

**PROJECT DESCRIPTION
GENERAL**

THIS PROJECT INVOLVES THE INSTALLATION OF RED LIGHT RUNNING CAMERA EQUIPMENT TO THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 97 (Malcom Dr) AND CROSSROAD SQUARE & 140 VILLAGE CENTER SHOPPING CENTERS IN CARROLL COUNTY.

INTERSECTION OPERATION

A NEW ELECTRICAL SERVICE POWER PEDESTAL SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION OPERATION WILL REMAIN UNCHANGED.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:
 MR. JOHN CONCANNON, ASSISTANT DISTRICT ENGINEER - TRAFFIC
 PHONE: (301) 624-8140
 MR. JOHN HUCHROWSKI, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
 PHONE: (301) 624-8200
 MR. RAYMOND F. JOHNSON, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
 PHONE: (301) 624-8105
 MS. ANDREA ABEND, UTILITY ENGINEER
 PHONE: (301) 624-8115
 MR. RICHARD L. DAFI, SR., CHIEF TRAFFIC OPERATIONS DIVISION
 PHONE: (410) 787-7630
 MR. EDWARD RODENHIZER, SUPERVISOR, SIGNAL OPERATIONS
 PHONE: (410) 787-7652

THE POWER COMPANY REPRESENTATIVE IS:
 BALTIMORE GAS & ELECTRIC
 7317 PARKWAY DRIVE SOUTH
 HANOVER, MD 21076
 410-859-9070
 WMS# 0001837176

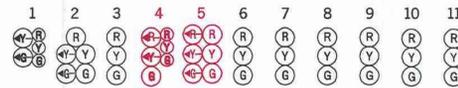
EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.
 NONE.

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

QUANTITY	UNITS	DESCRIPTION
LUMP SUM	LS	MAINTENANCE OF TRAFFIC
LUMP SUM	LS	MOBILIZATION
2	CY	TEST PIT EXCAVATION
1	EA	LASERCRAFT CAMERA ASSEMBLY
1	EA	LASERCRAFT LASER ASSEMBLY
1	EA	LASERCRAFT RED-LIGHT CAMERA POLE MOUNTED CABINET
2	EA	13 FT MILLERBERND POLE, "T" BASE
25	LF	2 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
125	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
225	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - BORED
150	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - SLOTTED
15	LF	4 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
45	LF	1-CONDUCTOR CABLE (NO. 4 AWG)
1050	LF	2-CONDUCTOR TRAY CABLE (NO.12 AWG)
615	LF	115 V POWER, SIGNAL PHASE-3 CONDUCTOR (#14) CABLE
275	LF	115 V POWER, SIGNAL PHASE-7 CONDUCTOR (#14) CABLE
375	LF	12-PAIR (PE122TEL) (#24) CABLE
350	EA	BARE COPPER GROUND WIRE (NO. 6 AWG)
5	EA	GROUND ROD - 3/4 IN. X 10 FT. LENGTH
4	EA	HANDHOLE
1	EA	ADJUST EXISTING HANDHOLE TO GRADE
2	CY	CONCRETE FOUNDATION FOR CAMERA /LASER EQUIPMENT
1	EA	METERED SERVICE PEDESTAL FOR UNDERGROUND ELECTRICAL SERVICE PER MD-SHA TYPICAL 807.05-01.
LUMP SUM	LS	REMOVE/SALVAGE EXSITING ELECTRICAL SERVICE

Phase Chart



PHASE 1 AND 5	←GR	←GR	R	←GR	←GR	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																				
PHASE 1 AND 6	←GG	←GG	G	DKR	DKR	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1 CHANGE	←YG	←YG	G	DKR	DKR	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 5	R	R	R	←GG	←GG	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R
5 CHANGE	R	R	R	←YG	←YG	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	G	G	G	G	G	G	G	G
4 AND 8 CHANGE	R	R	R	R	R	R	G	G	G	G	G	G	G	G	G	G	G	G	G	G
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R													

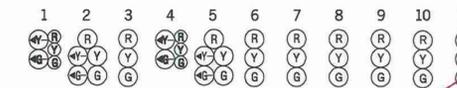
SPECIAL OPERATION 3-6 PM ONLY

PHASE 1 AND 5	←GR	←GR	R	←GR	←GR	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																				
PHASE 1 AND 6	←GG	←GG	G	←RR	←RR	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1 CHANGE	←YG	←YG	G	←RR	←RR	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 5	R	R	R	←GG	←GG	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R
5 CHANGE	R	R	R	←YG	←YG	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 6	G	G	G	←RG	←RG	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R
2 AND 6 CHANGE	Y	Y	Y	←RY	←RY	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4 AND 8	R	R	R	←RR	←RR	R	G	G	G	G	G	G	G	G	G	G	G	G	G	G
4 AND 8 CHANGE	R	R	R	←RR	←RR	R	G	G	G	G	G	G	G	G	G	G	G	G	G	G
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R													

GENERAL NOTES

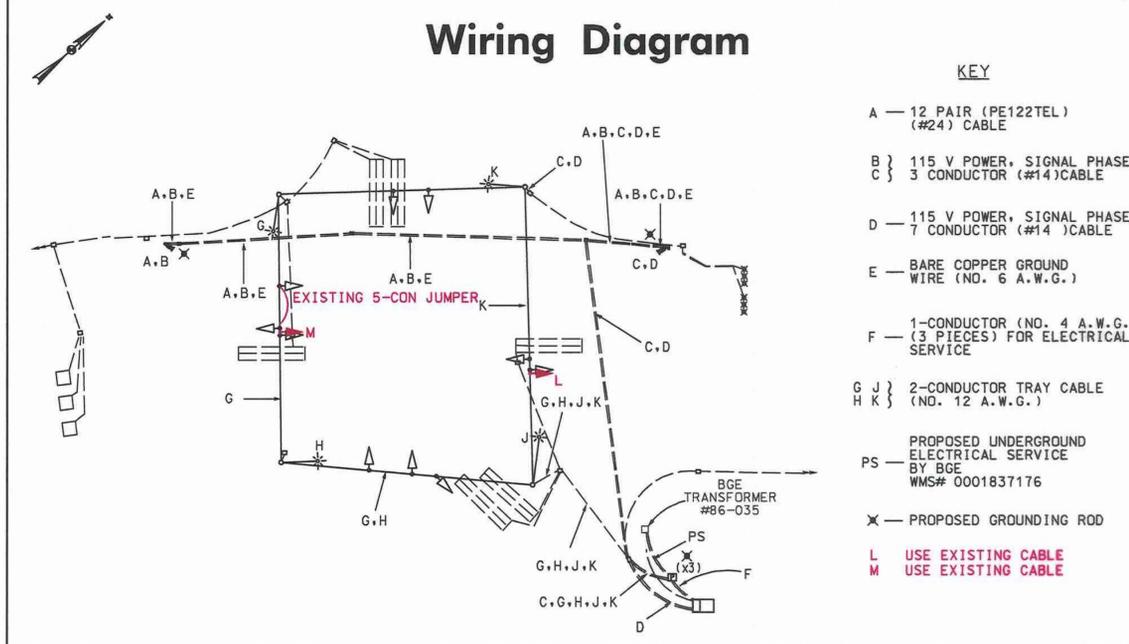
1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
2. GEOMETRICS SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
3. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
4. THE CONTRACTOR IS TO BE AWARE THAT THE SHA HAS EXISTING UNDERGROUND CONDUITS, TRAFFIC SIGNAL INTERCONNECT CABLES AND ROAD SIGNS IN THE VICINITY OF PROPOSED EQUIPMENT. ANY DAMAGE TO THESE FACILITY'S AS A RESULT OF THIS CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR HIS CLIENT TO REPAIR OR REPLACE.
5. ALL UNUSED CABLE SHALL BE REMOVED.

Phase Chart



PHASE 1 AND 5	←RG	←RG	R	←RG	←RG	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																				
PHASE 1 AND 6	←GG	←GG	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1 CHANGE	←YG	←YG	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 5	R	R	R	←GG	←GG	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R
5 CHANGE	R	R	R	←YG	←YG	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	G	G	G	G	G	G	G	G
4 AND 8 CHANGE	R	R	R	R	R	R	G	G	G	G	G	G	G	G	G	G	G	G	G	G
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R													

Wiring Diagram



KEY

- A — 12 PAIR (PE122TEL) (#24) CABLE
- B } 115 V POWER, SIGNAL PHASE
- C } 3 CONDUCTOR (#14) CABLE
- D — 115 V POWER, SIGNAL PHASE
- E — 7 CONDUCTOR (#14) CABLE
- E — BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- F — 1-CONDUCTOR (NO. 4 A.W.G.) (3 PIECES) FOR ELECTRICAL SERVICE
- G, J } 2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G.)
- H, K }
- PS — PROPOSED UNDERGROUND ELECTRICAL SERVICE BY BGE WMS# 0001837176
- X — PROPOSED GROUNDING ROD
- L — USE EXISTING CABLE
- M — USE EXISTING CABLE

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 MD 97 (Malcom Dr) at CROSSROAD SQUARE &
 140 VILLAGE CENTER SHOPPING CENTERS

GENERAL INFORMATION PLAN

SCALE	NA	DATE	September 25, 2009	CONTRACT NO.	BW896M82
DESIGNED BY	J. Dimdorfer	COUNTY	Carroll		
DRAWN BY	J. Dimdorfer	LOGMILE	06009715.49		
CHECKED BY		TIMS NO.	K-014		
F.A.P. NO.	NA	TOD NO.			

TS NO. 1642-D GI DRAWING - OF SHEET NO. 2 OF 2

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