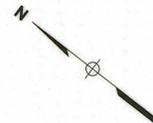


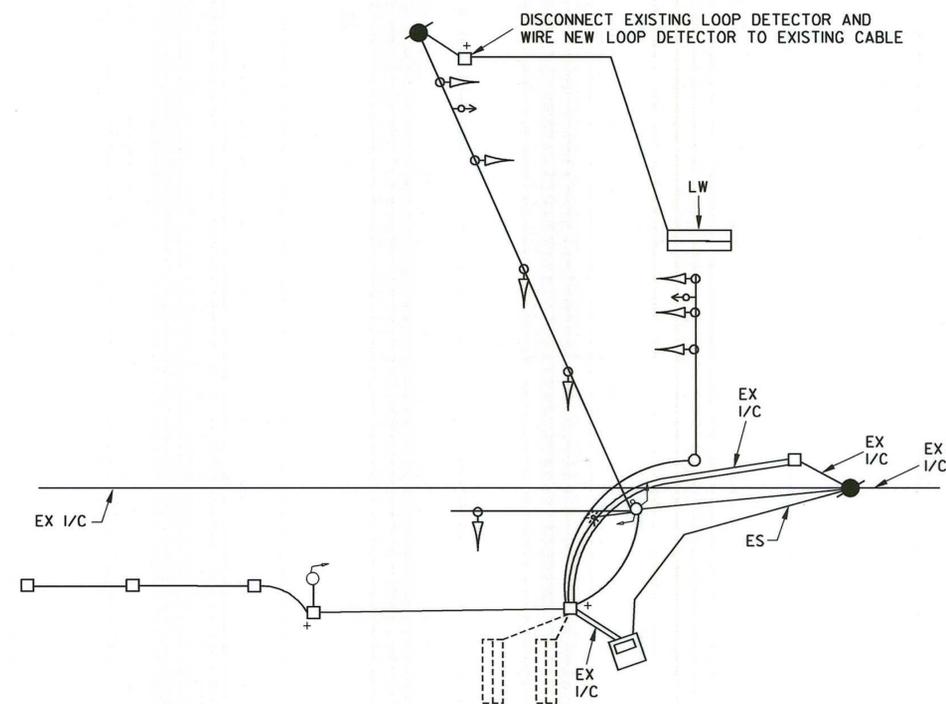
F H W A REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD	SEE TITLE SHEET		



PHASE CHART

	1	2	3	4	5	6	9	
	(R)							
	(Y)							
	(G)							
PHASE 1 + 6	R	R	G	G	R	R	R	←
1 + 6 CHANGE	R	R	←	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	←
PRE-EMPTION 1	R	R	←	G	R	R	R	←
PRE-EMPTION 2	G	G	←	G	R	R	R	←
FLASHING	Y	Y	Y	Y	R	R	R	←
OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	←

WIRING DIAGRAM



WIRING KEY

- ES - EXISTING SERVICE
- LW - LOOP WIRE (NO. 14 A.W.G.)
- EX I/C - EXISTING INTERCONNECT (12 PAIR COMMUNICATION CABLE, SELF SUPPORTING)
- + - 3/4 IN. x 10 FT. GROUND ROD

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:

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

THIS SHEET NO. 166A
REPLACES SHEET NO. 166

PHASE 2
TEMPORARY TRAFFIC SIGNAL

SS-22A

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

LOG MILE # 18023513.13

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

MD 235 @ EXPLORATION PARK DRIVE
SIGNAL PLAN

COUNTY: ST. MARY'S

DATE: APRIL, 2000 F.A.P. NO. SEE TITLE SHEET
SCALE: N.T.S. S.H.A. NO. SEE TITLE SHEET

TS/STD. NO.: 3787A-X2-G11
SHEET NO. 166A OF 241

RK & K
RUMMEL, KLEPPER & KAHL, LLP
CONSULTING ENGINEERS
81 MOSHER STREET
BALTIMORE, MARYLAND 21217
TEL: 410-728-2900 FAX: 410-728-3160

REVISIONS:	APPROVALS:
	CHIEF SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER - TRAFFIC
	CHIEF 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 Dup. to New
Geometrics. SHA No.: SM7685270