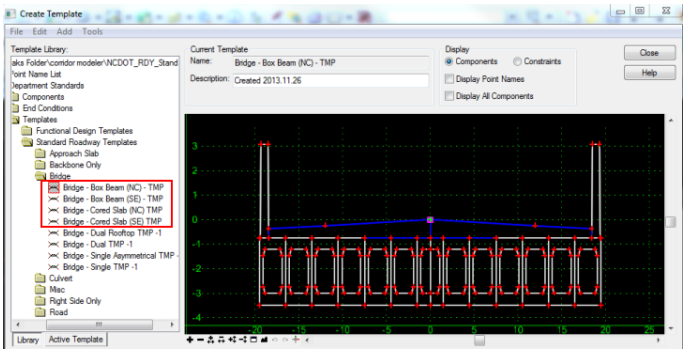
## 2_44 NEW BOX BEAM AND CORED SLAB TEMPLATES

**Question:**

I would like to model a Box Beam structure.

**Answer:**

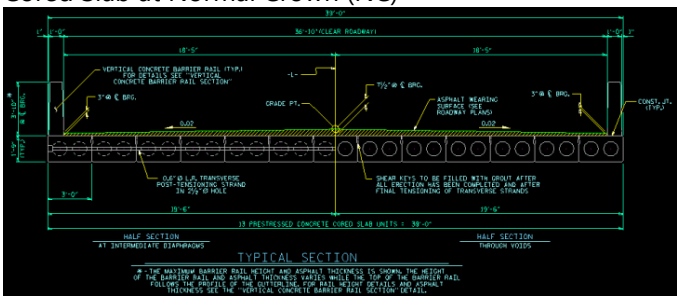
Four new bridge templates have been created for use in Corridor Modeling projects.



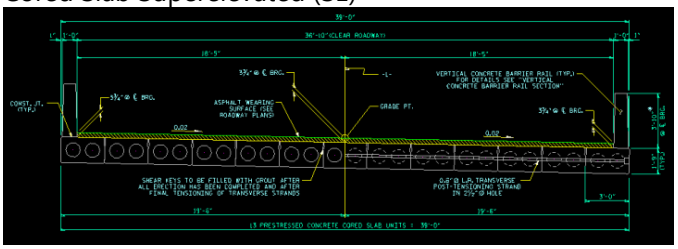

- Bridge - Box Beam (NC) – TMP
- Bridge - Box Beam (SE) – TMP
- Bridge - Cored Slab (NC) – TMP
- Bridge - Cored Slab (SE) – TMP

For each structure type choose whether normal crown (NC) or superelevated (SE from RC 2% to FS 6% (8% for western region due to icing)). These are based off Structure Design's details.

Cored Slab at Normal Crown (NC)

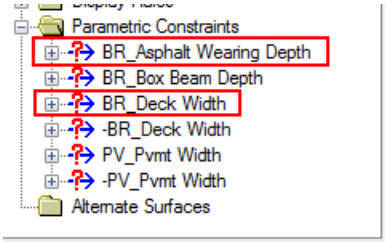



Cored Slab Superelevated (SE)



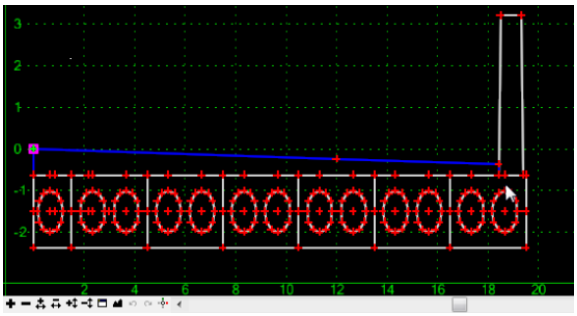
Two important parametric constraints should be used for these templates:

- BR_Asphalt Wearing Depth (@ CL BRG.)
- BR_Deck Width

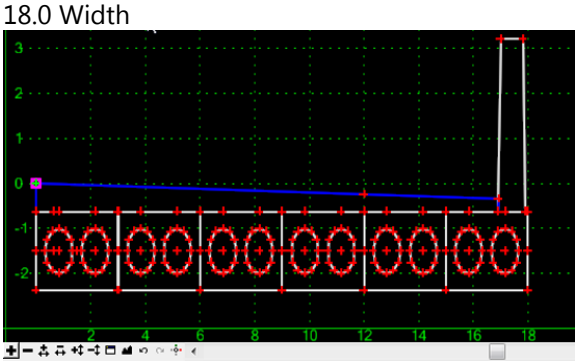



Structure calls for box beam and cored slab bridge widths in increments of 3′ (for each slab unit) starting at 27′ to 39′. Parametric constraint label "BR_Deck Width" should be in increments of 1.5′ (per side) starting from 13.5′ to 19.5′. This will determine the number of internal slab units as well as the center unit (at Centerline) being a full or half piece.

19.5′ Width



18.0 Width



A table, as well as a "help" module will be created for the recommended "Asphalt Wearing Depth" base on deck/span widths at a later time.