F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD	SEE BELOW	1	2

CONSTRUCTION DETAILS

- (A) INSTALL 27' STEEL POLE WITH 50' AND 70' MAST ARMS, 20 FT. STREET LIGHTING ARM, 250 WATT HPS LUMINAIRE, PEDESTRIAN PUSHBUTTONS, PEDESTRIAN SIGN, SIGNS AND SIGNALS AS SHOWN. (NOTE: 1-4" AND 1-2" PVC SCHEDULE 80 CONDUIT BENDS, 1-3" WEATHER HEAD AND 4-1-3/4" X 96" ANCHOR BOLTS)
- (B) INSTALL 27' STEEL POLE WITH A SINGLE 70' MAST ARM, 20 FT. STREET LIGHTING ARM, 250 WATT HPS LUMINAIRE,SIGNAL HEADS AND SIGNS. (NOTE: 1-3" PVC SCHEDULE 80 CONDUIT BEND AND 4-1-3/4" X 96" ANCHOR BOLTS)
- (C) INSTALL 27' STEEL POLE WITH SINGLE 38 MAST ARM, PEDESTRIAN PUSHBUTTONS, PEDESTRIAN SIGN, SIGNAL HEADS AND SIGNS. (NOTE: 1-3" PVC SCHEDULE 80 CONDUIT BEND AND 4-1-3/4" X 96" ANCHOR BOLTS)
- (D) INSTALL BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT. (NOTE: 2-4", 1-3" AND, 1-2" PVC SCHEDULE 80 CONDUIT BENDS).
- (E) INSTALL 6' X 30' QUADRUPOLE LOOP DETECTOR (3-6-3 TURNS).
- (F) INSTALL TRAFFIC SIGNAL HANDHOLE.
- (G) INSTALL 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT SLEEVE FOR LOOP DETECTOR LEAD-IN.
- (H) INSTALL 2" PVC SCHEDULE 80 CONDUIT - TRENCHED.
- (I) INSTALL 3" PVC SCHEDULE 80 CONDUIT - TRENCHED.
- (J) INSTALL 4" PVC SCHEDULE 80 CONDUIT - TRENCHED.
- (K) INSTALL 4" PVC SCHEDULE 80 CONDUIT - BORED.
- (L) INSTALL 3" RIGID PVC CONDUIT SCHEDULE 80 - SLOTTED.
- (M) USE EXISTING HANDHOLE.
- (N) REMOVE AND SALVAGE EXISTING CABINET.
- (O) REMOVE SPAN WIRE, SIGNAL HEADS, ASSOCIATED WIRING AND SIGNS.
- (P) REMOVE STRAIN POLE, FOUNDATION, AND GROUND ROD.
- (Q) REMOVE EXISTING PAVEMENT MARKINGS.
- (R) INSTALL 12 INCH PERMANENT PREFORMED PAVEMENT MARKING TAPE.
- (S) REMOVE EXISTING PAVEMENT MARKINGS AND INSTALL 24 INCH PERMANENT PREFORMED PAVEMENT MARKING TAPE.
- (T) INSTALL W3-3 GROUND MOUNTED SIGN.
- (U) PROPOSED OVERHEAD POWER SERVICE.

SIGNAL HEADS

SIGNAL HEADS 1-14 ARE PROPOSED

1,4 — 12"/8"; 2,5 — 12"; 3,6,8, 9,11,12 — 12"; 7,10 — 8"; 13,14 — 12"

SIGNS

15,16,23,24 — W3-3 36" x 36"; 17,18,25,26 — S1-1 30" x 30"; 19,21 — D-3(1) VAR. x 32" (Beech Tree <RD 7600>, Nevis <RD 7500>); 20,29 — R10-12 36" x 42" (LEFT TURN YIELD ON GREEN); 22,27 — S2-1 30" x 30"

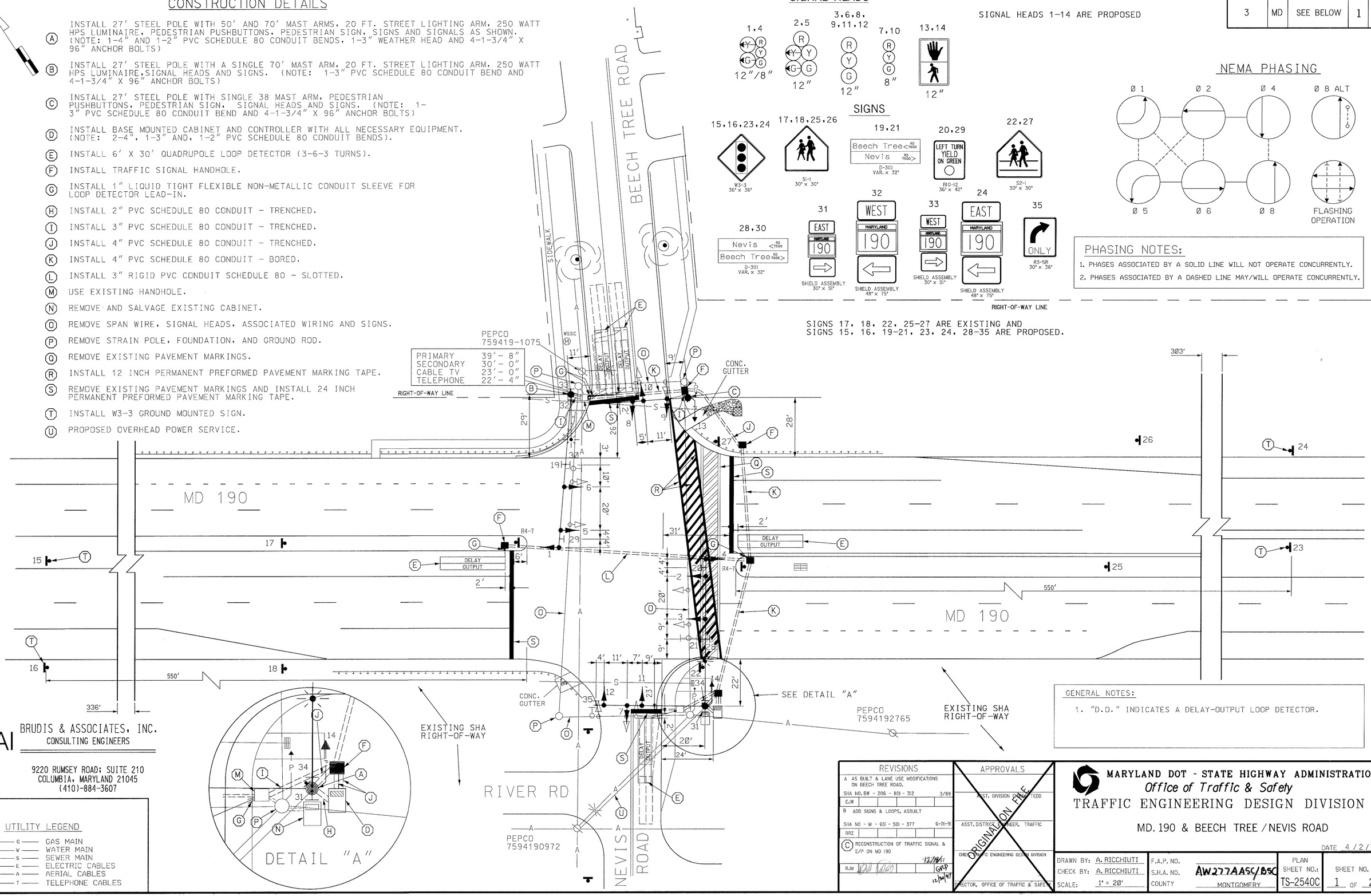
28,30 — D-3(1) VAR. x 32" (Nevis <RD 7500>, Beech Tree <RD 7600>); 31 — EAST MARYLAND 190, SHIELD ASSEMBLY 30" x 51"; 32 — WEST MARYLAND 190, SHIELD ASSEMBLY 48" x 75"; 33 — WEST MARYLAND 190, SHIELD ASSEMBLY 30" x 51"; 24 — EAST MARYLAND 190, SHIELD ASSEMBLY 48" x 75"; 35 — R3-5R 30" x 36" (ONLY)

SIGNS 17, 18, 22, 25-27 ARE EXISTING AND SIGNS 15, 16, 19-21, 23, 24, 28-35 ARE PROPOSED.

NEMA PHASING

PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.



GENERAL NOTES:

1. "D.O." INDICATES A DELAY-OUTPUT LOOP DETECTOR.

BAI BRUDIS & ASSOCIATES, INC.
CONSULTING ENGINEERS
9220 RUMSEY ROAD; SUITE 210
COLUMBIA, MARYLAND 21045
(410)-884-3607

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	APPROVALS
A AS BUILT & LANE USE MODIFICATIONS ON BEECH TREE ROAD. SHA NO. BW - 206 - 801 - 312 3/89 EJW	ASST. DIVISION CHIEF, TEDD
B ADD SIGNS & LOOPS, ASBUILT SHA NO - M - 651 - 501 - 377 6-21-91 RRZ	ASST. DISTRICT ENGINEER, TRAFFIC
C RECONSTRUCTION OF TRAFFIC SIGNAL & E/P ON MD 190 12/18/97 RJM GCP 12/31/97	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD. 190 & BEECH TREE / NEVIS ROAD

DATE 4/2/73

DRAWN BY: A. RICCHIUTI	F.A.P. NO.	PLAN SHEET NO.:	SHEET NO.
CHECK BY: A. RICCHIUTI	S.H.A. NO. AW277AASC/BSC	TS-2540C	1 OF 2
SCALE: 1" = 20'	COUNTY MONTGOMERY		