Saint Paul, Minnesota 55155



January 15, 2018

The Honorable Paul Torkelson, Chair House Transportation Finance Committee 381 State Office Building Saint Paul, MN 55155

The Honorable Linda Runbeck, Chair House Transportation & Regional Governance Policy Committee 417 State Office Building Saint Paul, MN 55155

The Honorable Frank Hornstein, DFL Lead House Transportation Policy & Finance Committee 243 State Office Building Saint Paul, MN 55155 The Honorable Scott Newman, Chair Senate Transportation Finance & Policy Committee 3105 Minnesota Senate Building Saint Paul, MN 55155

The Honorable Scott Dibble Ranking Minority Member Senate Transportation Finance & Policy Committee 2213 Minnesota Senate Building Saint Paul, MN 55155

The Honorable Connie Bernardy, DFL Lead House Transportation & Regional Governance Policy Committee 253 State Office Building Saint Paul, MN 55155

RE: 2017 Trunk Highway Bridge Improvement Program Report

#### Dear Legislators:

I am pleased to present the Minnesota Department of Transportation's Trunk Highway Bridge Improvement Program annual report as required by Minnesota Statute §165.14, Subd. 6.

As you know, MnDOT works to provide a safe, reliable and sustainable transportation system. Continued progress on improving the condition of the state's bridges is anticipated as MnDOT continues to implement the trunk highway bridge improvement program.

Please do not hesitate to contact me if you have any questions about this report, or you can contact Amber Blanchard in MnDOT's Bridge Office at amber.blanchard@state.mn.us or 651 366-4504.

Sincerely,

Charles A. Zelle Commissioner



Report on

# Trunk Highway Bridge Improvement Program-Chapter 152

January 2018

#### Prepared by:

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### **Legislative Request**

This report is issued to comply with Minnesota Statutes 165.14.

#### 165.14 TRUNK HIGHWAY BRIDGE IMPROVEMENT PROGRAM.

#### Subdivision1. Definition

For purposes of this section, "program" means the trunk highway bridge improvement program established under this section.

#### Subd. 2. Program created

The commissioner shall develop a trunk highway bridge improvement program for accelerating repair and replacement of trunk highway bridges throughout the state. The program receives funding for bridge projects as specified by law.

#### **Subd. 3. Program requirements**

- (a) The commissioner shall develop an inventory of bridges included in the program. The inventory must include all bridges on the trunk highway system in Minnesota that are classified as fracture-critical or structurally deficient, or constitute a priority project, as identified by the commissioner. In determining whether a bridge is a priority project, the commissioner may consider national bridge inventory (NBI) condition codes, bridge classification as functionally obsolete, the year in which the bridge was built, the history of bridge maintenance and inspection report findings, the average daily traffic count, engineering judgments with respect to the safety or condition of the bridge, and any other factors specifically identified by the commissioner.
- (b) For each bridge included in the inventory, the commissioner must provide the following information: a summary of the bridge, including but not limited to, county and department district, route number, feature crossed, the year in which the bridge was built, average daily traffic count, load rating, bridge length and deck area, and main span type; the condition ratings for the deck, superstructure, and substructure; identification of whether the bridge is structurally deficient, functionally obsolete, or fracture-critical; the sufficiency rating; a brief description of the work planned for the bridge, including work type needed; an estimate of total costs related to the bridge, which may include general and planning cost estimates; and, the year or range of years in which the work is planned.

#### Subd. 4. Prioritization of bridge projects

- (a) The commissioner shall classify all bridges in the program into tier 1, 2, or 3 bridges, where tier 1 is the highest tier. Unless the commissioner identifies a reason for proceeding otherwise, before commencing bridge projects in a lower tier, all bridge projects within a higher tier must to the extent feasible be selected and funded in the approved state transportation improvement program, at any stage in the project development process, solicited for bids, in contract negotiation, under construction, or completed.
- (b) The classification of each tier is as follows:
  - (1) tier 1 consists of any bridge in the program that (i) has an average daily traffic count that is above 1,000 and has a sufficiency rating that is at or below 50, or (ii) is identified by the commissioner as a priority project;
  - (2) tier 2 consists of any bridge that is not a tier 1 bridge, and (i) is classified as fracture-critical, or (ii) has a sufficiency rating that is at or below 80; and

- (3) tier 3 consists of any other bridge in the program that is not a tier 1 or tier 2 bridge.
- (c) By June 30, 2018, all tier 1 and tier 2 bridges originally included in the program must be under contract for repair or replacement with a new bridge that contains a load-path-redundant design, except that a specific bridge may remain in continued service if the reasons are documented in the report required under subdivision 5. Bridges that are not originally included in the program and additional bridges identified for contract after the trunk highway bridge improvement program concludes on June 30, 2018, must be prioritized according to subdivision 7.
- (d) All bridge projects funded under this section in fiscal year 2012 or later must include bicycle and pedestrian accommodations if both sides of the bridge are located in a city or the bridge links a pedestrian way, shared-use path, trail, or scenic bikeway.

Bicycle and pedestrian accommodations would not be required if:

- (1) a comprehensive assessment demonstrates that there is an absence of need for bicycle and pedestrian accommodations for the life of the bridge; or
- (2) there is a reasonable alternative bicycle and pedestrian crossing within one-quarter mile of the bridge project.

All bicycle and pedestrian accommodations should enable a connection to any existing bicycle and pedestrian infrastructure in close proximity to the bridge. All pedestrian facilities must meet or exceed federal accessibility requirements as outlined in Title II of the Americans with Disabilities Act, codified in United States Code, title 42, chapter 126, subchapter II, and Section 504 of the Rehabilitation Act of 1973, codified in United States Code, title 29, section 794.

(e) The commissioner shall establish criteria for determining the priority of bridge projects within each tier, and must include safety considerations as a criterion.

#### Subd. 5. Statewide transportation planning report

In conjunction with each update to the Minnesota statewide transportation plan, or at least every six years, the commissioner shall submit a report to the chairs and ranking minority members of the House of Representatives and senate committees with jurisdiction over transportation finance. The report must include:

- (1) an explanation of the criteria and decision-making processes used to prioritize bridge projects;
- (2) a historical and projected analysis of the extent to which all trunk highway bridges meet bridge performance targets;
- (3) a summary of bridge projects (i) completed in the previous six years or since the last update to the Minnesota statewide transportation plan, and (ii) currently in progress under the program;
- (4) a summary of bridge projects scheduled in the next four fiscal years and included in the state transportation improvement program;
- (5) a projection of annual needs over the next 20 years;
- (6) a calculation funding necessary to meet the completion date under subdivision 4, paragraph (c), compared to the total amount of bridge-related funding available; and
- (7) for any tier 1 fracture-critical bridge that is repaired but not replaced, an explanation of the reasons for repair instead of replacement.

#### Subd. 6. Annual report

Annually by January 15, the commissioner shall submit a report on the program to the chairs and ranking minority members of the House of Representatives and senate committees with jurisdiction over transportation finance. The report must include the inventory information required under subdivision 3, and an analysis, including any recommendations for changes, of the adequacy and efficacy of

(1) the program requirements under subdivision 3, and (2) the prioritization requirements under subdivision 4.

#### Subd. 7. Prioritization of subsequent trunk highway bridge projects.

The trunk highway bridge improvement program described in subdivisions 1 through 6 concludes on June 30, 2018, and applies to bridge projects identified at the inception of the program. Additional bridges that did not qualify for the initial trunk highway bridge improvement program under the tiered classification system that may subsequently need repair or replacement must be prioritized as follows:

- (1) the commissioner shall develop a prioritization method for scheduling bridge repairs and replacements that will include consideration of the risk of service interruption resulting in temporary road closures or restrictions of existing bridges;
- (2) the prioritization system must consider factors including but not limited to bridge condition, age, load capacity, type of bridge, susceptibility to flood damage, fracture-critical design features, traffic volume, detour length, and functional classification of highway route;
- (3) the prioritization system must be utilized in conjunction with department knowledge of the bridge infrastructure to establish the repair and replacement program; and
- (4) the commissioner shall establish a risk-based prioritization system no later than February 1, 2011.

The cost of preparing this report is less than \$5,000.

### **Summary**

#### **Purpose and Scope of the Report**

The Trunk Highway Bridge Improvement Program Report, the ninth since 2009, is submitted in accordance with the requirements of Minn. Stat. 165.14. The information in this report is current as of November 2017.

All of the bridge projects in this report are part of a master bridge list developed on March 1, 2008 (revised on April 23, 2008) identifying 172 bridges that met the criteria established in <u>Laws of Minnesota 2008</u>, <u>Chapter 152</u>. This program focuses on those bridges classified as either structurally deficient or fracture critical.

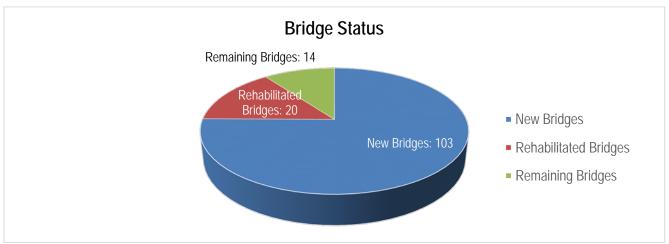
Of the 172 bridges identified as part of the Chapter 152 program, 137 bridges are under contract to be replaced or rehabilitated by June 30, 2018. The remaining bridges were either under construction at the time the program was established; classified as "Tier 3" under the priority system and were not required to be funded as part of the program (although many were already programmed for work); privately owned; or deemed in good working order and only in need of routine maintenance until after June 30, 2018.

#### **Project Status**

The status of the 172 bridges is as follows:

- 123 bridges are substantially complete (103 are new bridges and 20 are bridge rehabilitation projects)
- 4 bridges will be complete by the end of the 2018 construction season\*
- 10 bridges are scheduled to be under contract for repair or replacement in 2018\*
- 32 bridges only need routine maintenance during the Chapter 152 program years
- 2 bridges are privately owned
- 1 bridge is closed to traffic and therefore will not receive any work under Chapter 152

<sup>\*</sup> Bridge 69101 (Highway 2 WB off ramp over I35 ramp, railroad and lake) has an additional project in 2018 that is not included in these numbers. See Appendix C for more information.



NOTE: Project status of 137 bridges identified under Chapter 152 program that need work

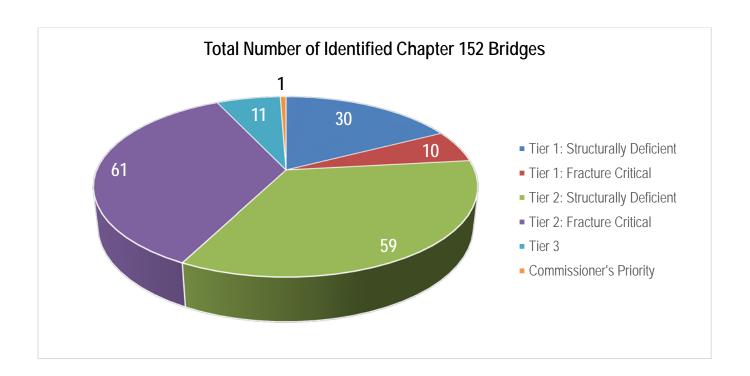
#### **Tier System**

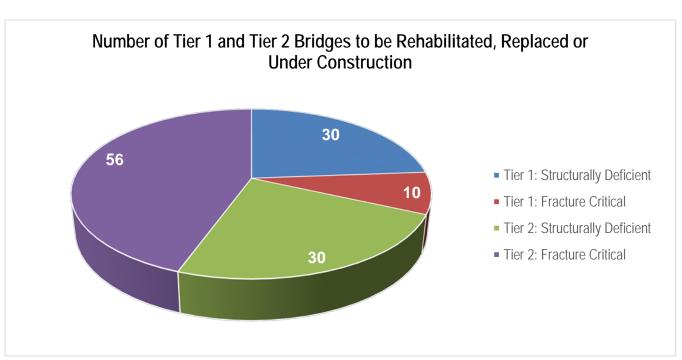
The legislation created a tier system to prioritize bridges based on each bridge's overall condition and usability. All bridges inventoried are classified as a Tier 1, Tier 2 or Tier 3 bridge, where Tier 1 is the highest priority. Unless the commissioner identifies a reason for proceeding otherwise, all bridge projects within a higher tier must, to the extent feasible, be selected and funded in the approved State Transportation Improvement Program before beginning bridge projects in a lower tier. This can occur at any stage in the project development process—during bid solicitation, contract negotiations, construction or completion.

- Tier 1: Any bridge with an average daily traffic count greater than 1,000 and a sufficiency rating that is at or below 50; or is identified by the commissioner as a priority project.
- Tier 2: Any bridge that is not a Tier 1 bridge, and is classified as fracture critical, or has a sufficiency rating that is at or below 80.
- Tier 3: Any other bridge meeting the program criteria (structurally deficient) that is not a Tier 1 or Tier 2 bridge.

The Bridge Office and the Office of Transportation System Management met with all MnDOT districts at the time the program was established to review the Tier 1 and Tier 2 bridge projects. Together the needed improvements for each bridge were identified, such as rehabilitation, re-deck, minor maintenance or replacement.

The outcome of those meetings provided information to the districts to determine project scopes, cost estimates and preliminary construction dates associated with the identified bridge improvements. The project scopes and cost estimates for the bridge projects were completed in December 2008 and are updated annually. There are several major bridges included in this program where ownership is shared with Canada, Wisconsin or North Dakota. For the purposes of this report, only Minnesota's cost share of those bridges is reported.





NOTE: Tier 3 bridges are not represented in above diagram

### **Chapter 152 Bridge Inventory**

A bridge inventory is included in this report with the following information:

- Bridge number
- County
- MnDOT district
- Route number
- Facility carried and feature crossed
- National Bridge Inspection Standards condition ratings (deck, superstructure, substructure)
- Bridge classification(s): structurally deficient, fracture-critical or functionally obsolete
- Sufficiency rating
- Year built
- · Average daily traffic count
- Load (operating) rating
- Length
- Deck area
- Main span type
- Brief description of the work planned
- Total project costs
- Year (or range of years) in which the work is planned
- Any notes on the bridge regarding history of bridge maintenance and inspection report findings, engineering judgments about the safety or condition of the bridge, or any other factors specifically identified by the commissioner

Each project within the 4-year STIP has a total project cost estimate associated with it. Projects planned for years beyond the STIP time frame have a total project cost estimate range identified.

In accordance with Minn. Stat. 165.14, MnDOT will accomplish the following by June 30, 2018:

- Tier 1: All 10 fracture critical bridges will be replaced, rehabilitated or under construction.
- Tier 1: All 30 of the structurally deficient bridges that are not fracture critical will be replaced, rehabilitated or under construction.
- Tier 2: Of the 61 fracture critical bridges originally identified, 56 will be replaced or repaired, 12 will be or have been replaced, 18 will be or have been repaired or renovated, two are privately owned, and one does not carry trunk highway traffic. The remaining Tier 2 fracture critical bridges that are not being repaired or replaced within this 10-year program have performed well and are only in need of routine maintenance at this time. Some of these bridges are planned for rehabilitation or replacement beyond 2018.
- Tier 2: Of the 59 structurally deficient bridges originally identified, 30 bridges will be replaced or repaired based on load posting status, maintenance history, condition and sufficiency ratings. The remaining 29

- structurally deficient bridges that are not being repaired or replaced within this 10-year program have either performed well and are only in need of routine maintenance at this time or are being planned for rehabilitation or replacement beyond 2018.
- Tier 3: Of the 11 structurally deficient bridges, replacements will be prioritized based on load posting status, maintenance history and condition ratings.
- Commissioner's Priority: One load-posted bridge (neither structurally deficient nor fracture critical) was added to this program as a commissioner's priority.
- Additional bridges that become structurally deficient during the next decade will be programmed for replacement or repair, as funding allows.

#### Assumptions that may affect the Chapter 152 Bridge Program include:

- The current appropriation schedule for bond funds during the 10-year program does not match the
  current schedule for bridge improvements, which creates a negative balance in the program.
   Redistribution of bond appropriations may be needed to match the current bridge schedule and
  estimates.
- The current projections of inflation rates were used to calculate cost estimates to the year of construction or the mid-year of construction for multi-year, large-scale bridges. There were 13 large-scale bridges identified in the inventory. The inventory spreadsheet for these bridges is Appendix A. TH 99 over the Minnesota River in St. Peter and Sorlie Bridge (US 2B over the Red River in East Grand Forks) were rehabilitated in-place and are no longer considered large-scale bridge projects.
- Schedule changes for any individual large-scale bridge may require a shift in the overall bridge project schedule for one or more of the other large-scale bridges.
- Current bridge conditions were used to develop this program. Significant changes in bridge conditions may affect the order and magnitude of funding needed to deliver this program.

### **Scheduling**

Projects will be scheduled using these priorities:

- 1. Bridge projects currently programmed in the 2018-21 STIP will be delivered as planned.
- 2. Large-scale bridges will be scheduled based on bond availability, project readiness, remaining bridge life and condition.
- 3. Remaining bridges will be replaced in order of tiers and generally ranked by these priorities:
  - a. Load posted
  - b. History of maintenance issues or inspection findings
  - c. Condition Code Four or less for superstructure
  - d. Condition Code Four or less for substructure
  - e. Sufficiency rating less than 50
  - f. Permit restricted
  - g. Sufficiency rating less than 80
  - h. Functional class (principal arterials before others)

### **Requirements and Recommendations for Changes**

Per Minn. Stat. 165.14, subdivision 6, the commissioner is to report on the adequacy and efficacy of (1) the program requirements under subdivision 3, and (2) the prioritization requirements under subdivision 4.

Under subdivision 3, the program requires the commissioner to develop an inventory of bridges on the trunk highway system that are classified as fracture critical or structurally deficient, or constitute a priority project. In determining whether a bridge is a priority project, the commissioner may consider national bridge inventory condition codes, bridge classification (such as functionally obsolete), the year in which the bridge was built, the history of bridge maintenance and inspection report findings, the average daily traffic count and engineering judgments with respect to the safety or condition of the bridge.

### **Structurally Deficient Bridges**

Prior to the enactment of this legislation, structurally deficient bridges were considered for replacement or rehabilitation as a part of programming and planning bridge projects. Prioritization occurred using the same criteria established in this legislation.

#### **Newer Fracture Critical Bridges**

Only certain fracture critical bridges are programmed or planned for replacement within the time frame of this program. Many fracture critical bridges on the trunk highway system were built after the mid-1970s, when the engineering community came to know more about steel fatigue. These newer bridges were designed and fabricated with improved details for resistance to fatigue. Steel specifications in the mid-1970s required steel "toughness" properties that provide resistance to fatigue. A Fracture Control Plan published in 1978 by the American Association of State Highway and Transportation Officials also served as a guide for fabricating bridges using improved welding techniques for assembly. Many of these bridges need only regularly scheduled maintenance or minor repairs within the time frame of this program and are not recommended for replacement until they near the end of their usable life. For this reason, the commissioner's broad interpretation of the legislation is to allow specific bridges to remain in service if the reasons are documented.

### **Historic Fracture Critical Bridges**

MnDOT coordinated with the Federal Highway Administration to implement the Historic Fracture Critical Bridge program. Under Section 106 of the National Historic Preservation Act, older fracture critical bridges eligible for the National Register of Historic Places required an in-depth study of the feasibility of rehabilitating these bridges prior to moving forward with a replacement project. As a part of these rehabilitation feasibility studies, MnDOT examined the potential for retrofitting fracture critical structures to provide load path redundancy. This is feasible for some types of fracture critical bridges. In other cases, such as truss bridges, the retrofit options examined did not provide designs that yield the 50-year service life expected from such a large investment. Additionally, some of the options examined would have created visual impacts that render the structure ineligible for the National Register. As with the newer fracture critical bridges described above, historic fracture critical bridges are also being considered as candidates for continued service.

### **Tier System**

Prioritization parameters under Minn. Stat. 165.14, subd. 4 require the commissioner to classify all bridges in the program into Tier 1, Tier 2 or Tier 3, with Tier 1 as the highest priority tier. Before beginning a bridge project prioritized within either Tier 2 or Tier 3, all bridge projects within Tier 1 must be funded in the approved STIP. The Tier 1 projects must be in some stage of the project development process, including bid solicitation, contract negotiation, under construction or completed.

The commissioner may identify projects within the lower tiers with special circumstances and decide to prioritize those projects ahead of Tier 1 bridges. The prioritizing criteria laid out in the legislation used much of the same criteria the commissioner used to prioritize bridges before the legislation was passed, except that the commissioner had not previously categorized bridges in tiers. Since the Chapter 152 program was implemented, MnDOT has found the tier system workable and has no changes to suggest regarding its adequacy and efficacy.

### **Prioritization of Subsequent Trunk Highway Bridge Projects**

### **Assessing Risk**

Legislation passed during the 2010 session requires expansion of the current planning process to include risk-based criteria for project identification outside of the Chapter 152 Bridge Improvement Program. The intent of introducing risk assessments is to provide a comprehensive look at factors that affect the likelihood of a service interruption and impacts of an interruption to the traveling public. The risk assessment process considers the following factors:

- Condition of the deck
- Condition of the superstructure
- Condition of the substructures
- Fatigue in steel structures
- Fracture criticality
- Scour susceptibility

- Geometric factors
- Special vulnerabilities
- Traffic volume
- Heavy commercial traffic
- Detour length
- Highway classification

MnDOT developed a process called Bridge Replacement and Improvement Management to incorporate the risk assessment tool. BRIM was developed and calibrated for use in the planning of bridge improvements and replacements. The BRIM process consists of three steps:

- Identifying improvement needs
- Ranking each bridge based on the bridge planning index
- Conducting an expert review

Improvement needs are developed based on bridge inspection and inventory data for each individual bridge using the expected deterioration of each bridge. The result is a draft list of bridge needs, including cost and schedule.

The next step incorporates the bridge planning index, or BPI, which applies the principles of risk assessment to the planning process and includes the factors mentioned previously. The BPI rates each individual bridge from 0 (highest priority) to 100 (lowest priority).

The last step in the BRIM process is the expert review with the MnDOT district offices. This step provides an opportunity for local experts with a more intimate knowledge of the bridges to ensure projects are programmed appropriately based on the local transportation needs, scope and schedule.

The expert review process is further refined by meeting with the MnDOT districts and making final changes based on the feedback collected. The updated bridge improvement needs are used as a basis for planning investments in state trunk highway bridges.

### Statewide Performance Program & District Risk Management Program

For many years, MnDOT allocated a large portion of revenue to its eight districts to progress towards performance targets and key objectives and to address district-specific risks. Since the passage of MAP-21 in 2012, federal policy and performance requirements direct the majority of federal funds to the National Highway System. This will continue in the newest federal transportation legislation, Fixing America's Surface Transportation Act of 2015, otherwise known as the FAST Act. Continuing to allocate most revenue to the eight districts might not meet NHS targets in an optimal way. Further, MnDOT must carefully manage the risk that the condition of state highways and bridges might negatively affect Minnesota's bond rating. Therefore, MnDOT developed the Statewide Performance Program and District Risk Management Program to respond to these changes.

Project selection in both programs, SPP and DRMP, continues to require coordination with local and regional units of government and the eight Area Transportation Partnerships, and outreach and information sharing with other stakeholders and the general public.

The SPP focuses on federal performance conditions, which require MnDOT to make progress towards pavement, bridge, safety and congestion performance targets. A failure to do so may result in the loss of some federal funding flexibility. MnDOT's functional and district offices will work collaboratively to select appropriate projects. These projects will focus on existing pavement conditions, bridges, roadside infrastructure rehabilitation and replacement, and it will include some lower cost, high-benefit projects to improve safety and mobility.

The DRMP focuses on non-NHS highways and addresses unique conditions at the district level. Revenue will be allocated to the districts to identify and prioritize projects in this program; however, project selections will be evaluated across districts in a collaborative process to ensure each district is balancing district-level risks and making progress towards statewide goals. Projects will focus on pavement, bridge, roadside infrastructure, safety and mobility.

### **Bicycle and Pedestrian Accommodations**

During the 2010 session, legislation passed requiring all bridge projects funded under the Chapter 152 program in fiscal year 2012 or later to include bicycle and pedestrian accommodations. The requirement applies if both sides of the bridge are located within a municipality or if the bridge links a pedestrian way, shared-use path, trail or scenic bikeway. Bicycle and pedestrian accommodations are not required if a comprehensive assessment demonstrates there is no need or there is a reasonable alternative within one-quarter mile of the bridge project. Bicycle and pedestrian accommodations are being implemented in accordance with the requirements of the legislation.

### **Appendix A: Status of Large-Scale Bridge Projects**

Name/Location	County	District	Bridge No.	Status
DeSoto, in St. Cloud; TH23 over Mississippi River & Riverside Dr.	Stearns	3	6748	Replacement complete
Robbin-Drayton; TH11 over Red River of the North	Kittson	2	6690	Replacement complete
Hastings; US61 over the Mississippi River, RR, Streets	Dakota	Metro	5895	Replacement complete
Lafayette; US52 over the Mississippi River, RR & Streets	Ramsey	Metro	9800	Replacement complete
Dresbach; I-90 over the Mississippi River	Winona	6	9320	Replacement complete
St. Peter; TH99 over the Minnesota River*	LeSueur	7	4930	Rehabilitation complete*
Cayuga; I-35 over Cayuga Street & BNSF RR	Ramsey	Metro	6515	Replacement complete
St. Croix River Crossing in Stillwater; TH36 over the St. Croix River	Washington	Metro	4654	Replacement complete
Winona; TH43 over the Mississippi River, RR, Streets	Winona	6	5900	Rehabilitation underway and new bridge complete
Sorlie Bridge, E Grand Forks; US 2B over the Red River of the North*	Polk	2	4700	Rehabilitation complete*
TH72 over the Rainy River in Baudette	Lake of the Woods	2	9412	Replacement planned for FY 2018
Red Wing; US63 over Mississippi River & CP Rail	Goodhue	6	9040	Replacement underway
New Ulm; TH14 over the Minnesota River	Brown	7	9200	Replacement underway

<sup>\*</sup> TH 99 over the Minnesota River in St. Peter and Sorlie Bridge (US 2B over Red River in East Grand Forks) were rehabilitated in-place and are no longer considered large-scale bridge projects.

### **Appendix B: Abbreviations and Definitions**

Abbreviation	Definition
ADT	Average daily traffic
Bridge length	Length of bridge from abutment to abutment
Bridge number	Unique number assigned to a specific bridge
CH 152 work planned	Type of work planned for bridge
CH 152 tier	Classification created by the Legislature - See Summary
Condition (NBIS rating)	National Bridge Inspection Standards rating given to a part of a bridge to identify its condition
Construction year planned	Estimated year construction is to begin
Deck area	Total bridge deck area (square feet)
Deck	Deck rating
District	MnDOT construction district; there are eight MnDOT districts
Facility/feature crossed	Facility carried by the bridge/feature being crossed by bridge
Fracture critical (Y=Yes, N=No)	A fracture critical bridge typically has a steel superstructure with load (tension)-carrying members arranged in a manner in which, if one fails, the bridge would collapse. Examples of fracture critical bridges are two-girder bridges or truss bridges. The classification of fracture critical does not mean the bridge is inherently unsafe.
Functionally obsolete (Y=Yes, N=No)	A functionally obsolete bridge is one that was built to standards that no longer meet the minimum federal clearance requirements for a new bridge. These bridges are not automatically rated as structurally deficient, nor are they inherently unsafe. Functionally obsolete bridges include those that have substandard geometric features, such as narrow lanes, narrow shoulders, poor approach alignment, or inadequate vertical under clearance. The classification of a bridge as functionally obsolete also indicates a priority status for federal funding eligibility.
Load (operating) rating	Load ratings based on the operating rating level generally describe the maximum permissible live load to which the structure may be subjected.  Allowing unlimited numbers of vehicles to use the bridge at operating level may shorten the life of the bridge.
Load posting	The placement of regulatory signs at a bridge indicating the safe load carrying capacity of the bridge.
Main span type	Type of main span superstructure
Notes	Notes on a specific bridge

Abbreviation	Definition
OL	Overlay
PT	Paint
RDK	Re-deck
Rehab	Rehabilitation
RE-OL	Re-overlay
Route Number	Trunk Highway, US Highway or Interstate on which project is located
RPL	Replace
Substructure	Structural parts of the bridge that support the superstructure and distributes all traffic and bridge loads into the ground. Substructures are typically referred to as piers or abutments.
Structurally deficient (Y=Yes, N=No)	Bridges are classified as structurally deficient if they have a general condition rating of 4 or less for the deck, superstructure, substructure or culvert, or if the road approaches regularly take on water due to flooding. The fact that a bridge is structurally deficient does not imply that it is unsafe. For bridge owners, the classification is a reminder that the bridge may need further analysis that may result in load posting, maintenance, rehabilitation, replacement or closure. If unsafe conditions are identified during a physical inspection, the structure will be closed. Structurally deficient is a term used to indicate a priority for federal funding eligibility.
SP#	State project number
SUB	Substructure rating
Substantially complete	Bridge is open to traffic
Sufficiency rating	Sufficiency rating is a computed numerical value that is used to determine eligibility for federal funding. The sufficiency rating formula result varies from 0 to 100. The formula includes factors for structural condition, bridge geometry and traffic considerations. The sufficiency rating formula is contained in the December 1995 edition of the "Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges." A bridge that is structurally deficient or functionally obsolete with a sufficiency rating of 80 or less is eligible for federal rehabilitation funding. Of those, a bridge with a sufficiency rating of less than 50 is eligible for federal replacement funding.
SUP	Superstructure rating
Superstructure	Structural parts of the bridge that provide the horizontal span. For example, the portion that directly supports the traffic and spans from one support to another support. Typical superstructure types include beams/girders, arches, trusses and suspension bridge.
Total project cost estimate	All project costs associated with the construction, engineering and right of way acquisition (including inflation out to the mid-year of construction and contingency)

Abbreviation	Definition
Value in ( )	Current value, updated from the 2008 value
Year built	Year the bridge was originally constructed
Year of substantial completion	Year the bridge is open to traffic after construction of the planned Chapter 152 work

Appendix C: Fracture Critical and Structurally Deficient Bridges	

			77	ST	FA			101/	PL C	S	YEAR	CH 152		(NBI	S RAT	ING)	В		×	רנ			FR	US
DISTRICT	BRIDGE NUMBER	CH 152 TIER	ROUTE NUMBER	STATE PROJECT #	FACILITY - FEATURE CROSSED	COUNTY	YEAR BUILT	TOTAL PROJECT COST ESTIMATE	PLANNED YEAR OF CONSTRUCTION	SUBSTANTIALLY COMPLETE	R OF SUBSTANTIAL COMPLETION	52 WORK PLANNED	ADT	DECK	SUP	SUB	BRIDGE LENGTH	DECK AREA	MAIN SPAN TYPE	LOAD (OPERATING) RATING	STRUCTURALLY DEFICIENT	FUNCTIONALLY OBSOLETE	FRACTURE CRITICAL	SUFFICIENCY RATING
1	6496	2	Hwy. 1	6901-27	HWY. 1 OVER FLINT CREEK	ST LOUIS	1952	\$782,348	2009	YES	2009	RPL	500	4	5	6	113	3,899	STEEL BEAM SPAN	HS 28.3	Y (N)	N	N	76.6
Notes: S	tructure repla	ced with n	ew Bridge 690	43					•			ı		•										
1	69100	2	Hwy. 2	6937-69100D	HWY. 2 OVER ST LOUIS RIVER, HWY. 35, & RR (BONG)	ST LOUIS	1982	\$10,541,000	2014	YES	2015	OL & PT	19,400	5 (7)	7	7	8,320	687,257	STEEL TIED ARCH	HS 40.6	N	N	Y	80.6 (79.5) (79.2)
Notes: E	order bridge	with Wisco	nsin; cost liste	d is MN share only	1				•															
1	69101	2	Hwy. 2	6937-101	HWY. 2 WB OFF RAMP OVER HWY. 35 RAMP, RR, LAKE	ST LOUIS	1983	\$442,993	2013	YES	2014	OL & JOINTS	4,500	7	7	7	1,426	36,796	CSTL BEAM SPAN	HS 45.2	N	N	Y	97.7
1	69101	2	Hwy. 2	6937-102	HWY. 2 WB OFF RAMP OVER HWY. 35 RAMP, RR, LAKE	ST LOUIS	1983	\$793,750	2018	NO	2018	PIER CAP RETROFIT												
1	69102	2	Hwy. 2	6937-102	HWY. 2 EB ON RAMP OVER HWY. 35, RR, LAKE	ST LOUIS	1983	\$3,500,000	2018	NO	2018	PIER CAP RETROFIT	4,500	7 (8)	6	8 (7)	2,642	85,872	CSTL BEAM SPAN	HS 37.1	N	N	Υ	97.7
1	5470	2	Hwy. 23	0901-67	HWY. 23 OVER BNSF RR	CARLTON	1936	\$3,159,914	2015	YES	2016	RPL	730 (710)	4	4	5	201	6,757	STEEL BEAM SPAN	HS 24.9 (HS 19.4)	Υ	N	N	54.2 (45.0) (45.3)
Notes: F	eplaced with	new Bridge	e 09015																					
1	5554	3	Hwy. 23	0901-75	HWY. 23 OVER N FORK NEMADJI RIVER	CARLTON	1940	\$1,418,999	2015	YES	2015	RPL	550 (610)	4	7 (6)	6 (5)	107	3,620	STEEL BEAM SPAN	HS 27.0	Υ	N	N	83.3 (83.2)
Notes: T	ier 3 Bridge -	cost not in	cluded in Char	oter 152 Program.	Replaced with new Bridge 09018.																			
1	9782	2	Hwy. 23	5880-179	HWY. 23 OVER I 35	PINE	1959	\$1,990,409	2010	YES	2010	RPL	4,550	4	5	7	206	7,295	CSTL BEAM SPAN	HS 43.5	Y (N)	N	N	67.0
Notes: S	tructure repla	ced with n	ew Bridge 588	19																				
1	69831	2	135	6982-290	I 35 SB OVER DM&IR RY & BNSF RR	ST LOUIS	1967	\$7,578,442	2011	YES	2011	RPL	21,500 (24,000)	6 (5)	6 (5)	6 (5)	1,105	39,431	CSTL DECK GIRD	HS 30.4	N	N	Y	82.2 (81.6) (69.1)
Notes: S	tructure repla	ced with n	ew Bridge 698	65								1												
1	69832	2	135	6982-290	I 35 NB OVER DM&IR RY & BNSF RR	ST LOUIS	1967	\$5,881,284	2010	YES	2010	RPL	21,500 (24,000)	6	5	6 (5)	1,171	41,787	CSTL DECK GIRD	HS 31.4	N	N	Υ	71.1 (70.9)
Notes: S	tructure repla	ced with n	ew Bridge 698	66																				
1	69847	3	I 35	6982-285	I 35 SB OVER HWY. 2 EB	ST LOUIS	1964	\$1,819,741	2009	YES	2009	RPL	14,500	4	6	6	134	5,367	CSTL BEAM SPAN	HS 37.0	Y (N)	N	N	91.8

Notes: Tier 3 Bridge - cost not included in Chapter 152 Program. Structure replaced with new Bridge 69861

DISTRICT	BRIDGE NUMBER	CH 152 TIER	ROUTE NUMBER	STATE PROJECT#	FACILITY - FEATURE CROSSED	COUNTY	YEAR BUILT	TOTAL PROJECT COST ESTIMATE	PLANNED YEAR OF CONSTRUCTION	SUBSTANTIALLY COMPLETE	YEAR OF SUBSTANTIAL COMPLETION	CH 152 WORK PLANNED	ADT	(E) DECK	S RAT	ING)	BRIDGE LENGTH	DECK AREA	MAIN SPAN TYPE	LOAD (OPERATING) RATING	STRUCTURALLY DEFICIENT	FUNCTIONALLY OBSOLETE	FRACTURE CRITICAL	SUFFICIENCY RATING
1	69848	3	I 35	6982-285	I 35 NB OVER HWY. 2 EB	ST LOUIS	1964	see note	2009	YES	2009	RPL	14,500	4	7	6	132	5,310	CSTL BEAM SPAN	HS 37.8	Y (N)	N	N	91.8
Notes:	ier 3 Bridge -	cost not in	cluded in Chap	oter 152 Program.	Part of Bridge 69847 project, structure r	eplaced with Bridge 69	861				:												:	
1	69880	2	I 35	6982-290	I 35 OVER RECYCLE WAY & ONETA ST.	ST LOUIS	1968	\$8,790,152	2010	YES	2011	RPL	44,000	4	5	7	1,163	95,840	CSTL BEAM SPAN	HS 44.0	Y (N)	N	Υ	86.4 (74.8)
Notes: F	art of Bridge	69831 proj	ect. Structure r	eplaced with new	Bridge 69844																			
1	6544	2	Hwy. 39		HWY. 39; RR OVER ST LOUIS RIVER	ST LOUIS	1916					None - Privately Owned	1,900 (2,150)	8	6 (5)	6	1,889	47,218	STEEL MOVEABLE	HS 33.0	N	Υ	Y	69.6 (69.3)
Notes: F	R owned. Re	hab in 200	9				-																	
1	69004	2	Hwy. 53	6918-86	HWY. 135 OVER HWY. 53 NB, SB ON RAMP	ST LOUIS	1961	\$90,000,000	2015	YES	2017	RPL	8,300	4	6	6 (5)	140	6,905	PRESTR BEAM SPAN	HS 39.0 (HS 29.5)	Υ	N	N	62.9 (90.3) (88.2)
Notes: E	ridge 69004 v	will be repla	aced with new	Bridge 69130 as p	art of the US53 realignment project. Co	sts part of US53 realign	ment proje	ect.																
1	69029	2	Hwy. 53	6916-103	HWY. 33 NB OVER HWY. 53 SB	ST LOUIS	1966	\$2,537,858	2012	YES	2012	RPL	1,450	4	5	6	126	3,228	CSTL BEAM SPAN	HS 42.1	Y (N)	N	N	79.9
Notes: S	tructure repla	aced with ne	ew Bridge 6906	65																				
1	90249	2	Hwy. 53		HWY. 53 SB OVER RAINY RIVER	KOOCHICHING	1912					None - Privately Owned	1,575 (3724)	6	5	5	941	31,560	STEEL HIGH TRUSS	HS 50.0 (HS 11.0)	N (Y)	Y (N)	Y	62.8 (62.6) (36.9)
Notes: F	rivately owne	ed.																						
1	5721	1	Hwy. 65	3609-39C	HWY. 65 OVER LITTLE FORK RIVER	KOOCHICHING	1877	\$829,913	2009	YES	2009	RPL	6804	5	4	5	378	378	IRON HIGH TRUSS	HS 16.2	Y (N)	N	Y	20.2
Notes: S	tructure repla	aced with ne	ew Bridge 3602	25																				
1	6736	2	Hwy. 65	3110-12	HWY. 65 OVER SWAN RIVER	ITASCA	1950	\$1,216,876	2009	YES	2009	RPL	880	3	5	5	128	4,416	STEEL BEAM SPAN	HS 29.7	Y (N)	N	N	77.7
Notes: S	tructure repla	aced with ne	ew Bridge 3100	02																				
1	6767	2	Hwy. 65	3609-34	HWY. 65 OVER HAY CREEK	KOOCHICHING	1951	\$1,047,298	2013	YES	2013	RPL	90 (115)	6	6	4	27	810	STEEL BEAM SPAN	HS 25.1	Y (N)	N	N	64.9 (63.9)
Notes: S	tructure repla	aced with ne	ew Culvert 36X	(11						<u> </u>														
1	5718	2	Hwy. 123	5802-23	HWY. 123 OVER KETTLE RIVER & ST	PINE	1948	\$2,426,242	2013	YES	2013	OL & PT	2,050	6 (8)	5 (6)	7 (6)	403	15,951	CSTL DECK TRUSS	HS 20.4	N	N	Υ	78.6 (62.3)

Notes: Since truss has performed well, bridge will continue to function safely with repair project and continued maintenance. Bridge 5718 is HISTORIC and on the 'Preservation Agreement' list.

DISTRICT	BRIDGE NUMBER	CH 152 TIER	ROUTE NUMBER	STATE PROJECT#	FACILITY - FEATURE CROSSED	COUNTY	YEAR BUILT	TOTAL PROJECT COST ESTIMATE	PLANNED YEAR OF CONSTRUCTION	SUBSTANTIALLY COMPLETE	YEAR OF SUBSTANTIAL COMPLETION	CH 152 WORK PLANNED	ADT	(N DECK	S RAT	ING)	BRIDGE LENGTH	DECK AREA	MAIN SPAN TYPE	LOAD (OPERATING) RATING	STRUCTURALLY DEFICIENT	FUNCTIONALLY OBSOLETE	FRACTURE CRITICAL	SUFFICIENCY RATING
1	69003	2	Hwy. 169	6934-113	HWY. 169 OVER BN RR (ABAN) & TRAIL	ST LOUIS	1961	\$3,403,817	2009	YES	2009	See note	14,400 (15,100)	6	4	6	198	13,312	CSTL BEAM SPAN	HS 31.2	Υ	N	N	59.1 (58.8)
Notes: E	ridge remove	ed, not repla	aced		_				•															
1	69839	2	Hwy. 194	6937-102	NB MICHIGAN ST OVER HWY. 194 SB	ST LOUIS	1969	\$1,905,000	2018	NO	2018	RPR, Redeck & Retrofit	4,200 (5,500)	5	7 (6) (5)	6 (7)	318	10,700	CSTL BEAM SPAN	HS 46.8	N	Υ	Υ	77.6 (76.4) (65.3)
Notes: C	urrently FC d	lue to pier o	cap configuration	on, which will be a	nalyzed for redundancy as part of rehabi	litation project.																		
1	69840	2	Hwy. 194	6937-102	HWY. 194 NB OVER SUPERIOR ST	ST LOUIS	1968	\$1,000,000	2018	NO	2018	RPR & Retrofit	9,250	7 (6)	6	(7) (6)	300	10,093	CSTL BEAM SPAN	HS 38.1	N	Y (N)	Υ	78.1 (80.1)
Notes: C	urrently FC d	lue to pier o	cap configuration	on, which will be a	nalyzed for redundancy as part of rehabi	litation project.	•											'						
1	09001	2	Hwy. 210	0916-11	HWY. 210 OVER ST LOUIS RIVER	CARLTON	1961	\$3,265,179	2012	YES	2012	RPR & Retrofit	1,350 (1,300)	5 (4) (8)	5 (6)	6 (5) (6) (7)	223	7,850	STEEL HIGH TRUSS	HS 23.0 (HS 13.0)	N (Y) (N)	N	Y	51.7 (48.7) (39.6) (56.9)
Notes: S	ince truss ha	s performe	d well, bridge v	will continue to fund	ction safely with completed project and c	continued maintenance.																		
1	9030	2	l 535	6981-9030E	I 535 OVER ST LOUIS R; RR,STREET (Blatnik)	ST LOUIS	1961	\$11,311,829	2012	YES	2013	Deck Seal & Paint	28,000	8 (6)	6 (5) (4)(5)( 4)	7 (6) (5)(6)	7,980	594,187	CSTL HIGH TRUSS	HS 21.6	N (Y)	Y (N)	Υ	72.3 (53.8) (42.8)
1	9030	2	I 535	6981-25	I 535 OVER ST LOUIS R; RR,STREET (Blatnik)	ST LOUIS	1961	\$1,270,000	2016	YES	2016	Gusset Plate Repair												
Notes: E	order bridge	with Wisco	nsin. Rehabili	tated in 1993. Rep	pairs continue as needed. Bridge will be	replaced between 2025	5 - 2035.					•										•		
1	69824	2	I 535		I 535 SB ON RAMP OVER I 535 NB & I 35 NB	ST LOUIS	1969		2019-2027			RPL	5,625	6 (7)	7 (6)	6	1,430	36,754	CSTL DECK GIRD	HS 25.9 (HS 23.4)	N	(N) (Y)	Y	86.6 (82.0)
Notes: F	C bridge, dist	trict plans t	o program a se	eries of bridges wit	hin the Twin Ports interchange, this bride	ge is included. Planned	replaceme	ent is beyond 2018. Re	epair work done	with Bridge	69831 project.													
1	69825	2	I 535		I 535 NB OFF RAMP OVER BNSF RAILROAD	ST LOUIS	1969		2019-2027			RPL	5,625	5 (6) (8)(7)	7 (6) (7)(6)	7	877	22,534	CSTL DECK GIRD	HS 23.7 (HS 22.8)	N	N	Υ	84.4 (85.4) (83.9)
Notes: F	C bridge, dist	trict plans t	o program a se	eries of bridges wit	hin the Twin Ports interchange, this brid	ge is included. Planned	replaceme	ent is beyond 2018. Re	epair work done	with Bridge	69831 project.													
1	69801A	3	I 535		I 535 SB OFF RAMP OVER FILL	ST LOUIS	1969		2019-2027			RPL	2,200	4 (7)	7	8	229	6,106	CSTL BEAM SPAN	HS 23.2 (HS 28) (HS 30.2)	Y (N)	N	N	85.0 (97.1)
Notes: F	C bridge, dist	trict plans t	o program a se	eries of bridges wit	hin the Twin Ports interchange, this brid	ge is included. Planned	replaceme	ent is beyond 2018. Re	epair work done	with Bridge	69831 project.													
1	69801C	2	l 535		I 535 SB ON RAMP OVER RAILROAD & FILL	ST LOUIS	1969		2019-2027			RPL	3,300	7 (6) (7)	7 (6) (7)	6 (5)	666	17,108	CSTL BEAM SPAN	HS 25.7 (HL 93 0.91)	N (Y)	N	Υ	89.4 (78.4) (78.3) (36.1)
Notes: F	C bridge, dist	trict plans t	o program a se	eries of bridges wit	hin the Twin Ports interchange, this brid	ge is included. Planned	replaceme	ent is beyond 2018. Re	epair work done	with Bridge	69831 project.													
1	69801F	2	I 535		I 535 SB SEG 1 OVER I 35 & RAMP TO I 35 SB	ST LOUIS	1969		2019-2027			RPL	6,625	7	7 (6)	5 (6)	576	21,139	CSTL BEAM SPAN	HS 22.9 (HL 93 0.88)	N	N (Y)	Y	63.9 (64.9) (75.0) (24.8)
Natara E	A				hin the Twin Ports interchange, this bride																			

Notes: FC bridge, district plans to program a series of bridges within the Twin Ports interchange, this bridge is included. Planned replacement is beyond 2018. Repair work done with Bridge 69831 project.

					•																			
			RC	STATE	FAC			TOTAL E	PLANNED YEAR OF CONSTRUCTION	SL	YEAR OF SUBSTANTIAL COMPLETION	CH 152		(NBI	IS RAT	ING)	BR		MA	LO/	S	- F	FRA	SUFI
DIST	BRI NUN	CH 152 TIER	ROUTE NUMBER	TE PI	CRO:	COI	YEAR BUILT	. PRC ESTII	NNED	SUBSTANTIALLY COMPLETE	OF SU		Þ				BRIDGE	DECK	MAIN SPAN TYPE	ΔD (O RA1	TRUC DEFIO	FUNCTIONALLY OBSOLETE	CTUR	-ICIEI
DISTRICT	BRIDGE NUMBER	2 TIE	NUM	PROJECT	- FEA	COUNTY	BUIL	JEC1 WATE	) YEA	LET!	JBST _ETIC	유 면	ADT	DECK	SUP	SUB	LENGTH	AREA	AN T	PER <i>i</i> 'ING	TUR/ CIENT	IONA	Æ CR	NCY F
		,	BER	CT#	FACILITY - FEATURE CROSSED		Ţ	. PROJECT COST ESTIMATE	R OF	:: {	ANTI	WORK PLANNED		X	Р	В	GTH	Α	ΥPE	LOAD (OPERATING) RATING	STRUCTURALLY DEFICIENT	∃ דרא	FRACTURE CRITICAL	SUFFICIENCY RATING
					111			iΤ			1	ED								)			<u>-</u>	IG
1	69801J	2	I 535		I 535 NB SEG 1 OVER I 35 NB & SB OFF RAMP	ST LOUIS	1969		2019-2027			RPL	6,625	7 (6) (7)	7 (6)	6	489	12,562	CSTL BEAM SPAN	HS 25.0 (HS 20.6)	N	N	Υ	87.2 (79.5)
Notes: I	C bridge, dis	trict plans t	to program a se	eries of bridges wit	thin the Twin Ports interchange, this brid	ge is included. Planned	replacem	ent is beyond 2018. R	Repair work don	e with Bridge	e 69831 project													
1	69801K	2	I 535		I 535 NB OFF RAMP OVER I 35 SB	ST LOUIS	1969		2019-2027			RPL	3,300	6 (7)	6 (7)	7 (6)	597	15,343	CSTL BEAM SPAN	HS 26.7 (HL- 93 1.09)	N	N (Y)	Υ	88.6 (89.6) (35.1)
Notes:	C bridge, dis	trict plans t	o program a se	eries of bridges wit	thin the Twin Ports interchange, this brid	ge is included. Planned	replacem	ent is beyond 2018. R	epair work don	e with Bridge	69831 project.	•	•									'		
1	69801N	2	I 535		I 535 NB SEG 3 OVER CP RAIL	ST LOUIS	1969		2019-2027			RPL	4,400 (7,750)	7	7 (6)	7	296	7,607	CSTL BEAM SPAN	HS 25.0 (HS 25.2)	N	N	Υ	88.4 (88.1) (88.7)
Notes: I	C bridge, dis	trict plans t	o program a se	eries of bridges wit	thin the Twin Ports interchange, this brid	ge is included. Planned	replacem	ent is beyond 2018. R	epair work don	e with Bridge	69831 project.													
2	04001	2	Hwy. 1	0401-08	HWY. 1 OVER OVERFLOW CHANNEL	BELTRAMI	1962	\$2,400,000	2016	YES	2016	RPL	55 (45)	5	4 (3)	6 (5)	217	7,566	PRECST CHAN SPAN	HS 50.0 (HS 31.5)	Υ	N	N	71.7 (71.0)
Notes:	o be replaced	d with new	Bridge 04029.		- -		-		-			-	-		-					-				
2	4561	2	Hwy. 1	0401-11	HWY. 1 OVER DITCH	BELTRAMI	1926	\$2,936,879	2009	YES	2009	RPL W/ CULVERT	55	5	4	4	25	692	STEEL BEAM SPAN	HS 19.0	Y (N)	N	N	54.4
Notes:	Structure repla	aced with n	ew Culvert 04)	K02																				
2	5581	1	Hwy. 1	1501-12	HWY. 1 OVER SANDY RIVER	CLEARWATER	1936	\$985,006	2010	YES	2010	RPL	3,000 (2,900)	4	5	5	49	1,470	CONC DECK GIRD	HS 28.2 (HS 29.6)	Y (N)	N	N	46.1 (48.9)
Notes:	Structure repla	aced with n	ew Bridge 150	07	•																			
2	9100	2	Hwy. 1	4509-05	HWY. 1 OVER RED RIVER OF THE NORTH (Oslo)	MARSHALL	1959		2025			REHAB or RPL	1,400 (1,350)	7	5	6	792	25,905	STEEL HIGH TRUSS	HS 27.1	N	N	Υ	55.6 (54.8)
Notes: I	Notes: Border	bridge with	North Dakota	. Historic bridge.	Project was let in 2014 as a rehab. Beca	ause of high bid prices p	oroject was	s not awarded. Projec	t is being postp	oned pendin	g the results of	further hydraulics	analysis.											
2	9090	2	Hwy. 2	6018-02	HWY. 2 OVER RED RIVER & CITY ST (Kennedy)	POLK	1963	\$22,000,000	2017	NO	2018	Redeck & Paint	21,500 (20,740)	6 (7) (5)	7 (6)	5 (4)	1,261	81,965	STEEL HIGH TRUSS	HS 26.8	N (Y)	N	Y	73.2 (61.2) (63.4) (48.2)
Notes: I	Border bridge	with North	Dakota. Histo	ric bridge. MnDOT	is lead agency for this border bridge pro	ject. Project is rehab wi	ith deck re	placement, replace on	e pier, railing re	eplacement a	and painting. Le	tting planned for D	ecember 2016.											
2	5557	2	Hwy. 11	3902-21	HWY. 11 OVER RAPID RIVER	LAKE OF THE WOODS	1950	\$3,414,358	2009	YES	2010	RPL	760 (784)	5	4	6	216	8,942	CONC ARCH	HS 18.0	N	N	N	49.1 (48.8)
Notes:	Replaced with	new Bridg	e 39008							-		-												
2	6690	1	Hwy. 11	3501-13	HWY. 11 OVER RED RIVER OF THE NORTH (ROBBIN)	KITTSON	1954	\$16,477,611	2009	YES	2010	RPL	1,400 (1,451)	5 (4)	5 (4)	7 (6)	1,058	31740	CSTL HIGH TRUSS	HS 20.6	N (Y)	N	Υ	48.5 (32.9)
Notes: I	Border bridge	with North	Dakota. Repla	aced with new Brid	lge 35011																			
2	9412	1	Hwy. 72	3905-09	HWY. 72 OVER RAINY RIVER	LAKE OF THE WOODS	1959	\$40,000,000	2018	NO	2020	RPL	2,100 (1,950)	5	5	5	1,285	34,053	STEEL HIGH TRUSS	HS 22.5	N	Y (N)	Υ	40.3 (48.8)
Materia	Pordor bridge				OT Load Final design to begin January																			

Notes: Border bridge with Ontario, Canada. Historic bridge. MnDOT Lead. Final design to begin January 2017.

	DISTRICT	BRIDGE NUMBER	CH 152 TIER	ROUTE NUMBER	STATE PROJECT#	FACILITY - FEATURE CROSSED	COUNTY	YEAR BUILT	TOTAL PROJECT COST ESTIMATE	PLANNED YEAR OF CONSTRUCTION	SUBSTANTIALLY COMPLETE	YEAR OF SUBSTANTIAL COMPLETION	CH 152 WORK PLANNED	ADT	DECK	S RAT	ING) SUB	BRIDGE LENGTH	DECK AREA	MAIN SPAN TYPE	LOAD (OPERATING) RATING	STRUCTURALLY DEFICIENT	FUNCTIONALLY OBSOLETE	FRACTURE CRITICAL	SUFFICIENCY RATING
2	2	6730	1	Hwy. 75	5409-26	HWY. 75 OVER DITCH	NORMAN	1949	\$1,424,455	2010	YES	2010		1,050	4	4	7	22	941	CONC SLAB SPAN	HS 23.2	Y (N)	N	N	40.4
Note	Notes: R	eplaced with	new Culve	rt 54X06				•						•				'					'		
1			1	,			NORMAN	1949	see note	2010	YES	2010		1,050	4	4	6	22	941	CONC SLAB SPAN	HS 23.5		N	N	40.4
No	Notes: R	eplaced with	new Culve	rt 57X07; Cost	incl w/ Br 6730 pr	oject.																			
2 39307 2 199, 171 NA 199, 171								1951	\$1,600,000	2010	YES	2010	RPL	1,050	4	6	6	225	7,695	CSTL BEAM SPAN	HS 25.6	Y (N)	N	N	83.3 (82.1)
1	Notes: T	ier 3 Bridge -	cost not in	cluded in Chap	oter 152 Program.	Structure replaced with new Bridge 5401	0						•	7											
2 6922 2 How, 200 5407-28 HWY, 20 FRIT RD OVER MARSH RIVER RIVER RIVER RIVER RIVER RIVER WIT RIVER	2				NA		KITTSON	1982	\$903,972	2009	YES	2009	RPR	800 (701)	6	7	4 (8)	2,080	115,024	CSTL BEAM SPAN			N	N	68.3 (96.7)
Receive   Process   Proc	Notes: B	order bridge	with North	Dakota.																					
Series   S	2	6522	2	Hwy. 200	5407-28		NORMAN	1924	\$344,334	2014	YES	2014	RPL	4	6	5		41	826		HS 20.7	N	N	Υ	70.6
The North (Griffon)	Notes: R	eplaced with	new Bridge	e 54011						T.			_	Ţ.										1	
2 4700 2 Hwy 2B 6015-07 RVYER (Sortie) POLK 199 \$5.644.974 2015 YES 2016 REHAB 12,700 6 5 6 60.6 24,887 STEEL HIGH TRUSS IN N N Y \$56.6 (48.4) (59.4) Notes: Express From North Delical Project was a rehab consisting of painting and minor repairs.  3 3622 1 Hwy 12 8602.40 HWY 12 OVER SFK CROW RIVE WIGHT 192 \$2.83,42,274 2008 YES 2008 RPL 15.500 4 4 4 4 178 6.568 CONC DECK GIRD IN SE2 V N N N N N A 43.4 Notes: SP 8602-40 (MAIN PROJ.) \$156.435.565; PLUS RIVE \$11,906.709. Structure replaced with new Bridge 8012	2	5872	2	Hwy. 317	4514-03		MARSHALL	1939	\$1,335,262	2013	YES	2013	Repair & PNT	320 (285)	7	5	7 (5)	412	10,712		HS 20.7	N	N	Y	
A	Notes: B	order bridge	with North	Dakota. Overl	ay in 2005; paint a	nd repairs were needed to maintain con-	dition, which should be	adequate f	or the next 20 years w	ith low ADT.				T											
3 3622 1 Hwy. 12 8602-40 HWY. 12 OVER S FK CROW RIVER WRIGHT 1922 \$28,342,274 2008 YES 2008 RPL 15,500 4 4 4 178 6,568 CONC DECK GIRD HS 28.2 V(N) N N 1 43.4 Notes: SP 8602-40 (MAIN PRO.), \$16,435,566; PLUS RW \$11,906,709. Structure replaced with new Bridge 86012  8 6748 1 Hwy. 23 0503-78 HWY. 23 OVER MISS R & RIVERSIDE DR (DESOTO) STEARNS 1957 \$21,737,384 2008 YES 2009 RPL 31,000 7 4 5 890 62,710 CSTL DECK TRUS V(N) N Y 66.4 Notes: SP 0503-786 (MAIN PRO.)) \$13,983,267 PLUS SP 0503-73014A (BRIDGE STEEL) \$7,136,574; SP 0503-79 (HOUSING REMOVAL CONTRACT) \$23,332; SP 0503-81 (LEAD PAINT REMOVAL) \$236,000; RW \$238,211. Structure replaced with new Bridge 73014  3 9086 2 Hwy. 23 7306-93 HWY. 23 OVER 10TH AVE STEARNS 1958 \$14,748,529 2009 YES 2009 RPL 29,000 4 4 4 189 15,015 STEEL BEAM SPAN HS 54,9 V(N) N N 55.0 Notes: SP 7306-93 (MAIN PRO.)) \$14,032,579 PLUS SP 7306-93 (MSIN SPR.)) \$272,418; RRW \$443,532 Structure replaced with new Bridge 73011  3 5790 1 Hwy. 71 7318-36 HWY. 71 OVER N FK CROW RIVER STEARNS 1937 \$734,302 2009 YES 2009 RPL 2,100 6 6 6 4 5 5 1,832 STEEL BEAM SPAN HS 18.5 V(N) N N 29,7	2	4700	2	Hwy. 2B	6015-07		POLK	1929	\$5,644,974	2015	YES	2016	REHAB	12,700	6	5	6	602.6	24,887		HS 23.2	N	N (Y)	Y	
3 6748 1 Hwy. 23 O503-78 HWY. 23 OVER MISS R & RIVERSIDE DR (DESOTO) STEARNS 1957 \$21,737,384 2008 YES 2009 RPL 31,000 7 4 5 890 62,710 CSTL DECK TRUSS V (N) N Y 66.4  Notes: SP 0503-78 (MAIN PROL.) \$13,983,267 PLUS SP 0503-73014A (BRIDGE STEEL) \$7,136,574; SP 0503-79 (HOUSING REMOVAL CONTRACT) \$23,332; SP 0503-81 (LEAD PAINT REMOVAL) \$296,000; RW \$298,211. Structure replaced with new Bridge 73014  3 6790 1 Hwy. 71 7318-36 HWY. 71 OVER N FK CROW RIVER STEARNS 1937 \$734,302 2009 YES 2009 RPL 2,100 6 6 6 4 55 1,832 STEEL BEAM SPAN HS 18.5 V (N) N N 29.7	Notes: B	order bridge	with North	Dakota. Proje	ct was a rehab cor	nsisting of painting and minor repairs.																			
1 6748 1 Hwy. 23 0503-78 RIVERSIDE DR (DESOTT) STEARNS 1957 \$21,737,384 2008 YES 2009 RPL 31,000 7 4 5 890 62,710 CSTL DECK TRUS			1	J				1922	\$28,342,274	2008	YES	2008	RPL	15,500	4	4	4	178	6,568	CONC DECK GIRD	HS 28.2		N	N	43.4
RIVERSIDE DR (DESOTO)  STEARNS  197  \$21,737,384  2008  YES  2009  RPL  31,000  7  4  5  890  62,710  CSIL DECK RUSS  (N)  N  Y  60.4  Notes: SP 0503-78 (MAIN PROJ.) \$13,983,267 PLUS SP 0503-73014A (BRIDGE STEEL) \$7,136,574; SP 0503-79 (HOUSING REMOVAL CONTRACT) \$23,332; SP 0503-81 (LEAD PAINT REMOVAL) \$296,000; RW \$298,211. Structure replaced with new Bridge 73014    Notes: SP 7306-93 (MAIN PROJ.) \$14,032,579 PLUS SP 7306-93A (SIGNAL SYS.) \$272,418; RW \$443,532. Structure replaced with new Bridge 73011    Notes: SP 7306-93 (MAIN PROJ.) \$14,032,579 PLUS SP 7306-93A (SIGNAL SYS.) \$272,418; RW \$443,532. Structure replaced with new Bridge 73011    Notes: SP 7306-93 (MAIN PROJ.) \$14,032,579 PLUS SP 7306-93A (SIGNAL SYS.) \$272,418; RW \$443,532. Structure replaced with new Bridge 73011    Notes: SP 7306-93 (MAIN PROJ.) \$14,032,579 PLUS SP 7306-93A (SIGNAL SYS.) \$272,418; RW \$443,532. Structure replaced with new Bridge 73011    Notes: SP 7306-93 (MAIN PROJ.) \$14,032,579 PLUS SP 7306-93A (SIGNAL SYS.) \$272,418; RW \$443,532. Structure replaced with new Bridge 73011    Notes: SP 7306-93 (MAIN PROJ.) \$14,032,579 PLUS SP 7306-93A (SIGNAL SYS.) \$272,418; RW \$443,532. Structure replaced with new Bridge 73011    Notes: SP 7306-93 (MAIN PROJ.) \$14,032,579 PLUS SP 7306-93A (SIGNAL SYS.) \$272,418; RW \$443,532. Structure replaced with new Bridge 73011    Notes: SP 7306-93 (MAIN PROJ.) \$14,032,579 PLUS SP 7306-93A (SIGNAL SYS.) \$272,418; RW \$443,532. Structure replaced with new Bridge 73011    Notes: SP 7306-93 (MAIN PROJ.) \$14,032,579 PLUS SP 7306-93A (SIGNAL SYS.) \$272,418; RW \$443,532. Structure replaced with new Bridge 73014    Notes: SP 7306-93 (MAIN PROJ.) \$14,032,579 PLUS SP 7306-93A (SIGNAL SYS.) \$272,418; RW \$443,532. Structure replaced with new Bridge 73014	Notes: S	P 8602-40 (N	MAIN PROJ	l.) \$16,435,565	; PLUS R/W \$11,9	906,709. Structure replaced with new Bri	dge 86012																		
3 9086 2 Hwy. 23 7306-93 Hwy. 23 OVER 10TH AVE STEARNS 1958 \$14,748,529 2009 YES 2009 RPL 29,000 4 4 4 189 15,015 STEEL BEAM SPAN HS 54.9 Y(N) N N 55.0  Notes: SP 7306-93 (MAIN PROJ.) \$14,032,579 PLUS SP 7306-93A (SIGNAL SYS.) \$272,418; R/W \$443,532. Structure replaced with new Bridge 73011  3 5790 1 Hwy. 71 7318-36 Hwy. 71 OVER N FK CROW RIVER STEARNS 1937 \$734,302 2009 YES 2009 RPL 2,100 6 6 6 4 55 1,832 STEEL BEAM SPAN HS 18.5 Y(N) N N 29.7	3		1			RIVERSIDE DR (DESOTO)								·	7	4			62,710	CSTL DECK TRUSS			N	Υ	66.4
Notes: SP 7306-93 (MAIN PROJ.) \$14,032,579 PLUS SP 7306-93A (SIGNAL SYS.) \$272,418; R/W \$443,532. Structure replaced with new Bridge 73011  3 5790 1 Hwy. 71 7318-36 HWY. 71 OVER N FK CROW RIVER STEARNS 1937 \$734,302 2009 YES 2009 RPL 2,100 6 6 4 55 1,832 STEEL BEAM SPAN HS 18.5 Y (N) N N 29.7	Notes: S	P 0503-78 (N	AAIN PROJ	l.) \$13,98 <mark>3,26</mark> 7	PLUS SP 0503-7	3014A (BRIDGE STEEL) \$7,136,574; SF	0503-79 (HOUSING F	REMOVAL	CONTRACT) \$23,332	; SP 0503-81 (I	LEAD PAINT	REMOVAL) \$2	96,000; R/W \$298	,211. Structure i	replaced	with nev	w Bridge	73014							
3 5790 1 Hwy. 71 7318-36 HWY. 71 OVER N FK CROW RIVER STEARNS 1937 \$734,302 2009 YES 2009 RPL 2,100 6 6 4 55 1,832 STEEL BEAM SPAN HS 18.5 Y N N 29.7										2009	YES	2009	RPL	29,000	4	4	4	189	15,015	STEEL BEAM SPAN	HS 54.9	Y (N)	N	N	55.0
	Notes: S	P 7306-93 (N	AAIN PROJ	l.) \$14,032,579	PLUS SP 7306-9	3A (SIGNAL SYS.) \$272,418; R/W \$443	532. Structure replaced	d with new	Bridge 73011		_														
	3		1		7318-36	HWY. 71 OVER N FK CROW RIVER	STEARNS	1937	\$734,302	2009	YES	2009	RPL	2,100	6	6	4	55	1,832	STEEL BEAM SPAN	HS 18.5	Y (N)	N	N	29.7

Notes: Replaced with new Bridge 73045

D	7	CH	ROU	STATI	FACILITY - CROS		ΥE	TOTAL F	PLANI CON:	SUB	YEAR OF	CH 152 V		(NBI	S RATI	ING)	BRIDGE	DE	MAIN	LOAD	STR DI	FUN	FRACTURE	SUFFIG
DISTRICT	BRIDGE NUMBER	CH 152 TIER	ROUTE NUMBER	STATE PROJECT #	TY - FEATURE ROSSED	COUNTY	YEAR BUILT	TOTAL PROJECT COST ESTIMATE	PLANNED YEAR OF CONSTRUCTION	SUBSTANTIALLY COMPLETE	YEAR OF SUBSTANTIAL COMPLETION	WORK PLANNED	ADT	DECK	SUP	SUB	GE LENGTH	DECK AREA	MAIN SPAN TYPE	LOAD (OPERATING) RATING	STRUCTURALLY DEFICIENT	FUNCTIONALLY OBSOLETE	TURE CRITICAL	SUFFICIENCY RATING
3	86813	3	l 94	8680-142	I 94 WB OVER COUNTY ROAD 75 & RR	WRIGHT	1971	\$11,610,930	2009	YES	2010	RPL	25,500	4	5	7	480	21,443	CSTL BEAM SPAN	HS 32.0	Y (N)	N	N	81.3
Notes: SI	9 8680-142 \$	11,502,93	8 PLUS R/W \$	107,992; TIER 3 B	RIDGE - COST NOT INCLUDED IN CHA	APTER 152 PROGRAM	1. Structure	replaced with new Bri	dge 86819					"							'			
3	86814	3	l 94	8680-142	I 94 EB OVER COUNTY ROAD 75 & RR	WRIGHT	1972	SEE NOTE	2009	YES	2010	RPL	25,500	4	5	6	493	22,019	CSTL BEAM SPAN	HS 33.7	Y (N)	N	N	81.7
Notes: Co	ost included \	W/ Br 8681	3 project. Tier	3 Bridge - cost not	t included in Chapter 152 Program. Struc	cture replaced with new	/ Bridge 86	820																
3	91049	2	Hwy. 169	0115-41	HWY. 169 OVER RIPPLE RIVER	AITKIN	1964	\$1,004,562	2009	YES	2009	RPL	3,950	N	N	N	27	0	CONC BOX CULV	HS 24.0	Y (N)	N	N	58.1
Notes: SI	P 0115-41 \$1	,001,912 F	PLUS R/W \$2,6	650. Structure repla	aced with new Culvert 01X05																			
3	91050	2	Hwy. 169	0115-41	HWY. 169 OVER RIPPLE RIVER	AITKIN	1964	SEE NOTE <sup>4</sup>	2009	YES	2009	RPL	3,950	N	N	N	27	0	CONC BOX CULV	HS 24.0	Y (N)	N	N	58.1
Notes: Co	st incl w/ Br	91049 pro	ject. Structure	replaced with new	Culvert 01X06																			
4	6456	2	Hwy. 12	0602-24	HWY. 12 OVER MINNESOTA RIVER	BIG STONE	1953	\$1,672,758	2012	YES	2012	RPL	4,300 (4200)	4	7	7	63	2,539	CONC DECK GIRD	HS 28.3 (HS 25.4)	Y (N)	N	N	76.3 (73.0) (72.9)
Notes: St	ructure repla	ced with n	ew Bridge 060	02	_					,											1			
4	3067	1	Hwy. 29	6105-25	HWY. 29 OVER OUTLET CREEK	POPE	1920	\$1,073,858	2012	YES	2012	RPL	3,900 (3,344)	4	5	6	28	1,098	CONC DECK GIRD	HS 20.8	Y (N)	N	N	49.3 (49.0) (49.8)
Notes: St	ructure repla	ced with n	ew Bridge 610	04																				
4	6552	2	Hwy. 29	7607-29	HWY. 29 OVER DITCH	SWIFT	1948	\$8,850,000	2014	YES	2014	RPL	1,200 (1,299)	7	7	7	92	3,220	CONC SLAB SPAN	HS 20.6	Y (N)	N	N	54.1 (53.1) (52.9)
Notes: St	ructure repla	ced with n	ew Bridge 760	15												1					1	1		
4	5186	2	Hwy. 75	8408-44	HWY. 75 OVER WHISKEY CREEK	WILKIN	1932	\$12,560,000	2015	NO	2016	RPL	1,300 (1,150)	5	5	6	42	1,429	STEEL BEAM SPAN	HS 17.9	Υ	N	N	53.3 (54.3)
Notes: Co	st not includ	led in Char	oter 152 Progra	am. Replaced with	new Bridge 84005																			
4	21805	3	l 94	2180-104	I 94 WB OVER LATOKA LAKE	DOUGLAS	1967	\$4,500,000	2018	NO	2018	RPL	7,900 (7,750)	4 (5)(4)	6	6	126	5,179	CSTL BEAM SPAN	HS 31.8	Y (N)	N	N	88.2 (88.4) (90.5)
Notes: Ti	er 3 Bridge -	cost not in	cluded in Char	oter 152 Program.	Structure to be replaced with new Bridge	e 21829. Cost includes	s replacem	ent of Bridges 21805 &	k 21806.															
4	21813	2	Hwy. 29	2102-58	HWY. 29 SB OVER I 94	DOUGLAS	1965	SEE NOTE⁵	2016	YES	2016	RPL	10,400	4	5	5	235	10,099	CSTL BEAM SPAN	HS 44.1	Y	N	N	79.0 (78.0)
Notes: Co	st included i	in Bridge 2	1814 project.	Structure replaced	with new Bridge 21827.																			
4	21814	2	Hwy. 29	2102-58	HWY. 29 NB OVER I 94	DOUGLAS	1965	\$22,500,000	2016	NO	2016	RPL	10,400	4	6	5	235	8,404	CSTL BEAM SPAN	HS 44.1 (HS 34.2)	Y	N	N	66.7

Notes: Cost includes Bridges 21813 & 21814. Structure replaced with new Bridge 21827.

DISTRICT	BRIDGE NUMBER	CH 152 TIER	ROUTE NUMBER	STATE PROJECT	FACILITY - FEATURE CROSSED	COUNTY	YEAR BUILT	TOTAL PROJECT COST ESTIMATE	PLANNED YEAR OF CONSTRUCTION	SUBSTANTIALLY COMPLETE	YEAR OF SUBSTANTIAL COMPLETION	CH 152 WORK PLANNED	ADT	(NB) DECK	S RAT	ING) SUB	BRIDGE LEN	DECK AREA	MAIN SPAN TYPE	LOAD (OPERATING) RATING	STRUCTURALLY DEFICIENT	FUNCTIONALLY OBSOLETE	FRACTURE CRITICAL	SUFFICIENCY RATING
		∺	IBER	ECT#	ATURE )		Ц	ECT ATE	AR OF	ALLY E	N IAL	) R		×	Р	В	LENGTH	ΞA	ГҮРЕ	ATING)	ALLY T	YLLY E	RE	NCY
6	5337	1	Hwy. 3	6612-95	HWY. 3 OVER UP RR	RICE	1940	\$3,883,406	2008	YES	2008	RPL	7,300	5	4	5	296	9,956	STEEL BEAM SPAN	HS 26.5	Y (N)	N	N	30.7
Notes: \$	Structure repla	aced with n	ew Bridge 6600	02																				
6	6842	1	Hwy. 3	6612-95	HWY. 3 OVER CANNON RIVER	RICE	1955	SEE NOTE <sup>6</sup>	2008	YES	2008	RPL	7,300	4	4	3	176	5,635	CONC DECK GIRD	HS 35.0	Y (N)	N	N	25.9
Notes: 0	Costs included	d with Bridg	je 5337 Project	. Structure replace	ed with new Bridge 66003																			
6	5234	2	Hwy. 14	8501-62	HWY. 14 OVER STREAM	WINONA	1932	\$2,100,000	2023-2028			RPL	4,500 (4459)	6	6	6	46	1,840	CONC DECK GIRD	HS 68.6 (HS 30.8)	Y (N)	N	N	55.0 (56.0) (96.6)
Notes: I	Normal mainte	enance pla	nned for the pro	ogram years. Rep	lacement will be needed beyond 2018.						<u> </u>													
6	6036	1	Hwy. 14	2001+34	HWY. 14 OVER STREAM	DODGE	1930	\$283,000	2012	YES	2012	RPL	7,400 (7,750)	N	N	N	22	0	CONC BOX CULV	HS 24.0 (HS 21.6)	Y (N)	N	N	47.1 (37.8)
Notes: \$	Structure repla	aced with n	ew Culvert 20X	(20																				
6	74820	2	Hwy. 14	7401-34	HWY. 14 EB OVER I 35	STEELE	1965	\$1,900,000	2010	YES	2011	RPL	6,050	4	5	5	202	5,191	CSTL BEAM SPAN	HS 35.7	Y (N)	N	N	74.4
Notes: I	Bridge replace	ement is sn	nall portion of o	verall project costs	s. Structure replaced with new Bridge 74	832																		
6	5968	1	Hwy. 42	7901-43	HWY. 42 OVER N FORK WHITEWATER RIVER	WABASHA	1941	\$2,154,534	2012	YES	2012	RPL	3,000 (3,200)	6	4	4	96	3,168	CONC DECK GIRD	HS 30.0 (HS 24.7)	Y	N	N	45.0 (41.6) (41.4)
Notes: \$	Structure repla	aced with n	ew Bridge 7900	07																				
6	5900	1	Hwy. 43	8503-46	HWY. 43 OVER MISS RVR, RR, STREETS (WINONA)	WINONA	1941	\$183,500,000	2014	NO	2019	REHAB & RPL	11,900	6 (5)	5 (4)	6 (5)	2,289	78,724	CSTL HIGH TRUSS	HS 21.6	N (Y)	N	Υ	49.8 (23.7) (26.3) (24.3) (24.3)
Notes: I	Historic bridge	e. New Brid	ge 85851 built	next to existing tru	ss and open to traffic. Truss rehabilitation	on scheduled for June 2	2017 letting	. Dollars expended a	s of June 2017.															
6	23004	2	Hwy. 43	2306-22	HWY. 43 OVER S FORK ROOT RIVER	FILLMORE	1931	\$2,958,530	2012	YES	2012	RPL	540 (484)	6 (5) (6)	5 (3) (4)(6)		78	2,184	STEEL LOW TRUSS	HS 20.0	N (Y) (N)	N	Y	65.5 (31.3) (45.3)
Notes: \$	Structure repla	aced with n	ew Bridge 2302	25								<u></u>												
6	4148	2	Hwy. 44	2308-26	HWY. 44 OVER STREAM	FILLMORE	1923	\$240,000	2013	YES	2013	RPL W/CULVERT	2,300 (1,745)	N	N	N	23	0	CONC BOX CULV	HS 24.0 (HS 21.6)	Y (N)	N	N	66.9 (60.4) (59.4)
Notes: I	Bridge (Culver	rt) costs on	ly. Structure re	placed with new C	ulvert 23X10				_		-													
6	4150	2	Hwy. 44	2308-26	HWY. 44 OVER STREAM	FILLMORE	1923	\$240,000	2013	YES	2013	RPL W/CULVERT	2,100 (1,844)	N	N	N	23	0	CONC BOX CULV	HS 24.0 (HS 21.6)	Y (N)	N	N	67.2 (60.2) (59.2)
<u> </u>	Dridge (Cubice	-		alaaad uuitha mauu C																				

Notes: Bridge (Culvert) costs only. Structure replaced with new Culvert 23X12

DISTRICT	BRIDGE NUMBER	CH 152 TIER	ROUTE NUMBER	STATE PROJECT	FACILITY - FEATURE CROSSED	COUNTY	YEAR BUILT	TOTAL PROJECT COST ESTIMATE	PLANNED YEAR OF CONSTRUCTION	SUBSTANTIALLY COMPLETE	YEAR OF SUBSTANTIAL COMPLETION	CH 152 WORK PLANNED	ADT	(NBI DECK	IS RAT	ING) SUB	BRIDGE LENGTH	DECK AREA	MAIN SPAN TYPE	LOAD (OPERATING) RATING	STRUCTURALLY DEFICIENT	FUNCTIONALLY OBSOLETE	FRACTURE CRITICAL	SUFFICIENCY RATING
			H)	#	URE			COST	ŽQ	ĹΥ	NTIAL	NNED					H		PE	ING)	LY	LY	ICAL.	ATING
6	4151	2	Hwy. 44	2308-26	HWY. 44 OVER STREAM	FILLMORE	1923	\$240,000	2013	YES	2013	RPL W/CULVERT	2,100 (1,844)	N	N	N	23	0	CONC BOX CULV	HS 24.0 (HS 21.6)	Y (N)	N	N	67.2 (60.2) (59.2)
Notes:	Bridge (Culver	rt) costs on	ly. Structure rep	placed with new C												4				LIC 21.2	V			
6	5713	1	Hwy. 56	2006-25	HWY. 56 OVER MID FORK ZUMBRO RIVER	DODGE	1937	\$1,351,101	2011	YES	2012	RPL	1,500 (1,712)	5	5	(5)	65	1,820	STEEL BEAM SPAN	HS 31.3 (HS 29.5)	Y (N)	N	N	45.8 (61.4)
Notes:	Structure repla	aced with n	ew Bridge 2000	03	1																			
6	5905	2	Hwy. 56	5005-58	HWY. 56 FARM ENT OVER N BR UPPER IOWA RIVER	MOWER	1940		2015	NO		RPL	5	7	6	4 (3)	38	825	STEEL BEAM SPAN	HS 25.4 (HS 30.9)	Υ	N	N	66.3 (68.9)
Notes:	Rehabilitation	of structure	e done with dist	rict forces therefo	re no costs included for repair.																			
6	5188	1	Hwy. 58	2510-37	HWY. 58 OVER N FORK ZUMBRO RIVER	GOODHUE	1932	\$2,553,831	2010	YES	2010	RPL	6,700 (6,600)	4	4	5	113	4,956	STEEL BEAM SPAN	HS 18.5	Y (N)	N	N	18.4
Notes:	Structure repla	aced with n	ew Bridge 2502	25					1															
6	5370	1	Hwy. 60	6607-42	HWY. 60 OVER STRAIGHT R,RR,STREET	RICE	1937	\$10,800,000	2009	YES	2009	REHAB	10,500	5 (8)	4 (7)	4 (7)	951	42,795	CONC ARCH	HS 24.9	Y (N)	N	N	49.4 (77.2)
Notes:	Historic bridge	e. Deficiend	cies addressed	with major rehabi	litation.																			
6	5397	2	Hwy. 60	7903-45	HWY. 60 OVER TROUT BROOK	WABASHA	1935	\$400,000	2014	YES	2014	RPL	630	7	6	6 (7)	67	1,908	STEEL THRU GIRD	HS 19.0	N	N	Υ	73.0 (72.0)
Notes:	Structure repla	aced with n	ew Bridge 790°	1	•		I I								I									
6	6770	1	Hwy. 60	6606-34	HWY. 60 OVER CANNON RIVER	RICE	1952	\$1,797,266	2009	YES	2009	RPL	5,050	4	3	7	95	3,307	CONC DECK GIRD	HS 30.6	Y (N)	N	N	18.7
Notes:	Structure repla	aced with n	ew Bridge 6600	)4																				
6	6771	1	Hwy. 60	6606-34	HWY. 60 OVER CANNON RIVER	RICE	1952	\$606,302	2009	YES	2009	RPL	6,300	5	4	4	115	3,965	CONC DECK GIRD	HS 31.1	Y (N)	N	N	37.8
Notes:	Structure repla	aced with n	ew Bridge 6600	05	<u> </u>																			
6	9798	2	Hwy. 60	7903-41	HWY. 60 OVER STREAM	WABASHA	1961	\$1,996,439	2011	YES	2012	RPL	630	5	4 (3)	5	94	2,948	STEEL BEAM SPAN	HS 27.0 (HS 26.6)	Y (N)	N	N	70.1 (47.7)
Notes:	Structure repla	aced with n	ew Bridge 790	4																				
6	79000	2	Hwy. 60		HWY. 60 OVER MISS R, RR, & STS	WABASHA	1987					Only Normal Maintenance Needed	4,750	7	7	7	2,462	106,605	STEEL HIGH TRUSS	HS 39.2	N	N	Υ	73.5

Notes: FC bridge built in 1987. All NBIS condition ratings are good. Only normal maintenance planned during program years. Paint and overlay will be needed beyond 2018. See endnote 1.

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DIS	BF NUI	CH 1	ROUTE	STATE F	FACILITY - FEATURE CROSSED	CC	YEA	TOTAL PR EST	PLANNED YEAR OF CONSTRUCTION	SUBS1 CON	YEAR OF SUBSTANTIAL COMPLETION	CH 152 WC		(IVDI	3100		BRIDGE	DECK	MAIN S	LOAD (OPERATING) RATING	STRU DEF	FUNC OBS	FRACTURE CRITICAL	SUFFICIENCY RATING
DISTRICT	BRIDGE NUMBER	CH 152 TIER	ROUTE NUMBER	PROJECT	7 - FEAT DSSED	COUNTY	YEAR BUILT	L PROJECT COST ESTIMATE	D YEAR RUCTIC	SUBSTANTIALLY COMPLETE	SUBSTA	WORK PLANNED	ADT	DECK	SUP	SUB	E LENGTH	K AREA	MAIN SPAN TYPE	OPERAT \TING	STRUCTURALLY DEFICIENT	FUNCTIONALLY OBSOLETE	RE CRII	ENCY R/
			ER	Т#	ÜRE		·	COST	OF N	.LY	NTIAL	ANNED		^			HT		PE	'ING)	TA	ĹY	TICAL	ATING
6	6773	1	Hwy. 61	2513-70	HWY. 61 OVER GILBERT CREEK	GOODHUE	1954	\$4,989,983	2011	YES	2012	RPL	7,500 (8,800)	5	4	5	114	4,164	CONC DECK GIRD	HS 32.0 (HS 22.4)	Y (N)	N	N	37.6 (27.1)
Notes: S	tructure repla	aced with n	ew Bridge 250	24																		-		
6	9450	1	Hwy. 61	2513-86	HWY. 61 OVER NYMPHARA LANE	GOODHUE	1962	\$5,500,000	2014	YES	2014	RPL	8,000	4	4	5 (4)	100	6,350	PRESTR VD SLAB SPAN	HS 64.0 (HS 39.2)	Υ	N	N	36.0
Notes: S	tructure repla	aced with n	ew Bridge 250	28					•											ī.				
6	9040	1	Hwy. 63	2515-21	HWY. 63 OVER MISS RIVER & CP RAIL (RED WING)	GOODHUE	1958	\$90,000,000	2017	NO	2019	RPL	11,500 (11,400)	6 (5)	6	5	1,631	60,829	CSTL HIGH TRUSS	HS 34.0	N	N	Υ	44.8 (43.8)
Notes: E	order bridge	with Wisco	onsin. Total Co	st includes Wiscor	nsin Share. Structure replaced with new	Bridge 25033.			-															
6	6808	2	I 90	5080-153	I 90 EB OVER TWP RD & TURTLE CRK	MOWER	1959	\$3,945,382	2009	YES	2010	RPL	7,700	5	4	5	243	10,741	PRESTR BEAM SPAN	HS 33.0	Υ	N	N	65.5
Notes: E	ridges of Mov	wer County	/ - Combined. S	Structure replaced	with new Bridge 50806												ľ							
6	8929	1	I 90	5080-150	I 90 OVER DOBBINS CREEK	MOWER	1957	\$4,542,515	2009	YES	2010	RPL	18,800	N	N	N	31	0	CONC BOX CULV	HS 24.0	Υ	N	N	41.3
Notes: E	ridges of Mov	wer County	/ - Combined; F	Replaced with Culv	ert BR 50X30																			
6	9320	2	I 90	8580-149	I 90 OVER MISSISSIPPI RIVER (DRESBACH)	WINONA	1967	\$212,800,000	2012	YES	2016	RPL	26,000	5 (4)	6 (5)	6	2,490	175,894	CSTL DECK GIRD	HS 33.0	N	N	Υ	77.0 (66.0) (65.0)
Notes:	Border bridge	with Wisco	onsin. TPCE ir	ncludes Wisconsin	Share.																	<u> </u>		
6	85807	2	I 90	8580-157	I 90 WB OVER TWP 323	WINONA	1963	\$5,012,266	2009	YES	2009	RPL	10,600	4	4	6	119	5,045	PRESTR VD SLAB SPAN	HS 44.0	Υ	N	N	63.7
Notes: S	tructure repla	aced with n	ew Bridge 858	35			•															-		
6	85808	2	I 90	8580-157	I 90 EB OVER TWP 323	WINONA	1963	\$1,862,967	2010	YES	2010	RPL	10,600	4	4 (5)	6	119	5,045	PRESTR VD SLAB SPAN	HS 44.0	Υ	N	N	63.7
Notes: S	tructure repla	aced with n	ew Bridge 858	36																				
6	85809	2	I 90	8580-157	I 90 WB OVER TWP 312	WINONA	1963	\$1,680,872	2009	YES	2009	RPL	10,600	4	4	5	95	4,038	PRESTR VD SLAB SPAN	HS 46.0	Υ	N	N	61.6
Notes: S	tructure repla	aced with n	ew Bridge 858	37																				
6	85810	2	I 90	8580-157	I 90 EB OVER TWP 312	WINONA	1963	\$1,774,254	2010	YES	2010	RPL	10,600	4	4 (5)	5 (6)	95	4,038	PRESTR VD SLAB SPAN	HS 46.0	Υ	N	N	61.6
Notes: 8	tructure repla	aced with n	ew Bridge 858	38																				
6	4867	СР	Hwy. 105	5007-25	HWY. 105 OVER WOODBURY CREEK	MOWER	1931	\$1,994,952	2010	YES	2010	RPL	275	5	5	5	53	1420	STEEL BEAM SPAN	HS 18.4	N	N	N	53.6
					ty" (CP) project, due to bridge being load																			

Notes: Bridge included in Chapter 152 as a "Commissioner Priority" (CP) project, due to bridge being load posted. Structure replaced with new Bridge 50010

DISTRICT	BRIDGE NUMBER	CH 152 TIER	ROUTE NUMBER	STATE PROJECT #	FACILITY - FEATURE CROSSED	COUNTY	YEAR BUILT	TOTAL PROJECT COST ESTIMATE	PLANNED YEAR OF CONSTRUCTION	SUBSTANTIALLY COMPLETE	YEAR OF SUBSTANTIAL COMPLETION	CH 152 WORK PLANNED	ADT	(N DECK	S RAT	SUB	BRIDGE LENGTH	DECK AREA	MAIN SPAN TYPE	LOAD (OPERATING) RATING	STRUCTURALLY DEFICIENT	FUNCTIONALLY OBSOLETE	FRACTURE CRITICAL	SUFFICIENCY RATING
6	6975	2	Hwy. 250	2319-16	HWY. 250 OVER S BR ROOT RIVER	FILLMORE	1931	\$8,220,000	2016	NO	2016	RPL	840 (787)	7 (6)	7	6 (5) (6)	104	2,808	STEEL HIGH TRUSS	HS 17.0	N	Υ	Υ	57.5 (57.6) (47.1) (57.6)
Notes:	6977	Br 6977. 1	Hwy. 250	with new Bridge 23	HWY. 250 OVER N BR ROOT RIVER	FILLMORE	1924	SEE NOTE <sup>7</sup>	2016	NO	2016	RPL	380 (413)	7 (6)	6	6, (5), (6) (5)	144	3,456	STEEL HIGH TRUSS	HS 15.0 (HS 22.5)	N	Υ		50.6 (47.0) (65.1) (65.3)
Notes:	Cost included	with Br 697	75 project. To l	pe replaced with n	ew Bridge 23028.																			
7	6749	2	Hwy. 4	0801-31	HWY. 4 OVER LITTLE COTTONWOOD RIVER	BROWN	1951	\$2,324,929	2011	YES	2011	RPL	1,250 (1,400)	7	4	5	98	3,381	STEEL BEAM SPAN	HS 32.0 (HS 32.7)	Υ	N	N	66.4 (60.9)
Notes:	Structure repla	aced with n	ew Bridge 0800	06						•	-											-		
7	6762	3	Hwy. 4	8302-33	HWY. 4 OVER WATONWAN RIVER	WATONWAN	1951	\$2,972,439	2012	YES	2012	RPL	970 (880)	4	5	5	56	1,932	STEEL BEAM SPAN	HS 34.0 (HS 46.5)	Υ	N	N	82.6 (82.7)
Notes:	Structure repla	aced with n	ew Bridge 830	39																				
7	9200	1	Hwy. 14	0804-81	HWY. 14 OVER MINNESOTA RIVER	BROWN	1963	\$42,700,000	2018	NO	2019	RPL	8,600 (8,700)	5	6 (5)	4 (5)	566	20,107	PRESTR BEAM SPAN	HS 70.0 (HS 35.8)	Y (N)	N	N	38.0 (54.6)
Notes:	To be replace	d with new	Bridge 08016		1		I I								I									
7	4014	2	Hwy. 22	5205-31	HWY. 22 OVER ROBARTS CREEK	NICOLLET	1923	\$331,463	2013	YES	2013	RPL	1,200 (939)	N	N	N	23	0	CONC BOX CULV	HS 24.0	Υ	N	N	68.2
Notes:	Repaired with	custom ho	rse shoe liner																					
7	5834	2	Hwy. 30	1702-10	HWY. 30 OVER BR OF WATONWAN R	COTTONWOOD	1939	\$1,019,930	2011	YES	2011	RPL	740 (850)	4	5	5	32	1,072	STEEL BEAM SPAN	HS 30.0 (HS 30.6)	Υ	N	N	79.1 (74.5)
Notes:	Replaced with	new Culve	ert 17X01																	1				
7	5513	1	Hwy. 68	0710-30	HWY. 68 OVER UP RR	BLUE EARTH	1936	\$1,543,387	2013	YES	2013	RPL	3,150 (2,699)	4 (7)	3 (8)	5 (7)	115	4,497	CONC DECK GIRD	HS 30.6 (HS 21.9)	Υ	N	N	45.7 (34.8) (25.8)
7	6889	2	Hwy. 71	1705-11	HWY. 71 OVER DES MOINES RIVER	COTTONWOOD	1956	\$3,210,447	2010	YES	2010	RPL	2,350	4	4	4	143	4,919	STEEL BEAM SPAN	HS 48.0	Υ	N	N	58.2
Notes:	Replaced with	new Bridg	e 17008																					
7	6245	2	Hwy. 75	6704-19	HWY. 75 OVER POPLAR CREEK	ROCK	1932	\$853,080	2013	YES	2014	RPL	9,500 (6,900)	N	N	N	23	0	CONC BOX CULV	HS 24.0	Υ	N	N	52.8 (53.2)
Notes:	Structure repla	aced with n	ew Culvert 67X	03	<u>.                                    </u>		!! 						<u> </u>			!!								
7	4930	2	Hwy. 99	4008-25	HWY. 99 OVER MINNESOTA RIVER (ST. PETER)	LE SUEUR	1931	\$4,900,000	2016	NO	2017	REHAB	7,000 (5,077)	5	5 (4)	5 (6)	402	12,512	CSTL HIGH TRUSS	HS 23.6	N	N (Y) (N)	Υ	56.0 (48.5) (50.5)

Notes: Historic bridge. Project let in 2014, never awarded. Project letting in November 2016.

			R	STATE	FAC			TOTAL	PLA CC	SI	YEAR C	CH 152		(NBI	IS RAT	ING)	BF		Mβ	LO,	S	F	FRA	SUF
DISTRICT	BRIDGE NUMBER	CH 152 TIER	ROUTE NUMBER	ATE PROJECT #	FACILITY - FEATURE CROSSED	COUNTY	YEAR BUILT	L PROJECT COST ESTIMATE	PLANNED YEAR OF CONSTRUCTION	SUBSTANTIALLY COMPLETE	YEAR OF SUBSTANTIAL COMPLETION	WORK PLANNED	ADT	DECK	SUP	SUB	BRIDGE LENGTH	DECK AREA	MAIN SPAN TYPE	LOAD (OPERATING) RATING	STRUCTURALLY DEFICIENT	FUNCTIONALLY OBSOLETE	FRACTURE CRITICAL	SUFFICIENCY RATING
7	6535	2	Hwy. 258	0809-12	HWY. 258 OVER COTTONWOOD RIVER	BROWN	1949	\$3,381,311	2012	YES	2012	RPL	700 (470)	4	5	4	163	4,564	STEEL HIGH TRUSS	HS 22.7	Υ	N	Υ	45.2 (45.6)
Notes: R	eplaced with	new Bridg	e 08007							<u> </u>														
7	6821	2	Hwy. 270	6706-13	HWY. 270 OVER MUD CREEK	ROCK	1953	\$1,369,237	2011	YES	2011	RPL	740 (840)	4	5	5	38	1,251	STEEL BEAM SPAN	HS 29.1	N	N	N	78.6 (74.6)
Notes: R	eplaced with	new Culve	ert 67X02																					
8	9114	2	Hwy. 7	1201-32	HWY. 7 OVER CHIPPEWA RIVER	CHIPPEWA	1932	\$5,500,000	2014	YES	2014	RPL	1,850 (2,200)	5	5 (4)	5	182	5,951	STEEL HIGH TRUSS	HS 24.1 (HS 22.0)	N (Y)	N	Υ	63.7 (43.6) (43.8)
Notes: S	tructure repla	ced with n	ew Bridge 120	15	<u> </u>																			
8	4667	2	Hwy. 19		HWY. 19 ACCESS RD OVER SULPHER L	REDWOOD	1927				N/A	NOT ON TRUNK HIGHWAY	50 (5)	4	4 (3)	4 (3) (6)	122	3,416	STEEL HIGH TRUSS	HS 17.2	Υ	N	Υ	44.0 (33.0)
Notes: C	nly normal m	aintenance	e planned to m	aintain condition.	Hwy. 19 alignment has changed, bridge	no longer on trunk high	way.																	
8	5388	1	Hwy. 24	4711-20	HWY. 24 OVER N FK CROW RIVER	MEEKER	1935		2009	YES	2009	RPL	1,650	4	5	5	105	2,919	STEEL LOW TRUSS	HS 16.2	Υ	N	Υ	47.0
Notes: N	ew bridge in	place, Hist	oric Bridge mo	ved to Lake Louise	e State Park. Ch. 152 funds not used or	this project. Structure r	eplaced w	rith new Bridge 47006																
8	5380	2	Hwy. 40	1209-22	HWY. 40 OVER LAC QUI PARLE L	CHIPPEWA	1938	\$2,500,000	2019			RPL	610 (540)	4	4	5 (6)	221	6,284	STEEL HIGH TRUSS	HS 18.0	Υ	N	Υ	38.9 (39.3)
Notes: F	istoric bridge	. Bridge to	be replaced o	utside of Ch. 152 p	orogram.					T 1			T					T						
8	6962	2	Hwy. 68	6407-28	HWY. 68 OVER DITCH	REDWOOD	1900	\$400,525	2009	YES	2009	RPL	1,350	5	5	4	26	905	STEEL BEAM SPAN	HS 24.1	Υ	N	N	48.5
Notes: B	ridge replace	d with new	Culvert 64X09																					
8	87005	2	Hwy. 274		HWY. 274 OVER YELLOW MEDICINE RIVER	YELLOW MEDICINE	1968				N/A	Only Normal Maintenance Needed	920 (1,042)	8 (7)	8 (7)	5	187	8,186	PRESTR BEAM SPAN	HS 45.4	Y (N)	N	N	66.9 (83.0) (88.1)
Notes: N	o work neede	ed. Condit	ion ratings wer	e re-evaluated - br	idge no longer structurally deficient. On	ly using maintenance do	llars, not	capital funds.																
8	6816	2	Hwy. 277	1213-12	HWY. 277 OVER CO DITCH # 22	CHIPPEWA	1952	\$1,300,000	2017	NO	2017	RPL	310 (365)	6	6	4	29	1,015	STEEL BEAM SPAN	HS 30.3	Υ	N	N	67.9 (70.8)
Notes: T	be replaced	d with new	Culvert 12X02												•									!I
M	6654	1	Hwy. 5	1002-89	HWY. 5 OVER RECREATION TRAIL	CARVER	1952	\$9,010,101	2012	YES	2014	RPL	16,000 (19,200)	4	5	5	160	6,136	CONC DECK GIRD	HS 28.5	Υ	N	N	49.1
Notes: D		1 11	Bridge 10003																					

Notes: Bridge replaced with new Bridge 10003

			R	STATE	FAC			TOTAL	PLA CC	SI	YEAR C	CH 152		(NB	IS RAT	ING)	BF		Mβ	LO,	S	F	FRA	SUF
DISTRICT	BRIDGE NUMBER	CH 152 TIER	ROUTE NUMBER	ATE PROJECT #	FACILITY - FEATURE CROSSED	COUNTY	YEAR BUILT	L PROJECT COST ESTIMATE	PLANNED YEAR OF CONSTRUCTION	SUBSTANTIALLY COMPLETE	YEAR OF SUBSTANTIAL COMPLETION	WORK PLANNED	ADT	DECK	SUP	SUB	BRIDGE LENGTH	DECK AREA	MAIN SPAN TYPE	LOAD (OPERATING) RATING	STRUCTURALLY DEFICIENT	-UNCTIONALLY OBSOLETE	FRACTURE CRITICAL	SUFFICIENCY RATING
M	9300	2	Hwy. 5	6201-86	HWY. 5 WEST 7TH ST OVER MISSISSIPPI RIVER	RAMSEY	1961	\$12,127,500	2014	YES	2016	RDK	56,000 (28,500)	5 (4)	5 (4)(5) (4)	5	1,199	87,850	CSTL DECK GIRD	HS 37.0	N (Y)	N	Υ	67.0 (66.0) (64.0)
Notes: F	C bridge built	t in 1961, r	emodeled in 19	986. Historic bridg	e. Bridge will continue to function safely	with rehab project and	continued	maintenance.																
М	5462	2	Hwy. 7	2734-33	HWY. 7 (COUNTY ROAD 25) OVER HWY. 100	HENNEPIN	1939		2014	YES	2016	RPL	36,000	4	5	5	190	15,080	CONC DECK GIRD	HS 38.5	Υ	N	N	71.2
Notes: F	eplaced with	new Bridg	e 27305. Cost	included with Br. 5	598				Tr.	•	<b>1</b>		T-					<b>1</b>		<b>1</b>				
М	82010	2	Hwy. 105	8216-XX	HWY. 10 (PRESCOTT) OVER ST CROIX RIVER	WASHINGTON	1990	\$300,000	2018	NO		OL	13,500 (15,700)	6	7	6	684	35131	STEEL MOVEABLE	HS 50.0	N	N	Υ	61.9
Notes: E	uilt in 1986 (s	see endnot	te 1) and built v	vith a redundant sy	ystem for FC tie girder. Wisconsin leading	g the effort.																		
M	82815	2	Hwy. 35	8280-47	HWY 8 WB OVER I 35	WASHINGTON	1967	\$45,400,000	2018	NO		RPL	10,500	7 (5)	7 (6)	7 (6)	356	12,706	CSTL DECK GIRD	HS 26.6	N	N	Υ	75.9 (74.9)
Notes: F	C bridge built	t in 1967. ∣	Bridge to be re	placed with new B	ridge 82871. Total project cost listed tha	t includes 3 additional t	bridges an	d concrete paving on r	oadway.	ī			Ī	1	T .	1	1	ī	1	I	ī		1	1
M	4654	1	Hwy. 36	8221-01	HWY. 36 OVER ST CROIX RIVER	WASHINGTON	1930	\$361,739,213	2013	NO	2017	RPL	18,000	8 (7)	6 (4)(3) (4)	5 (6)	1,053	25,272	STEEL MOVEABLE	HS 20.0	Υ	N	Υ	32.8 (17.8) (2.8)
Notes: F	listoric bridge	. Truss wi	Il be converted	to pedestrian bride	ge. The new replacement bridge opened	to traffic in August 201	7.						ı											
М	5723	2	Hwy. 36	6212-148	HWY. 36 OVER LEXINGTON AVE(COUNTY ROAD 51)	RAMSEY	1938	\$16,100,000	2016	YES	2016	RPL	85,000	4	4	5	64	10,115	CONC RIGID FRAME	HS 55.0 (HS 40.0)	Y	N	N	61.0
Notes: 7	o be replaced	d with new	Bridge 62731.	1					1	1	1		I		1		1	ī	1	1	T		1	1
M	9115	1	Hwy. 36	8214-114	HWY. 36 EB OVER HWY. 95	WASHINGTON	1959	SEE NOTE <sup>8</sup>	2015	YES	2016	RPL	9,750	3 (6) (N)	3 (5) (N)	5 (N)	401	14,957	CONC BOX GIRD	HS 59.1	Y (N)	N (Y)	N	28.3 (66.8)
Notes: 0	osts incl w/ B	3r 4654 (St	. Croix River C	rossing) project. R	Replaced with new Bridge 82045.											_								
М	9800	1	Hwy. 52	6244-30	HWY. 52 (LAFAYETTE) OVER MISS R, RR & STREETS	RAMSEY	1968	\$213,913,984	2011	YES	2015	RPL	81,000	5 (4) (8)	4 (8)	(6) (8)	3,366	254,251	CSTL DECK GIRD	HS 31.7	Υ	N	Υ	49.5 (47.5) (50.3)
Notes: F	eplaced with	new Bridg	e 62017 and 6	2018																				
М	62026	2	Hwy. 52	6244-36	LAFAYETTE (HWY. 52) OVER UP RR & EATON ST	RAMSEY	1965	\$7,725,836	2011	YES	2012	RDK	74,000	6 (5) (7)	4 (5)	5 (7)	580	59,017	CSTL BEAM SPAN	HS 34.8 (HS 31.2)	Y	N	N	59.1 (56.9) (57.0) (58.2)
M	94277	2	Hwy. 55	2751-51	HWY. 55 OVER BASSETT CREEK	HENNEPIN	1939	\$2,026,276	2019			RPL	27,500 (20,500)	N	N	N	20	0	CONC BOX CULV	HS 18.0	Y (N)	N	N	36.9 (38.4) (55.1) (54.3)
		·			de of Ch. 152 program.																			

Notes: Planned to be replaced in 2019 with Blue Line LRT outside of Ch. 152 program.

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DISTRICT	BRIDGE NUMBER	CH 152 TIER	ROUTE NUMBER	STATE PROJECT#	FACILITY - FEATURE CROSSED	COUNTY	YEAR BUILT	TOTAL PROJECT COST ESTIMATE	PLANNED YEAR OF CONSTRUCTION	SUBSTANTIALLY COMPLETE	YEAR OF SUBSTANTIAL COMPLETION	CH 152 WORK PLANNED	ADT	DECK	SUP	SUB	BRIDGE LENGTH	DECK AREA	MAIN SPAN TYPE	LOAD (OPERATING) RATING	STRUCTURALLY DEFICIENT	FUNCTIONALLY OBSOLETE	FRACTURE CRITICAL	SUFFICIENCY RATING
М	5895	1	Hwy. 61	1913-64	HWY. 61 OVER MISS RIVER, RR, STREET (HASTINGS)	DAKOTA	1950	\$215,152,000	2010	YES	2013	RPL	32,500	5 (4)	4	5	1,857	74,292	CSTL HIGH TRUSS	HS 24.6 (HS 32.2)	Υ	N	Υ	38.1 (43.4) (41.1)
Notes: F	Replaced with	new Bridg	e 19004																					
M	6688	1	Hwy. 61	6222-160	HWY. 61 OVER BNSF RR	RAMSEY	1952	\$6,745,095	2010	YES	2010	RPL	24,500	4	4	5	180	11,934	CONC DECK GIRD	HS 38.1	Υ	N	N	42.3 (43.7)
Notes: F	Replaced with	new Bridg	e 62092													ī								
М	27046	2	Hwy. 77	2758-75	HWY. 77 SB COLL RD OVER KILLEBREW DRIVE	HENNEPIN	1988	\$823,068	2021			RE-OL	5,000	6	7 (6)	7	505	23,170	CSTL BEAM SPAN	HS 62.0	N	N	Υ	95.6 (96.6) (97.6)
Notes: F	C bridge built	It in 1988.	All NBIS condit	tion ratings are sat	isfactory to good. Overlay to be done aft	er 2018. See endnote	1.									1								
M	27048	2	Hwy. 77	2758-XX	HWY. 77 SB OFF RAMP OVER 81ST STREET	HENNEPIN	1988		2028-2034				3,450	7	7 (6)	7	526	24,170	CSTL BEAM SPAN	HS 94.0	N	N	Υ	94.7 (95.7)
Notes: F	C bridge built	lt in 1988.	All NBIS condit	tion ratings are goo	od. Normal maintenance planned for the	program years. Paint	and overla	y will be needed beyor	nd 2018. See e	ndnote 1.	T-					_	•			ī.			1	
М	27052C	2	Hwy. 77	2758-XX	HWY. 77 NB COLL RD OVER 79TH ST & EB 494/5 RAMPS	HENNEPIN	1989		2028-2034				10,000	7	7	7	603	25,253	CSTL BEAM SPAN	HS 46.0	N	N	Υ	96.2 (97.2)
Notes: F	C bridge built	lt in 1989.	All NBIS condit	tion ratings are goo	od. Normal maintenance planned for the	program years. Paint	and overla	y will be needed beyor	nd 2018. See e	ndnote 1.														
М	9600N	2	Hwy. 77	1925-52	HWY. 77 NB OVER MINNESOTA R & BLACK DOG	HENNEPIN	1978	\$2,140,000	2014	YES	2015	Paint	47,000	6	6	7 (6)	5,159	308,514	STEEL TIED ARCH	HS 34.0 (HS 35.6)	N	N	Υ	91.5
Notes: F	C bridge built	lt in 1978.	All NBIS condit	tion ratings are sat	isfactory to good. See endnote 1.											-								
М	9600S	2	Hwy. 77	1925-52	HWY. 77 SB OVER MINNESOTA R & BLACK DOG	HENNEPIN	1978	SEE NOTE <sup>9</sup>	2014	YES	2015	Paint	47,000	6	6	7 (6)	5,185	310,045	STEEL TIED ARCH	HS 34.0 (HS 35.6)	N	N	Υ	91.5
Notes: F	C bridge built	lt in 1978	All NBIS condit	tion ratings are sat	isfactory to good. See endnote 1. (Cost	ncl w Br 9600N)			-	-	-	=				-								-
М	27728	2	I 94	2781-452	I 94 NB ON RAMP OVER GLENWOOD AVE & RR	HENNEPIN	1978	\$1,700,000	2017	NO	2017	RE-OL	7,100	6 (5)	6	6 (5)	1,475	64,614	CSTL BEAM SPAN	HS 42.5	N	N	Υ	98.5 (99.5) (98.5) (87.4)
Notes: F	C bridge built	lt in 1978.	All NBIS condit	tion ratings are sat	isfactory. Surface repairs to be done in 2	2017. Redeck to be do	ne after 20	18. See endnote 1.																
M	27842	2	l 94	2782-327	I 94 WB ON RAMP OVER I 94 & HWY. 65	HENNEPIN	1966	\$313,600,000	2018	NO		RPL	20,000	4 (5) (4)	4 (5) (4)	6	534	13,566	CCONC BOX GIRD	HS 36.0 (HS 28.0)	Υ	N	N	64.8 (64.4)
Notes: E	Bridge to be re	eplaced wit	h I35W Transit	Project. Cost refle	ects total project cost. To be replaced w	ith new Bridge 27W07.																		
М	27861	2	l 94	2781-27861	I 94 WB OFF RAMP OVER CP RAIL & CITY ST	HENNEPIN	1968	\$930,936	2010	YES	2010	RDK	11,000	4 (8) (7)	5 (6)	4 (7)	268	6,888	CSTL BEAM SPAN	HS 31.6	Υ	N	N	65.0
Notes: E	Economic stim	nulus (ARR	A) funding use	ed to advance proje	ect																			
М	27726B	2	I 94	2781-452	I 94 SB OFF RAMP OVER LYNDALE AVE N & RR	HENNEPIN	1979	\$1,700,000	2017	NO	2017	RE-OL	10,900	6	6	7	1,100	28,919	CSTL BEAM SPAN	HS 44.0	N	Υ	Υ	93.3 (94.3)
Natara 5	-0.1 . 1 . 11	1070	All NIDIO		tisfactory to good. Surface repairs and u	16 11 1		L <u>.</u>	<u> </u>								I .							

Notes: FC bridge built in 1979. All NBIS condition ratings are satisfactory to good. Surface repairs and ultrathin wearing course to be done in 2017. Redeck to be done after 2018. See endnote 1.

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			R	STATE	FAC			TOTAL	PLA CC	SI	YEAR C	CH 152		(NBI	S RAT	ING)	BF		MΑ	LO	S	F	FRA	SUF
DISTRICT	BRIDGE NUMBER	CH 152 TIER	ROUTE NUMBER	NTE PROJECT #	FACILITY - FEATURE CROSSED	COUNTY	YEAR BUILT	L PROJECT COST ESTIMATE	PLANNED YEAR OF CONSTRUCTION	SUBSTANTIALLY COMPLETE	R OF SUBSTANTIAL COMPLETION	WORK PLANNED	ADT	DECK	SUP	SUB	BRIDGE LENGTH	DECK AREA	MAIN SPAN TYPE	LOAD (OPERATING) RATING	STRUCTURALLY DEFICIENT	FUNCTIONALLY OBSOLETE	FRACTURE CRITICAL	SUFFICIENCY RATING
М	27727B	2	I 94	2781-452	I 94 SB ON RAMP OVER GLENWOOD AVE & RR'S	HENNEPIN	1978	\$1,700,000	2017	NO	2017	RE-OL	8,000	6	6 (5)	6 (5)	1,896	54,542	PRESTR BEAM SPAN	HS 40.0 (HS 33.8)	N	Y (N)	Υ	94.4 (95.4) (86.3)
Notes: F	C bridge built	t in 1978.	All NBIS condi	tion ratings are sat	tisfactory. Surface repairs and ultrathin	wearing course to be do	one in 201	7. Redeck to be done	after 2018. Se	e endnote 1.			1								1		1	
M	27799R	2	l 94	2781-452	I 94 EB ON RAMP OVER LYNDALE AVENUE SB	HENNEPIN	1969		2028-2034			RDK	25,400	6	7 (6)	7	784	29,470	CSTL BEAM SPAN	HS 42.0 (HS 41.0)	N	N	Υ	85.8
Notes: F	C bridge built	t in 1989, r	emodeled in 19	987. NBIS condition	on ratings are satisfactory. Epoxy chip s	eal to be done in 2017.	Paint and	re-deck will be neede	d beyond 2018.															
M	5598	2	Hwy. 100	2734-33	MINNETONKA BLVD OVER HWY. 100	HENNEPIN	1939	\$83,884,993	2014	YES	2015	RPL	19,100	4	4	5	164	12,794	CONC DECK GIRD	HS 40.1 (HS 40.2)	Υ	N	N	63.0
Notes: 0	ost incl w/ Br	r 5462 proje	ect. Replaced v	with new Bridge 27	306.																			
М	27789	2	Hwy. 100	NA	HWY. 100 SB CD OVER SB CD RP & FRNT RD	HENNEPIN	1989		2019-2027			RE-OL	2,000	6	6	7 (6)	967	38,228	CSTL BEAM SPAN	HS 70.0 (HS 31.0)	N	N	Υ	90.0 (91.0)
Notes: F	C bridge built	t in 1989. <i>i</i>	All NBIS condit	ion ratings are fair	to good. Normal maintenance planned	for the program years.	Paint and	overlay will be needed	beyond 2018.	See endnote	e 1.													
М	27791	2	Hwy. 100	NA	HWY. 100 SB ON RAMP OVER GLENWOOD AVE TO SB 100	HENNEPIN	1989		2028-2034			RE-OL	2,000	7	7 (6)	7	495	13,910	CSTL BEAM SPAN	HS 55.0	N	N	Υ	97.0 (98.0)
Notes: F	C bridge built	t in 1989. <i>i</i>	All NBIS condit	ion ratings are goo	od. Normal maintenance planned for the	e program years. Paint	and overla	y will be needed beyon	nd 2018. See e	endnote 1.														
M	62090	2	Hwy. 149	6223-20	HWY. 149 (SMITH AVE) OVER MISSISSIPPI R & RAILROAD	RAMSEY	1986	\$15,210,915	2018	NO		RDK	18,000 (14,000)	6 (5)	7 (6)	7	2,770	150,395	CSTL TIED ARCH	HS 42.0	N	N	Υ	85.1 (91.1) (90.7)
Notes: E	uilt in 1986 (s	see endnot	te 1) and built v	vith a redundant sy	stem for FC tie girder. High bridge. Pro	ject costs reflect actual	constructi	on bid amount.																
М	6347	2	Hwy. 243	1311-6347A	HWY. 243 (OSCEOLA) OVER ST CROIX RIVER	CHISAGO	1953	\$909,311	2010	YES	2010	OL & PT	7,600 (6,985)	7 (6) (5)	6	7 (6)	674	23,051	STEEL DECK TRUSS	HS 19.5 (HS 26.2)	N	N	Υ	65.6 (72.4)
Notes: E	order bridge	with Wisco	nsin. Replace	ment planned in 20	022-2027 timeframe.																			
M	6630	1	Hwy. 280	6241-87	HENNEPIN AVENUE OVER MT RAIL	RAMSEY	1954	\$2,122,057	2009	YES	2009	RPL	16,000	4	4	5	97	6,388	CONC SLAB SPAN	HS 26.6	Υ	N	N	36.8
Notes: F	eplaced with	new Bridg	e 62049																					
M	6738	1	Hwy. 280	6241-87	LARPENTEUR(COUNTY ROAD30) OVER HWY. 280	RAMSEY	1954	\$2,526,258	2009	YES	2009	RPL	13,500	4	4	4	150	10,259	CONC DECK GIRD	HS 41.0	Υ	N	N	49.0
Notes: 0	ost incl w/ Br	r 6630 proje	ect; Replaced v	vith new Bridge 62	048																			
М	27753	2	I 394		I 394R RAMP OVER NB HWY. 100 TO 394 HOV EB	HENNEPIN	1989		2028-2034			RE-OL	7,600	7	7 (6)	7	520	13,572	CSTL BEAM SPAN	HS 48.0	N	N	Υ	97.0 (98.0)
Notes: F	C bridge built	t in 1988. <i>i</i>	All NBIS condit	ion ratings are goo	od or satisfactory. Normal maintenance	planned for the program	m years. P	aint and overlay will be	e needed beyor	nd 2018. See	e endnote 1.													
М	27788	2	l 394		I 394 EB ON RAMP OVER HWY. 100 NB ON RAMP	HENNEPIN	1989		2028-2034			RE-OL	4,500	7	7 (6)	7	289	7,590	CSTL BEAM SPAN	HS 56.0 (HS 93 1.2)	N	N (Y)	Υ	94.0 (95.0) (36.0)
									_				_											
Notes: F	C bridge built	t in 1988. <i>i</i>	All NBIS condit	ion ratings are goo	od or satisfactory. Normal maintenance	planned for the progran	n years. P	aint and overlay will be	e needed beyor	nd 2018. See	e endnote 1.													
Notes: F	C bridge built 27753A	t in 1988. <i>i</i>	All NBIS condit	ion ratings are goo	I 394R RAMP OVER 394 HOV WB TO NB HWY. 100	planned for the progran	n years. P	aint and overlay will be	2028-2034	nd 2018. See	e endnote 1.	RE-OL	3,800	7	7 (6)	7	360	9,404	CSTL BEAM SPAN	HS 48.0	N	N	Υ	97.0 (98.0)

Notes: FC bridge built in 1988. All NBIS condition ratings are good or satisfactory. Normal maintenance planned for the program years. Paint and overlay will be needed beyond 2018. See endnote 1.

DISTRICT	BRIDGE NUMBER	CH 152 TIER	ROUTE NUMBER	STATE PROJECT #	FACILITY - FEATURE CROSSED	COUNTY	YEAR BUILT	TOTAL PROJECT COST ESTIMATE	PLANNED YEAR OF CONSTRUCTION	SUBSTANTIALLY COMPLETE	YEAR OF SUBSTANTIAL COMPLETION	CH 152 WORK PLANNED	ADT	(N) DECK	S RAT	ING) SUB	BRIDGE LENGTH	DECK AREA	MAIN SPAN TYPE	LOAD (OPERATING) RATING	STRUCTURALLY DEFICIENT	FUNCTIONALLY OBSOLETE	FRACTURE CRITICAL	SUFFICIENCY RATING
M	27776A	2	I 394		I 394R OVER I 394 WB, DUNWOODY BLVD	HENNEPIN	1987		2028-2034			RE-OL	7,600	7	7 (6)	7	2,738	154,403	CSTL BEAM SPAN	HS 43.0	N	N	Υ	93.8 (94.8)
Notes: F	C bridge built	t in 1988. A	All NBIS condit	ion ratings are goo	od or satisfactory. Normal maintenance	planned for the program	n years. P	aint and overlay will be	needed beyon	d 2018. See	endnote 1.													
М	27776B	2	l 394		I 394R EB OVER I 394 & DOWNTOWN RAMPS	HENNEPIN	1987		2028-2034			RE-OL	2,175	7	7 (6)	7	538	25,078	CSTL BEAM SPAN	HS 43.0	N	N	Y	94.7 (95.7)
Notes: F	C bridge built	t in 1988. <i>I</i>	All NBIS condit	ion ratings are goo	od or satisfactory. Normal maintenance	planned for the progran	n years. P	aint and overlay will be	needed beyon	d 2018. See	e endnote 1.													
M	27789A	2	I 394		I 394 EB OFF RAMP OVER SB HWY. 100	HENNEPIN	1989		2019-2027			RE-OL	6,000	7	7 (6)	7 (6)	162	1,877	CSTL BEAM SPAN	HS 70.0 (HS 31.0)	N	N	Υ	99.0 (100.0)
Notes: F	C bridge built	t in 1988. <i>I</i>	All NBIS condit	ion ratings are goo	od or satisfactory. Normal maintenance	planned for the progran	n years. P	aint and overlay will be	needed beyon	d 2018. See	e endnote 1.													
M	9197	2	I 694	6280-304	I 694 WB OVER BNSF RR	RAMSEY	1960		2007	YES	2009	RPL w/ Unweave / Weave Proj.	51,500	4	6	5	123	9,211	PRESTR BEAM SPAN	HS 57.0	Υ	N	N	71.0
Notes: F	PL w/ Unwea	ve/Weave	Project. Repla	aced with new Brid	ge 62904.																			
М	82805	3	I 694	8286-64	I 694 SB OVER UP RR	WASHINGTON	1967		2010	YES	2010	RDK	35,000 (36,500)	4 (8)	6 (7)	7 (6)	145	6,257	CSTL BEAM SPAN	HS 41.9	Y (N)	N	N	95.0 (98.0)
Notes: I	er 3 Bridge -	cost not in	cluded in Chap	oter 152 Program.	Economic stimulus (ARRA) funding use	d.				Г														
М	82806	3	1 694	8286-64	I 694 NB OVER UP RR	WASHINGTON	1967		2010	YES	2010	RDK	35,000 (36,500)	4 (7)	6 (7)	5 (6)	145	6,257	CSTL BEAM SPAN	HS 41.9 (HS 30.6)	Y (N)	N	N	84.0 (93.7) (96.7)
Notes: I	er 3 Bridge -	cost not in	cluded in Chap	oter 152 Program.	Economic stimulus (ARRA) funding use	d.																		
M	6513	2	I 35E	6280-353	MARYLAND (COUNTY ROAD 31) OVER I 35E	RAMSEY	1958	\$14,546,185	2012	YES	2012	RPL	22,500 (27,900)	4	5	5	199	19,930	STEEL BEAM SPAN	HS 32.0 (HS 48.0)	Υ	N	N	77.0
Notes: I	Replaced with	new Bridg	e 62626																					
M	6515	1	I 35E	6280-308	I 35E OVER CAYUGA ST & BNSF RR	RAMSEY	1965	\$161,980,647	2014	YES	2016	RPL	148,000	5	4	4	1,285	120,185	CSTL BEAM SPAN	HS 29.0	Y	N	N	40.8
Notes: F	eplaced by n	ew Bridge	62924 and 629	25.																				
М	6517	2	135E	6280-308	I 35E OVER BNSF RR	RAMSEY	1963		2014	YES	2015	RPL	148000 (149,000)	4	4	4	298	34,992	CSTL BEAM SPAN	HS 31.3 (HS 30.6)	Y	N	N	53.0 (51.8)
Notes: C	ost incl w/ Br	6515 (Cay	uga) project. F	eplaced with new	Bridge 62920																			
М	9265	2	I 35E	6280-308	I 35E OVER PENNSYLVANIA AVE	RAMSEY	1964		2014	YES	2015	RPL	144,000 (154,000)	4	4	4	165	19,166	STEEL BEAM SPAN	HS 44.0	Υ	N	N	64.0

Notes: Cost incl w/ Br 6515 (Cayuga) project. Replaced with 62918

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DISTRICT	BRIDGE NUMBER	CH 152 TIER	ROUTE NUMBER	STATE PROJECT#	FACILITY - FEATURE CROSSED	COUNTY	YEAR BUILT	TOTAL PROJECT COST ESTIMATE	PLANNED YEAR OF CONSTRUCTION	SUBSTANTIALLY COMPLETE	YEAR OF SUBSTANTIAL COMPLETION	52 WORK PLANNED	ADT	DECK	SUP	SUB	BRIDGE LENGTH	DECK AREA	MAIN SPAN TYPE	LOAD (OPERATING) RATING	STRUCTURALLY DEFICIENT	FUNCTIONALLY OBSOLETE	FRACTURE CRITICAL	SUFFICIENCY RATING
M	9053	1	I 35W	2782-320	W 94TH ST OVER I 35W	HENNEPIN	1957	\$8,900,627	2014	YES	2014	RDK	12,800 (11,000)	5 (8)	4 (7)(6)	6 (7)	199	12,815	PRESTR BEAM SPAN	HS 53.8 (HS 31.9)	Y	N	N	48.7 (49.1)
Notes: F	listoric bridge 9570	2	I 35W	6284-163	COUNTY ROAD E2 (COUNTY ROAD 73) OVER I 35W	RAMSEY	1964	\$13,617,140	2016	YES	2016	RPL	5,700 (10,100)	7	4	5	214	8,284	PRESTR BEAM SPAN	HS 55.0 (HS 39.3)	Y	N	N	52.0
Notes: F	eplaced with	new Bridge	e 62873																					
М	9796	1	I 35W	2782-288	W 76TH ST OVER I 35W	HENNEPIN	1959		2008	YES	2009	RPL	23,800	4	4	7	187	12,037	CSTL BEAM SPAN	HS 49.3	Y	N	N	44.5
Notes: F	eplaced with	new Bridge	e 27V98																					
М	27871	1	1 35W	2782-327	I 35W SB OVER HWY. 65 NB	HENNEPIN	1967	\$26,509,477	2017	NO		RPL	48,500	5	5	4	363	12,973	CCONC BOX GIRD	HS 67.0	Y	N	N	44.1
Notes: 7	he structure v	will be repla	aced with new	Bridge 27W05. C	ost included with Br. 27842.																			
M	27930	2	I 35W	2782-281	HWY. 121 NB OVER I 35W SB	HENNEPIN	1964		2007	YES	2009	RPL	6,000	4	5	6	307	10,254	CSTL BEAM SPAN	HS 31.5	Y	N	N	62.4
Notes: F	eplaced with	new Bridge	e 27V65							•														
М	27932	1	I 35W	2782-281	HWY. 62 EB OVER I 35W	HENNEPIN	1964		2007	YES	2009	RPL w/ Crosstown Project	50,000	4	4	6	376	12,558	CCONC BOX GIRD	HS 36.0	Y	N	N	37.0
Notes: F	eplaced with	New Bridg	e 27V68																					
М	27937	2	I 35W	2782-281	HWY. 62 WB OVER I 35W NB	HENNEPIN	1964		2007	YES	2009	RPL w/ Crosstown Project	49,000	4	4	6	224	5,720	CCONC BOX GIRD	HS 38.5	Υ	N	N	55.4
Notes: F	eplaced with	New Bridg	e 27V76		1								1											
М	27938	2	I 35W	2782-281	35W SB TO EB HWY. 62 OVER I 35 NB	HENNEPIN	1964		2007	YES	2009	RPL w/ Crosstown Project	22,750	4	4	7	290	7,382	CCONC BOX GIRD	HS 45.2	Υ	N	N	64.2
Notes: F	eplaced with	New Bridg	e 27V79																					
M	27939	2	1 35W	2782-281	I 35W SB OVER E 60TH ST	HENNEPIN	1963		2007	YES	2009	RPL w/ Crosstown Project	85,000	4	4	7	127	7,786	CSTL BEAM SPAN	HS 33.7	Y	N	N	58.1
Notes: F	eplaced with	New Bridg	e 27V81																					
М	27940	2	I 35W	2782-281	I 35W NB OVER E 60TH ST	HENNEPIN	1963		2007	YES	2009	RPL w/ Crosstown Project	85,000	4	4	7	127	7,786	CSTL BEAM SPAN	HS 33.7	Y	N	N	58.1
Notes: S	tructure repla	aced with n	ew Bridge 27V	81 under Cross-to	wn project																	·		

DISTRICT	BRIDGE NUMBER	CH 152 TIER	ROUTE NUMBER	STATE PROJECT#	FACILITY - FEATURE CROSSED	COUNTY	YEAR BUILT	TOTAL PROJECT COST ESTIMATE	PLANNED YEAR OF CONSTRUCTION	SUBSTANTIALLY COMPLETE	YEAR OF SUBSTANTIAL COMPLETION	CH 152 WORK PLANNED	ADT	(N) DECK	S RAT SUP	SUB SUB	BRIDGE LENGTH	DECK AREA	MAIN SPAN TYPE	LOAD (OPERATING) RATING	STRUCTURALLY DEFICIENT	FUNCTIONALLY OBSOLETE	FRACTURE CRITICAL	SUFFICIENCY RATING
M	27941	2	I 35W	2782-281	35W SB TO HWY. 62 EB OVER HWY. 62 WB	HENNEPIN	1964		2007	YES	2009	RPL w/ Crosstown Project	22,750	4	4	5	244	6,212	CCONC BOX GIRD	HS 62.1	Y	N	N	64.2
М	62853	2	1 35W	79 under Cross-to	I35W RAMP TO HWY. 36 EB OVER HWY. 280 NB	RAMSEY	1970		2019-2027			RPL	10,000	6	6	6	294	12,777	CSTL BEAM SPAN	HS 37.0	N	N	Υ	97.3
M M	27776C	2	All NBIS condi	tion ratings are god	od. Normal maintenance planned for the I 394R WB OVER I 394 WB ON RAMP	HENNEPIN	and overla	y will be needed beyo	2028-2034	endnote 1.		RE-OL	2,175	7	7 (6)	7	626	32,446	CSTL BEAM SPAN	HS 43.0	N	N	Υ	95.7 (96.7)
Notes:	C bridge buil	lt in 1989.	All NBIS condit	tion ratings are goo	od. Normal maintenance planned for the	e program years. Paint	and overla	ay will be needed beyo	nd 2018. See	endnote 1.														
M	27776F	2	l 394		394R EB RAMP OVER I 94 EB (ST. PAUL)	HENNEPIN	1987		2028-2034			RE-OL	1,087	7	7 (6)	7	1,200	31,403	CSTL BEAM SPAN	HS 43.0	N	N	Υ	95.8 (96.8)

Notes: FC bridge built in 1989. All NBIS condition ratings are good. Normal maintenance planned for the program years. Paint and overlay will be needed beyond 2018. See endnote 1.

**Endnote 1:** Newer bridges were designed and fabricated with improved details for resistance to fatigue. Steel specifications in the mid-1970's required steel "toughness" properties that provide resistance to fatigue. A Fracture Control Plan published in 1978 by AASHTO was also utilized to fabricate bridges using improved welding techniques for assembly. Purple cells denote that the bridge has been replaced by a new structure and the values in parantesis are updated information based on newer inspections.