Bridge Rail Modeling Guidelines in HEC-RAS

These guidelines are to be used as a guide to provide consistency in modeling bridge rails in HEC-RAS for NCDOT projects. As always, Engineers should use their own engineering judgment when coding in bridge railings and guardrails. There may be situations where coding in different heights and lengths of bridge rails and/or guardrails may be warranted. It is recommended that the engineer document their decisions on modeling bridge rails if they are different than noted below.

- Model existing bridge rail based on height and length and show as blocked.

- Model proposed bridge rail based on height and bridge length and show as blocked. Model the first 12' of guardrail anchor unit at each end of bridge and show as blocked (see roadway standard drawings 862.03).