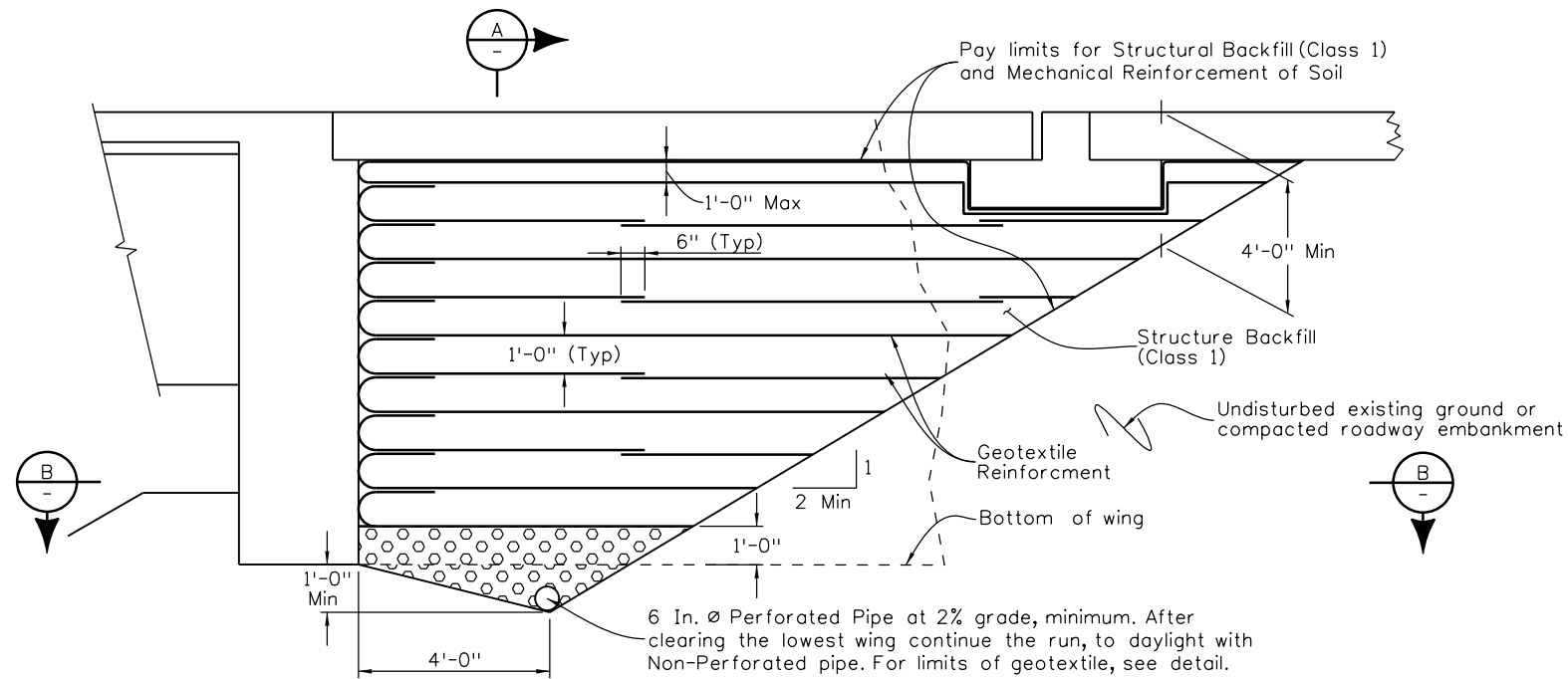


Bridge rails not shown.

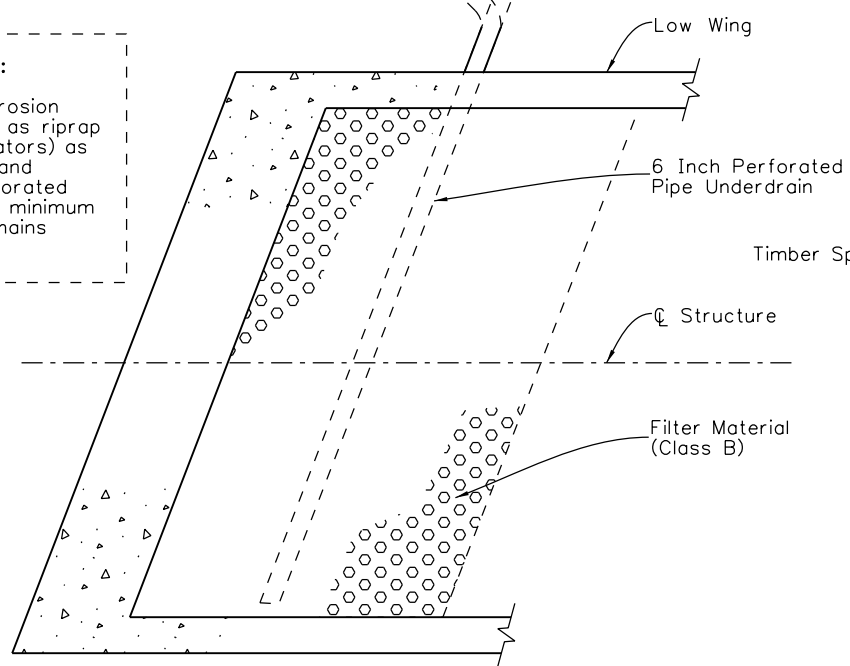


SECTION PERPENDICULAR TO ABUTMENT

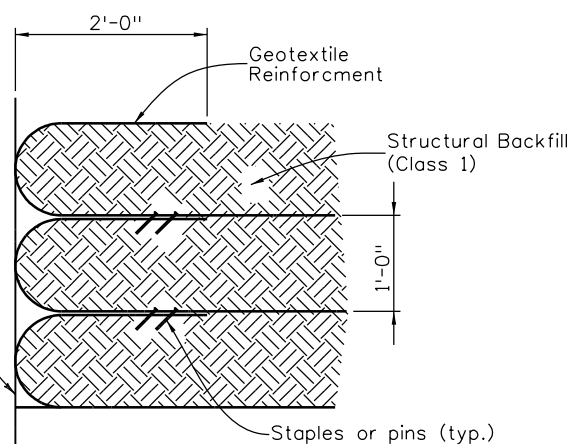
For steel structures longer than 300' without expansion devices between abutments and for abutments greater than 12' high, provide gap between the abutment and backfill. The gap width shall be at least 0.5% of the abutment height, 1" minimum. See Gap Detail 1 and 2. Do not provide this gap at bottom 2 nor the top 2 layers of Reinforced Soil.

6"Ø Non-perforated pipe (Subsurface drain outlet). Max. bend in pipe = 45°
See M-605-1 for end treatment details

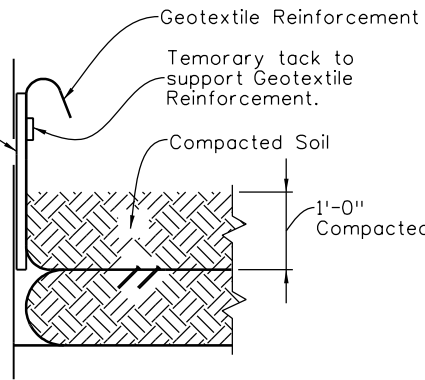
Designer/Detailer:
Discharge into erosion protection (such as riprap or energy dissipators) as needed. Extend and support non-perforated pipe such that a minimum 6" clearance remains below flowline.



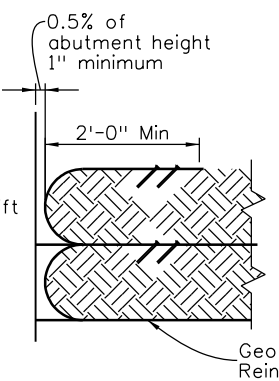
SECTION B



WRAP DETAIL

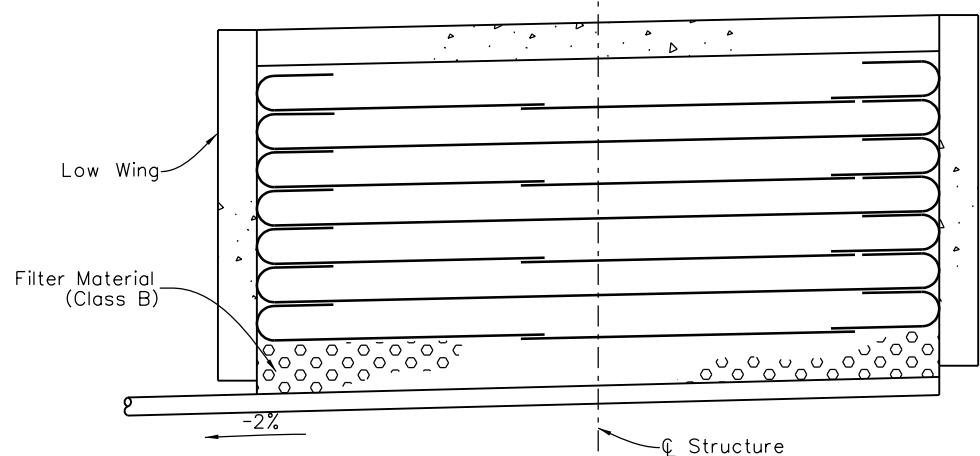


GAP DETAIL STEP 1

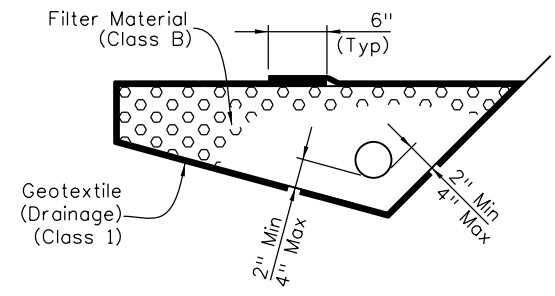


GAP DETAIL STEP 2

When required, the Geotextile Reinforcement wrap at Back Face of Abutment shall be temporarily hung with a spacer board and tack strip. After reaching a total of 1'-0" compacted lift, the tack strip shall be removed and textile Reinforcement shall be pulled back slack free with its end anchored to soil underneath with staple or pins before the spacer board is pulled. Any alternate method to maintain the minimum gap between abutment concrete and Reinforced Soil may be proposed to the Engineer for approval.



SECTION A



6 INCH PERFORATED PIPE UNDERDRAIN

6 Inch Perforated Pipe Underdrain includes all Filter Material (Class B) and Geotextile (Drainage) (Class 1) surrounding the filter Material (Class B).

NOTES:

- Geotextile reinforcement shall be woven fabric with a Minimum Average Roll Value of 4800 lb/ft for installations with a gap and 2400 lb/ft for installations without a gap based on ASTM D4595.
- Geotextile Reinforcement shall be placed by alternating Machine Direction (MD) with Cross Machine Direction (XD) from layer to layer.
- The Geotextile Reinforcement wrap at Back Face of Abutment shall be pulled back slack free with its end anchored to soil underneath with staples or pins.
- Minimum splice of all Geofabric shall consist of 6" of overlap.
- Payment for all work items shown will be made under Item 206 Mechanical Reinforcement of Soil (CY) and Item 206 Structure Backfill (Class 1) (CY) and Shall include the cost for 6 inch Ø Perforated Pipe underdrain and Subsurface Drain Outlet (6 inch Ø NonPerforated Pipe).
- Installation of Pipe Underdrain and Subsurface Drain Outlet will conform to the Construction requirements of section 605.03 and 605.06, respectively.

Revision Dates (Preliminary Stage Only)			
DATE	BY	REASON	DATE
5/00	XXX	5/01	10/13
4/02	XXX	3/07	7/10
9/02	XXX	9/02	3/07
5/01	XXX	4/02	7/10

Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
MM/YY	XXX	MM/YY	XXX	MM/YY	XXX
Checked By	Checked By	Checked By	Checked By	Checked By	Checked By

Print Date: \$DATE\$
File Name: Sheet_B-206-M1.dgn
Horiz. Scale: NTS Vert. Scale: As Noted
Staff Bridge Branch - Unit 022X Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
4201 East Arkansas Avenue
Room 107
Denver, CO 80222
Phone: 303-757-9309 FAX: 303-757-9197

Staff Bridge Branch **Initials**

As Constructed
No Revisions:
Revised:
Void:

MECHANICALLY STABILIZED BACKFILL			
Designer: XXXXXXXX	Structure Numbers	X-XX-XX	X-XX-XX
Detailer: XXXXXXXX	Subset Sheets: BXX of XXX		

Project No./Code
Project Number
Code
Sheet Number