

**PROJECT DESCRIPTION**

**GENERAL**

THIS PROJECT INVOLVES THE INSTALLATION OF HAZARD IDENTIFICATION BEACONS (HIB) ALONG ICC RAMPS ES/WS PRIOR TO THE FAIRLAND ROAD INTERSECTION AND THE MERGE WITH US 29 IN MONTGOMERY COUNTY, DUE TO RESTRICTED SIGHT DISTANCE WHEN APPROACHING THE SIGNALIZED INTERSECTION.

ICC (MD 200) IS CONSIDERED TO RUN IN A EAST-WEST DIRECTION.

**INTERSECTION OPERATION**

THE HIB WILL OPERATE IN COORDINATION WITH THE SIGNAL AT US 29 AND FAIRLAND ROAD WITH FLASHING YELLOW BEACONS ON RAMPS ES/WS.

**CONTROLLER REQUIREMENTS**

THE HIB WILL CONTAIN A POLE MOUNTED CABINET AND CONTROLLER, SIGNAL HEADS, SIGNS, POWER SERVICE AND INTERCONNECT.

**SPECIAL NOTES**

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY 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 WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
2. CONTRACTOR SHALL USE CAUTION WHEN INSTALLING SIGNAL EQUIPMENT TO AVOID DISTURBANCE OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL TEST PIT TO DETERMINE EXACT LOCATION AND DEPTH OF UNDERGROUND UTILITIES PRIOR TO INSTALLING SIGNAL EQUIPMENT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES, EXCLUDING INTERCONNECT, TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE.
4. SPLICING OF INTERCONNECT CABLE SHALL BE PERFORMED BY MONTGOMERY COUNTY FORCES. THE CONTRACTOR SHALL RUN THE INTERCONNECT CABLE INTO THE BASE OF EACH CABINET AND PROPERLY TAG THE CABLE. ALL CONTROLLER CABINET WIRING WILL BE PERFORMED BY MONTGOMERY COUNTY FORCES. CONTACT KAMAL HAMUD AT (240) 777-8761 SEVENTY-TWO HOURS IN ADVANCE OF INTENDED WORK.
4. THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

MS. ANYESHA MOOKHERJEE, ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (301) 513-7498

MR. VICTOR GRAFTON, ASSISTANT DISTRICT ENGINEER - UTILITY  
PHONE: (301) 513-7315

MR. VERNON STINNETT, ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (301) 513-7304

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

THE POWER COMPANY REPRESENTATIVE IS:  
MR. STEVE CUSTER  
POTOMAC ELECTRIC POWER COMPANY  
8300 OLD MARLBORO PIKE  
UPPER MARLBORO, MARYLAND 20772  
PHONE: (301) 548-4333

MR. KAMAL HAMUD  
MONTGOMERY COUNTY DPWT  
PHONE: (240) 777-8761

MR. KEITH LORD  
MONTGOMERY COUNTY  
PHONE: (301) 279-1291

MR. EUGENE BAILEY  
SIGN SHOP  
PHONE: (410) 787-7676

**EQUIPMENT LIST**

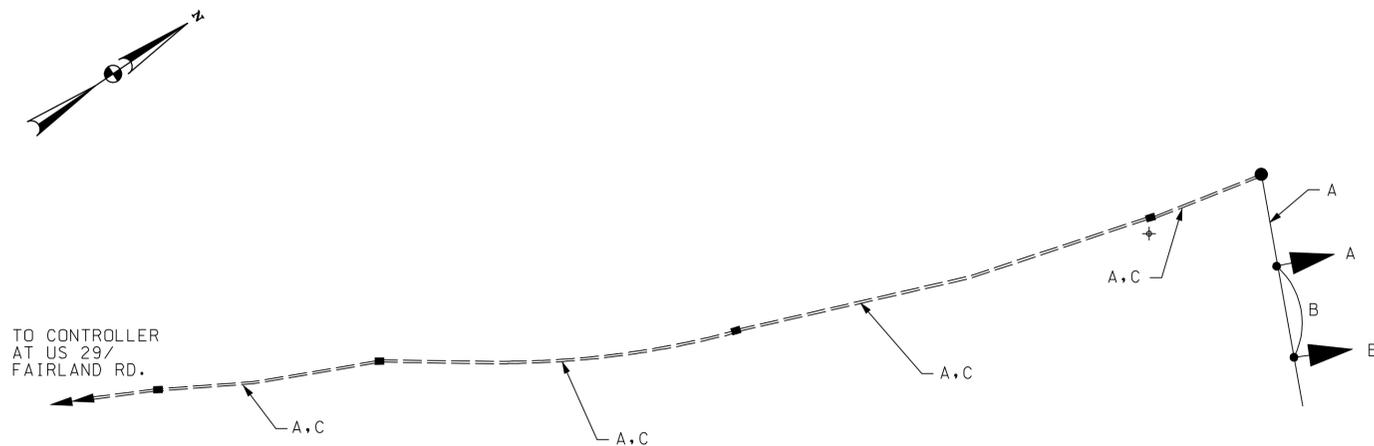
A. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	1
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	3
801605	SHEET ALUMINUM SIGN	SF	69
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	700
805135	3 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	700
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	3
818041	STEEL POLE WITH WITH A SINGLE 60 FOOT MAST ARM	EA	1
837001	GROUND ROD - 3/4 INCH DIA. X 10 FOOT LENGTH	EA	1
860284	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	2
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	800

**HIB PHASE CHART  
(US 29/FAIRLAND RD. SIGNAL PHASING)**

	1	2	
	(Y)	(Y)	
PHASE 1 AND 6	FL/Y	FL/Y	
PHASE 1 AND 6 CHANGE	FL/Y	FL/Y	
PHASE 2 AND 6	DARK	DARK	
HIB CHANGE	FL/Y	FL/Y	
PHASE 2 AND 6 CHANGE	FL/Y	FL/Y	
PHASE 3	FL/Y	FL/Y	
PHASE 3 CHANGE	FL/Y	FL/Y	
PHASE 4	FL/Y	FL/Y	
PHASE 4 CHANGE	FL/Y	FL/Y	
FLASHING OPERATION	FL/Y	FL/Y	

**HIB WIRING DIAGRAM**



**KEY**

- A } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- B } 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
- + } GROUND ROD

3 01810 - UPDATED CONTACTS

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 200 (ICC) RAMP @ N FAIRLAND ROAD  
RAMPS "WS" & "ES" HIB INSTALLATION  
MD 200 (ICC)-CONTRACT C  
WEST OF US 29 TO EAST OF I-95  
AREA "W"

**TRAFFIC SIGNAL-GENERAL INFORMATION**

SCALE NTS ADVERTISED DATE 09/28/2009 CONTRACT NO. AT3765C60

DESIGNED BY JRS COUNTY MONTGOMERY  
DRAWN BY JRS LOGMILE \_\_\_\_\_  
CHECKED BY DSU TMS NO. J855  
F.A.P. NO. AC-NH-ICC-1(t)N TOD NO. \_\_\_\_\_

TS NO. 4730 DRAWING **SG-7.3** OF 03 SHEET NO. 18 OF 31

ICC3  
NOV 08 2010  
Release for Construction

BY: jholloway -