

PROJECT DESCRIPTION

I. General
 This portion of the project involves the installation of a temporary traffic control signal at the intersection of MD 100 and Centre Park Drive in Howard County, Maryland. The work shall be conducted in conjunction with the construction of MD 100. MD 100 is assumed to run in a east-west direction.

II. Intersection Operation
 No change to the existing intersection operation is necessary.

III. Special Notes

- The following contact persons for District #7 are as follows:
 Mr. Robert Fisher, District Engineer (301) 694-2145
 Mr. John Concannon, Asst. District Engineer - Traffic (301) 694-2592
 Mr. Jim Brown, Utility Engineer (301) 694-2025
 Mr. Richard Daff, Chief, Traffic Operations Division (410)787-7630
 Mr. Leon King, Asst. District Engineer - Maintenance (301) 694-1966
- Maintenance of traffic will be handled by the contractor utilizing the following standard plates for traffic control: 105.00, 105.01, 105.02, 105.03, 105.101, 105.103, 105.105, 105.107, 105.109.

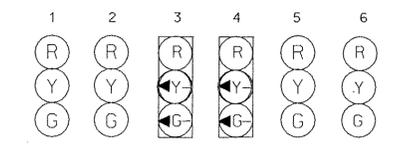
EQUIPMENT LIST (CON'T)

Item No.	Quantity	Units	Specification Section	Description
	5.0	CY	801	Furnish and install concrete for signal foundation.
	1	EA	804	Furnish and install 3/4" x 10 ft. ground rod.
	515	LF	805	Furnish and install 2 in. schedule 40 rigid PVC conduit - Trenched.
9	205 125	LF	SP/805	Furnish and install 3 in. schedule 80 rigid PVC conduit - Trenched.
9	20 210	LF	805	Furnish and install 3 in. schedule 80 rigid PVC conduit - slotted.
9	70 55	LF	805	Furnish and install 1 in. liquid tight flexible non-metallic conduit for detector wire sleeve.
	1	EA	806	Furnish and install 250 Watt high pressure sodium lamp and luminaire with photo cell.
9	4960 1200	LF	810	Furnish and install electrical cable - 2 conductor (Aluminum shielded).
	60	LF	810	Furnish and install electrical cable - 5 conductor (No. 14 AWG).
	830	LF	810	Furnish and install electrical cable - 7 conductor (No. 14 AWG).
9	2100 1500	LF	810	Furnish and install loop wire encased in flexible tubing (No. 14 AWG).
	450	LF	810	Furnish and install electrical cable 2 - (No. 12 AWG) copper type T/C
	8	EA	811	Furnish and install electrical handhole.
9	400 60	LF	812	Furnish and install wood sign support 4 in. x 4 in.
9	54 58.5	SF	813	Install overhead sign - for signals.
9	30 21	SF	813	Install ground mount sign.
	6	EA	814	Install signal head - any type.
9	27 42	EA	SP.	Furnish and install Flex Post
9	570 390	LF	815	Furnish and install saw cut for signal (loop detector).
	1	EA	818	Furnish and install 20 ft. lighting arm on signal structure
	1	EA	SP	Furnish and install 27 ft. steel pole with twin 70 ft./50 ft. mast arm. (Note: Four - 2 in. x 90 in. anchor bolts)

EQUIPMENT LIST (CON'T)

Item No.	Quantity	Units	Specification Section	Description
9	1	X EA	SP.	Removal and disposal of existing traffic signal equipment.
9	1	X EA	SP.	Remove and salvage of traffic signal equipment
9	1	X EA	SP.	Delivery of salvaged traffic signal equipment consisting of:
	1	EA		Controller and Cabinet - base mount

PHASING SEQUENCE CHART



PHASE	1	2	3	4	5	6	Diagram
PHASE 2	G	G	FL/R	FL/R	R	R	[Diagram]
PHASE 2 CLEAR	Y	Y	FL/R	FL/R	R	R	[Diagram]
PHASE 3	R	R	←G	←G	R	R	[Diagram]
PHASE 3 CLEAR	R	R	←Y	←Y	R	R	[Diagram]
PHASE 4	R	R	R	R	G	G	[Diagram]
PHASE 4 CLEAR	R	R	R	R	Y	Y	[Diagram]
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	[Diagram]

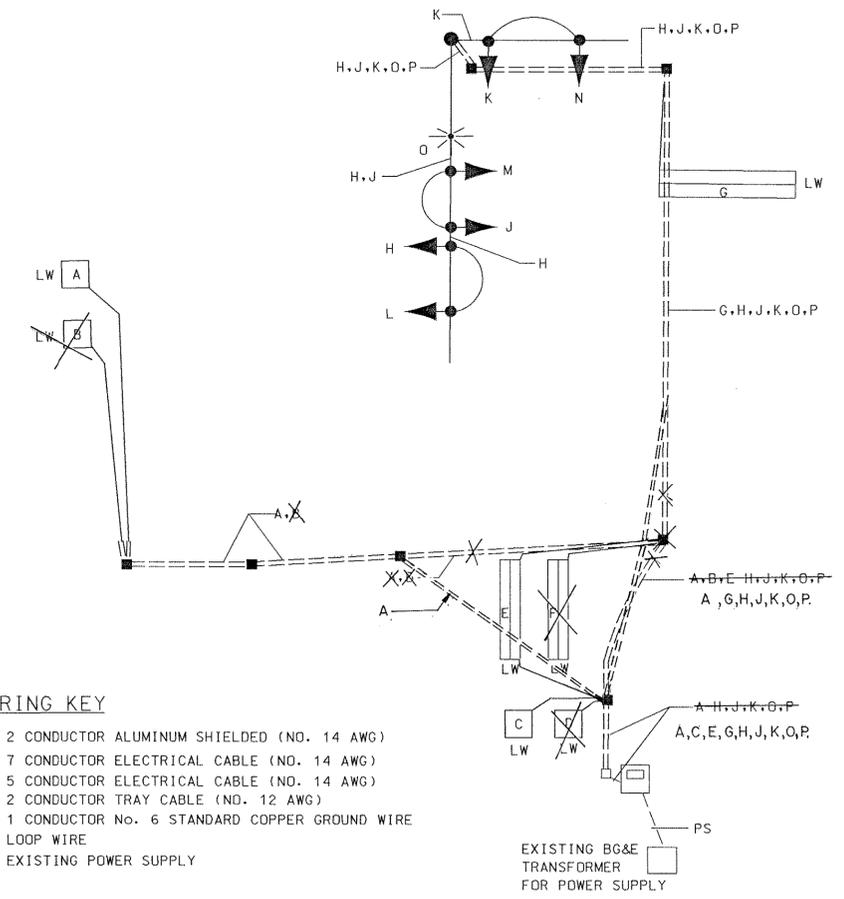
EQUIPMENT LIST

A. Equipment to be supplied by the Administration and Installed by the Contractor

Item No.	Quantity	Units	Specification Section	Description
	2	EA	814	12 in. 1 way 3 section (R,Y,G) optically programmed signal head - mast arm mount.
	4	EA	814	12 in. 1 way 3 section (R,Y,G) signal head - mast arm mount.
9	87 79.5	SF	813	Sheet aluminum signs consisting of: R3-5(L), (30 in. x 36 in.) "Only" left turn arrow sign - mast arm mount.
	1	EA	-	R3-5(R), (30 in. x 36 in.) "Only" right turn arrow sign - mast arm mount.
9	4 2	EA	-	D3-2 (VAR. x 16 in.) "Centre Park Drive" sign - mast arm mount
	2	EA		M2-1 (21" x 15") "JCT" sign - ground mount
	1	EA		M1-6 (24" x 24") "MD 100" sign - ground mount
	1	EA		R10-6C, (36" x 60") "PROCEED ON FLASHING RED AFTER STOP" - mast arm mount.
9	2	EA		R3-5c (MD) (60" x 36") direction arrows ground-mounted.

Item No.	Quantity	Units	Specification Section	Description
9	4960 1200	LF	810	Furnish and install electrical cable - 2 conductor (Aluminum shielded).
	60	LF	810	Furnish and install electrical cable - 5 conductor (No. 14 AWG).
	830	LF	810	Furnish and install electrical cable - 7 conductor (No. 14 AWG).
9	2100 1500	LF	810	Furnish and install loop wire encased in flexible tubing (No. 14 AWG).
	450	LF	810	Furnish and install electrical cable 2 - (No. 12 AWG) copper type T/C
	8	EA	811	Furnish and install electrical handhole.
9	400 60	LF	812	Furnish and install wood sign support 4 in. x 4 in.
9	54 58.5	SF	813	Install overhead sign - for signals.
9	30 21	SF	813	Install ground mount sign.
	6	EA	814	Install signal head - any type.
9	27 42	EA	SP.	Furnish and install Flex Post
9	570 390	LF	815	Furnish and install saw cut for signal (loop detector).
	1	EA	818	Furnish and install 20 ft. lighting arm on signal structure
	1	EA	SP	Furnish and install 27 ft. steel pole with twin 70 ft./50 ft. mast arm. (Note: Four - 2 in. x 90 in. anchor bolts)

WIRING DIAGRAM



WIRING KEY

- 2 CONDUCTOR ALUMINUM SHIELDED (NO. 14 AWG)
- H, J, K = 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- L, M, N = 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- O = 2 CONDUCTOR TRAY CABLE (NO. 12 AWG)
- P = 1 CONDUCTOR No. 6 STANDARD COPPER GROUND WIRE
- LW = LOOP WIRE
- PS = EXISTING POWER SUPPLY

EQUIPMENT LIST

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

Item No.	Quantity	Units	Specification Section	Description
	1	EA	206	Test Pit excavation.
	180	LF	555	Furnish and install 6 in. white preformed permanent pavement marking tape
	75	LF	555	Furnish and install 12 in. white permanent preformed pavement marking tape.
	70	LF	555	24 in. white permanent preformed pavement marking tape.

REVISIONS	APPROVALS
9 REDLINE NO. 9	ASST. DIV. CHIEF, SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DEPUTY CHIEF ENGINEER, OFFICE OF TRAFFIC

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

ORIGINAL DRAWN BY: ROB CICCHINI
 DES. BY: SCOTT CHERNACK
 CHK. BY: Bruce Thompson 11-7-96

MD 100 AT CENTRE PARK DRIVE
 GENERAL INFORMATION SHEET 1 OF 1
 LOG MILE 130100 COUNTY: HOWARD

DATE: 10/96 F.A.P. NO. SEE TITLE SHEET
 SCALE: _____ S.H.A. NO. HO-661-502-770

TS/FILE NO. SHEET NO.
 TS 3416-GI-1 413 OF _____



SIG-2 TEMPORARY SIGNAL #1 PHASE IV-A