

LOAD RATING

Initial Load Rating

All new and reconstruction projects must be rated in the design phase. A preliminary load rating should be completed prior to the submittal of the final plan set.

For pre-manufactured items, (Precast Beams, Precast Box Culverts, & Metal Culverts), the preliminary load rating should be completed during shop drawing review, prior to fabrication. This rating should use the same design assumptions used to prepare the plans and shop drawings and should confirm that the foundation design strengths are met.

A final load rating, incorporating any changes in the dimensions, materials, or design details during construction, must be completed within 3 months after the bridge opens to traffic.

Inspection:

- [Inspect X](#) 
- [ND Bridge Inspection Manual](#) 
- [ND SNBI Coding Guide](#) 
- [Bridge Inspection Notification Form](#) 
- [Bridge Critical Finding Form](#)
- [NDDOT PONTIS](#)
- [AASHTOWare BrM](#)

Scour Critical Bridges:

- [Scour \(Metric 18\) Local Training PowerPoint](#) 
- [Scour \(Metric 18\) Local Training Recording](#)

Load Rating:

- [ND Bridge Load Rating Manual](#) 
- [Load Rating Summary Sheet](#) 



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For load ratings calculated during the design phase, all design level, legal level, and permit level rating factors must be greater than or equal to 1.0. If the bridge is located on a 10% Overweight Permit Route, then the Type 3, Type 3-3, Type 3S2, SU4, SU5, SU6, and SU7 must have a rating factor greater than or equal to 1.1.

- Emergency vehicles (EV) only need to be rated on Interstate bridges and bridges within 1 mile of the Interstate.
- The 129,000lb vehicles only need to be included on 129,000 lb routes. The 129,000lb vehicles may be considered as single lane loaded.

Emergency & Permit Vehicles

- Legal level
 - EV2
 - **EV3**
- Permit Level
 - 129A
 - 129B
 - 129C
 - 129D
 - 129E
 - 129F
 - 129G
 - 129H