PROJECT DESCRIPTION

GENERAL

STAGE 2 OF THE PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC CONTROL SIGNAL FOR STAGE 2 OF THE MAINTENANCE OF TRAFFIC PLAN AT U.S. 301 AND BILLINGSLEY ROAD IN CHARLES COUNTY. U.S. 301 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATION WILL REMAIN THE SAME, THAT IS, A NEMA SIX PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE U.S. 301 APPROACHES OPERATING CONCURRENTLY AND THE BILLINGSLEY ROAD APPROACHES OPERATING WITH SPLIT PHASES.

A LEAD EXCLUSIVE LEFT-TURN PHASE IS PROVIDED FOR SOUTHBOUND U.S. 301 AND LAG EXCLUSIVE LEFT-TURN PHASE FOR NORTHBOUND U.S. 301.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND EIGHT PHASE CONTROLLER WILL BE USED.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.00 - 104.00-12
STANDARD NO. MD-104.31-01 (FLAGGING OPERATION)
STANDARD NO. MD-104.49-01 (SHOULDER WORK)
STANDARD NO. MD-104.44-01 (LEFT-LANE CLOSURE)
STANDARD NO. MD-104.45-01 (RIGHT-LANE CLOSURE)
STANDARD NO. MD-104.46-01 (CENTER LANE CLOSURE)
STANDARD NO. MD-104.35-01 (LANE SHIFT)
STANDARD NO. MD-104.33-02 (SHOULDER WORK)
STANDARD NO. MD-104.32-02 (INTERSECTION FLAGGING OPERATION)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. PAUL D. ARMSTRONG
DISTRICT ENGINEER
PHONE: (410) 841-5450

MR. LAWRENCE E. ELLIOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-5463

MR. RAYMOND E. HUTZLER
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-5462

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - UTILITY
PHONE: (410) 841-5450

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

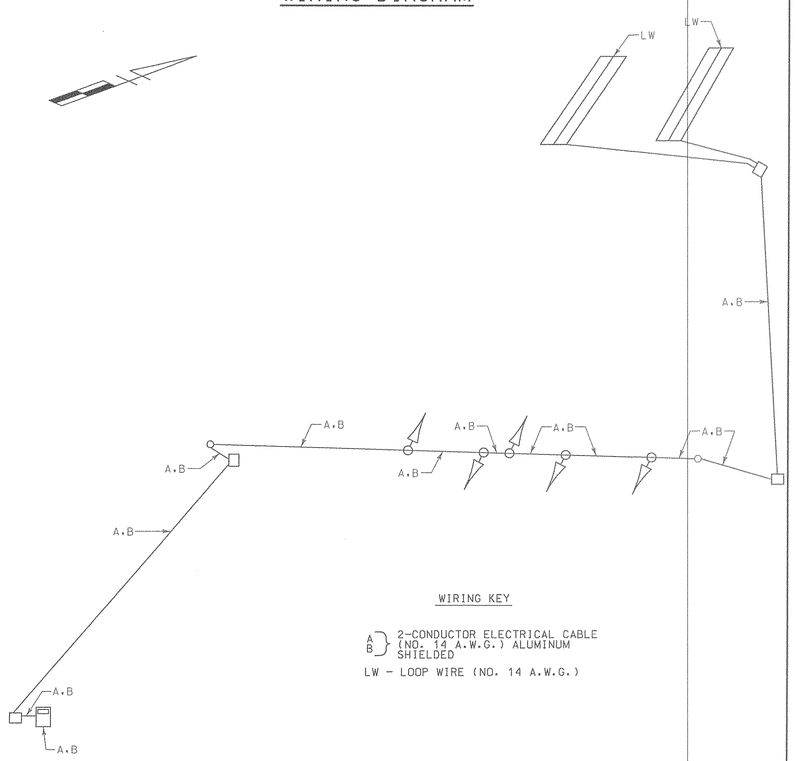
QUANTITY	DESCRIPTION
4 S.F.	SHEET ALUMINUM SIGN TO CONSIST OF :
	- 1 EACH R10-11B SIGN (24 IN. X 24 IN.) - SPAN MOUNT.

EQUIPMENT LIST "B"

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

QUANTITY	DESCRIPTION
LUMP SUM	MAINTENANCE OF TRAFFIC
2 U.D.	ARROW PANEL
20 L.F.	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE)
280 L.F.	FURNISH AND INSTALL SAWCUT (LOOP DETECTOR)
1000 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
1 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
4 S.F.	INSTALL OVERHEAD SIGN
2 EACH	RELOCATE SIGNAL HEAD - SPAN MOUNT
1100 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED (NO. 14 A.W.G.)
11 S.F.	RELOCATE EXISTING SIGN
LUMP SUM	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
170 L.F.	PULL BACK EXISTING ELECTRICAL CABLE
45 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED

WIRING DIAGRAM

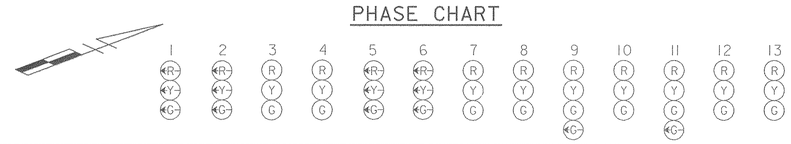


WIRING KEY

A, B } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED

LW - LOOP WIRE (NO. 14 A.W.G.)

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13
PHASE 2 + 5	←R—	←R—	R	R	←G—	←G—	G	G	R	R	R	R	R
2 + 5 CHANGE	←R—	←R—	R	R	←Y—	←Y—	G	G	R	R	R	R	R
PHASE 2 + 6	←R—	←R—	G	G	←R—	←R—	G	G	R	R	R	R	R
2 + 6 CHANGE	←R—	←R—	G	G	←R—	←R—	Y	Y	R	R	R	R	R
PHASE 1 + 6	←G—	←G—	G	G	←R—	←R—	R	R	R	R	R	R	R
1 + 6 CHANGE	←Y—	←Y—	Y	Y	←R—	←R—	R	R	R	R	R	R	R
PHASE 3	R	R	R	R	R	R	R	R	G ←G—	G	R	R	R
3 CHANGE	R	R	R	R	R	R	R	R	Y	Y	R	R	R
PHASE 4	R	R	R	R	R	R	R	R	R	R	G ←G—	G	G
4 CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	Y
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

WR&A
Whitman, Requardt and Associates, LLP
2315 Saint Paul Street
Baltimore, Maryland 21218
(410) 235-3450

TEMPORARY TRAFFIC SIGNAL STAGE 2

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
U.S. 301 AND BILLINGSLEY ROAD

DRAWN BY: S.BLOSS	F.A.P. NO.	TS NO. 2484 X-2 GJ	SHEET NO.
CHECKED BY: N.LEARY	S.H.A. NO.		
SCALE: NONE	COUNTY: CHARLES	T.I.M.S. NO. D-003	4 OF 5
DATE: 04-00	LOG MILE: 08030121.01		

M:\94002\40735-5.DGN