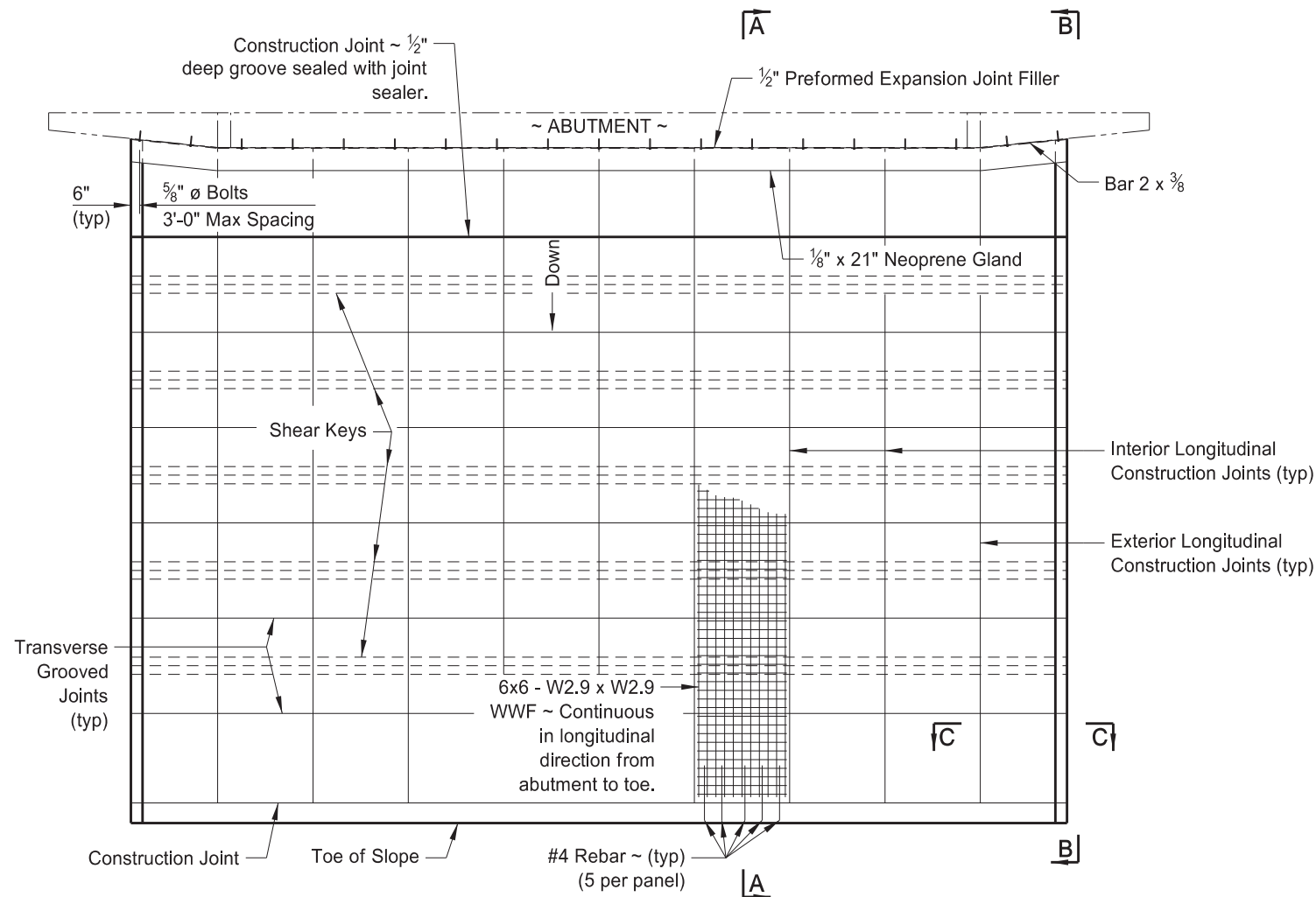
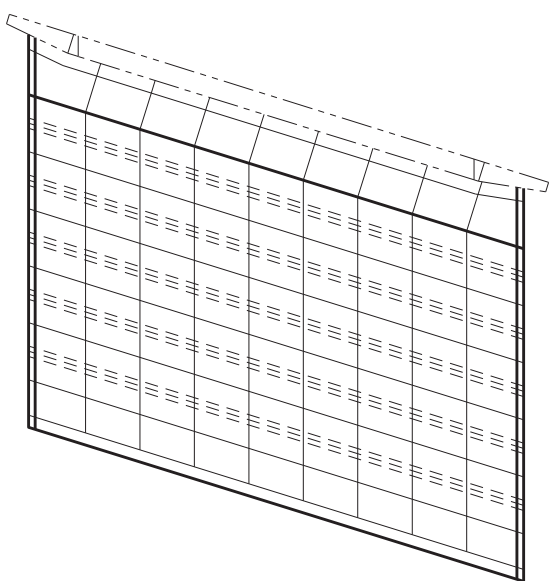


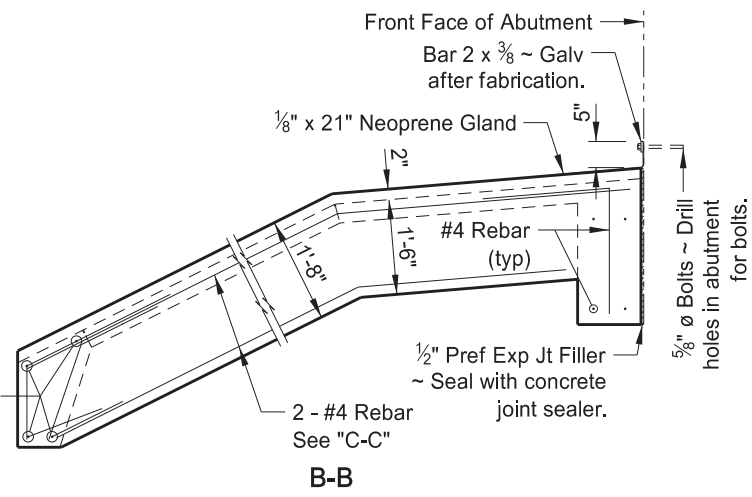
STANDARD SLOPE PROTECTION UNDER BRIDGES



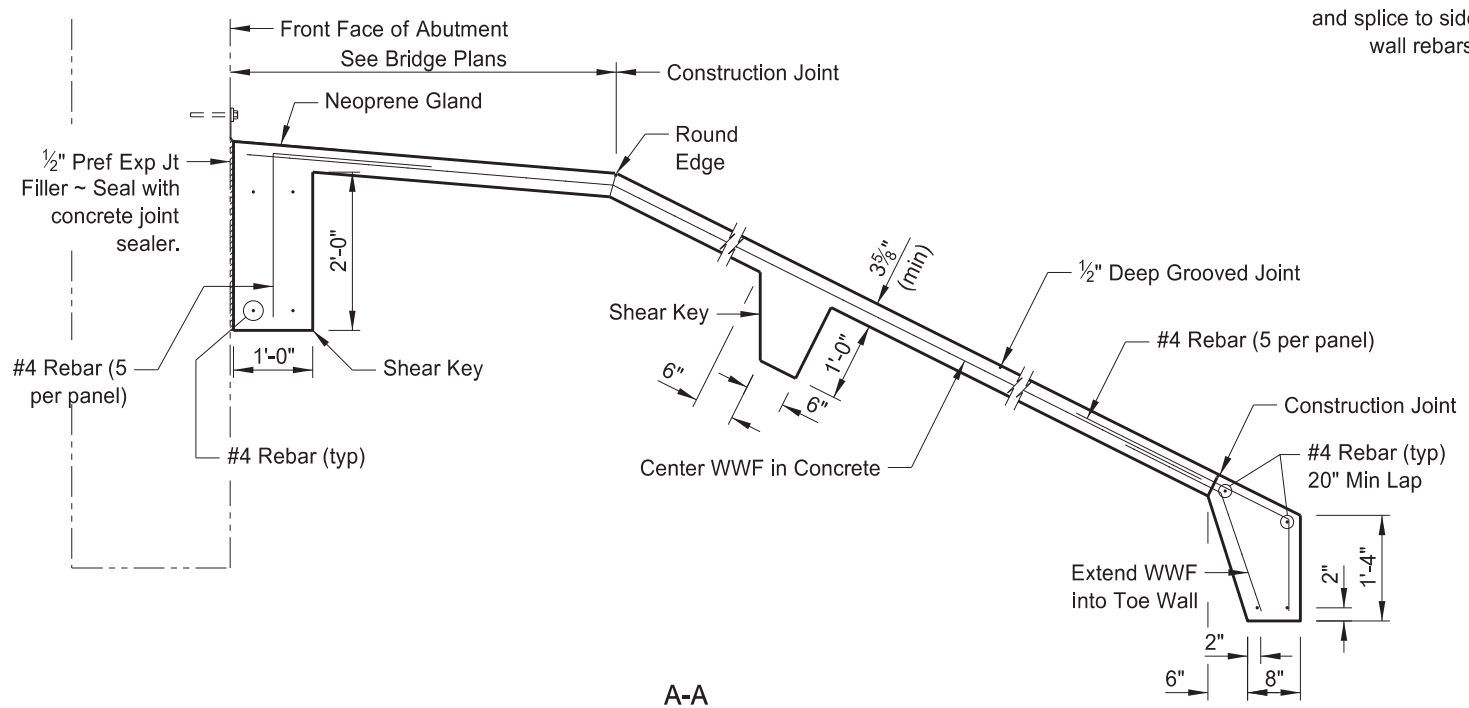
SLOPE PROTECTION LAYOUT



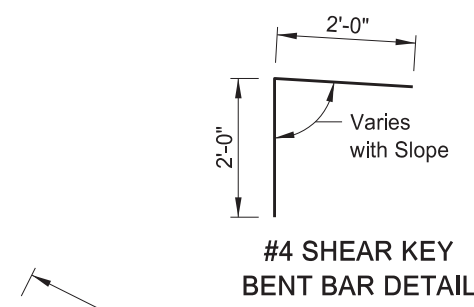
SKEWED SLOPE PROTECTION LAYOUT



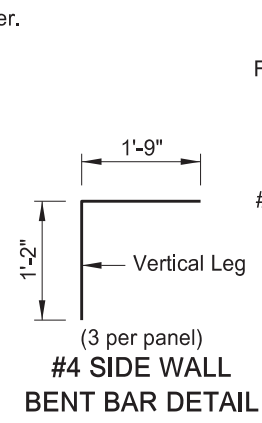
B-B



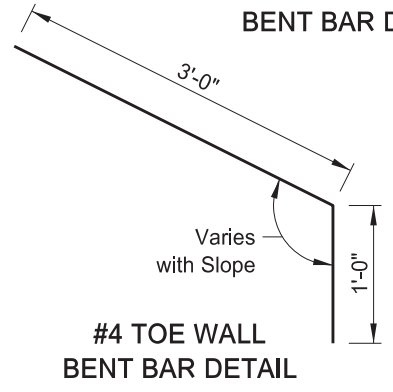
A-A



#4 SHEAR KEY BENT BAR DETAIL



#4 SIDE WALL BENT BAR DETAIL



#4 TOE WALL BENT BAR DETAIL

NOTES:

Construct the toe wall before concrete is placed on the slope.

Construct 5'-6" square interior panels. Vary the width of the outside panels from 5'-0" min to 8'-0" max to achieve the width shown in the plans. Vary the length of the bottom panel from 3'-0" min to 8'-0" max to achieve the length shown in the plans.

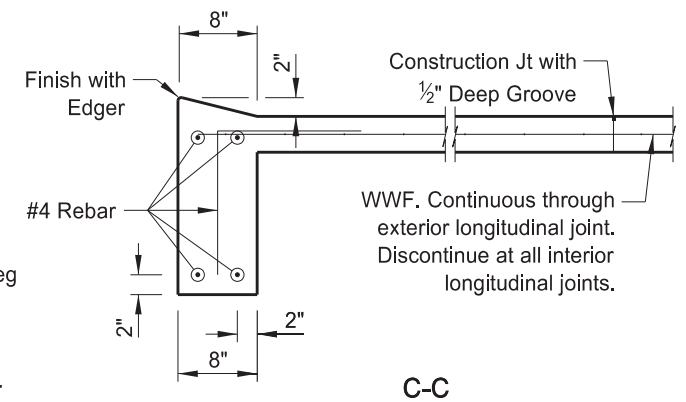
Construct 1/2" deep grooves in transverse and longitudinal joints. Seal the joints with a concrete joint sealant meeting 826.02 or ASTM C-920, Class 25.

Install 1/2" thick preformed expansion joint filler around pier columns or other obstructions projecting through the concrete slope protection.

Place shear keys in every panel on the slope, as shown.

Supply the welded wire fabric (WWF) in sheets. Use a lap splice at least 8" long when it is necessary to make the WWF continuous.

Fasten the neoprene gland to the front face of abutment using 5/8" diameter bolts passing through a 2" wide x 3/8" thick steel bar. Provide a continuous steel bar, or a series of shorter bars, each with a length sufficient to hold a minimum of 3 bolts and extend a minimum distance of 6" past the centerline of outer bolts. Install the bolts into the front face of abutment using chemical or mechanical anchors. Galvanize the bolts and steel bars per Section 854.



C-C

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
07/10/14	
REVISIONS	
DATE	CHANGE
07/10/14	CHANGED FROM D-708-1
09/03/19	UPDATED SIGNATURE
02/23/24	Updated Signature Revised notes & updated to active voice

