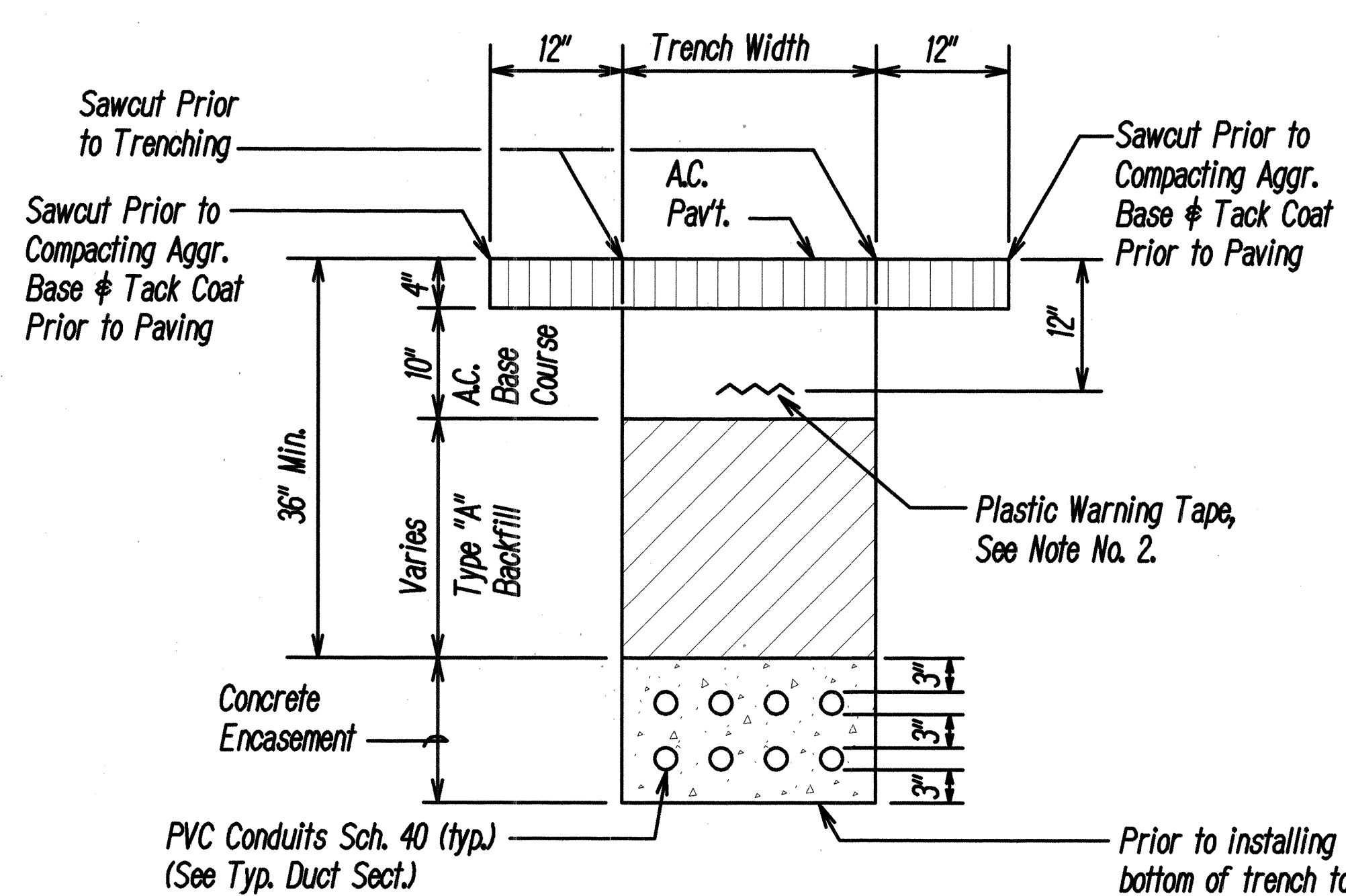


STATE RIGHT-OF-WAY BACKFILL NOTES

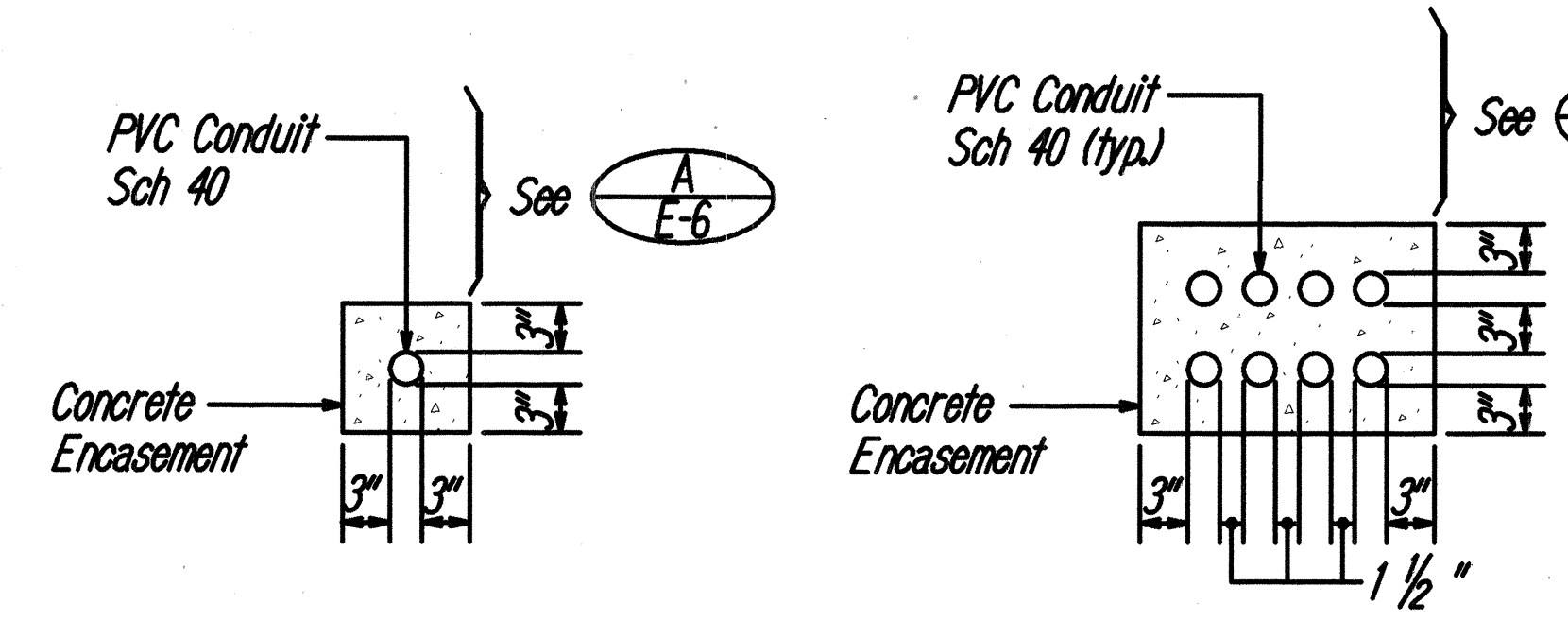
- Trench Backfill Material "A" Beach Sand, Earth, or Earth and Gravel if Earth and Gravel used, the maximum shall contain not more than 50% by volume of rock particles. Maximum 8" loose fill per lift. Obtain 95% compaction for each lift.
- Concrete 2500 PSI Compressive Strength @ 3 Days.
- NOTE: Base Course & Sub-Base Course per 1994 State Standard Specifications for Highway Construction.

GENERAL NOTES

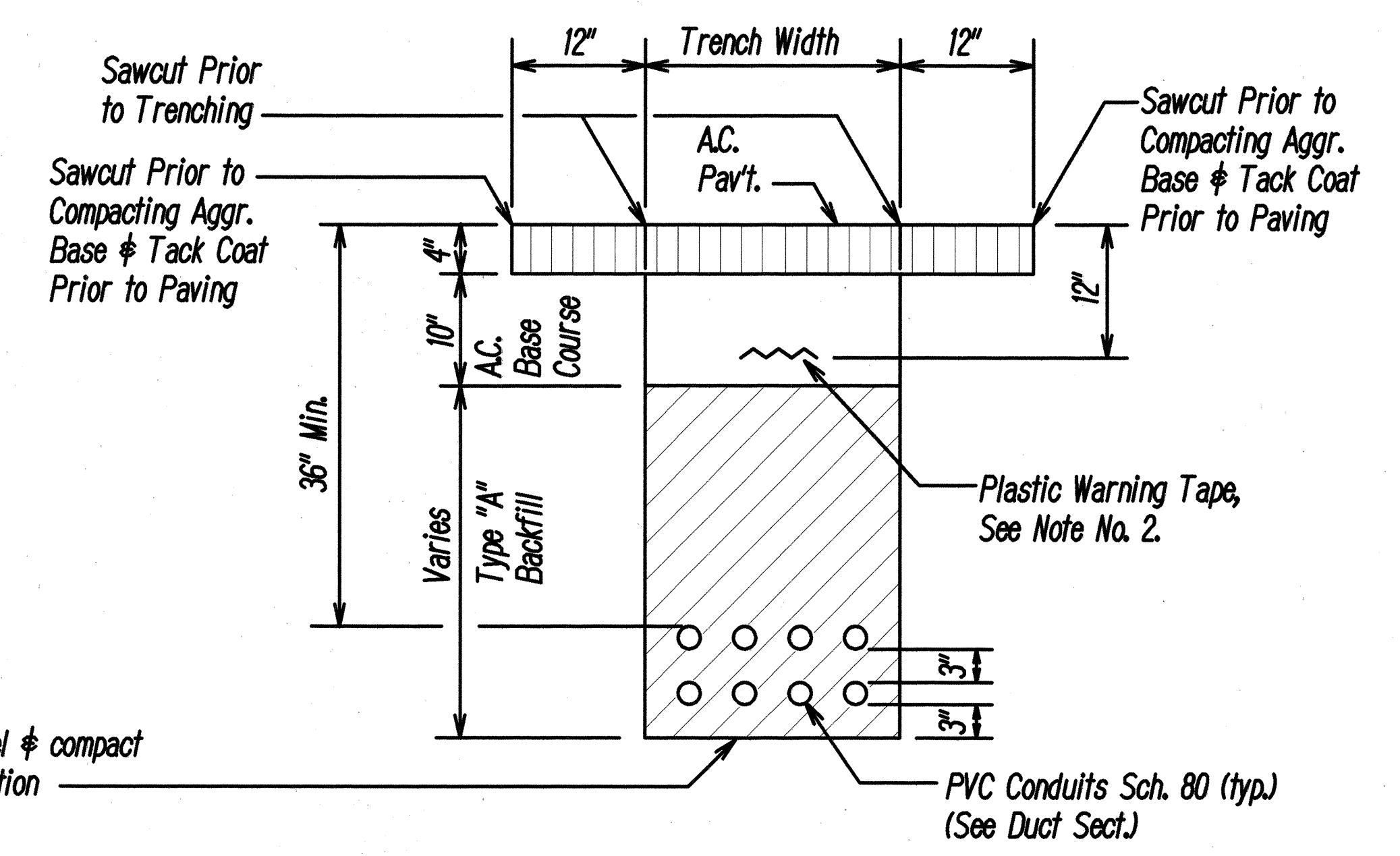
- If trench is located on unpaved area, the Contractor shall replace 10" A.C. Base Course and 4" A.C. Pavement with Type "A" backfill material.
- The Metal Detectable High Fluorescence Yellow Plastic Warning Tape shall be a minimum 5 mils thick and 4" wide with a continuous metallic backing and corrosion resistant 1 mil thick foil core. The tape shall read, "CAUTION - STATE TRAFFIC SIGNAL AND/OR HWY LIGHTING BURIED BELOW," utilizing 3 inch series "C" lettering. The message will be repeated with a 12-inch spacing between the end and beginning of repeated message.
- The Contractor may begin backfilling the conduit trench when the concrete reaches 3000 psi compressive strength after 3 days. During concrete curing, contractor shall provide traffic rated steel plating over excavations. Cost for the steel plates shall be considered incidental to the trenching cost.
- Maximum four (4) Conduits per Row for multiple conduit duct section.
- For direct buried duct sections, the concrete jacket required at the conduit by-pass for various utilities, shall not be paid for separately but considered incidental to the direct buried conduits.
- After installing all the traffic signal cables, the Contractor shall duct seal all conduits in the pullboxes, traffic signal standards and traffic signal controller cabinet concrete base. The duct seal material shall be approved by the Traffic Signal Inspector/Engineer and shall not be paid for separately but considered incidental to the direct buried and/or concrete encased conduits.



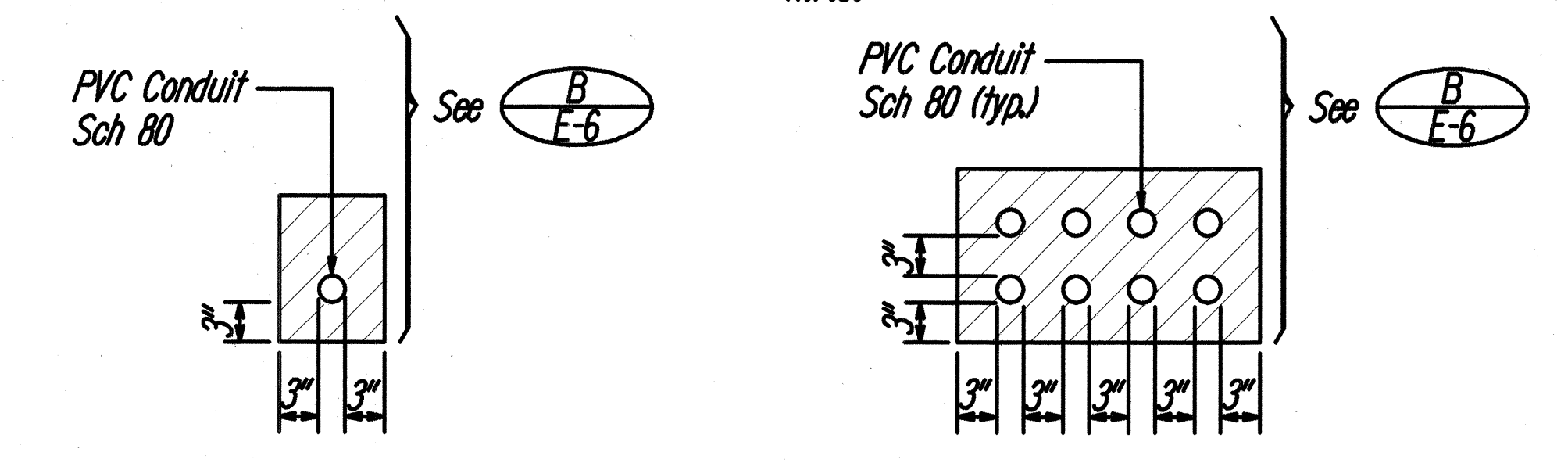
A E-6 TYPICAL BACKFILL SECTION WITH CONCRETE ENCASED DUCTS N.T.S.



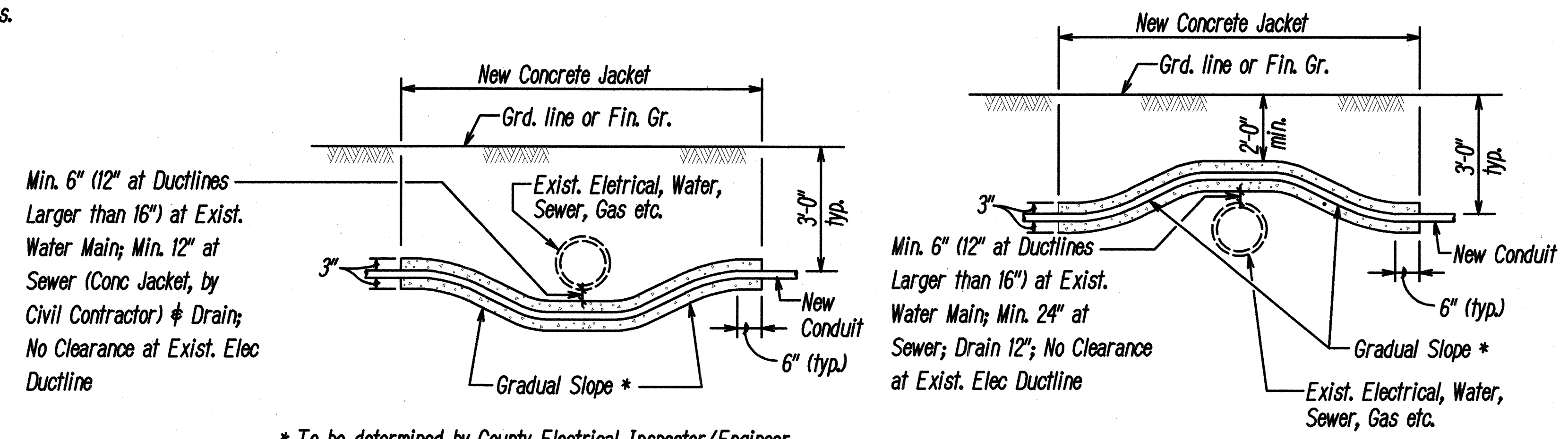
C E-6 TYPICAL DUCT SECTIONS - CONC. ENCASED N.T.S.



B E-6 TYPICAL BACKFILL SECTION DIRECT BURIED DUCTS N.T.S.



D E-6 TYPICAL DUCT SECTIONS - DIRECT BURIED N.T.S.



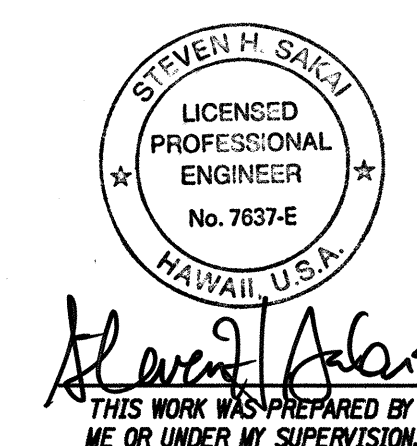
E E-6 CONDUIT BY-PASS DETAIL AT VARIOUS UTILITIES N.T.S.

* To be determined by County Electrical Inspector/Engineer

DATE	
ORIGINAL PLAN	
DRAWN BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
DATE	

22 MAR 100 11:40:54 RN Z:\A\CD\PROJECTS\99164\99164.DWG

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-061-K(34)	2000	28	38



3/28/00	Add concrete jacket over existing sewer for electrical crossing underneath
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TYPICAL BACKFILL SECTION DETAILS PALI HIGHWAY INTERSECTION IMPROVEMENTS AT JACK LANE PROJECT NO. STP-061-K(34) Scale: As Shown Date: SHEET No. E-6 OF 13 SHEETS	