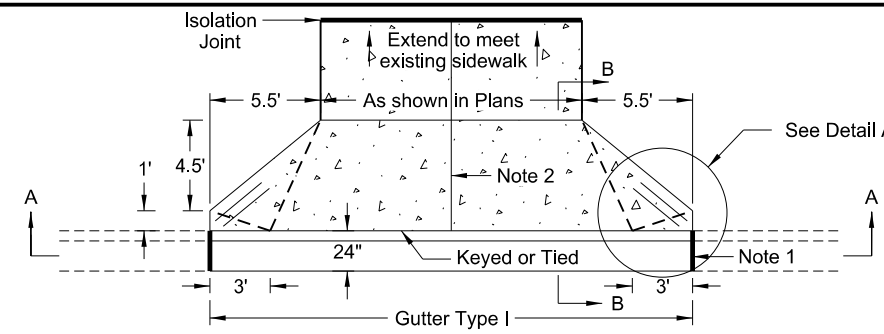
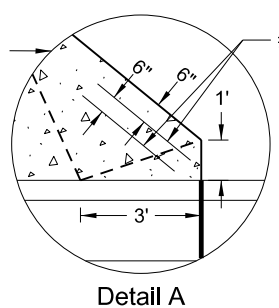


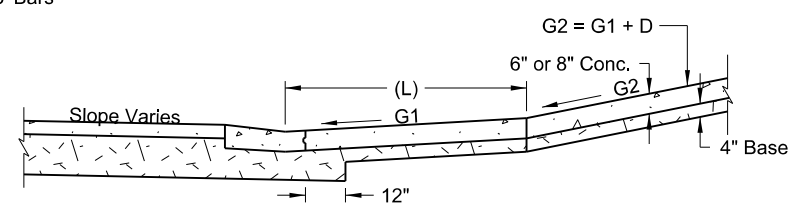
CONCRETE DRIVEWAY - URBAN



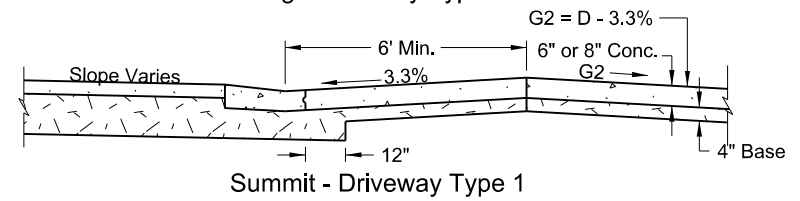
Driveway Type 1



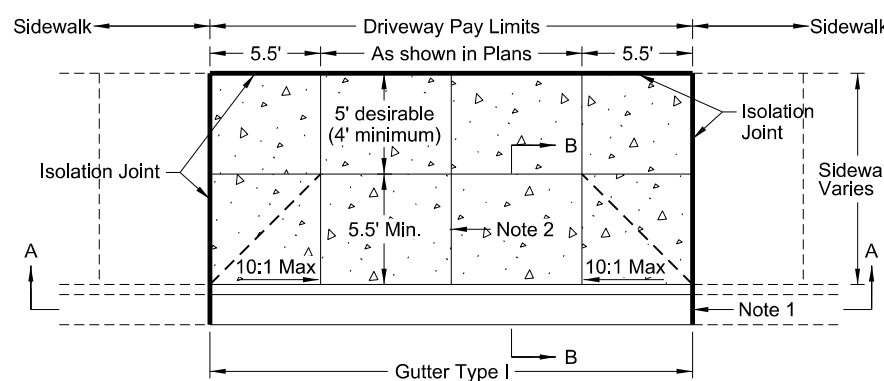
Detail A



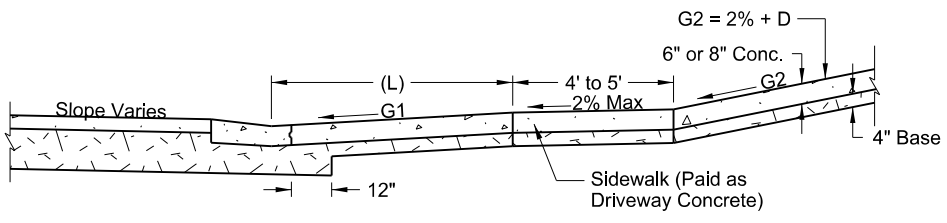
Sag - Driveway Type 1



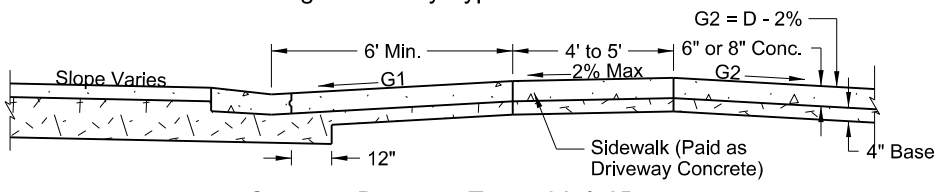
Summit - Driveway Type 1



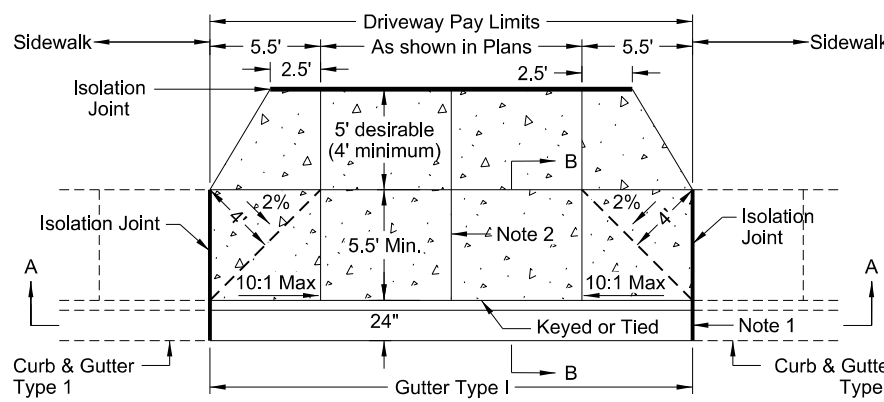
Driveway Type 2A



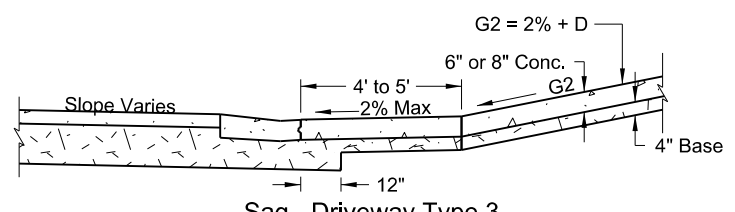
Sag - Driveway Types 2A & 2B



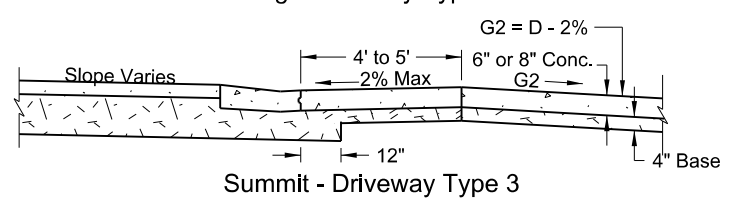
Summit - Driveway Types 2A & 2B



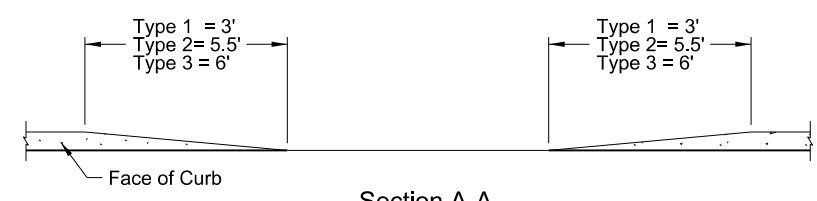
Driveway Type 2B



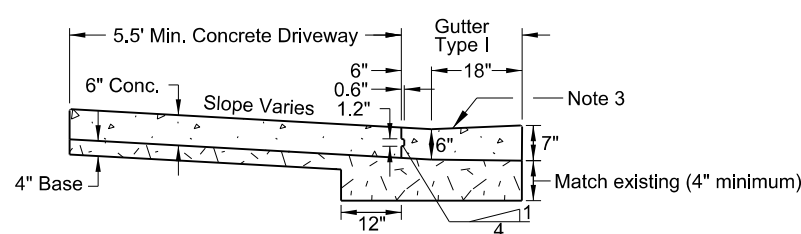
Sag - Driveway Type 3



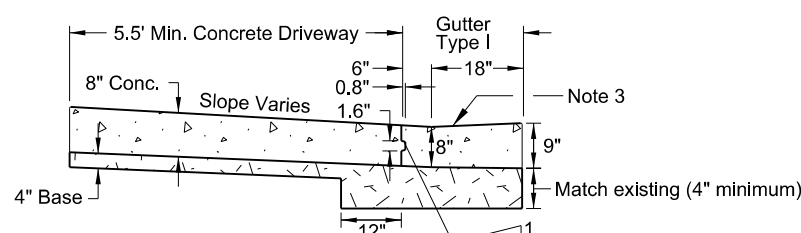
Summit - Driveway Type 3



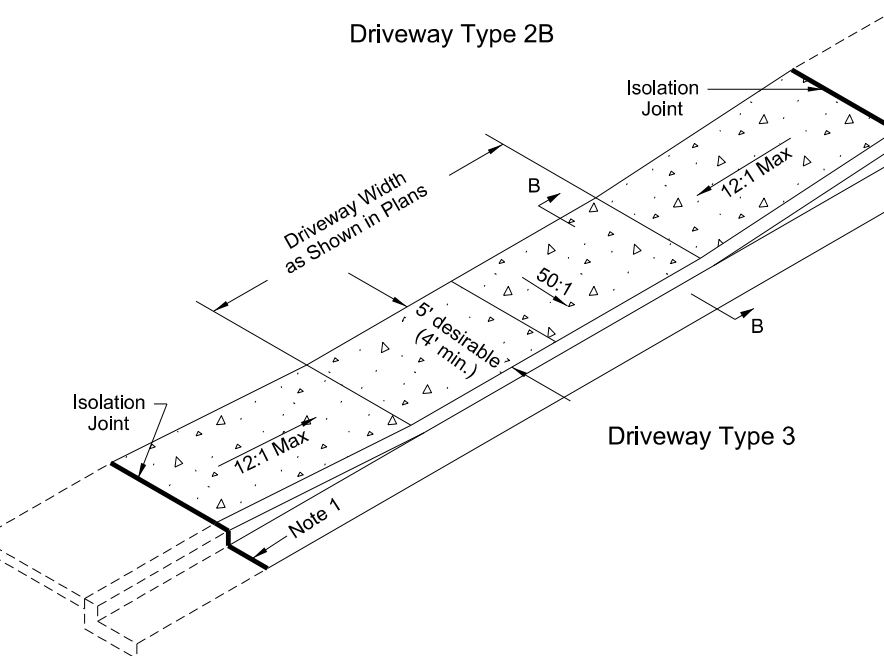
Section A-A



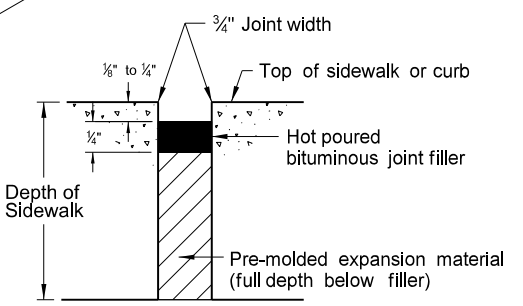
6" Section B-B



8" Section B-B



Driveway Type 3



Typical Isolation Joint Seal (longitudinal and transverse)

NOTES:

- See Standard D-748-1 for curb and gutter isolation joint detail. On PCC roadways, match curb and gutter joints with pavement joints, as much as practical.
- Joint Spacing: Use 1 center contraction joint on driveways 20' width or less, 2 center contraction joints for driveways 20' to 30' width, and 3 center contraction joints for driveways greater than 30' width. Saw or groove contraction joints a minimum depth of 1/3 the depth of the concrete. Use isolation joints between separately poured concretes, or between old and new concrete. Seal joints with hot pour bituminous filler or low modulus silicone. Install and tool sealant according to manufacturer's recommendations. Include all costs for labor, equipment, and material to construct and seal joints in the price bid for the driveway.
- Include all costs for gutter-Type 1 in the unit price bid for "Curb and Gutter-Type 1".
- Use 6" driveway unless otherwise specified.
- Place 4" base material under concrete driveway. Include all costs for labor and materials necessary to place the base material in the price bid for Salvage Base Course or Aggregate Base Course CL 5.
- Construct sidewalk behind a driveway to the same thickness as the driveway. The Engineer will measure it as driveway concrete.

Driveway ADT	Grade G1		Dimension (L) ft.		Grade Changes (D)	
	Desirable	Maximum	Desirable	Maximum	Desirable	Maximum
(0-500)	5%	12% or controlled by vehicle clearance	12	6	6%	15% or controlled by vehicle clearance
(500-1500)	3%	8%	20	20	3%	6%
(> 1500)	2%	5%	40	40	0%	3%

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
2-13-2014	
REVISIONS	
DATE	CHANGE
10-17-17 08-27-19	Updated to active voice. New Design Engineer PE Stamp.

This document was originally issued and sealed by Kirk J Hoff, Registration Number PE-4683, on 08/27/19 and the original document is stored at the North Dakota Department of Transportation