

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 301 AND EXCALIBUR ROAD/MILL BRANCH ROAD IN PRINCE GEORGE'S COUNTY.

THE MODIFICATION INVOLVES CONSTRUCTING AN EXCLUSIVE RIGHT TURN LANE FOR MILL BRANCH ROAD WHICH WILL REQUIRE NEW DETECTION FOR THE MILL BRANCH ROAD APPROACH. US 301 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULLY ACTUATED MODE WITH EXCLUSIVE LEFT-TURNS FOR US 301. SPLIT PHASING FOR EXCALIBUR AND MILL BRANCH ROAD WILL BE PROVIDED.

EQUIPMENT LIST A

EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION. NONE

EQUIPMENT LIST B

EQUIPMENT TO BE FURNISHED AND/OR INSTALL BY THE CONTRACTOR

QUANTITY	DESCRIPTION
100 L.F.	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
600 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
1 EA.	ELECTRICAL HANDHOLE
20 L.F.	1-INCH LIQUID TIGHT FLEXIBLE NON METALLIC CONDUIT
1 EA.	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
290 L.F.	SAW CUT FOR LOOP DETECTOR

EQUIPMENT LIST C

ALL EQUIPMENT NOT LISTED BELOW SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS

MR. BRIAN YOUNG
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: 301-513-7358

MR. AUGIE REBISH
ASSISTANT DISTRICT ENGINEER - UTILITIES
PHONE: 301-513-7350

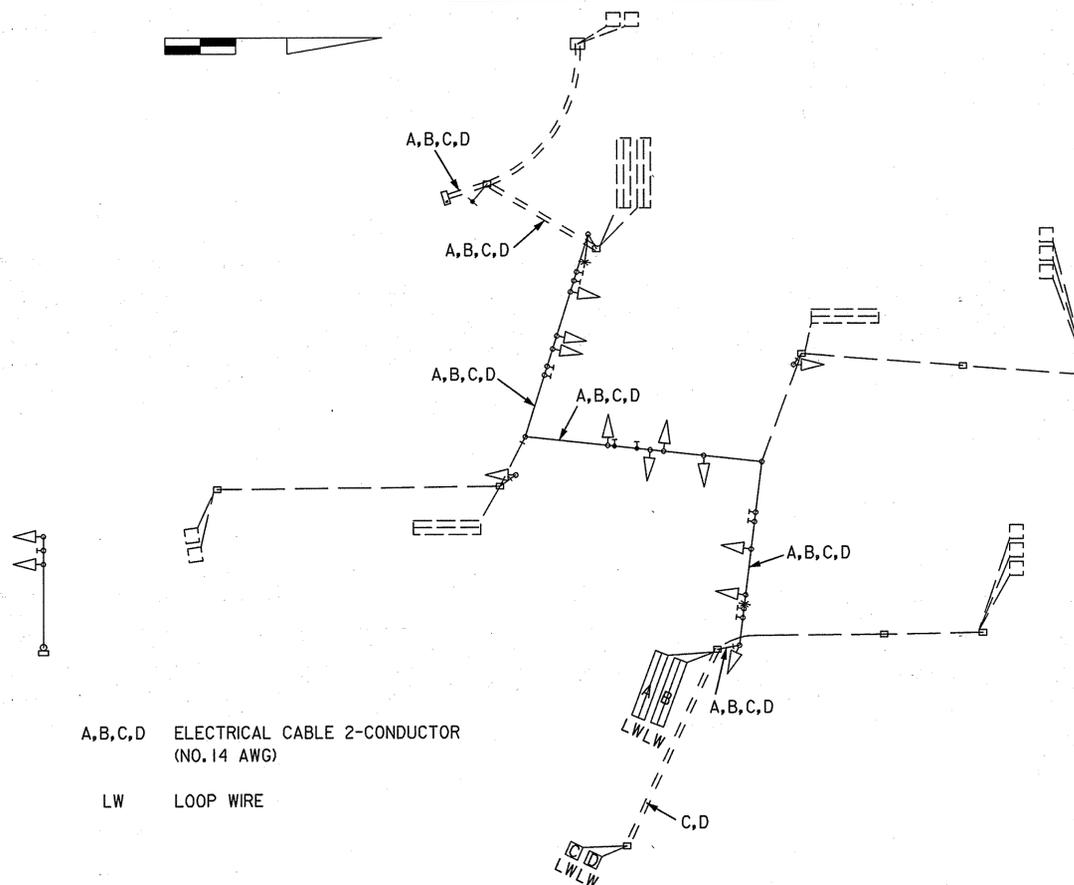
MR. WAYNE MOWDY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: 301-513-7304

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

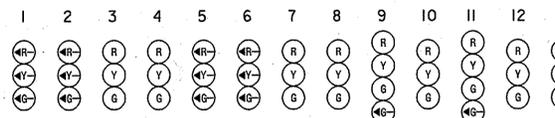
MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: 410-787-7630

THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS
OWINGS MILLS, MARYLAND

WIRING DIAGRAM



PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13
PHASE 1 & 5	←G-	←G-	R	R	←G-	←G-	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	←R-	←R-	R	R	R	R	R	R	R
1 CHANGE	←Y-	←Y-	G	G	←R-	←R-	R	R	R	R	R	R	R
PHASE 2 & 5	←R-	←R-	R	R	←G-	←G-	G	G	R	R	R	R	R
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-	Y	Y	←R-	←R-	Y	Y	R	R	R	R	R
PHASE 3	←R-	←R-	R	R	←R-	←R-	R	R	←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	Y	Y	←G-	G	R
4 CHANGE	←R-	←R-	R	R	←R-	←R-	R	R	←Y-	Y	G		
FLASHING OPERATION	←FL/Y	←FL/Y	FL/Y	FL/Y	←FL/Y	←FL/Y	FL/Y						
FIREHOUSE PRE-EMPTION PHASE 1 & 6	←G-	←G-	G	G	←R-	←R-	R	R	R	R	R	R	R
PRE-EMPTION CLEARANCE PHASE 2 & 6	←Y-	←Y-	G	G	←R-	←R-	R	R	R	R	R	R	R
PHASE 2 & 6 NORMAL OPERATION	←R-	←R-	G	G	←R-	←R-	G	G	R	R	R	R	R

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 301 AT EXCALIBUR ROAD / MILL BRANCH ROAD
INTERSECTION IMPROVEMENTS

REVISIONS	GENERAL INFORMATION SHEET	
	SCALE 1" = 20'	DATE 2/21/2000 CONTRACT NO.
	DESIGNED BY PDU	COUNTY PRINCE GEORGES
	DRAWN BY TSM	LOGMILE 16030123.20
	CHECKED BY	T.I.M.S. NO. 1146
	F.A.P. NO. AC-STPG-000S(683)E	TOD NO.
	DRAWING NO. TS 3354D-61	SHEET NO. 18 OF 18