PHASE CHARTS

	1	2	3	4	5	6	7
PHASE 2 + 6	G	G	G	G	G	R	R
2 + 6 CHANGE	Y	Y	Y	Y	Y	R	R
PHASE 4	R	R	R	R	R	G	G
4 CHANGE	R	R	R	R	R	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R

MD 43 (WHITE MARSH BLVD) RAMP AND U.S. 40 (STAGE 1)

	1	2	3	4	5	6	7	8
PHASE 2 + 5	R	R	G	G	G	R	R	R
2 + 5 CHANGE	R	R	G	G	G	R	R	R
PHASE 2 + 6	G	G	G	G	G	R	R	R
2 + 6 CHANGE	Y	Y	Y	Y	Y	R	R	R
PHASE 4	R	R	R	R	R	G	G	G
4 CHANGE	R	R	R	R	R	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R

MD 43 (WHITE MARSH BLVD) RAMP AND U.S. 40 (STAGE 2)

	1	2	3	4	5	6	7
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 OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R

MD 43 (WHITE MARSH BLVD) RAMP AND U.S. 40 (STAGE 3,4)

	1	2	3	4	5	6	7	8	9
PHASE 2 + 5	R	R	G	G	R	R	R	R	R
2 + 5 CHANGE	R	R	Y	Y	R	R	R	R	R
PHASE 2 + 6	G	G	R	R	G	G	R	R	R
2 + 6 CHANGE	Y	Y	R	R	Y	Y	R	R	R
PHASE 4	R	R	R	R	R	R	G	G	G
4 CHANGE	R	R	R	R	R	R	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R

MD 43 (WHITE MARSH BLVD) RAMP AND U.S. 40 (ULTIMATE)

	1	2	3	4	5	6	7	8	9
PHASE 2 + 5	R	R	G	G	G	G	R	R	R
2 + 5 CHANGE	R	R	Y	Y	G	G	R	R	R
PHASE 2 + 6	G	G	R	R	G	G	R	R	R
2 + 6 CHANGE	Y	Y	R	R	Y	Y	R	R	R
PHASE 4	R	R	R	R	R	R	G	G	G
4 CHANGE	R	R	R	R	R	R	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R

MD 43 (WHITE MARSH BLVD) AND (RAMP A)

	1	2	3	4	5	6	7	8	9
PHASE 2 + 5	R	R	G	G	G	G	G	R	R
2 + 5 CHANGE	R	R	Y	Y	Y	G	G	R	R
PHASE 2 + 6	G	G	R	R	R	G	G	R	R
2 + 6 CHANGE	Y	Y	R	R	R	Y	Y	R	R
PHASE 4	R	R	R	R	R	R	R	G	G
4 CHANGE	R	R	R	R	R	R	R	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R

MD 150 AND MD AIR NATIONAL GUARD (PHASE 1-3)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 + 5	G	G	R	R	G	G	R	R	R	R	R	R	R	R	DW	DW
1 + 5 CHANGE	PHASE 1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5 OR PHASE 2 + 6															
PHASE 1 + 6	G	G	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW
1 + 6 CHANGE	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 + 5	R	R	R	R	G	G	G	G	R	R	R	R	R	R	DW	DW
2 + 5 CHANGE	R	R	R	R	Y	Y	G	G	R	R	R	R	R	R	DW	DW
PHASE 2 + 6	R	R	G	G	R	R	G	G	R	R	R	R	R	R	DW	DW
2 + 6 CHANGE	R	R	Y	Y	R	R	Y	Y	R	R	R	R	R	R	DW	DW
[2] PHASE 3	R	R	R	R	R	R	R	R	R	R	R	G	G	G	DW	DW
3 CHANGE	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW
PHASE 3 ALT	R	R	R	R	R	R	R	R	R	R	G	G	G	G	WK	WK
PED CLEARANCE	R	R	R	R	R	R	R	R	R	R	G	G	G	G	FL/DW	FL/DW
3 ALT CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW
[2] PHASE 4	R	R	R	R	R	R	R	R	G	G	G	R	R	R	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW
[2] EMERGENCY	G	G	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW
PRE-EMPTION	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	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

MD 150 AND MD AIR NATIONAL GUARD (ULTIMATE)

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
973023	[1] ~~505~~ ~~503~~ S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
	[2] 513	
		[1] - 2 EACH R10-4(1)MOD. SIGN (9 IN. x 15 IN.) - POLE MOUNT
		[2] - 1 EACH R3-6 SIGN (30 IN. x 36 IN.) - MAST ARM MOUNT

[2] REVISED PHASE CHART AT MD 150 AND AIR NATIONAL GUARD FOR SPLIT PHASE OPERATION AND OPTICOM DETECTION
REVISED QUANTITIES
GREENLINE REVISION NO. 2
10/13/2006

[1] REVISED PHASE CHART AT MD 150 AND AIR NATIONAL GUARD FOR PEDESTRIAN CROSSING AND
REVISED QUANTITIES
GREENLINE REVISION NO. 1
6/15/2006

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
203030	[1] 31 ~~29~~ C.Y.	TEST PIT EXCAVATION
[1] 585260	390 L.F.	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
[2] 585630	3 EACH	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROWS
801004	[1] 32 ~~30~~ C.Y.	CONCRETE FOR SIGNAL FOUNDATION
802501	[1] 1830 ~~1800~~ L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805125	[1] 60 ~~30~~ L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
813015	[2] 369 [1] ~~361~~ ~~359~~ S.F.	INSTALL OVERHEAD SIGN
[2] 816201	1 EACH	DISCRIMINATOR MODULE, 4 CHANNEL, MODEL 764
[2] 816215	1 EACH	OPTICOM NO. 721 DETECTOR EYE
[1] 818004	2 EACH	10 FOOT BREAKAWAY PEDESTAL POLE
837001	[1] 20 ~~18~~ EACH	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860270	[2] 15 ~~9~~ EACH	8 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860272	[2] 118 ~~108~~ EACH	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
[2] 860288	405 L.F.	ELECTRICAL CABLE - 4 CONDUCTOR OPTICOM CABLE
[1] 861105	575 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	[1] 4600 ~~4010~~ L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	[2] 1525 ~~860~~ L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
[1] 800000	2 EACH	16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION
[1] 800000	2 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION
[1] 800000	1 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON BASE UNIT

TSP-17

WR&A
Whitman, Requardt and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

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

TRAFFIC SIGNALIZATION PLAN
MD 43 (WHITE MARSH BLVD)

DRAWN BY: B. DONOWAY	F.A.P. NO.		TS NO. TS-601C	SHEET NO.
CHECKED BY: N. LEARY	S.H.A. NO.	BA8475171		
SCALE:	COUNTY:	BALTIMORE	T.I.M.S. NO. E442	OF
DATE: 2:59:25 PM	LOG MILE:			

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