

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-05-04	2004	14	33

STATE RIGHT-OF-WAY BACKFILL NOTES

Trench Backfill Material "B"
1. Sand Equivalent ≥ 2
2. 8" Max. Lift Loose
3. 95% Compaction

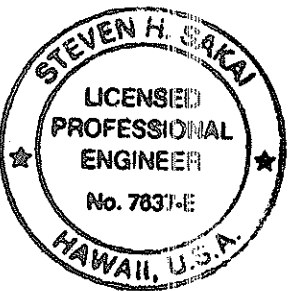
Trench Backfill Material "A"
1. Sand Equivalent ≥ 20
2. 8" Max. Lift Loose
3. 95% Compaction

If Material Below Duct Is Not Equivalent To Backfill Material "A", Excavate Material & Provide 3" Backfill Material "A", See Above

Concrete - 3" Encasement, 3000 PSI Compressive Strength @ 3 Days.

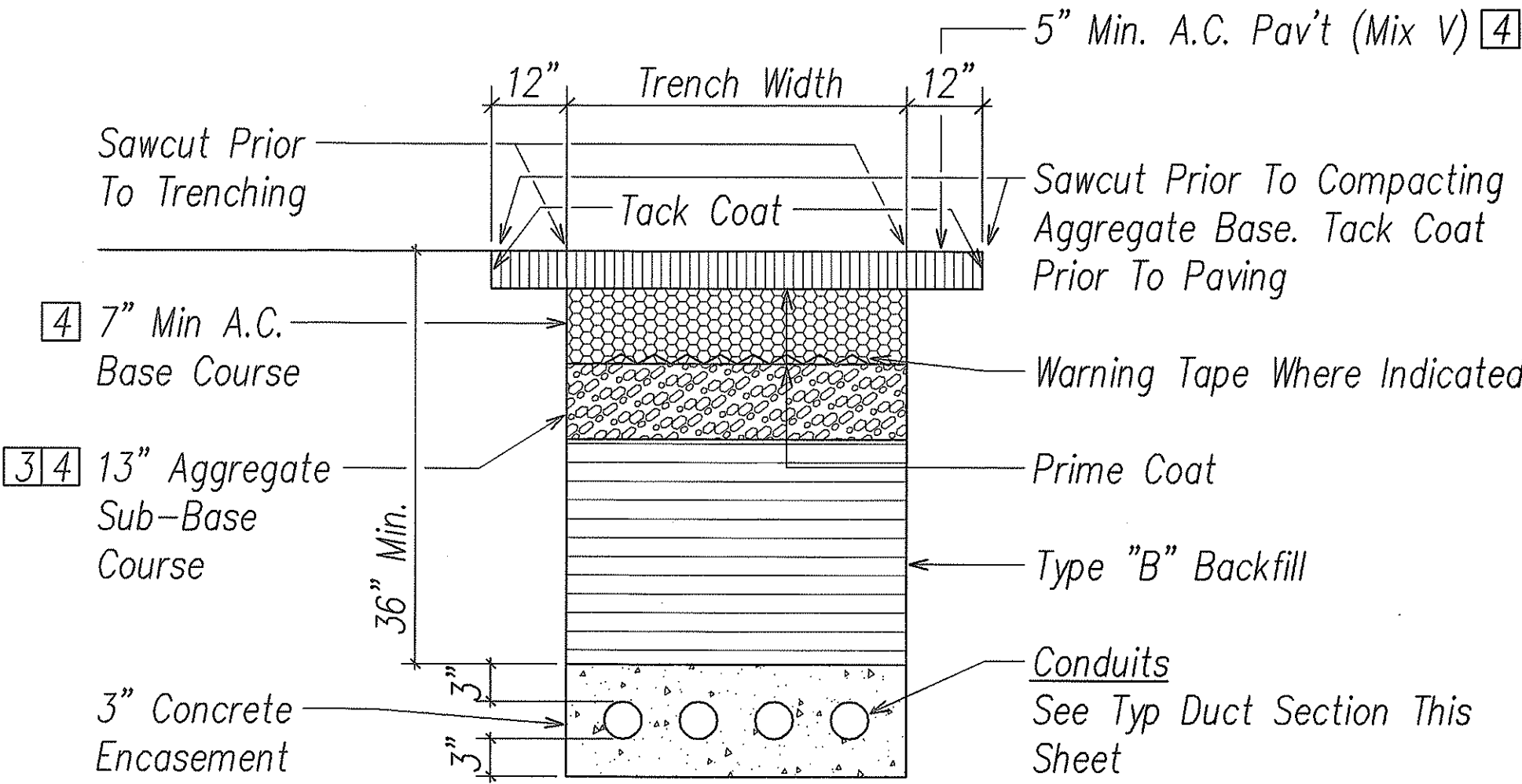
Notes:

- The Metal Detectable Red Warning Tape shall be a Minimum of 5 Mils Thick and 4" Wide with a Continuous Metallic Backing and Corrosion Resistant 1 $\pm$ Mil Thick Foil Core. The Message on the Tape shall Read, "Caution - State Traffic Signal and/or Hwy Lighting Buried Below," Utilizing 2 Inch Series "C" Black Lettering. The Message will be Repeated with a 36-inch Spacing.
- Warning Tape Per Verizon Hawaii Standards.
- Base Course & Sub-Base Course Per 1994 State Standard Specifications For Highway Construction.
- A.C. Pavement And Base Course, & Aggregate Sub-Base To Match Existing Thickness Or The Minimum Thickness Shown, Whichever Is Greater.

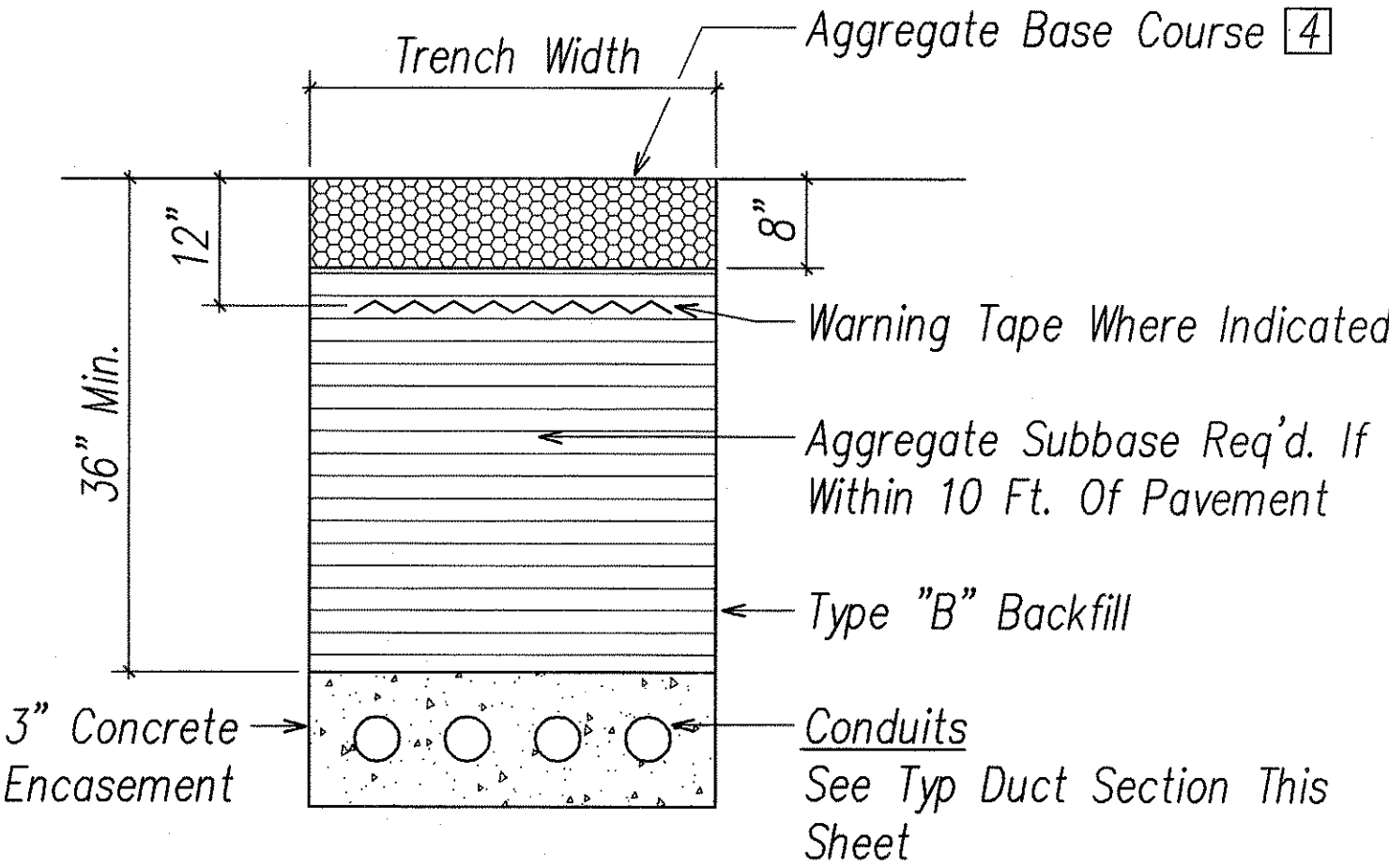


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Steven H. Sakai

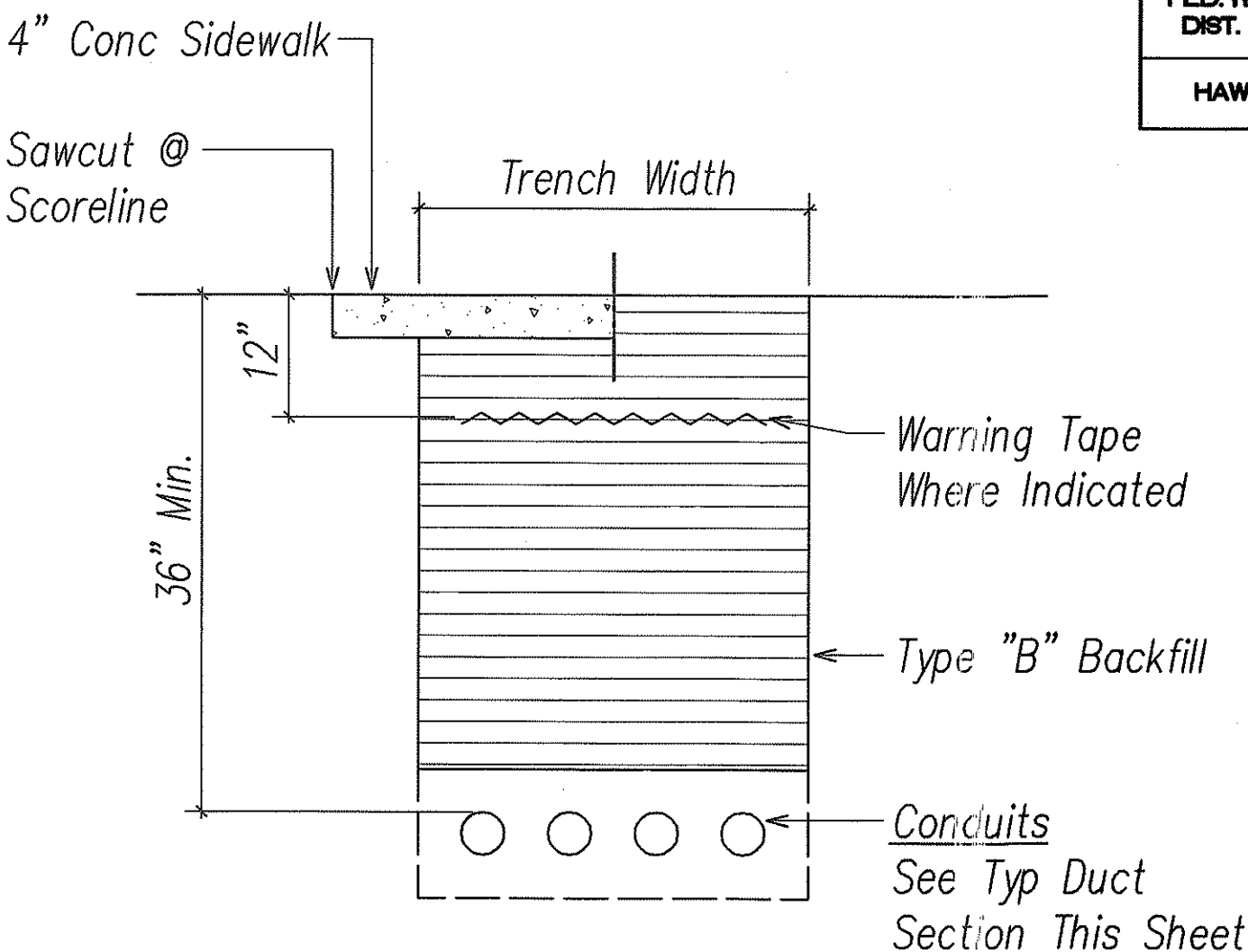
Scale: AS NOTED Date: MAY 2004
SHEET No. E-5 OF 12 SHEETS



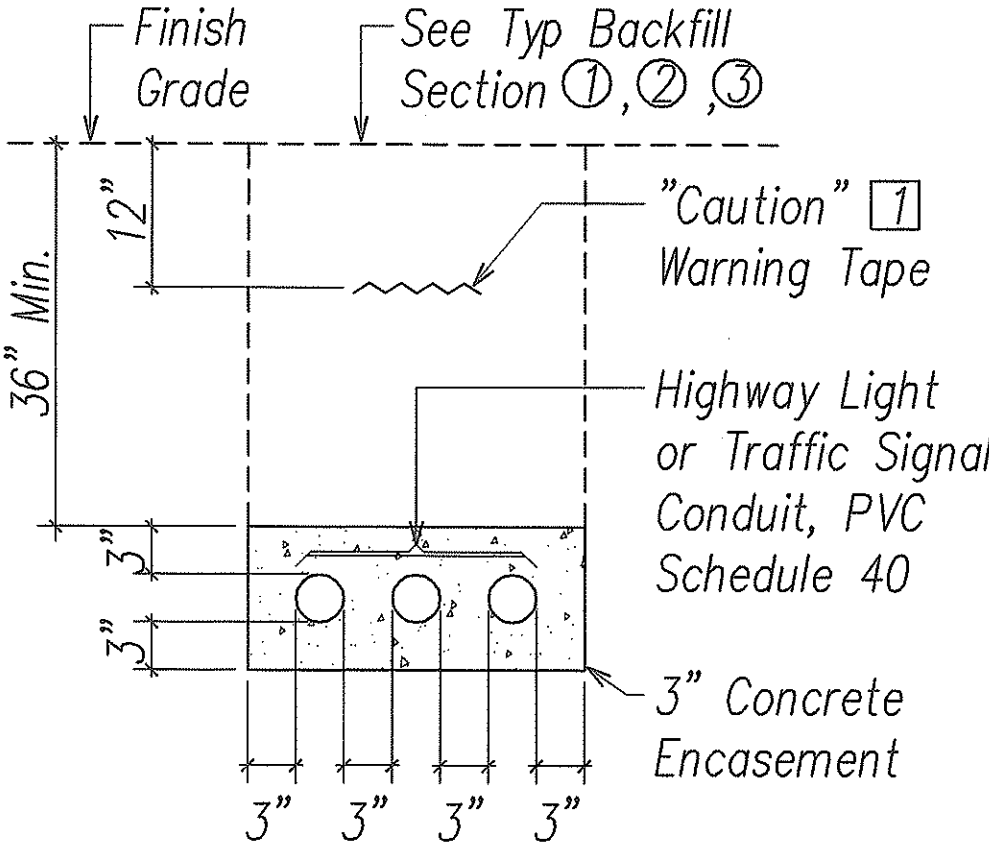
① BACKFILL SECTION
Within State Right-of-Way
Under Existing Roadway &
Paved Shoulder



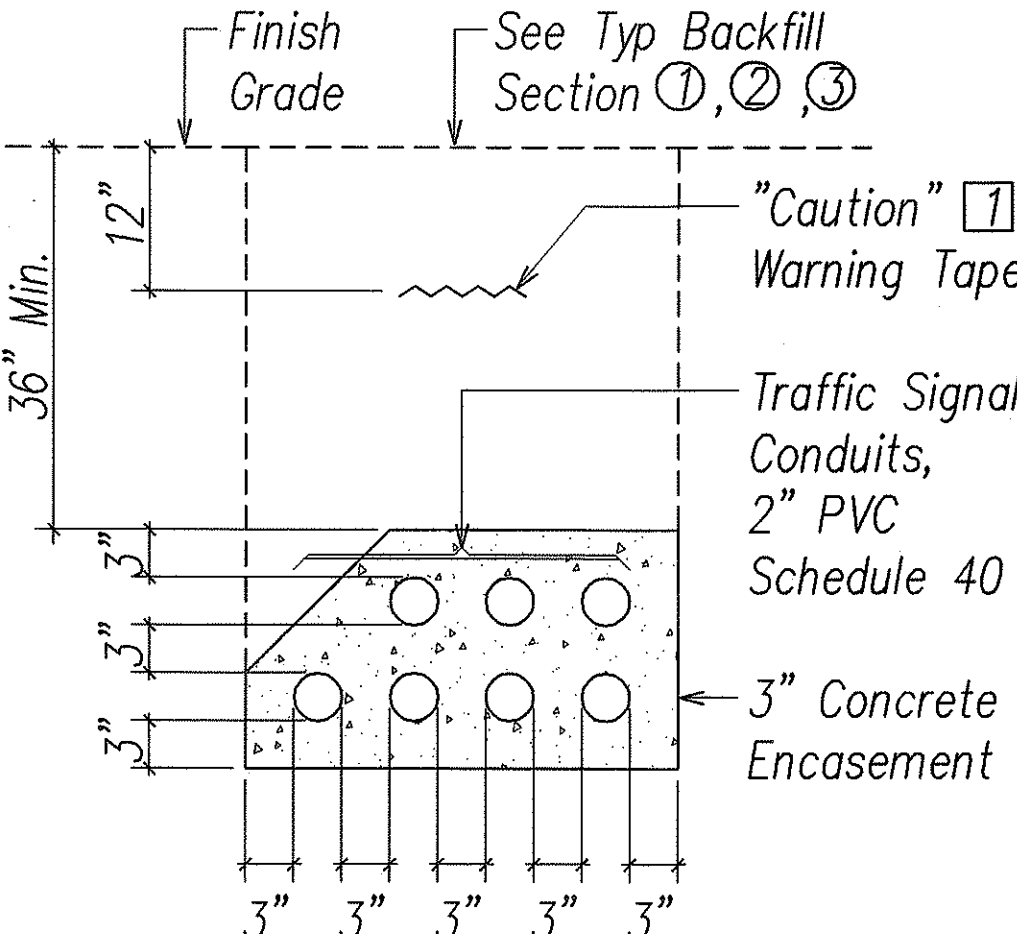
② BACKFILL SECTION
Within State Right-of-Way
Under Unpaved Shoulder



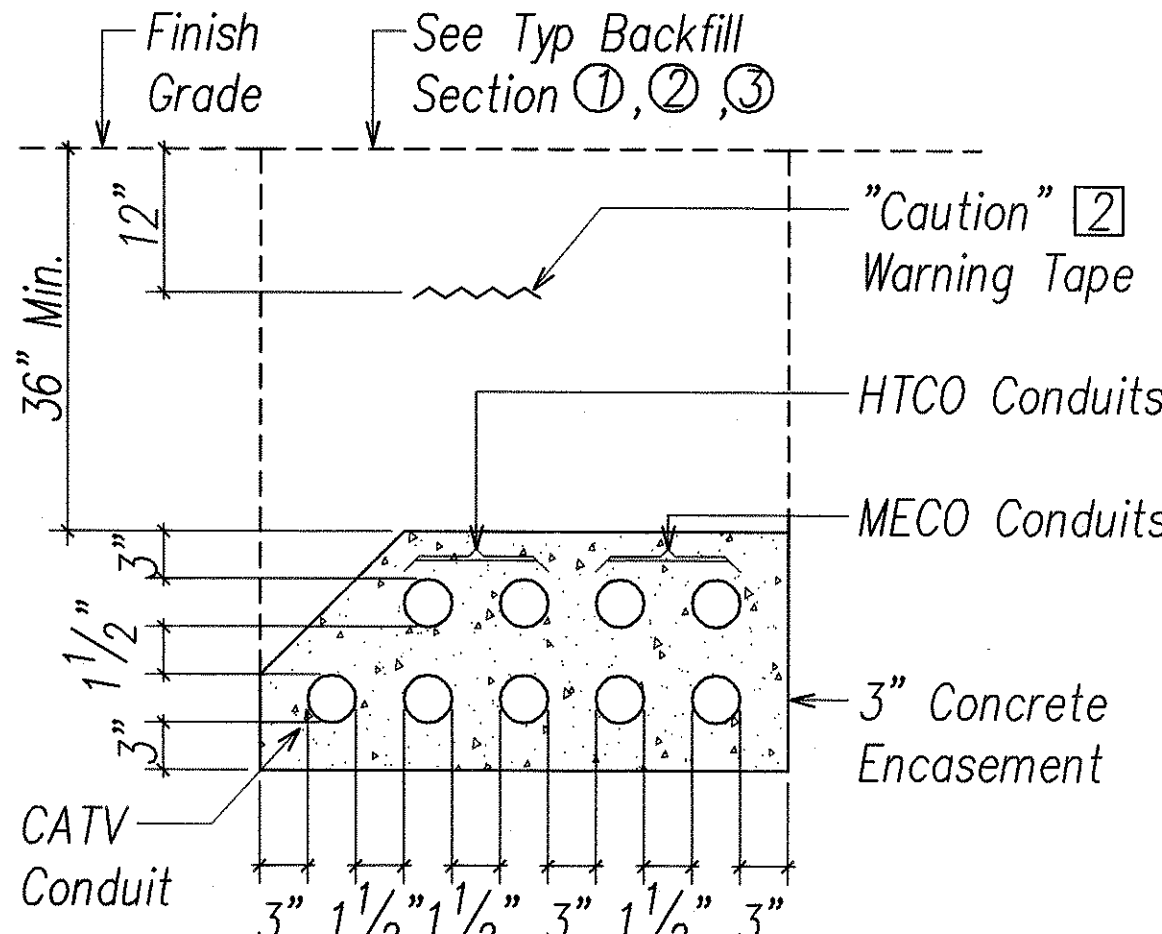
③ BACKFILL SECTION
Within State Right-of-Way
Beyond Unpaved Shoulder
Or Under Concrete Sidewalk



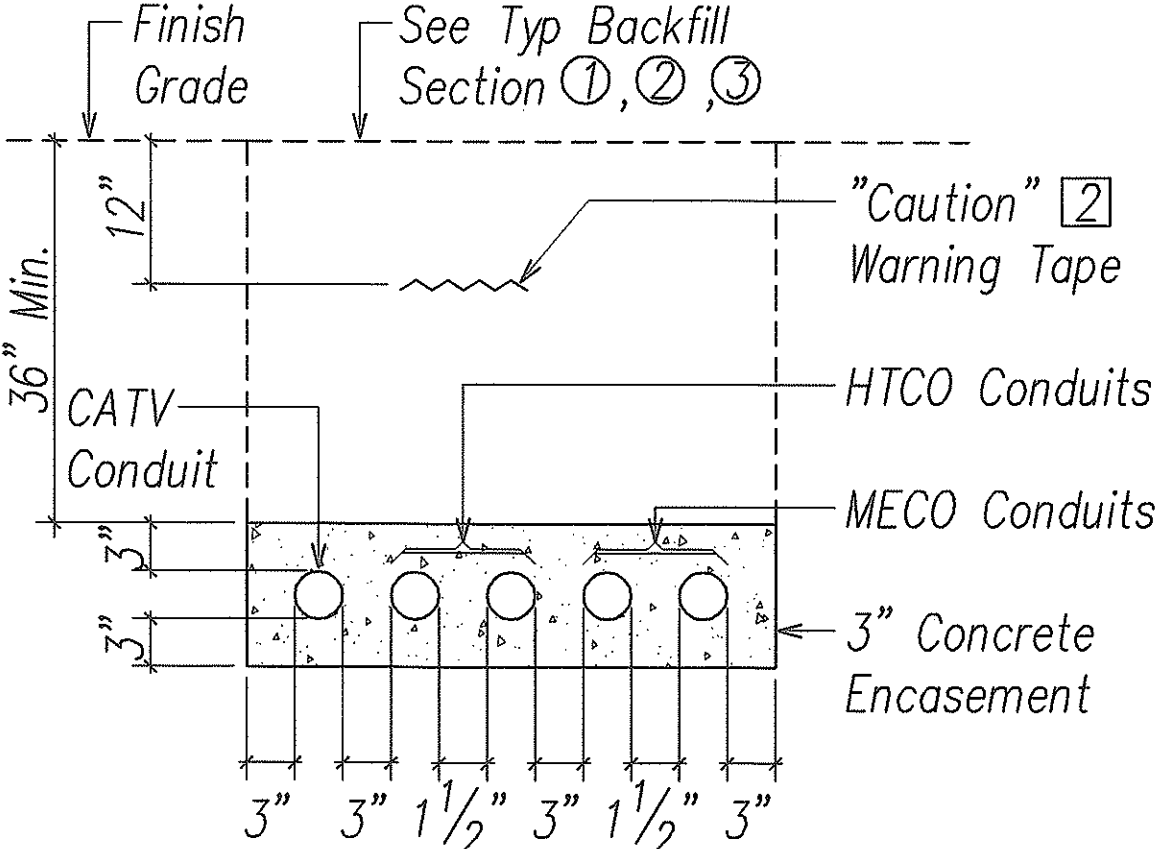
SECTION S-A



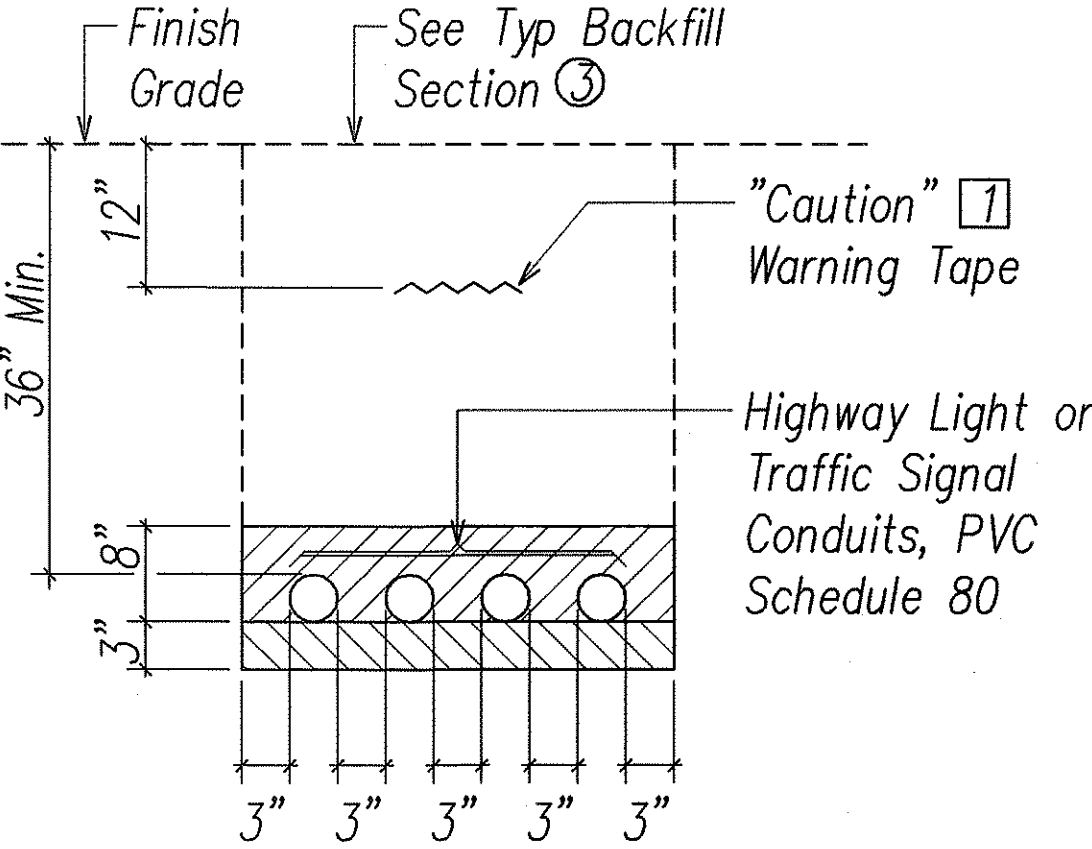
SECTION S-B



SECTION S-C



SECTION S-D



SECTION S-E

Note: For Size & Quantity of Conduits, See Plan Sheets.

TYPICAL DUCT SECTIONS (STATE) NOT TO SCALE

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	CHECKED BY	

LAST SAVE: 04/15/04 © 09/08/98 BY: J.E. PIOT SO: E-5 OF 12
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