F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD	SEE TITLE SHEET		

PROJECT DESCRIPTION

I. General

This portion of the project involves the partial reconstruction of an existing traffic control signal with intersection lighting and traffic signal interconnect at the intersection of MD 201 (Kenilworth Avenue) at the I-95 northbound off-ramp in Prince George's County, Maryland. MD 201 is assumed to run in a north / south direction.

II. Intersection Operation

No change to the existing intersection operation is required with the exception of the addition of a westbound pre-empt phase for the I-95 off ramp.

III. Special Notes

1.) 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.

2.) 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

3). 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.

4). All vehicle loop detectors and slotted conduits shall be installed prior to the final roadway surface course.

EQUIPMENT LIST

A. Equipment to be supplied by the Administration.

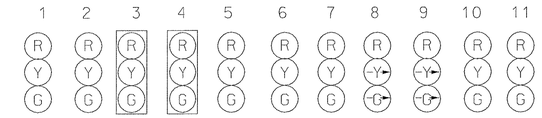
ITEM NO.	QUANTITY	UNITS	SPECIFICATION SECTION	DESCRIPTION
	5	EA	814	12 in. 1 way 3 section (R,Y,G) signal head-mast arm mount.
	2	EA	814	12 in. 1 way 3 section (R,YA,GA) signal head - mast arm.
	2	EA	816	Four channel delayed output detector amplifier - rack mounted.
	47	SF	813	Sheet aluminum signs .
	1	EA		D3-2 (mod) (var x 48 in.) pole mount.
	2	EA		R3-5(R)(30in. x 36 in.) mast arm mount.
	2	EA		R3-2(30in. x 30 in.) mast arm mount.

EQUIPMENT LIST CONT.

B. Equipment to be furnished and/or installed by contractor.

ITEM NO.	QUANTITY	UNITS	SPECIFICATION SECTION	DESCRIPTION
	1	LF	205	Test pit excavation.
	160	LF	555	24 in. white thermoplastic pavement marking tape
	3	CY	801	Furnish and install concrete for signal foundation.
	1	EA	804	Furnish and install ground rod - 3/4 in. diameter x 10 ft.
	1410	LF	805	Furnish and install 2 in. schedule 80 rigid conduit - trenched.
	20	LF	805	Furnish and install 3 in. schedule 80 rigid conduit-trenched.
	80	LF	805	Furnish and install 3 in.schedule 80 rigid PVC conduit-pushed/bored.
	60	LF	805	Furnish and install 1 in. liquid tight flexible non-metallic conduit for detector sleeve.
	45	LF	805	Furnish and install 1 in. electrical conduit-galvanized sleeve.
	2	EA	806	Furnish and install 250 Watt high pressure sodium lamp and luminaire.
	200	LF	810	Furnish and install No. 6 AWG stranded bare copper ground wire.
	2670	LF	810	Furnish and install electrical cable-2 conductor (Aluminum sheilded)
	80	LF	810	Furnish and install electrical cable-5 conductor (No. 14 AWG)
	2950	LF	810	Furnish and install loop wire encased in flexible tubing (No.14 AWG)
	950	LF	810	Furnish and install electrical cable -7 conductor (No. 14 AWG)
	550	LF	810	Furnish and install 2-conductor-Tray cable (NO. 12 AWG)
	7	EA	811	Furnish and install electrical handhole.
	60	SF	813	Install overhead sign.
	7	EA	814	Install signal head-any type
	1175	LF	815	Furnish and install saw cut for signal (loop detector)
	1	EA	SP/829	Furnish and install 27 ft. steel pole with twin 50 and 60 ft. mast arms (Note: Four-2 in. x 90 in. anchor bolts.)
	2	EA	818	Furnish and install 20 ft. lighting arm on signal structure.
		LS	xxx	Removal and disposal of existing materials.

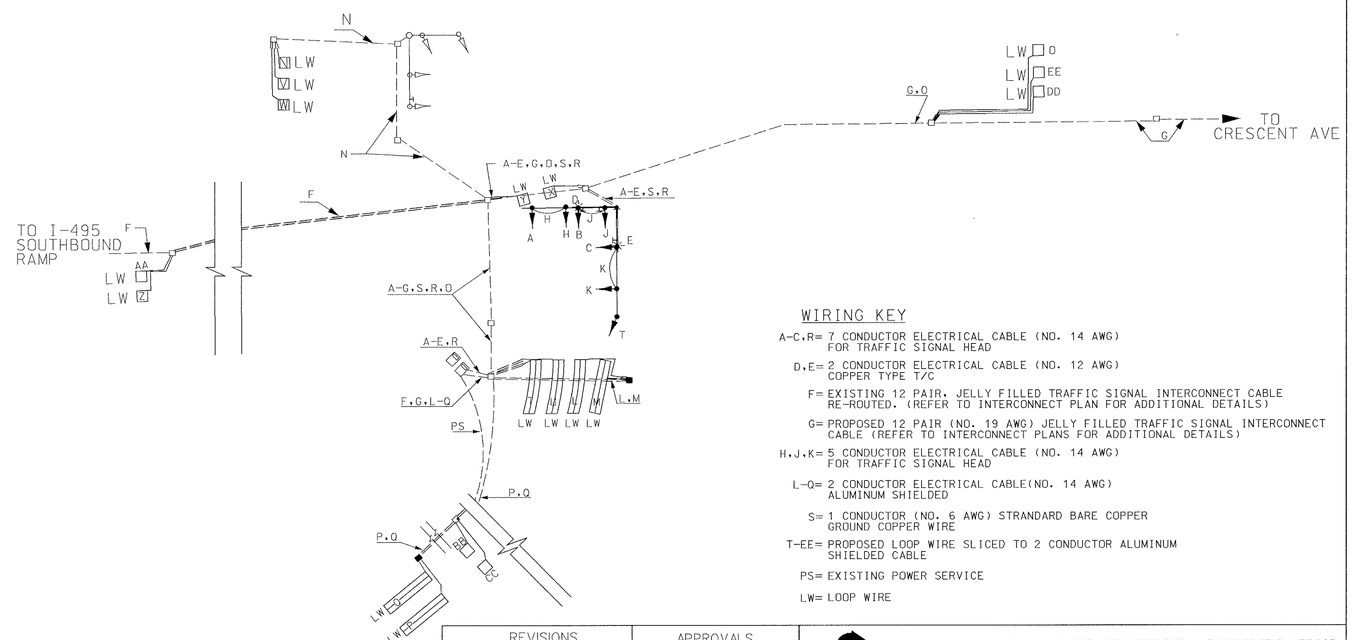
PHASING SEQUENCE CHART



	1	2	3	4	5	6	7	8	9	10	11
PHASE 2 & 6	G	G	G	G	R	R	R	R	R	R	R
PHASE 2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	R
PHASE 4	R	R	R	R	G	G	G	-G→	-G→	G	G
PHASE 4 CHANGE	R	R	R	R	Y	Y	Y	-Y→	-Y→	Y	Y
PRE EMPT 1	R	R	R	R	G	G	G	-G→	-G→	G	G
PRE EMPT 1 CLEAR	R	R	R	R	Y	Y	Y	-Y→	-Y→	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R→	FL/R→	FL/R	FL/R	FL/R

R= RED
Y= YELLOW
G= GREEN
YA= YELLOW ARROW
GA= GREEN ARROW
FL= FLASHING

WIRING DIAGRAM



WIRING KEY

A-C,R= 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) FOR TRAFFIC SIGNAL HEAD

D,E= 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) COPPER TYPE T/C

F= EXISTING 12 PAIR, JELLY FILLED TRAFFIC SIGNAL INTERCONNECT CABLE RE-ROUTED. (REFER TO INTERCONNECT PLAN FOR ADDITIONAL DETAILS)

G= PROPOSED 12 PAIR (NO. 19 AWG) JELLY FILLED TRAFFIC SIGNAL INTERCONNECT CABLE (REFER TO INTERCONNECT PLANS FOR ADDITIONAL DETAILS)

H,J,K= 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) FOR TRAFFIC SIGNAL HEAD

L-Q= 2 CONDUCTOR ELECTRICAL CABLE(NO. 14 AWG) ALUMINUM SHIELDED

S= 1 CONDUCTOR (NO. 6 AWG) STRANDARD BARE COPPER GROUND COPPER WIRE

T-EE= PROPOSED LOOP WIRE SLICED TO 2 CONDUCTOR ALUMINUM SHIELDED CABLE

PS= EXISTING POWER SERVICE

LW= LOOP WIRE

REVISIONS

APPROVALS

12/1/97
ASST. DIVISION CHIEF, TEDD

ASST. DISTRICT ENGINEER, TRAFFIC
12/9/97

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
12/10/97

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

CONSULTING ENGINEERS
COLUMBIA, MARYLAND

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 201 (KENILWORTH AVE) At I-95 NB OFF RAMP
GENERAL INFORMATION SHEET

LOGMILE #:1602107.37 DATE 1/1/94

DRAWN BY: R CICCHINI	F.A.P. NO.		PLAN SHEET NO.:
CHECK BY:	S.H.A. NO.	P-722-501-385	SHEET NO.
SCALE: NTS	COUNTY	PRINCE GEORGE'S	GI-TS1786B

____ OF ____

FILENAME=P:\PROJECTS\TRANSP\92GB37\DGN\SHEET\GI-TS1786B.DGN