

NOTE: LOCATE ONE (1) HANDHOLE WITHIN THIS BREAK.

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MD 404 (SHORE HIGHWAY)

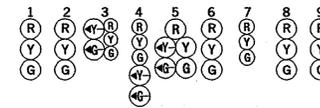
MD 404 (SHORE HIGHWAY)

NOTE: REMOVE SIGNAL HEAD AND ASSOCIATED CABLE

MD 313 (FEDERALSBURG HIGHWAY)

POLE# 402/58/13

PHASING SEQUENCE CHART



PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	←
2 AND 6 CHANGE	TO PHASE 2 AND 5						R	R	R	←
PHASE 2 AND 5	R	R	+GG	G	G	R	R	R	R	←
2 AND 5 CHANGE	R	R	+YY	Y	Y	R	R	R	R	←
PHASE 8	R	R	R	R	R	G	G	G	G	↑
8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	↑
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FL/R	FL/R	FL/R	FL/R	↑

PROJECT DESCRIPTION

1. GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE TRAFFIC SIGNAL AT THE INTERSECTION MD 404 (SHORE HIGHWAY) AND MD 313 (FEDERALSBURG HIGHWAY) IN CAROLINE COUNTY.

THE INTERSECTION IS BEING RECONSTRUCTED TO PROVIDE A NEW RIGHT TURN BY-PASS LANE AT THE MD 313 APPROACH. MD 404 IS ALSO BEING WIDENED TO PROVIDE A DEDICATED LEFT TURN AND A THRU LANE AT THE WESTBOUND APPROACH. ALL TURNS WILL BE CHANNELIZED.

AN EXCLUSIVE/PERMISSIVE LAG PHASE WILL BE PROVIDED FOR THE WESTBOUND LEFT TURN MOVEMENTS. VIDEO DETECTION WILL BE INSTALLED FOR THE MD 313 APPROACH AND WESTBOUND LEFT-TURN MOVEMENTS.

MD 404 RUNS IN AN EAST-WEST DIRECTION.

2. INTERSECTION OPERATION

NORMAL OPERATION

THE TRAFFIC SIGNAL CURRENTLY OPERATES IN A NEMA THREE-PHASE FULL TRAFFIC ACTUATED MODE.

THE TRAFFIC SIGNAL WILL OPERATE IN A NEMA FOUR-PHASE FULL TRAFFIC ACTUATED MODE. THE WESTBOUND LEFT TURN MOVEMENT WILL BE PROVIDED WITH AN EXCLUSIVE/PERMISSIVE LAG PHASE.

3. CONTROLLER INFORMATION

THE EXISTING CONTROLLER AT THE INTERSECTION WILL BE REPLACED WITH A NEMA-EIGHT PHASE FULLY ACTUATED TRAFFIC SIGNAL CONTROLLER WITH ALL NECESSARY EQUIPMENT HOUSED IN A BASE MOUNTED CABINET.

PROJECT CONTACTS

- MR. RICHARD K. LINDSAY
DISTRICT ENGINEER
PHONE: 410-810-3210
- MR. BARRY CLOTHIER
DISTRICT UTILITY ENGINEER
PHONE: 410-810-3275
- MR. ROBERT L. KIEL
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: 410-810-3240
- MR. EDWARD RODENHIZER
CHIEF, SIGNAL OPERATIONS SECTION
PHONE: 410-787-7652
- MR. TERRY O. WRIGHT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: 410-810-3250
- MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
PHONE: 410-787-7631

EQUIPMENT LIST "B"

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

CAT. CODE	QUANTITY	DESCRIPTION
585624	51 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
860292	1 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE

WIRING KEY

- Q) CAMERA W/500' LEAD-IN TO CONTROLLER
- B) 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- A, C, D, G, H) 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- J, K) MICROPROBE LEAD W/ 1000 FT LEAD-IN TO CONTROLLER
- L) MICROPROBE LEAD W/ 500 FT LEAD-IN TO CONTROLLER
- O) 2 WIRE 1 CONDUCTOR CABLE FOR SERVICE (NO. 4 AWG)

WIRING KEY (CONT'D)

- M) 2 CONDUCTOR (NO. 12 AWG) (TRAY CABLE, TYPE THHN) FOR LUMINAIRE
- P) STRANDED BARE COPPER GROUND (NO. 6 AWG)
- ML - MICROPROBE LOOP
- PS - PROPOSED POWER SERVICE FEED
- PT - PROPOSED TELEPHONE DROP
- + - 3/4" X 10 FT GROUND ROD

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 404 AT MD 313
SIGNAL RECONSTRUCTION

GENERAL INFORMATION - ULTIMATE

SCALE NOT TO SCALE DATE 09/06/07 CONTRACT NO. C05885187

DESIGNED BY H. DONG COUNTY CAROLINE
DRAWN BY A. POWELL LOGMILE 05040413.30
CHECKED BY CSW TMS NO. H442
F.A.P. NO. AC-NH-300-1(43)E TOD NO.

TS NO. 3078 529 DRAWING TS - 1 OF 1 SHEET NO. 5 OF 9

Edwards AND Kelcey
100 South Charles Street
Tower 2, Suite 1000
Baltimore, Maryland 21201
410-837-5840

BY: henryad