

EQUIPMENT LISTS

A. EQUIPMENT TO BE FURNISHED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
56 S.F.	2 EACH	GM-1 SIGN, 7' x 4', BREAKAWAY WOOD POST MOUNTED SIGN

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	1 C.Y.	TEST PIT EXCAVATION
5005	60 L.F.	F & I 24" WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5008	60 L.F.	REMOVE EXISTING PAVEMENT MARKINGS - ANY WIDTH
6004	24 S.F.	F & I 4" CONCRETE SIDEWALK
8011	18 EACH	F & I 12" BLACK FACED VEHICULAR SIGNAL HEAD SECTION
8048	1 EACH	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT PER ASSIGNMENT
8059	4 C.Y.	F & I CONCRETE FOR SIGNAL FOUNDATION
8061	64 L.F.	F & I WOOD SIGN SUPPORTS - 4" x 6"
8076	56 S.F.	INSTALL GROUND MOUNTED SIGN
8087	1,180 L.F.	F & I ELECTRICAL CABLE - 7-CONDUCTOR (NO. 14 AWG)

C. EQUIPMENT TO BE REMOVED AND RETURNED TO THE SHA

ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

SIGN MEASUREMENTS



PROJECT DESCRIPTION

I. GENERAL

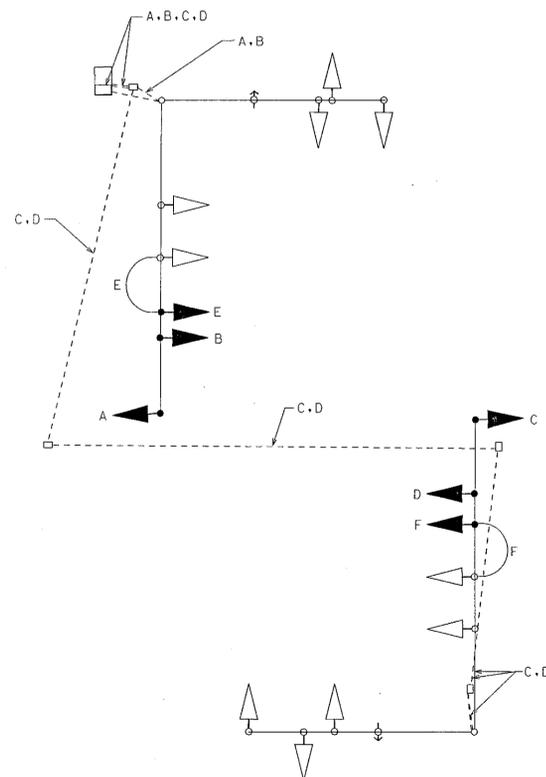
THIS PROJECT INVOLVES INSTALLING EXCLUSIVE LEFT TURNS FOR BOTH NORTHBOUND AND SOUTHBOUND US 301. IT ALSO INVOLVES INSTALLING NEXT SIGNAL AHEAD SIGNS FOR BOTH NORTHBOUND AND SOUTHBOUND US 301. US 301 RUNS IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

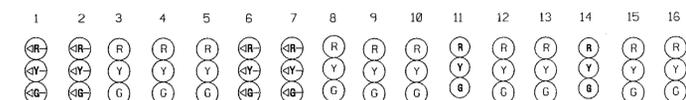
THE INTERSECTION IS EQUIPPED WITH AN EIGHT PHASE CONTROLLER HOUSED IN A BASE MOUNTED CABINET. THIS INTERSECTION OPERATES IN A NEMA SIX (6) PHASE, FULLY-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE LEFT TURNS FOR BOTH NORTHBOUND AND SOUTHBOUND US 301. US 301 THROUGH MOVEMENTS WILL RUN CONCURRENTLY. MD 381/ BRANDYWINE ROAD SIDE STREET MOVEMENTS WILL OPERATE CONCURRENTLY. FIREHOUSE PRE-EMPTION MOVEMENTS ARE INSTALLED FOR BOTH WESTBOUND MD 381 AND EASTBOUND BRANDYWINE ROAD.

WIRING DIAGRAM

A-F = 7-CONDUCTOR CABLE (NO. 14 AWG)



PHASE CHART



PHASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 & 5	G-	G-	R	R	R	G-	G-	R	R	R	R	R	R	R	R	R
1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 1 & 6, OR 2 & 5, OR 2 & 6															
PHASE 1 & 6	G-	G-	G	G	G	R-	R-	R	R	R	R	R	R	R	R	R
1 CHANGE	Y-	Y-	G	G	G	R-	R-	R	R	R	R	R	R	R	R	R
PHASE 2 & 5	R-	R-	R	R	R	G-	G-	G	G	G	R	R	R	R	R	R
5 CHANGE	R-	R-	R	R	R	Y-	Y-	G	G	G	R	R	R	R	R	R
PHASE 2 & 6	R-	R-	G	G	G	R-	R-	G	G	G	R	R	R	R	R	R
2 & 6 CHANGE	R-	R-	Y	Y	Y	R-	R-	Y	Y	Y	R	R	R	R	R	R
PHASE 4 & 8	R-	R-	R	R	R	R-	R-	R	R	R	G	G	G	G	G	G
4 & 8 CHANGE	R-	R-	R	R	R	R-	R-	R	R	R	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R							

FIRE HOUSE PRE-EMPTION PHASE 04

FIREHOUSE PRE-EMPTION PHASE 04	R-	R-	R	R	R	R-	R-	R	R	R	G	G	G	R	R	R
PRE-EMPTION CLEARANCE	R-	R-	R	R	R	R-	R-	R	R	R	Y	Y	Y	R	R	R
PHASE 2 & 6 NORMAL OPERATION	R-	R-	G	G	G	R-	R-	G	G	G	R	R	R	R	R	R

FIRE HOUSE PRE-EMPTION PHASE 08

FIREHOUSE PRE-EMPTION PHASE 08	R-	R-	R	R	R	R-	R-	R	R	R	R	R	G	G	G	G
PRE-EMPTION CLEARANCE	R-	R-	R	R	R	R-	R-	R	R	R	R	R	Y	Y	Y	Y
PHASE 2 & 6 NORMAL OPERATION	R-	R-	G	G	G	R-	R-	G	G	G	R	R	R	R	R	R

PROJECT CONTACTS

THE PROJECT CONTACTS ARE AS FOLLOWS:

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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
US 301 (ROBERT S. CRAIN HIGHWAY) AND  
MD 381/ BRANDYWINE ROAD  
BRANDYWINE, MARYLAND

DRAWN BY: <i>William Malachuk</i>	F.A.P. NO. AC-STPS-000S786/E	T.S. NO. TS-596 G	SHEET NO.
CHECKED BY: <i>DE 431/AST</i>	S.H.A. NO. 16030103.12	T.I.M.S. NO. F247	2 OF 2
SCALE: AS NOTED	COUNTY: PRINCE GEORGE'S	LOG MILE: 16030103.12	
DATE: 09/2002			