

1



REPLY TO  
ATTENTION OF

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ENVIRONMENTAL ASSESSMENT

EMERGENCY STREAMBANK PROTECTION  
SOUTH RACCOON RIVER  
8-INCH WATER SUPPLY LINE

STUART, IOWA

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OCTOBER 1988

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ENVIRONMENTAL ASSESSMENT  
 EMERGENCY STREAMBANK PROTECTION  
 SOUTH RACCOON RIVER  
 8-INCH WATER SUPPLY LINE

STUART, IOWA

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A Pertinent Correspondence

ATTACHMENTS:

Finding Of No Significant Impact (FONSI)  
 Distribution List



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ENVIRONMENTAL ASSESSMENT  
EMERGENCY STREAMBANK PROTECTION  
SOUTH RACCOON RIVER  
8-INCH WATER SUPPLY LINE

STUART, IOWA

I. MAJOR FINDINGS AND CONCLUSIONS.

The purpose of this study was to assess various measures to provide streambank protection along the left descending (i.e., north) bank of the South Raccoon River in Dallas County, Iowa. A water pipe, which conveys domestic water to Stuart, Iowa, in neighboring Guthrie County, underlies the riverbank and riverbed and is being threatened by bank erosion. The site, which is about one-half mile downstream from the Highway 6 bridge and about 2 miles southeast of Redfield, Iowa, is shown on Plate 1 - General Vicinity Map.

Concrete-Filled Mattress, Riprap Protection, and No Action were considered as alternatives to control the erosion at the study site. Of these alternatives, Riprap Protection was chosen as the selected plan because of its lower construction cost and because it was more environmentally sound.

The selected plan entails grading and shaping 150 linear feet of the eroded riverbank (75 feet on either side of the buried water line) to provide a uniform slope of 1V on 2H, and placing an 18-inch layer of Iowa Class "D" riprap as shown on plates 2 and 3. An estimated 600 tons (i.e., 400 cubic yards) of graded riprap is needed to construct the streambank protection project.

Approximately 142 cubic yards of material will be placed below the ordinary high water elevation of 901.5 feet National Geodetic Vertical Datum (NGVD).

An environmental review of the proposed action indicates that the proposed project would not result in significant effects on the environment. Therefore, an environmental impact statement will not be prepared.

II. RELATIONSHIP TO ENVIRONMENTAL REQUIREMENTS.

The proposed action would comply with Federal environmental laws, Executive Orders and policies, and State and local laws and policies, including the Clean Air Act, as amended; the Clean Water Act, as amended; the Endangered Species Act of 1973, as amended; the Fish and Wildlife Coordination Act of 1958, as amended; the Land and Water Conservation Fund Act of 1965, as amended; the National Historic Preservation Act of 1966, as amended; the

National Environmental Policy Act of 1969, as amended; Executive Order 11988 - Floodplain Management; and Executive Order 11990 - Protection of Wetlands. The proposed action would not result in the conversion of farmland to non-agricultural uses. Therefore, the Farmland Protection Policy Act of 1981 does not apply to this project.

### III. ENVIRONMENTAL SETTING.

The project area is the left descending (i.e., north) bank of the South Raccoon River in Dallas County, Iowa. The riverbanks in the project area are eroded, steep, and approximately 12 feet high during normal river levels. Where the pipeline was laid, the bankline appears to have been graded to a more moderate slope. The project site and the upstream bankline are devoid of woody vegetation. Downstream from the project site, the bankline and areas back from the river are wooded. The project site and the upstream banks are bordered by a farm field.

There are no federally listed threatened or endangered species reported for Dallas County, Iowa.

### IV. ENVIRONMENTAL EFFECTS.

No significant adverse impacts would result from construction of the proposed project. As specified in Section 122 of the 1970 Rivers and Harbors Act, potential project impacts on the parameters listed in table 1 (Environmental Impact Assessment Matrix) were considered in arriving at a final determination. Aspects of the project requiring processing under Section 404 of the Clean Water Act are covered by nationwide permit. Individual processing under Section 404 of the Act is thus not required, and a public notice will not be issued. In conjunction with the nationwide permit, the State of Iowa has pre-issued certification under Section 401 of the Act. Application for Section 401 Certification is thus not required.

The proposed project will stabilize approximately 150 feet of bankline using riprap. No woody vegetation will be removed, and the riprapped shoreline will be physically and chemically stable and noncontaminating. The cracks, crevices, and undersurfaces of the riprapped shoreline will provide attachment sites, shelter, and feeding areas for aquatic organisms and small fish and thus will be a more hospitable aquatic environment than the eroding shoreline.

No federally listed threatened or endangered species are reported for Dallas County, Iowa. The proposed bank stabilization project is therefore anticipated to have no effect on any federally listed threatened or endangered species. Concurrence with this determination by the U.S. Fish and Wildlife Service can be found in a Record of a Telephone Conversation, dated September 14, 1987, in Appendix A - Pertinent Correspondence.

TABLE 1

Environmental Impact Assessment Matrix

Name of Parameter	Magnitude of Probable Impact					
	Increasing Beneficial Impact		No Appreciable Effect		Increasing Adverse Impact	
	Substantial	Minor	Substantial	Minor	Substantial	Minor
A. Social Effects						
1. Noise Levels					X	
2. Aesthetic Values						X
3. Recreational Opportunities					X	
4. Transportation					X	
5. Public Health and Safety		X				
6. Community Cohesion (Sense of Unity)		X				
7. Community Growth and Development				X		
8. Business and Home Relocations		X				
9. Existing/Potential Land Use		X				
10. Controversy					X	
B. Economic Effects						
1. Property Values		X				
2. Tax Revenues		X				
3. Public Facilities and Services		X				
4. Regional Growth					X	
5. Employment		X				
6. Business Activity		X				
7. Farmland/Food Supply					X	
8. Commercial Navigation					X	
9. Flooding Effects					X	
10. Energy Needs and Resources					X	
C. Natural Resource Effects						
1. Air Quality						X
2. Terrestrial Habitat					X	
3. Wetlands					X	
4. Aquatic Habitat				X		
5. Habitat Diversity and Interspersion					X	
6. Biological Productivity					X	
7. Surface Water Quality					X	
8. Water Supply		X				
9. Groundwater					X	
10. Soils					X	
11. Threatened and Endangered Species					X	
D. Cultural Resources						
1. Historic Architectural Values					X	
2. Prehistoric and Historic Archeological Values					X	

A Rock Island District staff archeologist conducted an archeological reconnaissance survey of the project area on September 14, 1987. At the time of the survey, the adjacent field was in mature corn, while the shoreline was overgrown with thick, non-woody vegetation. Visibility along the face of the cut bank was excellent. Over 10 feet of vertical exposure along the entire length of the project was inspected for cultural material. No cultural material was found along the cut bank or in the field immediately adjacent to the cut bank. Based on the results of this fieldwork, it is our opinion that no significant historic properties are present within the proposed project area. A letter dated October 13, 1987 (Appendix A - Pertinent Correspondence) from the Iowa State Historic Preservation Office (SHPO) concurs with this determination.

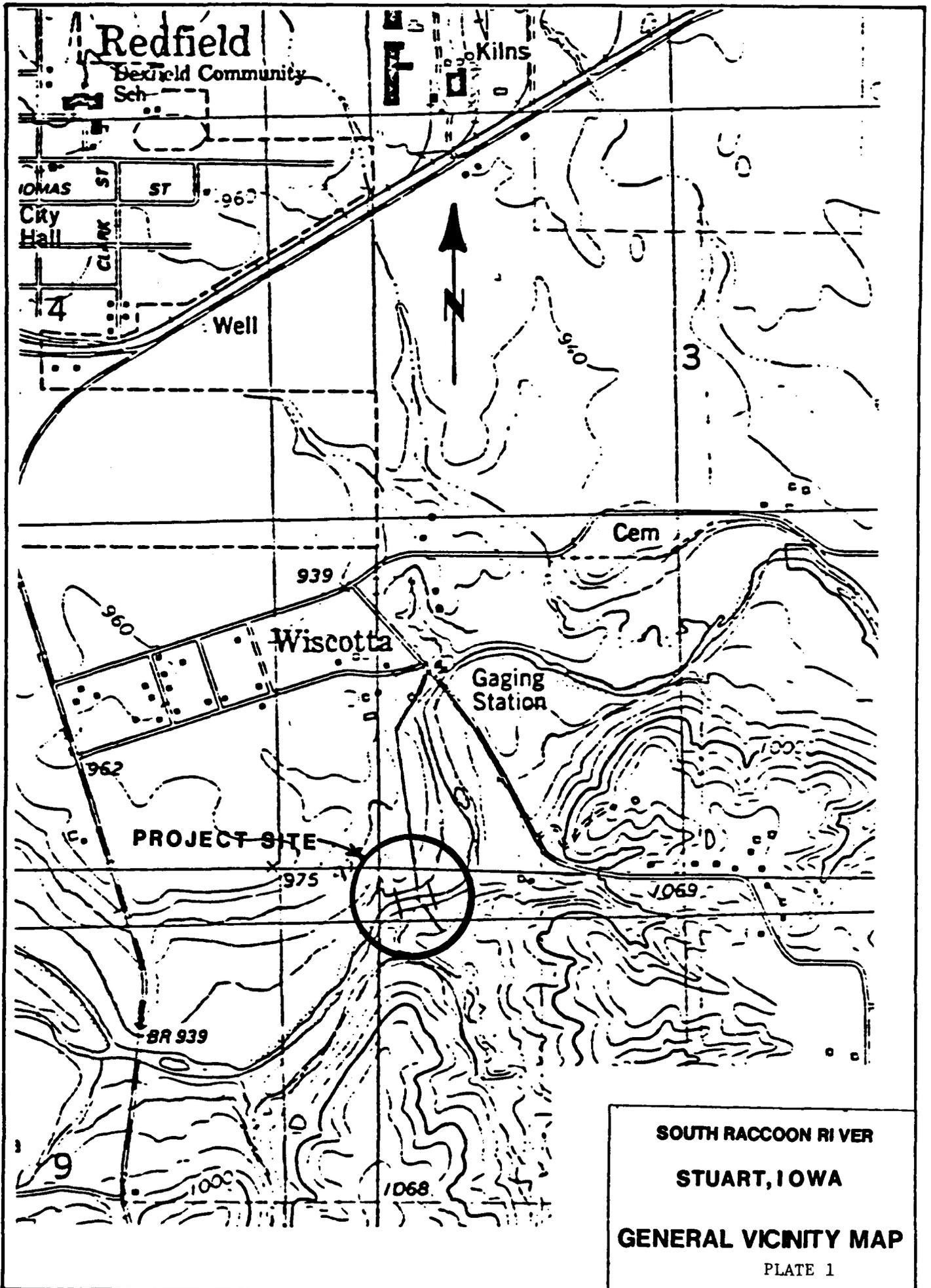
The proposed project would not encourage development in the floodplain and is in compliance with Executive Order 11988, Floodplain Management. No wetlands will be adversely affected; therefore, this project is in compliance with Executive Order 11990, Protection of Wetlands.

#### V. COORDINATION.

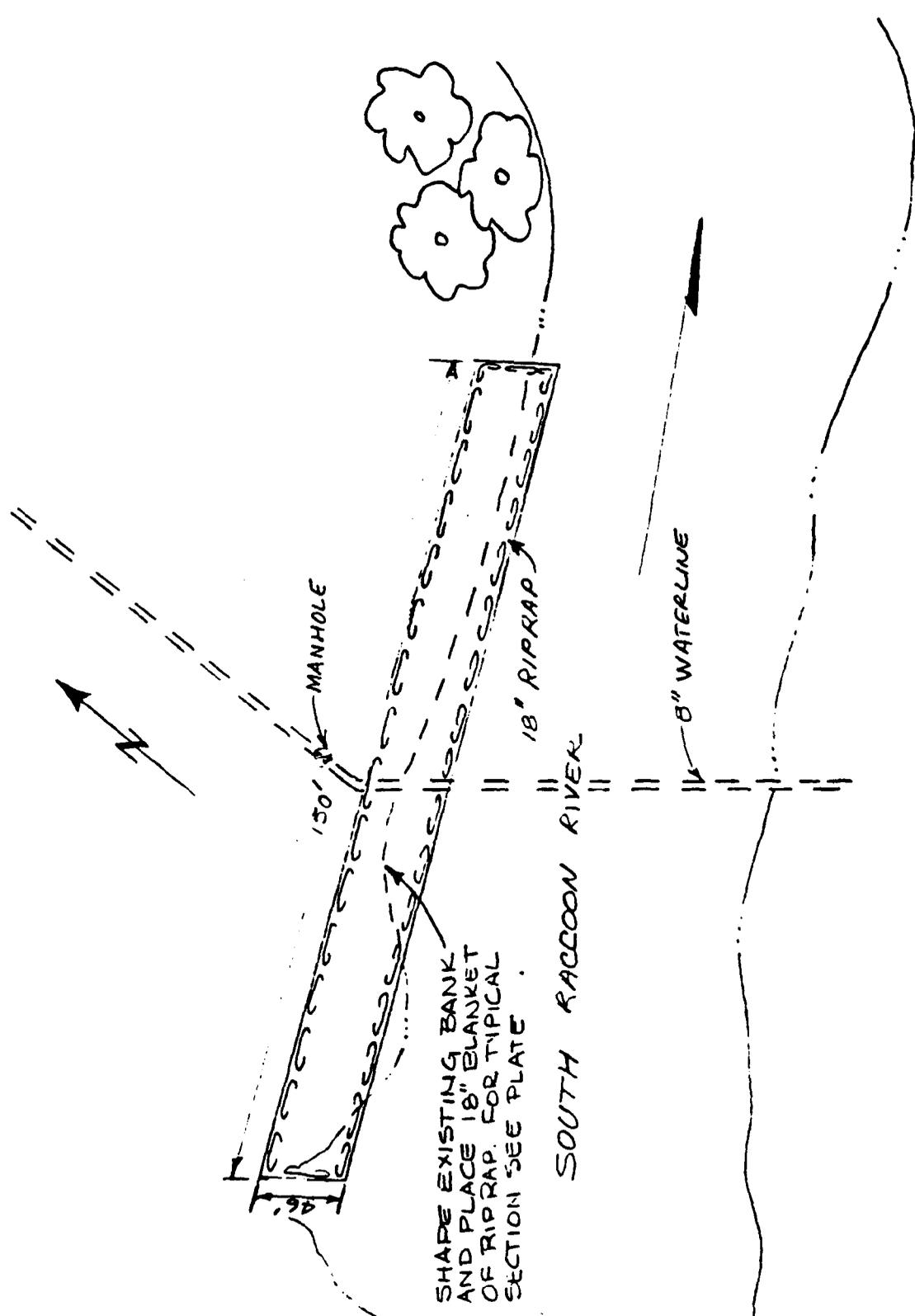
In compliance with the Fish and Wildlife Coordination Act, project plans have been coordinated with the U.S. Fish and Wildlife Service and the Iowa Department of Natural Resources (Fish and Wildlife). Project plans were also coordinated with the U.S. Environmental Protection Agency. Records of Telephone Conversations with these agencies can be found in Appendix A - Pertinent Correspondence.

Project plans were coordinated with the SHPO. The SHPO's letter dated October 13, 1987, with the determination that there are no historic properties which might be affected by the proposed undertaking, can be found in Appendix A - Pertinent Correspondence.

Section 14 studies were not selected for review by the State of Iowa under Executive Order 12372. However, the study was coordinated with the Iowa Department of Economic Development under the intergovernmental review process.



**SOUTH RACCOON RIVER**  
**STUART, IOWA**  
**GENERAL VICINITY MAP**  
PLATE 1



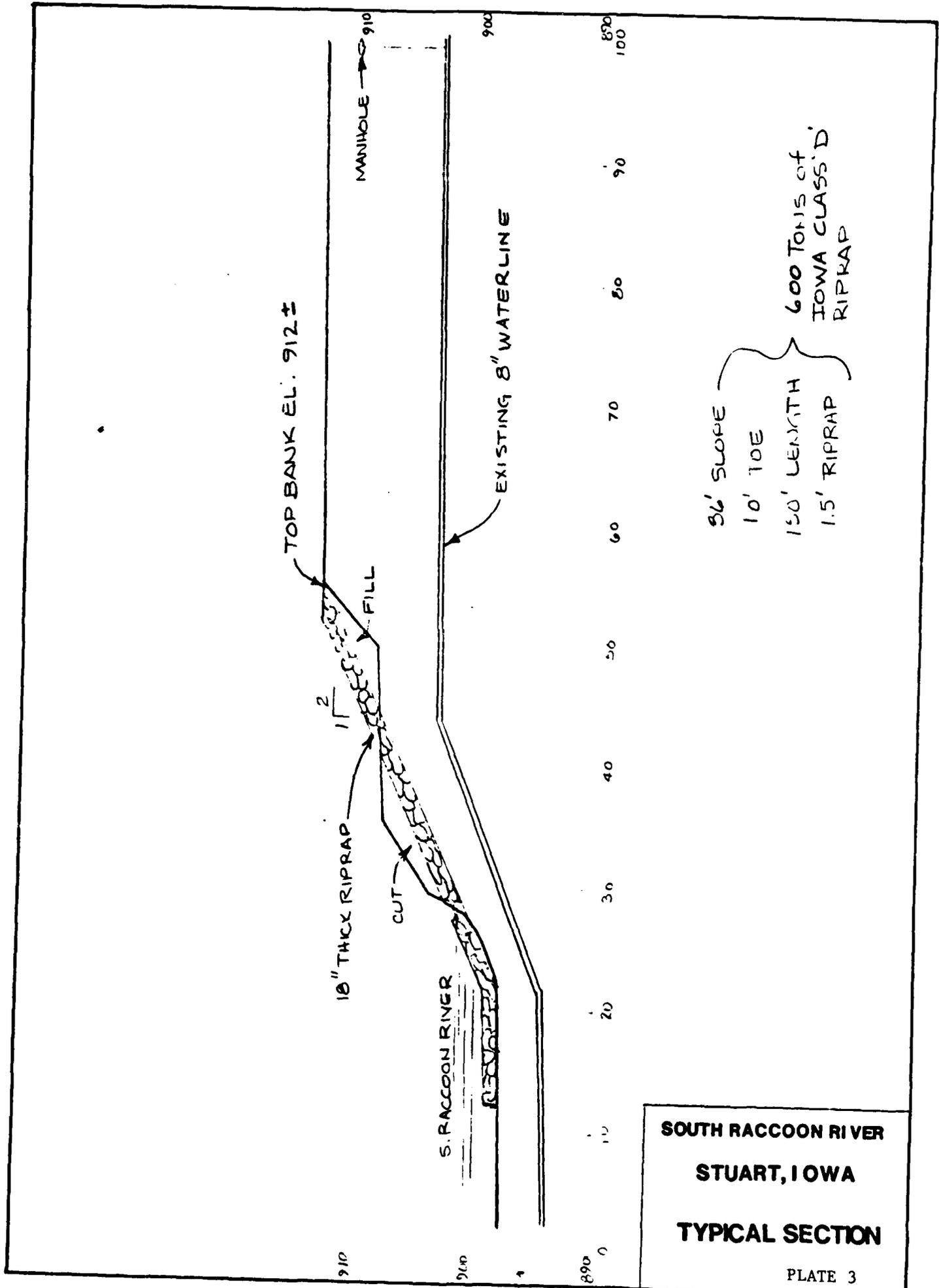
SHAPE EXISTING BANK  
 AND PLACE 18" BLANKET  
 OF RIPRAP. FOR TYPICAL  
 SECTION SEE PLATE 1.

SOUTH RACCOON RIVER

**SOUTH RACCOON RIVER  
 STUART, IOWA**

**PLAN**

PLATE 2



36' SLOPE  
 10' TOE  
 150' LENGTH  
 1.5' RIPRAP  
 600 TONS OF  
 IOWA CLASS 'D'  
 RIPRAP

**SOUTH RACCOON RIVER**  
**STUART, IOWA**  
**TYPICAL SECTION**  
 PLATE 3

PERTINENT CORRESPONDENCE

A

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X

A

CONVERSATION RECORD

TIME 1315 Hrs

DATE 14 SEP 87

TYPE  VISIT  CONFERENCE  TELEPHONE  
 INCOMING  OUTGOING

ROUTING	
NAME/SYMBOL	INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU  
 WAYNE FISHER

ORGANIZATION (Office, Dept., Bureau, etc.)  
 U.S. FWS, Rock Island Field Office

TELEPHONE NO.  
 (309) 793-5800

SUBJECT STUART, IOWA; DALLAS COUNTY, SOUTH RAACON RIVER, SECT 14  
 PROJECT TO PROTECT A WATER PIPELINE.

SUMMARY

- ① MR FISHER HAD CALLED OUR OFFICE FOR A DIFFERENT REASON AND I TOOK ADVANTAGE OF THE OPPORTUNITY TO DISCUSS THE SUBJECT PROJECT.
- ② I DESCRIBED THE LOCATION AND THE PROPOSED PROJECT TO MR. FISHER INCLUDING THE IMPACTS AND THAT BECAUSE OF THE EMERGENCY NATURE OF THE PROJECT THERE WOULD BE NO ENVIRONMENTAL ASSESSMENT PREPARED. I ALSO INFORMED HIM THAT THE ACTION WAS COVERED BY NATION WIDE PERMIT, THUS, A PUBLIC NOTICE UNDER SECTION 404 OF THE CLEAN WATER ACT WOULD NOT BE ISSUED.
- ③ MR FISHER SAID IT DIDN'T SOUND LIKE THE PROJECT WOULD RESULT IN ANY SIGNIFICANT ENVIRONMENTAL IMPACTS.
- ④ DURING A LATER CALL WE DISCUSSED FEDERALLY LISTED ENDANGERED SPECIES. MR FISHER CONCURRED THAT SINCE NO FEDERALLY LISTED SPECIES WERE REPORTED FOR DALLAS COUNTY THE PROJECT SHOULD HAVE NO EFFECT ON ANY FEDERALLY LISTED ENDANGERED SPECIES.

ACTION REQUIRED

THIS RECORD WILL BECOME PART OF PERTINENT CORRESPONDENCE

NAME OF PERSON DOCUMENTING CONVERSATION  
 BOB VANDERSACK

SIGNATURE  
 Robert C. Vandeyack

DATE  
 14 SEP 87

ACTION TAKEN

SIGNATURE

TITLE

DATE

# CONVERSATION RECORD

TIME

DATE

21 SEP 87

TYPE

 VISIT CONFERENCE TELEPHONE INCOMING OUTGOING

ROUTING

NAME/SYMBOL

INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

KEN HERRING

ORGANIZATION (Office, Dept., Bureau, etc.)

IOWA DNR, DIST. WILDLIFE BIOLOGIST

TELEPHONE NO.

(515) 993-3911

SUBJECT

SOUTH RACCOON RIVER (STUART, IA), PROTECTION OF WATER SUPPLY PIPE, SECT 14

SUMMARY

(1) I DESCRIBED THE PROPOSED PROJECT, THE PROJECT AREA, AND THE ANTICIPATED IMPACTS TO MR. HERRING.

(2) AFTER A DISCUSSION OF THE PROJECT MR HERRING SAID HE DIDN'T THINK HIS AGENCY WOULD HAVE ANY OBJECTIONS TO THE PROJECT.

ACTION REQUIRED

THIS RECORD WILL BECOME A PART OF PERTINENT CORRESPONDENCE

NAME OF PERSON DOCUMENTING CONVERSATION

BOB VANDERSACK

SIGNATURE

Robert C. Vanderjick

DATE

22 SEP 87

ACTION TAKEN

SIGNATURE

TITLE

DATE

50271-101

U.S. G.P.O. 1985-485-494

CONVERSATION RECORD

OPTIONAL FORM 271 (12-76)  
DEPARTMENT OF DEFENSE

# CONVERSATION RECORD

TIME 1100 HRS

DATE 22 SEP 87

TYPE

VISIT

CONFERENCE

TELEPHONE

INCOMING

OUTGOING

ROUTING

NAME/SYMBOL	INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

BOB BARBER

ORGANIZATION (Office, dept., bureau, etc.) US EPA, REGION III  
KANSAS CITY

TELEPHONE NO. (913)  
236-2823

SUBJECT

SOUTH RACON RIVER (SECT 14), PROTECTION OF WATER SUPPLY PIPE TO STUART, IOWA.

SUMMARY

① I DISCUSSED THE PROPOSED PROJECT WITH MR BARBER AND DESCRIBED THE PROJECT AREA, THE PROPOSED PROJECT, AND THE ANTICIPATED IMPACTS.

② MR BARBER DIDN'T THINK HIS AGENCY WOULD HAVE ANY OBJECTIONS TO THE PROJECT.

ACTION REQUIRED

THIS RECORD WILL BECOME A PART OF PERTINENT CORRESPONDENCE.

NAME OF PERSON DOCUMENTING CONVERSATION

BOB VANDERJACK

SIGNATURE

Robert C. Vanderjack

DATE

22 SEP 87

ACTION TAKEN

SIGNATURE

TITLE

DATE

# CONVERSATION RECORD

TIME \_\_\_\_\_

DATE 8 Oct 87

TYPE

 VISIT CONFERENCE TELEPHONE INCOMING OUTGOING

ROUTING

NAME/SYMBOL INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

Tom PUTNAM

ORGANIZATION (Office, Dept., Bureau, etc.)

IOWA DNR.  
FISHERIES BIOLOGIST

TELEPHONE NO.

(515)  
432-2823

SUBJECT

SOUTH RACON RIVER, SECT. 14, PROTECTION OF  
WATER SUPPLY PIPE TO STUART, IOWA.

SUMMARY

MR PUTNAM HAD VISITED THE PROJECT SITE AND  
THOUGHT THE PROJECT AS PROPOSED DID NOT RAISE  
ANY SUBSTANTIAL ENVIRONMENTAL CONCERNS.

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION

BOB VANDERJACK

SIGNATURE

Robert C. Vandeyack

DATE

14 Oct 87

ACTION TAKEN

SIGNATURE

TITLE

DATE



# State Historical Society of Iowa

The Historical Division of the Department of Cultural Affairs

October 13, 1987

Dudley M. Hanson, P.E.  
Chief, Planning Division  
Rock Island District Corps of Engineers  
Clock Tower Building  
P.O. Box 2004  
Rock Island, Illinois 61204-2004

RE: COE - GUTHRIE COUNTY - STABILIZE BANKS OF SOUTH RACCOON  
CREEK NW1/4 NW1/4 OF SECTION 10, T78N-R29W - DRAFT DEFINITE  
PROJECT FOR SECTION 14 EMERGENCY STREAMBANK PROTECTION

Dear Mr. Hanson:

Based on the information you provided, we find that there are no historic properties which might be affected by the proposed undertaking. Therefore, we recommend project approval.

However, if the proposed project work uncovers an item or items which might be of archeological, historical or architectural interest, or if important new archeological, historical or architectural data come to light in the project area, you should make reasonable efforts to avoid or minimize harm to the property until the significance of the discovery can be determined.

Should you have any questions or if the office can be of further assistance to you, please contact Review & Compliance program at 515-281-8743.

Sincerely,

  
Kay Simpson  
Review & Compliance Program  
Bureau of Historic Preservation

/mtm

402 Iowa Avenue  
Iowa City, Iowa 52240  
(319) 335-3916

Capitol Complex  
Des Moines, Iowa 50319  
(515) 281-5111

Montauk  
Box 372  
Clermont, Iowa 52135  
(319) 423-7173

FINDING OF NO SIGNIFICANT IMPACT

In accordance with the National Environmental Policy Act, the Rock Island District, U.S. Army Corps of Engineers, has assessed the environmental impacts of the following project:

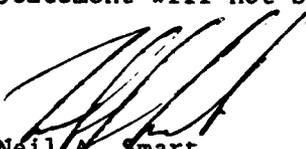
Emergency Streambank Protection  
South Raccoon River  
8-Inch Water Supply Line  
Stuart, Iowa

The intent of this project is to provide emergency bank protection along the left bank of the South Raccoon River in Dallas County about 2 miles southeast of Redfield, Iowa. The proposed project would prevent further deterioration of the existing bank. The project involves grading and shaping 150 linear feet of the eroded riverbank and placing an 18-inch layer of riprap. This finding of no significant impact is based on the following factors: the project would have no impacts or minor impacts on fish and wildlife resources and on air and water quality; the project would have no effects or minor effects on the social environment; and the project would have no effect upon known historic or other cultural resources.

The environmental review process indicates that the proposed action does not constitute a major Federal action significantly affecting the environment. Therefore, an environmental impact statement will not be prepared.

1 Dec 58

Date

  
Neil A. Smart  
Colonel, U.S. Army  
District Engineer

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EMERGENCY STREAMBANK PROTECTION  
SOUTH RACCOON RIVER  
8-INCH WATER SUPPLY LINE  
STUART, IOWA

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WASHINGTON DC 20235

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18

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IOWA DEPT OF NATURAL RESOURCES, 123 NORTH CAPITOL STREET  
IOWA CITY IA 52240

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KANSAS CITY MO 64106

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100 CENTENNIAL MALL, NORTH FEDERAL BUILDING  
LINCOLN NE 68508

REGIONAL FORESTER, FOREST SERVICE  
US DEPT OF AGRICULTURE, 310 W WISCONSIN AVE-SUITE 500  
MILWAUKEE WI 53203

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STATE CAPITOL, DES MOINES, IA 50319

MR STEVEN R MC CANN - DIRECTOR, IOWA DEPT OF ECONOMIC DEVELOPMENT  
DIVV OF COMMUNITY PROGRESS, 200 EAST GRAND  
DES MOINES IA 50319

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MR LARRY WILSON - DIRECTOR, DEPT OF NATURAL RESOURCES  
WALLACE STATE OFFICE BLDG, 900 EAST GRAND AVENUE  
DES MOINES IA 50319

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BOX 11, WAUKEE IA 50263

HONORABLE WAYNE H MCKINNEY JR, IOWA REPRESENTATIVE-89TH DISTRICT  
RR 2 - BOX 224, WAUKEE IA 50263

HONORABLE BOB SKOW, IOWA REPRESENTATIVE-90TH DISTRICT  
604 DIVISION ST, GUTHRIE CENTER IA 50115

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          CENCR-ED-D              CENCR-OD  
          CENCR-ED-H              CENCR-IM-C (3)  
          CENCR-PD                CENCR-PA