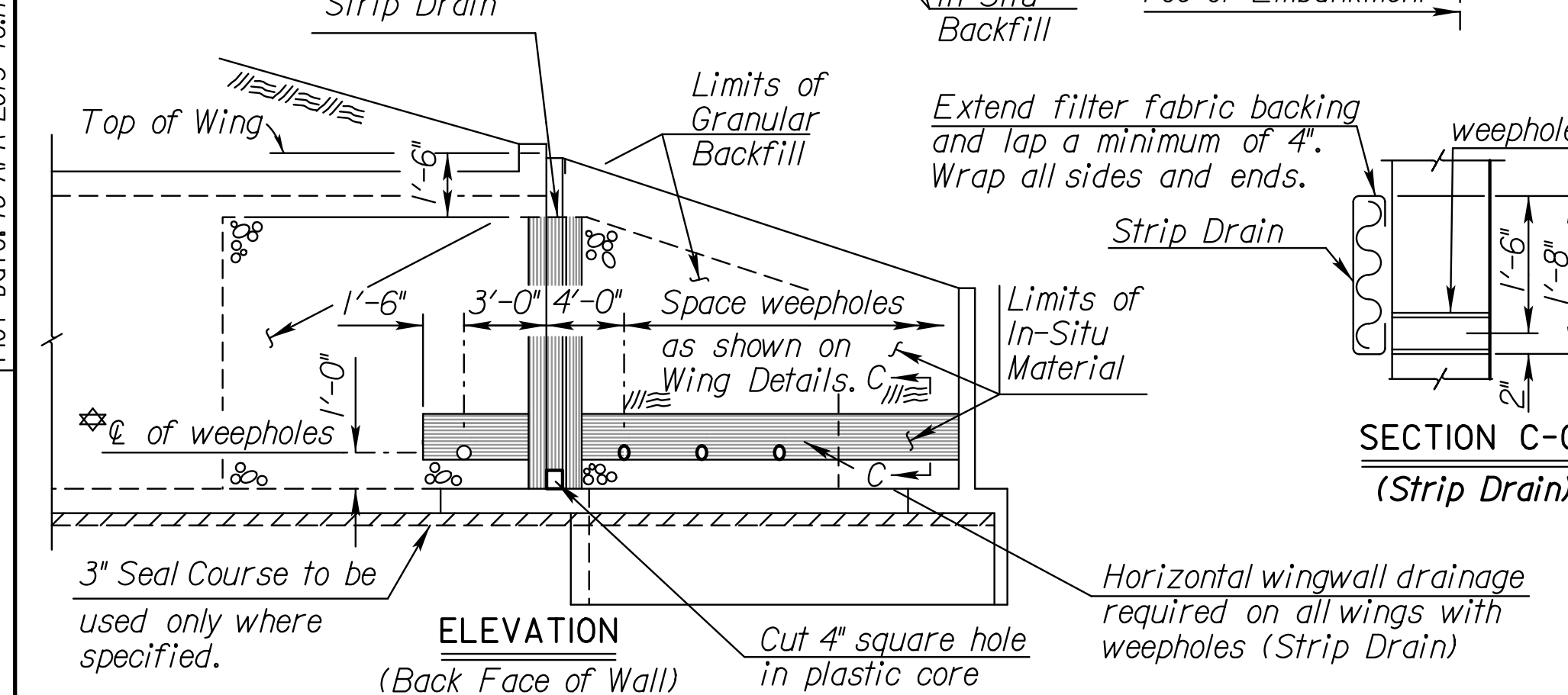
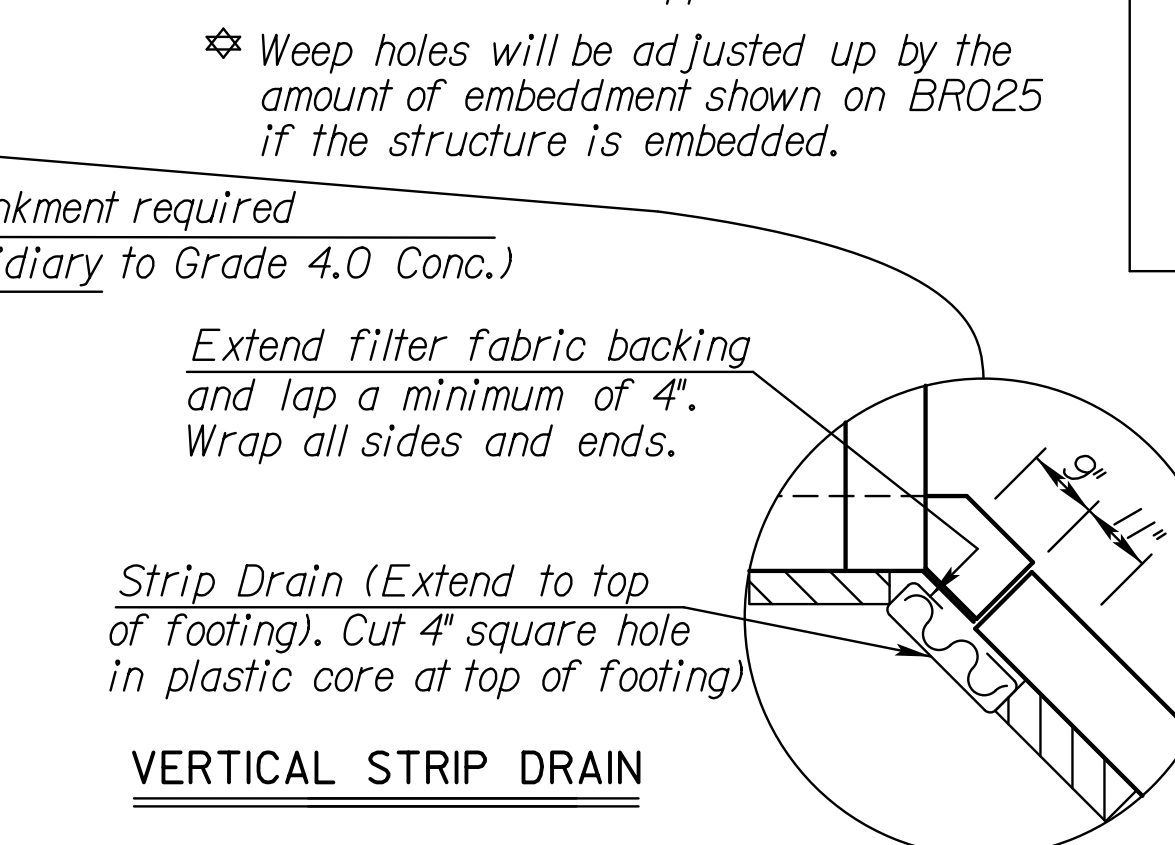
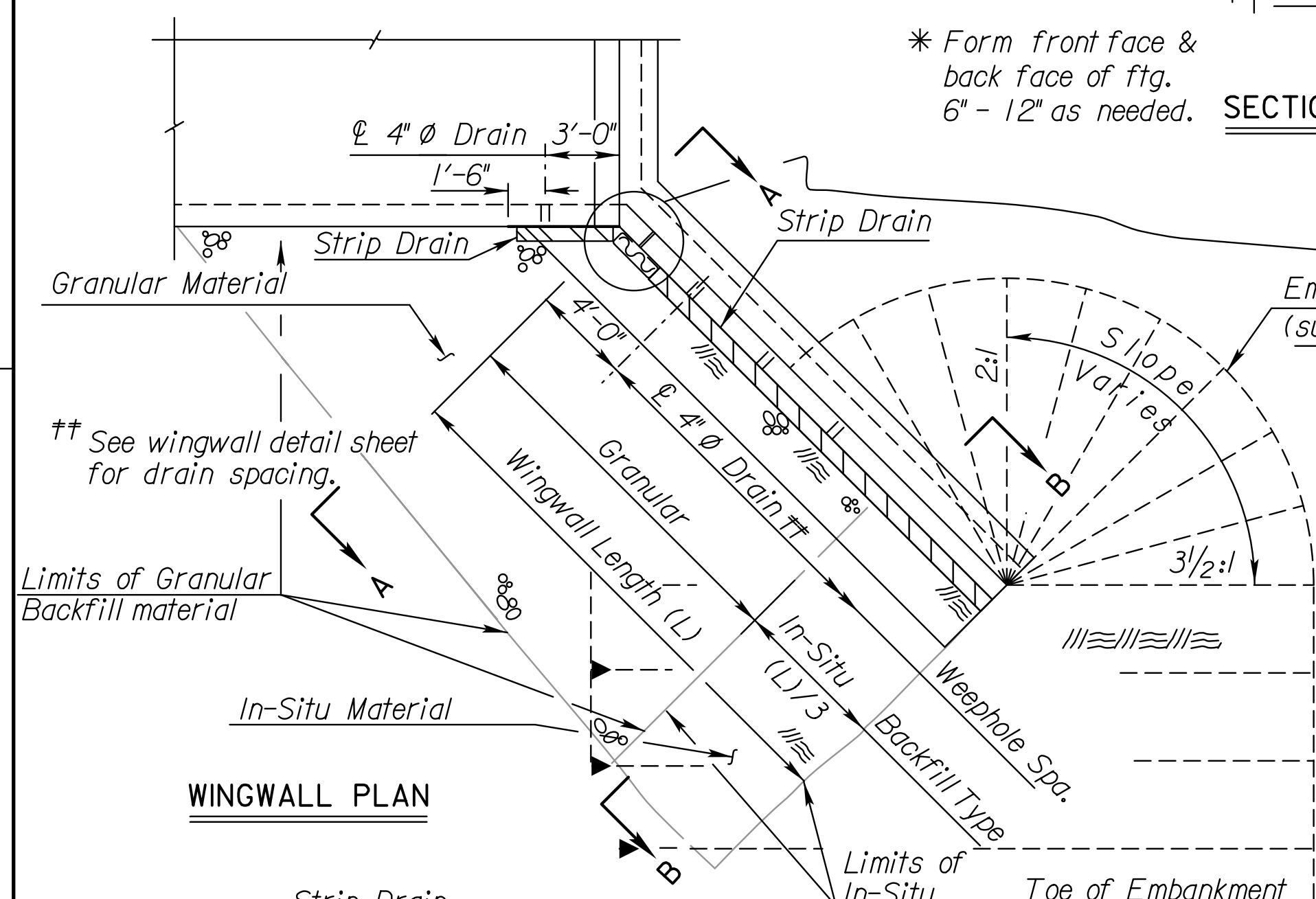
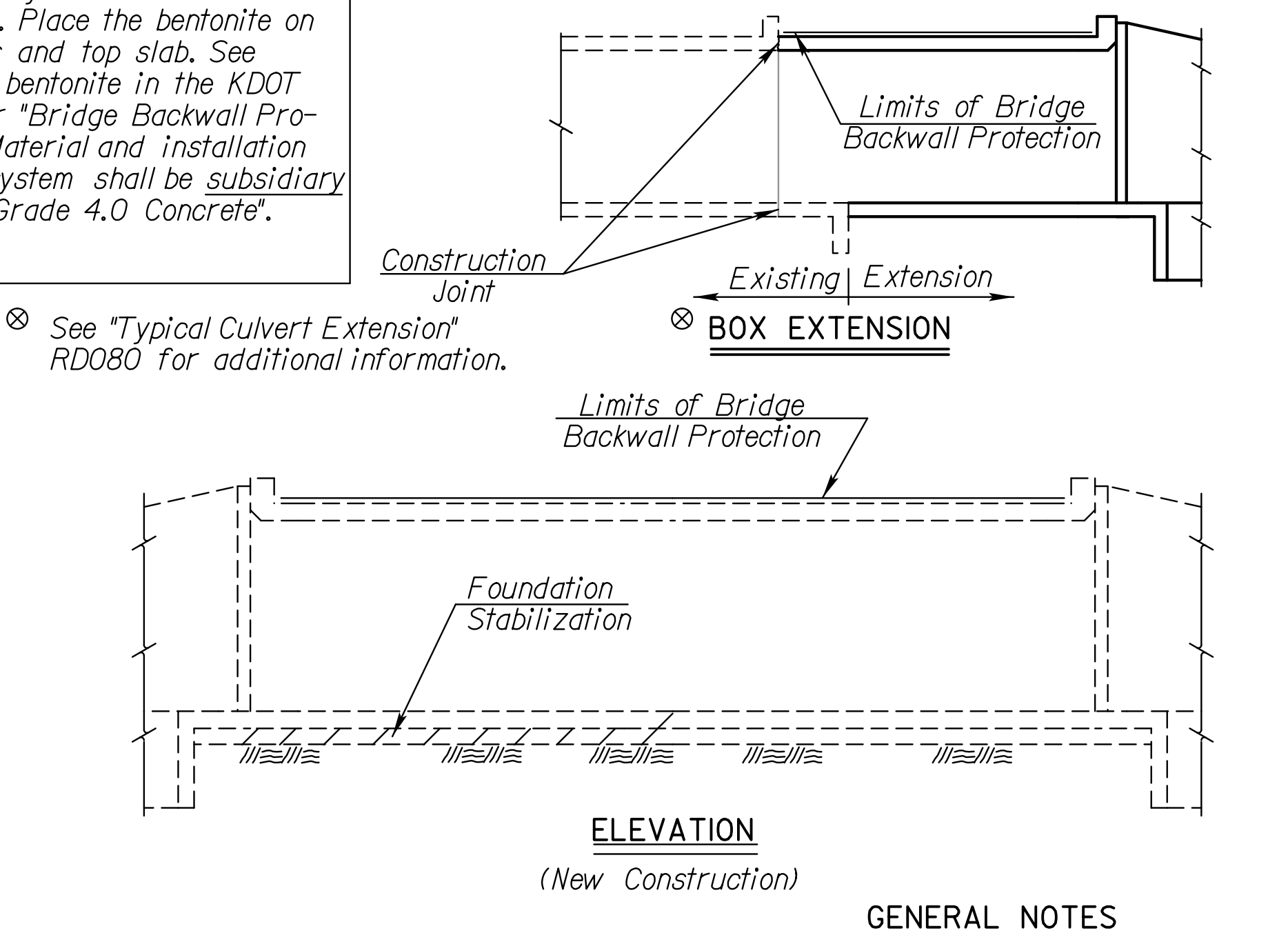
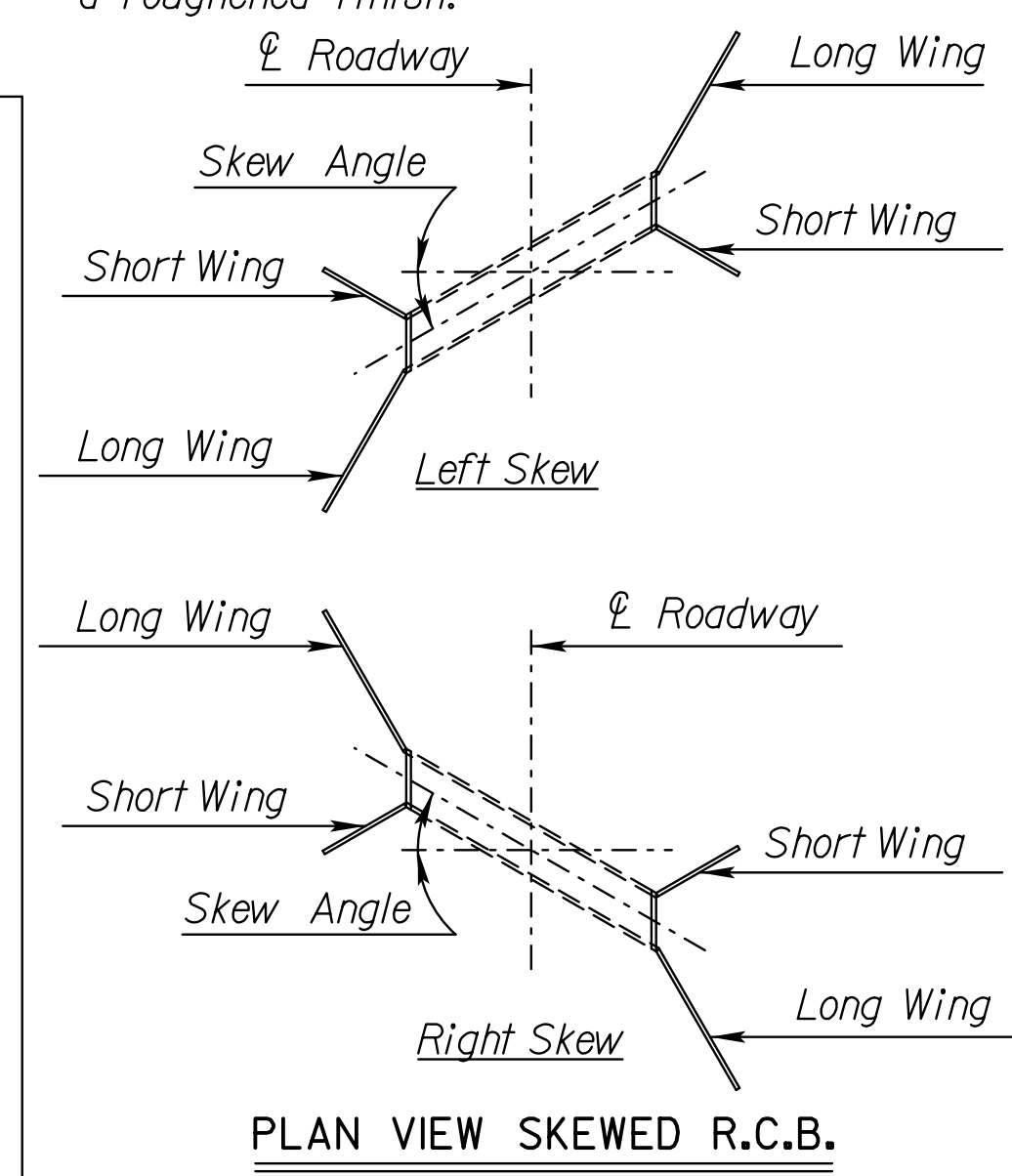
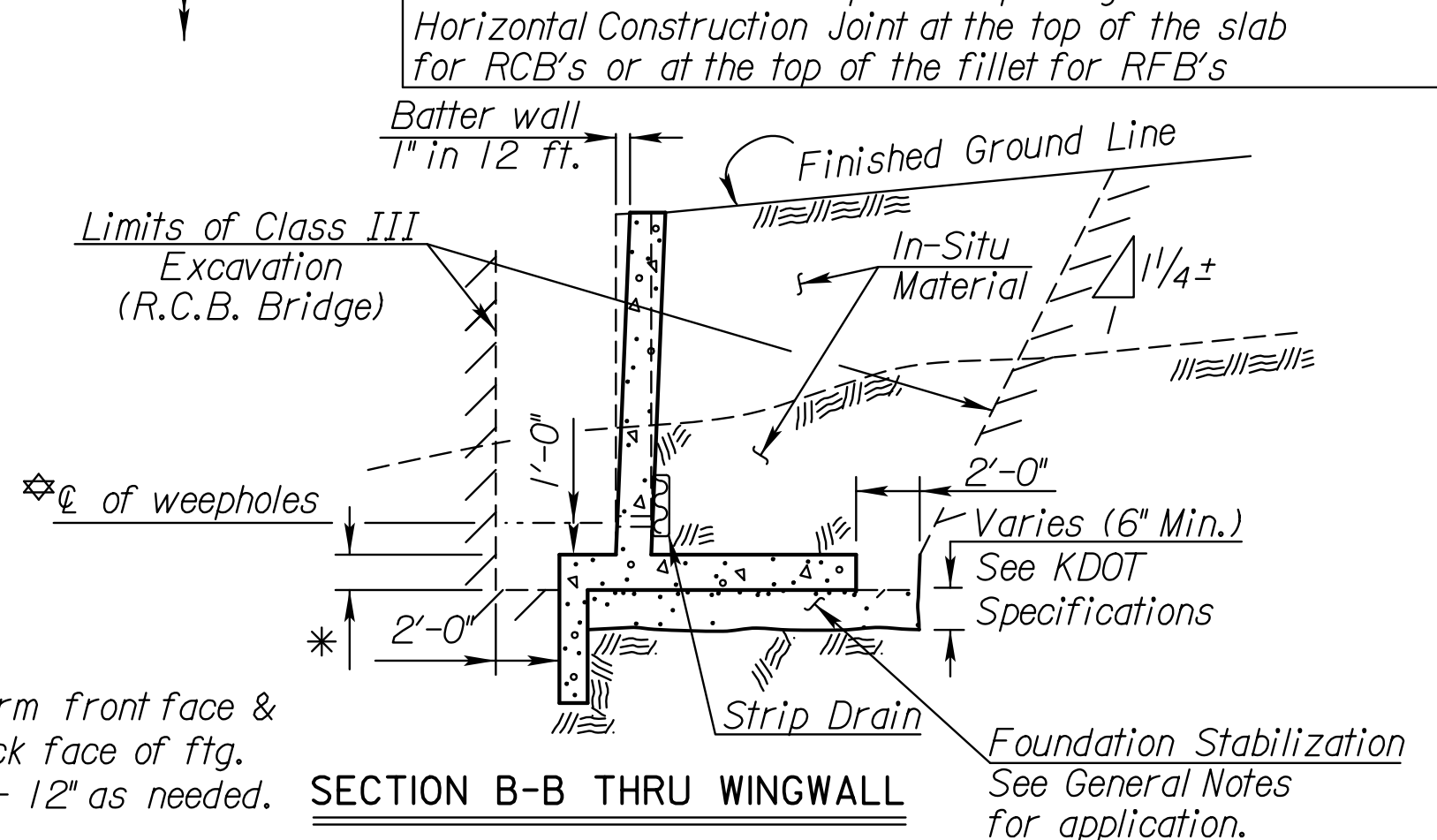
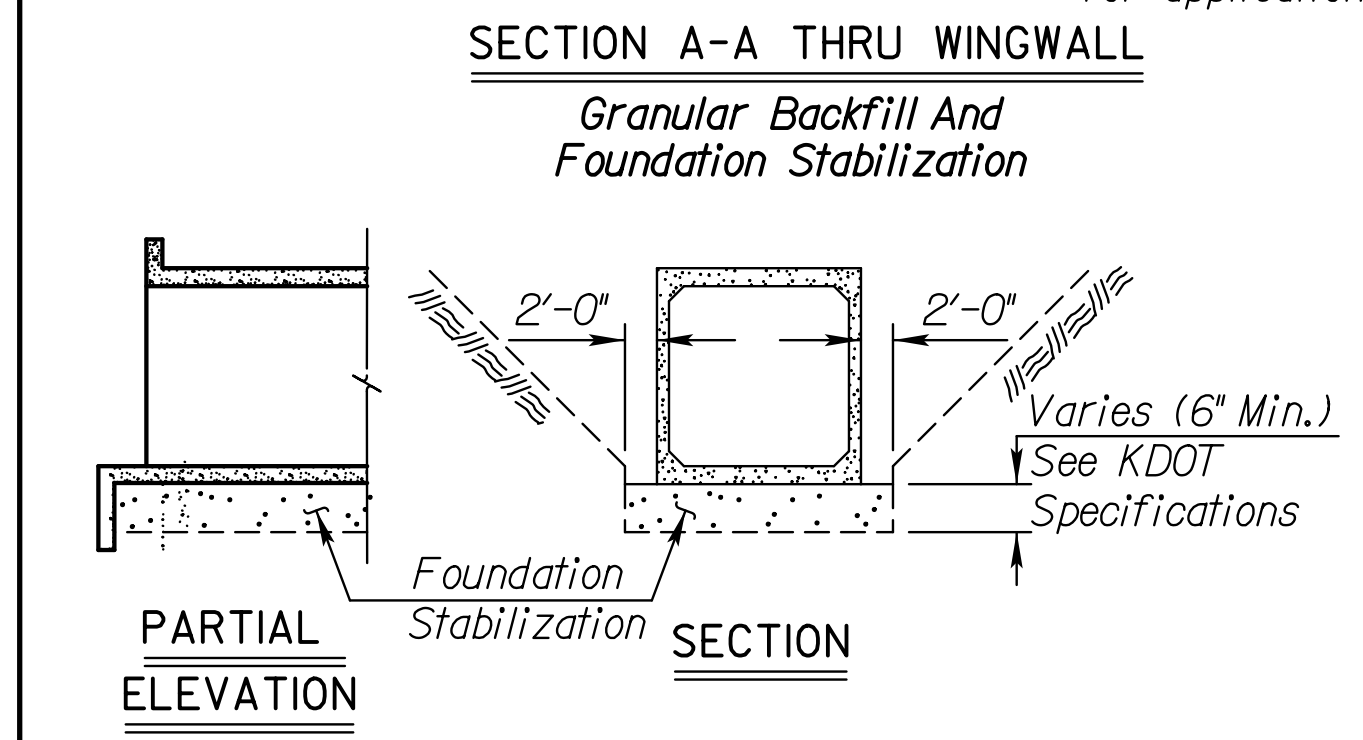
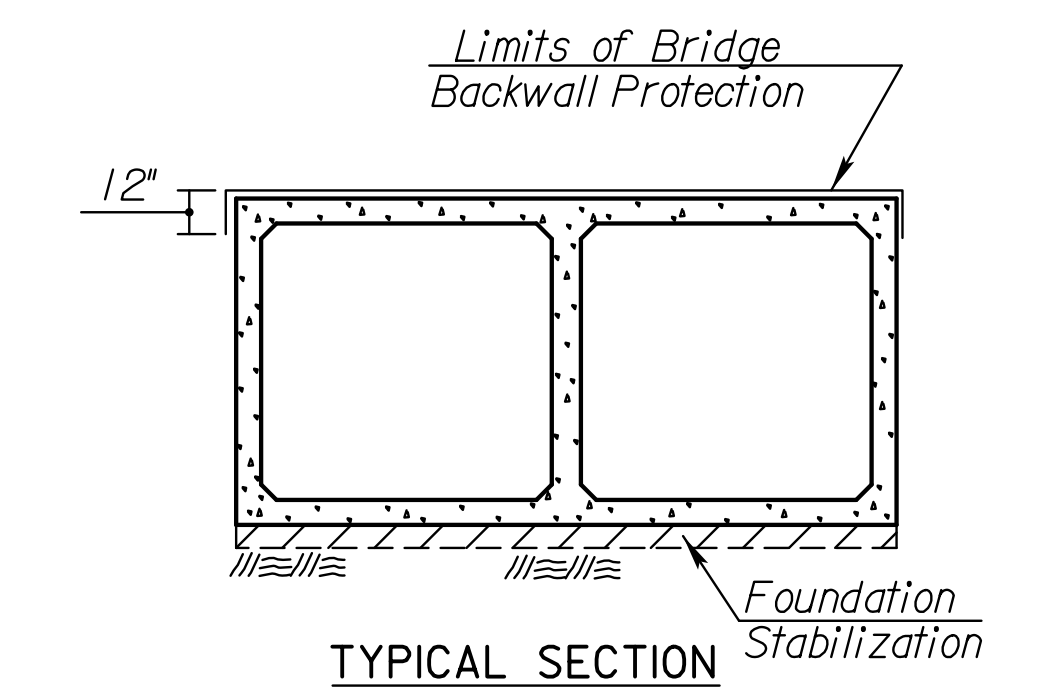
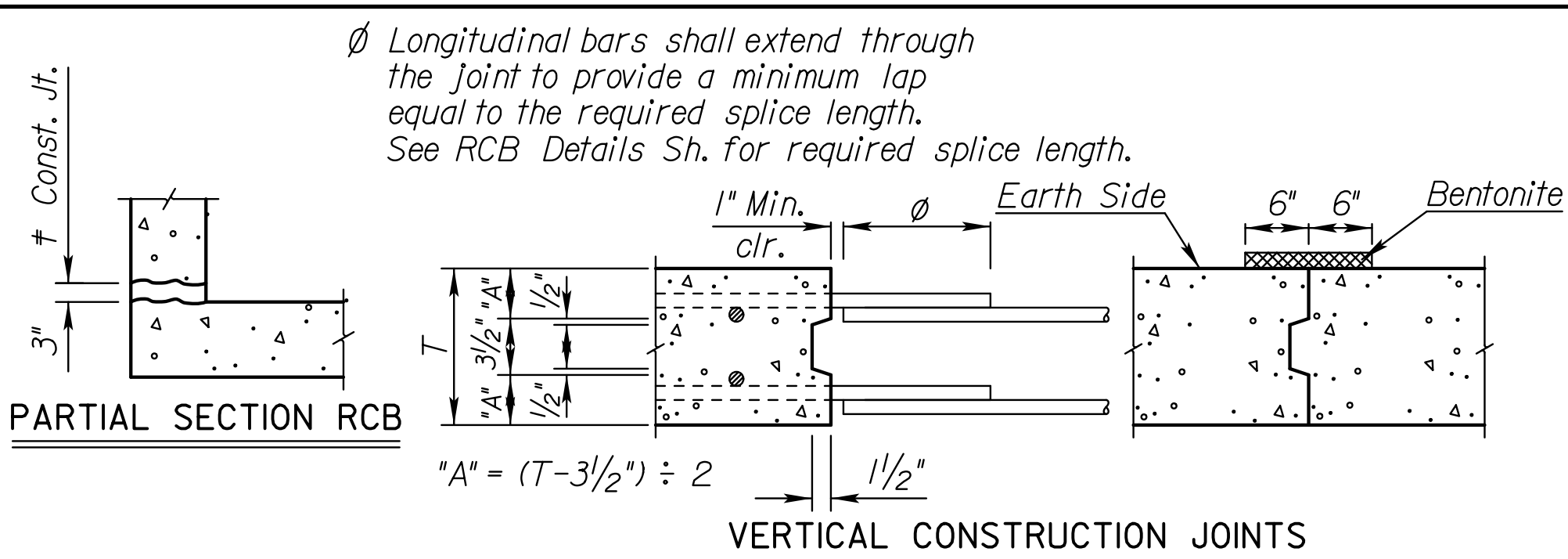
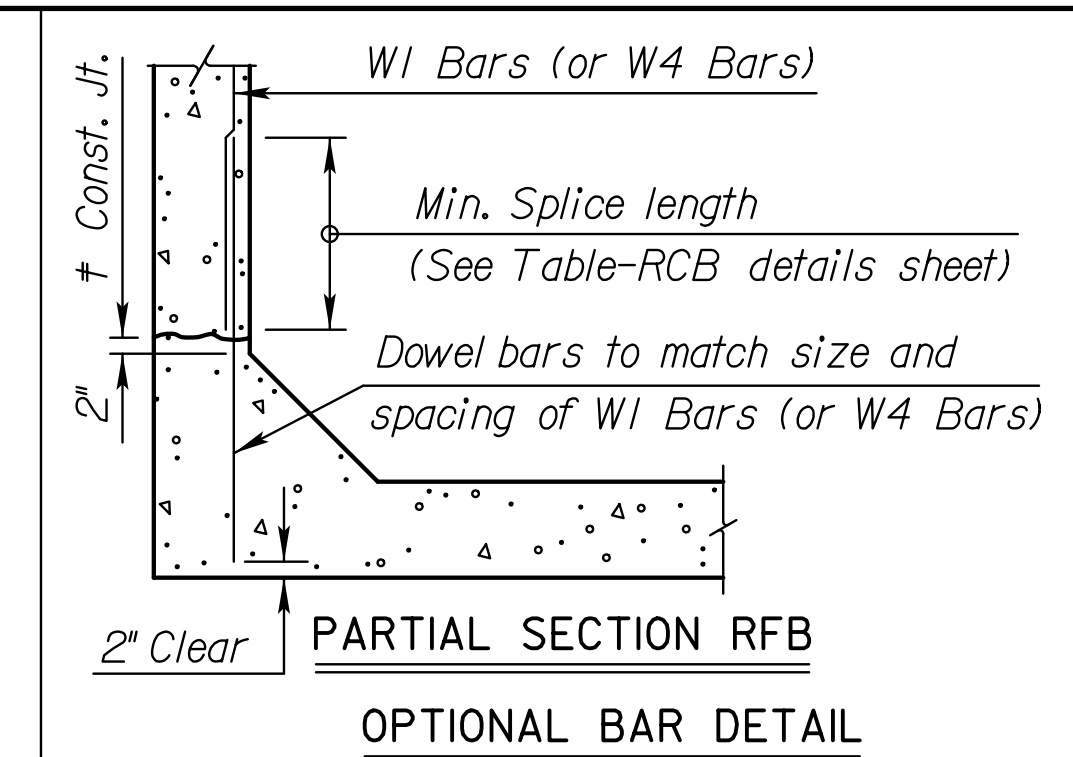
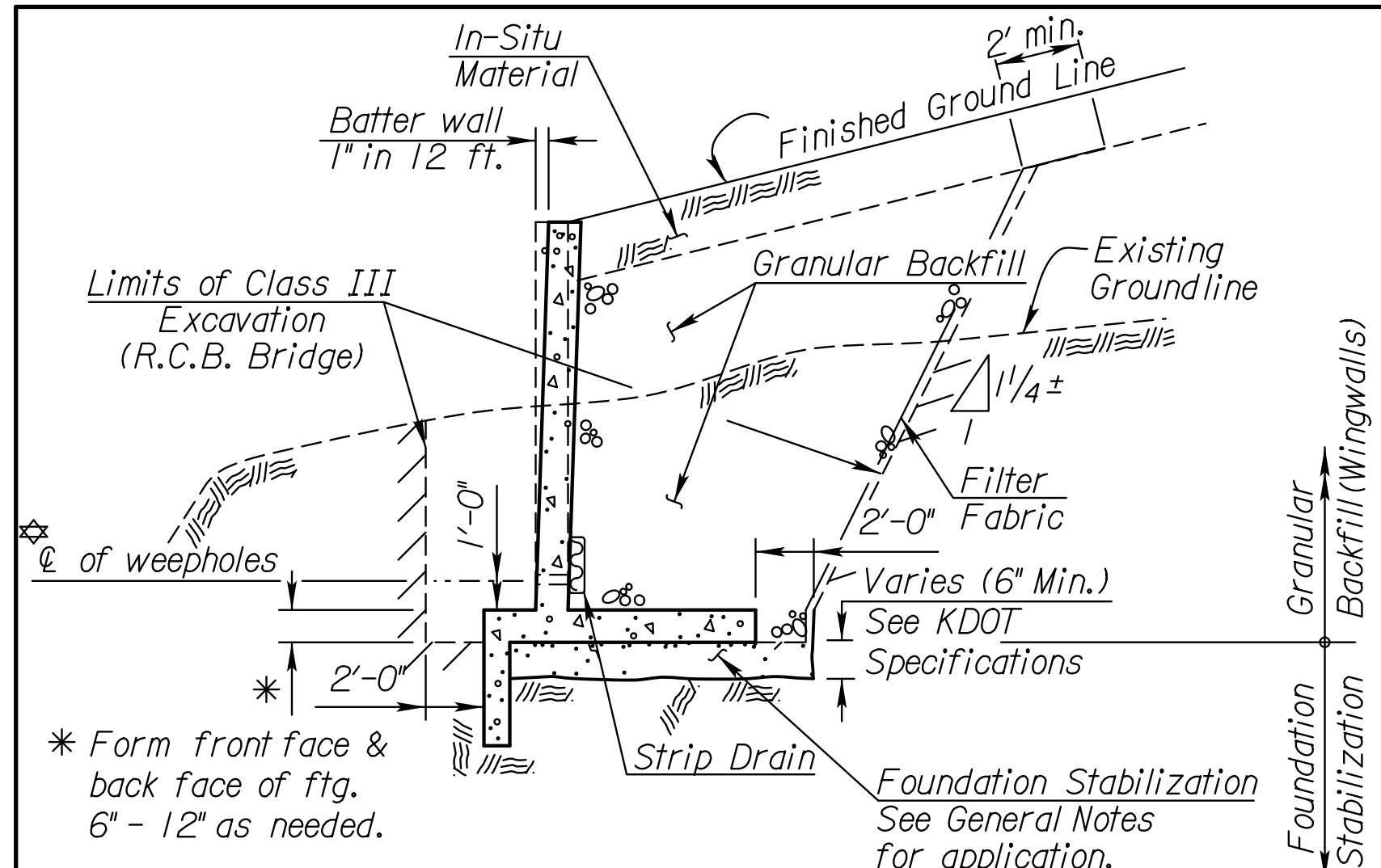


STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472-84915	2013	39	83



**GENERAL NOTES**

**Foundation Stabilization:**  
The depth of Foundation Stabilization may be increased by the Engineer. The Contractor may underrun Foundation Stabilization under the barrel if founded on firm material and with the Engineer's approval. Use Foundation Stabilization on all wingwalls unless founded on rock or granular material.

**Granular Backfill (Wingwalls):**

- Granular Backfill shall be used to backfill behind wingwalls to the limits shown in the WINGWALL PLAN detail. Granular Backfill construction may be used separately or combined with Foundation Stabilization as directed by the Engineer.
- Measurement for the bid item, "Granular Backfill (Wingwalls)", shall be measured in Cubic Yards to the theoretical limits as shown.
- Material for Granular Backfill (Wingwalls) shall conform to the requirements of SB-1, SB-2, SCA-2, SCA-3 or SCA-5.
- Consolidate Granular Backfill using hand equipment only. Avoid over consolidation.
- Use filter fabric complying with Section 1710. Filter Fabric is subsidiary to "Granular Backfill". Use only within the limits of Granular Backfill.

**In-Situ Backfill (Wingwalls):**

- Use any material found within the project limits except Highly Plastic Clay(s) or organic material. The material is subsidiary to "Granular Backfill".
- Use Type "B" Compaction.
- Use only hand or walk behind equipment for Compaction.

**Wingwall Drainage:**

- All wingwalls with weepholes shall have horizontal and vertical wingwall drainage as shown. Strip drains will be used. See KDOT Specifications for "Abutment Strip Drains" for strip drain requirements.
- Construction and materials for wingwall drainage, including weepholes, and strip drain shall be subsidiary to the bid item, "Grade 4.0 Concrete". Weepholes may be a formed opening or corrugated polyethylene tubing.

**Wingwall Foundation Stabilization:**  
The Foundation Stabilization quantity has been calculated to the limits shown in the Section Thru Wingwall. The depth may be increased by the Engineer. Use Foundation Stabilization on all wingwalls unless founded on rock or granular material.

**Seal Course:**

- Seal Course consisting of 3" min. of Commercial Grade Concrete shall be constructed to the limits directed by the Engineer. No reinforcing in the floor of the slab or wall footing shall be placed until the Seal Course has gained sufficient strength to permit working upon it without injury.

**Bridge Backwall Protection System:**

- For all structures with less than or equal to 2'-0" of fill, apply a "Bridge Backwall Protection System" from Section 1700 to the limits shown. Do not place hot mix asphalt directly on this material.
- Use a "non-coal tar" material from KDOT's approved list.
- Protect this material from damage during backfilling. Repair at no additional cost.
- When the Plans show hot mix asphalt placed directly on the slab, substitute "Pavement Water Proofing" material from Section 800, this material shall be subsidiary. Wait 28 days after top slab is completed before applying this material.
- Bridge Backwall Protection System is subsidiary to "Grade 4.0 Concrete".

NO.	DATE	REVISIONS	BY	APP'D
6	10/11/12	Added Weep Hole Note	JPJ	TLF
5	8/2/12	Modified Backwall Notes	JPJ	TLF
4	3/7/12	Added Filter Fabric to Detail	JPJ	TLF
3	12/15/11	Added Bridge Backwall Protection	JPJ	TLF
2	3/3/10	Modified Backfill Details	JPJ	TLF
1	7/14/08	Change Type 'C' Compaction to 'B'	JPJ	KFH

<b>KANSAS DEPARTMENT OF TRANSPORTATION</b>			
<b>RCB AUXILIARY DETAILS (LRFD)</b>			
<b>BR020B</b>			
DESIGNED	JPJ DETAILED	4/17/10	TERRY L. FLECK
DESIGN CK.	JSR DETAIL CK.	RAA QUANTITIES	CADD
		JPJ QUAN. CK.	CADD CK. JPJ

Std. Base File: br020.dgn  
 Plotted By: mb  
 File: I:\2010\0281\Bridges\LRFD\_Boxes\br020b.dgn  
 Plot Date: 18-APR-2013 16:17