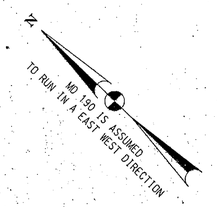


EXISTING SIGNS

12B

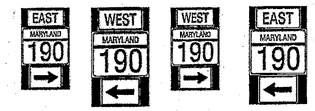
D3-2
VARIABLE X 16"

12A

D3-2
VARIABLE X 16"

PROPOSED SIGNS

13 14 15 16



SHIELD ASSEMBLY 30"X51" | SHIELD ASSEMBLY 48"X75" | SHIELD ASSEMBLY 30"X51" | SHIELD ASSEMBLY 48"X75"

PROPOSED SIGNALS

1-9

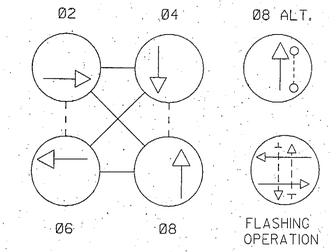
12"
BLACK FACED

EXISTING SIGNALS

10,11

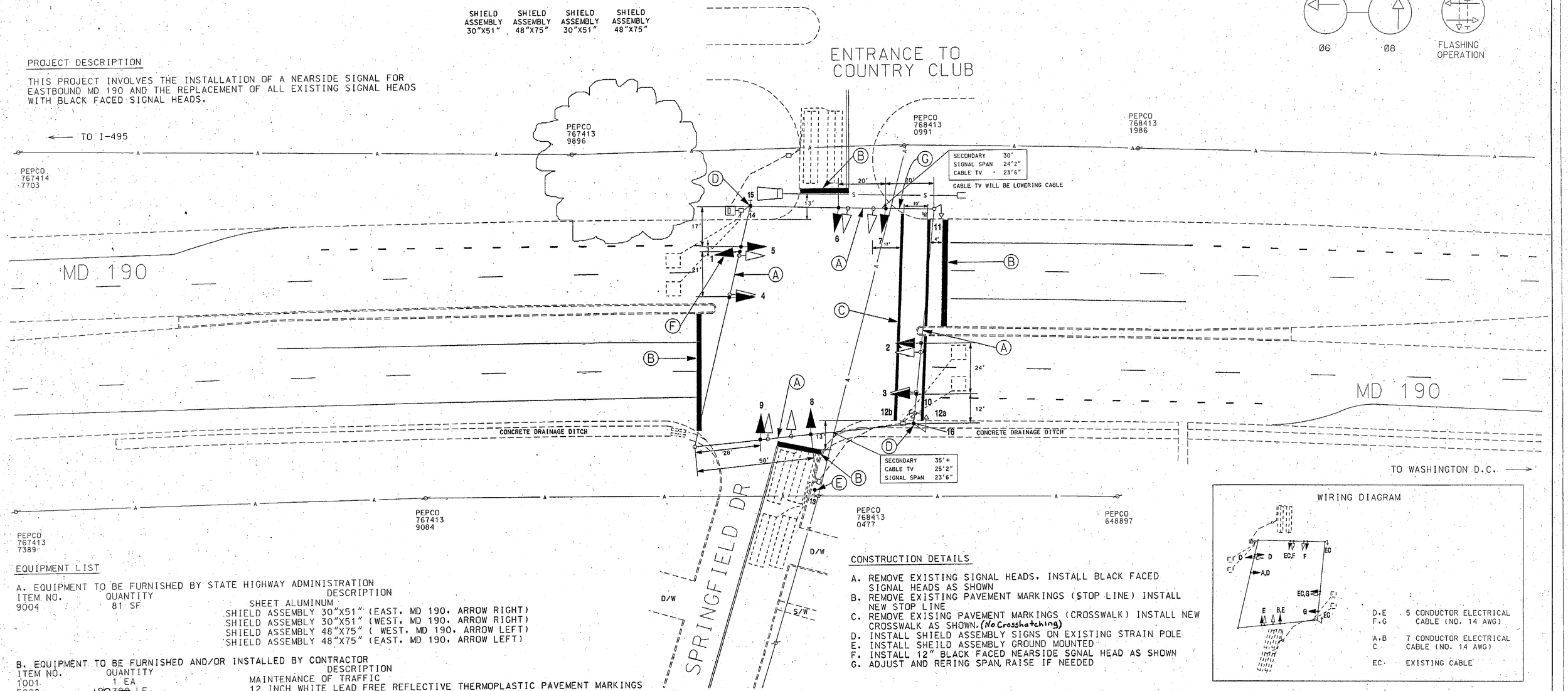
12"

NEMA PHASING



PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A NEARSIDE SIGNAL FOR EASTBOUND MD 190 AND THE REPLACEMENT OF ALL EXISTING SIGNAL HEADS WITH BLACK FACED SIGNAL HEADS.



CONSTRUCTION DETAILS

A. REMOVE EXISTING SIGNAL HEADS. INSTALL BLACK FACED SIGNAL HEADS AS SHOWN
B. REMOVE EXISTING PAVEMENT MARKINGS (STOP LINE) INSTALL NEW STOP LINE
C. REMOVE EXISING PAVEMENT MARKINGS (CROSSWALK) INSTALL NEW CROSSWALK AS SHOWN. (No Crosshatching)
D. INSTALL SHIELD ASSEMBLY SIGNS ON EXISTING STRAIN POLE
E. INSTALL SHEILD ASSEMBLY GROUND MOUNTED
F. INSTALL 12" BLACK FACED NEARSIDE SGNAL HEAD AS SHOWN
G. ADJUST AND RERING SPAN, RAISE IF NEEDED

WIRING DIAGRAM

D,E 5 CONDUCTOR ELECTRICAL
F,G CABLE (NO. 14 AWG)

A,B 7 CONDUCTOR ELECTRICAL
C CABLE (NO. 14 AWG)

EC. EXISTING CABLE

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
9004	81 SF	SHEET ALUMINUM
		SHIELD ASSEMBLY 30"X51" (EAST, MD 190, ARROW RIGHT)
		SHIELD ASSEMBLY 30"X51" (WEST, MD 190, ARROW RIGHT)
		SHIELD ASSEMBLY 48"X75" (WEST, MD 190, ARROW LEFT)
		SHIELD ASSEMBLY 48"X75" (EAST, MD 190, ARROW LEFT)

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5002	180 ~~390~~ LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5003	150 LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5004	550 LF	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS - ANY WIDTH
8000	16 LF	TO BE NEGOTIATED - FURNISH AND INSTALL WOOD SIGN SUPPORTS 4 INCH X 6 INCH
8001	1 EA	ADJUST AND RE-RING EXISTING SPAN WIRE (EACH SPAN)
8015	27 EA	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8028	1 EA	REMOVE AND DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8050	10.6 SF	INSTALL GROUND MOUNTED SIGN
8051	61 SF	INSTALL OVERHEAD SIGN
8062	120 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO 14 AWG)
8063	350 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO 14 AWG)

C. MATERIAL TO BE REMOVED AND RETURNED TO SHA.

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

REVISIONS

A. 6-12-91 ADD SIGNS, LOOPS, AND ASBUILD S.H.A. NO. M-651-501-377

RRZ	DOD	DAZ		TH

B. INSTALL NEARSIDE SIGNAL HEAD E/B MD 190 AND UPGRADE SIGNAL HEADS TO BLACK FACED TMS # E336 11/2000

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
MD 190 @ SPRINGFIELD DR

DRAWN BY: J. HENKEL	F.A.P. NO.	TS NO. 3177 B	SHEET NO.
CHECKED BY: M.A.R	S.H.A. NO.		
SCALE: 1" = 20'	COUNTY: MONTGOMERY	T.I.M.S. NO. E336	01 OF 01
DATE: 11/2000	LOG MILE: 15019014.51		