST

A. Equipment to be supplied by the Administration

Item No.	Quantity	Units	Specification Section	Description
	2	EA	814	12 in. 1 way 3 section (R,Y,G) signal head - mast arm mount.
	2	EA	814	12 in. 1 way 3 section (R,YA,GA)(optically programmed) signal head - mast arm mount.
	1	EA	816	Eight-phase (fully actuated controller and cabinet) - base mount
	1	EA	816	Four channel loop detector amplifier (delayed output)
	36	SF	813	Sheet aluminum signs consisting of:
	2	EA		D3-2(48 in. x 16 in.) mast arm mount
	2	EA		R3-5 (30 in. X 36") Mast arm mount



WIRING KEY

- A,B= MICROLOOP PROBE LEAD-IN CABLE
- C,D= 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) ALUMINUM SHIELDED
- E,F= 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) FOR TRAFFIC SIGNAL HEAD
- G= 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) COPPER TYPE T/C
- H= 1 CONDUCTOR STRANDED BARE COPPER GROUND WIRE (NO 6 AWG)
- J,K= 12 PAIR, TWISTED, JELLY FILLED INTERCONNECT CABLE (NO. 19 AWG)
- L,M= 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) FOR TRAFFIC SIGNAL HEAD
- LW= LOOP WIRE
- PS= POWER SERVICE

REVISIONS	APPROVALS
	ASST. DIVISION CHIEF, TEDD
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 201 (KENILWORTH AVE) AND IVY LANE
GENERAL INFORMATION SHEET

LOGMILE NO: _____ DATE 12/15/97

DRAWN BY: J. ALLEN Jr.	F.A.P. NO. STP-5019(1)E	PLAN SHEET NO.:	SHEET NO.
CHECK BY: [Signature]	S.H.A. NO. PG 214 B21	TS-3754GI	OF _____
SCALE: _____	COUNTY PRINCE GEORGE'S		



FILENAME: PROJECTS\TRANSP\920637\00A\SHP\H201\DCN