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 relocate 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.

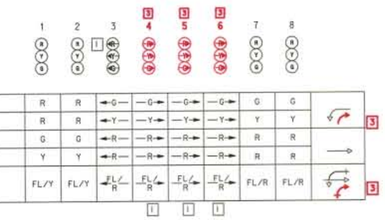
	Quantity	Units	Description
	1	EA	27 ft. steel mast arm pole with a ~~35~~ 50 [3] ft. mast arm.
	1	EA	14 ft. steel pedestal pole with break away transformer base.
	1	EA	Standard S.H.A. traffic signal controller, base mounted NEMA 6 cabinet, video detection interface, telemetry interface equipment, (Note: Controller and cabinet shall be purchased from econolite and delivered to the S.H.A. Signal Shop for wiring and testing. Contact Mr. Ed Rodenhizer (410) 787-7650).
[3]	4 ~~3~~	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]	1 ~~0~~	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.
[2]	4 ~~0~~	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.). [1]
	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.
[1]	260 ~~130~~	LF	3 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
[1]	125 ~~55~~	LF	3 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
	80	LF	4 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
[2]	215 ~~200~~	LF	4 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
[2]	8.0 ~~3.0~~	CY	Concrete foundation for traffic signal equipment.
[2]	4 ~~0~~	EA	Ground rod - 3/4 in. diameter x 10 ft. length.
	1	EA	Electrical utility service equipment (120/240 V, one phase, three wire system) for an underground electrical power service as per MD-SHA Typical No. 807.05-01 (100 amp. electrical pedestral).
	90	LF	24 in. wide HAPPTPM - 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]	1	EA	12 in., one-way, three section L.E.D. (RA,YA,GA) adjustable black faced traffic signal head with post top mounting hardware and tunnel visors.
[3]	3	EA	12 in., one-way, three section L.E.D. (RA,YA,GA) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.

CONTACT LIST

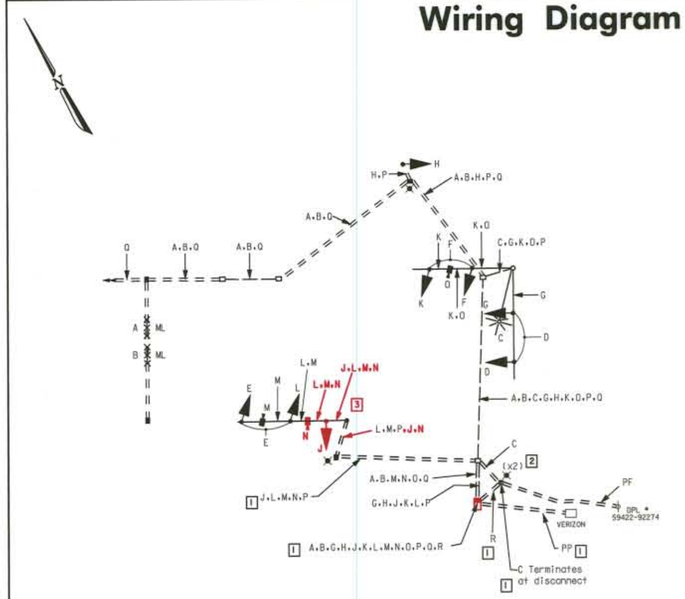
MR. KEN CIMINO, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 677-4046
MR. GREG HOLSEY, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410)-677-4020
MR. WAYNE WIECHMAN, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 677-4010
MR. BRUCE POOLE, UTILITY ENGINEER
PHONE: (410) 677-4082
MR. EDWARD RODENHIZER, SIGNAL OPERATIONS
PHONE: (410)-787-7652

THE POWER COMPANY REPRESENTATIVE IS:
DELMARVA POWER
HEATHER ADKINS
3530 SALISBURY BLVD
SALISBURY, MD 21802-1739
410-860-6357

Phase Chart



Wiring Diagram



A, B — Non-Invasive Micro-loop Detector Lead-In Cable
C — 2-Conductor Tray Cable (No. 12 A.W.G.)
D, E, F — 5-Conductor Electrical Cable (No. 14 A.W.G.)
G, H, J, K, L — 7-Conductor Electrical Cable (No. 14 A.W.G.)
M, N, O — Video Detector Cable
P — Bare Copper Ground Wire (No. 6 A.W.G.)
Q — 12-Pair Voice Grade Telemetry Interconnect Cable (No. 19 A.W.G.) (Ocean Landing Shopping Center East Entrance - Ocean Landing Shopping Center West Entrance Run)
R — 1-Conductor (No. 8 A.W.G.) (2 pieces) for Traffic Signal Electrical Service [1]
LW — Loop Detector Wire (No. 14 A.W.G.) in Flexible Tubing
ML — Micro-loop Detector (Non-Invasive)
PF — Proposed Underground Electrical Service By Conectiv
PP — Proposed Phone Service By Verizon
— Proposed Grounding Rod

[3] Redline Revision No. 3
April 5, 2012
MOT Phase Change

SHA MOT - SHA OOTS
4-5-12
Approval Date
Approval Date
SHA No. BW996M82 TIMS # G190

Sheet 4 of 4

[3] ULTIMATE TRAFFIC SIGNAL PLAN

The Traffic Group, Inc.
Suite H
9900 Franklin Square Drive
Baltimore, Maryland 21236
410-931-6600
1-800-583-8411
Fax 410-931-6601
"Merging Innovation and Excellence"®

BY: JDimdorfer

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 N/A DATE Aug. 9, 2010 CONTRACT NO. BW996M82

DESIGNED BY F. Brownley
DRAWN BY F. Brownley
CHECKED BY
F.A.P. NO.
COUNTY WORCESTER
LOGMILE 23005010.07
TIMS NO. G-190
TOD NO.

TS NO3866B-GI | DRAWING GI - 03 OF 03 | SHEET NO. 6 OF 6

PLOTTED: Thursday, April 05, 2012 AT 01:34 PM
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