



Bridge Design Details 3.4 August 2019

Structure Plans

Do NOT use more than one GENERAL PLAN.

Large structures, viaducts, retaining walls, and interchanges too long to fit on a single GENERAL PLAN, shall be drawn using STRUCTURE PLAN sheet(s). In this case, the entire structure, bridge, or retaining wall should be shown on one GENERAL PLAN using a small scale (e.g., 1" = 200'). The alignment and other details that are typically shown on the GENERAL PLAN will instead be provided on STRUCTURE PLAN sheet(s) using a 1" = 20' scale. Use as many STRUCTURE PLAN sheet(s) as necessary at this scale.

STRUCTURE PLAN sheet(s) should use a structure detailing border and immediately follow the GENERAL PLAN or INDEX TO PLANS sheet. Refer to *Bridge Design Details*: 3.4 Structure Plan Detailing Examples, Attachment 3A.C.1 and Attachment 3A.C.2.

Retaining Walls

STRUCTURE PLAN sheet(s) are typically included in retaining wall plans to show additional information, such as footing layouts, design heights, and other details not shown on the GENERAL PLAN. PLAN views for Soldier Pile Walls and standard retaining walls on spread footings are not required. On STRUCTURE PLAN sheet(s), both the ELEVATION and PLAN views should be included at equal scales; the preferred scale for both is 1" = 10'.

Refer to *Bridge Design Details*: 3.4 Structure Plan Detailing Examples, Attachments 3A.C.3 through Attachment 3A.C.7 for examples of typical retaining wall STRUCTURE PLAN sheet(s):

- Attachment 3A.C.3 - Modified Standard Retaining Walls (Types 1, 5, 6 or 7)
- Attachment 3A.C.4 - Modified Standard Retaining Walls (Types 1SW, 5SW or 7SW)
- Attachment 3A.C.5 - Soldier Pile, Tangent or Secant Pile Walls
- Attachment 3A.C.6 - Soil Nail Walls
- Attachment 3A.C.7 - Ground Anchor Walls