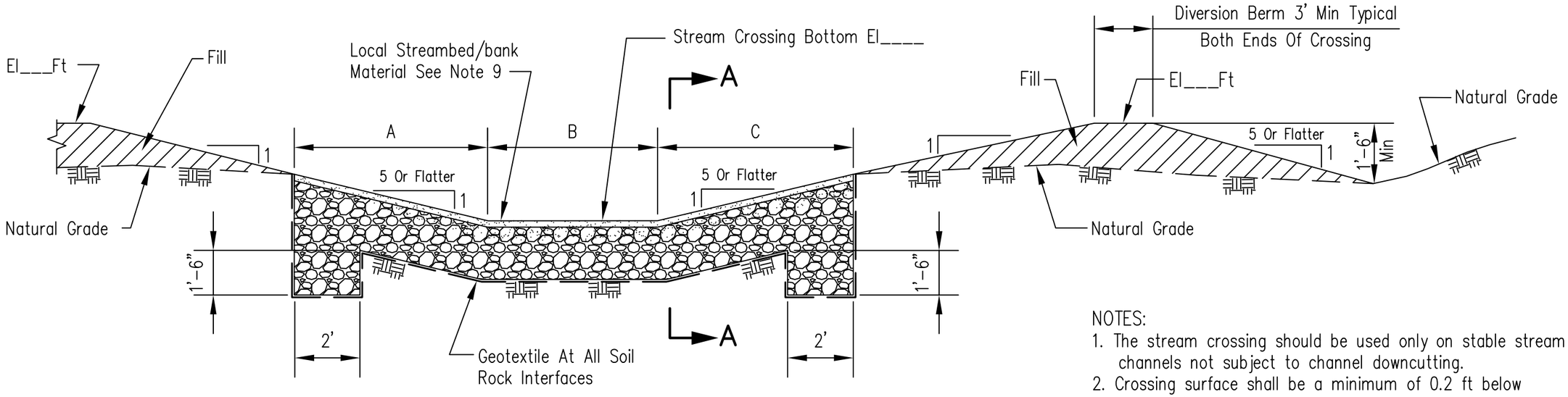
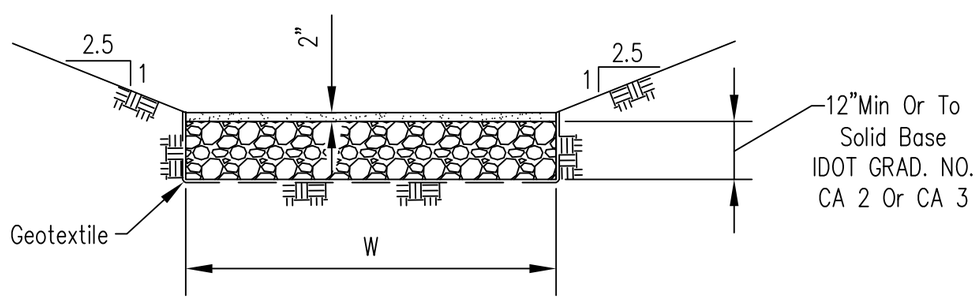


PROFILE ALONG CENTERLINE OF CROSSING



SECTION A–A

DIMENSIONS

A = _____(Ft)

B = _____(Ft)

C = _____(Ft)

W = _____(Ft)

Station_____

NOTES:

1. The stream crossing should be used only on stable stream channels not subject to channel downcutting.
2. Crossing surface shall be a minimum of 0.2 ft below channel invert.
3. Surfacing material shall be compacted so that the entire surface is traversed by not less than one tread track of the load hauling equipment.
4. Berms at each end of the crossing shall be constructed to direct surface flow away from excavated crossing, as directed by the engineer.
5. All disturbed areas not covered by gravel shall be seeded in accordance with Critical Area Planting Standard (Practice Code 342).
6. Excavated material shall be removed from site, used for diversion berms or placed at least 12 feet from top edge of back slope and spread so that the height does not exceed 1 foot. The spoil material shall drain freely.
7. Geotextile (non–woven, needle punched) Minimum criteria:
   Grab tensile strength (lb) ASTM D 4632_____202
   Elongation at failure (%) ASTM D 4632_____≥ 50
   Trapezoidal tear strength (lb) ASTM D 4533_____79
   Puncture strength (lb) ASTM D 6241_____433
   Ultraviolet light (% retained strength) ASTM D 4355____
   __min 50
   Apparent opening size (AOS) ASTM D 4751_____
   max 0.22 mm (US sieve size70)
   Permittivity sec^{-1} ASTM D 4491_____min 0.70
8. Any geotextile splices shall overlap a minimum of 18 inches, with upstream or upslope geotextile overlapping the abutting downslope geotextile.
9. Use spoil material from excavation to provide 2" cover over rock. Use stream bed material in the base flow area and stream bank material on the bank slopes.

ESTIMATED QUANTITIES	
Excavation	Cu.Yd.
Coarse Aggregate	Tons.
Geotextile	Sq.Yd.
Seeding	Acres

Landowner		Location	

Date

Designed_____

Drawn M. QUINONES 6/1/16

Checked_____

Approved_____

STREAM CROSSING FOR LIVESTOCK

USDA United States Department of Agriculture

Natural Resources Conservation Service

File No. IL–ENG–864

Drawing No.

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