

**STRUCTURAL DRAWINGS AND DETAILS**  
**Instructional Memorandum 700-SPP**  
**Structure Plan and Profile**

June 26, 2024

**General**

Bridge plan and profile sheets are available for 1"=10', 1"=15', 1"=20', 1"=25', and 1"=30' scales. A roadway structure plan and profile sheet is available at 1"=10' scale.

**Instructions to Designer**

The Engineer must determine which scale is appropriate for the size of structure. In general, the chosen scale should be the smallest scale that adequately shows the limits of the structure. For longer structures, it may be appropriate to use multiple sheets. Most structures should be drawn at a 1H:1V ratio, but some roadway structures, such as retaining walls, may use an exaggerated vertical scale.

Drawing model spaces for plan views and profile views are available at each scale. Drawing models are then added as references in a sheet model.

Grid line levels are locked by default to prevent accidental movement.

The SCDOT OpenBridge workspace includes an automated plan and profile sheet creation tool that may be used to create a sheet.

**Applicable Drawings**

DGN File Name	Drawing Number	Sheet Title
700-SPP	700-SPP.BPP.SC10	BRIDGE PLAN AND PROFILE [10 SCALE]
	700-SPP.BPP.SC15	BRIDGE PLAN AND PROFILE [15 SCALE]
	700-SPP.BPP.SC20	BRIDGE PLAN AND PROFILE [20 SCALE]
	700-SPP.BPP.SC25	BRIDGE PLAN AND PROFILE [25 SCALE]
	700-SPP.BPP.SC30	BRIDGE PLAN AND PROFILE [30 SCALE]
	700-SPP.RSPP.SC10	ROADWAY STRUCTURE PLAN AND PROFILE [10 SCALE]

