PROJECT DESCRIPTION

THIS PROJECT INVOLVES UPGRADING THE EXISTING HIB FOR S/B MD 213 TO READ FINES DOUBLE WHEN FLASHING, AND INSTALLING A NEW HIB FOR NORTH BOUND MD 213.

EXISTING SIGNS

15	12,18
SPEED LIMIT 50	SCHOOL
R2-1 24"X30"	S1-1A 36" x 48" TO BE REMOVED

PROPOSED SIGNS

14,16	11,12	17
END SCHOOL ZONE	FINES DOUBLE WHEN FLASHING	SPEED LIMIT 50
S5-2 24"X36"	S1-1A 36"X36" S 4-4 36"X36"	R2-1 24"X30"

EXISTING SIGNALS

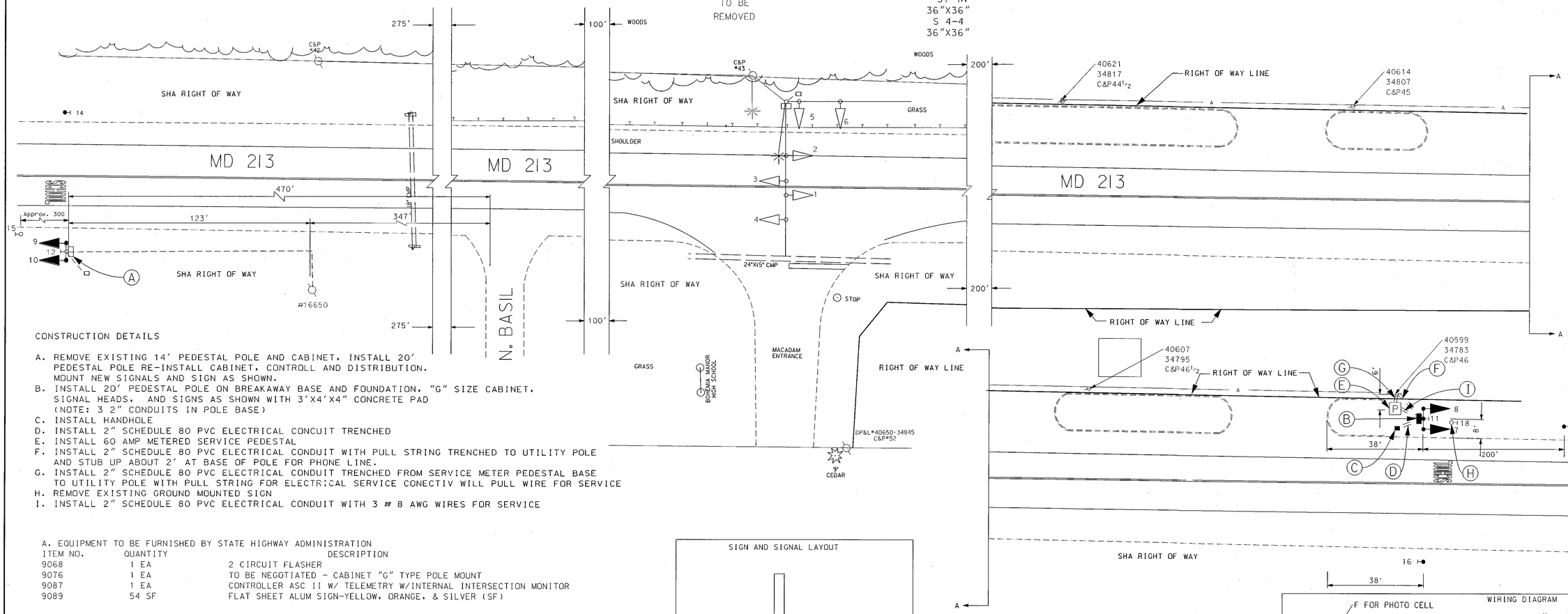
1-4,7,8	5,6
Y	R
12'	12'

PROPOSED SIGNALS

7-10
Y
12' Black Faced

NEMA PHASING

FLASHING OPERATION



CONSTRUCTION DETAILS

A. REMOVE EXISTING 14' PEDESTAL POLE AND CABINET, INSTALL 20' PEDESTAL POLE RE-INSTALL CABINET, CONTROLL AND DISTRIBUTION. MOUNT NEW SIGNALS AND SIGN AS SHOWN.
B. INSTALL 20' PEDESTAL POLE ON BREAKAWAY BASE AND FOUNDATION, "G" SIZE CABINET, SIGNAL HEADS, AND SIGNS AS SHOWN WITH 3'X4'X4" CONCRETE PAD (NOTE: 3 2" CONDUITS IN POLE BASE)
C. INSTALL HANDHOLE
D. INSTALL 2" SCHEDULE 80 PVC ELECTRICAL CONCUIT TRENCHED
E. INSTALL 60 AMP METERED SERVICE PEDESTAL
F. INSTALL 2" SCHEDULE 80 PVC ELECTRICAL CONDUIT WITH PULL STRING TRENCHED TO UTILITY POLE AND STUB UP ABOUT 2' AT BASE OF POLE FOR PHONE LINE.
G. INSTALL 2" SCHEDULE 80 PVC ELECTRICAL CONDUIT TRENCHED FROM SERVICE METER PEDESTAL BASE TO UTILITY POLE WITH PULL STRING FOR ELECTRICAL SERVICE CONECTIV WILL PULL WIRE FOR SERVICE
H. REMOVE EXISTING GROUND MOUNTED SIGN
I. INSTALL 2" SCHEDULE 80 PVC ELECTRICAL CONDUIT WITH 3 # 8 AWG WIRES FOR SERVICE

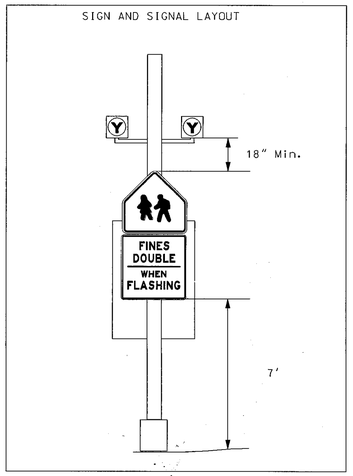
A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
9068	1 EA	2 CIRCUIT FLASHER
9076	1 EA	TO BE NEGOTIATED - CABINET "G" TYPE POLE MOUNT
9087	1 EA	CONTROLLER ASC II W/ TELEMETRY W/INTERNAL INTERSECTION MONITOR
9089	54 SF	FLAT SHEET ALUM SIGN-YELLOW, ORANGE, & SILVER (SF)

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8000	1 EA	TO BE NEGOTIATED - REMOVE GROUND MOUNTED SIGNS AND SUPPORTS
8000	1 EA	TO BE NEGOTIATED - 60 AMP METERED SERVICE PEDESTAL
8001	1.5 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8003	2 EA	FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (ANY SIZE)
8019	2 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT
8024	40 LF	FURNISH AND INSTALL 2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8033	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8034	2 EA	FURNISH AND INSTALL GROUND ROD -3/4 INCH DIAMETER X 10 FOOT LENGTH
8035	1 EA	FURNISH AND INSTALL CONNECTOR KIT - TYPE 1
8036	1 EA	FURNISH AND INSTALL CONNECTOR KIT - TYPE 2
8043	100 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO 14 AWG)
8047	60 LF	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG- THHN/THWN
8048	30 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8050	48LF	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4 INCH X 4 INCH
8052	8 SF	INSTALL GROUND MOUNTED SIGN
8053	36 SF	INSTALL OVERHEAD SIGN
8060	1 EA	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
8066	1 EA	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT (120/240 V, 1 PHASE 3 WIRE SYSTEM)
8069	2 EA	FURNISH AND INSTALL PHOTOCELL
8084	4 EA	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION

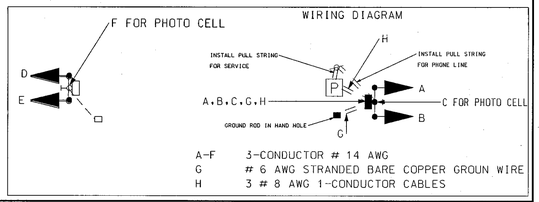
SIGN AND SIGNAL LAYOUT



GENERAL NOTES:

1. SERVICE WILL BE PROVIDED BY CONNECTIV JOB # 5857686 UTILITY DESIGNER BILL McMULLIN SERVICE ADDRESS WILL BE 2852 AUGUSTINE HERMAN HIGHWAY

WIRING DIAGRAM



A-F 3-CONDUCTOR # 14 AWG
G # 6 AWG STRANDED BARE COPPER GROUN WIRE
H 3 # 8 AWG 1-CONDUCTOR CABLES

REVISIONS	APPROVALS
A INSTALL NEW HIB FOR N/B MD 213 AND UPGRADE EXISTING HIB FOR S/B SHAM XX1005185	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 213 @ BOHEMIA MANOR HIGH SCHOOL

REDRAWN BY: J. Henkel	F.A.P. NO.	TS NO. TS-3793 A	SHEET NO.
CHECKED BY:	S.H.A. NO.		
SCALE: 1" - 20'	COUNTY: CECIL	T.I.M.S. NO. E062	1 OF 2
DATE: 8/2000	LOG MILE: 0702I308.18		