NOTE:
MD 331 IS ASSUMED TO RUN IN NORTH-SOUTH DIRECTION.

EXISTING SIGNS TO REMAIN

7,9: S1-1 36"x36"; W16-7P 21"x15"

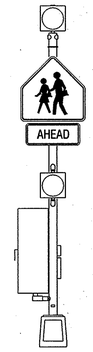
8,10: S1-1 36"x36"; W16-7P 21"x15"

EXISTING SIGNS TO BE REMOVED

11,12: S1-1 36"x36"; S4-3 36"x12" (SCHOOL)

PROPOSED SIGNS

5,6: S1-1 36"x36" BLACK/FYG; S4-4(3) 30"x12" BLACK/FYG (AHEAD)



SCHOOL WARNING
HIB-TYPE 2
NOT TO SCALE

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING UTILITY COMPANIES TO VERIFY THE LOCATIONS OF ALL UTILITIES.

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF TWO SCHOOL HAZARD IDENTIFICATION BEACONS ON MD 331 (MAIN STREET) IN PRESTON, MARYLAND.

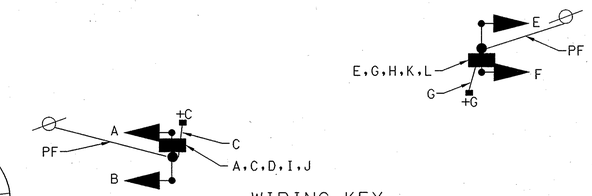
SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT 410-787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND TELEPHONE NUMBER.

SIGNALS

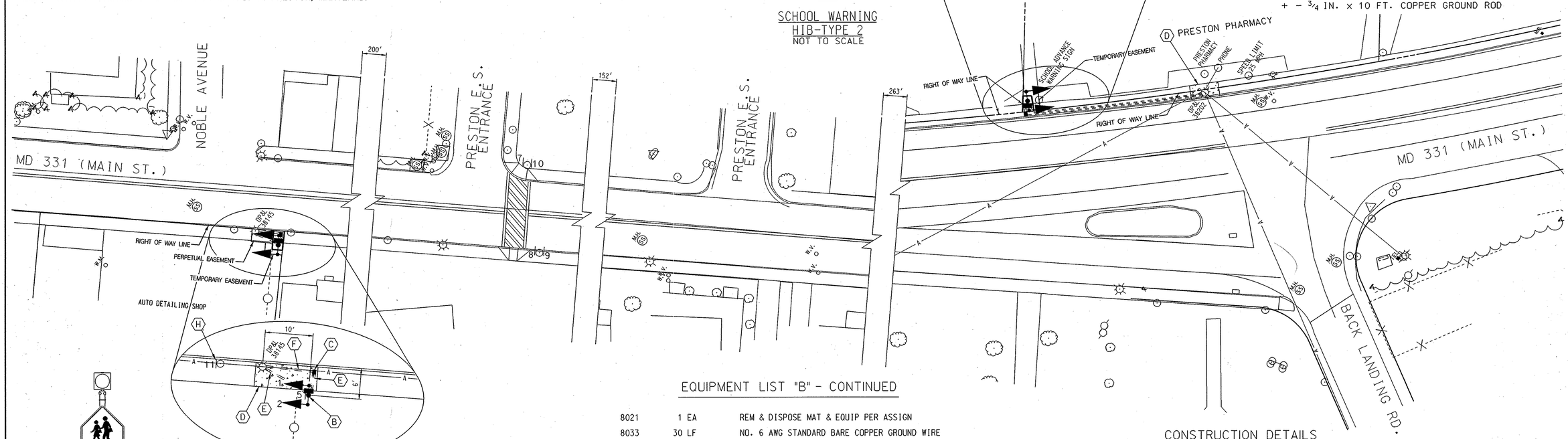
1,2,3,4: Y 12"

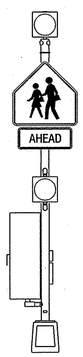
WIRING DIAGRAM



WIRING KEY

A,B,E,F } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG
C,G, } STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
D,H,I,J,K,L} 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG)
PF - POWER FEED (UNDERGROUND)
+ - 3/4 IN. x 10 FT. COPPER GROUND ROD





SCHOOL WARNING
HIB-TYPE 2
NOT TO SCALE

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

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
9012	2 EA	[UPDATED] 2 CIRCUIT FLASHER
9037	2 EA	[UPDATED] CABINET "G" TYPE POLE MOUNT
9571	24 SF	[UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	2 CY	TEST PIT EXCAVATION
6004	225 SF	4 INCH CONCRETE SIDEWALK
8001	2 CY	CONCRETE FOUNDATION
8020	2 EA	PED POLE (ANY SIZE)

EQUIPMENT LIST "B" - CONTINUED

8021	1 EA	REM & DISPOSE MAT & EQUIP PER ASSIGN
8033	30 LF	NO. 6 AWG STANDARD BARE COPPER GROUND WIRE
8038	165 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
8040	15 LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8041	25 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8047	2 EA	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS
8048	990 LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG-THHN/THWN
8054	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8057	24 SF	INSTALL OVERHEAD SIGN
8072	2 EA	CONNECTOR KIT - TYPE I
8073	2 EA	CONNECTOR KIT - TYPE II
8076	2 EA	GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
8086	80 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8096	2 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT
8103	4 EA	NEG - APPROVED - FURNISH AND INSTALL 12 INCH SIGNAL HEAD SECTION-LED WITH MOUNTING HARDWARE - YELLOW ONLY

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVE AND DISPOSED OF

ALL EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR. NO EQUIPMENT SHALL BE RETURNED TO S.H.A.

CONSTRUCTION DETAILS

A. INSTALL 14' PEDESTIAL POLE WITH TRANSFORMER BASE, LED TRAFFIC SIGNAL HEADS, SIGNS, "G" TYPE FLASHER CABINET AND ELECTRICAL UTILITY SERVICE EQUIPMENT. (NOTE: 1-2" AND 1-3" PVC 90 DEGREE CONDUIT BENDS). CABINET SHALL FACE THE SIDEWALK, SEE HIB TYPE 2 DETAIL.

B. INSTALL 14' PEDESTIAL POLE WITH TRANSFORMER BASE, LED TRAFFIC SIGNAL HEADS, SIGNS, "G" TYPE FLASHER CABINET AND ELECTRICAL UTILITY SERVICE EQUIPMENT. (NOTE: 1-2" AND 1-3" PVC 90 DEGREE CONDUIT BENDS). CABINET SHALL FACE THE SIDEWALK, SEE HIB TYPE 2 DETAIL.

C. INSTALL ELECTRICAL HANDHOLE.

D. INSTALL 4" CONCRETE SIDEWALK.

E. INSTALL 3" SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED.

F. INSTALL 2" SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED.

G. INSTALL 3" SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED.

H. REMOVE EXISTING SIGNS AND SUPPORTS.

TOD No: AT355-18
SHA: CO458A52/B52

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION — 10-3-05

ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION — 10-3-05

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION — 10/4/05

DIRECTOR, TRAFFIC & SAFETY — 10/6/05

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 331 AT PRESTON ELEMENTARY SCHOOL
HIBs ON MD 331 AT NOBLE AVE AND BACK LANDING RD
PRESTON, MARYLAND

DRAWN BY: SMH	F.A.P. NO.	AC-STPG-000S(985)E	TS NO. 4352	SHEET NO.
CHECKED BY: SMH	S.H.A. NO.	AT3555185		
SCALE: 1" = 20'	COUNTY:	CAROLINE	T.I.M.S. NO. G625	1 OF 1
DATE: OCT. 3, 2005	LOG MILE:	05033100.77		