



US Army Corps  
of Engineers  
Kansas City District

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KANSAS CITY DISTRICT  
CORPS OF ENGINEERS  
and the  
Steedman Levee District

PL 84-99 - NEPA, Environmental Assessment & Finding of No  
Significant Impact

STEEDMAN LEVEE DISTRICT, ITEM NO. 31A  
EMERGENCY LEVEE REHABILITATION PROJECT

Callaway County, Missouri

December 2005



DEPARTMENT OF THE ARMY  
KANSAS CITY DISTRICT, CORPS OF ENGINEERS  
700 FEDERAL BUILDING  
KANSAS CITY, MISSOURI 64105-2896

## Finding of No Significant Impact

### Steedman Levee District Emergency Levee Repair – PL 84-99 Callaway County, Missouri

#### Project Summary

The U.S. Army Corps of Engineers, Kansas City District (CENWK), in conjunction with the project sponsor, the Steedman Levee District, proposes to construct the Steedman Levee District, Item 31A Emergency Levee Repair Project, under the authority of PL 84-99 of the Flood Control Act of 1944. The project purpose is to rehabilitate the existing Steedman Levee to conditions that existed prior to the Missouri River cresting in the area following substantial rainfall that occurred in January of 2005. The project is located on the left descending riverbank of Auxvasse River (Section 9, Township 45 North, Range 8 West) and the right descending riverbank of Logan Creek (Section 36, Township 46 North, Range 8 West) in Callaway County, Missouri.

The Flood Control Works (FCW) levee was intermittently damaged at levee stations 46+60 to 48+80 and 320+00 to 323+50 following high flows from the January 2005 flood event. The damages consist of severe riverside slides, with total slippage of the riverside foreshore area/high banks. The proposed project consists of the excavation and re-establishment to the two stations as follows:

Station 46+60 to 48+80 (Auxvasse River): The recommended repair alternative is to repair damage using an approximately 630 linear foot long landward setback. The landward levee setback will commence from existing levee station 44+00 and tie into the existing levee station at 50+30. The new levee embankment will have a 10-foot crown width, with a one-foot vertical on three-foot horizontal side slopes. The maximum landward levee setback is approximately 50 feet from the original levee alignment.

Borrow material will be obtained by utilizing portions of the existing levee system (i.e., all available riverward existing levee outside the new landward setback design lines). Additional borrow will be obtained from adjacent landward areas around the southern perimeter of an existing 1995 scour hole area, and positioned within 1,000 feet of the new levee setback. Total cost for this repair was computed to be \$15,623.00.

Station 320+00 to 323+50 (Logan Creek): The recommended repair alternative is to repair damage using approximately 675 linear feet of landward levee setback. Due to the displacement of an existing 15-foot drainage pipe (CMP) at station 322+45, the levee setback will require the installation of a new 70-foot length of 15-foot CMP along with associated appurtenances (i.e., three 24-foot wide connecting bands and flap gates). The landward levee setback will commence from existing levee station 318+55 and tie into the existing levee station at 324+95. The new levee embankment will have a 10-foot crown width, with a one-foot vertical on three-foot horizontal side slopes. The maximum landward levee setback is approximately 50 feet from the original levee alignment.

Borrow material will be obtained by utilizing portions of the existing levee system (i.e., all available riverward existing levee outside the new landward setback design lines). Additional borrow will be obtained from adjacent riverward agricultural lands, within 1,000 feet of the new levee setback. Total cost for this repair was computed to be \$28,701.00.

The borrow areas are located in previously approved/cleared environmental areas. Review of photos and past field survey reports revealed that the proposed borrow areas are located on lands that have been previously disturbed by agricultural activities. The areas affected by the proposed project are open, highly disturbed and in agricultural production. Under current project plans, no trees would be cleared during construction of the proposed levee repair projects or at any borrow areas and haul roads. Borrow areas and the levee rehabilitation will avoid wetlands, timbered riparian, and timbered upland sites. The proposed project's effects would be minimal, primarily temporary in nature, and related to construction.

## Alternatives

Three alternatives were considered. Two build alternatives and the "no action" alternative. Both of the build alternatives would involve the excavation of the failed slope and the reconstruction of the levee embankment. Random borrow material obtained from a near by agricultural area as well as material excavated during construction would be used for this purpose. The three alternatives considered were:

(1) Repair Alternative Number 1; (2) Repair Alternative Number 2 (RECOMMENDED); and (3) the No action alternative.

Alternative 1 was deemed technically feasible but would result in greater environmental impacts than the proposed plan due to the construction of stone toe trench revetments and additional materials required for these features. Moreover, a greater amount of borrow material was calculated to be needed to construct the project thereby requiring longer construction periods and corresponding construction related impacts. Additionally, this alternative was not deemed cost effective.

The "No Action" alternative (3) has not been recommended because it would not meet the project purpose of emergency levee repair and would not be sufficient to retain the integrity of the flood protection intended for this project. The "No Action" alternative would have no permanent or temporary construction related impacts.

## Recommended Plan

The recommended plan, Alternative 2, consists of the excavation and re-establishment to the two stations as follows:

Station 46+60 to 48+80 (Auxvasse River): The recommended repair alternative is to repair damage using an approximately 630 linear foot long landward levee setback. The landward levee setback will commence from existing levee station 44+00 and tie into the existing levee station at 50+30. The new levee embankment will have a 10-foot crown width, with a one-foot vertical on three-foot horizontal side slopes. The maximum landward levee setback is approximately 50 feet from the original levee alignment.

Borrow material will be obtained by utilizing portions of the existing levee system (i.e., all available riverward existing levee outside the new landward setback design lines). Additional borrow will be obtained from adjacent landward areas around the southern perimeter of an existing 1995 scour hole area, and positioned within 1,000 feet of the new levee setback. Total cost for this repair was computed to be \$15,623.00

Station 320+00 to 323+50 (Logan Creek): The recommended repair alternative is to repair damage using approximately 675 linear feet of landward levee setback. Due to the displacement of an existing 15-foot drainage pipe (CMP) at station 322+45, the levee setback will require the installation of a new 70-foot length of 15-foot CMP along with associated appurtenances (i.e., three 24-foot wide connecting bands and flap gates). The landward levee setback will commence from existing levee station 318+55 and tie into the existing levee station at 324+95. The new levee embankment will have a 10-foot crown width, with a one-foot vertical on three-foot horizontal side slopes. The maximum landward levee setback is approximately 50 feet from the original levee alignment.

Borrow material will be obtained by utilizing portions of the existing levee system (i.e., all available riverward existing levee outside the new landward setback design lines). Additional borrow will be obtained from adjacent landward areas around the southern perimeter of an existing 1995 scour hole area, and positioned within 1,000 feet of the new levee setback. Total costs for this repair was computed to be \$28,701.00.

The borrow areas are located in previously approved/cleared environmental areas. Review of photos and past field survey reports revealed that the proposed borrow areas are located on lands that have been previously disturbed by agricultural activities. The areas affected by the proposed project are open, highly disturbed and in agricultural production. Under current project plans, no trees would be cleared during construction of the proposed levee repair projects or at any borrow areas and haul roads. Borrow areas and the levee rehabilitation will avoid wetlands, timbered riparian, and timbered upland

sites. The proposed project's effects would be minimal, temporary in nature, and related to construction.

## **Summary of Environmental Impacts**

Project impacts of the recommended plan (Alternative 2) include a minor amount of vegetation clearing (grasses) along the bank to prepare the area for slope excavation and reconstruction. All disturbed areas will be re-seeded and mulched after project completion. Additionally, minor impacts to air quality, noise, and site runoff will occur during project build-out; however, these are short-term unavoidable impacts resulting from construction related activities. The preferred alternative has minimized adverse affects to the environment by maintaining bank slopes at existing levels and avoiding the need for stone toe trench revetment structures thereby reducing the amount of material needed. No agricultural land would be converted to wetlands, and adjacent property owners would not be adversely affected. The re-seeding and mulching of the affected areas following construction would adequately offset these minor adverse effects.

## **Mitigation Measures**

The recommended plan will result in a minor amount of vegetation clearing (grasses) along the banks of the existing Steedman Levee District levees. As described above, all disturbed areas will be re-seeded and mulched after project completion. The impacts to air, noise, and runoff are all minor, temporary in nature, and related to construction. Therefore, no additional mitigation measures are warranted or proposed.

## **Conclusion**

Based on the coordination with the resource agencies, as documented in this Environmental Assessment, the Kansas City District Corps of Engineers has made a determination that this project would have no significant impacts on the human environment including natural and cultural resources and Federally listed threatened and endangered species. Therefore, a Finding of No Significant Impact (FONSI) has been prepared. In addition, after reviewing all the information available, the Corps has made a determination that the proposed project is the least environmentally damaging practicable alternative, that all appropriate and practicable measures have been included to avoid/minimize potential adverse impacts of discharge on the aquatic environment, and that the proposed project would not result in any adverse cumulative impacts to the watershed. Department of the Army authorization pursuant to Section 404 of the Clean Water Act is not required for this levee repair. The recommended plan does not involve the discharge of dredged or fill material in any Waters of the United States so State Water Quality Certification from the Missouri Department of Natural Resources is not required. Past determinations indicate that the proposed borrow area is within previously acceptable borrow areas and will not affect any wetland areas; therefore Section 404 authorization is not required for the proposed borrow areas. If other borrow areas or haul roads are proposed, a wetlands determination would be required prior to their utilization.

The proposed project area was determined to comprise approximately 3 acres; therefore, an NPDES permit will be required and will be obtained before project construction.

After evaluating the anticipated environmental, economic, and social effects of the proposed activity, it is my determination that construction of the proposed project does not constitute a major Federal action that would significantly affect the quality of the human environment; therefore, preparation of an Environmental Impact Statement is not required.

Date: 19 Dec 05



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Michael A. Rossi  
Colonel, Corps of Engineers  
District Engineer



DEPARTMENT OF THE ARMY  
KANSAS CITY DISTRICT, CORPS OF ENGINEERS  
700 FEDERAL BUILDING  
KANSAS CITY, MISSOURI 64106-2896

## EXECUTIVE SUMMARY

The U.S. Army Corps of Engineers, Kansas City District (CENWK), in cooperation with the project sponsor, the Steedman Levee District, proposes to construct the Steedman Levee District, Item No. 31A Levee Rehabilitation Project, under the authority of PL 84-99 of the Flood Control Act of 1944. The project purpose is to rehabilitate the existing Steedman Levee System to conditions that existed prior to the January 2005 flood event. The levee system is located on the left descending riverbank of the Missouri River between River Mile 120.5 to 117.0, in Callaway County, Missouri. The proposed levee rehabilitations will occur on the left descending riverbank of Auxvasse River (Section 9, Township 45 North, Range 8 West) and the right descending riverbank of Logan Creek (Section 36, Township 46 North, Range 8 West).

The Flood Control Works (FCW) levee was intermittently damaged at levee stations 46+60 to 48+80 and 320+00 to 323+50 following high flows from the January 2005 flood event. The damages consist of severe riverside slides, with total slippage of the riverside foreshore area/high banks. The proposed project consists of the excavation and re-establishment to the two stations as follows:

Station 46+60 to 48+80 (Auxvasse River): The recommended repair alternative is to repair damage using an approximately 630 linear foot landward setback. The landward setback will commence from existing levee station 44+00 and tie into the existing levee station at 50+30. The new levee embankment will have a 10-foot crown width, with a one-foot vertical on three-foot horizontal side slopes. The maximum landward setback is approximately 50 feet from the original levee alignment.

Borrow material will be obtained by utilizing portions of the existing levee system (i.e., all available riverward existing levee outside the new landward setback design lines). Additional borrow will be obtained from adjacent landward areas around the southern perimeter of an existing 1995 scour hole area, and positioned within 1,000 feet of the new levee setback.

Station 320+00 to 323+50 (Logan Creek): The recommended repair alternative is to repair damage using an approximately 675 linear foot landward setback. Due to the displacement of an existing 15-foot drainage pipe (CMP) at station 322+45, the levee setback will require the installation of a new 70-foot length of 15-foot CMP along with associated appurtenances (i.e., three 24-foot wide connecting bands and flap gates). The landward setback will commence from existing levee station 318+55 and tie into the existing levee station at 324+95. The new levee embankment will have a 10-foot crown width, with a one-foot vertical on three-foot horizontal side slopes. The maximum landward setback is approximately 50 feet from the original levee alignment.

Borrow material will be obtained by utilizing portions of the existing levee system (i.e., all available riverward existing levee outside the new landward setback design lines). Additional borrow will be obtained from adjacent riverward agricultural lands, within 1,000 feet of the new levee setback.

The proposed slide repairs are similar to past projects that occurred in 1993 and 1995, and the borrow areas are located in previously approved/cleared environmental areas. Review of photos and past field survey reports revealed that the proposed levee rehabilitation projects and borrow areas would be located on lands that have been previously disturbed by agricultural activities. The areas affected by the proposed project are open, highly disturbed and in agricultural production. Under current project plans, no trees would be cleared during construction of the proposed levee repair projects or at any borrow areas and haul roads. Borrow areas and the levee rehabilitation will avoid wetlands, timbered riparian, and timbered upland sites. The proposed project's effects would be minimal, primarily temporary in nature, and related to construction.

Considering all information related to the project, no significant impacts to the human environment are expected to result from the proposed emergency levee repair project. Based on a review of the information contained in the Environmental Assessment and of the comments received during inter-agency coordination, the Corps has approved the attached Finding of No Significant Impact for the recommended plan.

Additional information concerning this project may be obtained from Ms. Mary Perlea, Project Manager, Geotechnical Section, Kansas City District - U.S. Army Corps of Engineers, by writing the above address, or by telephone at 816-983-3602.

NEPA REVIEW  
ENVIRONMENTAL ASSESSMENT  
&  
FINDING OF NO SIGNIFICANT IMPACT

PL 84-99 - STEEDMAN LEVEE DISTRICT  
EMERGENCY LEVEE REPAIR  
CALLAWAY COUNTY, MISSOURI

TABLE OF CONTENTS

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FINDING OF NO SIGNIFICANT IMPACT

EXECUTIVE SUMMARY

TABLE OF CONTENTS

SECTION 1: INTRODUCTION

SECTION 2: AUTHORITY

SECTION 3: PROJECT LOCATION

SECTION 4: PROJECT PURPOSE AND NEED FOR ACTION

SECTION 5: EXISTING CONDITION

SECTION 6: ALTERNATIVES

SECTION 7: RECOMMENDED PLAN

SECTION 8: INITIAL AGENCY COORDINATION

SECTION 9: ENVIRONMENTAL EFFECTS OF THE RECOMMENDED PLAN

SECTION 10: ENVIRONMENTAL EFFECTS OF THE NON-RECOMMENDED  
PLANS

SECTION 11: THREATENED AND ENDANGERED SPECIES

SECTION 12: CULTURAL RESOURCES

SECTION 13: MITIGATION MEASURES

SECTION 14: COMPLIANCE WITH ENVIRONMENTAL QUALITY STATUTES

TABLE OF CONTENTS (Continued)

SECTION 15: CONCLUSION & RECOMMENDATIONS

TABLE

Table 1 – Compliance of Preferred Alternative with Environmental Protection Statutes and Other Environmental Requirements

APPENDICES

APPENDIX I – PROJECT DRAWINGS

APPENDIX II – AGENCY COORDINATION

NEPA REVIEW  
ENVIRONMENTAL ASSESSMENT  
&  
FINDING OF NO SIGNIFICANT IMPACT  
PL 84-99 – STEEDMAN LEVEE DISTRICT  
EMERGENCY LEVEE REPAIR  
CALLAWAY COUNTY, MISSOURI

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**Section 1: INTRODUCTION**

This Environmental Assessment provides information that was developed during the National Environmental Policy Act (NEPA) review of the proposed PL 84-99 Steedman Levee District, Item No. 31A Emergency Levee Repair Project, Callaway County, Missouri.

**Section 2: AUTHORITY**

The Kansas City District – U.S. Army Corps of Engineers (CENWK), in cooperation with the project sponsor, the Steedman Levee District, proposes to construct the Steedman Levee District, Item No. 31A Emergency Levee Repair Project, under the authority of PL 84-99 of the Flood Control Act of 1944.

**Section 3: PROJECT LOCATION**

The project is located on the left descending riverbank of Auxvasse River (Section 9, Township 45 North, Range 8 West) and the right descending riverbank of Logan Creek (Section 36, Township 46 North, Range 8 West) in Callaway County, Missouri.

**Section 4: PROJECT PURPOSE & NEED FOR ACTION**

PL 84-99 of the Flood Control Act of 1944 provides authority for emergency levee rehabilitation projects where existing flood protection structures are in need of repair. The PL 84-99 – Steedman Levee District Project purpose is to rehabilitate the existing Steedman Levee District levees to conditions that existed prior to the Missouri River cresting in the area following substantial rainfall that occurred in January of 2005.

**Section 5: EXISTING CONDITION**

As a result of high water stored for a prolonged period of time in the Auxvasse River and Logan Creek channels following cresting of the Missouri River after substantial rainfall that occurred in January of 2005, slope failures developed on the riverside of these two levees. Two main slides were observed between approximately station 46+60 to 48+80

and station 320+00 to 323+50. The damages consist of severe riverside slides, with total slippage of the riverside foreshore area/high banks.

## Section 6: ALTERNATIVES

Three alternatives were considered. Two build alternatives and the "no action" alternative. Both of the build alternatives would involve the excavation of the failed slope and the reconstruction of the levee embankment. Random borrow material obtained from a nearby landside agricultural area, as well as the excavated material from construction, would be used for this purpose. The proposed levee repairs are similar to past projects that occurred in 1993 and 1995, and the borrow areas are located in previously approved/cleared environmental areas. Review of photos and past field survey reports revealed that the proposed levee rehabilitation projects and borrow areas would be located on lands that have been previously disturbed by agricultural activities. The areas affected by the proposed project are open, highly disturbed and in agricultural production. Under current project plans, no trees would be cleared during construction of the proposed levee repair projects or at any borrow areas and haul roads. Borrow areas and the levee rehabilitation will avoid wetlands, timbered riparian, and timbered upland sites. The proposed project's effects would be minimal, temporary in nature, and related to construction. The three alternatives considered were:

### (1) Repair Alternative Number 1.

Station 46+60 to 48+80: In-place repairs would involve re-establishment of the slipped high bank/foreshore area, along with the excavation/restoration of damaged levee embankment slope. The repair action would toe out into Auxvasse River, which would require the placement of a stone toe trench revetment structure to provide stability and to prevent erosion to the restored levee embankment and high bank/foreshore area. Total costs for this repair was computed to be \$79,780.00.

Station 320+00 to 323+50: In-place repairs would involve re-establishment of the slipped high bank/foreshore area, along with the excavation/restoration of damaged levee embankment slope. The repair action would toe out into Logan Creek, which would require the placement of a stone toe trench revetment structure to provide stability and to prevent erosion to the restored levee embankment and high bank/foreshore area. Total costs for this repair was computed to be \$91,132.00.

### (2) Repair Alternative Number 2 (RECOMMENDED). See Section 7 below.

(3) The No action alternative. The No Action alternative would keep the conditions at the site as they currently exist, and would continue to expose all public and private infrastructure and agricultural croplands to a high risk level of future flooding.

## Section 7: RECOMMENDED PLAN

The FCW levee was intermittently damaged at levee stations 46+60 to 48+80 and 320+00 to 323+50 following high flows from the January 2005 flood event. The damages consist of severe riverside slides, with total slippage of the riverside foreshore area/high banks. The proposed project consists of the excavation and re-establishment to the two stations as follows:

Station 46+60 to 48+80 (Auxvasse River): The recommended repair alternative is to repair damage using an approximately 630 linear foot landward setback. The landward setback will commence from existing levee station 44+00 and tie into the existing levee station at 50+30. The new levee embankment will have a 10-foot crown width, with a one-foot vertical on three-foot horizontal side slopes. The maximum landward setback is approximately 50 feet from the original levee alignment.

Borrow material will be obtained by utilizing portions of the existing levee system (i.e., all available riverward existing levee outside the new landward setback design lines). Additional borrow will be obtained from adjacent landward areas around the southern perimeter of an existing 1995 scour hole area, and positioned within 1,000 feet of the new levee setback. Total costs for this repair was computed to be \$15,623.00

Station 320+00 to 323+50 (Logan Creek): The recommended repair alternative is to repair damage using an approximately 675 linear foot landward setback. Due to the displacement of an existing 15-foot drainage pipe (CMP) at station 322+45, the levee setback will require the installation of a new 70-foot length of 15-foot CMP along with associated appurtenances (i.e., three 24-foot wide connecting bands and flap gates). The landward setback will commence from existing levee station 318+55 and tie into the existing levee station at 324+95. The new levee embankment will have a 10-foot crown width, with a one-foot vertical on three-foot horizontal side slopes. The maximum landward setback is approximately 50 feet from the original levee alignment.

Borrow material will be obtained by utilizing portions of the existing levee system (i.e., all available riverward existing levee outside the new landward setback design lines). Additional borrow will be obtained from adjacent riverward agricultural lands, within 1,000 feet of the new levee setback. Total costs for this repair was computed to be \$28,701.00.

The borrow areas are located in previously approved/cleared environmental areas. Review of photos and past field survey reports revealed that the proposed borrow areas are located on lands that have been previously disturbed by agricultural activities. The areas affected by the proposed project are open, highly disturbed and in agricultural production. Under current project plans, no trees would be cleared during construction of the proposed levee repair projects or at any borrow areas and haul roads. Borrow areas and the levee rehabilitation will avoid wetlands, timbered riparian, and timbered upland sites. The proposed project's effects would be minimal, primarily temporary in nature, and related to construction.

Access Routes: As shown on attached drawings.

#### **Section 8: AGENCY COORDINATION**

Project development was coordinated during the planning process via Public Notice 200502516, dated September 8, 2005, with a 15-day comment period ending on September 23, 2005. A list of the Federal, state, and local resources agencies, Native American tribes, and the general public contacted during public interest review can be found in Appendix II. The State Historic Preservation Office, in a letter dated September 12, 2005, stated that "adequate documentation has been provided (36 CFR Section 800.11), and there will be 'no historic properties affected' by the current project". In addition, the Sac & Fox Tribe of the Mississippi in Iowa stated that they had no objections to the proposed project. No other agencies or public interests contacted the Corps concerning the proposed project. Based on this agency coordination, CENWK prepared an Environmental Assessment and Finding of No Significant Impact. Please refer to the attached documentation for review of the Agency Coordination (Appendix II).

#### **Section 9: ENVIRONMENTAL EFFECTS OF THE RECOMMENDED PLAN**

Project impacts of the recommended plan (Alternative 2) include a minor amount of vegetation clearing (grasses) along the bank to prepare the area for slope excavation and reconstruction. All disturbed areas will be re-seeded and mulched after project completion. Additionally, minor impacts to air quality, noise, and site runoff will occur as a result of construction activities during project build-out; however, these are short-term unavoidable impacts resulting from construction related activities. The preferred alternative has minimized adverse affects to the environment by maintaining bank slopes at existing levels and avoiding the need for stone toe trench revetment structures thereby reducing the amount of material needed. No agricultural land would be converted to wetlands, and adjacent property owners would not be adversely affected. No adverse effects to wetlands or waters of the U.S. will occur as a result of construction; therefore, no Section 404 or 401 permit will be required. The adverse effects associated with the project are minor, short-term, and related to construction. The re-seeding and mulching of the affected areas following construction would adequately offset these minor adverse effects.

#### **Section 10: ENVIRONMENTAL EFFECTS OF THE NON-RECOMMENDED PLANS**

Alternative 1 was deemed technically feasible but would result in greater impacts than the proposed plan due to the construction of the stone toe trench revetments and the additional materials required for these features. Additionally, a greater amount of borrow material was calculated to be needed to construct the project thereby requiring longer construction periods and corresponding construction related impacts. Additionally, this alternative was not deemed cost effective.

Alternative 3 (the "no action" Alternative) has not been recommended because it would not meet the project purpose of emergency levee repair and would not be sufficient to retain the integrity of the flood protection intended for this project. People's livelihood and social well-being would remain in turmoil, subject to the continuous threat of flooding until some level of flood protection is restored. Jobs could be lost and families may be forced to relocate in search of new employment if flood protection is not restored. Failure to reconstruct the levee would adversely affect the tax base of the county and municipal governments and special districts, such as school districts. Losses in agricultural production on lands formerly protected by the levee would also be incurred. The "No Action" alternative would have no permanent or temporary construction related impacts.

#### **Section 11: THREATENED AND ENDANGERED SPECIES**

The proposed project would have no adverse effects on any Federal listed threatened or endangered species or their habitat. No impacts to any state listed threatened or endangered species or their habitat were identified.

#### **Section 12: CULTURAL RESOURCES**

A Programmatic Agreement regarding implementation of the Public Law 84-99 program in Missouri, Kansas, Iowa and Nebraska was signed by the Advisory Council on Historic Preservation, the Kansas City District and the four State Historic Preservation Offices (SHPO) during the Flood Event of 1993. After review of materials from a previous cultural resources investigation by a qualified archeologist in 1993 and previous coordination with the SHPO, it was determined that the proposed borrow areas are located within previously cleared/approved borrow area sites; therefore, additional site investigations and coordination efforts are not required.

#### **Section 13: MITIGATION MEASURES**

The recommended plan will result in a minor amount of vegetation clearing (grasses) along the banks of the existing Steedman Levee District levees. As described above, all disturbed areas will be re-seeded and mulched after project completion. Therefore, no additional mitigation measures are warranted or proposed.

#### **Section 15: COMPLIANCE WITH ENVIRONMENTAL QUALITY STATUTES**

Compliance with Designated Environmental Quality Statutes that have not been specifically addressed earlier in this report are covered in the following Table:

**Table 1**  
**Compliance of Preferred Alternative with Environmental Protection**  
**Statutes and Other Environmental Requirements**

Federal Policies	Compliance
Archaeological Resources Protection Act, 16 U.S.C. 470, et. seq.	Full Compliance
Clean Air Act, as amended, 42 U.S.C. 7401-7671g, et. seq.	Full Compliance
Clean Water Act (Federal Water Pollution Control Act), 33 U.S.C. 1251, et. seq.	Not Applicable
Federal Policies	Full Compliance
Coastal Zone Management Act, 16 U.S.C. 1451, et. seq.	Not Applicable
Endangered Species Act, 16 U.S.C. 1531, et. seq.	Full Compliance
Estuary Protection Act, 16 U.S.C. 1221, et. seq.	Not Applicable
Federal Water Project Recreation Act, 16 U.S.C. 4601-12, et. seq.	Not Applicable
Fish and Wildlife Coordination Act, 16 U.S.C. 661, et. seq.	Full Compliance
Land and Water Conservation Fund Act, 16 U.S.C. 4601-4, et. seq.	Not Applicable
Marine Protection Research and Sanctuary Act, 33 U.S.C. 1401, et. seq.	Not Applicable
Nation Environmental Policy Act, 42 U.S.C. 4321, et. seq.	Full Compliance
National Historic Preservation Act of 1966, as amended, 16 U.S.C. 470a, et. seq.	Full Compliance
Rivers and Harbors Act, 33 U.S.C. 403, et. seq.	Not Applicable
Watershed Protection and Flood Prevention Act, 16 U.S.C. 1001, et. seq.	Full Compliance
Wild and Scenic River Act, 16 U.S.C. 1271, et. seq.	Not Applicable
Farmland Protection Policy Act, 7 U.S.C. 4201, et. seq.	Full Compliance
Protection & Enhancement of the Cultural Environment (Executive Order 11593)	Full Compliance
Floodplain Management (Executive Order 11988)	Full Compliance
Protection of Wetlands (Executive Order 11990)	Not Applicable
Environmental Justice (Executive Order 12898)	Full Compliance

**NOTES:**

- a. Full Compliance. Having met all requirements of the statute for the current stage of planning (either pre-authorization or post-authorization)
- b. Partial compliance. Not having met some of the requirements that normally are met in the current stage of planning.
- c. Noncompliance. Violation of a requirement of the statute.
- d. Not applicable. No requirements for the statute required; compliance for the current stage of planning.

**Section 16: CONCLUSION & RECOMMENDATION**

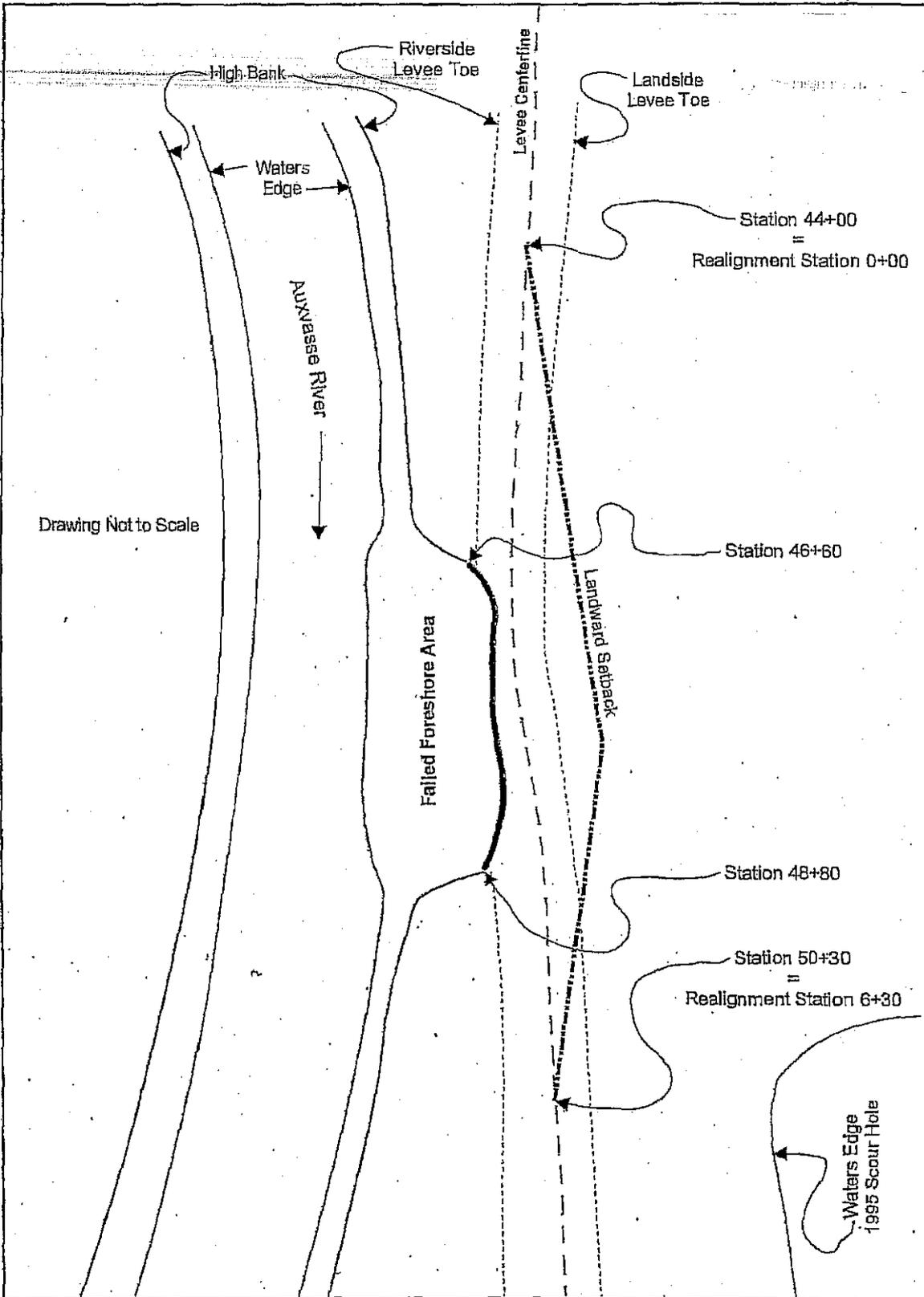
Based on the coordination with the resource agencies, as documented in this Environmental Assessment, the Kansas City District – Corps of Engineers has made a determination that this project would have no significant impacts on the human environment including natural and cultural resources and Federally listed threatened and endangered species; therefore, a Finding of No Significant Impact (FONSI) has been

prepared. In addition, after reviewing all the information available, the Corps has made a determination that the proposed project is the least environmentally damaging practicable alternative; that all appropriate and practicable measures have been included to avoid/minimize potential adverse impacts of discharge on the aquatic environment; and that the proposed project would not result in any adverse cumulative impacts to the watershed. Department of the Army authorization pursuant to Section 404 of the Clean Water Act is not required for this levee repair. The recommended plan does not involve the discharge of dredged or fill material in any Waters of the United States. In addition, State Water Quality Certification from the Missouri Department of Natural Resources is not required. Past determinations indicate that the proposed borrow areas are within previously acceptable borrow areas and will not affect any wetland areas; therefore Section 404 authorization is not required for the proposed borrow areas. If other borrow areas or haul roads are proposed, a wetlands determination would be required prior to their utilization. The proposed project area was determined to comprise approximately three acres; therefore, an NPDES permit will be required and will be obtained before project construction.

# APPENDIX I

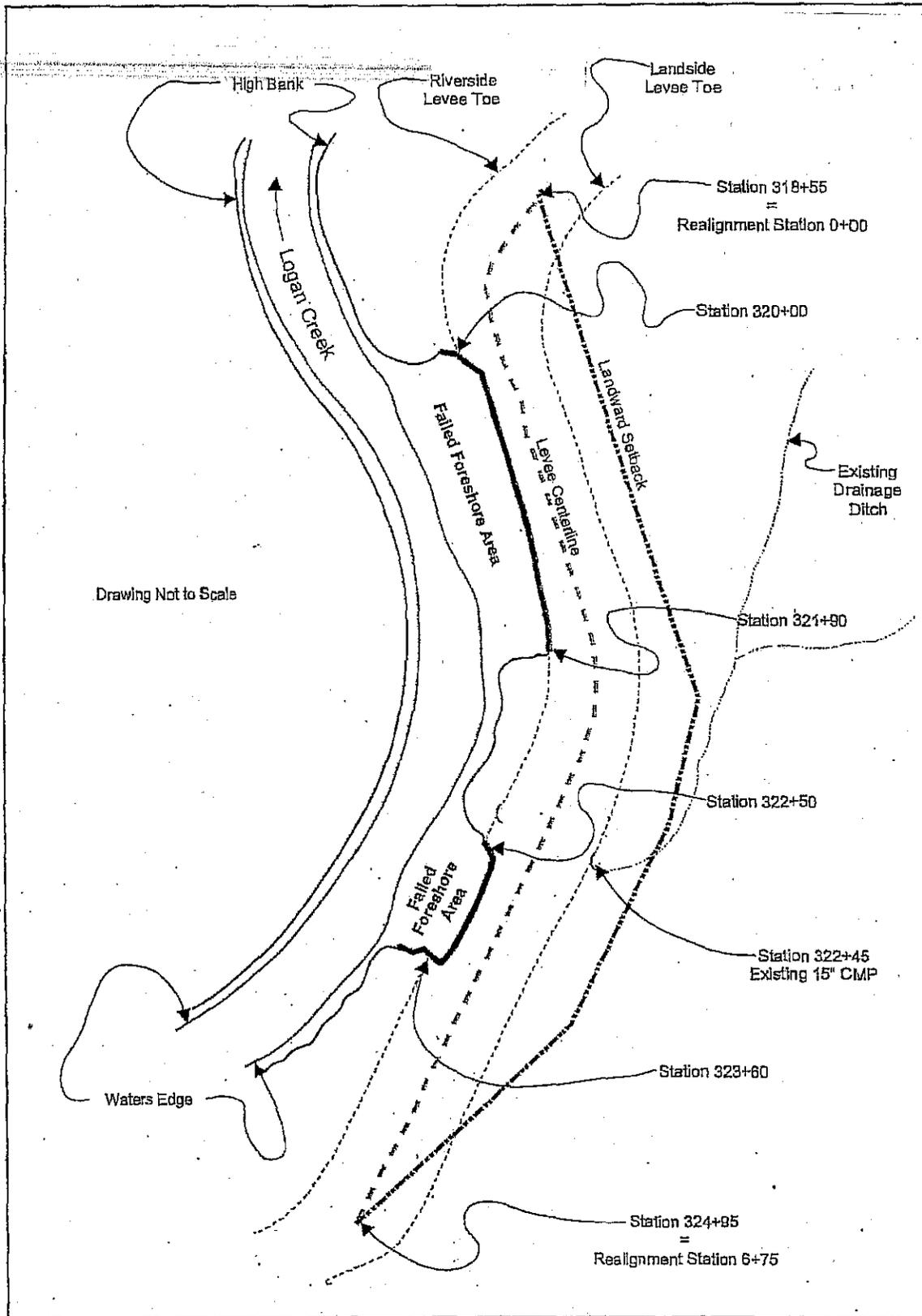
## PROJECT DRAWINGS

Steedman Levee District  
PL 84-99 Emergency Levee Repair  
Callaway County, Missouri  
December 2005



**Item 31A  
 Steedman Levee District**

**ATTACHMENT  
 E - 5**

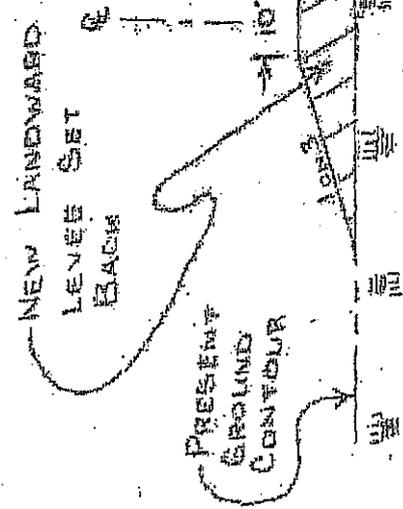


**Item 31A**  
**Steedman Levee District**

**ATTACHMENT**  
**E - 6**

LANDSIDE

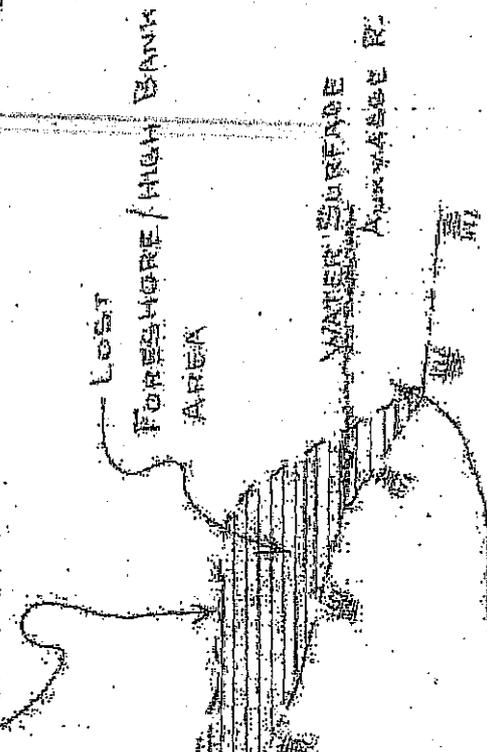
RIVERSIDE



REMAINING EXISTING LEVEE TO BE DE-GRADED (AVAILABLE BORROW)

PRE-FLOOD FORESHORE/HIGH BANK CONTOUR

LOST FORESHORE/HIGH BANK AREA



TYPICAL SECTION

LEVEE STATION 48+00

REALIGNMENT STATION 3+00

TO RESTORE LOST FORESHORE/HIGH BANK AREA TO PRE-FLOOD CONTOUR

CONDITIONS WOULD REQUIRE CONSTRUCTING

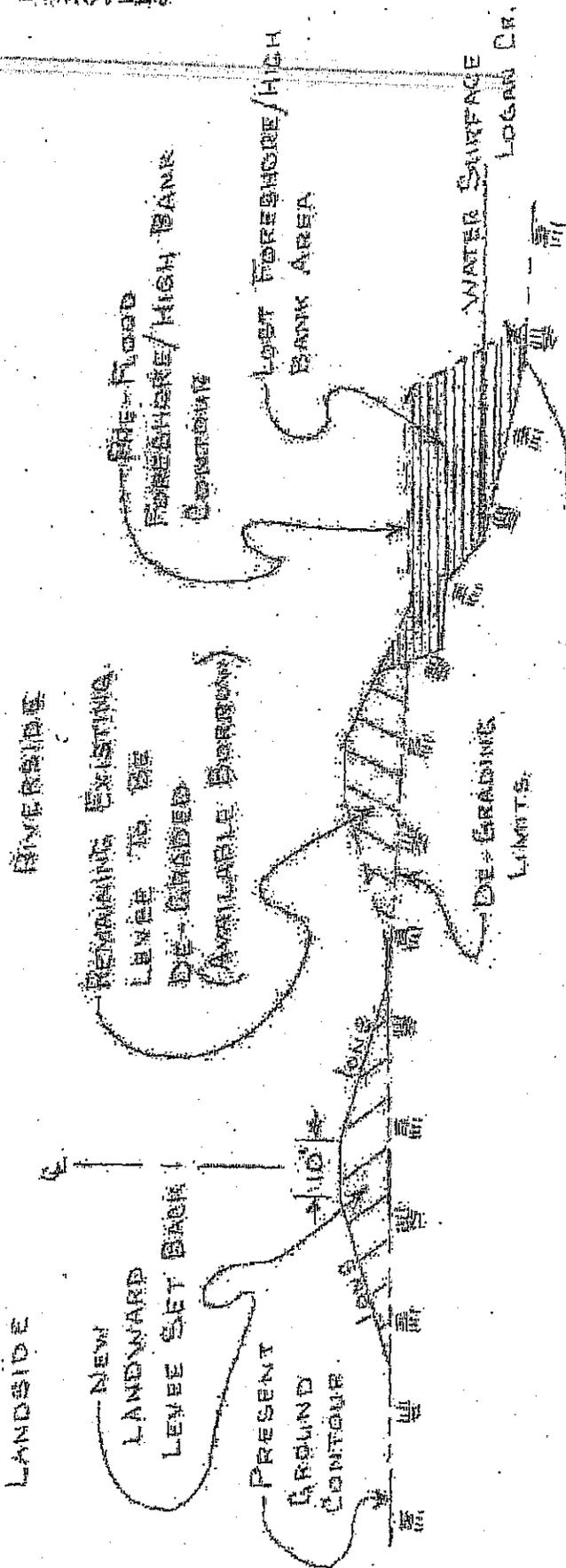
A STONE TOE TRENCH

RETAINMENT STRUCTURE

IN THIS LOCATION

NOTE:  
DRAWING NOT TO SCALE

AT 110 HIGHWAY 21  
E-17



TO RECREATE LOST FORESHORE/HIGH BANK AREA TO PRE-FLOOD CONTOUR. CONDITIONS WOULD REQUIRE CONSTRUCTING A SOME TYPE PREVENTIVE STRUCTURE IN THIS LOCATION.

TYPICAL SECTION

LEVEE STATION 3234.95  
#  
REALIGNMENT STATION 5100

NOTE:  
DRAWING NOT  
TO SCALE

## APPENDIX II

# AGENCY COORDINATION

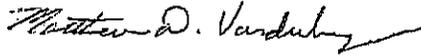
Steedman Levee District  
PL 84-99 Emergency Levee Repair  
Callaway County, Missouri  
December 2005

September 31, 2005

## MEMORANDUM FOR RECORD

SUBJECT: AGENCY COORDINATION - PL 84-99

1. As part of the National Environmental Policy Act review for the proposed project, the undersigned coordinated project development with the following resource agencies: the U.S. Fish and Wildlife Service, the Missouri Department of Conservation; the Missouri Department of Natural Resources, and the State Historic Preservation Office.
2. CONCLUSION: Resource agencies made no specific objections to the proposed project. No modification to the project is required at this time. No Federally listed threatened or endangered species or their habitat was identified in the project area. No state listed threatened or endangered species or their habitat was identified in the project area. A determination has been made by NWK that the project would not affect cultural resources. Based on the above coordination, we have prepared the attached Environmental Assessment and Finding of No Significant Impact.



Matthew D. Vandenberg  
Environmental Resource Specialist  
PM-PR

# PUBLIC NOTICE



US Army Corps  
of Engineers  
Kansas City District

Permit No. 200502516  
Issue Date: September 8, 2005  
Expiration Date: September 23, 2005

15-Day Notice

**APPLICANT:** Kansas City District  
Corps of Engineers  
700 Federal Building  
Kansas City, Missouri 64106-2896

**SPONSOR:** Steve Smart, President  
Steedman Levee District

**PROJECT LOCATION** (As shown on the attached drawings): The proposed project is located on the right descending riverbank of Auxvasse Creek (Section 9, Township 45 North, Range 8 West) and the right descending riverbank of Logan Creek (Section 36, Township 46 North, Range 8 West) in Callaway County, Missouri.

**AUTHORITY:** PL 84-99 of the Flood Control Act of 1944.

**ACTIVITY** (As shown on the attached drawings): **PROPOSED WORK:** The FCW levee was intermittently damaged at levee stations 46+60 to 48+80 and 320+00 to 323+50 following high flows from the January 2005 flood event. The damages consist of severe riverside slides, with total slippage of the riverside foreshore area/high banks. The proposed project consists of the excavation and re-establishment to the two stations as follows:

Station 46+60 to 48+80 (Auxvasse River): The recommended repair alternative is to repair damage using an approximately 630 linear foot landward setback. The landward setback will commence from existing levee station 44+00 and tie into the existing levee station at 50+30. The new levee embankment will have a 10-foot crown width, with a one-foot vertical on three-foot horizontal side slopes. The maximum landward setback is approximately 50 feet from the original levee alignment.

Borrow material will be obtained by utilizing portions of the existing levee system (i.e., all available riverward existing levee outside the new landward setback design lines). Additional borrow will be obtained from adjacent landward areas around the southern perimeter of an existing 1995 scour hole area, and positioned within 1,000 feet of the new levee setback.

Station 320+00 to 323+50 (Logan Creek): The recommended repair alternative is to repair damage using an approximately 675 linear foot landward setback. Due to the displacement of an existing 15-foot diameter drainage pipe (CMP) at station 322+45, the levee setback will require the installation of a new 70-foot length of 15-foot diameter CMP along with associated appurtenances (i.e., three 24-foot wide connecting bands and flap gates). The landward setback will commence from existing levee station 318+55 and tie into the existing levee station at 324+95. The new levee embankment will have a 10-foot crown width, with a one-foot vertical on three-foot horizontal side slopes. The maximum landward setback is approximately 50 feet from the original levee alignment.

Borrow material will be obtained by utilizing portions of the existing levee system (i.e., all available riverward existing levee outside the new landward setback design lines). Additional borrow will be obtained from adjacent riverward agricultural lands, within 1,000 feet of the new levee setback.

The proposed borrow areas are located in previously approved/cleared environmental areas. Review of photos and past field survey reports revealed that the proposed levee rehabilitation projects and borrow areas would be located on lands that have been previously disturbed by agricultural activities. The areas affected by the proposed project are open, highly disturbed and in agricultural production. Under current project plans, no trees would be cleared during construction of the proposed levee repair projects or at any borrow areas and haul roads. Borrow areas and the levee rehabilitation will avoid wetlands, timbered riparian, and timbered upland sites. The proposed project's adverse effects would be minimal and primarily temporary in nature.

**WETLANDS:** Department of the Army authorization pursuant to Section 404 of the Clean Water Act is not required for this levee repair. The recommended plan does not involve the discharge of dredged or fill material in any Waters of the United States. In addition, State Water Quality Certification from the Missouri Department of Natural Resources is also not required. Past determinations indicate that the proposed borrow area is within previously acceptable borrow areas and will not affect any wetland areas; therefore Section 404 authorization is not required for the proposed borrow areas. If other borrow areas or haul roads are proposed, a wetlands determination would be required prior to their utilization.

**NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) of 1968, as amended:** The Corps has made a preliminary determination that the proposed project would not result in significant degradation of the human environment and therefore the proposed project would support a Finding of No Significant Impact (FONSI). The Corps will utilize comments received in response to this Public Notice to complete our evaluation of the project for compliance with the requirements of NEPA, and other Federal, state, and local regulations.

**DRAWINGS:** The attached drawings provide location details of the proposed project.

**PROPERTY ADJACENT TO PROJECT AREA:** A list of property owners adjacent to the proposed project area has been provided to the Corps, and these individuals will be notified directly to inform them of the project and to request their comments.

**CULTURAL RESOURCES:** A Programmatic Agreement regarding implementation of the Public Law 84-99 program in Missouri, Kansas, Iowa and Nebraska was signed by the Advisory Council on Historic Preservation, the Kansas City District and the four State Historic Preservation Offices (SHPO) during the Flood Event of 1993. After review of materials from a previous cultural resources investigation by a qualified archeologist in 1993 and previous coordination with the SHPO, it was determined that the proposed borrow area is located within previously cleared/approved borrow area sites; therefore, additional site investigations and coordination efforts are not required.

**ENDANGERED SPECIES:** In compliance with the Endangered Species Act, a preliminary determination has been made that the proposed work will not adversely affect species designated as threatened or endangered or adversely modify or destroy critical habitat. Letters have been sent to the resource agencies requesting concurrence with this determination.

**FLOODPLAINS:** The recommended plan is located in the base floodplain and subject to Executive Order 11988, "Floodplain Management." The recommended plan would restore the level of flood protection that existed prior to the flood. In addition, since the proposed levee repair would restore this levee to its near original alignment and pre-flood grade and cross section, no increase in floodwater surface elevations would occur. As the recommended plan would not directly or indirectly support more development in the floodplain or encourage additional occupancy and/or modification of the base floodplain, the Corps has determined that the recommended plan complies with the intent of Executive Order 11988.

**PUBLIC INTEREST REVIEW:** The decision to issue authorization will be based on an evaluation of the probable impact including the cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, esthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs and, in general, the needs and welfare of the people. The evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency under authority of Section 404(b) of the Clean Water Act (33 USC 1344). The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny an authorization for this proposal. To make this decision, comments are used to address impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

**COMMENTS:** This notice is provided to outline details of the above-described activity so this District may consider all pertinent comments prior to determining if issuance of an authorization would be in the public interest. Any interested party is invited to submit to this office written facts or objections relative to the activity on or before the public notice expiration date. Comments both favorable and unfavorable will be accepted and made a part of the record and will receive full consideration in determining whether it would be in the public interest to issue the Department of the Army authorization. Copies of all comments, including names and addresses of commenters, may be provided to the applicant. Comments should be mailed to the address shown below.

**PUBLIC HEARING:** Any person may request, in writing, prior to the expiration date of this public notice, that a public hearing be held to consider this application. Such requests shall state, with particularity, the reasons for holding a public hearing.

**ADDITIONAL INFORMATION:** Additional information about this application may be obtained by contacting Mr. Matthew Vandenberg, U.S. Army Corps of Engineers, Environmental Resources Section, 601 East 12<sup>th</sup> Street, Room 843, Kansas City, Missouri 64106, at telephone 816-983-3146, (FAX 816-426-2142) or via e-mail at [matthew.d.vandenberg@usace.army.mil](mailto:matthew.d.vandenberg@usace.army.mil). All comments to this public notice should be directed to the above address.

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Richard	Chinn	Richard Chinn Environmental Training	804 Cottage Hill Way	Brandon	FL	33511-8098	<a href="mailto:info@richardchinn.com">info@richardchinn.com</a>	
		Riley County	P.O. Box 333	Riley	KS	66531	<a href="mailto:countian@kansas.net">countian@kansas.net</a>	
		Riley County - County Engineer	110 Court House Plaza	Manhattan	KS	66502-0012	<a href="mailto:iward@co.riley.ks.us">iward@co.riley.ks.us</a>	
		Riley County Commission	Courthouse	Manhattan	KS	66502	<a href="mailto:rvaroo@co.riley.ks.us">rvaroo@co.riley.ks.us</a>	
		Rooks County Highway Department	303 South Walnut	Stockton	KS	67668-2150	<a href="mailto:recordbr@ruraltel.net">recordbr@ruraltel.net</a>	
		Rushing Marine Corporation	P.O. Box 440	Jackson	MO	63755-0440	<a href="mailto:miker@rushingmarine.com">miker@rushingmarine.com</a>	
Andy	Phelps	Russell County Natural Resources Conservation Service	125 E. 7th	Russell City	KS	67665	<a href="mailto:andy.phelps@ks.nrcs.usda.gov">andy.phelps@ks.nrcs.usda.gov</a>	
Terri	Bruner	Schuylar County Natural Resources Conservation Service	Route U, P.O. Box 249	Lancaster	MO	63540-0249	<a href="mailto:terri.bruner@mo.usda.gov">terri.bruner@mo.usda.gov</a>	
		Sedgwick County	1144 South Seneca	Wichita	KS	67212-4443	<a href="mailto:rjgeorge@sedgwick.gov">rjgeorge@sedgwick.gov</a>	
		Sedgwick County	1144 South Seneca	Wichita	KS	67213	<a href="mailto:jwaber@sedgwick.gov">jwaber@sedgwick.gov</a>	
Manuel	Gross	Shafer, Kline & Warren, Inc.	11100 West 91st Street	Overland Park	KS	66214-3216	<a href="mailto:gross@skw-inc.com">gross@skw-inc.com</a>	
James	Duff	Shannon & Wilson, Inc.	2043 Westport Center Drive	St. Louis	MO	63146	<a href="mailto:jduff@shannwil.com">jduff@shannwil.com</a>	
Murray	Meierhoff	Shannon & Wilson, Inc.	11500 Olive Boulevard Suite 276	St. Louis	MO	63141-7126	<a href="mailto:mjm@shannwil.com">mjm@shannwil.com</a>	
Dennis	Brinkman	Shawnee County Natural Resources Conservation Service	3231 SW Van Buren, Suite 2	Topeka	KS	66611-2291	<a href="mailto:dennis.brinkman@ks.nrcs.usda.gov">dennis.brinkman@ks.nrcs.usda.gov</a>	
Sтивен	G. Lader	St. Charles County Planning Department	201 North Second, Suite 420	St. Charles	MO	63301	<a href="mailto:ctypnz@mail.wln.org">ctypnz@mail.wln.org</a>	

PN Electronic Mailing List

		St. Clair County Commission	P.O. Box 405	Oscola	MO	64776-0405	llstcl@sospublicmail.state.mo.us
Curtis	Goach	St. Clair County Natural Resources Conservation Service	3835 NE Highway 13	Oscola	MO	64776-9509	curtis.goach@mo.usda.gov
		St. Mary's Star	P.O. Box 190	St. Marys	KS	66535-0190	star@oci.net
Stuart	Lawson	Sullivan County Natural Resources Conservation Service	Route 1, Box 15	Millan	MO	63556	stuart.lawson@mo.usda.gov
		Summer County Natural Resources Conservation Service	320 North Jefferson	Wellington	KS	67152	mat.markley@ks.nrcs.usda.gov
		Techno Marine					sbourque@technomarine.ca
James	VanBlaricon	Terracon Companies, Inc.	2111 West Harry	Wichita	KS	67214	jvanblaricon@terracon.com
Edwin G.	Harvey	Thompson Coburn	One Mercantile Center	St. Louis	MO	63101-1693	eharvey@thompsoncoburn.com
		Tipton Times		Tipton	MO		times@vernonpublishing.com
Cheryl	Harmond	Today Data					info@todaydata.com
		Tonganoxie Minor	P.O. Box 920	Tonganoxie	KS	66086	cirowbridge@tonganoxia.com
Mike	Grogan	Trego County Natural Resources Conservation Service	519 Russell	Wakeeney	KS	67572	mike.grogan@ks.nrcs.usda.gov
Natha	McAllister	Tri-County Weekly	K-K Printings, 105 S. Broadway, P.O. Box 137	Jamesport	MO	64648	nerl@grm.net
Christopher	White	U.S. Army Corps of Engineers, Kansas City District, Planning Branch					christopher.m.white@usace.army.mil
Mark	Frazier	U.S. Army Corps of Engineers, Kansas City District, Regulatory Branch					mark.d.frazier@usace.army.mil
Brenda	Kinlon	U.S. Army Corps of Engineers, Tulsa District, Regulatory Branch	1645 South 101st East Avenue	Tulsa	OK	74128	brenda.kinlon@usace.army.mil
		U.S. Coast Guard					Rreid@grpumar.uscg.mil
Susan	Blackford	U.S. Fish and Wildlife Service	315 Houston, Suite E	Manhattan	KS	66502	susan_blackford@fws.gov
Chad	Remley	USDA/NRCS	760 South Broadway	Salina	KS	67401-4642	chad.remley@ks.usda.gov
David	Clyman	Vernon County Natural Resources Conservation Service	100 West Allison	Nevada	MO	64772	david.clyman@mo.usda.gov
		W.G. Jaques Company	2183 NW 88th Street	Des Moines	IA	50325	jaques@wjjaques.com
Tracy	Freeman	Wabawsee County Natural Resources Conservation Service	Rural Route 2, Box 1	Alma	KS	66401	tracy.freeman@ks.usda.gov
Ted	Houser	Wallace County Natural Resources Conservation Service	P.O. Box 608	Sharon Springs	KS	67758-0608	ted.houser@ks.nrcs.usda.gov
		Washington County News	P.O. Box 316	Washington	KS	66999	washnews@washingtorks.net
		Washington County Public Works Department	P.O. Box 277	Washington	KS	66968	wcpw@washingtorks.net
Dianne	Hedquist	Water District No. 1 of Johnson County	7601 Holiday Drive	Kansas City	KS	66101	dhedquist@waterone.org
		Water District No. 1 of Johnson County	7601 Holiday Drive	Kansas City	KS	66101	spalerson@waterone.org
		Wellington Daily News		Wellington	KS	67152	wdn@tdlr.net
Steve	Wooden	Wilson County Natural Resources Conservation Service	704 North Miami	Marshall	MO	65340	steve.wooden@mo.usda.gov
Norman	Nelson						gn729@hotmail.com
Debbie	Hays						scouthays@sbcglobal.net
Vicki	Richmond						vic@kc.rr.com
Jerry	Bassett						orddglb@aol.com
Bob	Phillips		16315 Dearborn Drive	Stowell	KS	66085	bob.phillips@mail.sprink.com
David	Masker						dwmesker@earthlink.net
							maildrill@cvberdodge.com
Lance	Burr		16 East 13th Street	Lawrence	KS	66044	lancewburr@sunflower.com

PN Electronic Mailing List

David	Blackford		12 Doral Lane	Holiday Island	AR	72631-5116	lida37@arkansas.net	
Laura	Calwell		5610 West 61st Terrace	Shawnee Mission	KS	66202	creativechoice@yahoo.com	
Mike	Farley		175 Quindaro	Floissant	MO	63034	farley_mike@email.msn.com	
John	L Walker		P.O. Box 559	Camdenton	MO	65020	scotchhw@aol.com	
Joe	Gibbs		1115 Club Meadows Drive	Columbia	MO	65203	lbg5267@aol.com	
William	Beacom						bbeacom@pionet.net	
			Last Update - 12 August 2005					

**CULTURAL RESOURCE ASSESSMENT**  
**Section 106 Review**

CONTACT PERSON/ADDRESS

C:

Matthew Vandenberg  
Corps of Engineers, Kansas City District  
Environmental Resources Section  
601 East 12<sup>th</sup> Street, Room 843  
Kansas City, Missouri 64106

Joe Cothorn, EPA  
Tim Meade, COE/KC

PROJECT:

Kansas City District Application No: 200502516

FEDERAL AGENCY

COE

COUNTY:

CALLAWAY

The State Historic Preservation Office has reviewed the information submitted on the above referenced project. Based on this review, we have made the following determination:

After review of initial submission, the project area has a low potential for the occurrence of cultural resources. A cultural resource survey, therefore, is not warranted.

Adequate documentation has been provided (36 CFR Section 800.11). There will be "no historic properties affected" by the current project.

An adequate cultural resource survey of the project area has been previously conducted. It has been determined that for the proposed undertaking there will be "no historic properties affected".

For the above checked reason, the State Historic Preservation Office has no objection to the initiation of project activities. PLEASE BE ADVISED THAT, IF THE CURRENT PROJECT AREA OR SCOPE OF WORK ARE CHANGED, A BORROW AREA IS INCLUDED IN THE PROJECT, OR CULTURAL MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, APPROPRIATE INFORMATION MUST BE PROVIDED TO THIS OFFICE FOR FURTHER REVIEW AND COMMENT. Please retain this documentation as evidence of compliance with Section 106 of the National Historic Preservation Act, as amended.

By:

*Mark A. Miles*  
Mark A. Miles, Deputy State Historic Preservation Officer

September 12, 2005

Date

MISSOURI DEPARTMENT OF NATURAL RESOURCES  
STATE HISTORIC PRESERVATION OFFICE  
P.O. Box 176, Jefferson City, Missouri 65102

For additional information, please contact Judith Deel, (573) 751-7862. Please be sure to refer to the project number:  
017-CY-05



## Sac & Fox Tribe of the Mississippi in Iowa

349 Meskwaki Road, Tama, IA 52339-9629 • (641) 484-4678 FAX (641) 484-5424

"MESKWAKI NATION"

September 27, 2005

Mr. Matthew Vandenberg  
U.S. Army Corp of Engineers  
Environmental Resources Section  
601 East 12<sup>th</sup> Street Rm# 843  
Kansas City, MO 64106

Dear Mr. Matthew Vandenberg:

Thank you for the notices concerning the permit #'s

- 200502517
- 200502516

At this time, the Historical Preservation Department of the Sac and Fox of the Mississippi in Iowa has determined the above listed has:

- No interest in the area geographically
- No comment on the proposed undertaking
- No objections. However, if human skeletal remains and/or any objects falling under NAGPRA are uncovered during construction, please stop immediately and notify the NAGPRA Representative, Johnathan L. Buffalo.
- Have an objection or require additional project information. Please send the following:  
\_\_\_\_\_

Sincerely,

Johnathan L. Buffalo  
Historical Preservation Coordinator  
Sac and Fox of the Mississippi in Iowa

Cc: File

**ATTACHMENT H**