## **APPENDIX F**

Floodplain Assessment

## FLOODPLAIN ASSESSMENT SP 2506-83 (TH 52)

The proposed project involves reconstructing approximately 13 miles of pavement on southbound TH 52 Cannon Falls to Zumbrota, as well as the replacement of southbound Bridge 9414 over the North Fork Zumbro River. The replacement of the bridge will involve the full demolition of the superstructure and substructure, and replacement of the abutments piers and decking. The project also includes resurfacing of the northbound bridge adjacent to 9414.

The National Flood Insurance Program Flood Insurance Rate Maps (FIRMs) for Pine County, Minnesota, have been examined for this project. The following FIRMs contain the project area:

Goodhue County, Minnesota and Incorporated Areas, Map Number 27049C0285E, September 25, 2009 Goodhue County, Minnesota and Incorporated Areas, Map Number 27049C0295E, September 25, 2009 Goodhue County, Minnesota and Incorporated Areas, Map Number 27049C0320E, September 25, 2009 Goodhue County, Minnesota and Incorporated Areas, Map Number 27049C0325E, September 25, 2009 Goodhue County, Minnesota and Incorporated Areas, Map Number 27049C0510E, September 25, 2009 Goodhue County, Minnesota and Incorporated Areas, Map Number 27049C0510E, September 25, 2009 Goodhue County, Minnesota and Incorporated Areas, Map Number 27049C0510E, September 25, 2009 Goodhue County, Minnesota and Incorporated Areas, Map Number 27049C0530E, September 25, 2009 Goodhue County, Minnesota and Incorporated Areas, Map Number 27049C0530E, September 25, 2009 Goodhue County, Minnesota and Incorporated Areas, Map Number 27049C0537E, September 25, 2009 Goodhue County, Minnesota and Incorporated Areas, Map Number 27049C0537E, September 25, 2009 Goodhue County, Minnesota and Incorporated Areas, Map Number 27049C0537E, September 25, 2009 Goodhue County, Minnesota and Incorporated Areas, Map Number 27049C0541E, September 25, 2009 Goodhue County, Minnesota and Incorporated Areas, Map Number 27049C0545E, September 25, 2009

The project will encroach upon the Zumbro River's floodplain. The table below and attached maps describe and show the encroachment.

FLOODPLAIN ENCROACHMENT			
Floodplain	Type of Encroachment	Length, ft	
Zumbro River	Transverse	40	
Belle Creek	None	Not applicable	
Butler Creek	None	Not applicable	

See Floodplain Maps attached.

## FLOODPLAIN IMPACT ANALYSIS

This project will not result in any significant floodplain impacts for the following reasons:

- 1. There is no significant potential for interruption of a transportation facility which is needed for emergency vehicles or provides a community's only evacuation route.
  - a. The roadway grade is above the 100-year flood elevation. The 100-year flood elevation upstream (west) of the North Fork Zumbro River Bridge is 983.23. The low point elevation of the roadway located approximately 3000 feet southeast of the North Fork Zumbro River Bridge is 987.14.
  - b. Traffic will be maintained during construction. The bridge improvements will be constructed separately allowing emergency vehicles to pass through the work area.

- 2. There is no significant impact on natural and beneficial floodplain values.
  - a. Impacts:

	Beneficial Impacts	Adverse Impacts
	The proposed reduction of total	
	spans will remove a pier from	Temporary impacts to the
Fisheries	prime thalweg habitat.	channel during construction
Wetlands	None	Minor wetland encroachment
	Native seed mixtures will be	
Plants	used	None
	Native seed mixtures will be	
Open Space/Aesthetics	used	None
Public Access		
(boat/canoe)	Not applicable	Not applicable
	The reduction from 2 piers to	
	one will remove an obstruction	
Channel Changes	from the channel.	None
	The reduction from 2 piers to	
	one will remove an obstruction	
Boat Passage	from the channel.	Not applicable
	A wildlife passage bench will be	
	incorporated into the design of	
Threatened/Endangered	the riprap being placed along the	
Species	banks and under the bridge	None
	Appropriate turf establishment	
	and erosion control measures	Minor increase in impervious
Water Quality	will be used	surface

b. Minimization/Mitigation Measures:

The DNR's Natural Heritage Database Review was queried by the DNR to determine if any rare plant or animal species, native plant communities, or other significant natural features are known to occur within an approximate one-mile radius of the project area. There were rare features identified in the query. State-listed threatened mussel species were documented both upstream and downstream of the project. MnDOT will contract with the DNR to conduct a mussel survey for in 2020. The Corps of Engineers will review the project for federal Endangered or Threatened species as part of the permitting process.

The northern long-eared bat is federally listed as threatened and state listed as special concern found in the area and throughout Minnesota. There is evidence of bats in the northbound TH 52 bridge over the North Fork Zumbro River, so there is potential that bats are present in the southbound TH 52 bridge over the North Fork Zumbro River as well. MnDOT will inspect the bridges in 2020 and provide minimization measures as appropropriate.

Migratory birds have been noted to nest on the bridge. The project may temporarily impact these species, but no long-term adverse impacts are expected. Nets will be placed on the bridge by MnDOT prior to the start of the project to prevent migratory birds from nesting. The contractor will be responsible for preventing birds from nesting during the project.

Work in the water will take place outside the period of March 1 through June 1 to allow for undisturbed fish migration and spawning. During the restriction period, all exposed soil areas that are within 200 feet of the water's edge and drain to these waters, will have erosion prevention stabilization activities initiated immediately after soil disturbing activity has ceased, be completed within 24 hours, and maintained for the duration.

A passage bench will be included in the North Fork Zumbro River bridge. There is crash data that suggests a higher number of deer are located in the area. Modifying this crossing to assure animal passage under the bridges would help with both ecological connectivity and road safety.

Appropriate turf establishment and erosion control measures will be used. A SWPPP will be developed in accordance with the requirements of the NPDES Construction Storm Water Permit. The SWPPP will serve as a guiding document to the contractor for minimizing the amount of erosion and sediment loss on the project. Specific erosion and sediment control measures will consist of rock construction entrances to minimize tracking of sediments off site; culvert end controls and storm drain inlet protection; perimeter control such as silt fence, sediment control logs, and riprap installed down gradient of all construction areas prior to any soil disturbance; and hydraulic soil stabilizers, mulch, temporary plastic sheeting, and natural netting erosion control blankets applied over all temporary and permanently seeded areas. Use of erosion control blankets shall be limited to these 'natural netting' types to reduce the risk of entanglement with small animals. Areas of revegetation that are not proposed for mowed turf grass will consist of native seeding.

- 3. There is no significant increased risk of flooding.
  - a. A detailed hydraulic analysis was performed for the river crossing. The hydraulic analysis shows no stage increase from the in-place condition. A copy of the Waterway Analysis is attached.
  - b. Special hydraulic features consist of random riprap places along the abutments for scour protection.
- 4. The project will not support and/or result in incompatible floodplain development. Reason(s) why project will not cause incompatible floodplain development:
  - a. This project is an improvement to existing infrastructure; therefore, no new access will be provided to floodplain areas
  - b. Goodhue County has zoning regulations that control floodplain development.

## TRANSVERSE ENCROACHMENT

The project includes replacement of the southbound bridge over the North Fork Zumbro River. The proposed Bridge will reduce the current number of spans from 3 (68 feet each) to 2 (104 feet each). This will necessitate construction in the floodplain beneath the bridge. The overall result will be a reduction of fill in the floodplain and a reduction in flood elevations.

## COORDINATION

Permits are required from the Minnesota Department of Natural Resources (MnDNR) and the United States Army Corps of Engineers for public water and wetland impacts. An NPDES General Construction Stormwater Permit will be required from the MPCA.

## **CONCLUDING STATEMENT**

Based on the above assessment, no significant floodplain impacts are expected.

## ATTACHMENTS

-- FIRM Maps -- Hydraulic Letter -- Risk Assessment SP 2506-83 TH 52 Floodplain Assessment August 2020

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainaige sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or flood/ways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stilwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0 North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report or this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplan management purposes when they are higher than the elevations altown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Universal Transverse Marcator (UTM) zone 15. The horizontal datum was NAD83, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight postional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1986, visit the National Geodetic Survey which all following address:

NGS Information Services NOAA, NINGS12 National Geodetic Survey SSMC- 3, #9202 1315 East- West Highway Silver Spring, MD 20910- 3282

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on the FIRM was provided by the Goodhue County GIS Department. This information was derived from digital orthophotos meeting National Mapping Accuracy Standards from photography dated October 2003.

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Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-600-365-9620 and its verbale at http://www.msc/fema.gov/

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call - 877- FEMA MAP (1- 877- 338- 2627 or visit the FEMA website at http://www.fema.gov/.



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	Zone D boundary CBRS and OPA boundary			
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This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (IBFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summay of Stillwaiter Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-toot dewaltons. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIRM report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0 North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report or this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplan management purposes when they are higher than the elevations athown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Universal Transverse Mercator (UTM) zone 15. The horizontal datum was NAD83, GRS 1980, spheroid. Differences in datum, spheroid projection or UTM zones used in the production of FiRMs for adjacent jurisdictions may result in stight postional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1529 and the North American Vertical Datum of 1986, viait the National Geodetic Survey at the advection program agrow or contact the National Geodetic Survey at the following address:

NGS Information Services NOAA, NINGS12 National Geodetic Survey SSMC- 3, #9202 1315 East- West Highway Silver Spring, MD 20910- 3282

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the information Services Branch of the National Geodefic Survey at (301) 713-3242, or visit its website at http://www.ngs.nosa.gov/.

Base map information shown on the FIRM was provided by the Goodhue County GIS Department. This information was derived from digital orthophotos meeting National Mapping Accuracy Standards from photography dated October 2003.

This map reflects more detailed and up to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the FAcod Profiles and Ficodway Data tables at the Ficod Profiles at the Ficod Profiles and Ficodway Data tables at the Ficod Profiles at the Ficod Profiles

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Fibod Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-359-9620 and its verbeste at http://www.mscfema.gov/

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call - 877 - FEMA MAP (1- 877 - 336 - 2627 or visit the FEMA website at http://www.fema.gov/.



LECEND				
SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO				
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kapt met or enclosofilient so that the 1% annual chance nood can be carried without substantial increases in flood heights.				
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flood.	EAC			
ZONE X Areas deter	inted to be outside the 0.2% annual chance floodolain.			
ZONE D Areas in wh	ich flood hazards are undetermined, but possible.			
COASTAL	BARRIER RESOURCES SYSTEM (CBRS) AREAS			
OTHERWI	SE PROTECTED AREAS (OPAs)			
CBRS areas and OPAs are	normally located within or adjacent to Special Flood Hazard Areas.			
	1% annual chance floodplain boundary 0.2% annual chance floodplain boundary			
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	Base Flood Elevations, flood depths or flood velocities. Base Flood Elevation ine and value: elevation in fault*			
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This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (IBFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary OS illiwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM fergreent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.07 North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Sillivater Elevations table in the Flood Insurance Study report or this jurisdicon. Elevations shown in the Summary of Sillivater Elevations table should be used for construction and/or flood/plan management purposes when they are higher than the elevations and/or flood/plan management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this puried/cline.

The projection used in the preparation of this map was Universal Transverse Mercator (UTM) zone 15. The horizontal datum was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight postional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1529 and the North American Vertical Datum of 1986, with the National Geodetic Survey at the following address.

NGS Information Services NOAA, NINGS12 National Geodetic Survey SSMC- 3, #9202 1316 East- West Highway Silver Spring, MD 20910- 3282

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the information Services tranch of the National Geodelic Survey at (301) 713-3242, or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on the FIRM was provided by the Goodhue County GIS Department. This information was derived from digital orthophotos meeting National Mapping Accuracy Standards from photography dated October 2003.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which confains authoritarive hydraukic data may reflect stream channel distincts that differ from what is shown on this may reflect stream channel distincts.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Filod insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-385 9820 and its verbalis at http://www.mosfema.gov/

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please cal1-877-FEMA MAP(1-877-336-2627 or visit the FEMA website at http://www.fema.gov/.



LEGEND					
SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD					
The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Heast Area is the area subject to flooding by the 1% annual chance flood. Areas					
of Special Flood Elevat	Flood Hazard in flood Hazard in ion is the water-sur	ear subject to modeling by the 1% annual chance hood. Areas clude Zones A, AE, AH, AO, AR, A99, V and VE. The Base face elevation of the 1% annual chance flood.			
ZONE A ZONE AE	No Base Flood Base Flood Elev	Elevations determined. vations determined.			
ZONE AH	Flood depths Elevations deb	of 1 to 3 feet (usually areas of ponding); Base Flood ermined.			
ZONE AD	Flood depths average depth also determine	of 1 to 3 feet (usually sheet flow on sloping terrain); is determined. For areas of alluvial fan flooding, velocities d. Harard Area formatik gestected from the 18 second			
LOTE AR	special Piood Haard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood. Area to be protected from 1% annual charve flood has a function				
ZONE A99	B Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Bewattons determined Bewattons determined Bewattons determined				
ZONE VE	Costail flood sone with velocity hazard (wave action); no Base Flood Elevations determined. Costail flood sone with velocity hazard (usew action); Base Flood Elevations determined.				
Will.	FLOODWAY AREAS IN ZONE AE				
The floodw kept free o	The Roodway is the channel of a stream plus any adjacent Roodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in Rood healths.				
substantial increases in flood heights.					
ZONE X	OTHER FLOOD AREAS Areas of 0.2% ennual chance flood; areas of 1% ennual chance flood with average depths of less than 1 foot or with drahage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.				
	OTHER ARE	AS			
ZONE X	Areas determin	ned to be outside the 0.2% annual chance floodplain. h flood hazards are undetermined, but nomible			
01110	COASTAL B	ARRIER RESOURCES SYSTEM (CBRS) AREAS			
2010	OTHERWIS	PROTECTED AREAS (OPAs)			
CBRS areas	and OPAs are no	rmaily located within or adjacent to Special Flood Hazard Areas.			
		1% annual chance floodplain boundary 0.2% annual chance floodplain boundary			
		Hoodway boundary Zone D boundary			
	+	Laks and OPA boundary Boundary dividing Special Road Hazard Areas of different Base Road Elevations, flood deaths or flood valorities			
	513~~~~	Base Flood Elevation line and value; elevation in feet*			
(EI	L 987)	Base Rood Elevation value where uniform within zone; elevation in feet*			
* Reference	d to the North Ame	rican Vertical Datum of 1988 (NAVD 88) Cross section line			
@		Transect line			
9710730	", 32"22'30"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)			
~27	5 <sup>000m</sup> N	1000-meter Universal Transverse Mercator grid ticks, zone 15			
6000	1000 FT	suru-root grid ticks: Minnesola State Plane coordinate system, south zone (FIPSZONE 2203), Lambert Conformal Conic Banch mark (see application to Materia Terrare			
DX	5510 <sub>×</sub>	Bench mark (see explanation in Notes to Users section of this FIRM panel)			
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This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFE) and/or flood/ways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summay of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Sillivater Elevations table in the Flood Insurance Sillivater Elevations table should be used for construction and/or flood/arin management purposes when they are higher than the elevations arbown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Universal Transverse Mercator (UTM) zone 15. The horizontal datum was NAD83, GRS1980, spheroid. Differences in datum, spheroid projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1968. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1989, visit the National Geodetic Survey at the following address.

NGS Information Services NOAA, NINGS12 National Geodetic Survey SSMC-3, #9202 1315 East- West Highway Silver Spring, MD 20910-3282

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on the FIRM was provided by the Goodhue County GIS Department. This information was derived from digital orthophotos meeting National Mapping Accuracy Standards from photography dated October 2003.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraucic data may reflect stream channel distincts that differ from what is able who on this may.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or d-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map paretic community map repository addresses; and a Listing of Communities table containing National Flock Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Fibod insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fast at 1-800-365 e020 and its website at http://www.mscfema.gov/

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1.877**-FEMA MAP (1-877-336-2627 or visit the FEMA website at http://www.fema.gov/.



1 FOFUE					
LEGEND					
	SPECIAL FL	OOD HAZARD AREAS (SFHAS) SUBJECT TO N BY THE 1% ANNUAL CHANCE FLOOD			
The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that bas a 1% chance of being equilable or exceeded in any oliven year. The Special					
Flood Hazan	d Area is the are	seing equated or exceeded in any given year. The Special sa subject to flooding by the 1% annual chance flood. Areas Auto Zener A AE AH AO AP APA V and VE The Resp.			
Flood Elevatio	on is the water-surf	ace elevation of the 1% annual chance flood.			
ZONE A ZONE AE	No Base Flood E Base Flood Elev	levations determined. ations determined.			
ZONE AH	Flood depths Elevations dete	of 1 to 3 feet (usually areas of ponding); Base Flood mined.			
ZONE AO	Flood depths	of 1 to 3 feet (usually sheet flow on sloping terrain);			
	average depths also determined	s determined. For areas of alluvial fan flooding, velocities			
ZONE AR	Special Flood chance flood	Hazard Area formerly protected from the 1% annual by a flood control system that was subsequently			
	decentified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.				
greater flood. ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations					
flood protection system under construction; no Base Flood Elevations determined.					
ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.					
Elevations determined. ZONEVE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.					
000000	ZONE VE Coastal flood zone with velocity hazard (wave action); Base Rood Elevations determined.				
The floodam	is the channel	AREAD IN ZONE AE			
kept free of substantial k	encroachment so ncreases in floor	that the 1% annual chance flood can be carried without			
00000	OTHER ELOC	D APEAS			
ZONE X	Areas of 0.25	6 annual chance flood: areas of 156 annual chance flood			
	with average of 1 square mile	lepths of less than 1 foot or with drainage areas less than and areas protected by levees from 1% annual charce			
	flood.				
	OTHER AREA	8			
ZONE X	Areas determin	ed to be outside the 0.2% annual chance floodplain.			
ZONED	Areas in which	nood nazards are undetermined, but possible.			
011112	COASTAL B	ARRIER RESOURCES SYSTEM (CBRS) AREAS			
2222	OTHERWISE	PROTECTED AREAS (OPAs)			
CBRS areas	and OPAs are nor	maily located within or adjacent to Special Flood Hazard Areas.			
		1% annual chance floodplain boundary 0.2% annual chance floodplain boundary			
		Floodway boundary Zme D boundary			
		CBRS and OPA boundary			
COLUMN TWO IS	-	Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.			
51	13	Base Flood Elevation line and value; elevation in feet*			
(EL	987)	Base Flood Elevation value where uniform within zone;			
* Referenced	to the North Amer	conversion in 1985* ican Vertical Datum of 1988 (NAVD 88)			
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<sup>10</sup> 75	<sup>ooom</sup> N	1000-meter Universal Transverse Mercator and ticks, zone 15			
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This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (IFEE) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summay of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance raing purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0 North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwate Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or flood/ain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 'Flood Protection Measures' of the Flood Insurance Study report for information on flood control structures for this juriseicion.

The projection used in the preparation of this map was Universal Transverse Mercator (UTM) zone 15. The horizontal datum was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FiRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1029 and the North American Vertical Datum of 1989, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address.

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC- 3, #9202 1315 East- West Highway Silver Spring, MD 20910- 3282

To obtain ourrent elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on the FIRM was provided by the Goodhue County GIS Department. This information was derived from digital orthophotos meeting National Mapping Accuracy Standards from photography dated October 2003.

This map reflects more detailed and up to date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a Study report livitic contains authoritative livitation (and the previous first may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panets; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change. a Flood insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-350-9620 and its verbisit at http://www.mscfema.gov/

If you have questions about this map or questions concerning the Nationa Flood Insurance Program in general, please call - 877 - FEMA MAP(1-877-336-2627 or visit the FEMA website at http://www.fema.gov/.



LEGEND				
SPECIAL FLOOD HAZARD AREAS (SFHAS) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD				
INUNDATION BY THE 1% ANNUAL CHANCE FLOOD The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being avoided or expendent in any chan year. The Structure				
that has a Flood Hazar of Special	1% chance of b rd Area is the are Flood Hazard inc	eing equaled or exceeded in any given year. The Special a subject to flooding by the 1% annual chance flood. Areas lude Zones A, AE, AH, AO, AR, A99, V and VE. The Base as advantion of the 1% annual chances flood		
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ZONE AE	Base Flood Eleve Flood depths	stions determined. of 1 to 3 feet (usually areas of ponding); Base Flood		
ZONE AO	Elevations deter Flood depths average depths also determined	rmined. of 1 to 3 feet (usually sheet flow on sloping terrain); determined. For areas of alluvial fan flooding, velocities		
ZONE AR	AR Special Road Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently described. <i>Size AR</i> inclusions that the former flood control system is being realized to provide protection from the 3% annual chance or greater flood.			
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The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encoechiment so that the 1% annual chance flood can be carried without substantial increases in flood heights.				
Substantial increases in field heights.				
ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood; X Areas of 0.2% annual chance flood; areas of 1% annual chance flood is square mile; and areas protected by levees from 1% annual chance flood.				
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P707773	OTHERMOST	DROTECTED ADEAS (ODA)		
CBRS areas	oTHERWISE and OPAs are nor	PROTECTED AREAS (OPAs) mally located within or adjacent to Special Flood Hazard Areas.		
		1% annual chance floodplain boundary 0.2% annual chance floodplain boundary		
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5	13~~~~	Base Flood Elevations, flood depths or flood velocities. Base Flood Elevation line and value; elevation in feet*		
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(A)	@	Cross section line		
97'07'30	. 32"22"30"	Geographic coordinates referenced to the North American Detum of 1983 (NAD 83)		
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To obtain more detailed information in areas where **Base** Flood Elevations (IFFE) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot devations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

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Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1986, visit the National Geodetic Survey which all following address:

NGS Information Services NOAA, NINGS12 National Geodetic Survey SSMC- 3, #9202 1315 East- West Highway Silver Spring, MD 20910- 3282

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at http://www.ngs.noaa.gov/.

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Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax et 1-800-358-0620 and its website at http://www.mscfema.gou/

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA MAP (1-877-336-2627 or visit the FEMA website at http://www.fema.gov/.

Numbered cross sections shown on this panel were created in association with a limited Detailed Study and contain no floodway computations.



JOINS PANEL 0540

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that has a The	INUNDATION BY THE 1% ANNUAL CHANCE FLOOD The 1% annual chance flood (100-war flood), also known as the base flood, is the flood				
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NGS Information Services NOAA, NINGS12 National Geodetic Survey SSMC-3, #9202 1315 East- West Highway Silver Spring, MD 20910-3282

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If you have **questions about this map** or questions concerning the National Flood insurance Program in general; please call **1**• 877 - FEMA MAP(1- 877 - 336 - 2627) or visit the FEMA website at http://www.fema.gov/.



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FLOODWAY AREAS IN ZONE AE					
The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substraining learnance. In flood backs					
substantial increases in flood heights.					
TO DE	OTHER FLOOD AREAS				
ZONE X Area	s of 0.2%	annual chance flood; areas of 1% annual chance flood			
with I s	average de quare mile;	and areas protected by levees from 1% annual chance			
flood	1	92 IL			
<u>т</u> о т	HER AREAS	5			
ZONE X Area	is determined	d to be outside the 0.2% annual chance floodplain.			
ZONE D Area	is in which	flood hazards are undetermined, but possible.			
CON CON	ASTAL BAI	RRIER RESOURCES SYSTEM (CBRS) AREAS			
0.0000000000000000000000000000000000000		5) Å			
TO [2223]	HERWISE	PROTECTED AREAS (OPAs)			
CBRS areas and OF	PAs are norm	hally located within or adjacent to Special Flood Hazard Areas.			
	1	% annual chance floodplain boundary 2% annual chance floodplain boundary			
	F	loodway boundary			
	2	tone D boundary			
		and any UPA councery			
	B	lase Flood Elevations, flood depths or flood velocities.			
~~~~ 513~~	~~ B	lase Flood Elevation line and value; elevation in feet*			
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* Referenced to the I	e North America	an Vertical Datum of 1988 (NAVD 88)			
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This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or flood/ways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stilwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0° North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurication. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplan management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Universal Transverse Mercator (UTM) zone 15. The horizontal datum was NAD83, GRS 1980 spheroid. Differences in datum, spheroid projection or UTM zones used in the production of FiRMs for adjacent jurisdictions may result in stipht postional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1986, visit the National Geodetic Survey which all following address:

NGS Information Services NOAA, NINGS12 National Geodetic Survey SSMC- 3, #9202 1315 East- West Highway Silver Spring, MD 20910- 3282

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the information Services Branch of the National Geodelic Survey at (301) 713-3242, or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on the FIRM was provided by the Goodhue County GIS Department. This information was derived from digital orthophotos meeting National Mapping Accuracy Standards from photography dated October 2003.

This map reflects more detailed and up to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The Bootplains and floodways that were transferred from the previous FIRM may have been adjusted to conflorm to these new stream channel configurations. As a result, the Food Profiles and Floodway Data tables in the Fixed insurance Sci. Configuration of the stream channel distances that differ from what is shown on this may reflect stream

Corporate limits shown on this map are based on the best data available at the time of publication. Bacause changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fixs at 1-800-350-9620 and its verbals at http://www.msc/fama.gov/

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call - 877- FEMA MAP (1- 877- 338- 2627 or visit the FEMA website at http://www.fema.gov/.



LEGEND				
SPECIA	LEGEND FLOOD HAZARD AREAS (SFHAS) SUBJECT TO			
INUNDATION BY THE 1% ANNUAL CHANCE FLOOD The 1% annual chance flood (100-year flood), also known as the base flood, is the flood				
that has a 1% chance Flood Hazard Area is t of Special Flood Haza Flood Elevation is the wat	of being equaled or exceeded in any given year. The Special e area subject to flooding by the 1% annual chance flood. Areas d include Zones A, AE, AH, AQ, AR, AB9, V and VE. The Base er-surface elevation of the 1% annual chance flood.			
ZONE A No Base I	lood Elevations determined.			
ZONE AH Flood of Flood of	epths of 1 to 3 feet (usually areas of ponding); Base Flood determined.			
ZONE AO Flood d average also dete	ectonimes. epths of 1 to 3 feet (usually sheet flow on sloping tarrain); signths determined. For areas of altuvial fan flooding, velocities mined.			
ZONE AR Special chance decertifie being ne preater 1	EAR Special Road Heard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently descrifted. Zoler AR Hoclasts that the former flood control system to being reasoned to provide protection from the 1% annual chance or greater flood.			
greater flood. ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Bereitions determined. ZONE V Coatal flood pone with velocity hazard (waxe action) no Base Exod				
ZONE V Coastal flood zone with velocity hazard (wave action); no Base Food Elevations determined. ZONE VE Coastal flood zone with velocity hazard (wave action); Rase Flood Elevations determined.				
Elevation stemmined. FLOODWAY AREAS IN ZONE AE				
FLOODWAY AREAS IN ZONE AE The floodway is the channel of a stream plus any adjacent floodplain areas that must be least free of encreachment so that the 1% annual chance flood can be carried without substantial moreas in flood heights.				
substantial increases in flood heights.				
ZONE X Areas of 12% annual chance flood; areas of 1% annual chance flood there are a set of 1% annual chance flood; areas of 1% annual chance flood there are a set of the set				
OTHER	AREAS			
ZONE X Areas de	remined to be outside the 0.2% annual chance floodplain.			
ZONE D Areas in	which flood hazards are undetermined, but possible.			
COAST	L BARRIER RESOURCES SYSTEM (CBRS) AREAS			
OTHER	VISE PROTECTED AREAS (OPAs)			
CBRS areas and OPAs	re normally located within or adjacent to Special Flood Hazard Areas.			
<u>.</u>	2.56 annual chance floodplain boundary     D.256 annual chance floodplain boundary     Dedition be added.			
	- Zone D boundary			
	CBRS and OPA boundary 4-Boundary dividing Special Flood Hazard Areas of different.			
	Base Flood Elevations, flood depths or flood velocities.			
(EL 987)	Base Flood Elevation value where uniform within zone:			
* Referenced to the North	elevation in feet* American Vertical Datum of 1988 (NAVD 88)			
A (A	Cross section line			
@······@	Transect line			
97"07"30", 32"22"30"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)			
<sup>42</sup> 75 <sup>000</sup> "N	1000-meter Universal Transverse Mercator grid ticks, zone 15			
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system, south zone (FIPSZONE 2203), Lambert Conformal Conic				
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444 Cedar Street, Suite 1500 Saint Paul, MN 55101 651.292.4400 tkda.com

# S.P. 2506-83 Southbound TH 52 Reconstruction Bridge No. 9414 Replacement

То:	Jai Kalsy, MnDOT	Reference:	TH 52 Project SB Station 990+50
	Kris Langlie, MnDOT		Bridge over the North Fork Zumbro
	Solomon Woldeamlak, MnDOT	_	River
Copies To:	Matthew Wassman	Project No.:	16421.010
	Mark Daubenberger	_	
From:	Christopher Helland	Routing:	
Date:	August 13, 2020		

This memorandum summarizes the hydraulic analysis of the proposed replacement of the southbound Trunk Highway 52 bridge over the North Fork Zumbro River in Zumbrota, MN. The existing bridge (Bridge No. 9414) is a three-span prestressed concrete beam structure located in Section 23 Township 110N Range 16W. The bridge is located approximately 1,300 feet northwest of the intersection of TH 52 and 165<sup>th</sup> Avenue and approximately three river miles upstream of the town of Zumbrota. Although the bridge is located in FEMA Zone A (unstudied), the adjacent upstream and downstream areas are located in FEMA Zone AE. The DNR provided a model containing the Zone A reach that included Bridge No. 9414. This HEC-RAS 5.0.6 model was considered the *effective model*. A *corrected effective/existing conditions* model was created to update the low chord of the existing bridge from 986.00 to 983.90 as shown on the 1961 existing bridge plans (adjusted from NGVD29 to NAVD88). The existing corrected low chord elevation does not meet DNR navigational clearance.

The proposed bridge geometry was incorporated into the *corrected effective model* to create the *proposed conditions* model. The proposed two span bridge geometry reduces the number of piers and extends the total bridge length four feet to the north to allow for a DNR requested habitat bench. The proposed bridge does not meet DNR navigational clearance requirements but does increase navigational clearance compared to existing conditions and raises the low chord elevation (984.26). The removal of a pier will improve navigability and fish passage at the main stem channel, and the overall increase in flow area results in no adverse increase in flood elevations.

Provided Design Flows			
Design Storm Event	North Fork Zumbro River Flow (cfs)		
10-year	5540		
25-year	7420		
50-year	8860		
100-year	10400		
100-year+	13312		
500-year	14300		

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	Hydraulic Data TH 52 over the North Fork Zumbro River		
	Vertical Datum	NAVD 88	
*	Stream Name	Zumbro River	
	Drainage area	142.6	mi <sup>2</sup>
	Flood of record	Unknown	ft³/s
	Maximum observed high-water elevation	Unknown	ft
*	Design and basic flood (100-year frequency)	10,400	ft³/s
(1)	Road sag point elevation	979.55	ft
(2)	Stage	982.69	ft
	Total Stage increase	0.54	ft
* (3)	Headwater elevation	983.23	ft
(3)	Headwater elevation of in-place condition	983.23	ft
	Stage increase of in-place condition	0.54	ft
(4)	Minimum waterway opening	1849	ft <sup>2</sup>
(5)	Low member at or above elevation	984.26	ft
(6)	Mean velocity	5.62	ft/s
*	Greatest Flood (500-year frequency)	14,300	ft³/s
(2)	Stage	984.63	ft
	Total Stage increase	0.63	ft
* (3)	Headwater elevation	985.26	ft
(3)	Headwater elevation of in-place condition	985.24	ft
	Stage increase of in-place condition	0.61	ft
(6)	Mean velocity	5.35	ft/s
	Approximate Flowline Elevation	971.06	ft
	Skew	none	
	Riprap Size	Class IV	

\*Items to be shown on grading plan

(1) Approximate low point highway centerline 1 mile southeast.

(2) Elevation downstream at HEC-RAS cross section 30437.6

(3) Elevation upstream at HEC-RAS cross section 30501.55U

(4) Cross sectional area of HEC-RAS cross section 30501.55U

(5) Proposed bridge low member elevation (upstream) at HEC-RAS cross section 30501.55U

(6) Proposed velocity at HEC-RAS cross section 30501.55U

## **RISK ASSESSMENT FOR ENCROACHMENT DESIGN**

	Date: 8/13/2020		
District: 6 County: Goodhue V	icinity of: _ Zumbrota		
DATA REQUIREMENTS			
1. Location of Crossing: TH 52 C.S.	<u>990+70</u> <b>M.P.</b> 80.850		
<b>Sec.</b> 23 <b>T</b> 110 N	<b>R</b> 16 W		
2. Name of Stream: North Fork Zumbro River	Bridge No. Old:9414 New:N/A		
<b>3.</b> Current ADT: 20,550 (2018)	Projected ADT: 26,500 (2041)		
4. Practicable detour available Ves	No		
If no is checked, please explain: Not applicable			
If there is no practicable detour available, then the use of emergency vehicle access, emergency supply and evacuat routes should be studied. Factors to consider for this and frequency of inundation if appropriate, and available funding	the road must be analyzed. Considerations such as ion route, and the need for school bus, milk and mail alysis include design frequency, depth, duration, and		
5. Hydraulic Data: (Fill in as appropriate)	Hydraulic Data: (Fill in as appropriate)		
Elevation Datum: <u>NAVD 88</u>			
$Q_2 = $ cfs $HW_2$	Elevation ft		
$Q_5 = \ cts = HW_5$	Elevation ft		
$Q_{10} = 5,540$ CIS $HW_{10}$	Elevation 980.38 IL		
$Q_{25} = \frac{7,420}{1000}$ CIS HW25	Elevation $982.40$ ft		
$Q_{100} = 10400$ cfs HW100	Elevation 983.23 ft		
$Q_{500} = 14,300$ cfs HW <sub>500</sub>	Elevation 985.26 ft		
Approximate Flowline Flowation: 071.06 Et			
Design Frequency Event: ▼ 100-yr 50-yr	25-yr 10-yr		
Reasons for selecting Design Frequency: MnDOT Dra 100-year wh crossing is a over the 50-	inage Manual states design frequency for bridges shall be the en the overtopping flood is above the 100 year state. The lso a MnDNR Public Water which requires 3 feet for freeboard year storm.		
6. Magnitude and Frequency of the smaller of "Overto	pping" or "500 yr." (Greatest) flood: <u>10,400+ cfs, 100-year+</u>		
7. Low member elevation: 984.26			
8. Minimum roadway overflow elevation if appropria	te: _ 983.25 (165 <sup>th</sup> Ave South, 2,200 feet south)		
9. Elevation of high risk property, i.e. residences:	985.50, residence 1,700 feet south		

10.	Horizontal location of overflow: low p	ooint TH 52 SB Sta. 1038+50
	[ At Structure (See 12)	🔽 Not At Structure:

11.	1. Type of proposed structure(s):		
	🔽 Bridge (See 12)	Culvert(s)	

12 If the proposed structure is a bridge with the sag point located on the bridge and there is ice and debris potential, strong consideration should be given to using  $Q_{50}$  as design discharge with 3' of clearance between the 50 year tailwater stage and low member.

1.	BACI cente	<b>WATER DAMAGE</b> - Major floc rs, hospitals, chemical plants, pow	LTEC Design	
	1a.	Is the overtopping flood greater th ✓ Yes (Go to 1b)	nan the 100 yr. flood? to 1e)	
	1b.	Is the overtopping flood greater th Yes (Go to 1d)	nan the "greatest" flood (500 yr. Frequency)? Go to 1c)	
	1c.	Is there major flood damage pote <b>▼</b> No (Go to 1e)	ntial for the overtopping flood?	Yes (Go to 1e)
	1d.	Is there major flood damage pote ₩ No (Go to 1e)	ntial for the greatest flood (500 year frequency)?	Yes (Go to 1e)
	1e.	Will there be flood damage pote 100 yr. flood?	ential to residence(s) or other buildings during a	
			50 10 2)	
	1f.	Could this flood damage occur ev	ren if the roadway crossing wasn't there? Go to 1h)	
	1g.	Could this flood damage be sigr the proposed crossing?	nificantly increased by the backwater caused by	
		Yes (Go to 1h)	Go to 2)	
	1h.	Could the stream crossing be de potential flood damage?	signed in such a manner so as to minimize this	
		🦳 Yes (Go to 1i) 📃 No (G	Go to 2)	
	1i.	Does the value of the building(s) further evaluation of risk and pote	and/or its contents have sufficient value to justify ential flood damage?	
		[] NO (GO tO 2)		Yes (Go to 2)
2.	TRAF	FIC RELATED LOSSES		
	22	Is the overtanning flood greater th	an the "greatest" flood (500 vr. frequency)?	
	24.	Yes (Go to 3)	Go to 2b)	

2c.	Would the (duration minus the length of n Yes (Go to 2d)	of road closure in days) multiplied by the (length of detour normal route in miles) exceed 20? No (Go to 3)	
2d.	Does the annual risk costs?	cost for traffic related costs exceed 10% of the annual capital	
	🔽 No (Go to 3)	(See figures A and B – Appendix A(2) - for Assistance)	Tes (Go to 3)

3.	ROAI	DWAY AND/OR STRUCTURE REPAIR COSTS	
	3a.	Is the overtopping flood less than a 100 year frequency flood? Yes (Go to 3b) No (Go to 3i)	
	3b.	Compare the Tailwater (TW) elevation with the roadway sag point elevation for the overtopping flood. Check the appropriate category.	
		TW is between 0 and 0.5' below sag point (Go to 3c)	
		TW is between 0.5' and 1.0' below sag point (Go to 3d)	
		🔚 When TW is 1.0' and 2.0' below sag point (Go to 3e)	
		When TW is more than 2.0' below sag point (Go to 3g)	
	3c.	Does the embankment have a good erosion resistant vegetative cover? Yes (Go to 3i) No (Go to 3d)	
	3d.	Is the shoulder constructed from erosion resistant material such as paved, coarse gravel, or clay type soil?	
	3e.	Will the duration of overtopping for the 25-year flood exceed 1 hour?Yes (Go to 3f)No (Go to 3i)	
	3f.	Is the embankment constructed from erosion resistant material such as a clay type soil?	
		☐ Yes (Go to 3i) ☐ No (Go to 3g)	
	3g.	Is the overtopping flood less than a 25-year frequency flood? Yes (Go to 3h) I No (Go to 3i)	
	3h.	Will the cost of protecting the roadway and/or embankment from severe damage caused by overtopping exceed the cost of providing additional culvert or bridge capacity?	
		No (Go to 3i);	[ Yes (Go to 3i)
	3i.	Is there damage potential to the structure caused by scour, ice, debris or other means during the lesser of the overtopping flood or the 100 year flood? Yes (Go to 3j) IV (Go to 4)	
	3j.	Will the cost of protecting the structure from damage exceed the cost of providing additional culvert or bridge water capacity? ☑ No (Go to 4); protecting abutments from scour by riprap.	Yes (Go to 4)

	<b>No (Go to 5)</b> ;	Ves (Go to 5)
5.	In your opinion, are there any other factors that you feel should require further study through a risk analysis?	
	✓ No (Go to 6);	🔝 Yes (Indicate)

6. If there are no √'s in the LTEC Design column on the right, proceed with the design, selecting the lowest acceptable grade line and the smallest waterway opening consistent with the constraints imposed on the project. The risk assessment has demonstrated that potential flood damage costs, traffic related costs, roadway and/or structure repair costs are minor and therefore disregarded for this project.

One or more  $\checkmark$ 's in the LTEC Design column indicates further analysis in the category checked may be required utilizing the LTEC design process or justification (below) why it is not required.

**JUSTIFICATION**: The bridge provides 2.5 feet of freeboard over the 100 year flood at the deck, this is in an area where TH 52 is at a running grade. "Overtopping" occurs ½ mile to the SE, not at the bridge and would still likely occur if the bridge were not there. The proposed replacement will reduce piers in the thalweg, improve aquatic passage, and will not cause an increase in flood elevations.

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota:

Signature:	1.7			
	Christopher M. Helland			
License Number:		55693	Date:	August 13, 2020