

PROJECT DESCRIPTION

- I. GENERAL
THIS PORTION OF THE PROJECT INVOLVES THE RELOCATION OF A SIGNAL POLE IN THE NORTHEAST QUADRANT AT THE INTERSECTION OF GREAT SENECA HIGHWAY AT KENTLANDS BOULEVARD/ORCHARD RIDGE DRIVE IN MONTGOMERY COUNTY, MARYLAND. GREAT SENECA HIGHWAY IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION.
- II. INTERSECTION OPERATION
NO CHANGE TO INTERSECTION OPERATION.
- III. SPECIAL NOTES
1. ALL DISCONNECTING AND CONNECTING OF TRAFFIC SIGNAL INTERCONNECT CABLE SHALL BE THE RESPONSIBILITY OF THE MONTGOMERY COUNTY DPW. CONTACT MR. ROBERT GONZALES AT (240) 777-8761 AT LEAST 72 HOURS PRIOR TO INITIATING ANY CONSTRUCTION WORK.

2. THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWING:

Mr. Randy Brown Asst. District Engineer-Maintenance Phone #(301) 513-7304	Mr. Joe Geckel Asst. District Engineer-Utility Phone #(301) 513-7350
Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division Phone #(410) 787-7630	Mr. Lee Starkloff Asst. District Engineer-Traffic Phone #(301) 513-7318

A. EQUIPMENT LIST

EQUIPMENT TO BE FURNISHED BY ADMINISTRATION
QUANTITY -- None

B. EQUIPMENT LIST

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

QUANTITY	UNITS	SPECIFICATION SECTION	DESCRIPTION
	LS	104	Maintenance of Traffic.
	LS	SP	Mobilization.
28	EA	SP	Furnish and install 12in., 1-way vehicle signal head section - span-mount.
1	EA	817	Install pedestrian push button and R10-4(l) sign.
1	CY	205	Test pit excavation.
4.65	CY	801	Furnish and install concrete for signal pole foundation.
200	LF	549	Remove existing pavement marking - any width.
50	LF	549	Furnish and install 24 in. white thermoplastic, heat-applied pavement marking tape.
180	LF	529	Furnish and install 12in. white thermoplastic, heat-applied pavement marking tape.
2	EA	814	Furnish and install 12 in., one way, 2 section (symbolic WALK/DON'T WALK) aluminum pedestrian signal head, pole mount
1100	LF	810	Furnish and install 2 conductor electrical cable (No.14 AWG) (aluminum shielded).
360	LF	810	Furnish and install 2 conductor (Tray cable) (No.12 AWG).
500	LF	810	Furnish and install loop wire encased in flexible tubing (No.14 AWG).
30	LF	805	Furnish and install 1 in. liquid tight flexible non-metallic conduit for detector wire sleeve.
400	LF	810	Furnish and install 5 conductor electrical cable (No.14 AWG).
1350	LF	810	Furnish and install 7 conductor electrical cable (No.14 AWG).
8	EA	822	Relocate overhead sign - for signals (span mount)
350	LF	810	Furnish and install 12-pair interconnect cable.

EQUIPMENT LIST

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

QUANTITY	UNITS	SPECIFICATION SECTION	DESCRIPTION
1	EA	818	Furnish and install a 14 in. X 32 ft. steel pole (Note: four - 2-1/4 in. X 7/2 in. anchor bolts).
1	EA	SP	Relocate splice box for interconnect.
1	EA	811	Furnish and install electrical handhole.
1	EA	811	Adjust electrical handhole.
50	LF	805	Furnish and install 3 in. schedule 80 rigid PVC conduit-trenched.
1	LS	SP	Remove and dispose of existing signal equipment.
400	LF	819	Furnish and install 3/8 in. steel span wire.
400	LF	819	Furnish and install 1/4 in. tether wire.
1	EA	808	Furnish and install 20 ft. lighting arm on signal structure.
1	EA	806	Furnish and install 250 watt high pressure sodium lamp and luminaire with photo cell.
1	EA	804	Furnish and install ground rod - 3/4 in. diameter X 10 ft.
1	LS	810	Re-Route existing 50-pair interconnect cable.
125	LF	815	Saw cut for loop detector.
1	EA	SP	Furnish and install 14' pedestal pole.

C. EQUIPMENT TO BE RETURNED TO THE ADMINISTRATION
ALL EQUIPMENT THAT IS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

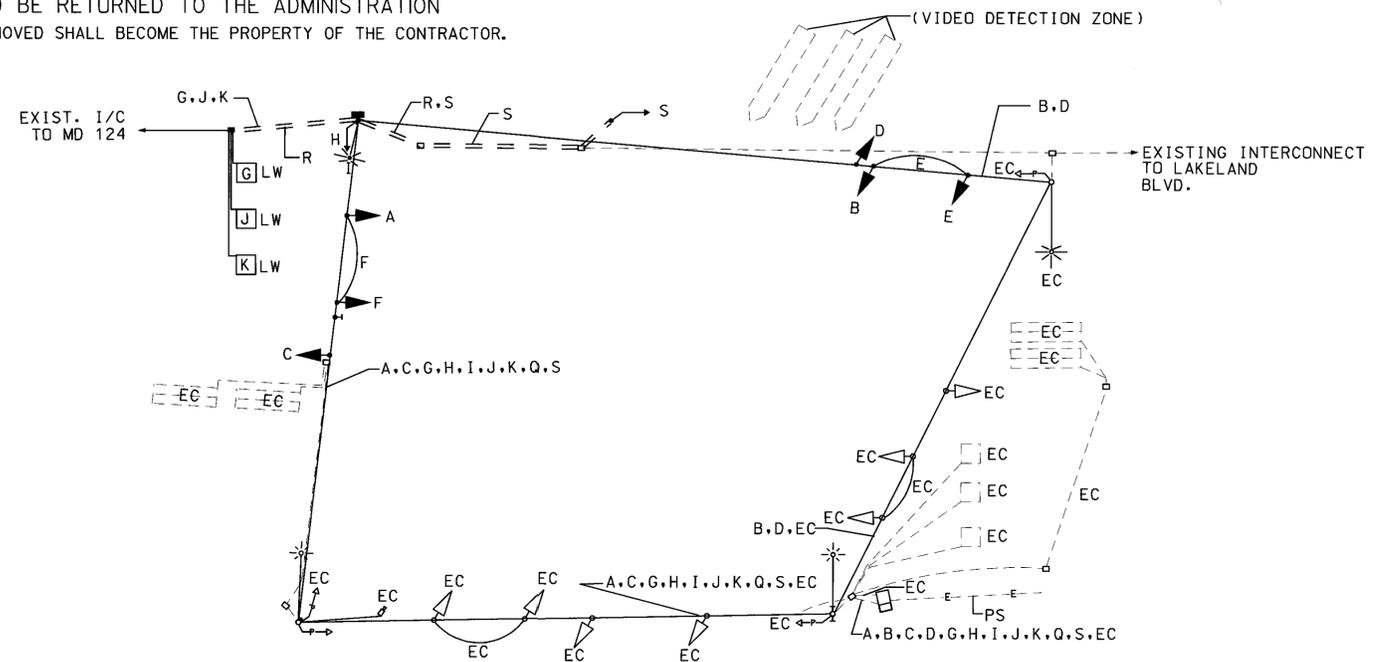
PHASING SEQUENCE CHART

NO CHANGE IN EXISTING OPERATIONS

WIRING DIAGRAM

- WIRING KEY
- A-D - 7 CONDUCTOR ELECTRICAL CABLE (NO.14 AWG) FOR SIGNAL HEADS
 - E-F-S - 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) FOR VEHICLE SIGNAL HEADS, AND PED HEAD.
 - H - 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) FOR PEDESTRIAN SIGNAL AND PUSH BUTTON.
 - G,J,K - 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) ALUMINUM SHIELDED.
 - I - 2 CONDUCTOR ELECTRICAL CABLE (TRAY NO. 12 AWG) COPPER TYPE T/C
 - Q - 12 PAIR INTERCONNECT CABLE.
 - R - RE-ROUTE EXISTING 50 PAIR INTERCONNECT CABLE.
 - LW - LOOP WIRE (1 CONDUCTOR 1/2" FLEXIBLE PVC CONDUIT (NO. 14 AWG))
 - PS - EXISTING POWER SERVICE FEED.
 - EC - EXISTING CABLE

WIRING DIAGRAM



WELLS & ASSOCIATES, LLC TRANSPORTATION, TRAFFIC, AND PARKING CONSULTANTS 1420 Spring Hill Rd., Suite 600 McLean, VA 22102 Phone: (703) 917-6620 Fax: (703) 917-0739 170 Jennifer Rd., Suite 260 Annapolis, MD 21401 Phone: (301) 970-2402 Fax: (410) 266-9189	REVISIONS 01. 3/03 RELOCATE POLE IN NORTHEAST CORNER DUE TO GEOMETRIC IMPROVEMENTS. BW996M82 02. 4/03 RELOCATE POLE IN SOUTHEAST CORNER DUE TO GEOMETRIC IMPROVEMENTS INCLUDING THE NEW ORCHARD RIDGE DRIVE APPROACH. E430	MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION TRAFFIC SIGNAL DESIGN PLAN MD 119 (GREAT SENECA HIGHWAY) AND KENTLANDS BOULEVARD/ORCHARD RIDGE DRIVE	
	DRAWN BY: JAW CHECKED BY: WT/LES SCALE: 1"=20' DATE: 3/10/03	F.A.P. NO. S.H.A. NO. COUNTY: MONTGOMERY LOG MILE: 1501902.45	TS NO. 4212B T.I.M.S. NO. F183