DRILL HOLES

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MD 235 IS ASSUMED TO RUNS IN A NORTH-SOUTH DIRECTION.

PROJECT DESCRIPTION

I. GENERAL

THIS PORTION OF THE PROJECT INVOLVES INSTALLING A SIDE STREET SPLIT ON MD 246. MD 235 RUNS IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION IS EQUIPPED WITH A EIGHT PHASE FULLY TRAFFIC ACTUATED CONTROLLER WITH SIX (6) FOUR CHANNEL RACK MOUNTED LOOP DETECTOR AMPLIFERS, TELEMERY MODULE, INTERSECTION MONITOR WITH BATTERY BACKUP AND TWO CIRCUIT FLASHER UNIT WITH RELAY PACKAGE HOUSED IN A NEMA SIZE SIX (6) BASE MOUNTED CABINET. THE TRAFFIC SIGNAL WILL OPERATE IN A NEMA SIX (6) PHASE FULLY ACTUATED MODE WITH MD 235 (THE NORTHBOUND AND SOUTHBOUND APPROACHES) OPERATING WITH AN EXCLUSIVE LEFT TURN PHASE. MD 246 (THE EASTBOUND AND WESTBOUND APPROACHES) WILL OPERATE AS A SIDE STREET SPLIT.

EQUIPMENT LISTS

A. EQUIPMENT TO BE FURNISHED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
	1 EACH	12" SIGNAL HEAD SECTION, MAST ARM MOUNTED HARDWARE
	3 EACH	8" SIGNAL HEAD SECTION, MAST ARM MOUNTED HARDWARE

B. EQUIPMENT TO BE FURNISHED AND/ OR INSTALLED BY SHA SIGNAL SHOP PERSONNEL

ITEM NO.	QUANTITY	DESCRIPTION
8001	1 EACH	INSTALL SIGNAL HEAD
8002	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT

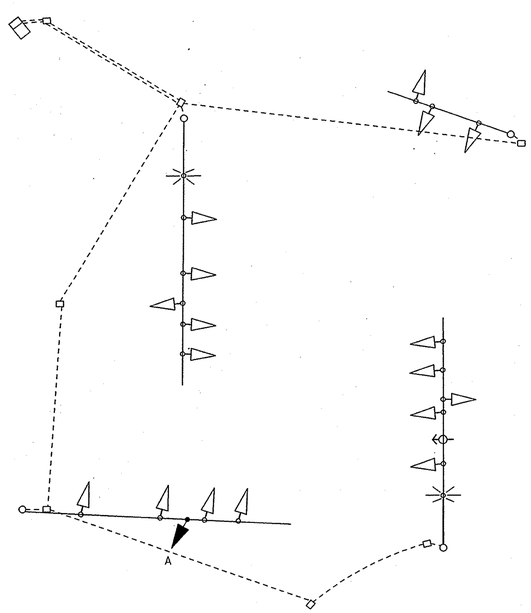
C. EQUIPMENT TO BE REMOVED AND RETURNED TO THE SHA

ITEM NO.	QUANTITY	DESCRIPTION

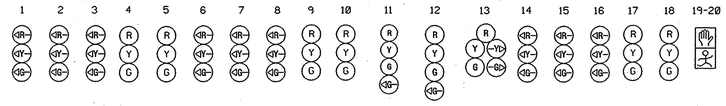
ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE SHA

WIRING DIAGRAM

A = USE EXISTING CABLE (NO. 14 AWG)



PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19-20
PHASE 1 & 5	◄G-	◄G-	◄G-	R	R	◄G-	◄G-	◄G-	R	R	R	R	R-G►	◄R-	◄R-	◄R-	R	R	DW
1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6																		
PHASE 1 & 6	◄R-	◄R-	◄R-	R	R	◄G-	◄G-	◄G-	G	G	R	R	R-G►	◄R-	◄R-	◄R-	R	R	DW
1 CHANGE	◄R-	◄R-	◄R-	R	R	◄Y-	◄Y-	◄Y-	G	G	R	R	R-Y►	◄R-	◄R-	◄R-	R	R	DW
PHASE 2 & 5	◄G-	◄G-	◄G-	G	G	◄R-	◄R-	◄R-	R	R	R	R	R	◄R-	◄R-	◄R-	R	R	WK
5 CHANGE	◄Y-	◄Y-	◄Y-	G	G	◄R-	◄R-	◄R-	R	R	R	R	R	◄R-	◄R-	◄R-	R	R	WK
PHASE 2 & 6	◄R-	◄R-	◄R-	G	G	◄R-	◄R-	◄R-	G	G	R	R	R	◄R-	◄R-	◄R-	R	R	WK
PED. CLEAR	◄R-	◄R-	◄R-	G	G	◄R-	◄R-	◄R-	G	G	R	R	R	◄R-	◄R-	◄R-	R	R	FL/DW
2 & 6 CHANGE	◄R-	◄R-	◄R-	Y	Y	◄R-	◄R-	◄R-	Y	Y	R	R	R	◄R-	◄R-	◄R-	R	R	DW
PHASE 3	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	◄R-	R	R	◄G- G	◄G- G	G	◄R-	◄R-	◄R-	R	R	DW
3 CHANGE	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	◄R-	R	R	Y	Y	Y	◄R-	◄R-	◄R-	R	R	DW
PHASE 4	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	◄R-	R	R	R	R	R	◄G-	◄G-	◄G-	G	G	DW
4 CHANGE	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	◄R-	R	R	R	R	R	◄Y-	◄Y-	◄Y-	Y	Y	DW
FLASHING OPERATION	FL/RA	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/RA	FL/RA	FL/RA	FL/R	FL/R	DARK

FIRE HOUSE PRE-EMPTION #1 - MD 235 S/B

FIREHOUSE PRE-EMPTION PHASE 2 & 5 (#1)	◄G-	◄G-	◄G-	G	G	◄R-	◄R-	◄R-	R	R	R	R	R	◄R-	◄R-	◄R-	R	R	DW
PRE-EMPTION CLEARANCE	◄Y-	◄Y-	◄Y-	G	G	◄R-	◄R-	◄R-	R	R	R	R	R	◄R-	◄R-	◄R-	R	R	DW
PHASE 2 & 6 NORMAL OPERATION	◄R-	◄R-	◄R-	G	G	◄R-	◄R-	◄R-	G	G	R	R	R	◄R-	◄R-	◄R-	R	R	WK

FIRE HOUSE PRE-EMPTION #2 - MD 246 E/B

FIREHOUSE PRE-EMPTION PHASE 3 (#2)	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	◄R-	R	R	◄G- G	◄G- G	G	◄R-	◄R-	◄R-	R	R	DW
PRE-EMPTION CLEARANCE	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	◄R-	R	R	Y	Y	Y	◄R-	◄R-	◄R-	R	R	DW
PHASE 2 & 6 NORMAL OPERATION	◄R-	◄R-	◄R-	G	G	◄R-	◄R-	◄R-	G	G	R	R	R	◄R-	◄R-	◄R-	R	R	WK

REDLINE REVISION NO. 1
TEDD APPROVAL: JAH 12/2/05

PROJECT CONTACTS

THE PROJECT CONTACTS ARE AS FOLLOWS:

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CHIEF, SIGNAL OPERATIONS SECTION
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P.O. BOX 128
LEONARDTOWN, MARYLAND 20650
(301) 475-5631

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 235 (THREE NOTCH ROAD) AND MD 246 (GREAT MILLS ROAD) LEXINGTON PARK, MARYLAND

SCALE NONE DATE 10/2005 CONTRACT NO. SF-SIGNAL

DESIGNED BY: W. Malcolm
DRAWN BY: W. Malcolm
CHECKED BY:
F.A.P. NO.:

COUNTY: ST. MARY'S
LOGMILE: 18023511.00
TIMS: H242

DRAWING NO. 354F - OF

SHEET NO. 2 OF 2