



# Bridge Inspection Report

**150100AA0188001**  
**PATTERSON STREET**  
**over**  
**MEDINA RIVER**



**Inspection Date:** 11/02/2023

**Inspected By:** Joshua Davis

**Inspection Type(s):** Underwater



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## Bridge Inspection Follow-Up Action

## Bridge Inspection Follow-Up Action

### Initial Finding Information

FUA ID 693932

#### Location Information

Bridge ID# 150100AA0188001      Latitude 29.79387561      Longitude -99.24857822      County 010-BANDERA      Location 0.2 MILE SOUTH OF S.H. 16

Facility Carried PATTERSON STREET      Feature Crossed MEDINA RIVER

#### Ownership/Responsibility

District      Area Office      Maintenance Section      Control - Section AA01 - 88

System Designation 2      Bridge Owner Bandera County      Precinct

#### Maintenance Information

Inspection Date 11/03/2023      Rec Type Level 1      Previously Recommended? Y      Critical Finding? Y

Bridge Component Substructure      Repair Category Other - Substructure

Other: Up to 60% undermining of spread footings

#### Description of Issue and Recommendation

The 24-month UW inspection performed on 11/3/2023 discovered that spread footings at Bents 2, 3, and 4 from the NE are undermined approximately 5%, 33%, and 60%, respectively. See sketch. This has increased from the previous inspection. Item 113 - Scour will be changed to "1" for major observed scour. This coding dictates that Item 60 - Substructure, also be coded "1".

\*\*\*\* Due to depth and extend of undermining, plus the witnessing of the use of the bridge by heavy equipment (concrete truck) this bridge should be closed until repaired. \*\*\*\*

11/8/2023 - Based on further discussion with SAT, this bridge serves land-locked homes and would be an extreme imposition to close it. In lieu of closing, until repaired, the SAT Bridge Office will monitor the bridge monthly for settlement. This monitoring will be documented in AssetWise. Additionally, the load posting is to be lowered to 5000 LBS Axle or Tandem. R12-2bT. MWWallace

#### District Bridge Office Comments

11-6-23 Jaime Castañeda, P.E. (BIC): This morning, we reached out to Bandera County (County Judge Richard Evans, office 830-796-3781) to relay the current condition/recommendation for the bridge. He referred us to Mr. Deeter Werner, County Engineer, phone 830-796-3175. We emailed Mr. Werner additional information (sketch of the scour, examples of similar bridge issues in other counties that were repaired recently (including photos of how the repair work was done and also cost estimates with contractor information) so that he and his team could create their Plan of Action and that we would call him back to follow up. At approximately 2:15 P.M., we re-called Mr. Werner. We communicated to him an immediate way to check for bridge settlement: independent of the bridge, having a stake at either end of the bridge with a string attached, then measuring from the line to the top of rail to get a baseline measurement. Then going back on a frequent schedule to re-take measurements. If any changes, that would be proof of bridge settlement. Mr. Werner says that he will work with the Judge and Precinct 3 Commissioner Jack Moseley (mobile, 830-522-1500) to have a Plan of Action to us by tomorrow morning. Please let me know if you will need additional information.

11-7-23 Jaime Castañeda, P.E. (BIC): I contacted Mr. Werner and he referred me to John Andrade (Bandera County Road and Bridge Superintendent, office 830-796-4524, mobile 830-460-1426). I verified with Mr. Andrade that he is the lead for this bridge repair effort. I let him know that BRG Division has recommended bridge closure because of undermining and that our Consultant observed a concrete truck go over the bridge.

Below are the updates from Mr. Andrade:

1. There is no bypass, right now, if the bridge is closed.
2. In the past a ranch owner has offered to bypass through his property. Mr. Andrade will reach out to him to see if that offers still stands. If it does, the next step would be to see if the proposed bypass route is viable and if prep work is needed.
3. There was a County effort in the past to repair/replace the bridge but the issue was there was no bypass.
4. Mr. Andrade will work with Bandera County Judge Richard Evans to see if they can restrict traffic further.
5. I also suggested monitoring for settlement.
6. I emailed Mr. Andrade the sketch of the scour, examples of similar bridge issues in other counties that were repaired recently (including photos of how the repair work was done and also cost estimates with contractor information) (email attached).

I will reach out to Mr. Andrade again on tomorrow for his updates.

On Wednesday afternoon, 11-8-23, I ordered the new load posting signs (5000 LBS Axle or Tandem. R12-2bT) (see attached emails)

On yesterday morning, 11-9-23, I met with John Andrade (Bandera County Road and Bridge Superintendent, office 830-796-4524, mobile 830-460-1426) at the Patterson Street Bridge. I let him know that we need a repair soon and that I would be contacting him weekly to get updates and he agreed.

John's original plan to get approval for a bypass through private property was denied by the property owner. He will check with other landowners as well for a bypass.

Using waders, I was able to probe underneath the shallow footings to get a better idea of the undermining. We also set up a string line to get a baseline for possible bridge settlement. We plan to do monthly measurements and compare to the previous measurements.

Additional comments by Jaime Castañeda, P.E. (BIC) are below:

Nov 21: I let John Andrade know that the load posting signs arrived at the TxDOT Bandera Maintenance Section.

Nov 28: John Andrade emailed me that the load posting signs were placed the day before.

Dec 5: I reminded John Andrade that the repair deadline was as soon as possible. I asked that he get photos of the load posting signs (none have been received yet). Reminded also that this is to keep the safety of the community.

Dec 14: Reached out again to John Andrade and then to Dieter Werner for updates. No reply at that time.

Dec 20: in the morning, reached out by phone to Dieter Werner but he assistant said he was in a meeting. He did reply back on this morning with an email. Some of his concerns was the load posting, a fee associated with load posting, the actual condition of the bridge, manpower, funding, and bridge replacement. Scheduled to take additional string line measurements on tomorrow and take photos of the two installed load posting signs.

Dec 20: Janak and I visited the bridge to take string line measurements. Those measurements have been uploaded to AW. There was no visual observation that indicated that the bridge has moved/settled.

Jan 2: Clayton Ripps (Director of TP&D) called the Bandera County Engineer office and did speak with another guy in the office and relayed the urgency for the County Engineer to call him back.

Comments By Jaime Castañeda, P.E. (BIC)      Date 11/06/2023

#### District Area or Assigned Maintenance Office Comments

Comments By      Date

#### Follow-up Action Resolution Comments

Work to be Completed Via:      +Project Status:      +District Estimated Letting Date:      +Optional Fields

+District Proposed Funding Source:      +CSJ / WO / Project ID:

Action Taken:      Verified By      Date

+Additional Comments if Necessary:

#### CRITICAL FINDING FOLLOW UP INFORMATION (BLANK IF FOLLOW UP ACTION IS NOT A CRITICAL FINDING)

Condition Rating (Affected elements only) 2      Overall Recommendation: Repair      New Load Rating / Analysis Required? N

#### Follow Up Inspection Information:

Automated Email Sent To:

Date Bridge Division notified of Critical Finding: 11/3/2023      Date Bridge Owner notified of Critical Finding: 11/06/2023      Concur with findings: Y

TxDOT Inspector: Jaime Castañeda, P.E. (BIC)      Co-Inspection Date w/ Bridge Owner: 11/09/2023      Bridge Owner Rep:

Comments: Initial discovery by BRG. FUA/CF started by MWWallace on 11/6/2023.

#### Temporary Repair Information:

TxDOT Inspector: Jaime Castañeda, P.E. (BIC)      Date Temporary Recommended Repair(s) Discussed w/Bridge Owner: 11/06/2023

**Bridge Owner Rep:** John Andrade, Road & Bridge Superintendent, phone 830-796-4524

**Co-Inspection Date w/Bridge Owner:** 11/09/2023

**Temp Repair In Place:** N

**Date Temporary Repair was Installed:**

**Date Bridge Division notified of Temp Repair:**

**Comments:** Temporary repair is to close the bridge.  
11-6-23 Jaime Castañeda, P.E. (BIC): spoke with Bandera County and relayed that they would need to re-establish bearing. Emailed them recent examples of repair work details, photos, and estimates that had similar issues in other counties.  
11-10-23 Jaime Castañeda, P.E. (BIC):  
On Wednesday afternoon, 11-8-23, I ordered the new load posting signs (5000 LBS Axle or Tandem. R12-2bT) (see attached emails)  
On yesterday morning, 11-9-23, I met with John Andrade (Bandera County Road and Bridge Superintendent, office 830-796-4524, mobile 830-460-1426) at the Patterson Street Bridge. I let him know that we need a repair soon and that I would be contacting him weekly to get updates and he agreed.

**Permanent Repair Information:**

**TxDOT Inspector:** Jaime Castañeda, P.E. (BIC)

**Permanent Repair Target Date:**

**Bridge Owner Rep:** John Andrade, Road & Bridge Superintendent, phone 830-796-4524

**Co-Inspection Date w/Bridge Owner:** 11/09/2023

**Date Permanent Recommended Repair(s) Discussed w/Bridge Owner:** 11/06/2023

**Permanent Repair Construction Date:**

**Date Bridge Division notified of Permanent Repair:**

**Comments:** Permanent repairs should consist of reestablishing bearing below the spread footings. (It is approximately 1' from the bottom of spread footings to bedrock.)

**DO NOT DISCLOSE - INFORMATION CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT AND 23 USC SECTION 409, SAFETY SENSITIVE INFORMATION**

Inspector: Mark Wallace

Structure Number: 150100AA0188001

Inspection Date:

Facility Carried:

Bridge Inspection Report

Pictures

### Bridge Inspection Follow-Up Action

FUA ID 669735

**Initial Finding Information**

**Location Information**

Bridge ID# 150100AA0188001      Latitude 29.79387561      Longitude -99.24857822      County 010-BANDERA      Location 0.2 MILE SOUTH OF S.H. 16

Facility Carried PATTERSON STREET      Feature Crossed MEDINA RIVER

**Ownership/Responsibility**

District SAT      Area Office      Maintenance Section      Control - Section AA01 - 88

System Designation 2      Bridge Owner Bandera County      Precinct

**Maintenance Information**

Inspection Date 06/06/2023      Rec Type Level 4      Previously Recommended? N      Critical Finding? N

Bridge Component Approaches      Repair Category Provide Standard Delineation/Object Markers at Structure

Other:

**Description of Issue and Recommendation**

Object markers are missing at East and West corners.  
 Recommendation: Install standard delineation/object markers at bridge corners.

**District Bridge Office Comments**

Comments By      Date

**District Area or Assigned Maintenance Office Comments**

Comments By      Date

**Follow-up Action Resolution Comments**

Work to be Completed Via:      +Project Status:      +District Estimated Letting Date:  
 +District Proposed Funding Source:      +CSJ / WO / Project ID:      +Optional Fields

Action Taken:      Verified By      Date

+Additional Comments if Necessary:

**CRITICAL FINDING FOLLOW UP INFORMATION (BLANK IF FOLLOW UP ACTION IS NOT A CRITICAL FINDING)**

Condition Rating (Affected elements only)      Overall Recommendation:      New Load Rating / Analysis Required?

**Follow Up Inspection Information:**

Automated Email Sent To:  
 Date Bridge Division notified of Critical Finding:      Date Bridge Owner notified of Critical Finding:      Concur with findings:  
 TxDOT Inspector:      Co-Inspection Date w/ Bridge Owner:      Bridge Owner Rep:  
 Comments:

**Temporary Repair Information:**

TxDOT Inspector:      Date Temporary Recommended Repair(s) Discussed w/Bridge Owner:  
 Bridge Owner Rep:      Co-Inspection Date w/Bridge Owner:  
 Temp Repair In Place:      Date Temporary Repair was Installed:      Date Bridge Division notified of Temp Repair:  
 Comments:

**Permanent Repair Information:**

TxDOT Inspector:      Permanent Repair Target Date:  
 Bridge Owner Rep:      Co-Inspection Date w/Bridge Owner:  
 Date Permanent Recommended Repair(s) Discussed w/Bridge Owner:      Permanent Repair Construction Date:      Date Bridge Division notified of Permanent Repair:  
 Comments:

DO NOT DISCLOSE - INFORMATION CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT AND 23 USC SECTION 409, SAFETY SENSITIVE INFORMATION

Inspector: Johse Slaughter

Structure Number: 150100AA0188001

Inspection Date:

Facility Carried:

### Bridge Inspection Report

### Pictures



PHOTO 1 Recommended Maintenance Needs

Description 15-010-AA01-88-001 VIEW 10 - MISSING OBJECT MARKERS AT EAST AND WEST CORNERS



### Bridge Inspection Follow-Up Action

FUA ID 538217

**Initial Finding Information**

**Location Information**

Bridge ID# 150100AA0188001      Latitude 29.79387561      Longitude -99.24857822      County 010-BANDERA      Location 0.2 MILE SOUTH OF S.H. 16

Facility Carried PATTERSON STREET      Feature Crossed MEDINA RIVER

**Ownership/Responsibility**

District SAT      Area Office      Maintenance Section      Control - Section AA01 - 88

System Designation 2      Bridge Owner Bandera County      Precinct

**Maintenance Information**

Inspection Date 06/06/2023      Rec Type Level 3      Previously Recommended? Y      Critical Finding? N

Bridge Component Channel      Repair Category Provide Scour/Erosion Protection

Other:

**Description of Issue and Recommendation**

Mitigate undermining at Bents 2 , 3 and 4 footing .

2023 YNE=> Maintenance had not been completed at time of inspection and repairs still need to be made. This item was generated by the Underwater Inspection team after the 2021 UW inspection.

**District Bridge Office Comments**

Comments By      Date

**District Area or Assigned Maintenance Office Comments**

Comments By      Date

**Follow-up Action Resolution Comments**

Work to be Completed Via:	+Project Status:	+District Estimated Letting Date:
+District Proposed Funding Source:	+CSJ / WO / Project ID:	+Optional Fields

Action Taken: Recommendation not Performed      Verified By Jesus Saucedo      Date 02/16/2023

+Additional Comments if Necessary:

**CRITICAL FINDING FOLLOW UP INFORMATION (BLANK IF FOLLOW UP ACTION IS NOT A CRITICAL FINDING)**

Condition Rating (Affected elements only)      Overall Recommendation:      New Load Rating / Analysis Required?

**Follow Up Inspection Information:**

Automated Email Sent To:

Date Bridge Division notified of Critical Finding:      Date Bridge Owner notified of Critical Finding:      Concur with findings:

TxDOT Inspector:      Co-Inspection Date w/ Bridge Owner:      Bridge Owner Rep:

Comments:

**Temporary Repair Information:**

TxDOT Inspector:      Date Temporary Recommended Repair(s) Discussed w/Bridge Owner:

Bridge Owner Rep:      Co-Inspection Date w/Bridge Owner:

Temp Repair In Place:      Date Temporary Repair was Installed:      Date Bridge Division notified of Temp Repair:

Comments:

**Permanent Repair Information:**

TxDOT Inspector:      Permanent Repair Target Date:

Bridge Owner Rep:      Co-Inspection Date w/Bridge Owner:

Date Permanent Recommended Repair(s) Discussed w/Bridge Owner:      Permanent Repair Construction Date:      Date Bridge Division notified of Permanent Repair:

Comments:

DO NOT DISCLOSE - INFORMATION CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT AND 23 USC SECTION 409, SAFETY SENSITIVE INFORMATION

Inspector: Alexis Martinez

Structure Number: 150100AA0188001

Inspection Date:

Facility Carried:

### Bridge Inspection Report

### Pictures



PHOTO 1 Defect

Description Bent 3 footing undermining



PHOTO 2 Defect

Description Bent 2 footing, West Side, undermining 14" deep

Inspector: Alexis Martinez

Structure Number:

150100AA0188001

Inspection Date:

Facility Carried:

### Bridge Inspection Report

### Pictures

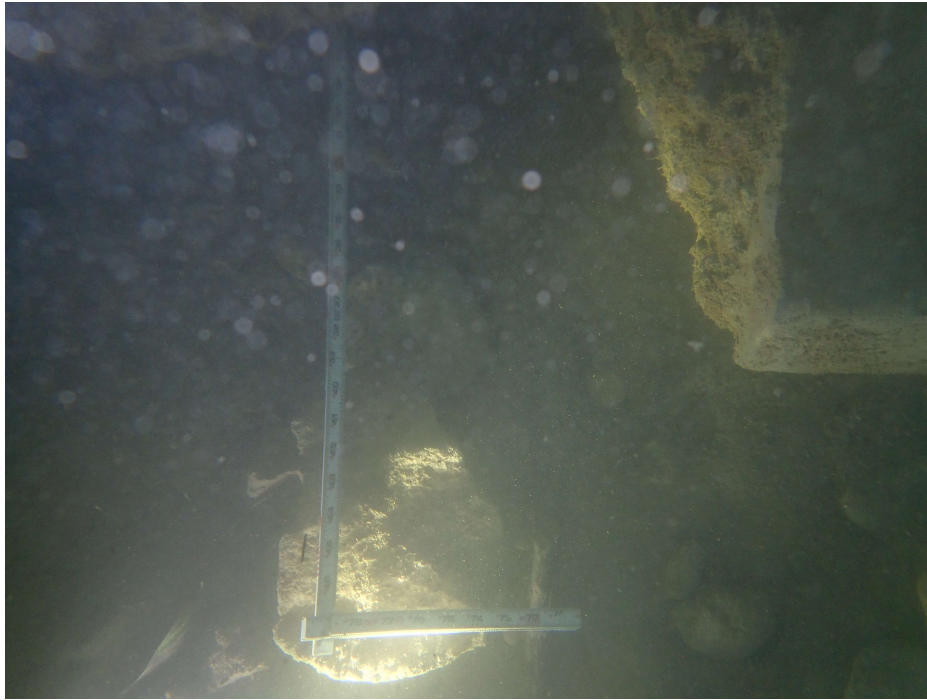


PHOTO 3 Defect

Description Bent 4 footing, East Side, undermining up to 40" out to edge of footing (full width of the footing)

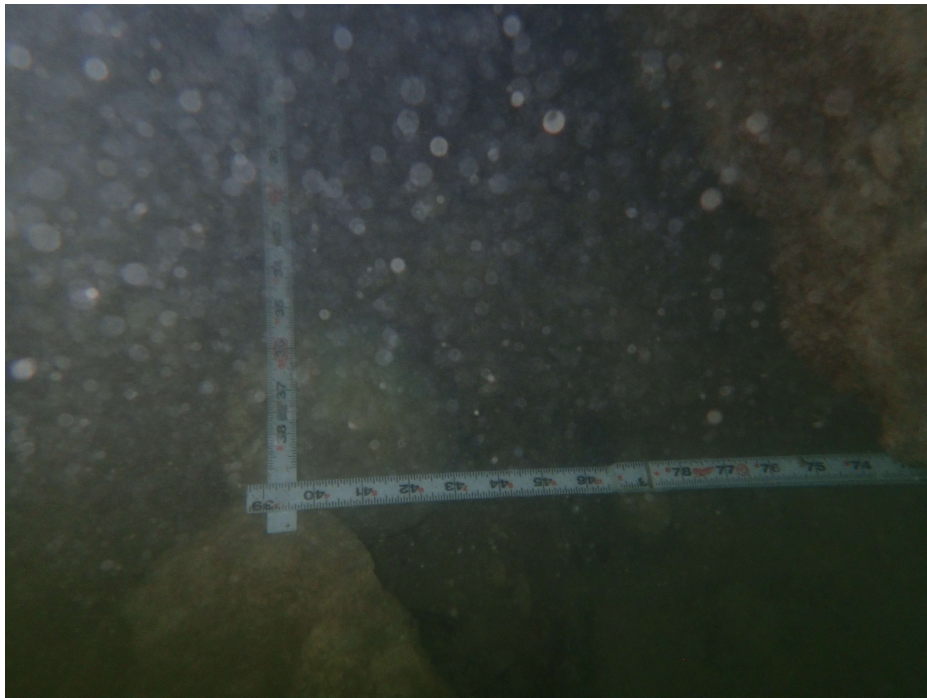


PHOTO 4 Defect

Description Bent 4 footing, East Side, undermining up to 40" out to edge of footing (full width of the footing)



Inspector: Alexis Martinez

Structure Number: 150100AA0188001

Inspection Date:

Facility Carried:

### Bridge Inspection Report

### Pictures



PHOTO 5 Defect

Description Bent 4 footing, East Side, undermining



PHOTO 6 Recommended Maintenance Needs

Description 15-010-AA01-88-001 VIEW 9 - UNDERMINING AT UPSTREAM END OF PIER WALL AT BENT 3 FROM NE

# Underwater Channel Report





## Underwater Inspection - Channel

SLOPE OF CHANNEL BANK: MILD SLOPE MATERIAL: 6"-12" STONE RIPRAP  
TYPE OF CHANNEL BOTTOM  SAND  SILT  GRAVEL  CLAY  ROCK  OTHER  
SCOUR BELOW ORIG. CHANNEL BOTTOM (AT ANY PIER OR ABUTMENT) YES  
TYPE OF SCOUR (IF APPLICABLE)  LOCAL  GENERAL  CONTRACTION  LATERAL

SCOUR COMMENTS:

There is local scour exposing footing toes and undermining the footings at Bents 2, 3, and 4. Concrete footings measure 15' long, 40" wide, and 15" tall.

Bent 2, East Side of the footing is exposed, starting at the North End, 2' long, up to 5" tall, no undermining.

Bent 2, West Side of the footing is exposed the entire length of 15', with undermining that starts 5' from the North End and measures 3' wide, up to 2" tall, and up to 14" deep.

Bent 3, East Side of footing is exposed the entire length of 15', and midspan of footing is undermined 4' wide, up to 10" tall, and 40" deep (full width of the footing).

Bent 3, West Side of footing is exposed the entire length of 15', and midspan of footing is undermined 6' wide, up to 12" tall, and 40" deep (full width of footing).

Bent 4, East Side of footing is exposed the entire length of 15', and 5' from the South End there is undermining 10' wide, up to 13" tall, and 40" deep (full width of footing). There is also a 30" long section of the footing here that is broken off flush with the pier wall.

Bent 4, West Side of footing is exposed, starting at the North End, 3' long and up to 15" tall (full height). 3' from the North end the west side of the footing is undermined measuring 5' wide, up to 3" tall, and 40" deep (full width of footing).

DEBRIS  NOT APPLICABLE  ABOVE WATERLINE  BELOW WATERLINE  HAZARDOUS  TOXIC  
DEBRIS REMOVAL REQUIRED: NO  
DEBRIS REMOVAL NOTE: N/A

DEBRIS DESCRIPTION: N/A

CHANNEL COMMENTS:

The channel banks are lined with large stone and vegetation.

See scour comments above.

### COMPONENT RATING (NBI 61)

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UW COMPONENT RATING: 4 UW COMPONENT RATING COMMENTS: Undermining of the footings.

OVERALL CHANNEL COMPONENT RATING (NBI 61): 4

***DO NOT DISCLOSE. THIS INFORMATION IS CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT & 23 U.S.C SECTION 409, SAFETY SENSITIVE INFORMATION.***

# Underwater Substructure Report

Inspector: Davis, Joshua  
Inspection Date: 11/02/2023



Structure Number: 150100AA0188001  
Facility Carried: PATTERSON STREET

## Underwater Inspection - Substructure

SUBSTRUCTURE TYPE:  CONCRETE  STEEL  TIMBER  MASONRY

TOTAL NUMBER OF BENTS / PIERS: 5 NUMBERED FROM: E TO W

NUMBER OF BENTS / PIERS LOCATED IN THE WATER: 4

RANGE OF BENTS INSPECTED: 2 TO 5 AND TO

### SUBSTRUCTURE DESCRIPTION:

The substructure consists of concrete pier walls on concrete spread footings.

### SUBSTRUCTURE INSPECTION FINDINGS:

There is local scour exposing footing toes and undermining the footings at Bents 2, 3, and 4.

Concrete footings measure 15' long, 40" wide, and 15" tall.

Bent 2, East Side of the footing is exposed, starting at the North End, 2' long, up to 5" tall, no undermining.

Bent 2, West Side of the footing is exposed the entire length of 15', with undermining that starts 5' from the North End and measures 3' wide, up to 2" tall, and up to 14" deep.

Bent 3, East Side of footing is exposed the entire length of 15', and midspan of footing is undermined 4' wide, up to 10" tall, and 40" deep (full width of the footing).

Bent 3, West Side of footing is exposed the entire length of 15', and midspan of footing is undermined 6' wide, up to 12" tall, and 40" deep (full width of footing).

Bent 4, East Side of footing is exposed the entire length of 15', and 5' from the South End there is undermining 10' wide, up to 13" tall, and 40" deep (full width of footing). There is also a 30" long section of the footing here that is broken off flush with the pier wall.

Bent 4, West Side of footing is exposed, starting at the North End, 3' long and up to 15" tall (full height). 3' from the North end the west side of the footing is undermined measuring 5' wide, up to 3" tall, and 40" deep (full width of footing).

## **COMPONENT RATING (NBI 60)**

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UNDERWATER COMPONENT RATING: 1      UW COMPONENT RATING COMMENTS:      Undermining of the footings.

OVERALL SUBSTRUCTURE COMPONENT RATING (NBI 60):      1

***DO NOT DISCLOSE. THIS INFORMATION IS CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT & 23 U.S.C SECTION 409, SAFETY SENSITIVE INFORMATION.***

# Underwater Additional Information Report



Inspector: Davis, Joshua

Inspection Date: 11/02/2023



Bridge Inspection Report

Structure Number: 150100AA018800

Facility Carried: 1 PATTERSON STREET

**Underwater Inspection - Additional Information**

ADDITIONAL NOTES:

N/A

**RECOMMENDED CODING FOR NBI ITEMS:**

- (60) SUBSTRUCTURE CONDITION: 1 - Imminent Failure Condition (bridge closed, pending corrective action)
- (61) CHANNEL CONDITION: 4 - Protect. severely undermined. sev. damage
- (62) CULVERT CONDITION: N - Not Applicable
- (88.1) UNDERWATER INSPECTION: 2-Divers or special techniques are necessary.
- (92.2.1) UNDERWATER INSPECTION REQUIRED: Y
- (92.2.2) UNDERWATER INSPECTION FREQUENCY: 24
- (93.2) UNDERWATER INSPECTION DATE: 11/02/2023
- (111) PIER OR ABUTMENT PROTECTION: 1 - Navigation protection not required
- (113) SCOUR CRITICAL: 1 - Failure is imminent and bridge is closed to traffic

FOLLOW UP ACTIONS:

# Channel Cross-Section



District: 15 County: 010 Control - Section: AA01 - 88 Structure #: 001 Route: PATTERSON

Company Name: TxDOT Company Number: \_\_\_\_\_  
Signature: *John T. Davis* Date: 11/02/23

Comments:  
PROFILE TAKEN USING LEADLINE ON UPSTREAM AND DOWNSTREAM SIDES.

Company Name: \_\_\_\_\_ Company Number: \_\_\_\_\_  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Comments:

Company Name: \_\_\_\_\_ Company Number: \_\_\_\_\_  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Comments:

Company Name: \_\_\_\_\_ Company Number: \_\_\_\_\_  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Comments:

190100AA0188001

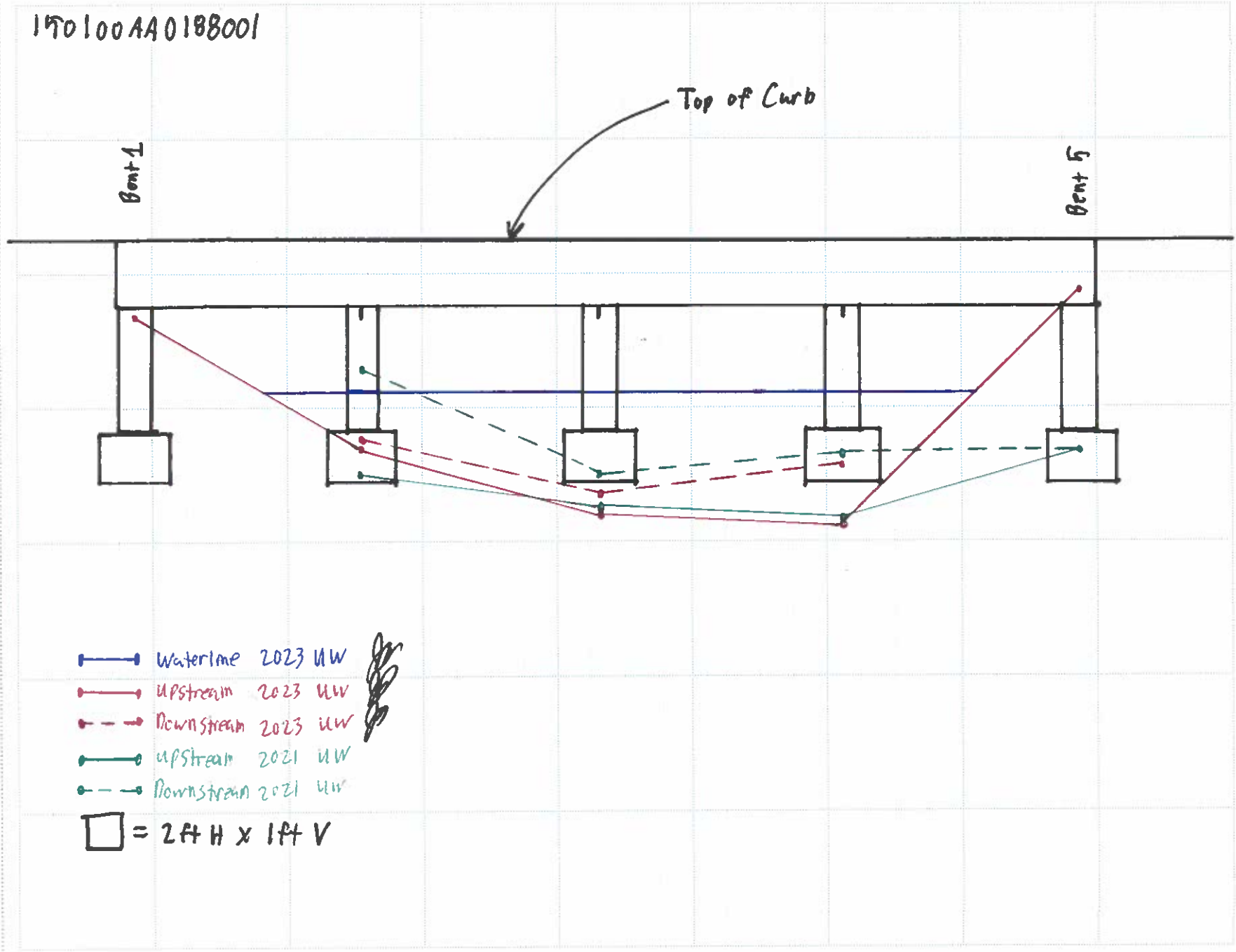
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Design: \_\_\_\_\_  
Check: \_\_\_\_\_

Hwy: \_\_\_\_\_  
ID#: \_\_\_\_\_

County: \_\_\_\_\_  
C-S-J: \_\_\_\_\_

Sheet: \_\_\_\_\_ of \_\_\_\_\_



- Waterline 2023 UW
- UPstream 2023 UW
- - - ● - - - Downstream 2023 UW
- UPstream 2021 UW
- - - ● - - - Downstream 2021 UW
- = 2 ft H x 1 ft V



# Pictures



Inspector: Joshua Davis  
Inspection Date: 11/02/2023



Structure Number: 150100AA0188001  
Facility Carried: PATTERSON STREET

### Bridge Inspection Report

## Pictures



PHOTO 1

Description 1. Downstream Elevation



PHOTO 2

Description 2. Upstream Elevation



Inspector: Joshua Davis  
Inspection Date: 11/02/2023



Structure Number: 150100AA0188001  
Facility Carried: PATTERSON STREET

### Bridge Inspection Report

## Pictures



PHOTO 3

Description 3. Begin Approach from Begin Bridge



PHOTO 4

Description 4. Begin Bridge from Begin Approach



Inspector: Joshua Davis  
Inspection Date: 11/02/2023



Structure Number: 150100AA0188001  
Facility Carried: PATTERSON STREET

### Bridge Inspection Report

## Pictures



PHOTO 5

Description 5. End Bridge from End Approach



PHOTO 6

Description 6. End Approach From End Bridge



Inspector: Joshua Davis  
Inspection Date: 11/02/2023



Structure Number: 150100AA0188001  
Facility Carried: PATTERSON STREET

### Bridge Inspection Report

## Pictures



PHOTO 7

Description 7. Begin Bridge Right Embankment



PHOTO 8

Description 8. Begin Bridge Left Embankment



Inspector: Joshua Davis  
Inspection Date: 11/02/2023



Structure Number: 150100AA0188001  
Facility Carried: PATTERSON STREET

### Bridge Inspection Report

## Pictures



PHOTO 9

Description 9. Looking Upstream



PHOTO 10

Description 10. Looking Downstream



Inspector: Joshua Davis  
Inspection Date: 11/02/2023



Structure Number: 150100AA0188001  
Facility Carried: PATTERSON STREET

### Bridge Inspection Report

### Pictures



PHOTO 11

Description 11. End Bridge Right Embankment



PHOTO 12

Description 12. End Bridge Left Embankment



Inspector: Joshua Davis  
Inspection Date: 11/02/2023



Structure Number: 150100AA0188001  
Facility Carried: PATTERSON STREET

### Bridge Inspection Report

### Pictures



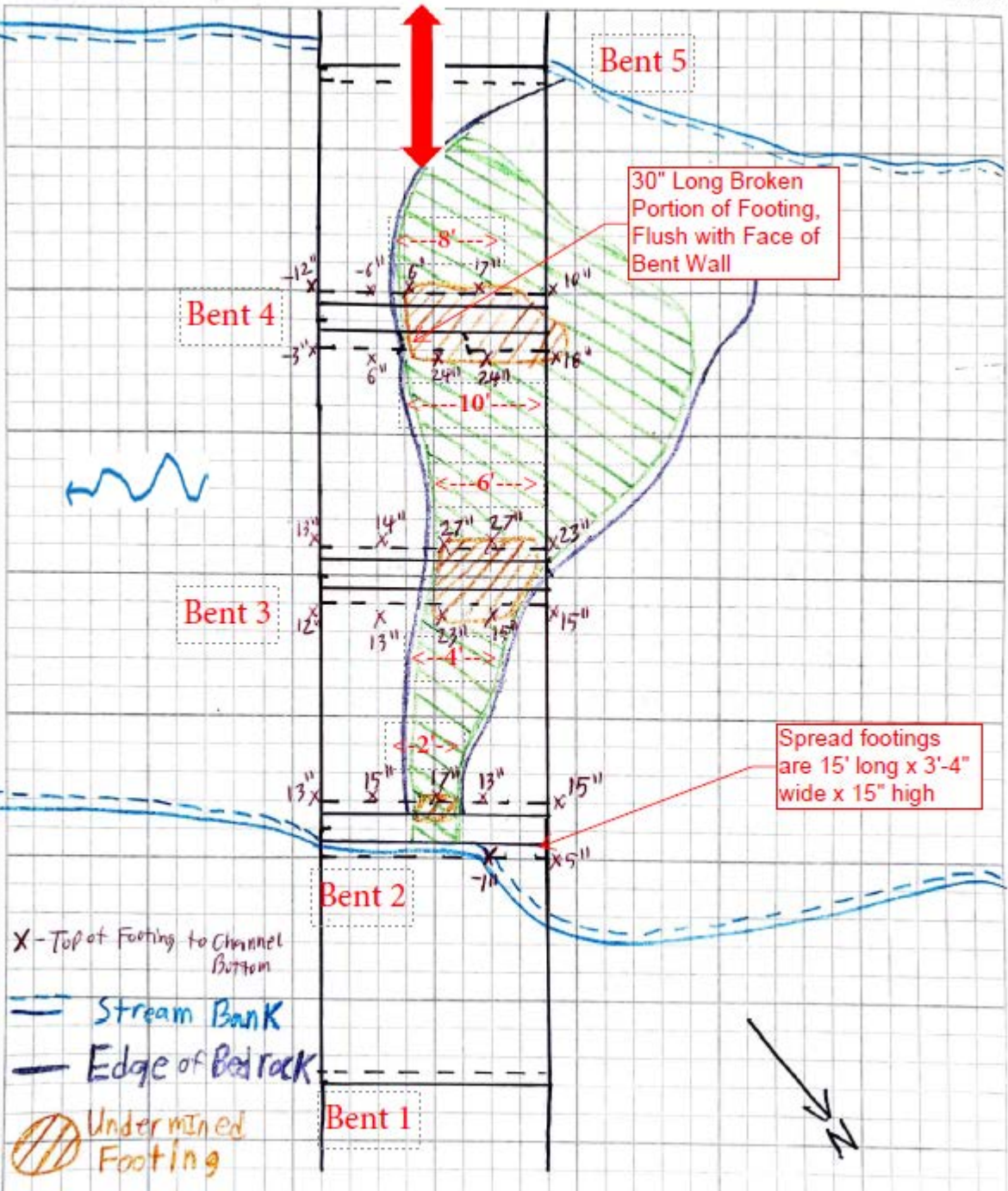
PHOTO 13

Description 13. Typical Bent (Bent 3)



PHOTO 14

Description 14. Typical Superstructure



Bent 4

Bent 5

30" Long Broken Portion of Footing, Flush with Face of Bent Wall

Bent 3

Spread footings are 15' long x 3'-4" wide x 15" high

Bent 2

Bent 1

X - Top of Footing to Channel Bottom

Stream Bank

Edge of Bedrock

Undermined Footing

Scoured Area