

# CHANNEL PROFILE

North Dakota Department of Transportation, Bridge  
SFN 17336 (7-2016)

Structure Number	Date	Inspector's Name
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## STREAM CROSS SECTION

**NOTE:** Stream profile is to be taken on both sides of **the** bridge. Check appropriate directions.

**Profile 1** taken on  N  S  E  W side of bridge, from  N to S  W to E

Measurements taken from top of  Curb  Rail  Deck

Measurements taken at \_\_\_\_\_ intervals. (ft.)

Measurements are as follows:

**Profile 2** taken on  N  S  E  W side of bridge, from  N to S  W to E

Measurements taken from top of  Curb  Rail  Deck

Measurements taken at \_\_\_\_\_ intervals. (ft.)

Measurements are as follows:

Evidence of Scour at Bridge	Yes	No	NA
Channel slopes washing or sloughing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Scour holes near abutments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Scour holes near piers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bed deposits downstream	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure of footings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Debris collection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Riprap (if any) displaced	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Existing Channel Condition	Yes	No	NA
Are channel banks up and downstream of bridge stable?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the channel degrading/aggrading up or downstream?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the Structure on a channel change?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are there lakes, reservoirs, dams, etc., near the crossing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Does the channel appear to be moving laterally in the area of the bridge?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Substructure Condition (Below Waterline)	Yes	No	NA
Is pier/abutment scaling?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is pier/abutment spalling?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is there exposed rebar?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Substructure Condition (Below Waterline)	Yes	No	NA
Is there exposed piling below footing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are there cracks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is there section loss on members?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If yes is answered to any of the questions, measurements should be taken. Also, include sketches along with dimensions when possible. These deficiencies shall be reflected in the rating of item 60. If these questions can not be answered, notify Bridge division.

**NOTE:** Take pictures or draw sketches of any and all factors contributing to scour or movement of the channel or streambed. Some factors are, but are not limited to, inadequate waterway area, ice jams/floes, debris, and channel/structures alignment. Give scour hole dimensions.

Enter any remarks or explanations for the above items below. Use an additional page if necessary.