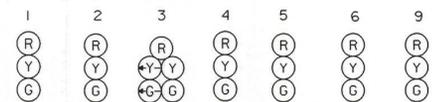




PHASE CHART

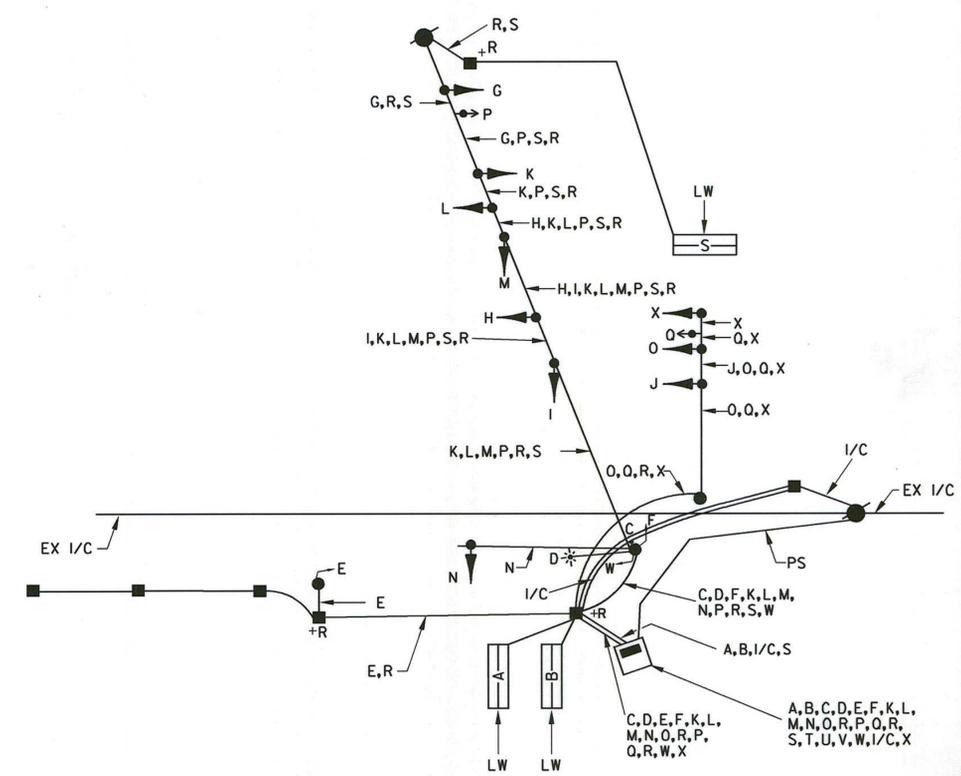


PHASE 1 + 6	R	R	G	G	R	R	R	
1 + 6 CHANGE	R	R	G	G	R	R	R	
PHASE 2 + 6	G	G	G	G	R	R	R	
2 + 6 CHANGE	Y	Y	Y	Y	R	R	R	
PHASE 4	R	R	R	R	G	G	G	
4 CHANGE	R	R	R	R	Y	Y	Y	
FLASHING	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	
OPERATION								

PRE-EMPTION PHASES

PE NO. 1	R	R	G	G	R	R	R	
PE NO. 1 CHANGE	R	R	Y	Y	R	R	R	
PE NO. 2	G	G	G	G	R	R	R	
PE NO. 2 CHANGE	Y	Y	Y	Y	R	R	R	

WIRING DIAGRAM



WIRING KEY

- A,B,S } 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)
- C } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D } 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
- W,E,F } 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- T,U,V } 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- G,H,I,J } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- K,L,M,N,O,X } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- P,Q } 4-CONDUCTOR OPTICOM DETECTOR CABLE (NO. 20 A.W.G.)
- R } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- LW - LOOP WIRE (NO. 14 A.W.G.)
- PS - PROPOSED UNDERGROUND SERVICE
- + - 3/4 IN. x 10 FT. GROUND ROD
- EX I/C - EXISTING 12 PAIR COMMUNICATION CABLE, SELF SUPPORTING
- I/C - EXISTING 12 PAIR COMMUNICATION CABLE, SELF SUPPORTING, REQUESTED FROM EXISTING CONTROLLER CABINET

PROJECT DESCRIPTION

GENERAL:
THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING INTERSECTION TRAFFIC SIGNAL AND STREET LIGHTING AT MD 235 AND EXPLORATION PARK DR. IN ST. MARY'S COUNTY. MD 235 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION:
1. NORMAL OPERATION
THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, SEMI-TRAFFIC ACTUATED MODE, WITH THE MD 235 APPROACHES RUNNING CONCURRENTLY. EXCLUSIVE/PERMISSIVE LEFT TURN PHASING WILL BE PROVIDED FOR THE MD 235 NORTH BOUND APPROACH.

2. SPECIAL OPERATION
THE INTERSECTION WILL OPERATE AS INDICATED ABOVE UNLESS THE OPTICOM DEVICE IS ACTIVATED WHICH WILL PRE-EMPT THE TRAFFIC SIGNAL AND STOP THE EB APPROACH OF EXPLORATION PARK DR AND EITHER THE NB OR SB APPROACHES ON MD 235.

CONTROLLER REQUIREMENTS:
INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH FOUR (4) FOUR-CHANNEL, TIME DELAY OUTPUT LOOP DETECTOR AMPLIFIERS, INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP, TELEMETRY MODULE, ISOLATION BOARD AND SPECIAL RELAY HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

MR. PAUL ARMSTRONG
DISTRICT ENGINEER
PHONE: 410-841-5450

MR. LAWRENCE E. ELLIOTT
ACTING ASSISTANT
DISTRICT ENGINEER - TRAFFIC
PHONE: 410-841-5450

MR. JOHN MAYS
UTILITY ENGINEER
PHONE: 410-841-5450

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

THE POWER COMPANY REPRESENTATIVE IS:
SOUTHERN MARYLAND ELECTRIC COOPERATIVE (SMECO)
PO BOX 1937
HUGHESVILLE, MD 20637-1937
301-274-3111

4 THIS SHEET NO. 163A REPLACES SHEET NO. 163

PHASE I
TEMPORARY SIGNAL PLAN SS-19A

MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

LOG MILE # 18023513.13

MD 235 @ EXPLORATION PARK DRIVE
SIGNAL PLAN

COUNTY: ST. MARY'S

DRAWN BY: DED/SMH
DES. BY: DK/DLA/SMH
CHK. BY: BJH

DATE: APRIL, 2000
SCALE: N.T.S.

F.A.P. NO. SEE TITLE SHEET
S.H.A. NO. SEE TITLE SHEET

TS/STD. NO.: 3787A-X1-G11
SHEET NO. 163A OF 241

REVISIONS:	APPROVALS:
	CHEF SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER TRAFFIC
	CHEF TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR OFFICE OF TRAFFIC & SAFETY

REDLINE REVISION NO. 4
ADDED SHEET
SHA No. SM7685270 12/7/2000

Nov. 1, 1998
Reconstruct Dues To New
Geometrics. SHA No. SM7685270