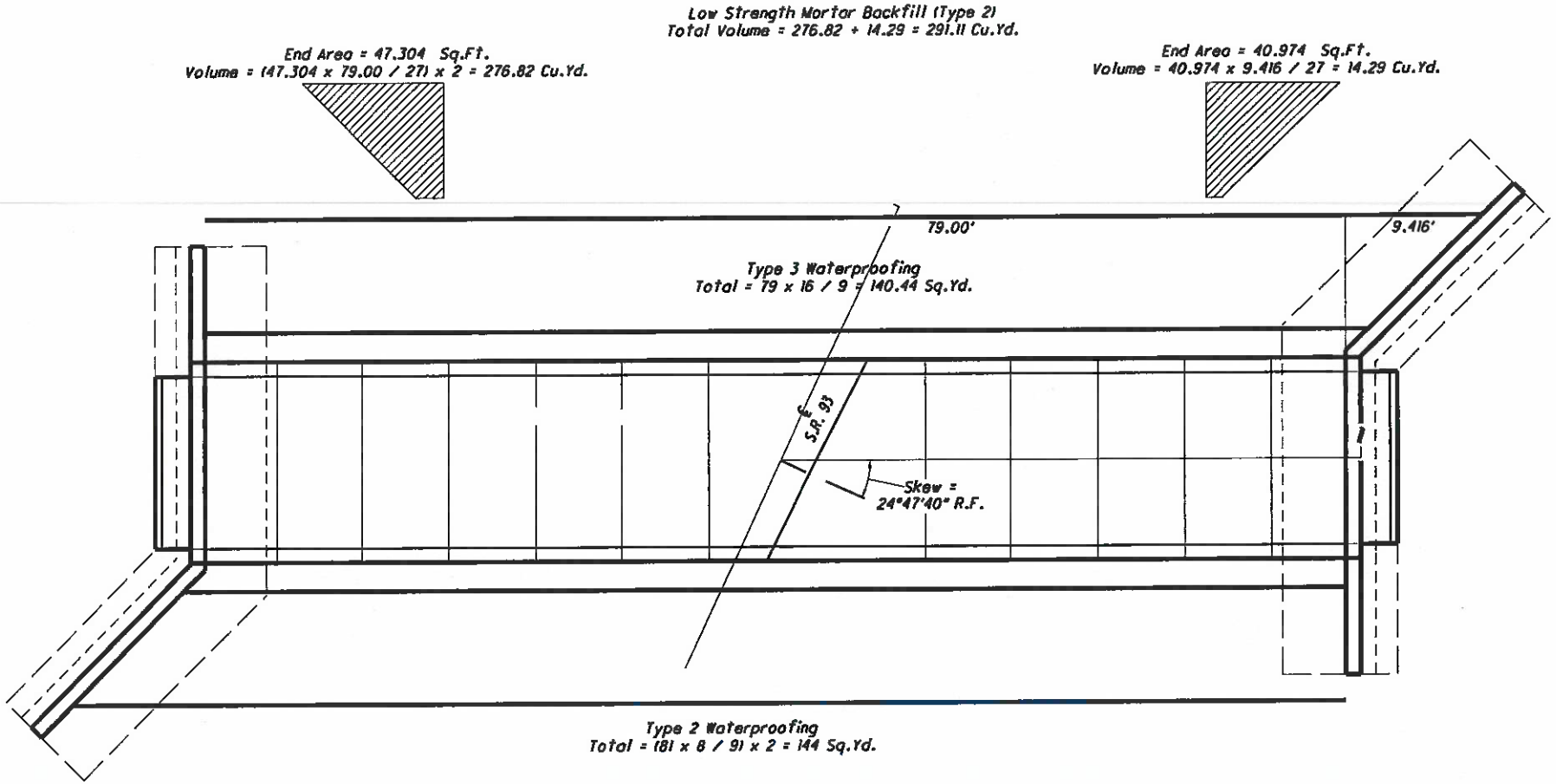

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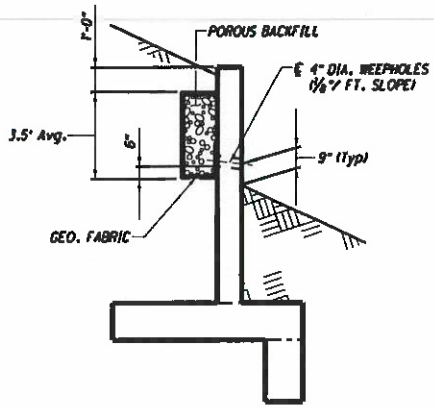
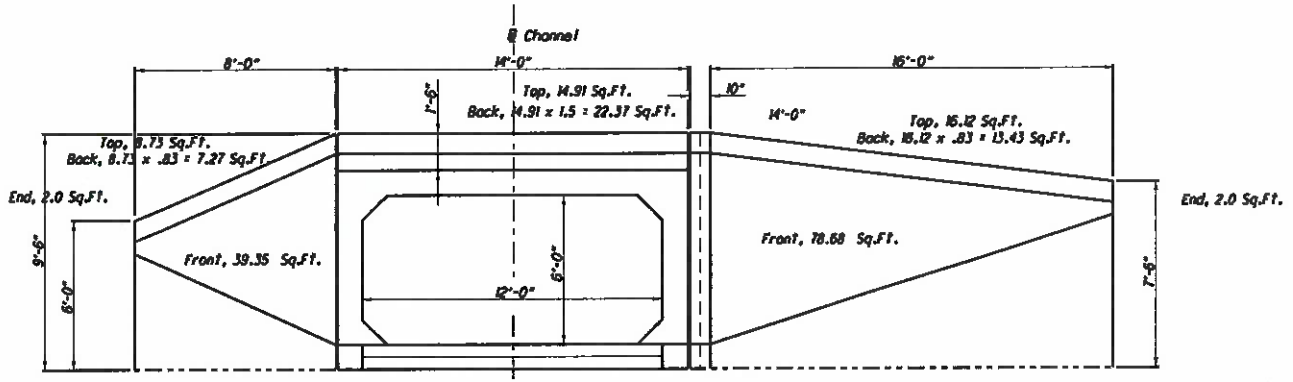


SECTION VIEW

Porous Backfill with Geotextile Fabric
1.) (3.5 x 1.5 x 8 / 27) x 2 = 3.11 Cu.Yd.
2.) (3.5 x 1.5 x 17.87 / 27) x 2 = 6.95 Cu.Yd.
Total = 10 Cu.Yd.



Total Area
2.0 + 39.35 + 7.27 + 8.73 + 14.91 + 22.37 + 16.12 + 13.43 + 2.0 + 78.68 + 50.48 + 67.32 + 24 = 347 Sq.Ft.
347 / 9 = 39 x 2 = 78 Sq.Yds.

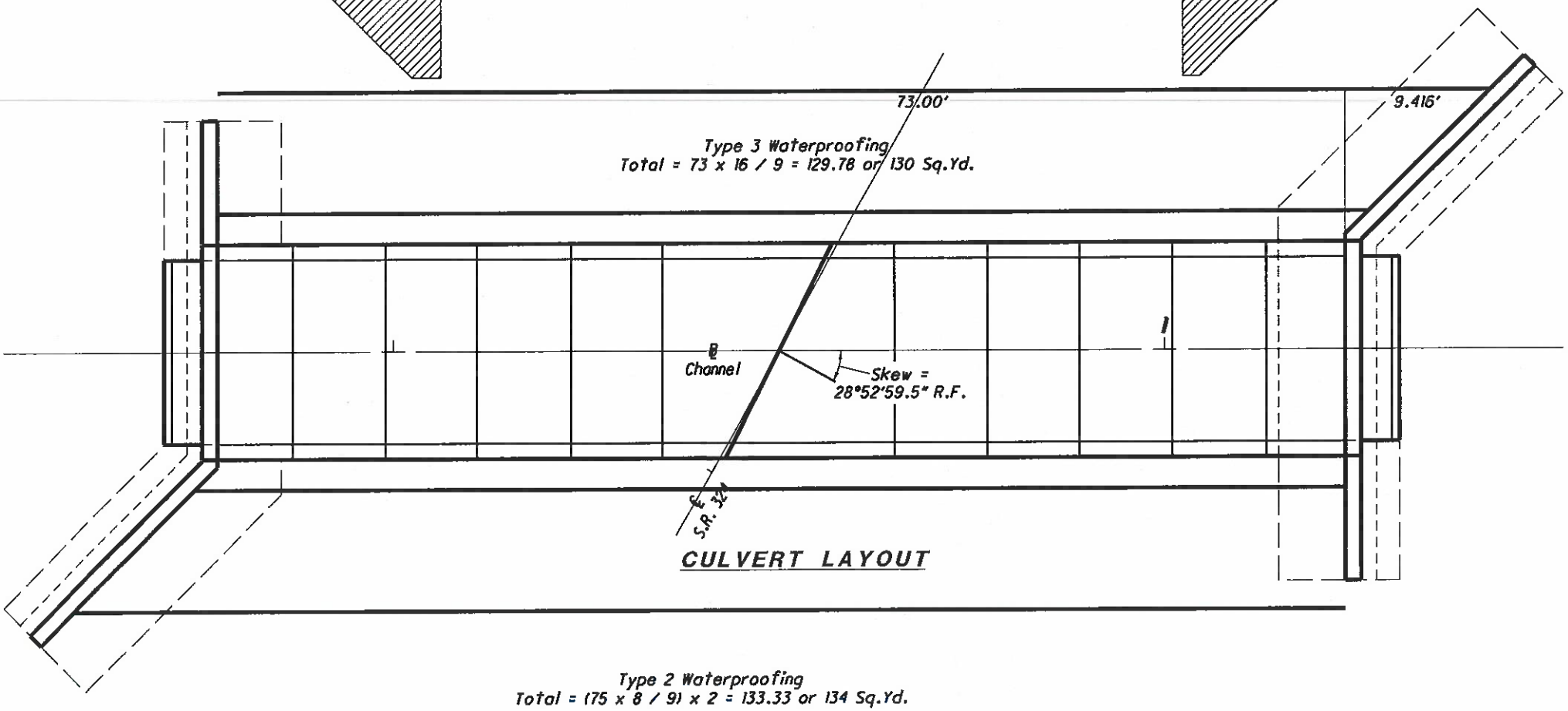
WINGWALL ELEVATION

State Route 93
SLN 12.21

Low Strength Mortar Backfill (Type 2)
Total Volume = 255.79 + 14.29 = 270.08 Cu.Yd.

End Area = 47.304 Sq.Ft.
Volume = (47.304 x 73.00 / 27) x 2 = 255.79 Cu.Yd.

End Area = 40.974 Sq.Ft.
Volume = 40.974 x 9.416 / 27 = 14.29 Cu.Yd.



CULVERT LAYOUT

Type 2 Waterproofing
Total = (75 x 8 / 9) x 2 = 133.33 or 134 Sq.Yd.

State Route 324
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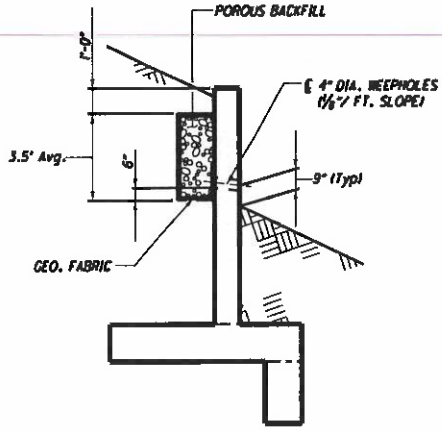
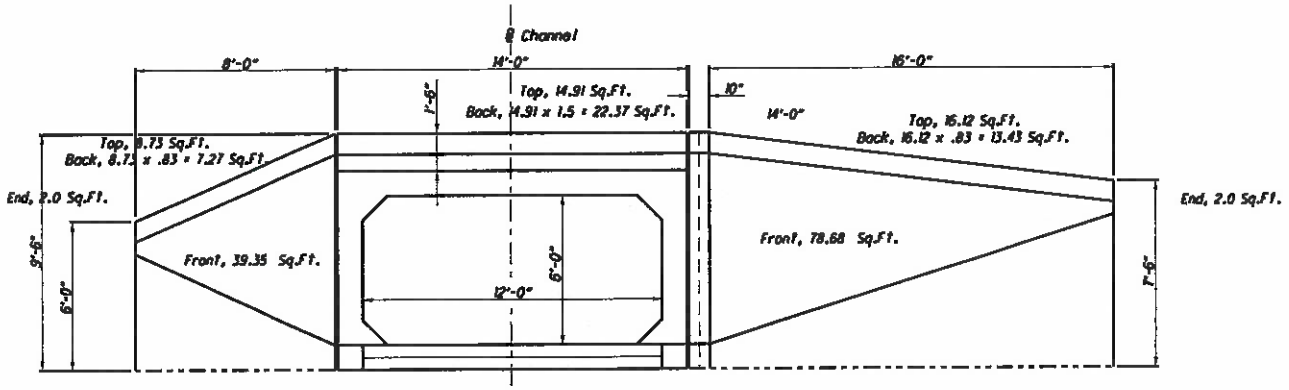


SECTION VIEW

Porous Backfill with Geotextile Fabric
1.) (3.5 x 1.5 x 8 / 27) x 2 = 3.11 Cu.Yd.
2.) (3.5 x 1.5 x 17.87 / 27) x 2 = 6.95 Cu.Yd.
Total = 10 Cu.Yd.



Front, 50.48 Sq.Ft.
Inlet, 33.66 x 2 = 67.32 Sq.Ft.
Extension, 12 x 2 = 24.0 Sq.Ft.

Total Area
2.0 + 39.35 + 7.27 + 8.73 + 14.91 + 22.37 + 16.12 + 13.43 + 2.0 + 78.68 + 50.48 + 67.32 + 24 = 347 Sq.Ft.
347 / 9 = 39 x 2 = 78 Sq.Yds.

WINGWALL ELEVATION

State Route 324
SLM 3.20