INTERSECTION OPERATION

GENERAL
THIS PROJECT INVOLVES CHANGING THE EXISTING NB E/P LEFT TURN PHASE TO A FLASHING RED LEFT TURN SIGNAL WHICH WILL OPERATE AS AN EXCLUSIVE LEFT TURN FROM 6:00 - 9:00 AM AND 3:00 - 7:00 PM.

MD 32 SYKESVILLE ROAD IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA EIGHT-PHASE FULLY ACTUATED MODE. THE PHASING WILL OPERATE AS A "TYPICAL" EIGHT PHASE OPERATION WITH ALL LEFT TURNS BEING SIGNALIZED. THE NB LEFT TURN FOR MD 32 WILL OPERATE AS AN EXCLUSIVE LEFT TURN FROM 6-9 AM AND 3-7 PM MONDAY THRU FRIDAY. THE PHASE WILL OPERATE WITH AN INTIAL GREEN ARROW THEN REVERT TO A FLASHING RED ARROW FOR PERMISSIVE LEFT TURNS DURING ALL OTHER HOURS. THE SB LEFT TURN WILL OPERATE AS AN E/P LEFT TURN WITH EXCLUSIVE LEFT TURNS FOR THE EB AND WB MOVEMENTS. THERE IS AN ACTUATED PEDESTRIAN PHASE ASSOCIATED WITH PHASE 4. THE SIGNAL WILL FLASH PART TIME FROM 0500 - 2200.

EQUIPMENT LIST FOR AREAWIDE CONTRACT #AX1425185

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9571	61	SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN
	1	EA	R10-12 (4) (36" x 42") MAST ARM MOUNTED
	2	EA	SHIELD ASSEMBLY (48" x 75") POLE MOUNTED

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

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
8001	9	EA	12 INCH LED SIGNAL HEAD SECTION
8015	56	EA	LED SIGNAL HEAD MODULES - ANY SIZE
8022	1	EA	REM AND DISPOSE MATERIAL AND EQUIPMENT PER ASSIGN
8040	61	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN - INCLUDING ALL HARDWARE
8058	300	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO 14 AWG)

PROJECT CONTACTS

The contact persons for this project are as follows:

EDWARD RODENHIZER
CHIEF, SHA TRAFFIC SIGNAL SHOP
PHONE: 410-787-7650

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CHIEF TRAFFIC OPERATIONS DIVISION
DIVISION
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PHONE: 301-624-8201

DAVE COYNE
ASSISTANT DISTRICT ENGINEER
-MAINTENANCE
PHONE: 301-624-8108

JOHN CONCANNON
ASSISTANT DISTRICT ENGINEER
-TRAFFIC
PHONE: 301-624-8141

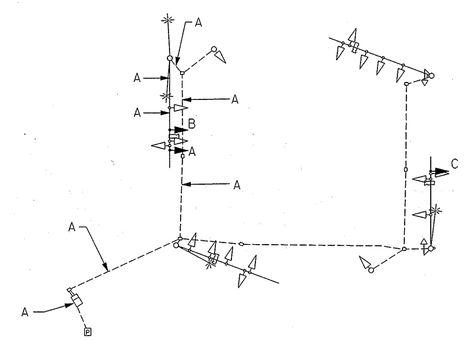
ANDREA ABEND
DISTRICT UTILITY ENGINEER
PHONE: 301-624-8115/8116

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
PHASE 1+5	◄G–	◄G–	R	R	◄G–	–G►	R	◄R–	◄R–	◄R–	◄R–	R	–G►	◄R–	◄R–	◄R–	◄R–	R	–G►	DW	DW
	CONTROLLER MAY SKIP TO PHASES 1+6, 2+5, OR 2+6																				
PHASE 1+6	◄R–	◄R–	R	R	◄G–	◄G–	G	◄R–	◄R–	◄R–	◄R–	R	R	◄R–	◄R–	◄R–	◄R–	R	–G►	DW	DW
1 CHANGE	◄R–	◄R–	R	R	◄Y–	◄Y–	G	◄R–	◄R–	◄R–	◄R–	R	R	◄R–	◄R–	◄R–	◄R–	R	–Y►	DW	DW
PHASE 2+5	◄G–	◄G–	G	G	R	R	R	◄R–	◄R–	◄R–	◄R–	R	–G►	◄R–	◄R–	◄R–	◄R–	R	R	DW	DW
5 CHANGE	◄Y–	◄Y–	G	G	R	R	R	◄R–	◄R–	◄R–	◄R–	R	–Y►	◄R–	◄R–	◄R–	◄R–	R	R	DW	DW
PHASE 2+6	◄R–	◄R–	G	G	G	G	G	◄R–	◄R–	◄R–	◄R–	R	R	◄R–	◄R–	◄R–	◄R–	R	R	DW	DW
2+6 CHANGE	◄R–	◄R–	Y	Y	Y	Y	Y	◄R–	◄R–	◄R–	◄R–	R	R	◄R–	◄R–	◄R–	◄R–	R	R	DW	DW
PHASE 3+7	◄R–	◄R–	R	R	R	R	R	◄G–	◄G–	◄G–	◄G–	R	R	◄G–	◄G–	◄G–	◄G–	R	R	DW	DW
	CONTROLLER MAY SKIP TO PHASES 3+8, 4+7, OR 4+8																				
PHASE 3+8	◄R–	◄R–	R	R	R	R	R	◄R–	◄R–	◄R–	◄R–	R	R	◄G–	◄G–	◄G–	◄G–	G	G	DW	DW
3+8 CHANGE	◄R–	◄R–	R	R	R	R	R	◄R–	◄R–	◄R–	◄R–	R	R	◄Y–	◄Y–	◄Y–	◄Y–	G	G	DW	DW
PHASE 4+7	◄R–	◄R–	R	R	R	R	R	◄G–	◄G–	◄G–	◄G–	G	G	◄R–	◄R–	◄R–	◄R–	R	R	DW	DW
4+7 CHANGE	◄R–	◄R–	R	R	R	R	R	◄Y–	◄Y–	◄Y–	◄Y–	G	G	◄R–	◄R–	◄R–	◄R–	R	R	DW	DW
PHASE 4+8	◄R–	◄R–	R	R	R	R	R	◄R–	◄R–	◄R–	◄R–	G	G	◄R–	◄R–	◄R–	◄R–	G	G	WALK	WALK
4+8 CHANGE	◄R–	◄R–	R	R	R	R	R	◄R	◄R–	◄R–	◄R–	Y	Y	◄R–	◄R–	◄R–	◄R–	Y	Y	FL/DW	FL/DW
PHASE 4 ALT	◄R–	◄R–	R	R	R	R	R	◄R–	◄R–	◄R–	◄R–	G	G	◄R–	◄R–	◄R–	◄R–	G	G	DW	DW
PED CLEARANCE	◄R–	◄R–	R	R	R	R	R	◄R–	◄R–	◄R–	◄R–	G	G	◄R–	◄R–	◄R–	◄R–	G	G	WALK	WALK
4 CHANGE	◄R–	◄R–	R	R	R	R	R	◄R	◄R–	◄R–	◄R–	Y	Y	◄R–	◄R–	◄R–	◄R–	Y	Y	FL/DW	FL/DW
FLASHING OPERATION	FL/ ◄R–	FL/ ◄R–	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/ ◄R–	FL/ ◄R–	FL/ ◄R–	FL/ ◄R–	FL/R	FL/R	FL/ ◄R–	FL/ ◄R–	FL/ ◄R–	FL/ ◄R–	FL/R	FL/R	DARK	DARK

NOTE: NORTHBOUND MD 32 WILL OPERATE AS AN EXCLUSIVE LEFT-TURN FROM 6:00-9:00AM AND 3:00-7:00PM THE SIGNAL WILL OPERATE WITH AN INITIAL GREEN ARROW THEN REVERT TO A FLASHING RED ARROW FOR PERMISSIVE LEFT-TURNS DURING ALL OTHER HOURS. THE SIGNAL WILL FLASH PART-TIME FROM 0500 TO 2200 ON SAURDAYS AND SUNDAYS.

WIRING DIAGRAM



WIRING KEY

A) 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

B.C) EXISTING 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

TOD # AX142-21
SHA # CL359A54/B54

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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 32 (SYKESVILLE ROAD) AT
MD 851 (SPRINGFIELD AVENUE)

GENERAL INFORMATION SHEET

SCALE N.T.S.	DATE JUNE 2008	CONTRACT NO. AX1425185	
DESIGNED BY MWS		COUNTY CARROLL	
DRAWN BY MWS		LOGMILE 06003201.12	
CHECKED BY J. BOLING CJW		TIMS NO. I-761	
F.A.P. NO.		TOD NO.	
TS NO. 4291 A	DRAWING	SHEET NO. 2 OF 2	

PLOTTED: Thursday, July 03, 2008 AT 10:51 AM
FILE: P:\04-005 Signals\MD 32 @ MD 851\Drawings\CADD\Working\PGG-P000_MD32.dgn

BY: nitesh