

PROJECT DESCRIPTION

EQUIPMENT LIST

EQUIPMENT LIST (CONT.)

I. General

This project involves the reconstruction of an existing traffic control signal with intersection street lighting and traffic signal interconnect in conjunction with geometric improvements at the intersection of MD 5 (Branch Ave) and Curtis Drive in Prince George's County, Maryland. MD 5 is assumed to run in a north / south direction.

II. Intersection Operation

This intersection shall operate in a NEMA six (6) phase semi-actuated mode with the northbound and southbound left turns operating in an exclusive/permitted phase. Eastbound/westbound Curtis Drive shall operate concurrently.

An eight phase fully-actuated controller with a system package and four (4) four channel rack mounted loop detector amplifiers house in a base mounted cabinet shall be installed at this intersection.

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, 104.38-02, 104.39-02, 104.40-02, 104.41-02, 104.44-02, 104.45-02, 104.48-02.

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. Augustine Rebish District Engineer - Utility (301) 513-7350

3.) The contractor shall be responsible for routing all cables into the base of the controller cabinet and properly tag / label each cable. Maryland SHA forces shall be responsible for internal wiring.

A. Equipment to be supplied by the Administration

Item No.	Quantity	Units	Specification Section	Description
	6	EA	814	12 in. 1 way 3 section (R,Y,G) signal head - mast arm mount.
	2	EA	814	12 in. 1 way 5 section (R,Y,G,YA,GA) signal head - mast arm mount.
	2	EA	814	Combination 8 in. / 12 in. 1 way 5 section (8 in. R,Y,G / 12 in. YA,GA) signal head - pole arm
	2	EA	814	12 in. Two-way 2 section pedestrian signal head - pole mount
	1	EA	814	12 in. one-way 2 section pedestrian signal head pole mount
	2	EA	814	12 in. one-way 2 section pedestrian signal head - pedestal mount
	1	EA	816	Eight-phase (fully actuated) controller with system package and cabinet) - base mount
	3	EA	817	Pedestrian pushbutton and R10-3c sign
	2	EA	xxx	four channel rack mounted loop detector amplifier (delayed output)
	65	SF	813	Sheet aluminum signs consisting of:
	2	EA	R10-12, (36 in. x 42 in.) - mast arm mount.	
	4	EA	D3-2 (var x 16 in.) mast arm mount	
	3	EA	R10-3c (9 in. x 12 in.)	

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

Item No.	Quantity	Units	Specification Section	Description
	6	CY	205	Test pit excavation
	500	LF	555	12 in. white reflective thermoplastic pavement marking
	165	LF	555	24 in. white reflective thermoplastic pavement marking
	12	CY	801	Furnish and install concrete for signal foundation.
	6	EA	804	Furnish and install ground rod - 3/4 in. diameter x 10 ft.
	40	LF	805	Furnish and install 4 in. schedule 40 rigid PVC conduit - Trenched.
	150	LF	805	Furnish and install 3 in. schedule 80 rigid PVC conduit - Trenched.
	420	LF	805	Furnish and install 3 in. schedule 80 rigid PVC conduit - bored.

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

Item No.	Quantity	Units	Specification Section	Description
	480	LF	805	Furnish and install 2 in. schedule 80 rigid PVC conduit - Trenched.
	30	LF	805	Furnish and install 1 in. liquid tight flexible non-metallic conduit for detector wire sleeve.
	105	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 with photo cell
	1	EA	807	Furnish and install control and distribution equipment.
	600	LF	810	Furnish and install No. 6 AWG standard bare copper ground wire.
	180	LF	810	Furnish and install electrical cable 1- conductor No. 4 AWG - THHN/THWN
	2930	LF	810	Furnish and install electrical cable - 2 conductor (Aluminum shielded).
	100	LF	810	Furnish and install electrical cable - 5 conductor (No. 14 AWG).
	2293	LF	810	Furnish and install electrical cable - 7 conductor (No. 14 AWG).
	2410	LF	810	Furnish and install loop wire encased in flexible tubing (No. 14 AWG).
	460	LF	810	Furnish and install 2 - conductor - Tray cable (No. 12 AWG).
	7	EA	811	Furnish and install electrical handhole.
	65	SF	813	Install overhead sign for signals.
	15	EA	814	Install signal head - any type
	710	LF	815	Furnish and install saw cut for signal.
	1	EA	816	Install eight phase (fully actuated) controller and cabinet - base mount.
	2	EA	829	Furnish and install 27 ft steel pole with twin 60 and 50 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	LS	xxx	Removal and disposal of existing materials.
	4	EA	818	Furnish and install 10 ft. pedestal pole
	4	EA	xxx	Furnish and install breakaway base support system.
	3	EA	xxx	Install pushbutton and sign.
	1	EA	xxx	Furnish and install conduit bend into existing foundation



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


**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
 Office of Traffic & Safety  
**TRAFFIC ENGINEERING DESIGN DIVISION**  
 MD 5 (BRANCH AVE) @ CURTIS DRIVE  
 GENERAL INFORMATION SHEET 2 OF 2  
 LOGMILE #: 16000514.74 DATE: / /

DRAWN BY: DCI	F.A.P. NO. P-388-000-385	PLAN SHEET NO. TS 1071D	SHEET NO. OF
CHECK BY: DMP	S.H.A. NO. PRINCE GEORGES	COUNTY	
SCALE: 8:24-58			