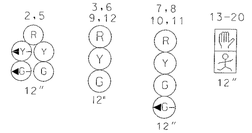
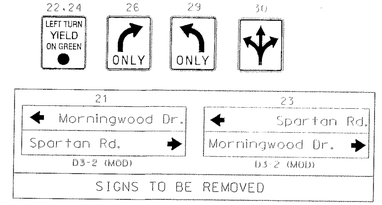
EXISTING SIGNALS



EXISTING SIGNS

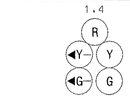


MD 97 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

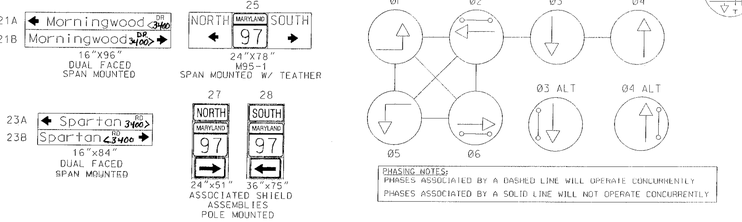
PROJECT DESCRIPTION

THIS PROJECT THE REPLACEMNT OF THE EXISTING SIGNAL HEADS WITH BLACK FACED HEADS FOR MD 97 AS WELL THE ADDITIN OF NEARSIDE SIGNAL HEADS FOR MD 97 AND SIGNING UPGRADES.

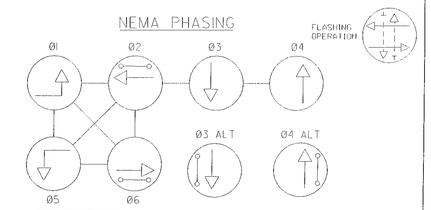
PROPOSED SIGNALS



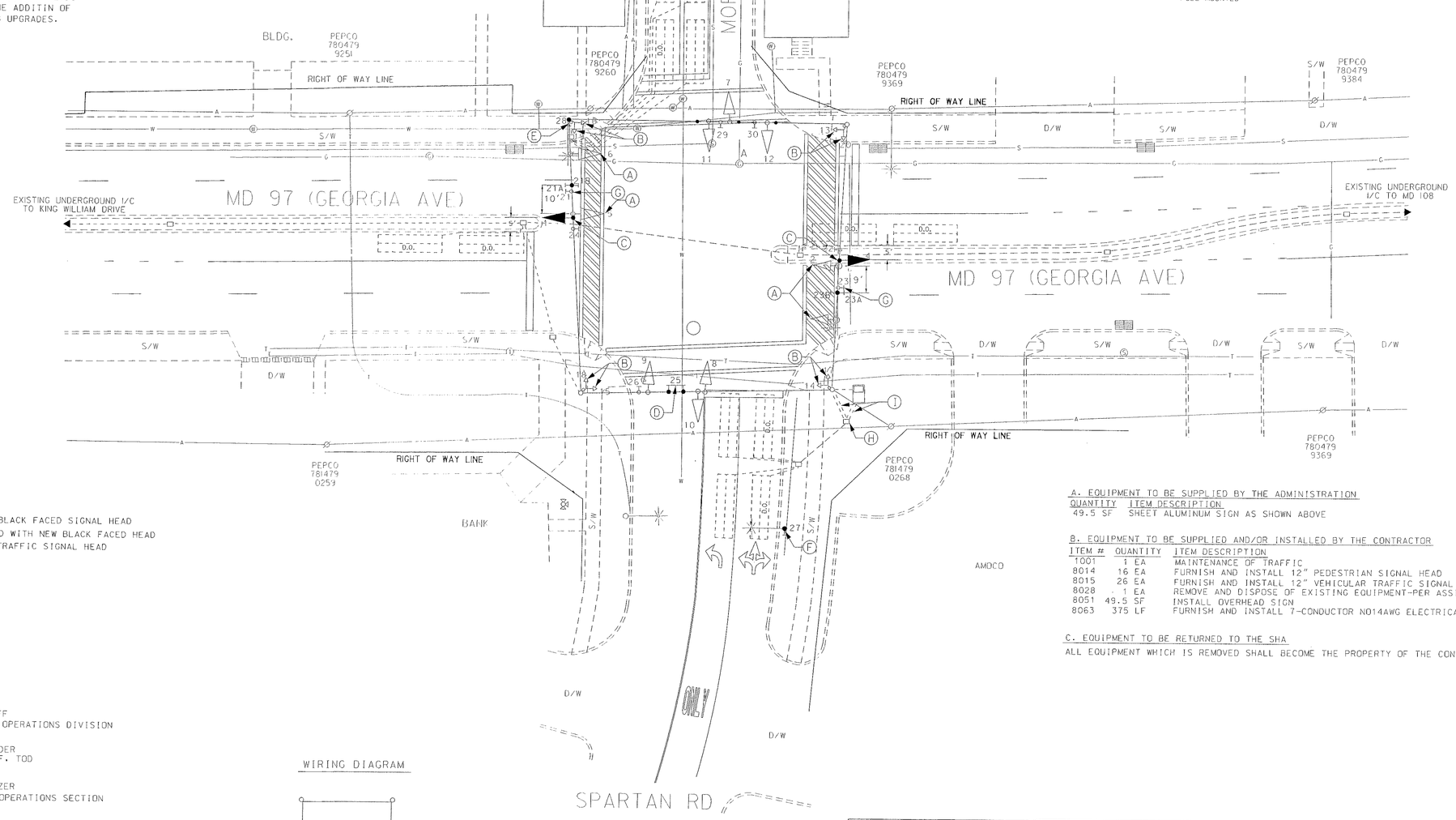
PROPOSED SIGNS



NEMA PHASING



PHASING NOTES:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY



CONSTRUCTION DETAILS

A. REPLACE EXISTING SIGNAL HEAD WITH NEW BLACK FACED SIGNAL HEAD
B. REPLACE EXISTING PEDESTRIAN SIGNAL HEAD WITH NEW BLACK FACED HEAD
C. INSTALL NEW 12" 5-SECTION BLACK FACED TRAFFIC SIGNAL HEAD
D. INSTALL SIGN ON EXISTING SPAN WIRE
E. INSTALL SIGN ON EXISTING SIGNAL POLE
F. INSTALL SIGN ON EXISTING LIGHT POLE
G. REMOVE EXISTING SIGN
H. USE EXISTING HANDBOX
I. USE EXISTING CONDUIT

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

QUANTITY	ITEM DESCRIPTION
49.5 SF	SHEET ALUMINUM SIGN AS SHOWN ABOVE

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

ITEM #	QUANTITY	ITEM DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8014	16 EA	FURNISH AND INSTALL 12" PEDESTRIAN SIGNAL HEAD
8015	26 EA	FURNISH AND INSTALL 12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8028	1 EA	REMOVE AND DISPOSE OF EXISTING EQUIPMENT-PER ASSIGNMENT
8051	49.5 SF	INSTALL OVERHEAD SIGN
8063	375 LF	FURNISH AND INSTALL 7-CONDUCTOR NO14AWG ELECTRICAL CABLE

C. EQUIPMENT TO BE RETURNED TO THE SHA

ALL EQUIPMENT WHICH IS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR

PROJECT CONTACTS

MR. CHARLIE WATKINS
DISTRICT ENGINEER
(301) 513-7300

MR. MAJID SHAKIB
ADE-TRAFFIC
(301) 513-7358

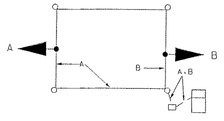
MR. RALEIGH MEDLEY
ADE-MAINTENANCE
(301) 513-7304

MR. RICHARD DAFF
CHIEF, TRAFFIC OPERATIONS DIVISION
(410) 787-7630

MR. ROBERT SNYDER
ASSISTANT CHIEF, TOD
(410) 787-7630

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS SECTION
(410) 787-7650

WIRING DIAGRAM



A.B 7-CONDUCTOR NO 14AWG

UTILITY LEGEND

—G—G—	GAS MAIN
—W—W—	WATER MAIN
—S—S—	SEWER MAIN
—E—E—	ELECTRIC CABLES
—A—A—	AERIAL CABLES
—T—T—	TELEPHONE CABLES

REVISIONS						
D	UPGRADE TO BLACK FACED HEADS TIMS# E597					6/01
	CJS					
C	SPLIT SIDE STREETS, ADD DUAL RB LT					6-27-97
	RRZ					
B	INSTALL N.B. E/P LEFT TURN PHASING					3-9-94
	DJD					
A	INSTALL S.B. E/P LEFT TURN PHASING					5-3-89
	RFL					

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION
MD 97 AND SPARTAN RD / MORNINGWOOD DR

DRAWN BY:	S. R. BARANOWSKI	F.A.P. NO.	23854-1250226D	TS NO. 2452D	SHEET NO.
CHECKED BY:	R.R. ZACHERL	S.H.A. NO.			
SCALE:	4-12-88	COUNTY:	MONTGOMERY	T.I.M.S. NO.	1 OF 1
DATE:	1"= 20'	LOG MILE:	1500971L70		