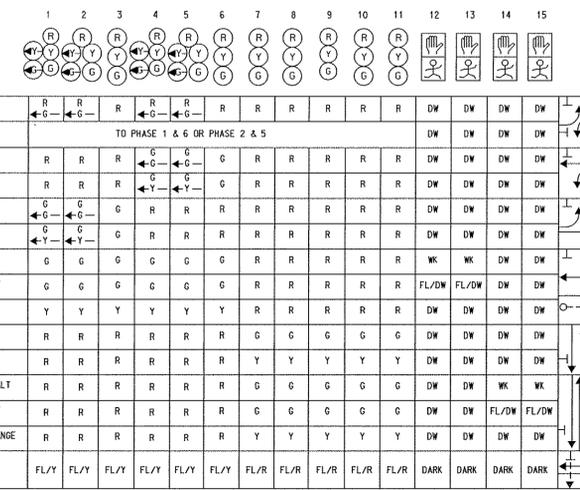


PROJECT DESCRIPTION

EQUIPMENT LISTS (CON'T.)

EQUIPMENT LISTS (CON'T.)

PHASE CHART



I. GENERAL

This project involves the installation of a new Traffic Control Signal with street lighting at the intersection of MD 108 and Old Waterloo Road/Summer Cloud Way in Howard County. MD 108 is assumed to run in a north-south direction.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA six-phase, fully-actuated mode, with the MD 108 approaches running concurrently. Exclusive/Permissive left turn phases shall be provided for both approaches of MD 108. A pedestrian phase with pushbutton actuation shall be provided across the south leg of MD 108. The pedestrian phase across Summer Cloud Way shall be on a recall. The Old Waterloo Road/Summer Cloud Way approaches shall also run concurrently.
- A full-traffic-actuated, eight-phase controller with two (2) four-channel, rack mount loop detector amplifiers, Intersection Monitor with battery back-up for phone drop and associated harnesses housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.

III. SPECIAL NOTES

- All field wiring to the controller cabinet shall be terminated to the appropriate controller cabinet connectors by the Contractor and labeled. All other controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- Upon completion of this project, the Contractor shall notify Mr. Robert Snyder at (410) 787-7631 to arrange for the phone line installation. The Contractor is to provide Mr. Robert Snyder with the nearest street address, zip code and phone number.

EQUIPMENT LISTS

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

QUANTITY	SPEC. SECTION	DESCRIPTION
1 Each	814	Furnish and install 8", one-way, three-section (R,Y,G) traffic signal head with adjustable bracket for pole mounting and tunnel visors.
6 Each	814	Furnish and install 12", one-way, three-section (R,Y,G) traffic signal head with adjustable bracket for mast arm mounting and tunnel visors.
2 Each	814	Furnish and install 12", one-way, five-section (R,Y,A,Y,G,A,G) (left arrows) traffic signal head with adjustable bracket for mast arm mounting and tunnel visors.
2 Each	814	Furnish and install combination 8"-12", one-way, five-section (R-Y,G) (12"-Y,A,G,A) (left arrows) traffic signal head with adjustable bracket for mast arm mounting and tunnel visors.
1 Each	814	Furnish and install 12", one-way, two-section (D,W,W) symbolic pedestrian signal head with adjustable bracket for pole mounting and cutaway visors.
1 Each	814	Furnish and install 12", one-way, two-section (D,W,W) symbolic pedestrian signal head having proper post top adapter for pedestal mounting and cutaway visors.
1 Each	814	Furnish and install 12", two-way, two-section (D,W,W) symbolic pedestrian signal head with adjustable bracket for pole mounting and cutaway visors.
2 Each	817	Furnish and install pedestrian pushbutton and R10-3C sign. (Note: Sign to read "PUSHBUTTON TO CROSS MD 108").
1 Each	816	Furnish and install eight-phase, full-traffic-actuated, solid state digital controller with two (2) four-channel, rack mount loop detector amplifiers, Intersection Monitor with battery back-up for phone drop and associated harnesses housed in a NEMA size "6" base-mounted cabinet.
2 Sets	815.01/815.02	Furnish and install probes (Model 20002) (set of 3) with lead-ins and 500 L.F. of Micro-loop lead-in cable (home-run cable).
1 Set	815.01/815.02	Furnish and install probes (Model 20002) (set of 3) with lead-ins and 1000 L.F. of Micro-loop lead-in cable (home-run cable).
52 S.F.	813	Furnish and install sheet aluminum signs to consist of: 2 Each W3-3 NEW "SIGNAL AHEAD" sign, (36" x 36") ground mounted with hardware. 2 Each W3-3 NEW "SIGNAL AHEAD" sign, (48" x 48") ground mounted with hardware.
114 S.F.	813	Furnish and install sheet aluminum signs to consist of: 1 Each R10-3C "Pedestrian Education" sign, (9" x 12") pole mounted. 2 Each D3-2 "Waterloo Rd" sign, (variable x 16") mast arm mounted. 1 Each D3-2 "(arrow) Old Waterloo Rd, Summer Cloud Way (arrow)" sign, (variable x 32") mast arm mounted. 1 Each D3-2 "(arrow) Summer Cloud Way, Old Waterloo Rd (arrow)" sign, (variable x 32") mast arm mounted.

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR (CON'T.).

QUANTITY	SPEC. SECTION	DESCRIPTION
2 Each		R10-12 "LEFT TURN YIELD ON GREEN (BALL)" sign, (36" x 42") mast arm mounted.
1 Each		R3-5R "RIGHT TURN ONLY" sign, (30" x 36") mast arm mounted.
1 Each		Associated shield assembly, "M3-2 "EAST" (24" x 12"), M1-6 "MARYLAND 108" (30" x 24"), M6-1 "RIGHT ARROW" (21" x 15") sign, (30" x 51") with hardware to be fabricated on a single panel for steel pole mounting.
1 Each		Associated shield assembly, "M3-2 "EAST" (24" x 12"), M1-6 "MARYLAND 108" (30" x 24"), M6-1 "LEFT ARROW" (21" x 15") sign, (30" x 51") with hardware to be fabricated on a single panel for steel pole mounting.
1 Each		Associated shield assembly, "M3-4 "WEST" (24" x 12"), M1-6 "MARYLAND 108" (30" x 24"), M6-1 "RIGHT ARROW" (21" x 15") sign, (30" x 51") with hardware to be fabricated on a single panel for steel pole mounting.
1 Each		Associated shield assembly, "M3-4 "WEST" (24" x 12"), M1-6 "MARYLAND 108" (30" x 24"), M6-1 "LEFT ARROW" (21" x 15") sign, (30" x 51") with hardware to be fabricated on a single panel for steel pole mounting.
	L.S. 106	Mobilization
	L.S. 106	Maintenance of traffic.
150 S.F.	104	Temporary traffic sign.
15 U.D.	105	Flashing arrow panels.
4 Each	204	Test pit excavation.
100 L.F.	SP-555	Furnish and install thermoplastic pavement marking tape, yellow (5" width for centerlines).
270 L.F.	SP-555	Furnish and install thermoplastic pavement marking tape, white (12" width for crosswalks).
120 L.F.	SP-555	Furnish and install thermoplastic pavement marking tape, white (24" width for stoplines).
100 L.F.	805	Remove existing pavement marking utilizing grinder method.
135 S.F.	610	Furnish and install 4" concrete sidewalk, mix No. 2.
110 S.F.	805	Remove sidewalk.
18 C.Y.	801	Furnish and install concrete foundation.
5 Each	804	Furnish and install ground rod, 3/4" diameter x 10' length.
1 Each	818/821	Furnish and install 10' break-away pedestal pole with transformer base.
2 Each	818	Furnish and install 27' steel pole with a 50' mast arm. (Note: 4 anchor bolts will be 1 3/4" x 90".)
1 Each	818	Furnish and install 27' steel pole with twin 50' mast arms. (Note: 4 anchor bolts will be 1 3/4" x 90".) (Note: 50' mast arms shall be cut to 40' and 46' lengths.)

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR (CON'T.).

QUANTITY	SPEC. SECTION	DESCRIPTION
725 L.F.	815	Furnish and install sawcut.
25 L.F.	805	Furnish and install 1" liquid tight flexible non-metallic electrical conduit (detector wire sleeve).
815 L.F.	805	Furnish and install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
70 L.F.	805	Furnish and install 2" polyvinyl chloride electrical conduit (Schedule 80) (bored).
70 L.F.	805	Furnish and install 4" polyvinyl chloride electrical conduit (Schedule 80) (bored).
95 L.F.	805	Furnish and install 4" polyvinyl chloride electrical conduit (Schedule 80) (slotted).
80 L.F.	805	Furnish and install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
1 Each	807	Furnish and install control and distribution equipment.
11 Each	811	Furnish and install handhole (frame and cover).
365 L.F.	804	Furnish and install stranded bare copper ground wire (No. 6 A.W.G.).
2440 L.F.	810	Furnish and install loop wire (No. 14 A.W.G.) encased in 1/4" flexible tubing.
610 L.F.	810	Furnish and install 2-conductor electrical cable (No. 14 A.W.G.) (aluminum shielded).
370 L.F.	810	Furnish and install 2-conductor electrical cable (No. 14 A.W.G.).
275 L.F.	810	Furnish and install 3-conductor electrical cable (No. 14 A.W.G.).
690 L.F.	810	Furnish and install 5-conductor electrical cable (No. 14 A.W.G.).
1540 L.F.	810	Furnish and install 7-conductor electrical cable (No. 14 A.W.G.).
495 L.F.	810	Furnish and install 2-conductor electrical cable (No. 12 A.W.G.) type THHN tray cable.
72 L.F.	812	Furnish and install wood sign supports (4" x 4").
36 L.F.	812	Furnish and install wood sign supports (4" x 6").
2 Each	806	Furnish and install 250W-HPS luminaire.
2 Each	808	Furnish and install 10' lighting arm.
2 Each		Remove existing R1-1 "STOP" sign and post.
1 Each	800	Use existing plan on disk and as-built traffic control device.

CATEGORY 800 UTILITIES SECTION 875-UTILITIES

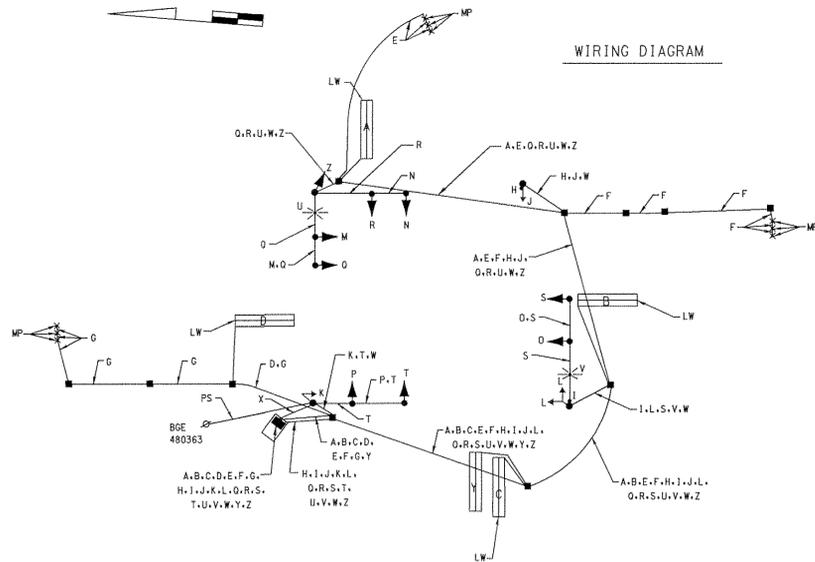
The following contact persons for District #7 are as follows:

- Mr. Bob Fisher  
District Engineer  
Phone: (410) 694-2145
- Mr. John Concannon  
Assistant District Engineer - Traffic  
Phone: (410) 694-2595
- Mr. Leon Kerns  
Assistant District Engineer - Maintenance  
Phone: (410) 694-1966
- Mr. John Wright  
Assistant District Engineer - Utility  
Phone: (410) 694-2145
- Mr. Richard L. Daff, Sr.  
Chief, Traffic Operations Division  
Phone: (410) 787-7630

The power company representative is:

- Mr. Joe Bunch  
Baltimore Gas Electric Company  
Customer Operations  
7317 Parkway Drive, South Hanover, Maryland 21076  
(410) 859-9042

WIRING DIAGRAM



WIRING KEY

- A - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) (ALUMINUM SHIELDED)
- B - MICRO-LOOP PROBES CABLE (HOME RUN CABLE)
- C - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- F - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
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- GK - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- GL - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- GM - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- GN - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- GO - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- GP - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- GQ - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- GR - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- GS - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- GT - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- GU - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- GV - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- GW - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- GX - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- GY - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- GZ - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HA - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HB - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HC - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HD - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HE - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HF - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HG - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HH - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HI - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HJ - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HK - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HL - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HM - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HN - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HO - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HP - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HQ - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HR - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HS - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HT - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HU - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HV - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HW - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HX - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HY - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- HZ - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- IA - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- IB - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- IC - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- ID - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- IE - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- IF - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- IG - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- IH - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- II - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- IJ - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- IK - 2-CONDUCTOR ELECTRICAL C