DRILL HOLES

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BORDER REV. DATE: Mon01/27/2008/07

BY: $USERNAME$

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES UPGRADING THE EXISTING SIGNAL HEADS TO LED AND ADDING A THIRD THRU TRAFFIC SIGNAL HEAD FOR BOTH US 13 APPROACHES. US 13 RUNS IN A NORTH -SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION IS EQUIPPED WITH A EIGHT PHASE FULLY-TRAFFIC-ACTUATED CONTROLLER HOUSED IN A BASE MOUNTED CABINET. THIS INTERSECTION WILL OPERATE IN A NEMA SIX (6) PHASE FULLY-TRAFFIC-ACTUATED MODE WITH BOTH NORTHBOUND AND SOUTHBOUND US 13 MOVEMENTS OPERATING CONCURRENTLY. EASTBOUND AND WESTBOUND MD 363 MOVEMENTS OPERATE ALONE.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #1 ARE AS FOLLOWS:

Mr. Gene Coffell
Assistant District Engineer - Traffic
Phone: 410-677-4040

Mr. Bruce Poole
District Utility Engineer
Phone: 410-677-4082

Mr. James Wright
Assistant District Engineer - Maintenance
Phone: 410-677-4010

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
9570	8.5 SF	SHEET ALUMINUM GROUND MOUNTED
		1 EA. M3-3 (SOUTH) (24" x 12") GROUND MOUNTED
		1 EA. M1-4 (US 13) (24" x 24") GROUND MOUNTED
		1 EA. M6-2R (21" x 15") GROUND MOUNTED
9571	50 SF	SHEET ALUMINUM MAST ARM/ POLE MOUNTED SIGN
		1 EA. SHIELD ASSEMBLY (NORTH, US 13, <-) (48" x 75") POLE MOUNTED
		1 EA. SHIELD ASSEMBLY (SOUTH, US 13, <-) (48" x 75") POLE MOUNTED

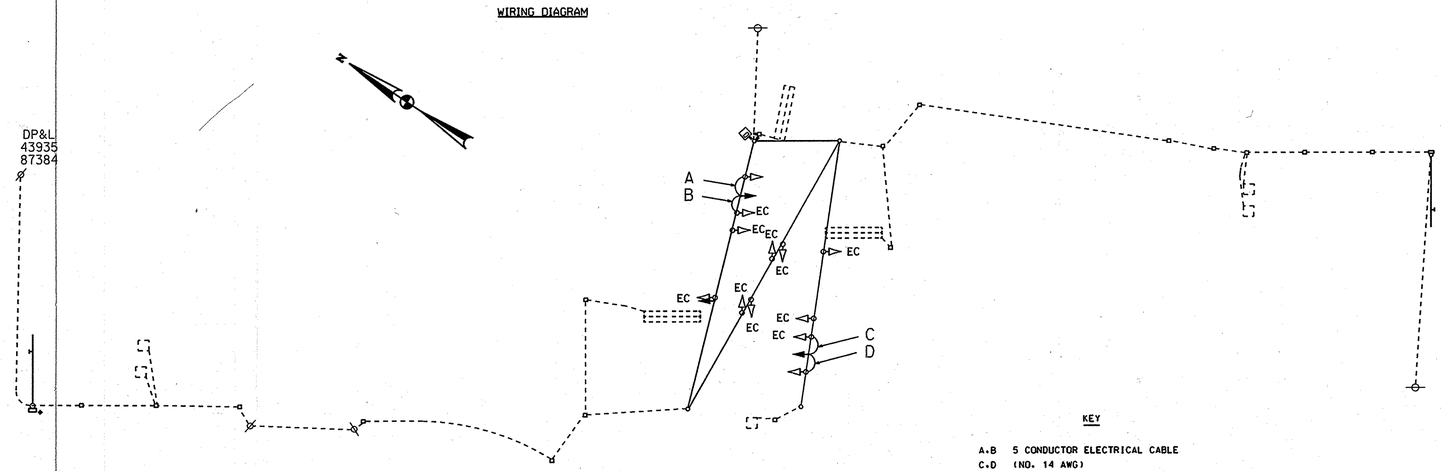
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
8001	6 EA	12 INCH (R, Y, G) LED SIGNAL HEAD SECTION
8015	38 EA	LED SIGNAL HEAD MODULES (ANY SIZE)
8017	1 EA	REMOVE AND DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8030	8 SF	RELOCATE EXISTING SIGN
8046	8 SF	INSTALL GROUND MOUNTED SIGN
8047	50 SF	INSTALL OVERHEAD SIGN
8053	6 EA	RELOCATE EXISTING SIGNAL HEAD
8058	60 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

C. IF THE CABINET IS TO BE REMOVED SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR

* - THE QUANTITY FOR THIS ITEM IS COVERED ON SHEET ONE

WIRING DIAGRAM



KEY

A,B 5 CONDUCTOR ELECTRICAL CABLE
C,D (NO. 14 AWG)

EC EXISTING CABLE

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		←R→ ←Y→ ←G→	←R→ ←Y→ ←G→	R Y G	R Y G	R Y G		←R→ ←Y→ ←G→	←R→ ←Y→ ←G→	R Y G	R Y G	R Y G	R Y G ←R→	R Y G	R Y G ←R→	R Y G
PHASE 1 AND 5	ALT FLASH - RED/ SIGNAL AHEAD	←G—	←G—	R	R	R	ALT FLASH - RED/ SIGNAL AHEAD	←G—	←G—	R	R	R	R	R	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																
PHASE 1 AND 6 QUEUE CLR	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	FLASH SIGNAL AHEAD	←G—	←G—	G	G	G	R	R	R	R
PHASE 1 AND 6	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	STEADY SIGNAL AHEAD	←G—	←G—	G	G	G	R	R	R	R
1 CHANGE	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	STEADY SIGNAL AHEAD	←Y—	←Y—	G	G	G	R	R	R	R
PHASE 2 QUEUE CLR AND 5	FLASH SIGNAL AHEAD	←G—	←G—	G	G	G	ALT FLASH - RED/ SIGNAL AHEAD	R	R	R	R	R	R	R	R	R
PHASE 2 AND 5	STEADY SIGNAL AHEAD	←G—	←G—	G	G	G	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	R	R	R	R
5 CHANGE	STEADY SIGNAL AHEAD	←Y—	←Y—	G	G	G	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	R	R	R	R
PHASE 2 AND 6 QUEUE CLEAR	FLASH SIGNAL AHEAD	←R—	←R—	G	G	G	FLASH SIGNAL AHEAD	←R—	←R—	G	G	G	R	R	R	R
PHASE 2 AND 6	STEADY SIGNAL AHEAD	←R—	←R—	G	G	G	STEADY SIGNAL AHEAD	←R—	←R—	G	G	G	R	R	R	R
PHASE 2 AND 6 CLEARANCE	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	G	G	G	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	G	G	G	R	R	R	R
2 AND 6 CHANGE	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	Y	Y	Y	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	Y	Y	Y	R	R	R	R
PHASE 3	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	R	R	←GG	G
3 CHANGE	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	R	R	←YY	Y
PHASE 4	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	←GG	G	R	R
4 CHANGE	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	←YY	Y	R	R
FLASHING OPERATION	STEADY SIGNAL AHEAD	FL/4-R	FL/4-R	FL/Y	FL/Y	FL/Y	STEADY SIGNAL AHEAD	FL/4-R	FL/4-R	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R
FIRE PRE-EMPTION 1	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	STEADY SIGNAL AHEAD	←G—	←G—	G	G	G	R	R	R	R
FIRE PRE-EMPTION 1 CLEARANCE	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	STEADY SIGNAL AHEAD	←Y—	←Y—	Y	Y	Y	R	R	R	R
FIRE PRE-EMPTION 2	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	R	R	←GG	G
FIRE PRE-EMPTION 2 CLEARANCE	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	R	R	←YY	Y
FIRE PRE-EMPTION 3	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	←GG	G	R	R
FIRE PRE-EMPTION 3 CLEARANCE	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	ALT FLASH - RED/ SIGNAL AHEAD	←R—	←R—	R	R	R	←YY	Y	R	R

NOTE: ALT FLASH - RED/ SIGNAL AHEAD = ALTERNATING FLASH BETWEEN (RED) THEN (SIGNAL AHEAD)

TOD NO:XX448-03
SHA NO:SO303A51/C51
US 13@ MD362/MD363/MD822

BAI BRUDIS & ASSOCIATES, INC.
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9220 RUMSEY ROAD; SUITE 110
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SHA
STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 13 AND MD 363
SOMERSET COUNTY, MARYLAND

GENERAL INFORMATION SHEET

SCALE N.T.S. ADVERTISED DATE 4/2008 CONTRACT NO. XX4485185

DESIGNED BY JB
DRAWN BY XO
CHECKED BY RJM
F.A.P. NO.
COUNTY SOMERSET
LOGMILE 19001313.42
TIMS NO. 1621
TOD NO.

TS NO. 384 H | DRAWING 2 OF 2 | SHEET NO. 2 OF 6

PLOTTED: $DATETIME$
FILE: $FILE$