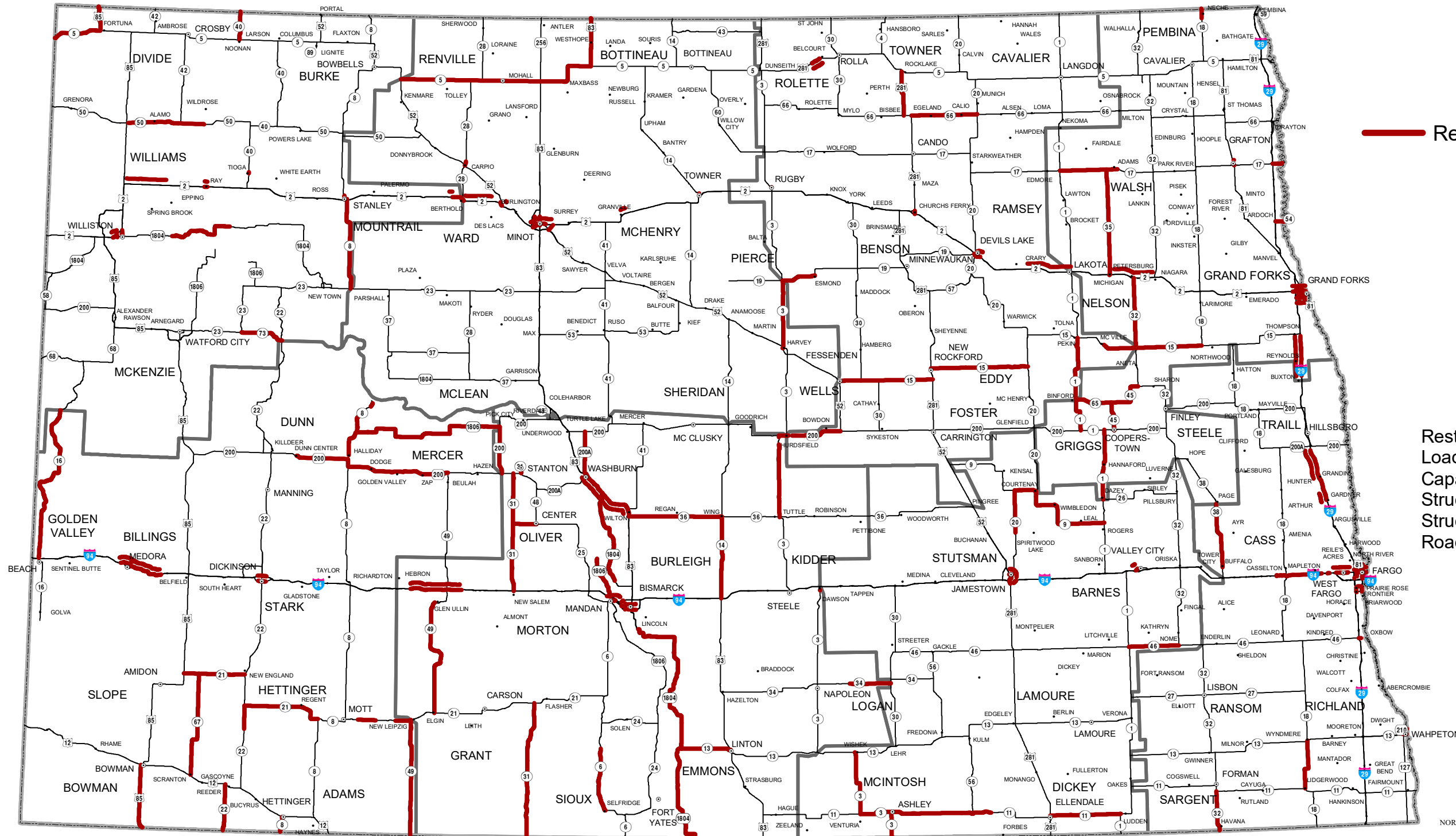


North Dakota State Highway Freight Constraints 2021



— Restricted Roadways

- Restrictions Include:
- Load Restriction
 - Capacity Restriction
 - Structure Height Restriction
 - Structure Width Restriction
 - Roadway Width Restriction



STATE OF
NORTH DAKOTA
PREPARED BY THE
NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
PLANNING/ASSET MANAGEMENT DIVISION
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY DEPARTMENT

April 2021

Functional Capacity Restriction Values

Restriction:	Interstate	Interregional 4-Lane	Level 1 Freight Class	Level 2 Freight Class	Level 3 Freight Class
Struc_Height	< 16.0	< 16.0	< 16.0	< 15.0	< 15.0
Struc_Widen	< 32.0	< 32.0	< 28.0	< 26.0	< 24.0
Load_Limit	<= 8.0	<= 8.0	<= 8.0	< 8.0	< 7.0
Travel_Way	< 32.0	< 32.0	< 28.0	< 26.0	< 24.0
Capacity	$v > 21,100 * \text{Number of Lanes};$ $v = \text{AADT} / f_{HV}$ $f_{HV} = 1 / (1 + P_{HV} * (E_{HV} - 1))$ $P_{HV} = \text{TAADT} / \text{AADT}$ $E_{HV} = 2$	$v > 20,800 * \text{Number of Lanes};$ $v = \text{AADT} / f_{HV}$ $f_{HV} = 1 / (1 + P_{HV} * (E_{HV} - 1))$ $P_{HV} = \text{TAADT} / \text{AADT}$ $E_{HV} = 2$	Rolling Terrain: AADT > 12,600 Level Terrain: AADT > 13,400	Rolling Terrain: AADT > 12,600 Level Terrain: AADT > 13,400	Rolling Terrain: AADT > 12,600 Level Terrain: AADT > 13,400