PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 54 AND MD 675 B (US 13 ALT) IN WICOMICO COUNTY. MD 54 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

1 II. INTERSECTION OPERATION

~~THIS INTERSECTION OPERATES IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE. THERE WILL BE EXCLUSIVE/PERMISSIVE LEFT TURN MOVEMENTS ON BOTH APPROACHES ALONG MD 675 B. MD 675 B THRU MOVEMENTS WILL RUN CONCURRENTLY. MD 54 THRU MOVEMENTS WILL RUN CONCURRENTLY.~~

THIS INTERSECTION OPERATES IN A NEMA SIZE 'S' CABINET WITH SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE. THERE WILL BE EXCLUSIVE/PERMISSIVE LEFT TURN MOVEMENTS ON MD 675 APPROACHES. MD 675 APPROACHES WILL OPERATE CONCURRENTLY AND MD 54 WILL OPERATE WITH SPLIT PHASE SIDE ROAD.

EQUIPMENT LIST FOR CONTRACT NO. XX6615185

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADIMISTRATION

ITEM	QUANTITY	UNIT	DESCRIPTION
9042	1	EA	[UPDATED] CONTROLLER ASC II WITH TELEMETRY
9044	1	EA	[UPDATED] CONTROLLER CABINET, SIZE 6
9086	1	EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
9571	58	SF	[UPDATED] SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN
	4	EA	D-3(2) (VAR. x 16") POLE MOUNTED
	2	EA	R3-5(L) (30" x 36") MAST ARM MOUNTED

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

ITEM	QUANTITY	UNIT	DESCRIPTION
1001	2	EA	MAINTENANCE OF TRAFFIC
2002	1	CY	TEST PIT EXCAVATION
5003	210	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5005	75	LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
8001	30 ~~28~~	EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8012	1	EA	METERED SERVICE PEDESTAL EMBEDDED
8020	1	EA	MAST ARM POLE & 70' MAST ARM ANY 'T' DIMENSION
8023	1	EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8028	4	EA	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8038	50	LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES – TRENCHED
8040	58	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8042	35	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8045	30	LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
8046	1	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8055	110	LF	ELECTRICAL CABLE – 5 CONDUCTOR (NO. 14 AWG)
8056	405	LF	ELECTRICAL CABLE – 7 CONDUCTOR (NO. 14 AWG)
8062	1	EA	INSTALL CONTROLLER AND CABINET – BASE MOUNT

CONTACTS

The contact persons are:

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Assistant District Engineer – Traffic
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Assistant District Engineer – Const.
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Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
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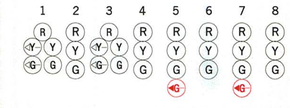
Mr. Edward Rodenhizer
Chief SHA Traffic Signal Shop
Phone: (410) 787-7650

Mr. Eugene Bailey
Chief: Sign Shop
Phone: 410-787-7676

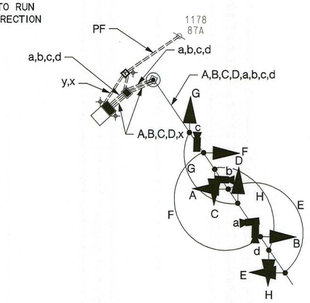
PHASE CHART



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

WIRING DIAGRAM

MD 54 IS ASSUMED TO RUN
IN AN EAST/WEST DIRECTION



WIRING KEY

A,B,C,D	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
E,F,G,H	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
a,b,c,d	VIDEO CAMERA CABLE
x	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
y	2 WIRE, 1 CONDUCTOR ELECTRICAL CABLE (NO. 8 AWG THHN/THWN)
PF	POWER FEED
+	GROUND ROD

1 Redline Revision No. 1 December 1, 2011
TEDD Approval: _____

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 54 (STATE STREET) AT
MD 675 B (US 13 ALT) (BI STATE BLVD.)
DELMAR, MD

GENERAL INFORMATION PLAN SHEET

SCALE NONE ADVERTISED DATE 09/2011 CONTRACT NO. XX6615185

DESIGNED BY CW
DRAWN BY CW
CHECKED BY JB
F.A.P. NO.
COUNTY WICOMICO
LOGMILE 22005410.03
TIMS NO. J788
TOD NO.

TS NO. 2042B E | DRAWING – OF | SHEET NO. 2 OF 2

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PLOTTED: Wednesday, December 07, 2011 AT 08:55 AM
FILE: P:\09-002 TEDD\Task 4 MD 54 @ MD 675\Drawings\CADD\Redlines\pGG-P000_MD54@MD675.dgn

BY: chuck –