

**PROJECT DESCRIPTION**

**I. GENERAL**

This portion of the project involves the reconstruction of the existing traffic control signal at the intersection of US 50 (Ocean Gateway) and Ocean Landing Shopping Center East Entrance in Worcester County, Maryland. US 50 is considered to run in an east/west direction.

**II. INTERSECTION OPERATION**

The intersection is to operate in a NEMA two (2) phase, semi-traffic-actuated mode. There will be an exclusive left turn phase for the westbound movement of US 50 with a concurrent northbound to eastbound movement. The US 50 eastbound through movement will operate alone.

The existing controller and loop detector amplifier will be relocated into a new base mounted cabinet. The new cabinet will have video detection.

**EQUIPMENT LIST**

A. Equipment to be supplied by the State Highway Administration.  
None.

B. Approved S.H.A. equipment to be purchased by the Developer and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Description
1	EA	27 ft. steel mast arm pole with a 60 ft. mast arm.
1	EA	14 ft. steel pedestal pole with break away transformer base.
1	EA	Standard S.H.A. traffic signal controller, base mounted NEMA 6 cabinet, video detection interface, telemetry interface equipment. Note: Controller and cabinet shall be purchased from eonolite and delivered to the S.H.A. Signal Shop for wiring and testing. Contact Mr. Ed Rodenhizer (410) 787-7650.
1	EA	12 in. one-way, three section L.E.D. (R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
3	EA	Terra Video Detection Camera
700	LF	Terra Video Detection Cable (No. 18 A.W.G.)
2	EA	30 in. x 36 R 3-5(R) sign with mast arm mounting hardware.
1	EA	48 in. x 72 in. Shield Assembly sign with pole mounting hardware.
Lump Sum	LS	Mobilization.
Lump Sum	LS	Maintenance of traffic.
4	CY	Test pit excavation.
4	EA	Handhole.
2	EA	Non-invasive probe (set of 3) with 1000 ft. lead-in cable.
45	LF	1-conductor electrical cable (No. 8 A.W.G.)
90	LF	5-conductor electrical cable (No. 14 A.W.G.)
900	LF	7-conductor electrical cable (No. 14 A.W.G.)
260	LF	Bare copper stranded ground wire (No. 6 A.W.G.)
30	LF	2 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
260	LF	3 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
125	LF	3 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
80	LF	4 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
215	LF	4 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
8.0	CY	Concrete foundation for traffic signal equipment.
4	EA	Ground rod - 3/4 in. diameter x 10 ft. length.
1	EA	Electrical utility service equipment (20/240 V, one phase, three wire system) for an underground electrical power service as per MD-SHA Typical No. 807.05-01 (100 amp. electrical pedestal).
90	LF	24 in. wide HAPPTM - white for stop line.
1	EA	Cap mast arm pole.
25	LF	Remove existing pavement marking by grinding.
Lump Sum	LS	Remove and salvage existing traffic signal equipment.
1	EA	12 in. one-way, three section L.E.D. (R,Y,G) adjustable black faced traffic signal head with post top mounting hardware and tunnel visors.
2	EA	12 in. one-way, three section L.E.D. (R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.

**CONTACT LIST**

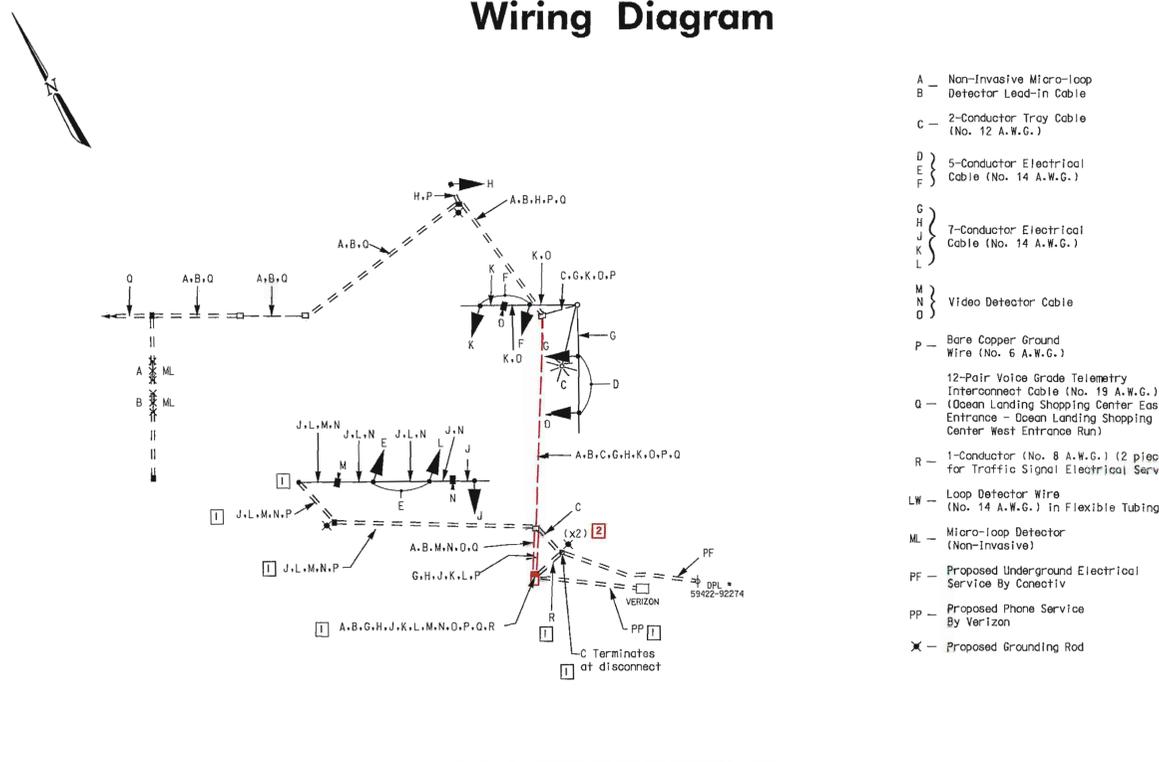
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**Phase Chart**

	1	2	3	4	5	6	7	8
Phase 1	R	R	←G→	G	←G→	G	G	
1 Change	R	R	←Y→	Y	←Y→	Y	Y	↻
Phase 2	G	G	←R→	R	←R→	R	R	
2 Change	Y	Y	←R→	R	←R→	R	R	↻
Flashing Operation	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	↻

**Wiring Diagram**



2 Redline Revision No. 2  
Dated Nov. 2, 2011

**SHA** NOT - SHA  
OATS

S.H.A. Approval \_\_\_\_\_ Date \_\_\_\_\_  
T.S. # 4297 T.I.M.S. # 0-190

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
US 50 (OCEAN GATEWAY) AT  
OCEAN LANDING EAST ENTRANCE  
BERLIN, MARYLAND

**GENERAL INFORMATION PLAN**

SCALE: NA DATE: AUGUST 9, 2010 CONTRACT NO.: BW996M82

DESIGNED BY: F. BROWNLEY COUNTY: WORCESTER  
DRAWN BY: F. BROWNLEY LOGMILE: 23005010.07  
CHECKED BY: \_\_\_\_\_ TMS NO.: G-190  
F.A.P. NO.: \_\_\_\_\_ TOD NO.: \_\_\_\_\_

TS NO. 3866B-GI DRAWING: GI-03 OF 03 SHEET NO. 6 OF 6

PLOTTED: Wednesday, November 02, 2011 AT 04:19 PM  
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