

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 40 AND WOODBRIDGE CENTER WAY IN HARFORD COUNTY. THIS MODIFICATION IS REQUIRED BECAUSE OF THE PHASE IMPROVEMENT TO THE INTERSECTION. US 40 IS CONSIDERED TO RUN IN AN EAST/WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION PRESENTLY OPERATES IN A NEMA SIX (6) PHASE, FULLY-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE LEFT TURN MOVEMENTS FOR BOTH EAST AND WESTBOUND US 40. THE US 40 THROUGH MOVEMENTS OPERATE CONCURRENTLY. THE WOODBRIDGE CENTER WAY/BUSINESS CENTER WAY OPERATE CONCURRENTLY.

THE INTERSECTION IS TO BE MODIFIED TO OPERATE IN A NEMA SIX (6) PHASE, FULLY-TRAFFIC-ACTUATED MODE. THE US 40 MOVEMENTS WILL REMAIN UNCHANGED. THE WOODBRIDGE CENTER WAY/BUSINESS CENTER WAY MOVEMENTS WILL OPERATE IN A SIDE STREET SPLIT MODE. THE EXISTING CONTROLLER/CABINET, AND LOOP DETECTORS WILL BE UTILIZED.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A. AND INSTALLED BY THE CONTRACTOR.

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
4	EA	814	12", ONE-WAY, FOUR SECTION (R,Y,G,GA) ADJUSTABLE TRAFFIC SIGNAL HEAD WITH PROPER SPAN WIRE HANGERS, BALANCE ADJUSTERS AND TUNNEL VISORS

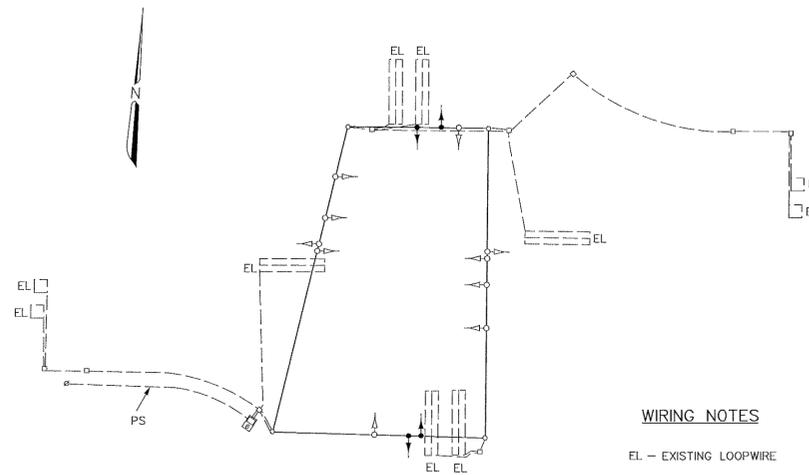
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
LUMP SUM	LS	108	MOBILIZATION
LUMP SUM	LS	108	MAINTENANCE OF TRAFFIC (TRAFFIC CONTROL)
LUMP SUM	LS		REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL EQUIPMENT
2	EA		RAISE AND JACK EXISTING SPAN WIRE

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Phase 1 & 5	←G—	←G—	R	R	←G—	←G—	R	R	R	R	R	R	R	R
1 & 5 Change To Phase 1 & 6 or Phase 2 & 5														
Phase 2 & 5	←G—	←G—	G	G	←R—	←R—	R	R	R	R	R	R	R	R
5 Change	←Y—	←Y—	G	G	←R—	←R—	R	R	R	R	R	R	R	R
Phase 1 & 6	←R—	←R—	R	R	←G—	←G—	G	G	R	R	R	R	R	R
6 Change	←R—	←R—	R	R	←Y—	←Y—	G	G	R	R	R	R	R	R
Phase 2 & 6	←R—	←R—	G	G	←R—	←R—	G	G	R	R	R	R	R	R
2 & 6 Change	←R—	←R—	Y	Y	←R—	←R—	Y	Y	R	R	R	R	R	R
Phase 3	←R—	←R—	R	R	←R—	←R—	R	R	R	R	←G—	←G—	G	G
3 Change	←R—	←R—	R	R	←R—	←R—	R	R	R	R	←Y—	←Y—	Y	Y
Phase 4	←R—	←R—	R	R	←R—	←R—	R	R	←G—	←G—	G	R	R	R
4 Change	←R—	←R—	R	R	←R—	←R—	R	R	←Y—	←Y—	Y	R	R	R
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	FL/R

WIRING DIAGRAM



WIRING NOTES

EL - EXISTING LOOPWIRE
PS - POWER SUPPLY



MDOT - STATE HIGHWAY ADMINISTRATION <i>Office of Traffic & Safety</i> TRAFFIC ENGINEERING DESIGN DIVISION			
DRAWN BY: <u>AA</u> DES. BY: <u>AA</u> CHK. BY: _____		(GENERAL INFORMATION) US 40 @ WOODBRIDGE CENTER WAY/BUSINESS CENTER WAY COUNTY: HARFORD LOG MILE * _____	
DATE: <u>March 12, 1996</u> SCALE: <u>NONE</u>	F.A.P. NO. _____ S.H.A. NO. <u>BW-864-802-412</u>	TS/STD. NO. <u>2358C-GI</u>	SHEET NO. 2 OF 2