

Iowa Homeland Security & Emergency Management  
7900 Hickman Rd, Ste 500  
Windsor Heights, IA 50324

**Iowa Flood Mitigation Program (FMP)  
Flood Recovery Project Application**

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**What is the Flood Recovery Fund?**

A Flood Recovery Fund is established in the state treasury under the control of the Flood Mitigation Board to provide funding to eligible political subdivisions of the state to implement flood response, flood recovery, or flood mitigation projects.

**Eligibility:**

- 1) An eligible applicant is a political subdivision of the state located in a county designated under presidential disaster declaration DR-4421-IA and also located in a county where the federal emergency management agency individual assistance program has been activated.
- 2) Eligible projects must support flood response, flood recovery, or flood mitigation. Eligible project types include construction and reconstruction of levees, embankments, impounding reservoirs, conduits or other means that are necessary for the protection from the effects of floodwaters and may include the deepening, widening, alteration, change, diversion, or other improvement of watercourses if necessary for the protection of such property from the effects of flood waters. A project may consist of one or more phases of construction or reconstruction that are contracted for separately if the larger project, of which the project is a part, otherwise meets the requirements of this subrule.

**Application Process:**

This application is designed to capture the necessary information to meet program requirements.

- 1) Description of the project and how the project supports flood response, flood recovery, or flood mitigation activities.
- 2) Description of financial assistance need through the Flood Recovery Fund.
- 3) Description of the necessary expense or serious need of the political subdivision.
- 4) Details on any additional funds to be applied to the project.

**Flood Mitigation Board Process:**

- 1) Review the application.
- 2) Approve, defer, or deny the application.

**Iowa Flood Mitigation Program (FMP)  
Flood Recovery Project Application**

**I. Applicant Information**

<b>A. Applicant/Community Name</b>	<b>B. Address</b>		<b>City, State, Zip Code</b>
Wabonsie Levee District	1166 Bluff Rd		Thurman, IA 51654
<b>C. Point of Contact (POC) Name for Project</b>	<b>POC Title</b>	<b>POC Agency</b>	<b>POC Email</b>
Jim Shepherd	Chairman	Applicant	<a href="mailto:djshep1167@gmail.com">djshep1167@gmail.com</a>
<b>POC PO Box and Zip Code</b>	<b>POC Street Address</b>	<b>POC City, State, Zip Code</b>	<b>POC Phone</b>
51654	1166 Bluff Rd	Thurman, IA 51654	712-350-1167
<b>Alternate POC Name or Authorized Representative</b>	<b>Alt POC Title</b>	<b>Alt POC Agency</b>	<b>Alternate POC Email</b>
John Doty	Trustee	Applicant	<a href="mailto:jdotypsf4@hotmail.com">jdotypsf4@hotmail.com</a>
<b>Alt POC PO Box and Zip Code</b>	<b>Alt POC Street Address</b>	<b>Alt POC City, State, Zip Code</b>	<b>Alt POC Phone</b>
5164	1166 Bluff Rd	Thurman, IA 51654	712-350-1167
<b>D. Federal Tax ID # / FEIN</b>	<b>E. County Name</b>	<b>F. US Congressional District(s)</b>	<b>State Legislative Districts</b> Senate House
	Mills		
<b>G. Is the Applicant/Community participating in the National Flood Insurance Program (NFIP)?</b>		<b>Community's CID Number</b>	
No			

**II. Project Cost Information**

**A. Identify the requested funding source:**

<b>Permanent Work</b>
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**B. Project Budget Summary**

Mob/Demob/Travel	\$	109,337.12
Site Access/Maint/Prep	\$	211,659.46
Rip Rap/Shot Rock	\$	903,400.58
Fuel	\$	81,472.21
East Breach	\$	2,534,756.81
Middle Breach	\$	72,420.56
West Breach	\$	289,680.74
Site Restoration	\$	57,649.97
Contingency 15%	\$	639,056.62
2 Flood Control Gates at breach sites	\$	500,000.00
Engineering and Site Surveys	\$	30,000.00
<b>Total Project Budget Summary</b>	<b>\$</b>	<b>5,429,434.07</b>

**C. Project Funding Source**

Identify all anticipated funding sources for the project and the amounts.

State that you have applied for and/or received approved federal, state and/or local financial assistance.

Please insert additional rows as needed.

Identify source	Applied/ Received	Federal \$	State \$	Local \$	TOTAL
FEMA		\$ 82,002.84			\$ 82,002.84
			\$ 10,933.71		\$ 10,933.71
				\$ 16,400.57	\$ 16,400.57
FEMA		\$ 158,744.60			\$ 158,744.60
			\$ 21,165.95		\$ 21,165.95
				\$ 31,748.92	\$ 31,748.92
FEMA		\$ 677,550.44			\$ 677,550.44
			\$ 90,340.06		\$ 90,340.06
				\$ 135,510.09	\$ 135,510.09
FEMA		\$ 61,104.16			\$ 61,104.16
			\$ 8,147.22		\$ 8,147.22
				\$ 12,220.83	\$ 12,220.83
FEMA		\$ 1,901,067.61			\$ 1,901,067.61
			\$ 253,475.68		\$ 253,475.68
				\$ 380,213.52	\$ 380,213.52
FEMA		\$ 54,315.42			\$ 54,315.42
			\$ 7,242.06		\$ 7,242.06
				\$ 10,863.08	\$ 10,863.08
FEMA		\$ 217,260.56			\$ 217,260.56
			\$ 28,968.07		\$ 28,968.07
				\$ 43,452.11	\$ 43,452.11
FEMA		\$ 43,237.48			\$ 43,237.48
			\$ 5,765.00		\$ 5,765.00
				\$ 8,647.50	\$ 8,647.50
FEMA		\$ 479,292.47			\$ 479,292.47
			\$ 63,905.66		\$ 63,905.66
				\$ 95,858.49	\$ 95,858.49
FEMA		\$ 375,000.00			\$ 375,000.00
			\$ 50,000.00		\$ 50,000.00
				\$ 75,000.00	\$ 75,000.00
FEMA		\$ 22,500.00			\$ 22,500.00

			\$ 3,000.00		\$ 3,000.00
				\$ 4,500.00	\$ 4,500.00
<b>Total Project Funding Source</b>		\$ 4,072,075.55	\$ 542,943.41	\$ 814,415.11	\$ 5,429,434.07

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**III. Project Plan Summary**

**A. Provide a brief description of the project and how the project supported flood response or will support future flood recovery and flood mitigation activities. This is a summary of Tab B - Project Plan.**

Repair to the levee system is critical to protection of the City of Barlett, the I-29 corridor in this area, the railroad and the agricultural land in the district. PLEASE NOTE THAT ENGINEERING AND SITE SURVEY COSTS HAVE NOT BEEN INCLUDED

**B. Provide a brief description of the financial assistance need through the Flood Recovery Fund.**

Wabonsie Levee District is currently working with FEMA and the USACE to determine the scope of work, cost and eligibility of multiple breaches on the levee system. While it is unknown what level of federal assistance will ultimately be available, our hope is that all damages and repairs will be deemed eligible and our exposure will remain at 15% of the total cost. Our current best estimate of costs are shown in this application.

**C. Explain how financial assistance through the Flood Recovery Fund is essential to meet the necessary expenses or serious needs of the applicant related to flood response, flood recovery, and flood mitigation.**

**D. Provide details of any additional funds that can be applied to the project.**

None

**E. Description of Project Location (i.e. Latitude and Longitude (minimum 6 digits after the decimal), Neighborhood, Subdivision, Geographic Boundaries, Driving Directions, etc.)**

Facility Description: Wabonsie levee is approximately 2 miles long, running in an east west direction. It is approximately 150 FT at its base, 15 FT on top and 20 FT high, and is drivable on top. The levee was designed for flood control until it was breached in March 2019 from high velocity flooding  
Approx. Year Built: 1953  
Location Description: West of I-29  
GPS Latitude/Longitude: 40.88040, -95.80389

**IV. Work Schedule**

A. List the major milestones for this project.

Task	Months/Years from Award			Responsible Party
	Start	Complete		
<b>Total Project Duration:</b>	36			

**V. Certifications**

To the best of my knowledge and belief, I certify that all data in this application packet is complete, true and correct. The governing body of the applicant has duly authorized this document and hereby applies for assistance as documented in this application. The applicant understands that the project shall not proceed until Flood Mitigation Board approval is granted.

Signature of the Chief Executive Officer

Name of the Chief Executive Officer

Title

Organization

Date

Phone Number

Signature of the Authorized Representative

Name of Authorized Representative

Title

Organization

Date

PO Box / Street Address

City, State and Zip Code

Phone Number

Email Address

## Project Plan

Applicant: **Mills County**

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Political subdivision shall attach to the Flood Recovery Project Application the project plan.

Project plan shall include:

**1. a. A detailed description of the project Scope of Work.**

i. How the project supported flood response or will support future flood recovery and flood mitigation activities.

ii. Map(s) identifying project area.

See attached maps showing the properties and locational area within Mills County

**2. a. An estimated cost of the project (detailed budget):**

i. A detailed description of the amount of funds expended to date and the funding source.

**3. a. If available: A copy of the application(s) from other funding sources and subsequent approval letter(s).**

**STATE OF IOWA  
DESIGNATION OF APPLICANT'S AUTHORIZED REPRESENTATIVE**

Jim Shephard is hereby authorized to execute on behalf of  
(Name of Representative)

Wabonsie Levee District this mitigation project and to file it with  
(Applicant Entity)

Iowa Homeland Security and Emergency Management (HSEMD) for the purpose of obtaining financial assistance under the Flood Mitigation Bill, Senate File 2217.

Signed \_\_\_\_\_  
(Date)

\_\_\_\_\_  
Chief Executive Officer  
(Print Name and Title)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
Applicant's Authorized Representative  
(Print Name and Title)

\_\_\_\_\_  
(Signature)

Attested: \_\_\_\_\_  
(Print Name and Title)

\_\_\_\_\_  
(Signature)

(Please print or type except for signature)

In order for the State of Iowa to pay you the amount that is due to you and to comply with the IRS regulations on reporting these payments, we are requesting the following information. Failure to provide this information will result in withholding of payment.

**BOX A**

Are you/your business: YES NO

Individual [I]  YES  NO  
or Sole Proprietorship [S]  YES  NO

If the answer to both was no, please complete Box B.

If you answered yes to either item, please provide Your Social Security number:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_

**AND**

Complete the Name and Address below:

Last Name: First Name: MI

Doing Business As:

Address:

Address:

City: State Zip

**BOX B**

Is your business: YES NO

Corporation [C]  YES  NO  
Partnership [P]  YES  NO  
Estate of Trust [E]  YES  NO  
Public Service Corp [U]  YES  NO  
Government [G]  YES  NO  
Other [O]  YES  NO

Please Explain: \_\_\_\_\_

Please provide us with your

**Federal Employer Identification number:**

\_\_\_\_\_

**AND**

Complete the Name and Address below:

Last Name: First Name: MI

Doing Business As:

**Wabonsie Levee District**

Address:

**1166 Bluff Rd**

Address:

City, State Zip

**Thurman, IA 51654**

**CERTIFICATION MUST BE SIGNED BY VENDOR**

Certification - Under penalties of perjury, I certify that:  
(1) The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and  
(2) I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividend, or (c) the IRS has notified me that I am no longer subject to backup withholding.

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

**FOR OFFICE USE ONLY (Refer to Procedure 270.450 for more details)**

From:  Add  
Dept.  Change  
\_\_\_\_\_  
(Include vendor code and changes only)  
Contact: \_\_\_\_\_  
Added For Purchasing:  Delete Reason:  
 Yes  No

## Minority Impact Statement

Pursuant to 2008 Iowa Acts, HF 2393, Iowa Code Section 8.11, all funding applications submitted to the State of Iowa shall include a Minority Impact Statement. This is the state's mechanism to require applicants to consider the potential impact of the project's proposed programs or policies on minority groups.

**Please choose the statement(s) that pertains to this application. Complete all the information requested for the chosen statement(s).**

- The proposed project programs or policies could have a disproportionate or unique **positive** impact on minority persons.

Describe the positive impact expected from this project

Indicate which group is impacted:

- Women
- Persons with a Disability
- Blacks
- Latinos
- Asians
- Pacific Islanders
- American Indians
- Alaskan Native Americans
- Other

- The proposed project programs or policies could have a disproportionate or unique **negative** impact on minority persons.

Describe the negative impact expected from this project

Present the rationale for the existence of the proposed program or policy.

Provide evidence of consultation of representatives of the minority groups impacted.

Indicate which group is impacted:

- Women
- Persons with a Disability
- Blacks

- Latinos
- Asians
- Pacific Islanders
- American Indians
- Alaskan Native Americans
- Other

The proposed project programs or policies are **not expected to have** a disproportionate or unique impact on minority persons.

Present the rationale for determining no impact.

I hereby certify that the information on this form is complete and accurate, to the best of my knowledge:

Printed Name

Title

Signature

Date

**Definitions**

"Minority Persons", as defined in Iowa Code Section 8.11, mean individuals who are women, persons with a disability, Blacks, Latinos, Asians or Pacific Islanders, American Indians, and Alaskan Native Americans.

"Disability", as defined in Iowa Code Section 15.102, subsection 5, paragraph "b", subparagraph (1):

b. As used in this subsection:

- (1) "*Disability*" means, with respect to an individual, a physical or mental impairment that substantially limits one or more of the major life activities of the individual, a record of physical or mental impairment that substantially limits one or more of the major life activities of the individual, or being regarded as an individual with a physical or mental impairment that substantially limits one or more of the major life activities of the individual.

"*Disability*" does not include any of the following:

- (a) Homosexual or bisexuality.
- (b) Transvestism, transsexualism, pedophilia, exhibitionism, voyeurism, gender identity disorders not resulting from physical impairments or other sexual behavior disorders.
- (c) Compulsive gambling, kleptomania, or pyromania
- (d) Psychoactive substance abuse disorders resulting from current illegal use of drugs.

"State Agency", as defined in Iowa Code Section 8.11, means a department, board, bureau, commission, or other agency or authority of the State of Iowa.



## **MOUNT FARM DRAINAGE, LLC**

**3313 260<sup>TH</sup> ST, RIVERTON, IOWA 51650 (712) 308-3993 MOUNTFARMDRAINAGE@GMAIL.COM**

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Mount Farm Drainage LLC has inspected the levee system south of Bartlett and has prepared an estimate to repair it. Working with levee sponsor Jim Shepherd, we have prepared this estimate based on certain criteria he instructed us to use and on his firsthand knowledge of the depths needed to fill, that are currently under water. If Mount Farm Drainage LLC is mobilized on this project, an in-depth survey and a project engineer will create a more accurate estimate based on actual data.

### **East Breach**

This breach will use shot rock to bring the base of the new levee up two feet above the water. This shot rock will be delivered out of Corning, Iowa. This is currently the only location locally that could provide the amount of shot rock needed for this project. It would take 20-25 working quarry days to complete delivery and placement of the shot rock. This is based on the quarry estimate that they can load 3000-3500 tons per working day. Having experience placing 140,000 tons of shot rock in 28 days in Craig, Missouri, on another levee project, gives Mount Farm Drainage LLC the confidence that this can be easily achieved. We believe pulling clay out of Waubonsie creek to be the fastest and cheapest route to cap the rock and build the levee. Retrieving sand from levee breaches to the south would take a large effort and extra money that we deem unnecessary. The clay would be placed and compacted in 8" lifts or whatever the customer desires. The slopes would be set on 2.5-1.

### **Middle Breach**

Getting to this location with borrow material will be the most difficult part of this project. We would recommend clay borrow from Waubonsie Creek again. Material will be placed between railroad tracks and Western Avenue in 8" lifts again until target elevation is reached.

### **West Breach**

We would recommend that clay borrow from Waubonsie creek will again be the best choice for this breach. The clay will be placed and compacted in 8" lifts.

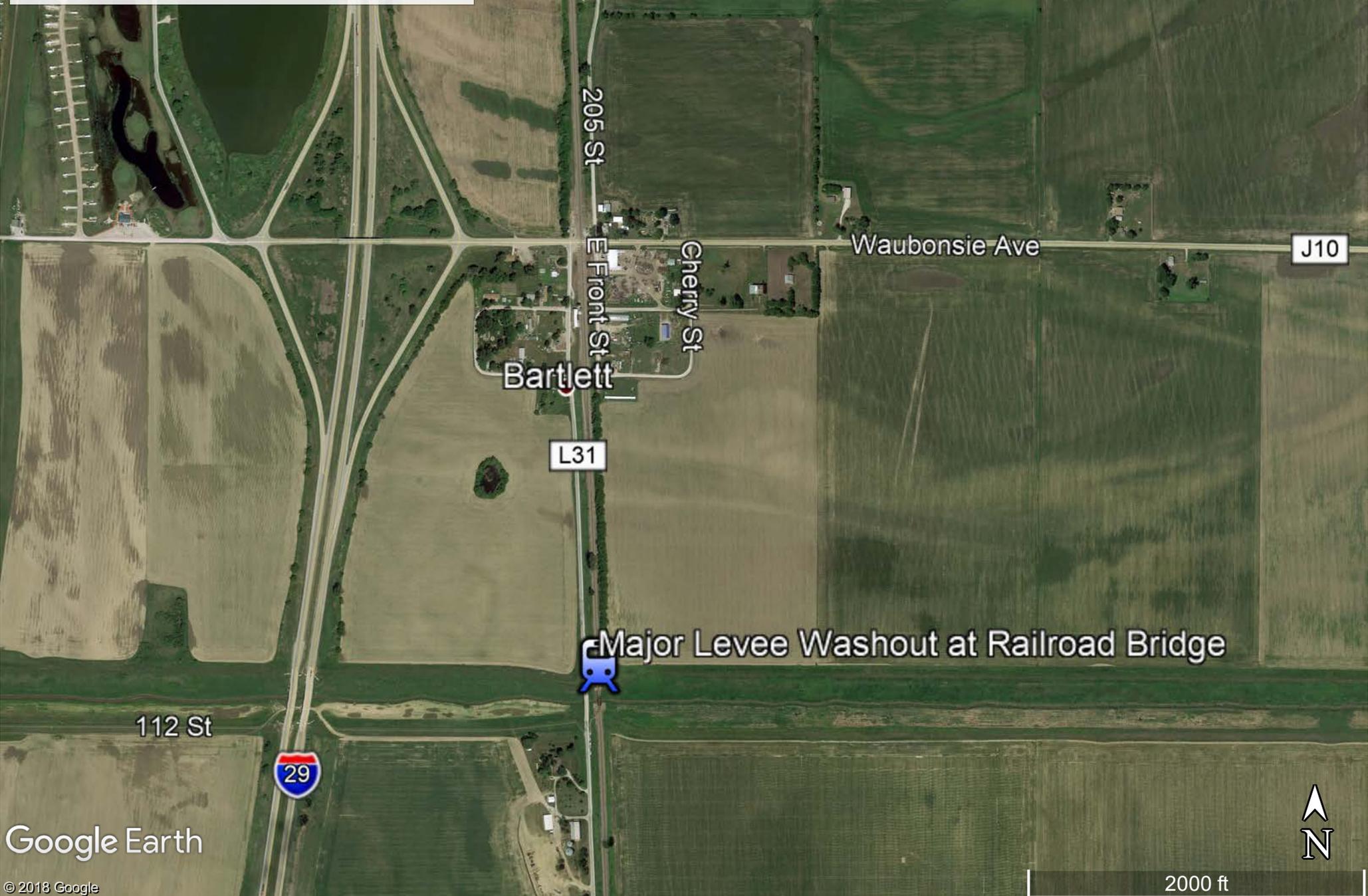
These all seem to be outlet breaches on this project. If we were to use sand to build levee bases, it would all have to be acquired downstream. The cost of this would be considerably higher than using the borrow, that the originally levee was built from, right out of Waubonsie creek. If it is determined that sand is required, we will need to adjust our estimate accordingly.

# Project #110104 - DR 4421 IA

Major Washout of Levees in Four Places  
Waubonsie Levee District  
GPS:Center of Railroad 40.87999, -95.794332

## Legend

- Bartlett
-  Major Levee Washout at Railroad Bridge



Google Earth

© 2018 Google



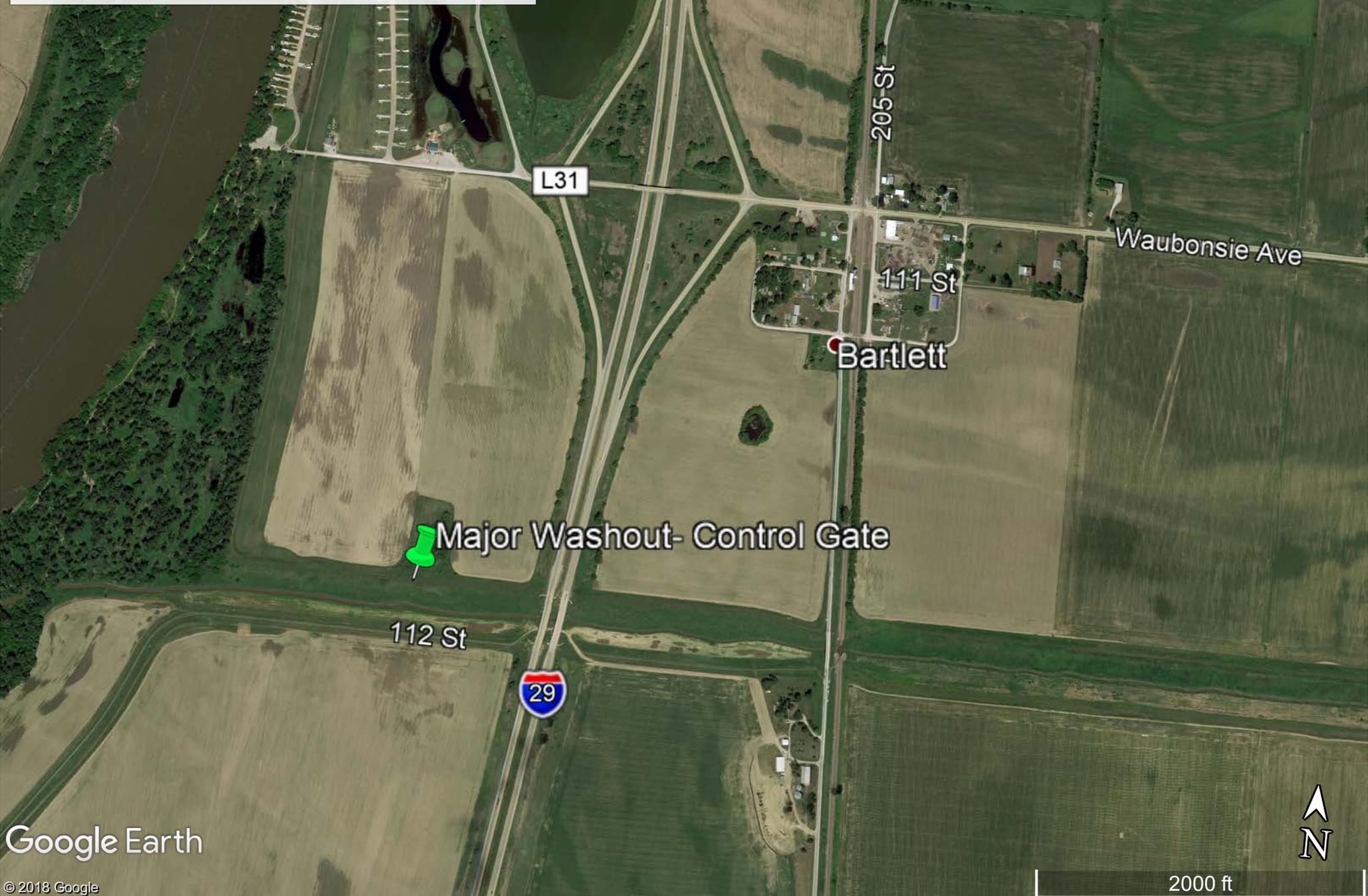
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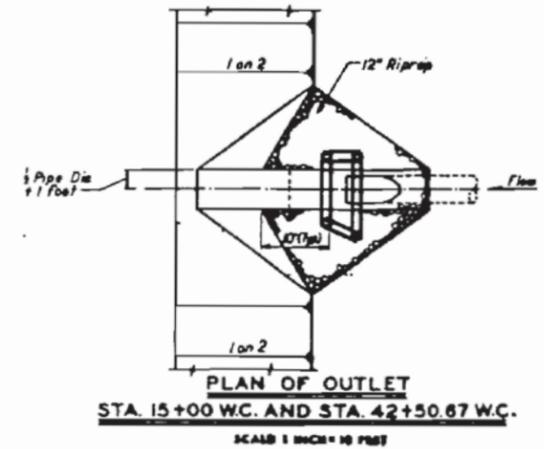
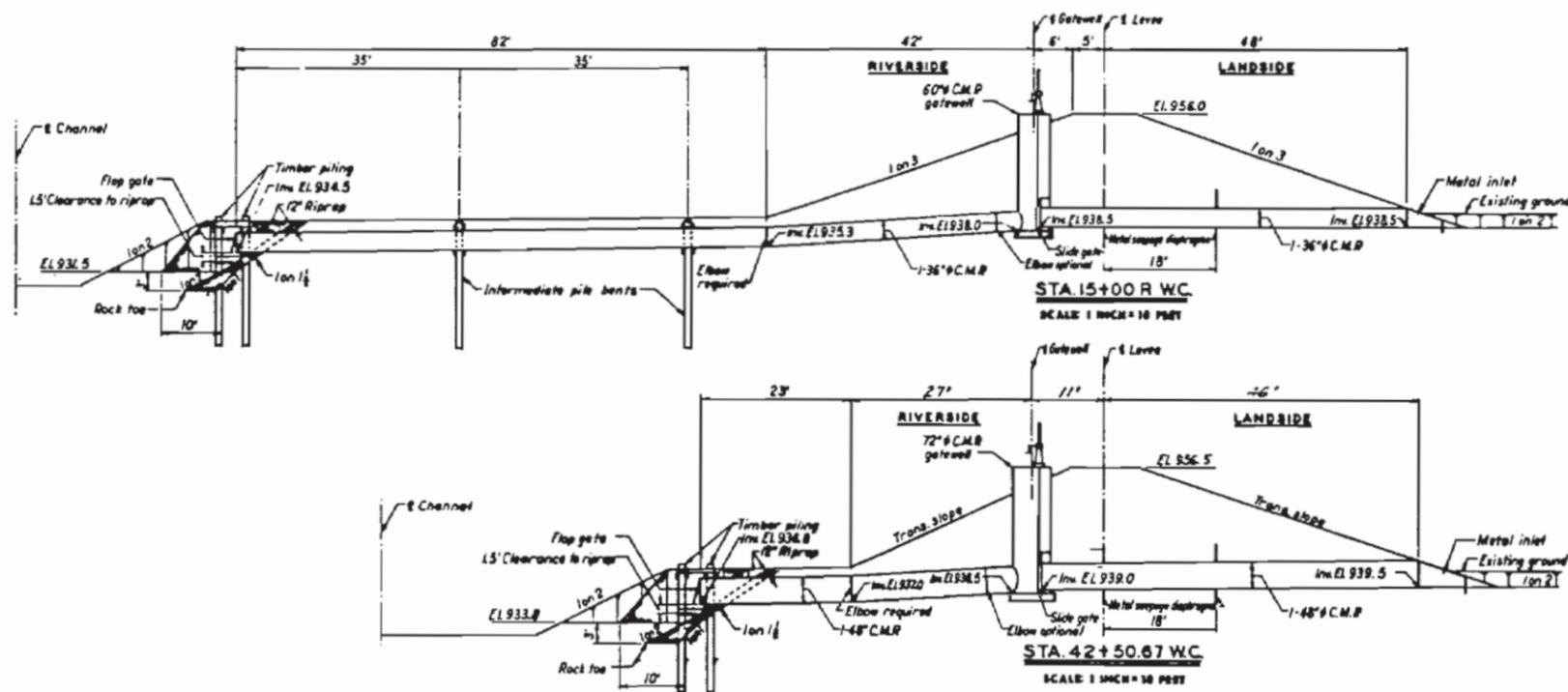
# Project #111146 - DR 4421 IA

Location Map of Washout of Levee and Flood Control Gate  
Waubonsie Levee District  
GPS:40.8804, -95.80389

## Legend

- Bartlett
- 📌 Major Washout- Control Gate





PLAN OF OUTLET  
STA. 15+00 W.C. AND STA. 42+50.67 W.C.  
SCALE 1 INCH = 10 FEET

GENERAL NOTES:

- All elevations shown refer to feet above M.S.L., 1929 general adjustment.

DRAINAGE STRUCTURE SCHEDULE															
STATION	ELEVATIONS			CORR. METAL PIPE			DIAPHRAGMS		FLAP GATES		SLIDE GATES		ELBOW		
	TOP OF LEVEL	INLET INVERT	OUTLET INVERT	NO.	DIA. INCHES	GAGE TOTAL LENGTH FEET	NO.	SIZE FT.-IN. SQUARE	NO.	SIZE INCHES	MIN. FACE PRESS. HEAD FEET	NO.	SIZE INCHES	MIN. FACE PRESS. HEAD FEET	NO. & SIZE
15+00RWC	956.0	938.5	934.5	1	36	181	2	8-4	1	36	20	1	36	20	1-36"Ø
42-50.67WC	956.5	938.5	936.8	1	48	108	2	8-4	1	48	20	1	48	20	1-48"Ø

THIS DRAWING HAS BEEN REDUCED TO ONE-THIRD THE ORIGINAL SCALE.



THIS PLAN APPROXIMATE CONTRACT NO. DA-55-966-100 MODIFICATION NO.

2-22-46	Revised for 1946 O&M Manual Update	A.M.	
7-9-54	REVISED TO SHOW "AS-BUILT" CONDITIONS.		
REVISIONS			
U.S. ARMY ENGINEER DISTRICT, OMAHA ENGINEER OF DISTRICTS OMAHA, NEBRASKA			
DESIGNED BY S.L.R.	MISSOURI RIVER		
DRAWN BY S.L.R.	AGRICULTURAL LEVEES,		
CHECKED BY S.L.R.	UNIT L-594		
APPROVED BY S.L.R.	DRAINAGE STRUCTURES		
	SECTIONS		
	DATE: APRIL 1953		
	DRAWN AS SHOWN: APRIL 1953		
	DRAWING NUMBER: MR 594-1-311E.1		



**FIGURE C-3-5: O&M-L-594-DETAIL MAP "C"**

LEVEE SYSTEM/SEGMENT:  
**L-594 - Missouri River LB**

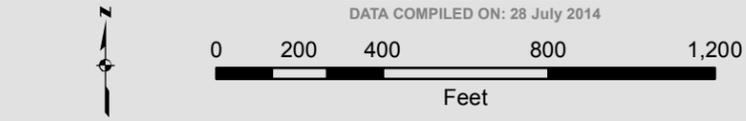
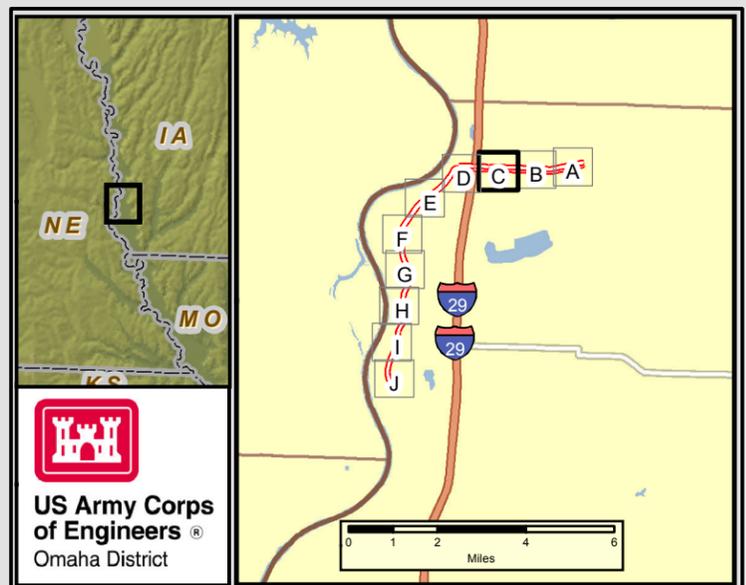
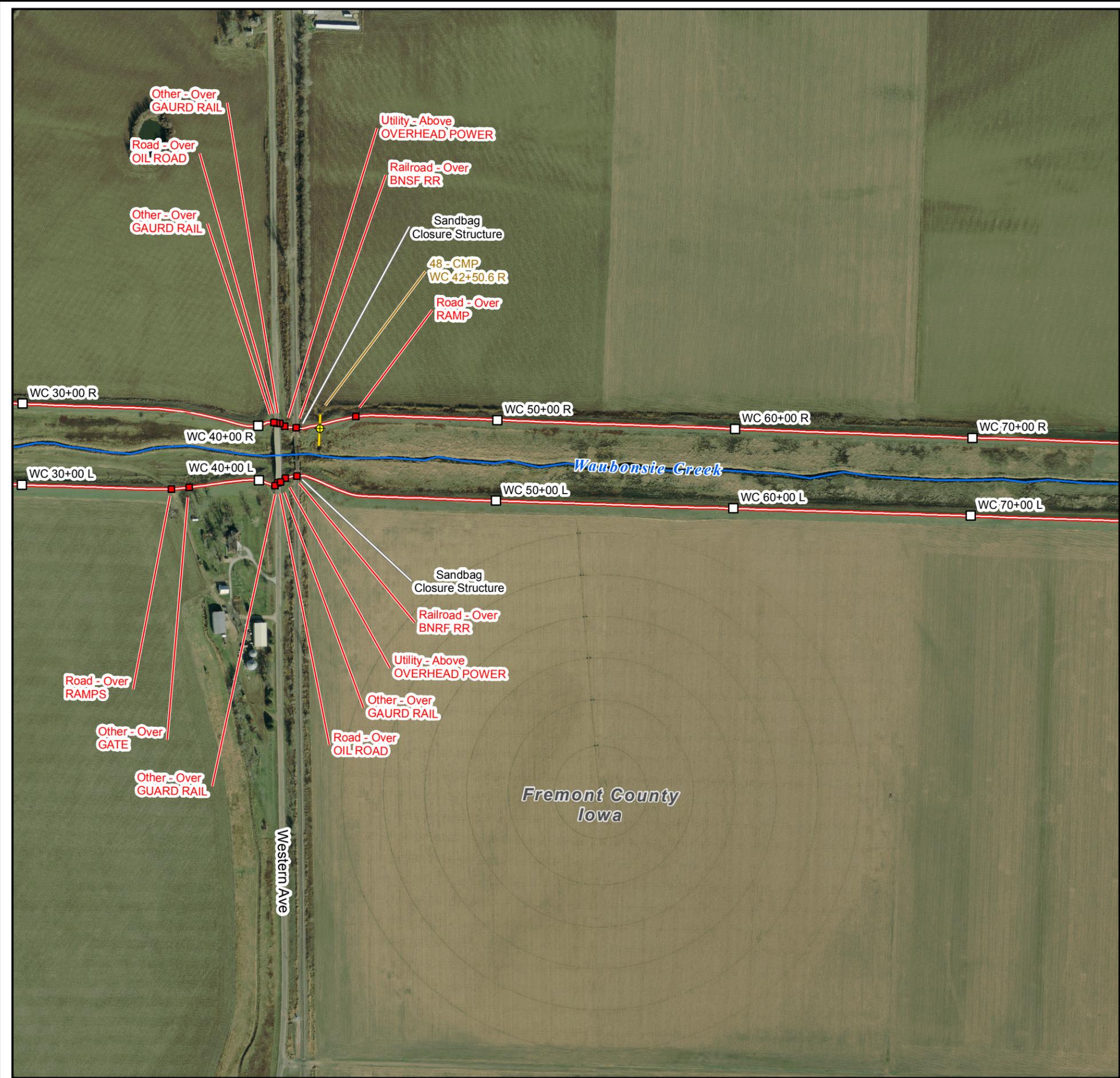
LEVEE FEDERAL AUTHORIZATION NAME:  
**Missouri River Levee Unit L-594**

LEVEE FEDERAL AUTHORIZATION TYPE:  
**USACE Federally constructed, turned over to public sponsor operations and maintenance**

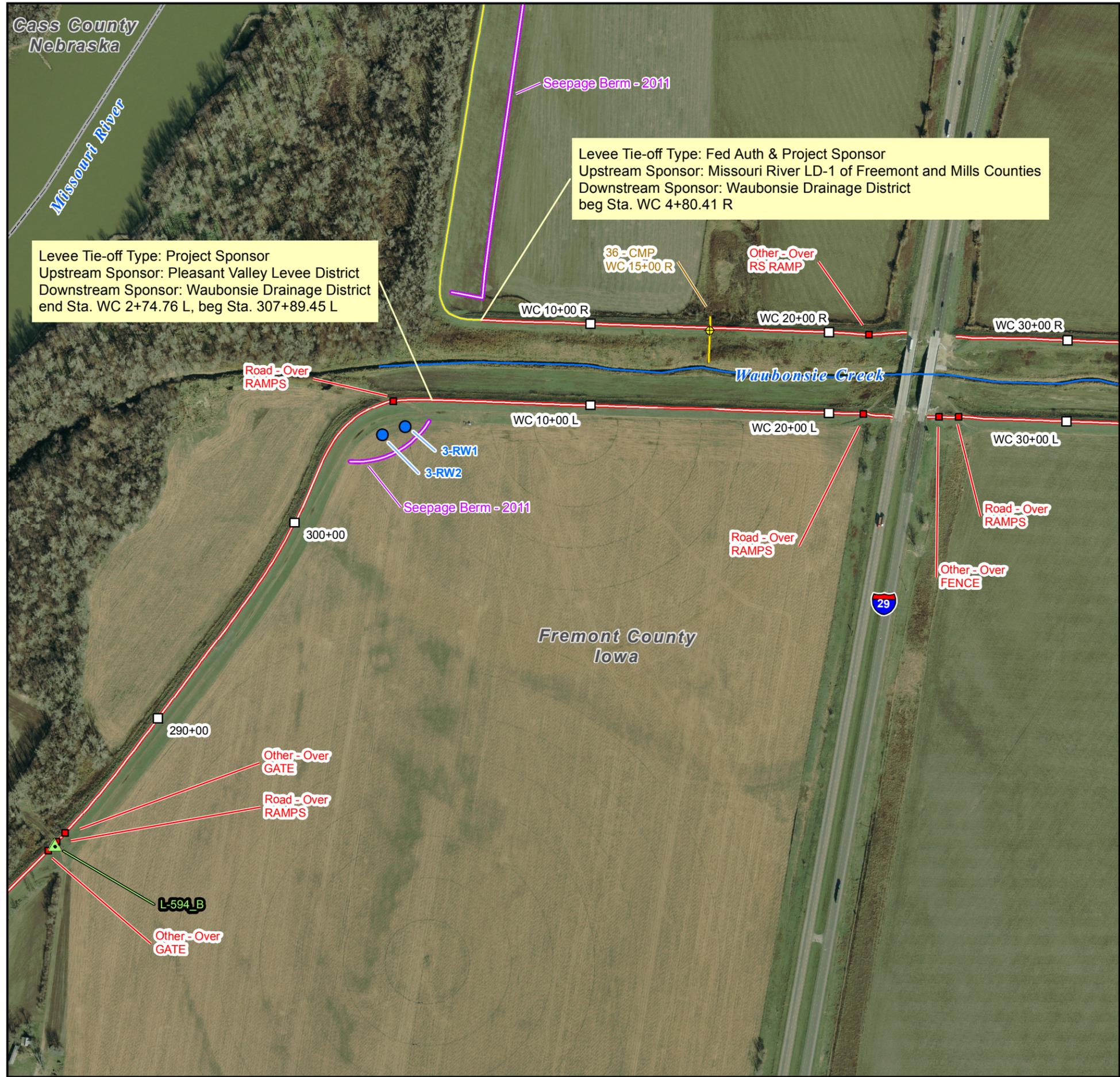
CONSTRUCTION END DATE:  
**22 APRIL 1964**

MAP FILE NAME:  
**Fig\_C-3-5\_Detail\_L-594 - Missouri River LB**

**Orthoimagery Source:**  
 USACE Contract Number: W9128f-08-D-003  
 USACE Requisition/Reference Number: TO 0014  
 Contractor: Woolpert, Inc., Fairview Heights, Illinois  
 Acquisition Date: November 2012



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Levee Tie-off Type: Project Sponsor  
 Upstream Sponsor: Pleasant Valley Levee District  
 Downstream Sponsor: Waubonsie Drainage District  
 end Sta. WC 2+74.76 L, beg Sta. 307+89.45 L

Levee Tie-off Type: Fed Auth & Project Sponsor  
 Upstream Sponsor: Missouri River LD-1 of Fremont and Mills Counties  
 Downstream Sponsor: Waubonsie Drainage District  
 beg Sta. WC 4+80.41 R

**FIGURE C-3-6: O&M-L-594-DETAIL MAP "D"**

LEVEE SYSTEM/SEGMENT:  
**L-594 - Missouri River LB**

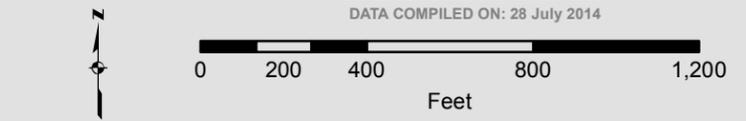
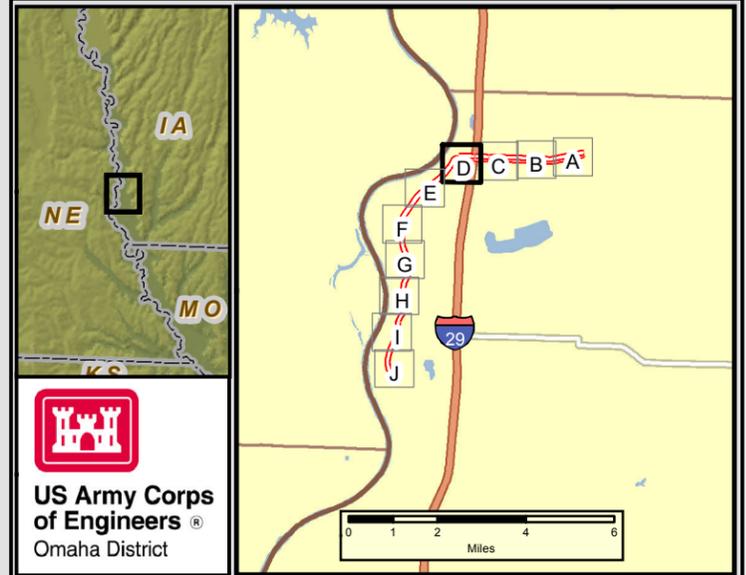
LEVEE FEDERAL AUTHORIZATION NAME:  
**Missouri River Levee Unit L-594**

LEVEE FEDERAL AUTHORIZATION TYPE:  
**USACE Federally constructed, turned over to public sponsor operations and maintenance**

CONSTRUCTION END DATE:  
**22 APRIL 1964**

MAP FILE NAME:  
**Fig\_C-3-6\_Detail\_L-594 - Missouri River LB**

**Orthoimagery Source:**  
 USACE Contract Number: W9128f-08-D-003  
 USACE Requisition/Reference Number: TO 0014  
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 Acquisition Date: November 2012



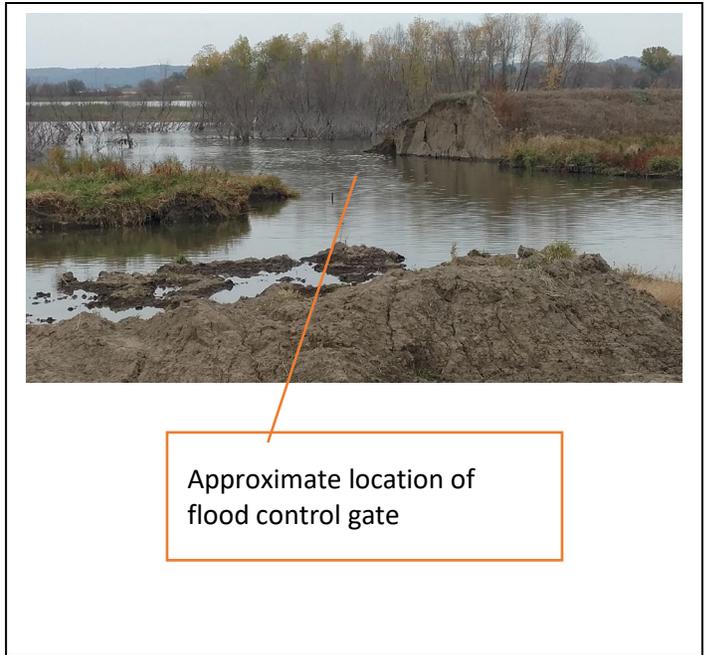
DATA COMPILED ON: 28 July 2014

Disclaimer: The United States Government and USACE furnishes this data and the recipient accepts and uses it with the express understanding that the Government makes no warranties, expressed, or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the information and data furnished. The United States shall be under no liability whatsoever to any person by reason of any use made thereof. Data displayed on this map are approximations derived from GIS layers and should not be used in place of survey data or legal land descriptions.

<b>SITE INSPECTION PHOTO PAGE</b>		<b>DISASTER:</b> DR – 4421 IA		<b>APPLICANT (FIPS#):</b> 071-UCWSS-00 Waubonsie Levee District	
<b>INSPECTION DATE:</b> 11/06/2019	<b>WORK ORDER #:</b> 51981	<b>CATEGORY:</b> D	<b>COUNTY:</b> Fremont	<b>APPLICANT ADDRESS:</b>	
<b>SITE INSPECTOR(S):</b> <b>Curtis Burns &amp; Mark Brinkley</b>		<b>DAMAGE # / DAMAGE NAME:</b> Two flood control gates DI# 337347		<b>GPS COORDINATES:</b> 40.880204,-95.793968	

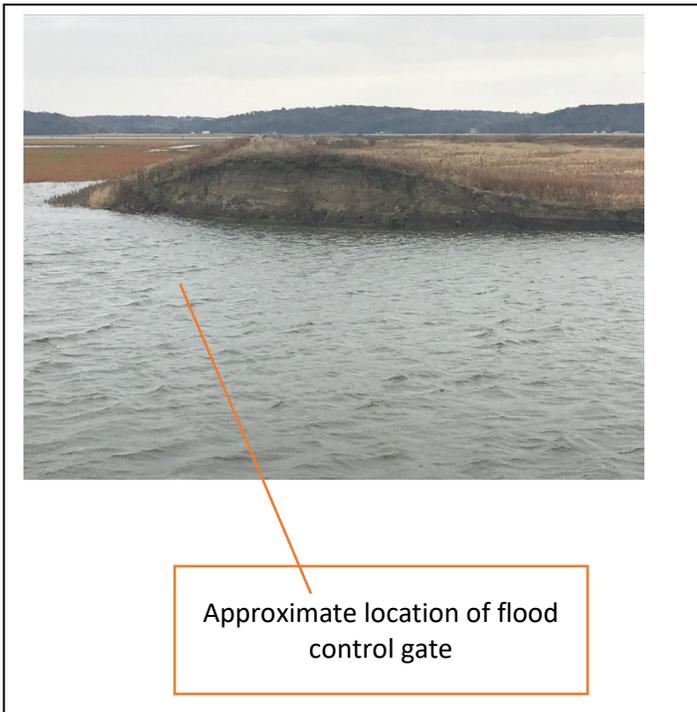


Photo #1. Typical Example of flood control gate tower top, this is not one of the ones destroyed



Approximate location of flood control gate

Photo #2. Site #3, Levee washout destroyed flood gate structure GPS:40.880422,-95.803600



Approximate location of flood control gate

Photo #3. Site #1 Taken from railroad looking east, the flood control gate completely washed away.

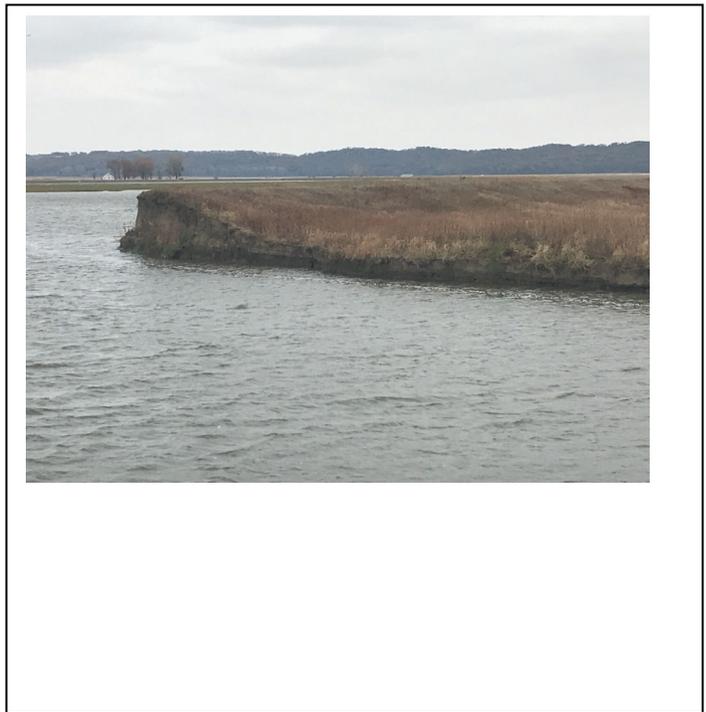


Photo #4. Site #1 Photo taken from railroad looking Northeast, flood control gate washed away.

