

# HYDRAULIC DESIGN DATA FOR BRIDGES

North Dakota Department of Transportation, Bridge  
SFN 9634 (7-2016)

Project Control Number	Project Number	Bridge Number
Drainage Area		Square Miles
Design Frequency		- Year
Design Discharge		cfs
Design Stage (upstream)		ft
Stream Gradient (ft/ft)		ft/ft
Waterway Provided Below Design Stage		sq ft
Waterway Provided Below Clearance Elevation		sq ft
Average Velocity of Flow in Natural Channel		ft/sec
Depth of Flow		ft
Velocity of Flow Under Bridge		ft/sec
Freeboard Provided		ft
1 00-year Frequency Discharge		cfs
1 00-year Frequency Stage		ft
Overtopping Stage		ft
Overtopping Discharge		cfs
Minimum Water Elevation		ft
Structure Selection		
Comments		