

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF AN ADVANCED HAZARD IDENTIFICATION BEACON ON THE US 301 NORTHBOUND OFF-RAMP TO MD 213 NORTHBOUND FOR THE INTERSECTION OF MD 213 (CENTREVILLE ROAD) AND US 301 SOUTHBOUND OFF-RAMP. THE INTERSECTION IS LOCATED IN QUEEN ANNE'S COUNTY, MARYLAND. MD 213 (CENTREVILLE ROAD) IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE MD 213 AND US 301 SOUTHBOUND RAMPS INTERSECTION OPERATION WILL REMAIN THE SAME. THE ADVANCE HAZARD IDENTIFICATION BEACON (HIB) WILL OPERATED THROUGH THE EXISTING CONTROLLER AND WILL BE ACTIVATED WHEN THE TRAFFIC SIGNALS ALONG MD 213 NORTHBOUND AND SOUTHBOUND CHANGE TO YELLOW. THE HIB WILL CONTINUALLY FLASH WHEN THE TRAFFIC SIGNAL ALONG MD 213 NORTHBOUND AND SOUTHBOUND IS RED. ONCE THE TRAFFIC SIGNALS CHANGE TO GREEN, THE HIB WILL BE DARK AND NOT FLASH.

CONTROLLER REQUIREMENTS

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9000	1 EACH	TWO CIRCUIT FLASHER
9571	26 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 1 EACH R3-1 (30 IN. x 30 IN.) - MAST ARM MOUNT - 1 EACH W3-3 BLK/FY (36 IN. x 36 IN.) - POLE MOUNT - 1 EACH W16-13 MOD BLK/FY (48 IN. x 30 IN.) - POLE MOUNT

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	1 C.Y.	TEST PIT EXCAVATION
8001	2 EACH	12 INCH LED SIGNAL HEAD
8009	1 EACH	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8023	1 EACH	REMOVE & DISPOSE OF EQUIPMENT
8036	70 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8038	840 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8040	26 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8042	1325 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8046	6 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8055	1400 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. JEFFREY WENTZ
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 810-3240

MR. BARRY CLOTHIER
DISTRICT UTILITY ENGINEER
PHONE: (410) 810-3275

MR. MIKE LEWIS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 810-3250

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

MR. EDWARD RODENHIZER
MANAGER, SIGNAL OPERATIONS
PHONE: (410) 787-7652

MR. SONNY BAILEY
MANAGER, SIGN OPERATIONS
PHONE: (410) 787-7678

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

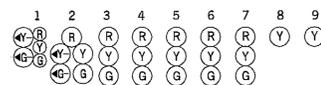
NO EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

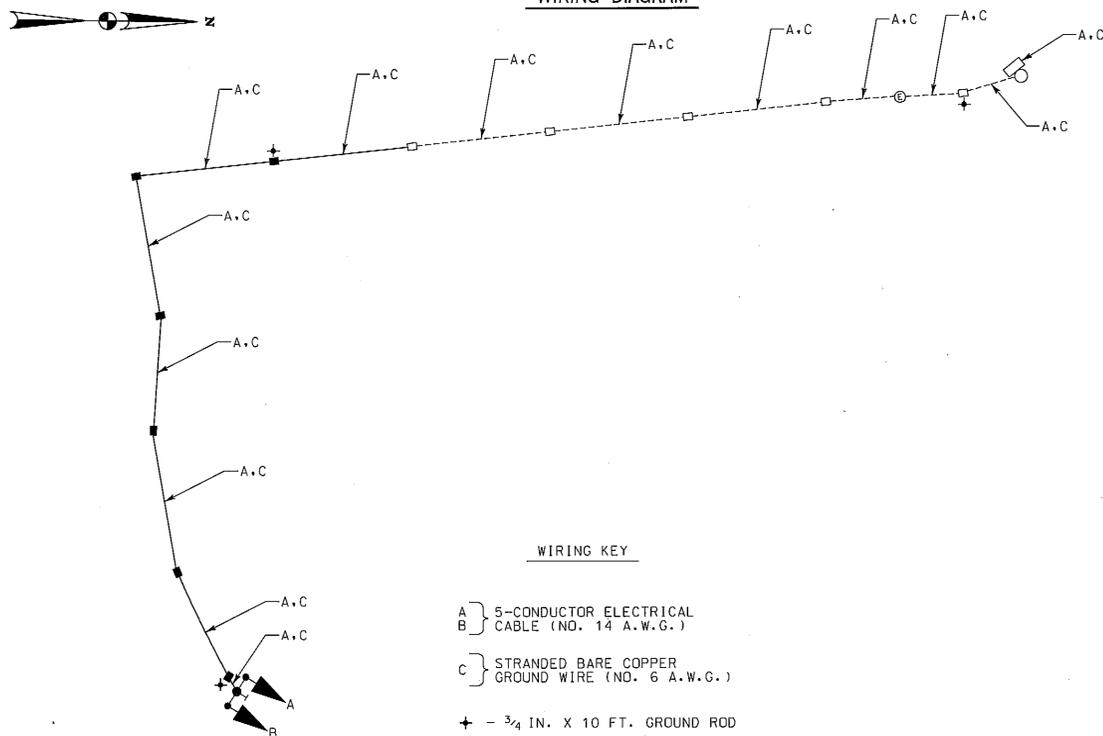
- STANDARD NO. MD-104.05-01 (SHOULDER WORK)
- STANDARD NO. MD-104.03-01 (SHOULDER WORK)
- STANDARD NO. MD-104.05-18 (PARTIAL RAMP CLOSURE)

PHASE CHART



PHASE	1	2	3	4	5	6	7	8	9
PHASE 1 AND 6	G	G	G	R	R	R	R	DARK	DARK
1 AND 6 CHANGE	G	G	G	R	R	R	R	DARK	DARK
PHASE 2 AND 6	G	G	G	G	G	R	R	DARK	DARK
2 AND 6 CHANGE	Y	Y	Y	Y	Y	R	R	FLY	FLY
PHASE 4	R	R	R	R	R	G	G	FLY	FLY
4 CHANGE	R	R	R	R	R	Y	Y	DARK	DARK
FLASHING OPERATION	FLY	DARK	DARK						

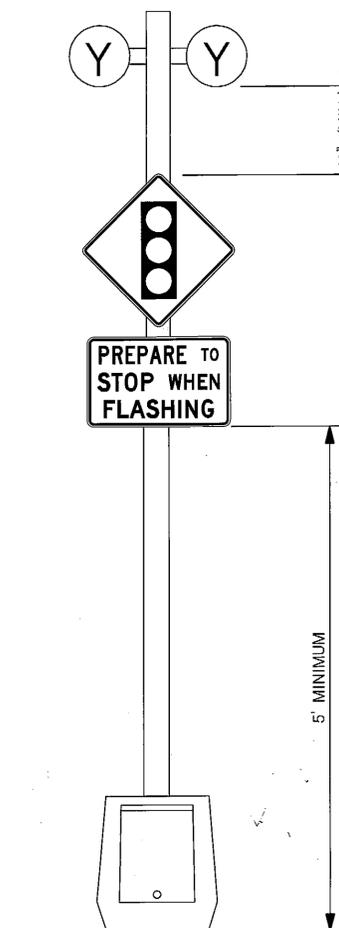
WIRING DIAGRAM



WIRING KEY

- A } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- C } 3/4 IN. X 10 FT. GROUND ROD

INSTALLATION DETAIL
NOT TO SCALE



TOD NO: XX661-08
SHA NO: QA203851
MD 213 @ NB US 301 Off-Ramp

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 213 INTERCHANGE AND US 301 NORTH
RAMP, US 301 SOUTHBOUND RAMP
(CENTREVILLE, MD)

GENERAL INFORMATION SHEET

SCALE	NONE	DATE	SEPTEMBER 27, 2011	CONTRACT NO.	XX6615185
DESIGNED BY	J. RASMUSSEN	COUNTY	QUEEN ANNE'S		
DRAWN BY	J. RASMUSSEN	LOGMILE	17021905.32		
CHECKED BY	N. LEARY	TIMS NO.	K937		
F.A.P. NO.		TOD NO.			
TS NO.	3438D	DRAWING	TSP-03 OF 3	SHEET NO.	3 OF 3

WR&A
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