



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, SOUTHWESTERN DIVISION
1100 COMMERCE STREET
DALLAS, TX 75242-1317

SEP 13 2018

CESWD-PDC

MEMORANDUM FOR Commander, Little Rock District (CESWL)

SUBJECT: Approval of the Design and Implementation Phase Review Plan for Prairie Creek and Tributaries, Russellville, Arkansas Section 205 Project.

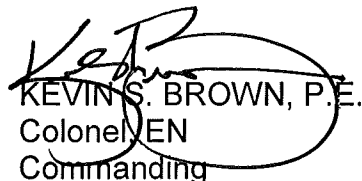
1. References:

- a. Memorandum for Commander, Southwestern Division (CESWD-PDC),
Subject: Approval of the Review Plan for Prairie Creek and Tributaries,
Russellville, Arkansas Section 205 Project.
- b. EC 1165-2-217, Civil Works Review Policy dated 20 February 2018

2. The subject Design and Implementation Review Plan (RP) as enclosed is approved and Southwestern Division concurs in the conclusion that an independent external peer review of this project is not necessary. In accordance with reference 1b, the RP complies with all applicable policy and provides an adequate independent technical review for the Continuing Authorities Program Section 205 project. As the RP is a living document, it should be monitored and amended as appropriate.

3. An electronic copy of this Division approval letter and RP should be posted to the Little Rock District website along with the Project Partnership Agreement no later than 5 days after receipt of this memorandum. For compliance purposes to receive funding in the FY19 Work plan, the date of this memorandum should be shown in the CAP Database as actual for the CW035 Posted Peer Review Plan milestone.

4. Any questions should be addressed to Ms. Lanora Wright, CAP Program Manager, (469) 487-7032.


KEVIN S. BROWN, P.E.
Colonel EN
Commanding

REVIEW PLAN

**Prairie Creek and Tributaries,
Russellville, Arkansas
Flood Risk Damage Reduction
Section 205 Project**

Little Rock District

**MSC Approval Date: September 13, 2018
Last Revision Date: February 13, 2016**



**US Army Corps
of Engineers®**

**IMPLEMENTATION PHASE REVIEW PLAN
USING THE PROGRAMMATIC REVIEW PLAN MODEL**

Prairie Creek and Tributary,
Russellville, Arkansas
Section 205 Project

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1. PURPOSE AND REQUIREMENTS

Purpose. This Review Plan defines the scope and level of peer review in accordance with EC 1165-2-217, for the Prairie Creek and Tributary, Russellville, Arkansas, Section 205 project for design and implementation.

Section 205 of the Flood Control Act of 1948, as amended, authorizes USACE to study, design and construct flood risk management projects. It is a Continuing Authorities Program (CAP) project which focuses on water resource related projects of relatively smaller scope, cost and complexity.

Traditional USACE civil works projects are of wider scope and complexity and are specifically authorized by Congress. The Continuing Authorities Program is a delegated authority to plan, design, and construct certain types of water resource and environmental restoration projects without specific Congressional authorization. The Federal share of costs for any one **Section 205** project may not exceed \$10,000,000. Additional Information on this program can be found in Engineering Regulation 1105-2-100, Planning Guidance Notebook, Appendix F.

- a. **Applicability.** This review plan is based on the model Programmatic Review Plan for **Section 205** project decision documents, which is applicable to projects that do not have a total project cost in excess of \$200 million and do not require an EIS. If the estimated project cost exceeds \$200 million or an EIS is required, the model Programmatic Review Plan is not applicable and a study specific review plan must be prepared by the home district, coordinated with the Flood Risk Management Planning Center of Expertise (FRM-PCX) and approved by the home Major Subordinate Command (MSC) in accordance with EC 1165-2-217.

Applicability of the model Programmatic Review Plan for a specific project is determined by the home MSC. If the MSC determines that the model plan is applicable for a specific study, the MSC Commander may approve the plan without additional coordination with the FRM-PCX or Headquarters, USACE.

b. References

- (1) Engineering Circular (EC) 1165-2-217, Water Resources Policies and Authorities, Civil Works Review, 20 Feb 2018.
- (2) Director of Civil Works' Policy Memo #1, CAP Planning Process Improvements, Jan 19, 2011
- (3) EC 1105-2-412, Assuring Quality of Planning Models, 31 Mar 2011
- (4) Engineering Regulation (ER) 1110-1-12, Quality Management, 30 Sep 2006
- (5) ER 1105-2-100, Planning Guidance Notebook, Appendix F, Continuing Authorities Program, Amendment #2, 31 Jan 2007
- (6) Prairie Creek and Trib, Russellville, Arkansas, Section 205 Project Management Plan

- c. **Requirements.** This programmatic review plan was developed in accordance with EC 1165-2-217, which establishes an accountable, comprehensive, life-cycle review strategy for Civil Works products by providing a seamless process for review of all Civil Works projects from initial planning through design, construction, and operation, maintenance, repair, replacement and rehabilitation (OMRR&R). The EC outlines four general levels of review: District Quality Control/Quality Assurance (DQC), Agency Technical Review (ATR), Independent External Peer Review (IEPR), and Policy and Legal Compliance Review.

2. REVIEW MANAGEMENT ORGANIZATION (RMO) COORDINATION

The RMO is responsible for managing the overall peer review effort described in this review plan. The RMO for Section 205 decision documents and IEPR decisions is the home MSC. Southwestern Division (SWD), the MSC, will coordinate and approve the review plan. The Little Rock District will post the approved review plan on its public website at <http://www.swl.usace.army.mil/Missions/Planning/ApprovedProjectReviewPlans.aspx>. A copy of the approved review plan (and any updates) will be provided to the Risk Management Center to keep them apprised of requirements and review schedules pertaining to the Type II Independent External Peer Review or Safety Assurance Review.

3. PROJECT INFORMATION

- a. **Decision Document.** A Feasibility Study was conducted in cooperation between the Little Rock District of the Corps of Engineers and the City of Russellville, Arkansas, the local project sponsor, to address flooding issues along Prairie Creek and its tributaries in Russellville. The city is located adjacent to the Arkansas River in central Arkansas. The feasibility report was approved by Southwestern Division 4 January 2016. An Environmental Assessment (EA) was prepared and Finding of No Significant Impact (FONSI) was signed 30 August 2015.
- b. **Project Description.** The overall problem is flooding along Prairie Creek and its tributaries. As development has occurred along the creek and its tributaries, the runoff has increased causing flooding in the downtown commercial, residential, and public facilities. This flooding causes traffic and safety hazards through the commercial heart of Russellville. The principal cause of the flood problems are insufficient channel size and constrictions from narrow bridges and culverts. Prairie Creek currently consists of vertical wall culverts or open channels. Narrow bridges and undersized culverts along Prairie Creek and its tributary, Engineers Ditch, contribute to the flooding. The project plan consists of installing two – eight foot culverts at the railroad bridge crossing Engineers Ditch. Along 2.2 miles of Prairie Creek at Reaches 4 and 5, the channel will be widened to a 20 foot bottom width with 1 Vertical to 2.5 Horizontal side slopes. At Prairie Creek Reach 3, the channel will be widened to 45 or 50 feet depending on the sub reach section. At Commerce and West Parkway, box culverts will replace the bridges. The North El Paso culverts will be cleaned. The estimated project first cost is \$13,714,600 at an Oct 2014 price level. The 3.6 benefit to cost ratio is computed at an interest rate of 3.375 percent with a two year construction period. The project will remove 28 (13%) of the 218 structures from the 100-year floodplain while reducing the 100-flood event flood damages by \$11, 893,300 (41%). The project removes 44 (21%) of the 211 structures in the 50-year flood plain and reduces flood damages by \$12,255,900 (50%). The Figure 1 shows Prairie Creek and Engineers Ditch.

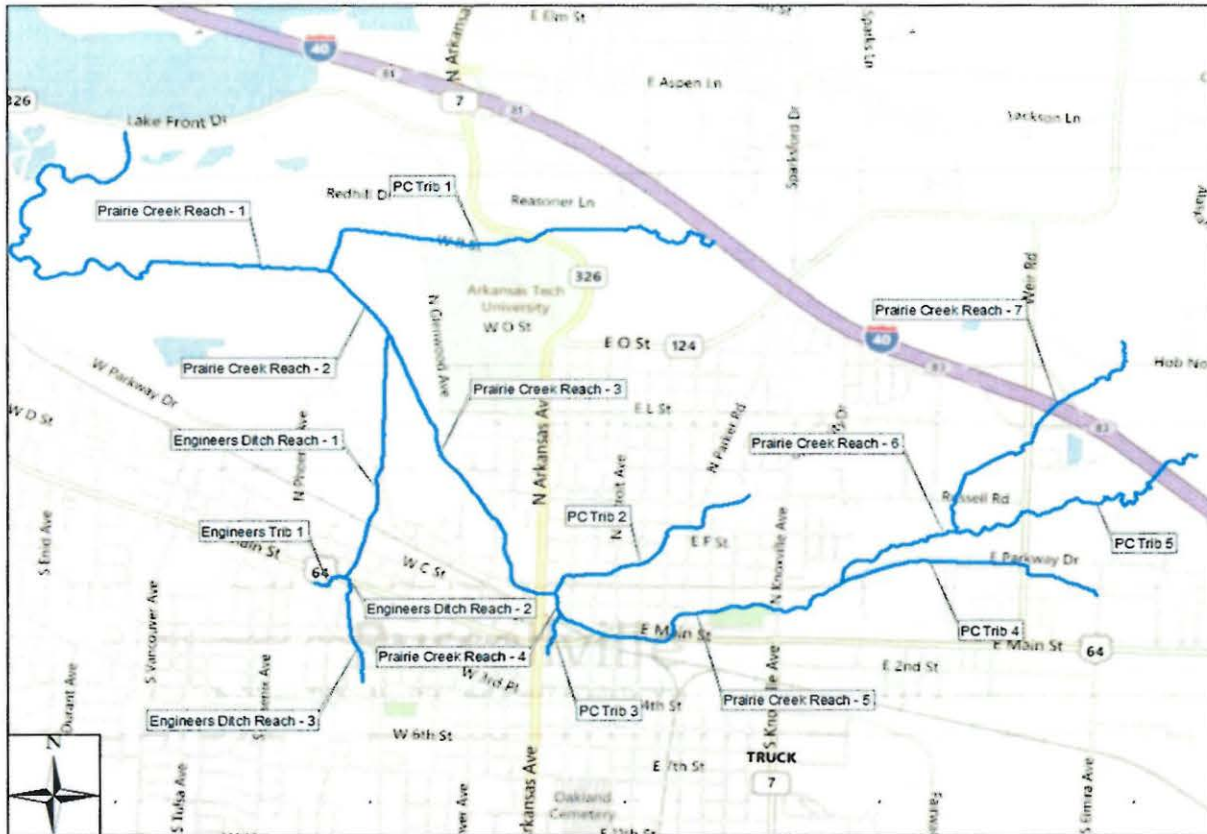


Figure 1: Prairie Creek Stream Network

c. Factors Affecting the Scope and Level of Review. Plans and Specifications for the project are initiated. The Project Partnership Agreement was signed on 24 June 2016. The Prairie Creek and Engineers Ditch channel work are fairly simple in design. Overall, the Prairie Creek and Tributaries, Russellville Arkansas, project will not likely have significant economic, environmental, or social effects to the nation, as both the scope of the project and size of the study area are fairly small. The approved Detailed Project Report did not contain any influential, controversial, precedent-setting or novel scientific information, models, or methodologies, and it adhered to approved Corps policy and guidance in all aspects of the analysis. It is unlikely to have any significant interagency interest. There are no potential hazards in this project that pose a significant threat to human life. A risk during construction would be Prairie Creek or Engineers Ditch flooding. Construction scheduling would have to take flooding into account.

d. In-Kind Contributions. The Sponsor obtained rights of entry for the borings contract and may do some channel excavation in conjunction with doing relocations.

4. DISTRICT QUALITY CONTROL (DQC)

All implementation documents (including supporting data, analyses, environmental compliance documents, etc.) shall undergo DQC. DQC is an internal review process of basic science and engineering work products focused on fulfilling the project quality requirements defined in the Project Management Plan (PMP). The home district shall manage DQC. Documentation of DQC activities is required and should be in accordance with the Quality Manual of the District and SWD.

5. AGENCY TECHNICAL REVIEW (ATR)

ATR is mandatory for all decision and implementation documents (including supporting data, analyses, environmental compliance documents, etc.). The objective of ATR is to ensure consistency with established criteria, guidance, procedures, and policy. The ATR will assess whether the analyses presented are technically correct and comply with published USACE guidance, and that the document explains the analyses and results in a reasonably clear manner for the public and decision makers. ATR is managed within USACE by the designated RMO that is SWD for this Section 205 project that does not modify dams or levee systems. ATR is conducted by a qualified team from outside the home district that is not involved in the day-to-day production of the project/product. ATR teams will be comprised of senior USACE personnel and may be supplemented by outside experts as appropriate.

- a. **Products to Undergo ATR.** ATR will be performed on the plans and specifications.
- b. **Required ATR Team Expertise.**

ATR Team Members/Disciplines	Expertise Required
ATR Lead/Civil Engineering	The ATR lead should be a senior professional with experience in Section 205 and flood risk management projects. The lead is to have the necessary skills and experience to lead a virtual team through the ATR process. The ATR lead will also serve as the reviewer for civil engineering with experience in utility relocations including water and sewer, drainage channels, roads and sidewalk, covered channel culverts, and railroad relocations. The ATR Lead will be from outside the home District.
Real Estate	The real estate review member will be experienced in Federal civil works real estate laws, policies and guidance as they pertain to Section 205/flood risk management projects. The RE ATR reviewer will be a senior RE professional selected from the Nationally approved RE ATR list.
Structural Engineering	The structural engineering reviewer will be an expert in the field of structure components including channel retaining walls and invert and road and railroad culverts. A certified professional engineer is required.
Geotechnical Engineering	The geotechnical engineering reviewer will be an expert in the field of soils and stability and have a thorough understanding and experience in channel modification projects as well as construction and excavation of varying soil types. A certified professional engineer is required.
Electrical Engineering	The electrical engineering reviewer will have a thorough understanding of lightening and electrical/cable/telephone utility relocations. A certified professional engineer is required.
Cost Engineering	Review can be conducted by the MCX or by regional precertified cost person as designated by the Walla Walla Cost MCX.

Documentation of ATR. DrChecks review software will be used to document all ATR comments, responses and associated resolutions accomplished throughout the review process. Comments should be limited to those that are required to ensure adequacy of the product. Any editorial comments should be provided informally by email to the PDT. The four key parts of a quality review comment will normally include:

- (1) The review concern – identify the product’s information deficiency or incorrect application of policy, guidance, or procedures;
- (2) The basis for the concern – cite the appropriate law, policy, guidance, or procedure that has not been properly followed;
- (3) The significance of the concern – indicate the importance of the concern with regard to its potential impact on the plan selection, recommended plan components, efficiency (cost), effectiveness (function/outputs), implementation responsibilities, safety, Federal interest, or public acceptability; and
- (4) The probable specific action needed to resolve the concern – identify the action(s) that the reporting officers must take to resolve the concern.

In some situations, especially addressing incomplete or unclear information, comments may seek clarification in order to then assess whether further specific concerns may exist.

The ATR documentation in DrChecks will include the text of each ATR concern, the PDT response, a brief summary of the pertinent points in any discussion, including any vertical team coordination (the vertical team includes the district, RMO, MSC, and HQUSACE), and the agreed upon resolution. If an ATR concern cannot be satisfactorily resolved between the ATR team and the PDT, it will be elevated to the vertical team for further resolution in accordance with the policy issue resolution process described in either ER 1110-2-12 or ER 1105-2-100, Appendix H, as appropriate. Unresolved concerns can be closed in DrChecks with a notation that the concern has been elevated to the vertical team for resolution.

At the conclusion of each ATR effort, the ATR team will prepare a Review Report summarizing the review. Review Reports will be considered an integral part of the ATR documentation and shall:

- Identify the document(s) reviewed and the purpose of the review;
- Disclose the names of the reviewers, their organizational affiliations, and include a short paragraph on both the credentials and relevant experiences of each reviewer;
- Include the charge to the reviewers;
- Describe the nature of their review and their findings and conclusions;
- Identify and summarize each unresolved issue (if any); and
- Include a verbatim copy of each reviewer's comments (either with or without specific attributions), or represent the views of the group as a whole, including any disparate and dissenting views.

ATR may be certified when all ATR concerns are either resolved or referred to the vertical team for resolution and the ATR documentation is complete. The ATR Lead will prepare a Statement of Technical Review certifying that the issues raised by the ATR team have been resolved (or elevated to the vertical team). A sample Statement of Technical Review is included in Attachment 2.

6. INDEPENDENT EXTERNAL PEER REVIEW (IEPR)

IEPR may be required for decision documents under certain circumstances. IEPR is the most independent level of review, and is applied in cases that meet certain criteria where the risk and

magnitude of the proposed project are such that a critical examination by a qualified team outside of USACE is warranted. A risk-informed decision, as described in EC 1165-2-217, is made as to whether IEPR is appropriate. IEPR panels will consist of independent, recognized experts from outside of the USACE in the appropriate disciplines, representing a balance of areas of expertise suitable for the review being conducted. There are two types of IEPR:

- **Type I IEPR.** Type I IEPR reviews are managed outside the USACE and are conducted on project studies. Type I IEPR panels assess the adequacy and acceptability of the economic and environmental assumptions and projections, project evaluation data, economic analysis, environmental analyses, engineering analyses, formulation of alternative plans, methods for integrating risk and uncertainty, models used in the evaluation of environmental impacts of proposed projects, and biological opinions of the project study. Type I IEPR will cover the entire decision document or action and will address all underlying engineering, economics, and environmental work, not just one aspect of the study. For decision documents where a Type II IEPR (Safety Assurance Review) is anticipated during project implementation, safety assurance shall also be addressed during the Type I IEPR per EC 1165-2-217.

For Section 103 and 205 decision documents prepared under the model Programmatic Review Plan, Type I IEPR may or may not be required.

- **Type II IEPR.** Type II IEPR, or Safety Assurance Review (SAR), are managed outside the USACE and are conducted on design and construction activities for hurricane, storm, and flood risk management projects or other projects where existing and potential hazards pose a significant threat to human life. Type II IEPR panels will conduct reviews of the design and construction activities prior to initiation of physical construction and, until construction activities are completed, periodically thereafter on a regular schedule. The reviews shall consider the adequacy, appropriateness, and acceptability of the design and construction activities in assuring public health, safety, and welfare.

For Section 103 and 205 decision documents prepared under the model Programmatic Review Plan, Type II IEPR may or may not be anticipated to be required in the design and implementation phase. The decision on whether Type II IEPR is required will be verified and documented in the review plan prepared for the design and implementation phase of the project.

Decision on IEPR. The project decision document is completed and Type I IEPR was not required. Type II IEPR, SAR, is not required. The project does not have potential hazards that pose a significant threat to human life (public safety). On 12 Apr 2018, the CESWL Chief of Engineering and Construction Division determined that SAR is not required for the design and construction of this flood risk management project. See Attachment 4.

7. POLICY AND LEGAL COMPLIANCE REVIEW

All implementation documents and updates to decision documents will be reviewed throughout the study process for their compliance with law and policy. Guidance for policy and legal compliance reviews is addressed in Appendix H, ER 1105-2-100. These reviews culminate in determinations that the recommendations in the reports and the supporting analyses and coordination comply with law and policy, and warrant approval or further recommendation to higher authority by the home MSC

Commander. DQC and ATR augment and complement the policy review processes by addressing compliance with pertinent published Army policies, particularly policies on analytical methods and the presentation of findings in decision documents.

The decision document was approved by the SWD Commander. The final plans and specifications will contain an engineering certification following completion of ATR. The project will undergo BCOE certification in accordance with ER 415-1-11.

8. COST ENGINEERING DIRECTORY OF EXPERTISE (DX) REVIEW AND CERTIFICATION

All decision documents shall be coordinated with the Cost Engineering DX, located in the Walla Walla District. For decision documents prepared under the model Programmatic Review Plan, Regional cost personnel that are pre-certified by the DX will conduct the cost engineering ATR. The DX will provide the Cost Engineering DX certification. The RMO will coordinate with the Cost Engineering DX on the selection of the cost engineering ATR team member.

9. VALUE ENGINEERING

Value Engineering shall be performed for projects equal or greater than \$10 million in during the PED phase. VE shall be performed in according to the current ER 11-1-321. However, the VE strategies could be determined by Value Management Plan (VMP) via the Screening Tool for VE compliance.

10. MODEL REVIEW

The approval of planning models under EC 1105-2-412 is not required for CAP projects. MSC Commanders are responsible for assuring models for all planning activities are technically and theoretically sound, compliant with USACE policy, computationally accurate, and based on reasonable assumptions. Therefore, the use of a certified/approved planning model is highly recommended should be used whenever appropriate. Planning models are defined as any models and analytical tools that planners use to define water resources management problems and opportunities, to formulate potential alternatives to address the problems and take advantage of the opportunities, to evaluate potential effects of alternatives and to support decision making. The selection and application of the model and the input and output data is still the responsibility of the users and is subject to DQC, ATR, and IEPR (if required).

The responsible use of well-known and proven USACE developed and commercial engineering software will continue and the professional practice of documenting the application of the software and modeling results will be followed. As part of the USACE Scientific and Engineering Technology (SET) Initiative, many engineering models have been identified as preferred or acceptable for use on Corps studies and these models should be used whenever appropriate. The selection and application of the model and the input and output data is still the responsibility of the users and is subject to DQC, ATR, and IEPR (if required).

- a. **Planning Models.** No planning models will be used during the implementation phase.
- b. **Engineering Models.** The following engineering models were used in the development of the decision document and plans and specifications:

Model and Version	Brief Description of the Model and How It Will Be Applied in the Study
HEC-RAS 4.1.0	Hydrologic Engineering Center's HEC-RAS model was used to do a backwater model to compute the water surface profiles.
HEC-HMS 3.5	The HEC-HMS model, developed by the Hydrologic Engineering Center, was used to run the rainfall runoff and compute discharge hydrographs.

REVIEW SCHEDULES AND COSTS

- c. **ATR Schedule and Cost.** ATR of 90% plans and specifications is scheduled to start in Jan 2019 and end Feb 2019. The cost of ATR is estimated at \$24,000. Operations will review plans prior to ATR.
- d. **Type II IEPR Schedule and Cost.** Not applicable.
- e. **Model Review Schedule and Cost.** Only approved models will be used for this project.

11. PUBLIC PARTICIPATION

During the feasibility study, meetings have been held with city management. Preparation of the Environmental Assessment included agency and public notification of the proposal. Local officials fully support the recommended plan. The study underwent a public review and comment period of thirty days in accordance with the Intergovernmental Review of Federal Programs (EO 12372) and received no negative comments. Additional public and agency coordination will occur in the construction phase. State and Federal resource agencies will be contacted to ensure all the obtained permits are current and appropriate.

12. REVIEW PLAN APPROVAL AND UPDATES

The home MSC Commander is responsible for approving this review plan and ensuring that use of the Model Programmatic Review Plan is appropriate for the specific project covered by the plan. The review plan is a living document and may change as the study progresses. The home district is responsible for keeping the review plan up to date. Minor changes to the review plan since the last MSC Commander approval are documented in Attachment 4. Significant changes to the review plan (such as changes to the scope and/or level of review) should be re-approved by the MSC Commander following the process used for initially approving the plan. Significant changes may result in the MSC Commander determining that use of the Model Programmatic Review Plan is no longer appropriate. In these cases, a project specific review plan will be prepared and approved in accordance with EC 1165-2-217. The latest version of the review plan, along with the Commanders' approval memorandum, will be posted on the Little Rock District's webpage.

13. REVIEW PLAN POINTS OF CONTACT

Public questions and/or comments on this review plan can be directed to the following points of contact: Project Manager, Planning, (501) 324-5602

ATTACHMENT 1: TEAM ROSTERS

Project Delivery Team:

Project Management
Civil Engineering
Structural Engineering
Geotechnical Engineer
Cost Engineering
Electrical Engineering
Value Engineering
Hydrology & Hydraulics
Contracting
Real Estate

District Quality Control Team:

Structural Engineering
Geotechnical Engineering
Electrical Engineering
Cost Engineering
Civil Engineering
Construction Management
Hydrology and Hydraulics
Real Estate

Agency Technical Review Team

Structural Engineer
Geotechnical Engineer
Civil Engineer
Cost Engineer
Electrical Engineer
Real Estate

ATTACHMENT 2: SAMPLE STATEMENT OF TECHNICAL REVIEW FOR IMPLEMENTATION DOCUMENTS

COMPLETION OF AGENCY TECHNICAL REVIEW

The Agency Technical Review (ATR) has been completed by the ATR team for the 90 percent design of the Prairie Creek and Trib, Russellville, Arkansas Sec 205 project, see attached summary of unresolved issues and future commitments, the Charge questions, a brief resume of ATR reviewers, and a printout of all DrChecks comments with resolution. The ATR was conducted as defined in the project's Review Plan to comply with the requirements of EC 1165-2-217. During the ATR, compliance with established policy principles and procedures, utilizing justified and valid assumptions, was verified. This included review of: assumptions, methods, procedures, and material used in analyses, alternatives evaluated, the appropriateness of data used and level obtained, and reasonableness of the results, including whether the product meets the customer's needs consistent with law and existing USACE policy. The ATR also assessed the District Quality Control (DQC) documentation and made the determination that the DQC activities employed appear to be appropriate and effective. All comments resulting from the ATR have been resolved or have been elevated and are attached. All comments in DrCheckssm are closed.

____ Signature _____

Name

ATR Team Leader

Office Symbol

Date

____ Signature _____

Name

Project Manager

Office Symbol

Date

____ Signature _____

Name

Review Management Office Representative

Office Symbol

Date

CERTIFICATION OF AGENCY TECHNICAL REVIEW

Significant concerns and the explanation of the resolution are as follows: Describe the major technical concerns and their resolution.

As noted above, all concerns resulting from the ATR of the project have been fully resolved.

____ SIGNATURE _____

Name

Chief, Engineering and Construction Division

Office Symbol

Date

ATTACHMENT 3: ACRONYMS AND ABBREVIATIONS

<u>Term</u>	<u>Definition</u>	<u>Term</u>	<u>Definition</u>
AFB	Alternative Formulation Briefing	NED	National Economic Development
ASA(CW)	Assistant Secretary of the Army for Civil Works	NER	National Ecosystem Restoration
ATR	Agency Technical Review	NEPA	National Environmental Policy Act
CAP	Continuing Authorities Program	O&M	Operation and maintenance
CSDR	Coastal Storm Damage Reduction	OMB	Office and Management and Budget
DPR	Detailed Project Report	OMRR&R	Operation, Maintenance, Repair, Replacement and Rehabilitation
DQC	District Quality Control/Quality	OEO	Outside Eligible Organization
DX	Directory of Expertise	OSE	Other Social Effects
EA	Environmental Assessment	PCX	Planning Center of Expertise
EC	Engineer Circular	PDT	Project Delivery Team
EIS	Environmental Impact Statement	PAC	Post Authorization Change
EO	Executive Order	PMP	Project Management Plan
ER	Ecosystem Restoration	PL	Public Law
FDR	Flood Damage Reduction	QMP	Quality Management Plan
FEMA	Federal Emergency Management	QA	Quality Assurance
FRM	Flood Risk Management	QC	Quality Control
FSM	Feasibility Scoping Meeting	RED	Regional Economic Development
GRR	General Reevaluation Report	RMC	Risk Management Center
Home District/M	The District or MSC responsible for the preparation	RMO	Review Management Organization
HQUSACE	Headquarters, U.S. Army Corps of Engineers	RTS	Regional Technical Specialist
IEPR	Independent External Peer Review	SAR	Safety Assurance Review
ITR	Independent Technical Review	SWD	Southwestern Division
LRR	Limited Reevaluation Report	SWL	Little Rock District
MCX	Mandatory Center of Expertise	USACE	U.S. Army Corps of Engineers
MSC	Major Subordinate Command	WRDA	Water Resources Development Act

Table 4 Acronyms and Abbreviations

ATTACHMENT 4: Type II IEPR SAFETY ASSURANCE REVIEW (SAR) ASSESMENT DETERMINATION

The Chief of Engineering and Construction, Little Rock District, as the Engineer-In-Responsible-Charge, has determined that a Type II IEPR (SAR) ASSESMENT is not required to be conducted on the Prairie Creek and Tributary Section 205 project's design and construction activities. The assessment concluded that there are not potential hazards that pose a significant threat to human life as documented below.

The following are examples where a SAR should be seriously considered if a significant life safety risk is identified and whether they apply to this project:

1. Major rehabilitation of a deficiency for a hurricane and storm damage risk reduction or flood risk management project for a densely populated area. -NA
2. Modifications to the line of flood risk reduction. -The line of flood risk reduction will be greater; thus, it will not pose a significant threat to human life.
3. Modifications that could introduce new failure modes or lead to progression of existing failure modes that could result in the potential for loss of life. - Modifications will not cause a new failure mode nor cause progression of a failure mode.
4. In the case of a coastal storm risk management project, the expected impact of project- feature failures on loss of life must be assessed to make the SAR determination. This criteria is not all-inclusive; reasonable conclusions need to be drawn and each project requires an assessment by the District Chief of Engineering. -NA

Decisions concerning what is "significant" loss of life cannot be reduced to a simple number; it is a combination of the consequences and the likelihood of failure. Not all projects or modifications to projects rise to the level of concern that the Chief of Engineers would determine the project would benefit from a SAR. Appropriate USACE risk assessments for projects previously performed were considered in this determination.

For comparison, the following situations that might pose significant threat to human life provide contrasting examples—one that typically would and one that typically would not be determined to pose such risk.

5. A new dam above a community would require a SAR. However, if the offices within an existing dam are being renovated and the work will not affect the dam operation, that project would not require a SAR. -NA
6. A levee section being replaced next to an adjacent residential area would require a SAR. However, an agricultural levee being raised a few inches to account for settlement would not require a SAR. -NA
7. A new set of spillway gates for a high hazard potential dam would require a SAR. However, if a single gate out of six gates for an intake structure is being replaced in-kind and results of its failure would be contained within the downstream safe channel capacity, the project would not require a SAR. -NA

8. A new hydro-electric generator unit replacing an existing unit for a high-lift navigation dam would require a SAR. However, if a new miter gate is being replaced on a low-lift navigation lock where failure of the gate would not cause flooding to exceed the flood stage, the project would not require a SAR. -NA
9. A new coastal protection system including berms for a community would require a SAR. However, a beach re-nourishment project that does not affect life safety does not require a SAR. -NA
10. Repairs for a slide on a dam crest (for a dam with a potential for life loss) being that are performed with emergency funding when there is time to wait until the low-flow season to make the correction will require a SAR. However, where time is of the essence to save the dam, a SAR is not required, allowing for maximum expediency. -NA
11. A temporary cofferdam that will serve part of the levee alignment for a levee with potential for life loss requires a SAR. However, a temporary cofferdam for which breach would not pose a life safety risk (albeit the workers inside are vulnerable) does not rise to the level that SAR is required. -NA
12. For a new U-framed flood relief channel that is built in a congested city that has steep flow gradients and is designed with super-critical flows to lessen impact on available real estate, would require a SAR since failure of the wall could cause blockage and flood the city. However, a new concrete lined flood relief channel that is built below grade with a gentle flow gradient would not require a SAR. -NA for the first condition. Second condition is relevant to Prairie Creek that would likewise not require a SAR
13. A new set of spillway gates for a high hazard potential dam would require a SAR. However, if a single gate out of six gates for an intake structure is being replaced in-kind and results of its failure would be contained within the downstream safe channel capacity, the project would not require a SAR. -NA
14. For a 33 USC 408 (Section 408) request to place new utilities across the toe of a dam and across the spillway, such that these modifications introduce new failure modes, a SAR will be required. However, if the Section 408 requester is building a hydropower project on a low-head navigation project, it would not require a SAR. -NA
15. A new Water Control Manual (WCM) that was put in place due to a water reallocation reducing flood control storage would require a SAR because it introduces new failure modes. However, a minor modification to the WCM not involving concern for life safety would not require a SAR. -NA

Other factors to consider for deciding whether to conduct a Type II review of a project or project components considered are:

1. The project involves the use of innovative materials or techniques and the engineering is based on novel methods, presents complex challenges for interpretations, contains precedent-setting methods or models, or presents conclusions that are likely to change prevailing practices. -NA, project uses standard methods and prevailing practices.

2. The project design requires redundancy, resiliency, and robustness. –NA, note that unlike a dam or levee, the Prairie Creek and Engineers Ditch flood reduction measures would not incur a significant threat of loss of life during adverse conditions that requires adding redundancy, resiliency, and robustness.
 - 2.1 Redundancy is the duplication of critical components of a system with the intention of increasing reliability of the system, usually in the case of a backup or fail-safe.
 - 2.2 Resiliency. Resiliency is the ability to avoid, minimize, withstand, and recover from the effects of adversity, whether natural or manmade, under all circumstances of use.
 - 2.3 Robustness. Robustness is the ability of a system to continue to operate correctly across a wide range of operational conditions (the wider the range of conditions, the more robust the system), with minimal damage, alteration, or loss of functionality; and to fail gracefully outside of that range.
3. The project has unique construction sequencing or a reduced or overlapping design construction schedule; for example, significant project features accomplished using the Design- Build or Early Contractor Involvement delivery systems. –NA, project is using a standard design and construction schedule.

Determination:

MEMORANDUM FOR RECORD

SUBJECT: Prairie Creek and Tributaries, Russellville, Arkansas, Section 205 Project, Type II IEPR-Safety Assurance Review (SAR) Determination

I have determined that a safety assurance review is not necessary for the design and construction of the approved Prairie Creek Section 205 flood risk management project that is under design in Little Rock District. The project consists of a 2.2-mile long open channel to convey floodwaters out of downtown Russellville, Arkansas, to the sump area for the Russellville Dike and Pump Station at the Arkansas River. On Prairie Creek, the channel widening construction requires four building demolitions and replacing two bridges with covered channel crossings at the city streets of Commerce Ave. and West Parkway Dr. At Engineers Ditch, two culverts are to be installed alongside the Union Pacific Railroad Bridge. There are no potential hazards in this project that pose a significant threat to human life.



Craig Pierce, P.E., PMP
Chief, Engineering & Construction Division
Little Rock District

ATTACHMENT 4

ATTACHMENT 5: REVIEW PLAN REVISIONS

Revision Date	Description of Change	Page / Paragraph Number

Table 5 Review Plan Revisions

PROJECT PARTNERSHIP AGREEMENT
BETWEEN
THE DEPARTMENT OF THE ARMY
AND
THE CITY OF RUSSELLVILLE, ARKANSAS,
FOR
DESIGN AND CONSTRUCTION
OF THE
PRAIRIE CREEK AND TRIBUTARIES, RUSSELLVILLE, ARKANSAS,
SECTION 205 PROJECT

THIS AGREEMENT is entered into this 24th day of June, 2016, by and between the Department of the Army (hereinafter the "Government"), represented by the U.S. Army Engineer, Little Rock District and the City of Russellville, Arkansas, (hereinafter the "Non-Federal Sponsor"), represented by the Mayor.

WITNESSETH, THAT:

WHEREAS, design and construction of the Prairie Creek And Tributaries, Russellville, Arkansas, Section 205 Project for flood risk management (hereinafter the "*Project*", as defined in Article I.A. of this Agreement) at Russellville, Arkansas, was approved by the Commander, Southwestern Division on January 4, 2016, pursuant to the authority contained in Section 205 of the Flood Control Act of 1948, Public Law 80-858, as amended (33 U.S.C. 701s; hereinafter "Section 205");

WHEREAS, the Secretary of the Army is authorized by Section 205 to allot from certain appropriations an amount not to exceed \$55,000,000 per *fiscal year* for the implementation of small structural and nonstructural projects for flood control and related purposes; provided that no more than \$10,000,000 shall be allotted for a project at any single locality;

WHEREAS, the Government and the Non-Federal Sponsor desire to enter into a Project Partnership Agreement (hereinafter the "Agreement") for design and construction of the *Project*;

WHEREAS, Section 103 of the Water Resources Development Act of 1986, Public Law 99-662, as amended (33 U.S.C. 2213) specifies the cost-sharing requirements applicable to the *Project*;

WHEREAS, the Non-Federal Sponsor does not qualify for a reduction of the non-Federal cost share for flood control pursuant to the guidelines that implement Section 103(m) of the Water Resources Development Act of 1986, Public Law 99-662, as amended (33 U.S.C. 2213(m));

WHEREAS, Section 215 of the Flood Control Act of 1968, Public Law 90-483, as amended (42 U.S.C. 1962d-5a; hereinafter "Section 215"), provides that the Secretary of the Army may, when he determines it to be in the public interest, enter into agreements providing for credit to States or political subdivisions thereof for the costs of certain work performed by such non-Federal bodies at authorized water resources development projects;

WHEREAS, the Non-Federal Sponsor desires to perform certain work (hereinafter the "*Section 215 work*" as defined in Article I.N. of this Agreement) which is a part of the *Project* and receive credit pursuant to Section 215 for the costs of such work;

WHEREAS, it has been determined that providing the Non-Federal Sponsor credit toward the amount of its required contributions for the *Project* for the costs of the *Section 215 work* to be accomplished by the Non-Federal Sponsor pursuant to this Agreement is in the public interest;

WHEREAS, Section 215 limits the amount of credit that may be provided for a single project to no more than \$7,000,000 or 1 percent of *total project costs*, whichever is greater;

WHEREAS, Section 221 of the Flood Control Act of 1970, Public Law 91-611, as amended (42 U.S.C. 1962d-5b), and Section 103(j) of the Water Resources Development Act of 1986, Public Law 99-662, as amended (33 U.S.C. 2213(j)), provide, *inter alia*, that the Secretary of the Army shall not commence construction of any water resources project, or separable element thereof, until each non-Federal interest has entered into a written agreement to furnish its required cooperation for the project or separable element;

WHEREAS, the Government and Non-Federal Sponsor have the full authority and capability to perform as hereinafter set forth and intend to cooperate in cost-sharing and financing of the *Project* in accordance with the terms of this Agreement; and

WHEREAS, the Government and the Non-Federal Sponsor, in connection with this Agreement, desire to foster a partnering strategy and a working relationship between the Government and the Non-Federal Sponsor through a mutually developed formal strategy of commitment and communication embodied herein, which creates an environment where trust and teamwork prevent disputes, foster a cooperative bond between the Government and the Non-Federal Sponsor, and facilitate the successful implementation of the *Project*.

NOW, THEREFORE, the Government and the Non-Federal Sponsor agree as follows:

ARTICLE I - DEFINITIONS

A. The term "*Project*" shall mean 2.2 miles of channel widening on Prairie Creek including the construction of culverts at Commerce and West Parkway Streets and the

addition of culverts under the railroad on Engineers Ditch as generally described in the Prairie Creek and Tributaries, Russellville, Arkansas, Detailed Project Report, dated August 2015, and approved by the Commander, Southwestern Division on January 4, 2016.

B. The term "*total project costs*" shall mean the sum of all costs incurred by the Non-Federal Sponsor and the Government in accordance with the terms of this Agreement directly related to design and construction of the *Project*. Subject to the provisions of this Agreement, the term shall include, but is not necessarily limited to: the Government's design costs; the Government's costs of preparation of environmental compliance documentation in accordance with Article II.A.2. of this Agreement; the Government's engineering and design costs during construction; the Non-Federal Sponsor's and the Government's costs of investigations to identify the existence and extent of hazardous substances in accordance with Article XIV.A. of this Agreement; the Government's costs of historic preservation activities in accordance with Article XVII.A. and Article XVII.C.1. of this Agreement; the Government's actual construction costs, including the costs of alteration, lowering, raising, or replacement and attendant removal of existing railroad bridges and approaches thereto; the costs of the *Section 215 work* determined in accordance with Article II.B.5. of this Agreement; the Government's supervision and administration costs; the Non-Federal Sponsor's and the Government's costs of participation in the Project Coordination Team in accordance with Article V of this Agreement; the Government's costs of contract dispute settlements or awards; the value of lands, easements, rights-of-way, *relocations*, and improvements required on lands, easements, and rights-of-way to enable the disposal of dredged or excavated material for which the Government affords credit in accordance with Article IV of this Agreement or for which reimbursement by the Government is required pursuant to Article II.B.4. of this Agreement; and the Non-Federal Sponsor's and the Government's costs of audit in accordance with Article X.B. and Article X.C. of this Agreement. The term does not include any costs for operation, maintenance, repair, rehabilitation, or replacement of the *Project*; any costs of *betterments* under Article II.H.2. of this Agreement; any costs of dispute resolution under Article VII of this Agreement; the Government's costs for data recovery activities associated with historic preservation in accordance with Article XVII.C.3. and Article XVII.C.4. of this Agreement; or the Non-Federal Sponsor's costs of negotiating this Agreement.

C. The term "*period of design and construction*" shall mean the time from the effective date of this Agreement to the date that construction of the *Project* is complete, as determined by the Government, or the date that this Agreement is terminated in accordance with Article XIII or Article XIV.C. of this Agreement, whichever is earlier.

D. The term "*financial obligations for design and construction*" shall mean the financial obligations of the Government and the costs for the *Section 215 work*, as determined by the Government, that result or would result in costs that are or would be included in *total project costs* except for obligations pertaining to the provision of lands, easements, and rights-of-way, the performance of *relocations*, and the construction of improvements required on lands, easements, and rights-of-way to enable the disposal of dredged or excavated material.

H. The term "*non-Federal proportionate share*" shall mean the ratio of the of the costs included in *total project costs* for the *Section 215 work*, as determined by the Government, and the Non-Federal Sponsor's total contribution of funds required by Article II.B.1., Article II.B.3., and Article II.C.2. of this Agreement to *financial obligations for design and construction*, as projected by the Government.

F. The term "*highway*" shall mean any highway, roadway, street, or way, including any bridge thereof, that is owned by a public entity.

G. The term "*relocation*" shall mean providing a functionally equivalent facility to the owner of a utility, cemetery, *highway*, railroad (excluding existing railroad bridges and approaches thereto), or public facility when such action is authorized in accordance with applicable legal principles of just compensation. Providing a functionally equivalent facility may take the form of alteration, lowering, raising, or replacement and attendant demolition of the affected facility or part thereof.

H. The term "*functional portion of the Project*" shall mean a portion of the *Project* for which construction has been completed and that can function independently, as determined by the U.S. Army Engineer, Little Rock District (hereinafter the "District Engineer") in writing, although the remainder of the *Project* is not complete.

I. The term "*betterment*" shall mean a difference in the design or construction of an element of the *Project* that results from the application of standards that the Government determines exceed those that the Government would otherwise apply to the design or construction of that element. The term does not include any design or construction for features not included in the *Project* as defined in paragraph A. of this Article.

J. The term "*Federal program funds*" shall mean funds provided by a Federal agency, other than the Department of the Army, plus any non-Federal contribution required as a matching share therefor.

K. The term "*Section 205 Project Limit*" shall mean the \$10,000,000 statutory limitation on the Government's financial participation in the planning, design, and construction of the *Project* as specified in Section 205 of the Flood Control Act of 1948, Public Law 80-858, as amended (33 U.S.C. 701s).

L. The term "*Section 205 Annual Program Limit*" shall mean the statutory limitation on the Government's annual allotment for planning, design, and construction of all projects implemented pursuant to Section 205 of the Flood Control Act of 1948, Public Law 80-858, as amended (33 U.S.C. 701s). As of the effective date of this Agreement, such limitation is \$55,000,000.

M. The term "*fiscal year*" shall mean one year beginning on October 1 and ending on September 30.

N. The term "*Section 215 work*" shall mean channel widening at the location of the bridge relocations including the design, construction, supervision and administration, and other activities associated with design and construction of such work performed by the Non-Federal Sponsor after the effective date of this Agreement. The term does not include the design or construction of *betterments* or the provision of lands, easements, rights-of-way, *relocations*, or the construction of improvements required on lands, easements, and rights-of-way to enable the disposal of dredged or excavated material that are associated with the Section 215 work.

O. The term "*fiscal year of the Non-Federal Sponsor*" shall mean one year beginning on January 1 and ending on December 31.

ARTICLE II - OBLIGATIONS OF THE GOVERNMENT AND THE NON-FEDERAL SPONSOR

A. The Government, subject to receiving funds appropriated by the Congress of the United States (hereinafter the "Congress") and using those funds and funds provided by the Non-Federal Sponsor, expeditiously shall design and construct the *Project* (including alteration, lowering, raising, or replacement and attendant removal of existing railroad bridges and approaches thereto), except for the *Section 215 work*, applying those procedures usually applied to Federal projects, in accordance with Federal laws, regulations, and policies. The Non-Federal Sponsor expeditiously shall perform the *Section 215 work* in accordance with applicable Federal laws, regulations, and policies.

1. The Government shall not issue the solicitation for the first contract for design of the *Project* or commence design of the *Project* using the Government's own forces until the Non-Federal Sponsor has confirmed in writing its willingness to proceed with the *Project*.

2. The Government shall develop and coordinate as required, an Environmental Assessment and Finding of No Significant Impact or an Environmental Impact Statement and Record of Decision, as necessary, to inform the public regarding the environmental impacts of the *Project* in accordance with the National Environmental Policy Act of 1969 (42 U.S.C. 4321-4347; hereinafter "NEPA"). However, neither the Government nor the Non-Federal Sponsor shall issue the solicitation for the first construction contract for the *Project* or commence construction of the *Project* using its own forces until all applicable environmental laws and regulations have been complied with, including, but not limited to NEPA and Section 401 of the Clean Water Act (33 U.S.C. 1341).

3. The Government shall afford the Non-Federal Sponsor the opportunity to review and comment on the solicitations for all Government contracts for construction, including relevant plans and specifications, prior to the Government's issuance of such solicitations. To the extent possible, the Government shall afford the Non-Federal Sponsor the opportunity to review and comment on all proposed contract modifications,

including change orders. In any instance where providing the Non-Federal Sponsor with notification of a contract modification is not possible prior to execution of the contract modification, the Government shall provide such notification in writing at the earliest date possible. To the extent possible, the Government also shall afford the Non-Federal Sponsor the opportunity to review and comment on all contract claims prior to resolution thereof. The Government shall consider in good faith the comments of the Non-Federal Sponsor, but the contents of solicitations, award of contracts or commencement of design or construction using the Government's own forces, execution of contract modifications, resolution of contract claims, and performance of all work on the *Project*, except for the *Section 215 work*, shall be exclusively within the control of the Government.

4. At the time the District Engineer furnishes the contractor with the Government's Written Notice of Acceptance of Completed Work for each contract awarded by the Government for the *Project*, the District Engineer shall furnish a copy thereof to the Non-Federal Sponsor.

5. The Non-Federal Sponsor shall afford the Government the opportunity to review and comment on the solicitations for all contracts for the *Section 215 work*, including relevant plans and specifications, prior to the Non-Federal Sponsor's issuance of such solicitations. To the extent possible, the Non-Federal Sponsor shall afford the Government the opportunity to review and comment on all proposed contract modifications, including change orders. In any instance where providing the Government with notification of a contract modification is not possible prior to execution of the contract modification, the Non-Federal Sponsor shall provide such notification in writing at the earliest date possible. To the extent possible, the Non-Federal Sponsor also shall afford the Government the opportunity to review and comment on all contract claims prior to resolution thereof. The Non-Federal Sponsor shall consider in good faith the comments of the Government but, except as otherwise required in paragraph B.5. of this Article, the contents of solicitations, award of contracts or commencement of design or construction using the Non-Federal Sponsor's own forces, execution of contract modifications, resolution of contract claims, and performance of all work on the *Section 215 work* shall be exclusively within the control of the Non-Federal Sponsor.

6. At the time the Non-Federal Sponsor furnishes a contractor with a notice of acceptance of completed work for each contract awarded by the Non-Federal Sponsor for the *Section 215 work*, the Non-Federal Sponsor shall furnish a copy thereof to the Government.

B. The Non-Federal Sponsor shall contribute a minimum of 35 percent, but not to exceed 50 percent, of *total project costs* in accordance with the provisions of this paragraph.

1. The Non-Federal Sponsor shall provide a contribution of funds equal to 5 percent of *total project costs* in accordance with Article VI.B. of this Agreement.

2. In accordance with Article III of this Agreement, the Non-Federal Sponsor shall provide all lands, easements, and rights-of-way, including those required for

relocations, the borrowing of material, and the disposal of dredged or excavated material, shall perform or ensure performance of all *relocations*, and shall construct improvements required on lands, easements, and rights-of-way to enable the disposal of dredged or excavated material that the Government determines to be required or to be necessary for construction, operation, and maintenance of the *Project*.

3. The Non-Federal Sponsor shall provide additional funds in accordance with Article VI.B. of this Agreement in the amount necessary to meet the Non-Federal Sponsor's required minimum share of 35 percent of *total project costs* if the Government projects at any time that the collective value of the following contributions will be less than such required minimum share: (a) the value of the Non-Federal Sponsor's contributions under paragraph B.1. of this Article; (b) the value of the Non-Federal Sponsor's contributions under paragraph B.2. of this Article as determined in accordance with Article IV of this Agreement; and (c) the value of the Non-Federal Sponsor's contributions under Article V, Article X, and Article XIV.A. of this Agreement.

4. The Government, subject to the availability of funds and as limited by paragraph B.7. of this Article, the *Section 205 Project Limit*, and the *Section 205 Annual Program Limit*, shall refund or reimburse to the Non-Federal Sponsor any contributions in excess of 45 percent of *total project costs* if the Government determines at any time that the collective value of the following contributions has exceeded 45 percent of *total project costs*: (a) the value of the Non-Federal Sponsor's contributions under paragraph B.2. of this Article as determined in accordance with Article IV of this Agreement; (b) the value of the Non-Federal Sponsor's contributions under paragraph B.3. of this Article; and (c) the value of the Non-Federal Sponsor's contributions under Article V, Article X, and Article XIV.A. of this Agreement. After such a determination, the Government, in its sole discretion, may acquire any remaining lands, easements, and rights-of-way required for the *Project*, perform any remaining *relocations* necessary for the *Project*, or construct any remaining improvements required on lands, easements, and rights-of-way to enable the disposal of dredged or excavated material required for the *Project* on behalf of the Non-Federal Sponsor. Notwithstanding the acquisition of lands, easements, and rights-of-way, performance of *relocations*, or construction of improvements required on lands, easements, and rights-of-way to enable the disposal of dredged or excavated material by the Government under this paragraph, the Non-Federal Sponsor shall be responsible, as between the Government and the Non-Federal Sponsor, for any costs of cleanup and response in accordance with Article XIV.C. of this Agreement.

5. The Government shall determine and include in *total project costs* any costs incurred by the Non-Federal Sponsor for *Section 215 work*, subject to the conditions and limitations of this paragraph. The Non-Federal Sponsor in a timely manner shall provide the Government with such documents as are sufficient to enable the Government to determine the amount of costs to be included in *total project costs* for *Section 215 work*.

a. The Non-Federal Sponsor shall not commence construction of the *Section 215 work* until the designs, detailed plans and specifications, and

arrangements for the prosecution of such work have been approved by the Government. Changes proposed by the Non-Federal Sponsor to approved designs and plans and specifications also must be approved by the Government in advance of the related construction. Upon completion of the *Section 215 work*, the Non-Federal Sponsor shall furnish to the Government a copy of all final as-built drawings for the construction portion of such work.

b. *Section 215 work* shall be subject to an on-site inspection and certification by the Government that the work was accomplished in a satisfactory manner and in accordance with the provisions of this Agreement and is suitable for inclusion in the *Project*.

c. The Non-Federal Sponsor's costs for *Section 215 work* that may be eligible for inclusion in *total project costs* pursuant to this Agreement shall be subject to an audit in accordance with Article X.C. of this Agreement to determine the reasonableness, allocability and allowability of such costs.

d. The Non-Federal Sponsor's costs for *Section 215 work* that may be eligible for inclusion in *total project costs* pursuant to this Agreement are not subject to interest charges, nor are they subject to adjustment to reflect changes in price levels between the time the *Section 215 work* is completed and the time the costs are included in *total project costs*.

e. The Government shall not include in *total project costs* any costs for *Section 215 work* paid by the Non-Federal Sponsor using *Federal program funds* unless the Federal agency providing the funds verifies in writing that such funds are authorized to be used to carry out the *Project*.

f. The Government shall not include in *total project costs* any costs for *Section 215 work* in excess of the Government's estimate of the costs of the *Section 215 work* if the work had been accomplished by the Government. In addition, the Government shall not include in *total project costs* any costs for *Section 215 work* that was obtained at no cost to the Non-Federal Sponsor.

g. In the performance of the construction portion of the *Section 215 work*, the Non-Federal Sponsor must comply with applicable Federal labor laws covering non-Federal construction, including, but not limited to, 40 U.S.C. 3141-3148 and 40 U.S.C. 3701-3708 (labor standards originally enacted as the Davis-Bacon Act, the Contract Work Hours and Safety Standards Act, and the Copeland Anti-Kickback Act). Costs for the construction portion of *Section 215 work* may be excluded from *total project costs* by the Government, in whole or in part, as a result of the Non-Federal Sponsor's failure to comply with its obligations under these laws.

6. The Government, in accordance with this paragraph, shall afford credit toward the Non-Federal Sponsor's contribution of funds required under paragraph B.3. of this Article for the costs of the *Section 215 work* determined in accordance with

paragraph B.5. of this Article. However, the maximum amount of credit that can be afforded for the *Section 215 work* shall not exceed the lesser of the following amounts as determined by the Government: the Non-Federal Sponsor's contribution of funds required under paragraph B.3. of this Article or the costs of the *Section 215 work* determined in accordance with paragraph B.5. of this Article.

7. Notwithstanding any other provision of this Agreement, the Non-Federal Sponsor shall not be entitled to reimbursement of any costs of *Section 215 work* determined in accordance with paragraph B.5. of this Article and included in *total project costs* that exceed the amount of credit afforded for the *Section 215 work* determined in accordance with paragraph B.6. of this Article and the Non-Federal Sponsor shall be responsible for 100 percent of all costs of *Section 215 work* included in *total project costs* that exceed the amount of credit afforded.

C. Notwithstanding any other provision of this Agreement, Federal financial participation in the *Project* is limited by the following provisions of this paragraph.

1. In the event the Government projects that the amount of Federal funds the Government will make available to the *Project* through the then-current *fiscal year*, or the amount of Federal funds the Government will make available for the *Project* through the upcoming *fiscal year*, is not sufficient to meet the Federal share of *total project costs* and the Federal share of costs for data recovery activities associated with historic preservation in accordance with Article XVII.C.3. and Article XVII.C.4. of this Agreement that the Government projects to be incurred through the then-current or upcoming *fiscal year*, as applicable, the Government shall notify the Non-Federal Sponsor in writing of such insufficiency of funds and of the date the Government projects that the Federal funds that will have been made available to the *Project* will be exhausted. Upon the exhaustion of Federal funds made available by the Government to the *Project*, future performance under this Agreement shall be suspended and the parties shall proceed in accordance with Article XIII.B. of this Agreement.

2. In accordance with Section 205 of the Flood Control Act of 1948, Public Law 80-858, as amended (33 U.S.C. 701s), the Government's total financial obligations for planning, design, and construction of the *Project* (except for costs incurred on behalf of the Non-Federal Sponsor in accordance with paragraph H. of this Article) shall not exceed the *Section 205 Project Limit*. Notwithstanding any other provision of this Agreement, the Non-Federal Sponsor shall be responsible for all costs in excess of this limit and shall pay any such costs in accordance with Article VI.B. of this Agreement.

3. If the Government determines that the total amount of Federal funds provided by Congress for all projects implemented pursuant to Section 205 has reached the *Section 205 Annual Program Limit*, and the Government projects that the Federal funds the Government will make available to the *Project* within the *Section 205 Annual Program Limit* will not be sufficient to meet the Federal share of *total project costs* and the Federal share of costs for data recovery activities associated with historic preservation

in accordance with Article XVII.C.3. and Article XVII.C.4. of this Agreement, the Government shall notify the Non-Federal Sponsor in writing of such insufficiency of funds and of the date the Government projects that the Federal funds that will have been made available to the *Project* will be exhausted. Upon the exhaustion of Federal funds made available by the Government to the *Project* within the *Section 205 Annual Program Limit*, future performance under this Agreement shall be suspended and the parties shall proceed in accordance with Article XIII.B. of this Agreement.

D. When the District Engineer determines that the entire *Project*, or a *functional portion of the Project*, is complete, the District Engineer shall so notify the Non-Federal Sponsor in writing and furnish the Non-Federal Sponsor with a final Operation, Maintenance, Repair, Rehabilitation, and Replacement Manual (hereinafter the "OMRR&R Manual") or, if the final OMRR&R Manual is not available, an interim OMRR&R Manual for the entire *Project* or such completed portion. Upon such notification, the Government also shall furnish to the Non-Federal Sponsor a copy of all final as-built drawings for the portion of the *Project* for which the Government awarded a construction contract, or the Government constructed using its own forces, if such drawings are available. Not later than 6 months after such notification by the Government that the entire *Project* is complete, the Government shall furnish the Non-Federal Sponsor with all final as-built drawings for the portion of the *Project* for which the Government awarded a construction contract, or the Government constructed using its own forces, and also shall furnish the Non-Federal Sponsor with the final OMRR&R Manual for the entire *Project*. In the event all final as-built drawings for the portion of the *Project* for which the Government awarded a construction contract, or the Government constructed using its own forces, or the final OMRR&R Manual for the entire *Project* cannot be completed within the 6 month period, the Government shall provide written notice to the Non-Federal Sponsor, and the Government and the Non-Federal Sponsor shall negotiate an acceptable completion date for furnishing such documents. Further, after completion of all contracts for the *Project*, copies of all of the Government's and Non-Federal Sponsor's Written Notices of Acceptance of Completed Work for all contracts for the *Project* that have not been provided to the other party previously shall be provided to the Non-Federal Sponsor and/or the Government, as appropriate.

E. Upon notification from the District Engineer in accordance with paragraph D. of this Article, the Non-Federal Sponsor shall operate, maintain, repair, rehabilitate, and replace the entire *Project*, or the *functional portion of the Project* as the case may be, in accordance with Article VIII of this Agreement.

F. Upon conclusion of the *period of design and construction*, the Government shall conduct an accounting, in accordance with Article VI.C. of this Agreement, and furnish the results to the Non-Federal Sponsor.

G. The Non-Federal Sponsor shall not use *Federal program funds* to meet any of its obligations for the *Project* under this Agreement unless the Federal agency providing the funds verifies in writing that such funds are authorized to be used to carry out the *Project*.

H. The Non-Federal Sponsor may request the Government to perform or provide, on behalf of the Non-Federal Sponsor, one or more of the services (hereinafter the "additional work") described in this paragraph. Such requests shall be in writing and shall describe the additional work requested to be performed or provided. If in its sole discretion the Government elects to perform or provide the requested additional work or any portion thereof, it shall so notify the Non-Federal Sponsor in a writing that sets forth any applicable terms and conditions, which must be consistent with this Agreement. In the event of conflict between such a writing and this Agreement, this Agreement shall control. The Non-Federal Sponsor shall be solely responsible for all costs of the additional work performed or provided by the Government under this paragraph and shall pay all such costs in accordance with Article VI.D. of this Agreement.

1. Acquisition of lands, easements, and rights-of-way; performance of *relocations*; or construction of improvements required on lands, easements, and rights-of-way to enable the disposal of dredged or excavated material for the *Project*. Notwithstanding acquisition of lands, easements, and rights-of-way, performance of *relocations*, or construction of improvements by the Government, the Non-Federal Sponsor shall be responsible, as between the Government and the Non-Federal Sponsor, for any costs of cleanup and response in accordance with Article XIV.C. of this Agreement.

2. Inclusion of *betterments* in the design or construction of the *Project*. In the event the Government elects to include any such *betterments*, the Government shall allocate the costs of the *Project* features that include *betterments* between *total project costs* and the costs of the *betterments*.

I. Not less than once each year the Non-Federal Sponsor shall inform affected interests of the extent of protection afforded by the *Project*.

J. The Non-Federal Sponsor agrees to participate in and comply with applicable Federal floodplain management and flood insurance programs.

K. The Non-Federal Sponsor shall comply with Section 402 of the Water Resources Development Act of 1986, as amended (33 U.S.C. 701b-12), which requires a non-Federal interest to prepare a floodplain management plan within one year after the date of signing this Agreement, and to implement such plan not later than one year after completion of construction of the *Project*. The plan shall be designed to reduce the impacts of future flood events in the project area, including but not limited to, addressing those measures to be undertaken by non-Federal interests to preserve the level of flood protection provided by the *Project*. The Non-Federal Sponsor shall provide an information copy of the plan to the Government upon its preparation.

L. The Non-Federal Sponsor shall publicize floodplain information in the area concerned and shall provide this information to zoning and other regulatory agencies for their use in adopting regulations, or taking other actions, to prevent unwise future development and to ensure compatibility with protection levels provided by the *Project*.

M. The Non-Federal Sponsor shall prevent obstructions or encroachments on the *Project* (including prescribing and enforcing regulations to prevent such obstructions or encroachments) such as any new developments on *Project* lands, easements, and rights-of-way or the addition of facilities which might reduce the level of protection the *Project* affords, hinder operation and maintenance of the *Project*, or interfere with the *Project*'s proper function.

ARTICLE III - LANDS, EASEMENTS, RIGHTS-OF-WAY,
RELOCATIONS, DISPOSAL AREA IMPROVEMENTS, AND
COMPLIANCE WITH PUBLIC LAW 91-646, AS AMENDED

A. The Government, after consultation with the Non-Federal Sponsor, shall determine the lands, easements, and rights-of-way required for construction, operation, and maintenance of the *Project*, including those required for *relocations*, the borrowing of material, and the disposal of dredged or excavated material. The Government in a timely manner shall provide the Non-Federal Sponsor with general written descriptions, including maps as appropriate, of the lands, easements, and rights-of-way that the Government determines the Non-Federal Sponsor must provide, in detail sufficient to enable the Non-Federal Sponsor to fulfill its obligations under this paragraph, and shall provide the Non-Federal Sponsor with a written notice to proceed with acquisition of such lands, easements, and rights-of-way. Prior to the issuance of the solicitation for each Government contract for construction of the *Project*, or prior to the Government initiating construction of a portion of the *Project* using the Government's own forces, the Non-Federal Sponsor shall acquire all lands, easements, and rights-of-way the Government determines the Non-Federal Sponsor must provide for that work and shall provide the Government with authorization for entry thereto. Furthermore, prior to the end of the *period of design and construction*, the Non-Federal Sponsor shall acquire all lands, easements, and rights-of-way required for construction, operation, and maintenance of the *Project*, as set forth in such descriptions, and shall provide the Government with authorization for entry thereto. The Non-Federal Sponsor shall ensure that lands, easements, and rights-of-way that the Government determines to be required for the *Project* and that were provided by the Non-Federal Sponsor are retained in public ownership for uses compatible with the authorized purposes of the *Project*.

B. The Government, after consultation with the Non-Federal Sponsor, shall determine the *relocations* necessary for construction, operation, and maintenance of the *Project*, including those necessary to enable the borrowing of material or the disposal of dredged or excavated material. The Government in a timely manner shall provide the Non-Federal Sponsor with general written descriptions, including maps as appropriate, of such *relocations* in detail sufficient to enable the Non-Federal Sponsor to fulfill its obligations under this paragraph, and shall provide the Non-Federal Sponsor with a written notice to proceed with such *relocations*. Prior to the issuance of the solicitation for each Government contract for construction of the *Project*, or prior to the Government initiating construction of a portion of the *Project* using the Government's own forces, the Non-Federal Sponsor shall prepare or ensure the preparation of plans and specifications for, and perform or ensure

the performance of, all *relocations* the Government determines to be necessary for that work. Furthermore, prior to the end of the *period of design and construction*, the Non-Federal Sponsor shall perform or ensure performance of all *relocations* as set forth in such descriptions.

C. The Government, after consultation with the Non-Federal Sponsor, shall determine the improvements required on lands, easements, and rights-of-way to enable the disposal of dredged or excavated material associated with construction, operation, and maintenance of the *Project*. Such improvements may include, but are not necessarily limited to, retaining dikes, wasteweirs, bulkheads, embankments, monitoring features, stilling basins, and de-watering pumps and pipes. The Government in a timely manner shall provide the Non-Federal Sponsor with general written descriptions, including maps as appropriate, of such improvements in detail sufficient to enable the Non-Federal Sponsor to fulfill its obligations under this paragraph, and shall provide the Non-Federal Sponsor with a written notice to proceed with construction of such improvements. Prior to the issuance of the solicitation for each Government contract for construction of the *Project*, or prior to the Government initiating construction of a portion of the *Project* using the Government's own forces, the Non-Federal Sponsor shall prepare plans and specifications for all improvements the Government determines to be required for the disposal of dredged or excavated material under that contract, submit such plans and specifications to the Government for approval, and provide such improvements in accordance with the approved plans and specifications. Furthermore, prior to the end of the *period of design and construction*, the Non-Federal Sponsor shall provide all improvements set forth in such descriptions.

D. The Non-Federal Sponsor shall comply with the applicable provisions of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, Public Law 91-646, as amended (42 U.S.C. 4601-4655), and the Uniform Regulations contained in 49 C.F.R. Part 24, in acquiring lands, easements, and rights-of-way required for construction, operation, and maintenance of the *Project*, including those required for *relocations*, the borrowing of material, or the disposal of dredged or excavated material, and shall inform all affected persons of applicable benefits, policies, and procedures in connection with said Act.

ARTICLE IV - CREDIT FOR VALUE OF LANDS, EASEMENTS, RIGHTS-OF-WAY, RELOCATIONS, AND DISPOSAL AREA IMPROVEMENTS

A. The Government shall include in *total project costs* and afford credit toward the Non-Federal Sponsor's share of *total project costs* for the value of the lands, easements, and rights-of-way that the Non-Federal Sponsor must provide pursuant to Article III.A. of this Agreement; for the value of the *relocations* that the Non-Federal Sponsor must perform or for which it must ensure performance pursuant to Article III.B. of this Agreement; and for the value of the improvements required on lands, easements, and rights-of-way to enable the disposal of dredged or excavated material that the Non-Federal Sponsor must provide pursuant to Article III.C. of this Agreement. However, no amount shall be included in *total*

project costs, no credit shall be afforded, and no reimbursement shall be provided for the value of any lands, easements, rights-of-way, *relocations*, or improvements required on lands, easements, and rights-of-way to enable the disposal of dredged or excavated material that have been provided previously as an item of cooperation for another Federal project. In addition, no amount shall be included in *total project costs*, no credit shall be afforded, and no reimbursement shall be provided for the value of lands, easements, rights-of-way, *relocations*, or improvements required on lands, easements, and rights-of-way to enable the disposal of dredged or excavated material that were acquired or performed using *Federal program funds* unless the Federal agency providing the funds verifies in writing that such funds are authorized to be used to carry out the *Project*.

B. The Non-Federal Sponsor in a timely manner shall provide the Government with such documents as are sufficient to enable the Government to determine the value of any contribution provided pursuant to Article III.A., Article III.B., or Article III.C. of this Agreement. Upon receipt of such documents, the Government in a timely manner shall determine the value of such contributions for the purpose of including such value in *total project costs* and for determining the amount of credit to be afforded or reimbursement to be provided in accordance with the provisions of this Agreement.

C. For the purposes of determining the value to be included in *total project costs* and the amount of credit to be afforded or reimbursement to be provided in accordance with this Agreement and except as otherwise provided in paragraph G. of this Article, the value of lands, easements, and rights-of-way, including those required for *relocations*, the borrowing of material, and the disposal of dredged or excavated material, shall be the fair market value of the real property interests, plus certain incidental costs of acquiring those interests, as determined in accordance with the provisions of this paragraph.

I. Date of Valuation.

a. The fair market value of lands, easements, or rights-of-way owned by the Non-Federal Sponsor on the effective date of this Agreement shall be the fair market value of such real property interests as of the date the Non-Federal Sponsor provides the Government with authorization for entry thereto. However, for lands, easements, or rights-of-way owned by the Non-Federal Sponsor on the effective date of this Agreement that are required for the *Section 215 work*, fair market value shall be the value of such real property interests as of the date the Non-Federal Sponsor awarded the first construction contract for the *Section 215 work*, or, if the Non-Federal Sponsor performed the construction with its own forces, the date that the Non-Federal Sponsor began construction of the *Section 215 work*.

b. The fair market value of lands, easements, or rights-of-way acquired by the Non-Federal Sponsor after the effective date of this Agreement shall be the fair market value of such real property interests at the time the interests are acquired.

2. General Valuation Procedure. Except as provided in paragraph C.3. or paragraph C.5. of this Article, the fair market value of lands, easements, or rights-of-way shall be determined in accordance with the provisions of this paragraph.

a. The Non-Federal Sponsor shall obtain, for each real property interest, an appraisal that is prepared by a qualified appraiser who is acceptable to the Non-Federal Sponsor and the Government. The Non-Federal Sponsor shall provide the Government with the appraisal no later than 6 months after the Non-Federal Sponsor provides the Government with an authorization for entry for such real property interest. The appraisal must be prepared in accordance with the applicable rules of just compensation, as specified by the Government. The fair market value shall be the amount set forth in the Non-Federal Sponsor's appraisal, if such appraisal is approved by the Government. In the event the Government does not approve the Non-Federal Sponsor's appraisal, the Non-Federal Sponsor may obtain a second appraisal, and the fair market value shall be the amount set forth in the Non-Federal Sponsor's second appraisal, if such appraisal is approved by the Government. In the event the Government does not approve the Non-Federal Sponsor's second appraisal, the Non-Federal Sponsor chooses not to obtain a second appraisal, or the Non-Federal Sponsor does not provide the first appraisal as required in this paragraph, the Government shall obtain an appraisal, and the fair market value shall be the amount set forth in the Government's appraisal, if such appraisal is approved by the Non-Federal Sponsor. In the event the Non-Federal Sponsor does not approve the Government's appraisal, the Government, after consultation with the Non-Federal Sponsor, shall consider the Government's and the Non-Federal Sponsor's appraisals and determine an amount based thereon, which shall be deemed to be the fair market value.

b. Where the amount paid or proposed to be paid by the Non-Federal Sponsor for the real property interest exceeds the amount determined pursuant to paragraph C.2.a. of this Article, the Government, at the request of the Non-Federal Sponsor, shall consider all factors relevant to determining fair market value and, in its sole discretion, after consultation with the Non-Federal Sponsor, may approve in writing an amount greater than the amount determined pursuant to paragraph C.2.a. of this Article, but not to exceed the amount actually paid or proposed to be paid. If the Government approves such an amount, the fair market value shall be the lesser of the approved amount or the amount paid by the Non-Federal Sponsor, but no less than the amount determined pursuant to paragraph C.2.a. of this Article.

3. Eminent Domain Valuation Procedure. For lands, easements, or rights-of-way acquired by eminent domain proceedings instituted after the effective date of this Agreement, the Non-Federal Sponsor, prior to instituting such proceedings, shall submit to the Government notification in writing of its intent to institute such proceedings and an appraisal of the specific real property interests to be acquired in such proceedings. The Government shall have 60 calendar days after receipt of such a notice and appraisal within which to review the appraisal, if not previously approved by the Government in writing.

a. If the Government previously has approved the appraisal in writing, or if the Government provides written approval of, or takes no action on, the

appraisal within such 60 day period, the Non-Federal Sponsor shall use the amount set forth in such appraisal as the estimate of just compensation for the purpose of instituting the eminent domain proceeding.

b. If the Government provides written disapproval of the appraisal, including the reasons for disapproval, within such 60 day period, the Government and the Non-Federal Sponsor shall consult in good faith to promptly resolve the issues or areas of disagreement that are identified in the Government's written disapproval. If, after such good faith consultation, the Government and the Non-Federal Sponsor agree as to an appropriate amount, then the Non-Federal Sponsor shall use that amount as the estimate of just compensation for the purpose of instituting the eminent domain proceeding. If, after such good faith consultation, the Government and the Non-Federal Sponsor cannot agree as to an appropriate amount, then the Non-Federal Sponsor may use the amount set forth in its appraisal as the estimate of just compensation for the purpose of instituting the eminent domain proceeding.

c. For lands, easements, or rights-of-way acquired by eminent domain proceedings instituted in accordance with paragraph C.3. of this Article, fair market value shall be either the amount of the court award for the real property interests taken, to the extent the Government determined such interests are required for construction, operation, and maintenance of the *Project*, or the amount of any stipulated settlement or portion thereof that the Government approves in writing.

4. Incidental Costs. For lands, easements, or rights-of-way acquired by the Non-Federal Sponsor within a five year period preceding the effective date of this Agreement, or at any time after the effective date of this Agreement, the value of the interest shall include the documented incidental costs of acquiring the interest, as determined by the Government, subject to an audit in accordance with Article X.C. of this Agreement to determine reasonableness, allocability, and allowability of such costs. In the event the Government modifies its determination made pursuant to Article III.A. of this Agreement, the Government shall afford credit for the documented incidental costs associated with preparing to acquire the lands, easements, or rights-of-way identified in the original determination, subject to an audit in accordance with Article X.C. of this Agreement to determine reasonableness, allocability, and allowability of such costs. Such incidental costs shall include, but not necessarily be limited to, closing and title costs, appraisal costs, survey costs, attorney's fees, plat maps, mapping costs, actual amounts expended for payment of any relocation assistance benefits provided in accordance with Article III.D. of this Agreement, and other payments by the Non-Federal Sponsor for items that are generally recognized as compensable, and required to be paid, by applicable state law due to the acquisition of a real property interest in accordance with Article III of this Agreement. The value of the interests provided by the Non-Federal Sponsor in accordance with Article III.A. of this Agreement also shall include the documented costs of obtaining appraisals pursuant to paragraph C.2. of this Article, as determined by the Government, and subject to an audit in accordance with Article X.C. of this Agreement to determine reasonableness, allocability, and allowability of such costs.

5. Waiver of Appraisal. Except as required by paragraph C.3. of this Article, the Government may waive the requirement for an appraisal pursuant to this paragraph if it determines that an appraisal is unnecessary because the valuation is uncomplicated and that the estimated fair market value of the real property interest is \$10,000 or less based upon a review of available data. In such event, the Government and the Non-Federal Sponsor must agree in writing to the value of such real property interest in an amount not in excess of \$25,000.

D. After consultation with the Non-Federal Sponsor, the Government shall determine the value of *relocations* in accordance with the provisions of this paragraph.

1. For a *relocation* other than a *highway*, the value shall be only that portion of *relocation* costs that the Government determines is necessary to provide a functionally equivalent facility, reduced by depreciation, as applicable, and by the salvage value of any removed items.

2. For a *relocation* of a *highway*, the value shall be only that portion of *relocation* costs that would be necessary to accomplish the *relocation* in accordance with the design standard that the State of Arkansas would apply under similar conditions of geography and traffic load, reduced by the salvage value of any removed items.

3. *Relocation* costs shall include, but not necessarily be limited to, actual costs of performing the *relocation*; planning, engineering and design costs; supervision and administration costs; and documented incidental costs associated with performance of the *relocation*, as determined by the Government. *Relocation* costs shall not include any costs due to *betterments*, as determined by the Government, nor any additional cost of using new material when suitable used material is available. *Relocation* costs shall be subject to an audit in accordance with Article X.C. of this Agreement to determine reasonableness, allocability, and allowability of such costs.

E. The value of the improvements required on lands, easements, and rights-of-way to enable the disposal of dredged or excavated material shall be the costs of the improvements, as determined by the Government, subject to an audit in accordance with Article X.C. of this Agreement to determine reasonableness, allocability, and allowability of such costs. Such costs shall include, but not necessarily be limited to, actual costs of providing the improvements; planning, engineering and design costs; supervision and administration costs; and documented incidental costs associated with providing the improvements, but shall not include any costs due to *betterments*, as determined by the Government.

F. Any credit afforded or reimbursement provided under the terms of this Agreement for the value of *relocations*, or improvements required on lands, easements, and rights-of-way to enable the disposal of dredged or excavated material, performed within the *Project* boundaries is subject to satisfactory compliance with applicable Federal labor laws covering non-Federal construction, including, but not limited to, 40 U.S.C. 3141-3148 and 40 U.S.C. 3701-3708 (labor standards originally enacted as the Davis-Bacon

Act, the Contract Work Hours and Safety Standards Act, and the Copeland Anti-Kickback Act). Notwithstanding any other provision of this Agreement, credit or reimbursement may be withheld, in whole or in part, as a result of the Non-Federal Sponsor's failure to comply with its obligations under these laws.

G. Where the Government, on behalf of the Non-Federal Sponsor pursuant to Article II.H.1. of this Agreement, acquires lands, easements, or rights-of-way, performs *relocations*, or constructs improvements required on lands, easements, or rights-of-way to enable the disposal of dredged or excavated material, the value to be included in *total project costs* and the amount of credit to be afforded or the amount of reimbursement provided in accordance with this Agreement shall be the costs of such work performed or provided by the Government that are paid by the Non-Federal Sponsor in accordance with Article VI.D. of this Agreement. In addition, the value to be included in *total project costs* and the amount of such credit to be afforded or the amount of reimbursement provided in accordance with this Agreement shall include the documented costs incurred by the Non-Federal Sponsor in accordance with the terms and conditions agreed upon in writing pursuant to Article II.H.1. of this Agreement subject to an audit in accordance with Article X.C. of this Agreement to determine reasonableness, allocability, and allowability of such costs.

ARTICLE V - PROJECT COORDINATION TEAM

A. To provide for consistent and effective communication, the Non-Federal Sponsor and the Government, not later than 30 calendar days after the effective date of this Agreement, shall appoint named senior representatives to a Project Coordination Team. Thereafter, the Project Coordination Team shall meet regularly until the end of the *period of design and construction*. The Government's Project Manager and a counterpart named by the Non-Federal Sponsor shall co-chair the Project Coordination Team.

B. The Government's Project Manager and the Non-Federal Sponsor's counterpart shall keep the Project Coordination Team informed of the progress of design and construction and of significant pending issues and actions, and shall seek the views of the Project Coordination Team on matters that the Project Coordination Team generally oversees.

C. Until the end of the *period of design and construction*, the Project Coordination Team shall generally oversee the *Project*, including matters related to: design; completion of all necessary environmental coordination and documentation; plans and specifications; scheduling; real property and *relocation* requirements; real property acquisition; contract awards and modifications; contract costs; the application of and compliance with 40 U.S.C. 3141-3148 and 40 U.S.C. 3701-3708 (labor standards originally enacted as the Davis-Bacon Act, the Contract Work Hours and Safety Standards Act, and the Copeland Anti-Kickback Act); the investigations to identify the existence and extent of hazardous substances in accordance with Article XIV.A. of this Agreement; historic preservation activities in accordance with Article XVII of this

Agreement; the Government's cost projections; the performance of and scheduling for the *Section 215 work*; final inspection of the entire *Project* or *functional portions of the Project*; preparation of the proposed OMR&R Manual; anticipated requirements and needed capabilities for performance of operation, maintenance, repair, rehabilitation, and replacement of the *Project* including issuance of permits; and other matters related to the *Project*. This oversight of the *Project* shall be consistent with a project management plan developed by the Government after consultation with the Non-Federal Sponsor.

D. The Project Coordination Team may make recommendations to the District Engineer on matters related to the *Project* that the Project Coordination Team generally oversees, including suggestions to avoid potential sources of dispute. The Government in good faith shall consider the recommendations of the Project Coordination Team. The Government, having the legal authority and responsibility for design and construction of the *Project* has the discretion to accept or reject, in whole or in part, the Project Coordination Team's recommendations.

E. The Non-Federal Sponsor's costs of participation in the Project Coordination Team shall be included in *total project costs* and shared in accordance with the provisions of this Agreement, subject to an audit in accordance with Article X.C. of this Agreement to determine reasonableness, allocability, and allowability of such costs. The Government's costs of participation in the Project Coordination Team shall be included in *total project costs* and shared in accordance with the provisions of this Agreement.

ARTICLE VI - METHOD OF PAYMENT

A. In accordance with the provisions of this paragraph, the Government shall maintain current records and provide to the Non-Federal Sponsor current projections of costs, financial obligations, contributions provided by the parties, the value included in *total project costs* for lands, easements, rights-of-way, *relocations*, and improvements required on lands, easements, and rights-of-way to enable the disposal of dredged or excavated material determined in accordance with Article IV of this Agreement, the costs included in *total project costs* for the *Section 215 work* determined in accordance with Article II.B.5. of this Agreement, and the credit to be afforded for the *Section 215 work* pursuant to Article II.B.6. of this Agreement.

1. As of the effective date of this Agreement, *total project costs* are projected to be \$15,740,000; the value included in *total project costs* for lands, easements, rights-of-way, *relocations*, and improvements required on lands, easements, and rights-of-way to enable the disposal of dredged or excavated material determined in accordance with Article IV of this Agreement is projected to be \$7,601,000; the value of the Non-Federal Sponsor's contributions under Article V, Article X, and Article XIV.A. of this Agreement is projected to be \$25,000; the Non-Federal Sponsor's contribution of funds required by Article II.B.1. and Article II.B.3. of this Agreement is projected to be \$787,000; the costs included in *total project costs* for the *Section 215 work* determined in accordance with Article II.B.5. of this Agreement are projected to be \$22,000; the credit

to be afforded for the *Section 215 work* pursuant to Article II.B.6. of this Agreement is projected to be \$0; the Non-Federal Sponsor's contribution of funds required by Article II.C.2. of this Agreement is projected to be \$0; the *non-Federal proportionate share* is projected to be 9.7 percent; the Non-Federal Sponsor's contribution of funds required by Article XVII.C.4. of this Agreement is projected to be \$0; and the Government's total financial obligations for the additional work to be incurred and the Non-Federal Sponsor's contribution of funds for such costs required by Article II.H. of this Agreement are projected to be \$2,668,000. These amounts and percentage are estimates subject to adjustment by the Government, after consultation with the Non-Federal Sponsor, and are not to be construed as the total financial responsibilities of the Government and the Non-Federal Sponsor.

2. By September 30, 2016, and by each quarterly anniversary thereof until the conclusion of the *period of design and construction* and resolution of all relevant claims and appeals and eminent domain proceedings, the Government shall provide the Non-Federal Sponsor with a report setting forth all contributions provided to date and the current projections of the following: *total project costs*; the value included in *total project costs* for lands, easements, rights-of-way, *relocations*, and improvements required on lands, easements, and rights-of-way to enable the disposal of dredged or excavated material determined in accordance with Article IV of this Agreement; the value of the Non-Federal Sponsor's contributions under Article V, Article X, and Article XIV.A. of this Agreement; the Non-Federal Sponsor's total contribution of funds required by Article II.B.1. and Article II.B.3. of this Agreement; the costs included in *total project costs* for the *Section 215 work* determined in accordance with Article II.B.5. of this Agreement; the credit to be afforded for the *Section 215 work* pursuant to Article II.B.6. of this Agreement; the Non-Federal Sponsor's contribution of funds required by Article II.C.2. of this Agreement; the *non-Federal proportionate share*; the Non-Federal Sponsor's total contribution of funds required by Article XVII.C.4. of this Agreement; total contribution of funds required from the Non-Federal Sponsor for the upcoming contract and upcoming *fiscal year*; and the Government's total financial obligations for additional work incurred and the Non-Federal Sponsor's contribution of funds for such costs required by Article II.H. of this Agreement.

B. The Non-Federal Sponsor shall provide the contributions of funds required by Article II.B.1., Article II.B.3., Article II.C.2., and Article XVII.C.4. of this Agreement in accordance with the provisions of this paragraph.

1. Not less than 30 calendar days prior to the scheduled date for issuance of the solicitation for the first contract for design of the *Project* or commencement of design of the *Project* using the Government's own forces, the Government shall notify the Non-Federal Sponsor in writing of such scheduled date and the funds the Government determines to be required from the Non-Federal Sponsor after consideration of any credit the Government projects will be afforded for the *Section 215 work* pursuant to Article II.B.6. of this Agreement, to meet: (a) the *non-Federal proportionate share of financial obligations for design and construction* incurred prior to the commencement of the *period of design and construction*; (b) the projected *non-Federal proportionate share of*

financial obligations for design and construction to be incurred for such contract; (c) the projected *non-Federal proportionate share of financial obligations for design and construction* using the Government's own forces through the first *fiscal year*; (d) the Non-Federal Sponsor's share of the projected financial obligations for data recovery activities associated with historic preservation pursuant to Article XVII.C.4. of this Agreement to be incurred for such contract; and (e) the Non-Federal Sponsor's share of the projected financial obligations for data recovery activities associated with historic preservation pursuant to Article XVII.C.4. of this Agreement using the Government's own forces through the first *fiscal year*. Not later than such scheduled date, the Non-Federal Sponsor shall provide the Government with the full amount of such required funds by delivering a check payable to "FAO, USAED, LITTLE ROCK DISTRICT, M4" to the District Engineer, or verifying to the satisfaction of the Government that the Non-Federal Sponsor has deposited such required funds in an escrow or other account acceptable to the Government, with interest accruing to the Non-Federal Sponsor, or providing an Electronic Funds Transfer of such required funds in accordance with procedures established by the Government.

2. Thereafter, until the construction of the *Project* is complete, the Government shall notify the Non-Federal Sponsor in writing of the funds the Government determines to be required from the Non-Federal Sponsor, and the Non-Federal Sponsor shall provide such funds in accordance with the provisions of this paragraph.

a. The Government shall notify the Non-Federal Sponsor in writing, no later than 60 calendar days prior to the scheduled date for issuance of the solicitation for each remaining contract for the *Project*, of the funds the Government determines to be required from the Non-Federal Sponsor after consideration of any credit the Government projects will be afforded for the *Section 215 work* pursuant to Article II.B.6. of this Agreement, to meet: (a) the projected *non-Federal proportionate share of financial obligations for design and construction* to be incurred for such contract and (b) the Non-Federal Sponsor's share of the projected financial obligations for data recovery activities associated with historic preservation pursuant to Article XVII.C.4. of this Agreement to be incurred for such contract. No later than such scheduled date, the Non-Federal Sponsor shall make the full amount of such required funds available to the Government through any of the payment mechanisms specified in paragraph B.1. of this Article.

b. The Government shall notify the Non-Federal Sponsor in writing, no later than 60 calendar days prior to the beginning of each *fiscal year* in which the Government projects that it will make *financial obligations for design and construction* of the *Project* using the Government's own forces or financial obligations for data recovery activities associated with historic preservation pursuant to Article XVII.C.4. of this Agreement using the Government's own forces, of the funds the Government determines to be required from the Non-Federal Sponsor after consideration of any credit the Government projects will be afforded for the *Section 215 work* pursuant to Article II.B.6. of this Agreement, to meet: (a) the projected *non-Federal proportionate share of financial obligations for design and construction* using the Government's own

forces for that *fiscal year* and (b) the Non-Federal Sponsor's share of the projected financial obligations for data recovery activities associated with historic preservation pursuant to Article XVII.C.4. of this Agreement using the Government's own forces for that *fiscal year*. No later than 30 calendar days prior to the beginning of that *fiscal year*, the Non-Federal Sponsor shall make the full amount of such required funds for that *fiscal year* available to the Government through any of the payment mechanisms specified in paragraph B.1. of this Article.

3. The Government shall draw from the funds provided by the Non-Federal Sponsor such sums as the Government deems necessary after consideration of any credit the Government projects will be afforded for the *Section 215 work* pursuant to Article II.B.6. of this Agreement, to cover: (a) the *non-Federal proportionate share of financial obligations for design and construction* incurred prior to the commencement of the *period of design and construction*; (b) the *non-Federal proportionate share of financial obligations for design and construction as financial obligations for design and construction* are incurred; and (c) the Non-Federal Sponsor's share of financial obligations for data recovery activities associated with historic preservation pursuant to Article XVII.C.4. of this Agreement as those financial obligations are incurred. If at any time the Government determines that additional funds will be needed from the Non-Federal Sponsor to cover the Non-Federal Sponsor's share of such financial obligations for the current contract or to cover the Non-Federal Sponsor's share of such financial obligations for work performed using the Government's own forces in the current *fiscal year*, the Government shall notify the Non-Federal Sponsor in writing of the additional funds required and provide an explanation of why additional funds are required. Within 30 calendar days from receipt of such notice, the Non-Federal Sponsor shall provide the Government with the full amount of such additional required funds through any of the payment mechanisms specified in paragraph B.1. of this Article.

C. Upon conclusion of the *period of design and construction* and resolution of all relevant claims and appeals and eminent domain proceedings, the Government shall conduct a final accounting and furnish the Non-Federal Sponsor with written notice of the results of such final accounting. If outstanding relevant claims and appeals or eminent domain proceedings prevent a final accounting from being conducted in a timely manner, the Government shall conduct an interim accounting and furnish the Non-Federal Sponsor with written notice of the results of such interim accounting. Once all outstanding relevant claims and appeals and eminent domain proceedings are resolved, the Government shall amend the interim accounting to complete the final accounting and furnish the Non-Federal Sponsor with written notice of the results of such final accounting. The interim or final accounting, as applicable, shall determine *total project costs* and the costs of any data recovery activities associated with historic preservation. In addition, for each set of costs, the interim or final accounting, as applicable, shall determine each party's required share thereof, and each party's total contributions thereto as of the date of such accounting.

1. Should the interim or final accounting, as applicable, show that the Non-Federal Sponsor's total required shares of *total project costs* and the costs of any

data recovery activities associated with historic preservation exceed the Non-Federal Sponsor's total contributions provided thereto, the Non-Federal Sponsor, no later than 90 calendar days after receipt of written notice from the Government, shall make a payment to the Government in an amount equal to the difference by delivering a check payable to "FAO, USAED, LITTLE ROCK DISTRICT, M4" to the District Engineer or providing an Electronic Funds Transfer in accordance with procedures established by the Government.

2. Should the interim or final accounting, as applicable, show that the total contributions provided by the Non-Federal Sponsor for *total project costs* and the costs of any data recovery activities associated with historic preservation exceed the Non-Federal Sponsor's total required shares thereof, the Government, subject to the availability of funds and as limited by Article II.B.7. of this Agreement, the *Section 205 Project Limit*, and the *Section 205 Annual Program Limit*, shall refund or reimburse the excess amount to the Non-Federal Sponsor within 90 calendar days of the date of completion of such accounting. However, the Non-Federal Sponsor shall not be entitled to any refund of the 5 percent cash contribution required pursuant to Article II.B.1. of this Agreement. In the event the Non-Federal Sponsor is due a refund or reimbursement and funds are not available to refund or reimburse the excess amount to the Non-Federal Sponsor, the Government shall seek such appropriations as are necessary to make the refund or reimbursement.

D. The Non-Federal Sponsor shall provide the contribution of funds required by Article II.H. of this Agreement for additional work in accordance with the provisions of this paragraph.

1. Not less than 30 calendar days prior to the scheduled date for the first financial obligation for additional work, the Government shall notify the Non-Federal Sponsor in writing of such scheduled date and of the full amount of funds the Government determines to be required from the Non-Federal Sponsor to cover the costs of the additional work. No later than 30 calendar days prior to the Government incurring any financial obligation for additional work, the Non-Federal Sponsor shall provide the Government with the full amount of the funds required to cover the costs of such additional work through any of the payment mechanisms specified in paragraph B.1. of this Article.

2. The Government shall draw from the funds provided by the Non-Federal Sponsor such sums as the Government deems necessary to cover the Government's financial obligations for such additional work as they are incurred. If at any time the Government determines that the Non-Federal Sponsor must provide additional funds to pay for such additional work, the Government shall notify the Non-Federal Sponsor in writing of the additional funds required and provide an explanation of why additional funds are required. Within 15 calendar days from receipt of such notice, the Non-Federal Sponsor shall provide the Government with the full amount of such additional required funds through any of the payment mechanisms specified in paragraph B.1. of this Article.

3. At the time the Government conducts the interim or final accounting, as applicable, the Government shall conduct an accounting of the Government's financial obligations incurred for additional work and furnish the Non-Federal Sponsor with written notice of the results of such accounting. If outstanding relevant claims and appeals or eminent domain proceedings prevent a final accounting of such financial obligations for additional work from being conducted in a timely manner, the Government shall conduct an interim accounting of such financial obligations for additional work and furnish the Non-Federal Sponsor with written notice of the results of such interim accounting. Once all outstanding relevant claims and appeals and eminent domain proceedings are resolved, the Government shall amend the interim accounting of such financial obligations for additional work to complete the final accounting of such financial obligations for additional work and furnish the Non-Federal Sponsor with written notice of the results of such final accounting. Such interim or final accounting, as applicable, shall determine the Government's total financial obligations for additional work and the Non-Federal Sponsor's contribution of funds provided thereto as of the date of such accounting.

a. Should the interim or final accounting, as applicable, show that the Government's total financial obligations for additional work exceed the total contribution of funds provided by the Non-Federal Sponsor for such additional work, the Non-Federal Sponsor, no later than 90 calendar days after receipt of written notice from the Government, shall make a payment to the Government in an amount equal to the difference by delivering a check payable to "FAO, USAID, LITTLE ROCK DISTRICT, M4" to the District Engineer or providing an Electronic Funds Transfer in accordance with procedures established by the Government.

b. Should the interim or final accounting, as applicable, show that the total contribution of funds provided by the Non-Federal Sponsor for additional work exceeds the Government's total financial obligations for such additional work, the Government, subject to the availability of funds, shall refund the excess amount to the Non-Federal Sponsor within 90 calendar days of the date of completion of such accounting. In the event the Non-Federal Sponsor is due a refund and funds are not available to refund the excess amount to the Non-Federal Sponsor, the Government shall seek such appropriations as are necessary to make the refund.

ARTICLE VII - DISPUTE RESOLUTION

As a condition precedent to a party bringing any suit for breach of this Agreement, that party must first notify the other party in writing of the nature of the purported breach and seek in good faith to resolve the dispute through negotiation. If the parties cannot resolve the dispute through negotiation, they may agree to a mutually acceptable method of non-binding alternative dispute resolution with a qualified third party acceptable to both parties. Each party shall pay an equal share of any costs for the services provided by such a third party as such costs are incurred. The existence of a dispute shall not excuse the parties from performance pursuant to this Agreement.

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ARTICLE VIII - OPERATION, MAINTENANCE, REPAIR, REHABILITATION,
AND REPLACEMENT (OMRR&R)

A. Upon receipt of the notification from the District Engineer in accordance with Article II.D. of this Agreement and for so long as the *Project* remains authorized, the Non-Federal Sponsor, pursuant to Article II.E. of this Agreement, shall operate, maintain, repair, rehabilitate, and replace the entire *Project* or *functional portion of the Project*, at no cost to the Government. The Non-Federal Sponsor shall conduct its operation, maintenance, repair, rehabilitation, and replacement responsibilities in a manner compatible with the *Project's* authorized purposes and in accordance with applicable Federal and State laws as provided in Article XI of this Agreement and specific directions prescribed by the Government in the interim or final OMRR&R Manual and any subsequent amendments thereto.

B. The Non-Federal Sponsor hereby gives the Government a right to enter, at reasonable times and in a reasonable manner, upon property that the Non-Federal Sponsor now or hereafter owns or controls for access to the *Project* for the purpose of inspection and, if necessary, for the purpose of completing, operating, maintaining, repairing, rehabilitating, or replacing the *Project*. If an inspection shows that the Non-Federal Sponsor for any reason is failing to perform its obligations under this Agreement, the Government shall send a written notice describing the non-performance to the Non-Federal Sponsor. If, after 30 calendar days from receipt of such written notice by the Government, the Non-Federal Sponsor continues to fail to perform, then the Government shall have the right to enter, at reasonable times and in a reasonable manner, upon property that the Non-Federal Sponsor now or hereafter owns or controls for the purpose of completing, operating, maintaining, repairing, rehabilitating, or replacing the *Project*. No completion, operation, maintenance, repair, rehabilitation, or replacement by the Government shall relieve the Non-Federal Sponsor of responsibility to meet the Non-Federal Sponsor's obligations as set forth in this Agreement, or to preclude the Government from pursuing any other remedy at law or equity to ensure faithful performance pursuant to this Agreement.

ARTICLE IX – HOLD AND SAVE

The Non-Federal Sponsor shall hold and save the Government free from all damages arising from design, construction, operation, maintenance, repair, rehabilitation, and replacement of the *Project* and any *betterments*, except for damages due to the fault or negligence of the Government or its contractors.

ARTICLE X - MAINTENANCE OF RECORDS AND AUDIT

A. Not later than 60 calendar days after the effective date of this Agreement, the Government and the Non-Federal Sponsor shall develop procedures for keeping books, records, documents, or other evidence pertaining to costs and expenses incurred pursuant to this Agreement. These procedures shall incorporate, and apply as appropriate, the standards

for financial management systems set forth in the Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments at 32 C.F.R. Section 33.20. The Government and the Non-Federal Sponsor shall maintain such books, records, documents, or other evidence in accordance with these procedures and for a minimum of three years after completion of the accounting for which such books, records, documents, or other evidence were required. To the extent permitted under applicable Federal laws and regulations, the Government and the Non-Federal Sponsor shall each allow the other to inspect such books, records, documents, or other evidence.

B. In accordance with 32 C.F.R. Section 33.26, the Non-Federal Sponsor is responsible for complying with the Single Audit Act Amendments of 1996 (31 U.S.C. 7501-7507), as implemented by Office of Management and Budget (OMB) Circular No. A-133 and Department of Defense Directive 7600.10. Upon request of the Non-Federal Sponsor and to the extent permitted under applicable Federal laws and regulations, the Government shall provide to the Non-Federal Sponsor and independent auditors any information necessary to enable an audit of the Non-Federal Sponsor's activities under this Agreement. The costs of any non-Federal audits performed in accordance with this paragraph shall be allocated in accordance with the provisions of OMB Circulars A-87 and A-133, and such costs as are allocated to the *Project* shall be included in *total project costs* and shared in accordance with the provisions of this Agreement.

C. In accordance with 31 U.S.C. 7503, the Government may conduct audits in addition to any audit that the Non-Federal Sponsor is required to conduct under the Single Audit Act Amendments of 1996. Any such Government audits shall be conducted in accordance with Government Auditing Standards and the cost principles in OMB Circular No. A-87 and other applicable cost principles and regulations. The costs of Government audits performed in accordance with this paragraph shall be included in *total project costs* and shared in accordance with the provisions of this Agreement.

ARTICLE XI - FEDERAL AND STATE LAWS

In carrying out its obligations under this Agreement, the Non-Federal Sponsor shall comply with all requirements of applicable Federal laws and implementing regulations, including, but not limited to: Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d), and Department of Defense Directive 5500.11 issued pursuant thereto; the Age Discrimination Act of 1975 (42 U.S.C. 6102); the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and Army Regulation 600-7 issued pursuant thereto; and 40 U.S.C. 3141-3148 and 40 U.S.C. 3701-3708 (labor standards originally enacted as the Davis-Bacon Act, the Contract Work Hours and Safety Standards Act, and the Copeland Anti-Kickback Act).

ARTICLE XII - RELATIONSHIP OF PARTIES

A. In the exercise of their respective rights and obligations under this Agreement, the Government and the Non-Federal Sponsor each act in an independent capacity, and neither is to be considered the officer, agent, or employee of the other.

B. In the exercise of its rights and obligations under this Agreement, neither party shall provide, without the consent of the other party, any contractor with a release that waives or purports to waive any rights the other party may have to seek relief or redress against that contractor either pursuant to any cause of action that the other party may have or for violation of any law.

ARTICLE XIII - TERMINATION OR SUSPENSION

A. If at any time the Non-Federal Sponsor fails to fulfill its obligations under this Agreement, the Assistant Secretary of the Army (Civil Works) shall terminate this Agreement or suspend future performance under this Agreement unless the Assistant Secretary of the Army (Civil Works) determines that continuation of work on the *Project* is in the interest of the United States or is necessary in order to satisfy agreements with any other non-Federal interests in connection with the *Project*.

B. In the event future performance under this Agreement is suspended pursuant to Article II.C. of this Agreement, such suspension shall remain in effect until such time that the Government notifies the Non-Federal Sponsor in writing that sufficient Federal funds are available to meet the Federal share of *total project costs* and the Federal share of costs for data recovery activities associated with historic preservation in accordance with Article XVII.C.3. and Article XVII.C.4. of this Agreement the Government projects to be incurred through the then-current or upcoming *fiscal year*, or the Government or the Non-Federal Sponsor elects to terminate this Agreement.

C. In the event that the Government and the Non-Federal Sponsor determine to suspend future performance under this Agreement in accordance with Article XIV.C. of this Agreement, such suspension shall remain in effect until the Government and the Non-Federal Sponsor agree to proceed or to terminate this Agreement. In the event that the Government suspends future performance under this Agreement in accordance with Article XIV.C. of this Agreement due to failure to reach agreement with the Non-Federal Sponsor on whether to proceed or to terminate this Agreement, or the failure of the Non-Federal Sponsor to provide funds to pay for cleanup and response costs or to otherwise discharge the Non-Federal Sponsor's responsibilities under Article XIV.C. of this Agreement, such suspension shall remain in effect until: 1) the Government and Non-Federal Sponsor reach agreement on how to proceed or to terminate this Agreement; 2) the Non-Federal Sponsor provides funds necessary to pay for cleanup and response costs and otherwise discharges its responsibilities under Article XIV.C. of this Agreement; 3) the Government continues work on the *Project*; or 4) the Government terminates this Agreement in accordance with the provisions of Article XIV.C. of this Agreement.

D. If after completion of the design portion of the *Project* the parties mutually agree in writing not to proceed with construction of the *Project*, the parties shall conclude their activities relating to the *Project* and conduct an accounting in accordance with Article VI.C. of this Agreement.

E. In the event that this Agreement is terminated pursuant to this Article or Article XIV.C. of this Agreement, both parties shall conclude their activities relating to the *Project* and conduct an accounting in accordance with Article VI.C. of this Agreement. To provide for this eventuality, the Government may reserve a percentage of total Federal funds made available for the *Project* and an equal percentage of the total funds contributed by the Non-Federal Sponsor in accordance with Article II.B.1., Article II.B.3., Article II.C.2., and Article XVII.C.4. of this Agreement as a contingency to pay costs of termination, including any costs of resolution of contract claims and contract modifications.

F. Any termination of this Agreement or suspension of future performance under this Agreement in accordance with this Article or Article II.C. or Article XIV.C. of this Agreement shall not relieve the parties of liability for any obligation previously incurred. Any delinquent payment owed by the Non-Federal Sponsor shall be charged interest at a rate, to be determined by the Secretary of the Treasury, equal to 150 per centum of the average bond equivalent rate of the 13 week Treasury bills auctioned immediately prior to the date on which such payment became delinquent, or auctioned immediately prior to the beginning of each additional 3 month period if the period of delinquency exceeds 3 months.

ARTICLE XIV - HAZARDOUS SUBSTANCES

A. After execution of this Agreement and upon direction by the District Engineer, the Non-Federal Sponsor shall perform, or ensure performance of, any investigations for hazardous substances that the Government or the Non-Federal Sponsor determines to be necessary to identify the existence and extent of any hazardous substances regulated under the Comprehensive Environmental Response, Compensation, and Liability Act (42 U.S.C. 9601-9675; hereinafter "CERCLA"), that may exist in, on, or under lands, easements, and rights-of-way that the Government determines, pursuant to Article III of this Agreement, to be required for construction, operation, and maintenance of the *Project*. However, for lands, easements, and rights-of-way that the Government determines to be subject to the navigation servitude, only the Government shall perform such investigations unless the District Engineer provides the Non-Federal Sponsor with prior specific written direction, in which case the Non-Federal Sponsor shall perform such investigations in accordance with such written direction.

1. All actual costs incurred by the Non-Federal Sponsor for such investigations for hazardous substances shall be included in *total project costs* and shared in accordance with the provisions of this Agreement, subject to an audit in accordance with Article X.C. of this Agreement to determine reasonableness, allocability, and allowability of such costs.

2. All actual costs incurred by the Government for such investigations for hazardous substances shall be included in *total project costs* and shared in accordance with the provisions of this Agreement.

B. In the event it is discovered through any investigation for hazardous substances or other means that hazardous substances regulated under CERCLA exist in, on, or under any lands, easements, or rights-of-way that the Government determines, pursuant to Article III of this Agreement, to be required for construction, operation, and maintenance of the *Project*, the Non-Federal Sponsor and the Government, in addition to providing any other notice required by applicable law, shall provide prompt written notice to each other, and the Non-Federal Sponsor shall not proceed with the acquisition of the real property interests until the parties agree that the Non-Federal Sponsor should proceed.

C. The Government and the Non-Federal Sponsor shall determine whether to initiate construction of the *Project*, or, if already in construction, whether to continue with construction of the *Project*, suspend future performance under this Agreement, or terminate this Agreement for the convenience of the Government, in any case where hazardous substances regulated under CERCLA are found to exist in, on, or under any lands, easements, or rights-of-way that the Government determines, pursuant to Article III of this Agreement, to be required for construction, operation, and maintenance of the *Project*. Should the Government and the Non-Federal Sponsor determine to initiate or continue with construction of the *Project* after considering any liability that may arise under CERCLA, the Non-Federal Sponsor shall be responsible, as between the Government and the Non-Federal Sponsor, for the costs of cleanup and response, including the costs of any studies and investigations necessary to determine an appropriate response to the contamination. Such costs shall not be considered a part of *total project costs*. In the event the Non-Federal Sponsor does not reach agreement with the Government on whether to proceed or to terminate this Agreement under this paragraph, or fails to provide any funds necessary to pay for cleanup and response costs or to otherwise discharge the Non-Federal Sponsor's responsibilities under this paragraph upon direction by the Government, the Government, in its sole discretion, may either terminate this Agreement for the convenience of the Government, suspend future performance under this Agreement, or continue work on the *Project*.

D. The Non-Federal Sponsor and the Government shall consult with each other in accordance with Article V of this Agreement in an effort to ensure that responsible parties bear any necessary cleanup and response costs as defined in CERCLA. Any decision made pursuant to paragraph C. of this Article shall not relieve any third party from any liability that may arise under CERCLA.

E. As between the Government and the Non-Federal Sponsor, the Non-Federal Sponsor shall be considered the operator of the *Project* for purposes of CERCLA liability. To the maximum extent practicable, the Non-Federal Sponsor shall operate, maintain, repair, rehabilitate, and replace the *Project* in a manner that will not cause liability to arise under CERCLA.

ARTICLE XV - NOTICES

A. Any notice, request, demand, or other communication required or permitted to be given under this Agreement shall be deemed to have been duly given if in writing and delivered personally or sent by telegram or mailed by first-class, registered, or certified mail, as follows:

If to the Non-Federal Sponsor: Mayor
City of Russellville
203 S. Commerce Ave.
Russellville, AR 72801

If to the Government: Project Manager
Planning and Environmental Division
Little Rock District Corps of Engineers
700 W. Capitol
P.O. BOX 867
Little Rock, AR 72203

B. A party may change the recipient or address to which such communications are to be directed by giving written notice to the other party in the manner provided in this Article.

C. Any notice, request, demand, or other communication made pursuant to this Article shall be deemed to have been received by the addressee at the earlier of such time as it is actually received or seven calendar days after it is mailed.

ARTICLE XVI - CONFIDENTIALITY

To the extent permitted by the laws governing each party, the parties agree to maintain the confidentiality of exchanged information when requested to do so by the providing party.

ARTICLE XVII - HISTORIC PRESERVATION

A. Except as provided in paragraph B. below, the Government shall perform any identification, survey, or evaluation of historic properties that it determines is necessary for the *Project*. Any costs incurred by the Government for such work shall be included in *total project costs* and shared in accordance with the provisions of this Agreement.

B. In the event that the Government determines that any identification, survey, or evaluation of historic properties is required for construction of the *Section 215 work*, and if the Government and the Non-Federal Sponsor agree in writing that the Non-Federal

Sponsor should perform such identification, survey, or evaluation of historic properties, the Non-Federal Sponsor shall perform such identification, survey, or evaluation in accordance with this paragraph and other written directions of the Government.

1. The Non-Federal Sponsor shall ensure that its studies are conducted by qualified archaeologists, historians, architectural historians and historic architects, as appropriate, who meet, at a minimum, the Secretary of the Interior's Professional Qualifications Standards. The Non-Federal Sponsor shall submit study plans and reports to the Government for review and approval and the Non-Federal Sponsor shall be responsible for resolving any deficiencies identified by the Government.

2. Any costs of identification, survey, or evaluation of historic properties incurred by the Non-Federal Sponsor pursuant to this paragraph shall be included in the costs for *Section 215 work* subject to an audit in accordance with Article X.C. of this Agreement to determine reasonableness, allocability, and allowability of such costs.

C. Except as provided in paragraph C.2. below, the Government, as it determines necessary for the *Project*, shall perform or ensure the performance of any mitigation activities or actions for historic properties or that are otherwise associated with historic preservation including data recovery activities.

1. Any costs incurred by the Government for such mitigation activities, except for data recovery activities associated with historic preservation, shall be included in *total project costs* and shared in accordance with the provisions of this Agreement.

2. In the event that the Government determines that mitigation activities or actions other than data recovery activities associated with historic preservation are required for construction of the *Section 215 work*, and if the Government and the Non-Federal Sponsor agree in writing that the Non-Federal Sponsor should perform such activities or actions, the Non-Federal Sponsor shall perform such activities or actions in accordance with the written directions of the Government. The Non-Federal Sponsor shall perform the agreed upon activities or actions prior to construction of the *Section 215 work*. Any costs incurred by the Non-Federal Sponsor in accordance with the provisions of this paragraph shall be included in the costs for *Section 215 work* subject to an audit in accordance with Article X.C. of this Agreement to determine reasonableness, allocability, and allowability of such costs.

3. As specified in Section 7(a) of Public Law 86-523, as amended by Public Law 93-291 (16 U.S.C. 469c(a)), the costs of data recovery activities associated with historic preservation shall be borne entirely by the Government and shall not be included in *total project costs*, up to the statutory limit of one percent of the *Section 205 Project Limit*.

4. The Government shall not incur costs for data recovery activities associated with historic preservation that exceed the statutory one percent limit specified in paragraph C.3. of this Article unless and until the Assistant Secretary of the Army

(Civil Works) has waived that limit and the Secretary of the Interior has concurred in the waiver in accordance with Section 208(3) of Public Law 96-515, as amended (16 U.S.C. 469c-2(3)). Any costs of data recovery activities associated with historic preservation that exceed the one percent limit shall not be included in *total project costs* but shall be shared between the Non-Federal Sponsor and the Government consistent with the minimum cost sharing requirements for flood risk management, as follows: 35 percent will be borne by the Non-Federal Sponsor and 65 percent will be borne by the Government.

D. If, during its performance of *relocations*, construction of improvements required on lands, easements, and rights-of-way to enable the disposal of dredged or excavated material in accordance with Article III of this Agreement, or performance of the *Section 215 work*, the Non-Federal Sponsor discovers historic properties or other cultural resources that have not been evaluated in accordance with this Article, the Non-Federal Sponsor shall provide prompt written notice to the Government of such discovery. The Non-Federal Sponsor shall not proceed with performance of the *relocation*, construction of the improvement, or performance of the *Section 215 work* that is related to such discovery until the Government provides written notice to the Non-Federal Sponsor that it should proceed with such work.


ARTICLE XVIII - THIRD PARTY RIGHTS, BENEFITS, OR LIABILITIES


Nothing in this Agreement is intended, nor may be construed, to create any rights, confer any benefits, or relieve any liability, of any kind whatsoever in any third person not party to this Agreement.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement, which shall become effective upon the date it is signed by the District Engineer.

DEPARTMENT OF THE ARMY

CITY OF RUSSELLVILLE, ARKANSAS

BY: 
Courtney W. Paul
Colonel, U.S. Army
Commanding

BY: 
Randall L. Horton
Mayor

DATE: 24 June 2016

DATE: 21 June 2016

CERTIFICATE OF AUTHORITY

I, _____, do hereby certify that I am the principal legal officer of the City of Russellville, that the City of Russellville is a legally constituted public body with full authority and legal capability to perform the terms of the Agreement between the Department of the Army and the City of Russellville in connection with the Prairie Creek And Tributaries, Russellville, Arkansas, Section 205, Project and to pay damages, if necessary, in the event of the failure to perform in accordance with the terms of this Agreement, as required by Section 221 of the Flood Control Act of 1970, Public Law 91-611, as amended (42 U.S.C. 1962d-5b), and that the persons who have executed this Agreement on behalf of the City of Russellville have acted within their statutory authority.

IN WITNESS WHEREOF, I have made and executed this certification this
21st day of June 2016.


Trey F. Smith
City Attorney

CERTIFICATION REGARDING LOBBYING

The undersigned certifies, to the best of his or her knowledge and belief that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.



Randall L. Horton
Mayor, City of Russellville

DATE: 21 June 2010