

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE ADDITION OF OPTICOM FIRE HOUSE PREEMPTION TO THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF BROKEN LAND PARKWAY AND THE US 29 SOUTHBOUND OFF-RAMP IN HOWARD COUNTY.

BROKEN LAND PARKWAY IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA THREE-PHASE, FULLY-ACTUATED MODE. BROKEN LAND PARKWAY, MAINLINE OPERATES CONCURRENTLY. THE US 29 (SB) OFF-RAMP OPERATES ALONE. OPTICOM FIRE HOUSE PREEMPTION SHALL BE PROVIDED FOR ALL THREE LEGS OF THE INTERSECTION.

VIDEO CAMERA PROVIDES PRESENCE DETECTION FOR THE US 29 (SB) OFF-RAMP, AND NON-INVASIVE PROBES PROVIDE ADVANCE PASSAGE DETECTION ALONG BROKEN LAND PARKWAY.

III. SPECIAL NOTES:

THE EMERGENCY EQUIPMENT STATION (EES) CONTACT FOR THE FIRE HOUSE IS:

LIEUTENANT MARTIN P. LAPORE
LOGISTICS SECTION 4th FLOOR
6751 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046
PHONE (410) 313- 6033
FAX (410) 313- 6099

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING LIEUTENANT LAPORE THREE (3) DAYS PRIOR TO THE INSTALLATION OF THE OPTICOM FIRE PREEMPTION EQUIPMENT.

IV. PROJECT CONTACTS:

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

MR. JOHN CONCANNON, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 624-8140/ 8141

MR. JOHN HUCHROWSKI, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (301) 624-8200/ 8201

MS. SUSAN PALMER, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 624-8105/ 8106

MS. ANDREA ABEND, UTILITY ENGINEER
PHONE: (301) 624-8115/ 8116

MR. RICHARD DAFF, SR., CHIEF-TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. EDWARD RODENHIZER, CHIEF - SIGNAL SHOP
PHONE: (410) 787-7652

MR. SONNY BAILEY, CHIEF - SIGN SHDP
PHONE: (410) 787-7676

THE POWER COMPANY REPRESENTATIVE IS:

BALTIMORE GAS AND ELECTRIC
1068 NORTH FRONT STREET
BALTIMORE, MARYLAND 21202
(410) 637-8713

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE STANDARD PLATES FOR TRAFFIC CONTROL FROM SECTION MD 104 OF THE SHA BOOK OF STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES.

EQUIPMENT LIST 'A'

A. NO EQUIPMENT WILL BE SUPPLIED BY THE ADMINISTRATION.

EQUIPMENT LIST 'B'

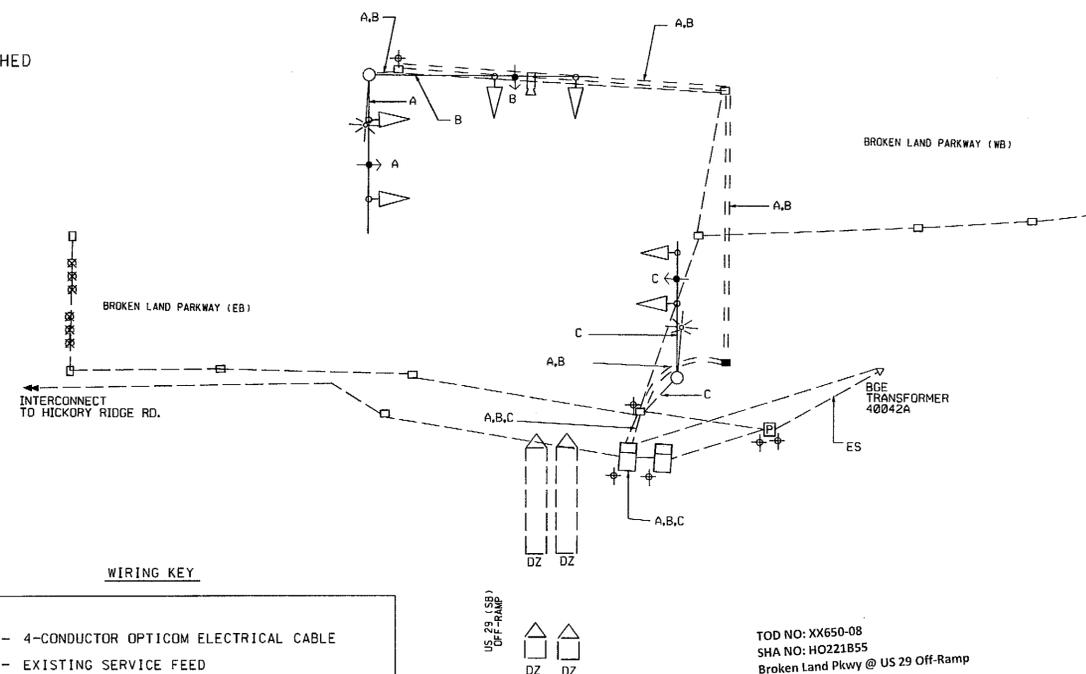
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	1 CY	TEST PIT EXCAVATION
8005	1 EA	ADJUST EXISTING HANDHOLE TO GRADE W/ NEW FRAME AND COVER
8032	640 LF	4-CONDUCTOR OPTICOM CABLE
8036	85 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4" - BORED
8038	110 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4" - TRENCHED
8046	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8047	1 EA	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764
8049	3 EA	OPTICOM NO. 721 DETECTOR EYE

PHASE CHART

	1	2	3	4	5	6	
	(R)	(R)	(R)	(R)	(R)	(R)	
	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	
	(G)	(G)	(G)	(G)	(G)	(G)	
Phase 2 & 6	G	G	G	G	R	R	←
2 & 6 Change	Y	Y	Y	Y	R	R	→
Phase 4	R	R	R	R	G	G	↑
4 Change	R	R	R	R	Y	Y	↓
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	↔
FIRE PREEMPTION - A	G	G	G	G	R	R	←
CLEARANCE	Y	Y	Y	Y	R	R	→
FIRE PREEMPTION - B	R	R	R	R	G	G	↑
CLEARANCE	R	R	R	R	Y	Y	↓

WIRING DIAGRAM



WIRING KEY

- A,B,C - 4-CONDUCTOR OPTICOM ELECTRICAL CABLE
- ES - EXISTING SERVICE FEED
- DZ - DETECTION ZONE
- ⊕ - GROUND ROD (3/4" DIA. x 10' LENGTH)

TOD NO: XX650-08
SHA NO: HO221B55
Broken Land Pkwy @ US 29 Off-Ramp

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

BROKEN LAND PARKWAY AT US 29 (SB) OFF-RAMP
COLUMBIA, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE ADVERTISED DATE NOV. 1, 2011 CONTRACT NO. XX6505185

DESIGNED BY EMM COUNTY HOWARD
DRAWN BY EMM LOGMILE 13CBRO 00.95
CHECKED BY MR/NR TMS NO. K915
F.A.P. NO. TOD NO.

TS NO. 2510 C DRAWING SG-02 OF 2 SHEET NO. 2 OF 2

CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

REVISION 'C' PROJECT NO. 101195.46

BY: emilesky