DRILL HOLES

BORDER REV: DATE: June 1, 2004

PHASE CHART

MD 2 (GOV. RITCHIE HWY) AND HAMMONDS LANE / WALTON AVE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PHASE 1 & 5	DARK	DARK	◄G–/R	R	DARK	DARK	◄G–/R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6																				
PHASE 1 & 6	DARK	DARK	◄G–/G	G	DARK	DARK	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
1 & 6 CHANGE	DARK	DARK	◄Y–/G	G	DARK	DARK	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
PHASE 2 & 5	DARK	DARK	R	R	DARK	DARK	◄G–/G	G	R	R	R	R	WK	DW	DW	WK	DW	DW	DW	DW
2 & 5 CHANGE	DARK	DARK	R	R	DARK	DARK	◄Y–/G	G	R	R	R	R	WK	DW	DW	WK	DW	DW	DW	DW
PHASE 2 & 6	DARK	DARK	G	G	DARK	DARK	G	G	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEAR	DARK	DARK	G	G	DARK	DARK	G	G	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
2 & 6 CHANGE	DARK	DARK	Y	Y	DARK	DARK	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3	DARK	DARK	R	R	DARK	DARK	R	R	R	R	G/◄G–	G	DW	DW	DW	DW	DW	DW	DW	DW
3 CHANGE	DARK	DARK	R	R	DARK	DARK	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4	DARK	DARK	R	R	DARK	DARK	R	R	G/◄G–	G	R	R	DW	DW	DW	DW	DW	DW	DW	DW
4 CHANGE	DARK	DARK	R	R	DARK	DARK	R	R	Y	Y	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 ALT	DARK	DARK	R	R	DARK	DARK	R	R	R	R	G/◄G–	G	DW	DW	DW	DW	WK	DW	DW	WK
PED CLEAR	DARK	DARK	R	R	DARK	DARK	R	R	R	R	G/◄G–	G	DW	DW	DW	DW	FL/DW	DW	DW	FL/DW
3 ALT CHANGE	DARK	DARK	R	R	DARK	DARK	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	DARK	DARK	R	R	DARK	DARK	R	R	G/◄G–	G	R	R	DW	DW	DW	DW	DW	WK	WK	DW
PED CLEAR	DARK	DARK	R	R	DARK	DARK	R	R	G/◄G–	G	R	R	DW	DW	DW	DW	DW	FL/DW	FL/DW	DW
4 ALT CHANGE	DARK	DARK	R	R	DARK	DARK	R	R	Y	Y	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PRE EMPT 1	DARK	DARK	R	R	DARK	DARK	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PRE EMPT 1 CHANGE	DARK	DARK	R	R	DARK	DARK	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	DARK	DARK	FL/Y	FL/Y	DARK	DARK	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

NOTE: SIGNALS 1,2,5, AND 6 FLASH "Y" DURING NORMAL SCHOOL HOURS

PHASE CHART

MD 177 (MOUNTAIN RD) AND EDWIN RAYNOR RD

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 & 5	◄G–	◄G–	R	R	◄ –	◄G–	R	R	R	R	R	R	R	R
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6														
PHASE 1 & 6	◄G–	◄G–	G	G	◄R–	◄R–	R	R	R	R	R	R	R	R
1 & 6 CHANGE	◄Y–	◄Y–	G	G	◄R–	◄R–	R	R	R	R	R	R	R	R
PHASE 2 & 5	◄R–	◄R–	R	R	◄G–	◄G–	G	G	R	R	R	R	R	R
2 & 5 CHANGE	◄R–	◄R–	R	R	◄Y–	◄Y–	G	G	R	R	R	R	R	R
PHASE 2 & 6	◄R–	◄R–	G	G	◄R–	◄R–	G	G	R	R	R	R	R	R
2 & 6 CHANGE	◄R–	◄R–	Y	Y	◄R–	◄R–	Y	Y	R	R	R	R	R	R
PHASE 3 & 7	◄R–	◄R–	R	R	◄R–	◄R–	R	R	◄G–/R	◄G–/R	R	◄G–/R	◄G–/R	R
CHANGES TO PHASES 3 & 8, 4 & 7 OR 4 & 8														
PHASE 3 & 8	◄R–	◄R–	R	R	◄R–	◄R–	R	R	◄G–/G	◄G–/G	G	R	R	R
3 & 8 CHANGE	◄R–	◄R–	R	R	◄R–	◄R–	R	R	◄Y–/G	◄Y–/G	G	R	R	R
PHASE 4 & 7	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	R	◄G–/G	◄G–/G	G
4 & 7 CHANGE	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	R	◄Y–/G	◄Y–/G	G
PHASE 4 & 8	◄R–	◄R–	R	R	◄R–	◄R–	R	R	G	G	G	G	G	G
4 & 8 CHANGE	◄R–	◄R–	R	R	◄R–	◄R–	R	R	Y	Y	Y	Y	Y	Y
PRE EMPT 1	◄R–	◄R–	R	R	◄G–	◄G–	G	G	R	R	R	R	R	R
PRE EMPT 1 CHANGE	◄R–	◄R–	R	R	◄Y–	◄Y–	Y	Y	R	R	R	R	R	R
FLASHING OPERATION	FL/◄R–	FL/◄R–	FL/Y	FL/Y	FL/◄R–	FL/◄R–	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

PHASE CHART

MD 3 BUSINESS AND
GREEN BRANCH LN / WALMART ENT

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
PHASE 2 & 6	◄R–	◄R–	◄R–	R	R	◄G–	◄G–	G	G	R	R	R	R	WK	DW	DW	WK	DW	DW
2 & 6 CHANGE	◄R–	◄R–	◄R–	R	R	◄Y–	◄Y–	G	G	R	R	R	R	WK	DW	DW	WK	DW	DW
PHASE 2 & 5	◄R–	◄R–	◄R–	G	G	◄R–	◄R–	G	G	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLEAR	◄R–	◄R–	◄R–	G	G	◄R–	◄R–	G	G	R	R	R	R	FL/DW	WK	WK	FL/DW	DW	DW
2 & 5 CHANGE	◄R–	◄R–	◄R–	G	G	◄R–	◄R–	Y	Y	R	R	R	R	DW	WK	WK	DW	DW	DW
PHASE 1 & 5	◄G–	◄G–	◄G–	G	G	◄R–	◄R–	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW
PED CLEAR	◄G–	◄G–	◄G–	G	G	◄R–	◄R–	R	R	R	R	R	R	DW	FL/DW	FL/DW	DW	DW	DW
1 & 5 CHANGE	◄Y–	◄Y–	◄Y–	Y	Y	◄R–	◄R–	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3	◄R–	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	G/◄G–	G	DW	DW	DW	DW	DW	DW
3 CHANGE	◄R–	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4	◄R–	◄R–	◄R–	R	R	◄R–	◄R–	R	R	G/◄G–	G/◄G–	R	R	DW	DW	DW	DW	DW	DW
4 CHANGE	◄R–	◄R–	◄R–	R	R	◄R–	◄R–	R	R	Y	Y	R	R	DW	DW	DW	DW	DW	DW
PHASE 3 ALT	◄R–	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	G/◄G–	G	DW	DW	DW	DW	WK	WK
PED CLEAR	◄R–	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	G/◄G–	G	DW	DW	DW	DW	FL/DW	FL/DW
3 ALT CHANGE	◄R–	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW
PRE EMPT 1	◄R–	◄R–	◄R–	R	R	◄G–	◄G–	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW
PRE EMPT 1 CHANGE	◄R–	◄R–	◄R–	R	R	◄Y–	◄Y–	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/◄R–	FL/◄R–	FL/◄R–	FL/Y	FL/Y	FL/◄R–	FL/◄R–	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

NOTE: SPECIAL LEAD / LAG PHASING

PHASE CHART

BUS MD 3 AND HOSPITAL DR
BUS MD 3 AND MAYO RD

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
PHASE 1	◄R–	◄R–	G	G	G	G	◄R–	◄R–	G	G	◄R–	◄R–	G	G	R	R	R	R	R	R	WK	WK
1 CHANGE	◄R–	◄R–	Y	Y	G	G	◄R–	◄R–	G	G	◄R–	◄R–	G	G	R	R	R	R	R	R	WK	WK
PHASE 2	◄R–	◄R–	R	R	G	G	◄R–	◄R–	G	G	◄R–	◄R–	G	G	R	R	R	R	R	R	WK	WK
2 CHANGE	◄R–	◄R–	R	R	Y	Y	◄R–	◄R–	G	G	◄R–	◄R–	G	G	R	R	R	R	R	R	WK	WK
PHASE 3	◄R–	◄R–	R	R	R	R	◄G–	◄G–	G	G	◄G–	◄G–	G	G	R	R	R	R	R	R	WK	WK
3 CHANGE	◄R–	◄R–	R	R	R	R	◄Y–	◄Y–	Y	Y	◄G–	◄G–	G	G	R	R	R	R	R	R	WK	WK
PHASE 4	◄R–	◄R–	R	R	R	R	◄R–	◄R–	R	R	◄G–	◄G–	G	G	R	R	G/◄G–	G	G	G	WK	WK
PED CLEAR	◄R–	◄R–	R	R	R	R	◄R–	◄R–	R	R	◄G–	◄G–	G	G	R	R	G/◄G–	G	Y	Y	FL/DW	FL/DW
4 CHANGE	◄R–	◄R–	R	R	R	R	◄R–	◄R–	R	R	◄Y–	◄Y–	Y	Y	R	R	G/◄G–	G	R	R	DW	DW
PHASE 5	◄R–	◄R–	R	R	R	R	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	G/◄G–	G	R	R	DW	DW
5 CHANGE	◄R–	◄R–	R	R	R	R	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	Y	Y	R	R	DW	DW
PHASE 6	◄R–	◄R–	R	R	G	G	◄R–	◄R–	G	G	◄R–	◄R–	R	R/–G►	G/◄G–	G	R	R	R	R	DW	DW
6 CHANGE	◄R–	◄R–	R	R	G	G	◄R–	◄R–	G	G	◄R–	◄R–	R	R	Y	Y	R	R	R	R	DW	DW
PHASE 7	◄G–	◄G–	G	G	G	G	◄R–	◄R–	G	G	◄R–	◄R–	R	R	R	R	R	R	R	R	DW	DW
7 CHANGE	◄Y–	◄Y–	G	G	G	G	◄R–	◄R–	G	G	◄R–	◄R–	R	R	R	R	R	R	R	R	DW	DW
PRE EMPT 1	◄R–	◄R–	R	R	R	R	◄G–	◄G–	G	G	◄B–	◄B–	G	G	R	R	R	R	R	R	DW	DW
PRE EMPT 1 CHANGE	◄R–	◄R–	R	R	R	R	◄Y–	◄Y–	Y	Y	◄Y–	◄Y–	Y	Y	R	R	R	R	R	R	DW	DW
FLASHING OPERATION	FL/◄R–	FL/◄R–	FL/Y	FL/Y	FL/Y	FL/Y	FL/◄R–	FL/◄R–	FL/Y	FL/Y	FL/◄R–	FL/◄R–	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK

PHASE CHART

BUS. MD 3 AND
CRAINMONT DRIVE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
PHASE 1 & 5	◄G–	◄G–	R	R	◄G–	◄G–	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6																						
PHASE 1 & 6	◄R–	◄R–	R	R	◄G–	◄G–	G	G	R	R	R	R	R	R	DW	DW	WK	WK	DW	DW	DW	DW
1 & 6 CHANGE	◄R–	◄R–	R	R	◄Y–	◄Y–	G	G	R	R	R	R	R	R	DW	DW	WK	WK	DW	DW	DW	DW
PHASE 2 & 5	◄G–	◄G–	G	G	◄R–	◄R–	R	R	R	R	R	R	R	R	WK	WK	DW	DW	DW	DW	DW	DW
2 & 5 CHANGE	◄Y–	◄Y–	G	G	◄R–	◄R–	R	R	R	R	R	R	R	R	WK	WK	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	◄R–	◄R–	G	G	◄R–	◄R–	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEAR	◄R–	◄R–	G	G	◄R–	◄R–	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
2 & 6 CHANGE	◄R–	◄R–	Y	Y	◄R–	◄R–	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 8	◄R–	◄R–	R	R	◄R–	◄R–	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
4 & 8 CHANGE	◄R–	◄R–	R	R	◄R–	◄R–	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 8 ALT	◄R–	◄R–	R	R	◄R–	◄R–	R	R	G	G	G	G	G	G	DW	DW	DW	DW	WK	WK	WK	WK
PED CLEAR	◄R–	◄R–	R	R	◄R–	◄R–	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
4 & 8 CHANGE ALT	◄R–	◄R–	R	R	◄R–	◄R–	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PRE EMPT 1	◄G–	◄G–	G	G	◄R–	◄R–	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PRE EMPT 1 CHANGE	◄Y–	◄Y–	Y	Y	◄R–	◄R–	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/◄R–	FL/◄R–	FL/Y	FL/Y	FL/◄R–	FL/◄R–	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

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SHA
STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OPTICOM INSTALLATION

MD 2 (GOV. RITCHIE HWY) AND HAMMONDS LANE
MD 177 (MOUNTAIN RD) AND EDWIN RAYNOR BLVD
BUS. MD 3 AND GREEN BRANCH LA
BUS. MD 3 AND CRAINMONT DR
BUS. MD 3 AND MAYO RD / HOSPITAL DR

GENERAL INFORMATION SHEET

SCALE NONE DATE 5/10/2007 CONTRACT NO. AT936518̶5

DESIGNED BY JWA COUNTY ANNE ARUNDEL
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CHECKED BY [illegible] TIMS NO. I241
F.A.P. NO. TOD NO.

TS NO. DRAWING NO. 6 OF 7 SHEET NO. OF

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DRILL HOLES

DRILL HOLES