

Memorandum

To: PPO Subcommittee

Re: Cooperating Technical Partners Grant Application and Agreements for Floodplain Mapping update in Washington County

Date: May 30, 2008

From: Amanda Grint, Stormwater Management Engineer

In August 2006, the Board approved a floodplain map scoping project agreement and grant application with FEMA to study and determine what floodplains need updating in Douglas, Sarpy, Washington and Dakota County. This effort is part of an ongoing Cooperating Technical Partner (CTP) program with FEMA to create and maintain accurate, up-to-date flood hazard data within the District.

To complete this scoping, the District hired HDR Engineering in February 2007. Since February, HDR, District staff and FEMA have held initial meetings with all the communities and counties to receive their input on what local needs they have for new or updated floodplain maps. In addition, FEMA currently has federal grant dollars available to complete work in Washington County. Therefore, based on a prioritized list of needs for Washington County, HDR prepared the attached County Map and Mapping Activities Statement (MAS) which outlines the work to be completed by the District in return for receiving the grant from FEMA. The result of this proposed project will be a county-wide Digital Flood Insurance Rate Map (DFIRM) and Flood Insurance Study (FIS) report for Washington County including the following updates:

- ☐ Inclusion of Approximate Zone A restudy being performed by the Corps of Engineers on all streams except the Missouri River.
- ☐ Inclusion of updated floodplain analysis performed by the Corps of Engineers on the Missouri River.
- ☐ Inclusion of all letters of map revision previously approved by FEMA which are visible at the published map scale.

In order to fund this project, FEMA requested that the District submit an application to receive CTP Grant funds on line, see attached forms. Based on Time and Cost Estimates for the Washington County project, the anticipated funding from the grant is \$169,100 with local funds from the District estimated at \$40,400, a cost-share of about 19%. However, District staff has also been working with the communities within Washington County and it is anticipated that one or more may contribute to a detailed study of their community as part of the District's Floodplain Mapping Assistance program. Applications for Federal funding will be completed online.

It is estimated that this project would start In October 2008 once FEMA has allocated their funding and the NRD has selected a contractor to provide the necessary professional services. A proposed schedule is attached.

- It is recommended that the Subcommittee recommend to the Board that the following resolution be adopted:

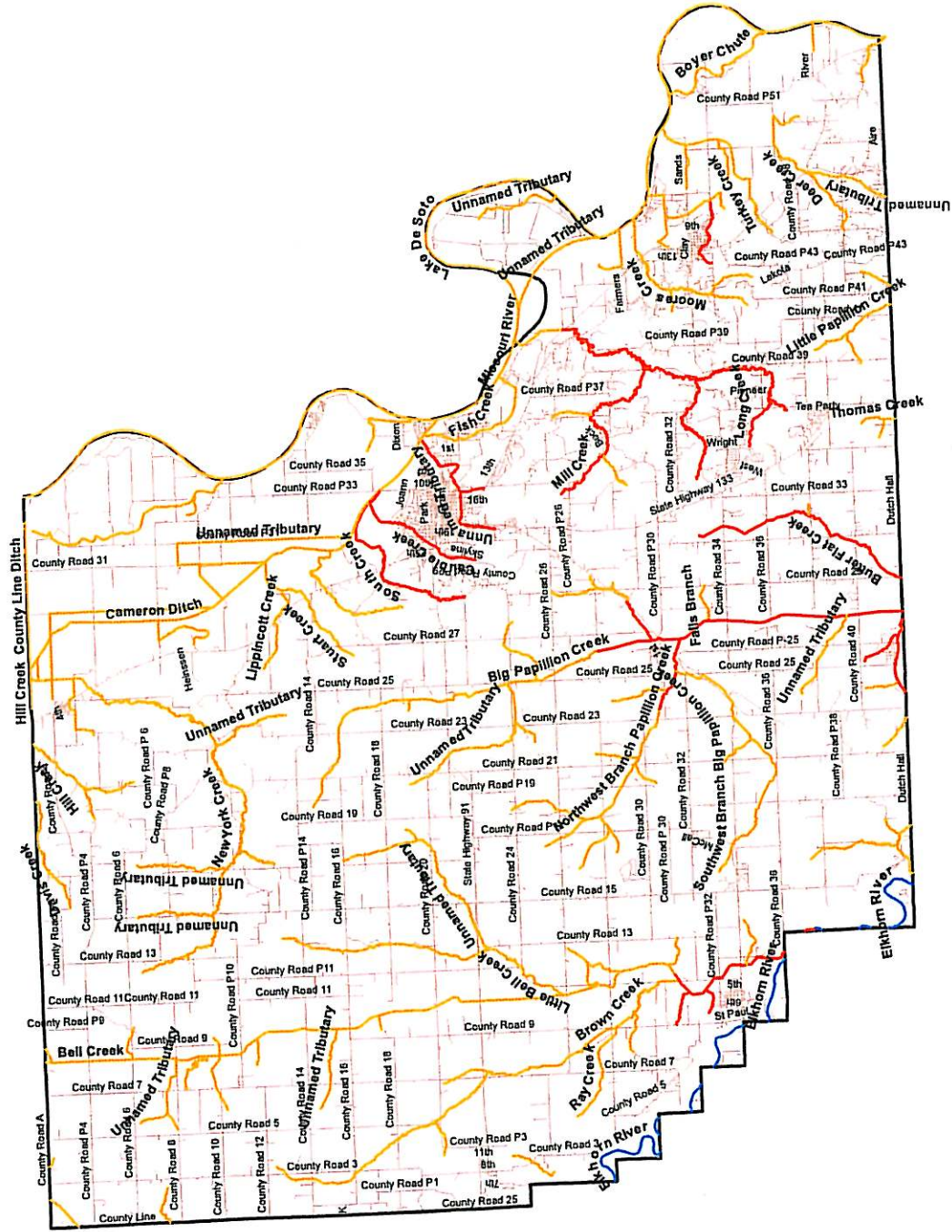
BE IT RESOLVED by the Board of Directors of the Papio-Missouri River Natural Resources District, that the District should apply to the Federal Emergency Management Agency (FEMA) under the FEMA Cooperating Technical Partners (CTP) Program, for CTP grants in the maximum obtainable amount (presently estimated to be \$169,100) towards the cost of activities needed to produce digital floodplain maps for Washington County, and should apply for technical assistance, training, data and other assistance available from FEMA under the CTP Program to support such mapping activities; and, be it further resolved, that the General Manager of the District is hereby authorized to carry out the Washington County Floodplain Mapping project and to execute, for and on behalf of the District, Applications for Federal Assistance for such FEMA CTP grants, a CTP Cooperative Agreement with FEMA, CTP Mapping Activity Statements, and such other applications, assurances, certificates, reports and other documents, and amendments thereto, as the General Manager determines necessary to obtain such CTP grants and other mapping activity assistance from FEMA.

Washington County Proposed Floodplain Mapping - All Needs



Legend

- Convert to DFIRM
- Detailed Study
- Incorporate from USACE



Draft Version
September 4, 2007



FEMA

PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT COOPERATING TECHNICAL PARTNERS MAPPING ACTIVITY STATEMENT

Mapping Activity Statement No. 4

In accordance with the Cooperating Technical Partners (CTP) Partnership Agreement dated April 11, 2003 between Papio-Missouri River Natural Resources District (Papio-Missouri River NRD) and the Federal Emergency Management Agency (FEMA), Mapping Activity Statement (MAS) No. 4 is as follows:

SECTION 1—OBJECTIVE AND SCOPE

The objective of the Flood Map Project documented in this MAS is to develop a Digital Flood Insurance Rate Map (DFIRM) and Flood Insurance Study (FIS) report for Washington County. All processes and deliverables shall be completed in accordance to the Federal Emergency Management Agency's (FEMA's) *Guidelines and Specifications for Flood Hazard Mapping Partners* (G&S) and effective Procedure Memoranda (PMs). The DFIRM and FIS report will be produced in the FEMA County-wide format. In addition, the Mapping Partners involved in this project will develop new and/or updated flood hazard data, as summarized in Table 1.1, Flooding Sources to be Studied.

The DFIRM and FIS report will be produced in the FEMA Countywide format in the North American Vertical Datum of 1988 (NAVD88). (Refer to PM 41 for exceptions.)

Table 1.1 - Flooding Source(s) to be Studied

Flooding Source	Reach Limits	Reach Length (Miles)	Detailed Riverine		Redelineati on of SFHAs Using Effective Profiles and New Topography	Refine/ Establish Zone A
			Hydrology	Hydraulics		
Missouri River	From Burt/Washington county line to Washington/Douglas county line	42.2 miles	X	X		

This Flood Map Project will be completed by the following Mapping Partner(s):

- Papio-Missouri River NRD;
- CTP Study Contractor; and
- National Service Provider.

The Mapping Partner shall notify FEMA and/or its contractor by e-mail of all meetings with community officials at least two weeks prior to the meeting (with as much notice as possible). FEMA and/or its contractor may or may not attend the community meetings.

The activities for this Flood Map Project, including any required Quality Control (QC) reviews as outlined in Procedure Memorandum (PM) 42, and the Mapping Partners that will complete them are summarized in Table 1.2, Flood Mapping Project Activities. The sections of this MAS that follow the table below describe the specific mapping activities, responsible Mapping Partner(s), FEMA standards that must be met, and resultant map deliverables.

The Papio-Missouri River NRD is assigned the Floodplain Mapping Activity and will incorporate the approximate studies completed by the Nebraska Department of Natural Resources for the counties identified in Table 1.1.

For those counties that include the Missouri and/or Mississippi Rivers, Papio-Missouri River NRD will incorporate data developed from the USACE's Upper Mississippi River System Flow Frequency Study (UMRSFFS) and stored on the MIP. Refer to **Exhibit A** for a listing of counties that will include UMRSFSS-based data and **Exhibit B** for a listing of data. Papio-Missouri River NRD shall coordinate directly with the RMC to confirm what data is currently, or will be, available on the MIP.

Papio-Missouri River NRD is responsible for the implementation of a Quality Assurance plan for all assigned activities. The Papio-Missouri River NRD will submit a Summary Report that describes and provides the results of all automated or manual QA review steps. The report should include the process for all assigned activities.

The Regional Office has reviewed the counties for accredited levees on the Flood Insurance Rate Map. In coordination with the USACE, the Region has determined the PAL classification for each levee accredited on the FIRM. No accredited levees were determined for Washington County.

FEMA has developed tools to assist in the development of the flood hazard data studies and DFIRMs for the CTP to use. Use of the tools is optional. Training and access to the tools should be arranged through the Regional Management Center. The tools available at this time include WISE software and the DFIRM production tools, both available through the Mapping Information Platform (MIP).

Independent QC review activities will be performed by FEMA's contractor at the discretion of FEMA.

FEMA will provide download/upload capability for intermediate data submittals through the MIP. A metadata file complying with the FEMA NFIP Metadata Profile Specifications must accompany the uploaded digital data in order to facilitate proper cataloging of the data for search and retrieve capabilities within the MIP. The metadata profile should be obtained from FEMA or its contractor to assure compliance. FEMA has provided the Metadata Manager (MetaMan) Tool in the Citrix environment to convert the .txt metadata files to .xml format. In addition, MetaMan will check the metadata file according to the correct schema for the task for compliance with the FEMA NFIP Metadata Profile.

Table 1.2 Flood Mapping Project Activities

TASK ASSIGNMENTS

State	NE	Washington	County	Washington County
Partner Name	PMR	NRD	Michael Baker Jr.	NSP Core Task Order
Partner Type	PMR	CTP	NSP	
Scoping				
Perform Field Survey				
Develop Topographic Data				
Perform Independent QA/QC of Topographic Data				
Acquire Base Map	X			
Perform Hydrologic Analyses				
Perform Independent QA/QC of Hydrologic Analyses				
Perform Hydraulic Analyses				
Perform Independent QA/QC of Hydraulic Analyses				
Perform Floodplain Mapping	X			
Perform Independent QA/QC of Floodplain Mapping			X	
Develop DFIRM Database	X			
Quality Review (QR) 1 Auto Validation of Draft DFIRM Database				X
Produce Preliminary Map Products	X			
Perform Independent QA/QC of Preliminary Map Product			X	
QR2 Auto Validation of Preliminary Database				X
QR3 10% Visual Check				X
Distribute Preliminary Map Products			X	
Post Preliminary Processing			X	
QR4 Validate BFE Notice and CEO Letters				X
QR5 Validate Final DFIRM Database and Map Panels				X
QR 6 Check LFD				X
QR 7 Validate MSC Deliverable Package				X

FEMA has developed tools to assist in the development of the flood hazard data studies and DFIRMs for the CTP to use. Use of the tools is optional. Training and access to the tools should be arranged through the Regional Management Center. The tools available at this time include WISE software and the DFIRM production tools, both available through the Mapping Information Platform (MIP).

Independent QC review activities will be performed by FEMA's contractor at the discretion of FEMA.

FEMA will provide download/upload capability for intermediate data submittals through the MIP. A metadata file complying with the FEMA NFIP Metadata Profile Specifications must accompany the uploaded digital data in order to facilitate proper cataloging of the data for search and retrieve capabilities within the MIP. The metadata profile should be obtained from FEMA or its contractor to assure compliance. FEMA has provided the Metadata Manager (MetaMan) Tool in the Citrix environment to convert the .txt metadata files to .xml format. In addition, MetaMan will check the metadata file according to the correct schema for the task for compliance with the FEMA NFIP Metadata Profile.

Metadata files are to be included with each of the following four activities that must satisfy Data Capture Standards (DCS): Perform Field Survey, Develop Topographic Data, Develop Hydrologic Data, and Develop Hydraulic Data. In addition, a DCS QA report is required for all DCS tasks. FEMA has provided the DCS Validator Tool in WISE in the Citrix environment to generate the QA report, and must be used whether or not WISE was used to create the DCS data. The DCS QA report can be either passing or failing, but a failing report must be validated by the RMC for allowable errors. The task will advance in the MIP studies workflow as long as the report has been uploaded and named correctly.

Metadata files are also to be included with each of the following non-DCS activities: Acquire Base Map Data, Perform Floodplain Mapping, Develop DFIRM Database, Produce Preliminary Map Products, and Produce Map Products. The metadata profiles are available from FEMA. The FEMA NFIP Metadata Profiles follow the Federal Geographic Data Committee Content Standard for Digital Geospatial Metadata, but define some specific domains and business rules to make the metadata more useful to FEMA and its mapping partners. The metadata profile should be obtained from FEMA or its contractor to assure compliance.

DFIRM-related tasks require a passing QC Report from FEMA's National DFIRM database auto-validation tool for Quality Review (QR) #1, #2, and #5 as described in PM 42. Training materials for this step are available on the MIP at MIP User Care>Training Materials.

As each activity is completed, the data must be submitted to the via one of the methods described in the Data Submission Upload and Validation Quick Reference Guide (QRG) which is available on the MIP at MIP User Care>Guides & Documentation.

The Papio-Missouri River NRD assigned the activity will respond to any comments generated as a result of the mandatory quality control checks by the National Service Provider (NSP). The NSP QC process is nationally funded and required on each flood insurance study. The NSP QC process includes the following activities:

- **Validate Content Submission.** Validation of submitted data for Perform Field Survey, Develop Topographic Data, Develop Hydrologic Data, Develop Hydraulic Data, Acquire Base Map Data, Perform Floodplain Mapping, Develop DFIRM Database, and Produce Preliminary Map Products tasks (including verifying presence of all required deliverables per MAS/SOW).
- **QR #1.** Performed after the Develop DFIRM Database task.
- **QR #s 2 and 3.** Performed after the Produce Preliminary Map Products task.

- **QR #4.** Performed after the Create Base Flood Elevation (BFE) Notices step in the MIP workflow during Post Preliminary Processing.
- **QR #5.** Performed after the Produce Final Map Products task during Post Preliminary Processing.
- **QR #6.** Performed after the Prepare LFD Docket step in the MIP workflow during Post Preliminary Processing.
- **QR #7.** Performed after the Submit MSC Deliverable step in the MIP workflow during Post Preliminary Processing.

In cooperation with the FEMA Project Officer, a Project Management Team (PMT) will be established by the Papio-Missouri River NRD consisting of representatives from the Papio-Missouri River NRD, and it's CTP Study Contractor, FEMA's regional engineer, the Regional Management Center, and other appropriate parties. The PMT will be responsible for coordinating the activities identified in this MAS. The FEMA Region will be provided with documentation identifying the established PMT.

The MIP shall be updated for status reporting of each of the data development activities within the Manage Data Development task, not less than every thirty days, when the activity is complete, and include leverage data. Similarly, the Manage Preliminary Map Production and Manage Post Preliminary Processing tasks shall be updated monthly when the producer is performing work on a task in those modules. The "Manage" tasks will be open and accepting updates for up to 90 days after the completion of the last producer task in each module. The MIP shall also be populated with appropriate leverage information regarding who paid for the data provided and the amount of data used by the Flood Map Project.

Work completed as part of this MAS will be in accordance with the April 2003 *Guidelines and Specifications for Flood Hazard Mapping Partners (G&S)*. The G&S may be downloaded from the FEMA Flood Hazard Mapping website at http://www.fema.gov/plan/prevent/fhm/dl_cgs.shtm. Occasionally, the G&S are modified and revised by Procedure Memorandums. Procedure Memorandums 9-11, 13, 15, 17-20, 23, 24, 29, 31- 45, 47 and 49 are incorporated into this MAS. When new Procedure Memorandums are released, the Mapping Partner will coordinate with the Regional Project Officer to determine impacts on work and schedule. http://www.fema.gov/plan/prevent/fhm/gs_memos.shtm

OUTREACH

The outreach activities for a Flood Map Project can best be understood as a process that begins during the Project Scoping phase and continues through the map production and post-preliminary phases.

The overarching goal for conducting outreach is to create a climate of understanding and ownership of the mapping process at the State and local levels. Well-planned outreach activities can reduce political stress, confrontation in the media, and public controversy, which can arise from lack of information, misunderstanding, or misinformation. These outreach activities also can assist FEMA and other members of the Project Management Team in responding to congressional inquiries.

The Papio-Missouri River NRD will work with the Regional Project Officer during the initiation of this activity to determine an Outreach Plan for implementation throughout the mapping project. The Regional Project Officer will have access to many outreach tools and materials developed for this process that can be utilized or customized. Volume 1 of the *Guidelines and Specifications for Flood Hazard Mapping Partners* provides specific outreach goals that may be considered.

The Papio-Missouri River NRD and its Study Contractor shall attend a final meeting in Washington County following the issuance of the Preliminary FIRM and FIS.

Prior to the initiation of the project, the Papio-Missouri River NRD will notify the CEO of all incorporated communities and the county of the project scope and schedule. The notification letter shall also include the appointment of the Consultation Coordination Officer (CCO). The FEMA Project Officer will provide the name of the CCO. A hardcopy of the community notification shall be provided to the FEMA Project Officer for inclusion in the Docket File.

All communication with local governments will be done in accordance with 44 CFR Part 66.

Deliverables: Upon determination of an Outreach and Coordination Approach, the Papio-Missouri River NRD shall deliver the following to the FEMA Regional Project Officer:

- A report detailing outreach and coordination activities; and
- Hardcopy of the community notification.

Perform Field Survey – NOT APPLICABLE

Develop Topographic Data

For those counties that include the Missouri and/or Mississippi Rivers, Papio-Missouri River NRD will incorporate data developed from the USACE's Upper Mississippi River System Flow Frequency Study (UMRSFFS) and stored on the MIP. Refer to **Exhibit A** for a listing of counties that will include UMRSFSS-based data and **Exhibit B** for a listing of data. Papio-Missouri River NRD shall coordinate directly with the RMC to confirm what data is currently, or will be, available on the MIP.

No additional topographic data is to be obtained. Topographic data prepared for the UMRFFS Study for the Missouri River and the tag vector contours (TVC) for Washington County has been processed and satisfied FEMA's Data Capture Standards.

Perform Independent QC Review of Topographic Data – NOT APPLICABLE

Base Map Acquisition and Preparation

Responsible Mapping Partner: Papio-Missouri River NRD

Scope: Base Map Acquisition consists of obtaining the digital base map, with aerial photos (raster), for the project and as necessary, preparing the base map for use. Papio-Missouri River NRD shall provide the digital base map. The table below contains a summary of the base map selected for each county. The required activities are as follows:

- Obtain digital files (raster or vector) of the base map. In coordination with the partner who performed scoping, insure that the FEMA Geospatial Data Coordination Policy and Implementation Guide is followed.
- Secure necessary permissions from the map source to allow FEMA's use and distribution of hardcopy and digital map products using the digital base map, free of charge.
- Review and supplement the content of the acquired base map to comply with the requirements of the G&S.

- For the base map components that have a mandatory data structure, convert the base map data to the format required in the G&S.
- Certify that the digital data meets the minimum standards and specifications that FEMA requires for DFIRM production.

In addition, Papio-Missouri River NRD shall address all concerns or questions regarding the base map that are raised during the Independent QC review performed by National Service Provider, or during the NSP's Validate Content Submission Process.

Summary of Base Map

County	Description	Source
Washington	DOQQ	Nebraska Department of Natural Resources (NDNR), Mahendra Bansel (402) 471-3664
Washington	Corporate Boundaries	Contact communities for latest boundaries of: Arlington, Blair, Fort Calhoun, Kennard, Washington, and Washington County.
Washington	ETJ	Contact communities for latest boundaries of: Arlington, Blair, Fort Calhoun, Kennard, Washington, and Washington County.
Washington	Roads	Nebraska Department of Natural Resources, Mahendra Bansel (402) 471-3664

Standards: All Base Map Acquisition work shall be performed in accordance with the standards specified in Section 5 - Standards.

Deliverables: In accordance with the *Guidelines and Specifications for Flood Hazard Mapping Partners*, Papio-Missouri River NRD shall make the following products available to FEMA by uploading the digital data to the MIP so that National Service Provider can access it for an Independent QC. Additionally, the Technical Support Data Notebook format described in the *Guidelines and Specifications for Flood Hazard Mapping Partners* must be delivered in accordance with Section 2 – Technical and Administrative Support Data Submittal.

- Written certification that the digital data meet the minimum standards and specifications;
- Documentation that FEMA can use the digital base map;
- Digital base map files that comply with the G&S requirements
- Digital versions of draft text for inclusion in the FIS report;
- A metadata file complying with the FEMA NFIP Metadata Profile Specifications; and
- Documentation of the Datum, if appropriate.

MIP workflow step equivalent: Acquire Base Map.

Concurrent steps: Validate Content Submission (NSP core Task Order), Perform Independent QC for Base Map (if funded by Region VII).

Perform Independent QC Review of Base Map – NOT APPLICABLE

Perform Hydrologic Analyses – NOT APPLICABLE

Perform Independent QC Review of Hydrologic Analyses – NOT APPLICABLE

Perform Hydraulic Analyses – NOT APPLICABLE

Perform Independent QC Review of Hydraulic Analyses – NOT APPLICABLE

Perform Floodplain Mapping

Responsible Mapping Partner: Papio-Missouri River NRD

For those counties that include the Missouri and/or Mississippi Rivers, Papio-Missouri River NRD will incorporate data developed from the USACE's Upper Mississippi River System Flow Frequency Study (UMRSFFS) and stored on the MIP. Refer to **Exhibit A** for a listing of counties that will include UMRSFFS-based data and **Exhibit B** for a listing of data. Papio-Missouri River NRD shall coordinate directly with the RMC to confirm what data is currently, or will be, available on the MIP.

Scope for Existing Data Studied Areas: Papio-Missouri River NRD shall incorporate the Approximate A Zone boundaries for all flooding sources not previously detailed studied and draining greater than 1 square mile, which was performed by Nebraska Department of Natural Resources as described in MAS No. 17 between Nebraska Department of Natural Resources and FEMA. Papio-Missouri River NRD will need to complete floodplain mapping activities. Papio-Missouri River NRD shall coordinate with FEMA to obtain the data. This data is available on the MIP.

Scope for Non-revised Areas: For all flooding sources except those segments for which updated flood data will be developed, Papio-Missouri River NRD shall convert the information shown on the effective FIRM and FBFM panels for all incorporated and unincorporated areas to digital format in conformance with FEMA DFIRM specifications. Papio-Missouri River NRD shall use the acquired base map for the conversion. Papio-Missouri River NRD shall not digitize the flood theme for those segments of flooding sources for which updated flood data will be developed.

Scope for Merging Revised and Non-Revised Information: Upon completion of the floodplain mapping activities for the revised and non-revised areas, Papio-Missouri River NRD shall merge the digital floodplain data into a single, updated DFIRM. This work is to include tie-in of flood hazard information for areas that were not studied as part of the Flood Map Project documented in this MAS. Papio-Missouri River NRD also shall tie in the revised and non-revised Flood Profiles, floodplain boundaries, and regulatory floodway boundaries with contiguous communities that were not studied as part of the Flood Map Project documented in this MAS. Papio-Missouri River NRD shall coordinate with FEMA and any additional Mapping Partners responsible for other components of Perform Floodplain Mapping, as necessary, to resolve any potential tie-in issues.

DFIRM Panel Summary

County Name	Number of DFIRM panels
Washington County	71

Papio-Missouri River NRD shall incorporate the results of all effective Letters of Map Change (LOMCs) within the revised areas as appropriate. Only those LOMCs visible at the published map scale shall be included.

Papio-Missouri River NRD shall address all concerns or questions regarding Floodplain Mapping that are raised by National Service Provider during the Independent QC review, or during the NSP's Validate Content Submission Process.

Papio-Missouri River NRD shall compare the effective FIRMs to the in-progress mapping to determine if any studies originally contained within a single jurisdiction will be plotted outside that jurisdiction's political boundaries when mapped in countywide format (this would include incorporating LOMRs). Papio-Missouri River NRD shall alert the Regional Office and the NSP using comments in the MIP about any instances where there is a BFE that needs to be published in the Federal Register and receive an appeal period. The communities that will have BFE changes, or will see the BFE for the first time, shall be listed in the Comments box on the Review screen in the Perform Floodplain Mapping task.

Standards: All Floodplain Mapping work shall be performed in accordance with the standards specified in Section 5 - Standards. Mapping quality standards must be consistent with Procedure Memorandum No. 38, dated October 17, 2007. Papio-Missouri River NRD will perform self-certification audits for the Floodplain Boundary Standards, as described in PM 38 and all subsequent revisions, for all flood hazard areas.

Deliverables: In accordance with the *Guidelines and Specifications for Flood Hazard Mapping Partners*, and upon completion of floodplain mapping for the counties identified in Table 1.1, Papio-Missouri River NRD shall make the following products available to FEMA by uploading the digital data to the MIP so that National Service Provider can access it for the Independent QC review. Additionally, the Technical Support Data Notebook format described in the *Guidelines and Specifications for Flood Hazard Mapping Partners* must be delivered in accordance with Section 2 – Technical and Administrative Support Data Submittal. The mapping for the remaining flooding sources including any non-revised digital panels and all merged revised and non-revised floodplain mapping data is to be submitted for a final QC review at the completion of this activity.

- Digital work map showing the 1- and 0.2-percent-annual-chance floodplain boundary delineations, regulatory floodway boundary delineations, cross sections, BFEs, flood insurance risk zone designation labels, and all applicable base map features;
- Draft DFIRM database prepared in accordance with the requirements in G&S;
- DFIRM mapping files prepared in accordance with the requirements in *Guidelines and Specifications for Flood Hazard Mapping Partners*;
- A Summary Report that describes and provides the results of all automated or manual QA/QC review steps taken during the preparation of the DFIRM as outlined in the approved QA/QC Plan;
- Any backup or supplemental information including supporting calculations and assumptions used in the mapping required for the Independent QC review of Hydrologic and /or Hydraulic Analyses and Floodplain Mapping;

- An explanation for the use of existing topography for the studied reaches, if appropriate.
- Written summary of the analysis methodologies;
- Digital versions of draft FIS report, Floodway Data Tables and updated profiles including all profiles and tables converted appropriate datum, as well as any other necessary items for the finalization of the preliminary FIS;
- Digital versions of input and output for any computer programs that were used;
- A metadata file complying with the FEMA NFIP Metadata Profile Specifications; and
- If automated GIS-based models are applied, all input data, output data, intermediate data processing products, and GIS data layers shall be submitted.

MIP workflow step equivalent: Perform Floodplain Mapping, Rework Data Development Task (if needed as a result of Independent QC).

Concurrent steps: Validate Content Submission (NSP core Task Order), Perform Independent QC for Floodplain Mapping (if funded by Region VII).

Perform Independent QC Review of Floodplain Mapping

Responsible Mapping Partner: National Service Provider

Scope: National Service Provider shall review the floodplain mapping submitted by Papio-Missouri River NRD under Perform Floodplain Mapping to ensure that the results of the analyses performed are accurately represented; the redelineation of existing data on new, updated topography is appropriate; and to ensure that the new DFIRM panels accurately represent the information shown on the effective FIRMs and FBFMs for the unrevised areas that are mapped. If National Service Provider utilizes a contractor to perform the QA, the contractor must be a different contractor than who performed the original floodplain mapping. FEMA may audit or assist in these activities if deemed to be necessary by the Regional Project Officer. This work shall include, at a minimum, the activities listed below.

- Review the cross sections for proper location and orientation on the work map and agreement with the Floodway Data Table.
- Review the BFEs shown on the work map for proper location and agreement with the results of the hydraulic modeling.
- Review the regulatory floodway widths for agreement with the widths shown in the Floodway Data Table and the results of the hydraulic modeling.
- Review the floodplain boundaries for agreement with the flood elevations shown in the Floodway Data Table, the contour lines, and other topographic information shown on the work maps.
- Review the floodplain widths at cross sections as shown on the work maps to ensure the data matches the Floodway Data Table.
- Review the floodplain boundaries as shown on the work maps to ensure the data matches the Flood Profiles.
- For non-revised floodplain areas, the 1- and 0.2-percent-annual-chance floodplain boundaries agree with the floodplain boundaries shown on the FIRM, the contour lines, other topographic information, and planimetric information shown on the DFIRM base.
- Road and floodplain relationships are maintained for all unrevised areas.
- Review the flood insurance risk zones as shown on the work maps to ensure the data are labeled properly.

- Review the DFIRM mapping files to ensure the data were prepared in accordance with the requirements in *Guidelines and Specifications for Flood Hazard Mapping Partners*.
- Review the metadata file to ensure the data includes all required information shown in the FEMA NFIP Metadata Profiles.

Standards: All Independent QC work shall be performed in accordance with the standards specified in Section 5 - Standards.

Deliverables: In accordance with the *Guidelines and Specifications for Flood Hazard Mapping Partners*, National Service Provider shall make the following products available to FEMA by uploading the digital data to MIP, through the Load Studies Data Artifacts portlet under the Data Upload tab under Tools & Links. Additionally, the Technical Support Data Notebook format described in the *Guidelines and Specifications for Flood Hazard Mapping Partners* must be delivered in accordance with Section 2 – Technical and Administrative Support Data Submittal.

- A Summary Report that describes the findings of the QC review, noting any deficiencies in or agreeing with the mapping results;
- Recommendations to resolve any problems that are identified during the Independent QC review; and
- An annotated work map with all questions and/or concerns indicated, if necessary.

MIP workflow step equivalent: Perform Independent QC for Floodplain Mapping.

Concurrent steps: Perform Floodplain Mapping, Validate Content Submission (NSP core Task Order), Rework Data Development Task (if needed as a result of Independent QC).

Develop DFIRM Database

Responsible Mapping Partner: Papio-Missouri River NRD

Scope: Papio-Missouri River NRD shall prepare the database, produced during Perform Floodplain Mapping in accordance with the *Guides and Specifications for Flood Hazard Mapping Partners*, for upload to the MIP. Papio-Missouri River NRD shall coordinate with those Mapping Partners responsible for Floodplain Mapping, as necessary, to resolve any problems that are identified during development of the DFIRM Database. The primary purpose of this activity is to ensure that a quality DFIRM database is prepared earlier in the flood study process and well in advance of the Preliminary DFIRM Map Production and Distribution.

Standards: All DFIRM Database work shall be performed in accordance with the standards specified in Section 5 - Standards.

Deliverables: In accordance with the *Guidelines and Specifications for Flood Hazard Mapping Partners*, Papio-Missouri River NRD shall make the following products available to FEMA by uploading the digital data to the MIP. Additionally, the Technical Support Data Notebook format described in Appendix M of the *Guidelines and Specifications for Flood Hazard Mapping Partners* must be delivered in accordance with Section 2 – Technical and Administrative Support Data Submittal.

- DFIRM database files prepared in accordance with the requirements in *Guidelines and Specifications for Flood Hazard Mapping Partners* and in the format(s) required for the NSP's Validate Content Submission Process; and

- A metadata file complying with the FEMA NFIP Metadata Profile Specifications.

MIP workflow step equivalent: Develop DFIRM Database, Rework Data Development Task (if needed as a result of Independent QC).

Concurrent steps: Perform Independent QC for DFIRM Database (if funded by Region VII), NSP QC Check of Draft DFIRM database (FAFS automated), Database, Validate Content Submission (NSP core Task Order).

NSP QC Check of Draft DFIRM database. The Papio-Missouri River NRD assigned the Develop DFIRM Database task must upload the draft DFIRM database (currently in .e00 format) and draft DFIRM metadata to FAFS through the MIP. The submission is automatically sent to FAFS for data auto-validation. The detailed logic description for the FAFS QC Pro Auto Screen is available from FEMA or its contractor.

Produce Preliminary Map Products

Responsible Mapping Partner: Papio-Missouri River NRD

Scope: Papio-Missouri River NRD shall apply the final FEMA DFIRM graphic and database specifications to the DFIRM files produced under Floodplain Mapping. This work shall include adding all required annotation, line pattern, area shading, and map collar information (e.g., map borders, title blocks, legends, notes to user). Papio-Missouri River NRD will be preparing the database for this project in the Standard format. The database shall be produced in accordance with the *Guides and Specifications for Flood Hazard Mapping Partners*. Papio-Missouri River NRD shall coordinate with those Mapping Partners responsible for the Perform Floodplain Mapping and Develop DFIRM Database tasks to resolve any problems that are identified during development of the Preliminary Map Products.

This task includes the creation of the countywide Flood Insurance Study (FIS) report. The FIS report will include the new study data and portions of the existing community based FIS reports as appropriate. The floodway data tables and profile sheets will be combined as needed to create a continuous table and profile for the subject streams. The elevations shown in the FIS shall be referenced to NAVD 1988 vertical datum.

Only accredited levees, or levees with a provisional accreditation, are to be depicted on the Flood Insurance Rate map. Other levees, including non-accredited levee shown on the effective FIRM, are not to be included.

Floodway Data Tables and Profile sheets for the Missouri River are available from Watershed Concepts. The Papio-Missouri River NRD shall incorporate this information into the countywide FIS as appropriate.

The Papio-Missouri River NRD shall prepare Preliminary SOMAs for all affected communities, if appropriate. The SOMA shall list pertinent information regarding LOMCs that will be affected by the issuance of the DFIRM (i.e., superseded, incorporated, revalidated).

Papio-Missouri River NRD shall address all concerns or questions regarding the Preliminary Map Products that are raised by National Service Provider during the Independent QC review, or during the NSP's Validate Content Submission Process.

When the Papio-Missouri River NRD is not responsible for Post-Preliminary Processing, and if they use a different GIS platform than the National Service Provider then the Papio-Missouri River NRD will have additional activities associated with Post-Preliminary Processing finalize the DFIRM and FIS report. These additional activities are described in the Post-Preliminary Processing activity.

Standards: All DFIRM Database, DFIRM Map, and FIS Report work shall be performed in accordance with the standards specified in Section 5 - Standards. All work must pass the automated and visual “National QA/QC” reviews prior to the distribution of the preliminary copies of the DFIRM and FIS report and the Preliminary SOMA.

Deliverables: In accordance with the *Guidelines and Specifications for Flood Hazard Mapping Partners*, Papio-Missouri River NRD shall make the following products available to FEMA by uploading the digital data to the MIP. Additionally, the Technical Support Data Notebook format described in the *Guidelines and Specifications for Flood Hazard Mapping Partners* must be delivered in accordance with Section 2 – Technical and Administrative Support Data Submittal.

- DFIRM mapping and database files prepared in accordance with the requirements in *Guidelines and Specifications for Flood Hazard Mapping Partners* and in the format(s) required for the NSP QC Process;
- All Digital information used to compile and print panels which can include digital label and annotation files used to create labeling on panels (including all fonts and style files, if applicable) which can comprise cross sections, BFEs, flood insurance zone labels, and all applicable base map features;
- The Flood Insurance Study Report is prepared in the FEMA Countywide Format as documented in the *Guidelines and Specifications for Flood Hazard Mapping Partners*;
- Complete set of plots of DFIRM panels showing all detailed flood hazard information at a suitable scale;
- Draft Preliminary SOMA prepared using the SOMA Tool on the MIP;
- A metadata file complying with the FEMA NFIP Metadata Profile Specifications;
- A Summary Report that describes and provides the results of all automated or manual QA/QC review steps taken during the preparation of the DFIRM as outlined in approved QA/QC Plan; and
- Passing Quality Review report.

MIP workflow step equivalent: Produce Preliminary Map Products, Rework Data Development Task (if needed as a result of Independent QC).

Concurrent steps: Perform Independent QC for Preliminary Map Products (if funded by Region VII), NSP QC Check of Preliminary DFIRM database (FAFS automated) DFIRM and FIS (NSP visual), Validate Content Submission (NSP core Task Order).

NSP QC Check of Preliminary DFIRM and Flood Insurance Study Report (FIS): The Papio-Missouri River NRD assigned the Produce Preliminary Map Products task must upload the Preliminary DFIRM database (currently in .e00 format) and preliminary DFIRM metadata to FAFS through the MIP. The submission is automatically sent to FAFS for data auto-validation. The detailed logic description for the FAFS QC Pro Auto Screen is available from FEMA or its contractor. In addition, the Papio-Missouri River NRD must submit the preliminary DFIRM and FIS report to the Regional Management Center (RMC) prior to distribution. The amount of time necessary to complete the review will vary dependent upon study size. The RMC will review the DFIRM panels and the FIS report, and verify that the DFIRM database has passed the automated database check as indicated by a passing notification from HDM in the

MIP. The RMC will review a sample—roughly 10 percent—of DFIRM panels. In this review, the RMC will look for significant errors. The Papio-Missouri River NRD is responsible for checking all panels and correcting errors identified by the RMC. Any errors identified during this review must be corrected before the Preliminary DFIRM is distributed.

Independent QC Review of Preliminary Map Products

Responsible Mapping Partner: National Service Provider

Scope: Upon completion of the Produce Preliminary Map Products activity, Papio-Missouri River NRD shall review the DFIRM spatial database to determine if it meets current FEMA database specifications. In addition, National Service Provider shall review the DFIRM panels to ensure they meet current FEMA graphic specifications. National Service Provider shall coordinate with other Mapping Partners, as necessary, to resolve any problems identified during this QC review. In addition, National Service Provider shall perform a review of the FIS report including all data tables, Flood Profiles, and other components of the FIS report. If National Service Provider utilizes a contractor to perform the Independent QC, the contractor must be a different contractor than who performed the original analyses. FEMA may audit or assist in these activities if deemed to be necessary by the Regional Project Officer. This work shall ensure that the requirements below are met.

- All required DFIRM features are accurately and legibly labeled and follow the examples shown in the FEMA DFIRM specifications. This includes all flood insurance risk zones, BFEs, cross sections, studied streams, mapped political entities, pertinent notes, and all roads within and adjacent to the 1-percent-annual-chance floodplains.
- All DFIRM features are correctly symbolized with the appropriate symbol, line pattern, or area shading and follow the requirements in *Guidelines and Specifications for Flood Hazard Mapping Partners*.
- All map collar information is complete, correct, and follows the requirements specified in *Guidelines and Specifications for Flood Hazard Mapping Partners*.
- DFIRM mapping files are in a GIS file and database format as specified in FEMA's *Guidelines and Specifications for Flood Hazard Mapping Partners*, and conform to those specifications for content and attribution.
- DFIRM database files are in one of the database formats specified in FEMA's *Guidelines and Specifications for Flood Hazard Mapping Partners*, and conform to those specifications for content and attribution.
- The FIS report is prepared in the FEMA Countywide Format as documented in the *Guidelines and Specifications for Flood Hazard Mapping Partners*.
- Metadata files describing the DFIRM data include all required information shown in the FEMA NFIP Metadata Profile Specifications.

Standards: All DFIRM Database Development work shall be performed in accordance with the standards specified in Section 5 - Standards.

Deliverables: : In accordance with the *Guidelines and Specifications for Flood Hazard Mapping Partners*, National Service Provider shall make the following products available to FEMA by uploading the digital data to the MIP, through the Load Studies Data Artifacts portlet under the Data Upload tab under Tools & Links. Additionally, the Technical Support Data Notebook format described in the *Guidelines and Specifications for Flood Hazard Mapping Partners* must be delivered in accordance with Section 2 – Technical and Administrative Support Data Submittal.

- A Summary Report that describes the findings of the QA review noting any deficiencies in or agreeing with the mapping results and the results of all automated or manual QA steps taken during the Independent QC review;
- Recommendations to resolve any problems that are identified during the Independent QC review;
- An annotated copy of the DFIRM with all questions and/or concerns indicated, if necessary.

MIP workflow step equivalent: Perform Independent QA/QC of Preliminary Map Products.

Concurrent steps: Produce Preliminary Map Products, NSP QC Check of Preliminary DFIRM database (FAFS automated) DFIRM and FIS (NSP visual), Validate Content Submission (NSP core Task Order), Rework Data Development Task (if needed as a result of Independent QC).

Distribute Preliminary Map Products

Responsible Mapping Partners: National Service Provider

Scope: Distribute Preliminary Map Products consists of the printing and distribution of the Preliminary copies of the DFIRM and FIS report for community officials and the general public for review and comment. FEMA may audit or assist in these activities if deemed to be necessary by the Regional Project Officer. The activities to be performed are summarized below.

The National Service Provider shall notify the other Project team members when the Preliminary Date is determined for each county. The Consultation Coordination Officer shall be included in this notification. The notification should be made as soon as the date is determined, but not later than two weeks prior to the Preliminary FIRM date.

Preliminary Transmittal Letter Preparation: The National Service Provider shall prepare transmittal letters for the Preliminary copies of the DFIRM, FIS report and related enclosures to all affected communities, all other Project Team members, the State NFIP Coordinator, the FEMA Regional Office, and others as directed by FEMA. This letter may be prepared for FEMA only or for signature by FEMA and the National Service Provider. A template specific to Region VII is available from the Regional Management Center.

Preliminary FIRM and FIS Countywide Brochure: Region VII has developed a brochure that will be provided to each community with the Preliminary Transmittal Letter. The National Service Provider shall prepare the brochure for each county. The template is available from the Regional Management Center.

Distribution of Preliminary DFIRM and FIS Report: The National Service Provider shall distribute the Preliminary copies of the DFIRM and FIS report to all affected communities, all other Project Team members, the State NFIP Coordinator, the FEMA Regional Office, and others as directed by FEMA. Per Procedure Memorandum No. 38, dated October 17, 2007, FBS self-certification documentation must be submitted within 30 days of the issuance of the preliminary map products.

Standards: All Preliminary Map Products work shall be performed in accordance with the standards specified in Section 5 - Standards.

Deliverables: In accordance with the *Guidelines and Specifications for Flood Hazard Mapping Partners*, the National Service Provider shall make the following products available to FEMA. Additionally, the Technical Support Data Notebook format described in the *Guidelines and Specifications for Flood*

Hazard Mapping Partners must be delivered in accordance with Section 2 – Technical and Administrative Support Data Submittal.

- Preliminary transmittal letters shall be prepared and transmitted. These letters and any additional letters requested by FEMA shall be prepared in accordance with the current version of the *FEMA Document Control Procedures Manual* and in conjunction with Guidance provided by the Region and/or its contractor.
- Preliminary copies of the DFIRM and FIS report, including all updated data tables and Flood Profiles shall be mailed to the Chief Executive Officer (CEO) and floodplain administrator of each affected community, all other Project Team members, the State NFIP Coordinator, the FEMA Regional Office, and others as directed by FEMA.
- Digital files in an Adobe pdf format of each panel and the FIS will be provided to the FEMA Regional Office with the preliminary distribution.
- Preliminary SOMAs, prepared in accordance with FEMA requirements, shall be provided as appropriate.
- Floodplain Boundary Standard (FBS) Self-Certification Documentation submitted to the RMC.
- A Summary Report that describes and provides the results of all automated or manual QA/QC review steps taken during the final preparation of the preliminary DFIRM shall be provided as outlined in the approved QA/QC Plan.

MIP workflow step equivalent: Distribute Preliminary Map Products, Verify Outreach Activities.

Concurrent steps: None

Post-Preliminary Processing

Responsible Mapping Partners: National Service Provider and FEMA

Scope: This activity consists of finalizing the DFIRM, SOMA, and FIS report after the Preliminary copies of the DFIRM and FIS report have been issued to community officials and the public for review and comment. The activities to be performed are summarized below and are subject to the mandatory quality control checks by the National Service Provider (NSP), also as described below.

When the Papio-Missouri River NRD does not use the DFIRM Tools and is not responsible for Post-Preliminary Processing, then the Papio-Missouri River NRD will have additional activities associated with Post-Preliminary Processing finalize the DFIRM and FIS report.

The Consultation Coordination Officer will prepare a report following the final coordination meeting. The CCO will forward the report to the National Service Provider

Initiation of Statutory 90-Day Appeal Period: When required, upon completion of a 30-day community comment period and/or final coordination meeting with the affected communities, National Service Provider shall arrange for and verify that the following activities are completed in accordance with the current version of the *FEMA Guidelines and Specifications for Flood Hazard Mapping Partners* and *Document Control Procedures Manual*:

- The National Service Provider shall prepare and distribute Proposed BFE determination letters to the CEOs and floodplain administrators of affected communities.
- The National Service Provider shall prepare legal notice of BFE changes and verify the notices are published in newspapers with local circulation in accordance with 44 CFR.

- The National Service Provider shall use the BFEs-on-theWeb tool to create BFE notices in accordance with Procedure Memorandum No. 44 – Protocol for Publishing Base Flood Elevation (BFE) Notices on the Web.
- The National Service Provider shall prepare the appropriate notices (Proposed Rules) that are to be published in the *Federal Register*. The National Service Provider shall then deliver those notices to FEMA for publication.

Resolution of Protests: National Service Provider shall review and resolve protests received during the comment or 90-day appeal periods. The activity will include all protests to correct street, stream and other names, corporate boundaries, and floodplain boundary changes due to topographic data. For each protest, the following activities shall be conducted as appropriate:

- Initial processing and acknowledgment of submittal;
- Technical review of submittal to determine validity of protest;
- Preparation of letter(s) requesting additional supporting data; and
- Preparation of a draft resolution letter for co-signature with FEMA and National Service Provider and revised DFIRM and FIS report materials for FEMA review.

National Service Provider shall mail all associated correspondence upon authorization by FEMA.

Resolution of Appeals: National Service Provider shall review and resolve appeals received during the 90-day appeal period. Appeals that are defined by 67.6(b)(1) or 67.6(b)(3) might be considered a change of scope and should be discussed with the Regional Project Manager before proceeding. For each appeal, the following activities shall be conducted as appropriate:

- Initial processing and acknowledgment of submittal;
- Technical review of submittal to determine validity of appeal;
- Preparation of letter(s) requesting additional supporting data;
- Performance of revised analyses; and
- Preparation of a draft resolution letter for co-signature with FEMA and revised DFIRM and FIS report materials for FEMA review.

National Service Provider shall mail all associated correspondence upon authorization by FEMA.

When the Papio-Missouri River NRD is not responsible for Post-Preliminary Processing, and if they use a different GIS platform than the National Service Provider then Papio-Missouri River NRD will have additional activities associated with Post-Preliminary Processing finalize the DFIRM and FIS report.

Resolution of Appeals and Protests: Papio-Missouri River NRD shall provide the revised DFIRM and FIS Report to accompany any protest or appeal resolution letter. The National Service Provider shall provide the Papio-Missouri River NRD with the DFIRM and FIS report corrections for their use in revising the products.

Revision of DFIRM and FIS Report: If necessary, the Papio-Missouri River NRD shall revise the DFIRM and FIS report at the direction of the FEMA Regional Project Officer and provide to the National Service Provider in Adobe .pdf format. The National Service Provider shall distribute Revised preliminary copies of the DFIRM and FIS report to the CEO and floodplain administrator of each affected community, all other Project Team members, the State NFIP Coordinator, the FEMA Regional Office, and others as directed by FEMA.

Letters of Map Change: Papio-Missouri River NRD shall include all effective LOMCs occurring after the Preliminary Map and up to 30 days prior to the QR#5 review, or approximately 90 days prior to Letter of Final Determination (LFD) for each affected community. The National Service Provider will provide Papio-Missouri River NRD with copies of the LOMCs issued between the above-mentioned periods. Only those LOMCs visible at the published map scale shall be included.

Deliverables: The Papio-Missouri River NRD shall make the following products available to the National Service Provider for use in preparing for the final submission to the Map Service Center:

- Post script or encapsulated post script files for each DFIRM map panel and Index map panel. These files will be used for film negative production.
- Adobe .pdf files for the FIS Report cover page, any FIS Report photograph pages, and all profile sheets.

Letters of Map Change: National Service Provider shall include all effective LOMCs occurring after the Preliminary Map and up to 30 days prior to the QR#5 review, or approximately 90 days prior to Letter of Final Determination. Only those LOMCs visible at the published map scale shall be included.

Preparation of Special Correspondence: National Service Provider shall support FEMA in responding to comments not received within the 90-day appeal period (referred to as “special correspondence”) including drafting responses for FEMA review when appropriate and finalizing responses for co-signature. National Service Provider also shall mail the final correspondence (and enclosures, if appropriate) and distribute appropriate copies of the correspondence and enclosures upon receipt of authorization from FEMA.

Revision of FIRM and FIS Report: If necessary, the National Service Provider shall work together with FEMA to revise the DFIRM and FIS report and shall distribute revised Preliminary copies of the DFIRM and FIS report to the CEO and floodplain administrator of each affected community, all other Project Team members, the State NFIP Coordinator, the FEMA Regional Office, and others as directed by FEMA.

Final SOMA Preparation: National Service Provider shall prepare Final SOMAs for the affected communities with assistance from FEMA, as appropriate.

Processing of Letter of Final Determination: The National Service Provider shall work with FEMA to establish the effective date for the DFIRM and FIS report, and shall prepare Letters of Final Determination (LFDs) for each affected community for FEMA review in coordination with the Region and its contractor, and in accordance with the *FEMA Document Control Procedures Manual*. FEMA or its designated contractor shall mail the final signed LFDs and enclosures and distribute appropriate copies of the signed LFDs. All work must pass the automated and visual “National QA/QC” reviews and review of LFD prior to the distribution of the LFD. Per Procedure Memorandum No. 38, dated October 17, 2007, FBS self-certification documentation must be submitted within 30 days of the issuance of the LFD if the floodplain boundaries have been modified during post-preliminary processing.

- The National Service Provider shall prepare the appropriate notices (Final Rules) that are to be published in the *Federal Register*. The National Service Provider shall then deliver those notices to FEMA for publication.

Processing of Final DFIRM and FIS Report for Printing: National Service Provider shall prepare final reproduction materials for the DFIRM and FIS report and provide these materials to MSC for printing by the United States Government Printing Office. National Service Provider shall also prepare the

appropriate paperwork to accompany the DFIRM and FIS report (including Print Processing Worksheet, Printing Requisition Forms, and Community Map Actions Form) and transmittal letters to the community CEOs.

Proof Copies: The National Service Provider will produce and distribute a digital proof copy of the final DFIRM and FIS delivered to the MSC according to the procedures set forth in *Region VII Procedures for Proof Copy Preparation and Distribution* available from the RMC. The proof copy package includes the following:

- CD or DVD containing digital proof copies of the DFIRM panels and FIS report
- Cover letter addressed to the relevant State NFIP Coordinator

National Service Provider will prepare and distribute the proof copy package to the State NFIP Coordinator, with copies to FEMA Region VII and the RMC, within one week of submitting the final DFIRM and FIS report to the MSC.

Revalidation Letter Processing: National Service Provider shall prepare and distribute letters for FEMA signature to the community CEOs and floodplain administrators to notify the affected communities about LOMCs for which determinations will remain in effect after the DFIRM and FIS report become effective.

Archiving Data: National Service Provider shall ensure that technical and administrative support data are packaged in the FEMA required format and stored properly in the library archives until transmitted to the FEMA Engineering Study Data Package Facility. In addition, the National Service Provider will maintain copies of all data for a period of no less than three years.

Standards: All Post Preliminary DFIRM work shall be performed in accordance with the standards specified in Section 5 - Standards.

Deliverables: In accordance with the *Guidelines and Specifications for Flood Hazard Mapping Partners*, National Service Provider shall make the following products available to FEMA by uploading the digital data to the MIP. Additionally, the Technical Support Data Notebook format described in the *Guidelines and Specifications for Flood Hazard Mapping Partners* must be delivered in accordance with Section 2 – Technical and Administrative Support Data Submittal.

Hard copy documents to be supplied through the FEDD file (sent to FEMA library):

- Documentation that the legal notice(s) were published in accordance with FEMA requirements;
- Documentation that the appropriate *Federal Register* notices (Proposed and Final Rules) were published in accordance with FEMA requirements;
- Draft and final Special Correspondence (and all associated enclosures, backup data, and other related information) for FEMA review and signature, as appropriate;
- Draft and final Appeal and Protest acknowledgment, additional data, and resolution letters (and all associated enclosures, backup data, and other related information) for FEMA review and signature, as appropriate;
- Draft and final LFDs (and all associated enclosures, backup data, and other related information) for FEMA review and signature;
- DFIRM negatives and final FIS report materials including all updated data tables and Flood Profiles;
- Paperwork for the final DFIRM and FIS report materials;
- Transmittal letters for the printed DFIRM and FIS report;

- Proof Copy Distribution Letter;
- LOMC Revalidation Letters, if appropriate;
- Completed, organized, and archived technical and administrative support data; and
- Completed, organized, and archived case files and flood elevation dockets.

Documents to be submitted to the RMC:

- Floodplain Boundary Standard (FBS) Self-Certification Documentation, if required for the study.

Digital files to be submitted through the MIP:

- Digital copies of the final DFIRM database, DFIRM panels and FIS report; and
- A metadata file complying with the FEMA NFIP Metadata Profiles Specifications.

MIP workflow step equivalent: All steps within Manage Post Preliminary Processing process train.

Concurrent steps: None.

SECTION 2—TECHNICAL AND ADMINISTRATIVE SUPPORT DATA SUBMITTAL

The Project Team members for this Flood Map Project that have responsibilities for activities included in this MAS shall comply with the data submittal requirements summarized in this section.

All supporting documentation for the activities in this MAS shall be submitted in the TSDN format in accordance with the FEMA *Guidelines and Specifications for Flood Hazard Mapping Partners*. Table 2-1 indicates the sections of the TSDN that apply to each mapping activity.

If any issues arise that could affect the completion of an activity within the proposed scope or budget, the responsible Mapping Partner shall complete a Special Problem Report (SPR) as soon as possible after the issue is identified and submitted to FEMA. The SPR is to describe the issue and propose possible resolutions. (For additional information on SPRs, refer to the *Guidelines and Specifications for Flood Hazard Mapping Partners*.)

SECTION 3—PERIOD OF PERFORMANCE

The mapping activities assigned to Papio-Missouri River NRD in this MAS will be completed within the period of performance specified in the Agreement Articles of the Cooperative Agreement. The Mapping Activities may be terminated at the option of FEMA or Papio-Missouri River NRD in accordance with the provisions of the April 11, 2003 CTP Partnership Agreement. If these mapping activities are terminated, all products produced to date must be returned and updated into the MIP and the remaining funds from uncompleted activities, provided by FEMA for this MAS, will be returned to FEMA.

SECTION 4—FUNDING/LEVERAGE

Funds will be provided to Papio-Missouri River NRD by FEMA through Cooperative Agreement EMK-2007-CA-XXXX for the completion for this Flood Map Project. The Cooperative Agreement budget identifies the amount to be provided by each party.

Activities associated with any additional needs would be performed based on availability of additional funds. The CTP Leverage listed below includes in-kind services and blue book values for acquired information (i.e. base map data, hydrologic and hydraulic analyses, etc.). These values should also be reported in the MIP by the appropriate task owner. The current Blue Book is dated November 2006 and can be downloaded from FEMA's Information Resource Library at <http://www.fema.gov/library/index.jsp>. Papio-Missouri River NRD shall complete Table 4.1 Contribution and Leverage

Table 2-1. Mapping Activities and Applicable TSDN Sections

TSDN Section	Mapping Activities													
	Scoping	Perform Field Survey	Topographic Development	QA/QC of Topographic Data	Acquire Base Map	Hydrologic Analyses	QA/QC of Hydrology	Hydraulic Analysis	QA/QC of Hydraulic Analyses	Perform Floodplain Mapping	QA/QC of Floodplain Mapping	Develop DFRM Database	Distribute Preliminary Map Products	Post-Preliminary Processing
General Documentation														
Special Problem Reports	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Telephone Conversation Reports	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Meeting Minutes/ Reports	X	X	X	X	X	X	X	X	X	X	X	X	X	X
General Correspondence	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Engineering Analyses														
Hydrologic Analyses		X			X	X	X	X	X	X	X			
Hydraulic Analyses		X			X	X	X	X	X	X	X			
Key to Cross-Section Labeling		X			X	X	X	X	X	X	X			

Key to Transect Labeling		X			X	X	X	X	X	X					
Draft FIS Report					X	X	X	X	X						
Mapping Information	X		X	X					X	X	X	X	X	X	X
Miscellaneous Reference Information	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Table 4.1 Contribution and Leverage

Funding for Project/Partner Name	FEMA Contribution	Partner Contribution	% Leverage	Total Project Cost
Perform Field Survey	0	0	0	0
Develop Topographic Mapping	0	0	0	0
Acquire Base Map	\$8,650	\$2,050	19.3	\$10,700
Perform Hydrologic Analyses	0	0	0	0
Perform Hydraulic Analyses	0	0	0	0
Perform Floodplain Mapping and Develop DFIRM Database	\$143,250	\$34,250	19.3	\$177,500
Produce Preliminary Map Products	\$17,200	\$4,100	19.3	21,300
National Service Provider QA/QC Reviews	\$105,900	0	0	\$105,900
TOTAL FUNDING AMOUNTS	\$275,000	\$40,400	12.8	\$315,400

SECTION 5—STANDARDS

The standards relevant to this MAS are provided in Tables 5-1 and 5-2. Information on the correct volume and appendix of the FEMA *Guidelines and Specifications for Flood Hazard Mapping Partners* to be referenced for each mapping activity are summarized in Table 5-2 for convenience. However, all mapping partners working on a Flood Map Project are responsible for complying with all appropriate requirements in FEMA's *Guidelines and Specifications for Flood Hazard Mapping Partners* and related Procedure Memoranda published by FEMA as of the date of this agreement.

These guidelines may be downloaded from the FEMA Flood Hazard Mapping website at http://www.fema.gov/plan/prevent/fhm/dl_cgs.shtm. The Geospatial Data Coordination Policy and the Geospatial Data Coordination Implementation Guide are located at <https://hazards.fema.gov> under "Tools & Links."

Table 5-1. Applicable Standards for Project Activities

	Activities														
	Scoping	Perform Field Survey	Topographic Development	QA/QC Review of Topo Data	Acquire Base Map	Hydrologic Analysis	QA/QC Review of Hydrologic Analysis	Hydraulic Analysis	QA/QC Review of Hydraulic Analysis	Perform Floodplain Mapping	QA/QC Review of Floodplain Mapping	Develop DFIRM Database	QA/QC Review of Preliminary Map	Distribute Preliminary Map Products	Post-Preliminary Processing
Applicable Standards															
Guidelines and Specifications for Flood Hazard Mapping Partners, April 2003	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FEMA's Geospatial Data Coordination Policy	X		X		X										
FEMA's Geospatial Data Coordination Implementation Guide	X		X		X										
Engineer Manual 1110-2-1003, Hydrographic Surveys (USACE), January 1, 2002	X	X													
"Numerical Models Accepted by FEMA for NFIP Usage," Updated April 2003	X					X	X	X	X						
NFIP Metadata Profile Specifications	X		X	X						X	X	X	X	X	X
Document Control Procedures Manual	X													X	X
44 Code of Federal Regulations Part 66 and 67	X													X	

Table 5-2. Project Activities and Applicable Portions of FEMA Guidelines and Specifications

Activity Description	Applicable Volume, Section/Subsection, and Appendix
Scoping	Volume I
Perform Field Survey	Volume I
	Appendix A
	Appendix F
	Appendices B, C, F, and M
Topographic Development	Volume I
	Appendix A
	Appendix M
Independent QA/QC Review of Topographic Data	Volume I,
	Appendix A
	Appendix M
Acquire Base Map	Volume I
	Appendices A, K, L, and M
Perform Hydrologic Analyses	Volume I
	Appendix A
	Appendix C
	Appendices E, F, G, H, M

Activity Description	Applicable Volume, Section/Subsection, and Appendix
Perform Independent QA/QC Review of Hydrologic Analyses	Volume 1
	Appendix A
	Appendix C
	Appendices E, F, G, H, M
Perform Hydraulic Analyses	Volume 1
	Appendix A
	Appendix C
	Appendices B, E, F, G, H, M
Perform Independent QA/QC Review of Hydraulic Analyses	Volume 1
	Appendix A
	Appendix C
	Appendices B, E, F, G, H, M
	Appendix C
	Appendices B, D, and M
Perform Floodplain Mapping	Appendix A
	Appendices B, D, H and M
	Volume 1
	Appendix C
	Appendix D
	Appendices E, F, G, H, K, L, and M
Perform Independent QA/QC Review of Floodplain Mapping	Volume 1
	Appendix C
	Appendices K, L, and M
Perform Independent QA/QC Review of Floodplain Mapping	Volume 1
	Appendix C

Activity Description	Applicable Volume, Section/Subsection, and Appendix
	Appendix D Appendices E, F, G, H, K, L, and M
Perform Independent QA/QC Review of Preliminary Map Product	Volume 1 Appendices K, L, and M
Distribute Preliminary Map Products	Volume 1 Appendices J, K, L, and M
Post-Preliminary Processing	Volume 1 Appendices J, K, L, and M

SECTION 6—SCHEDULE

The tasks documented in this Mapping Activity Statement shall be completed in accordance with the project schedule. The Papio-Missouri River NRD will use the MIP to report progress, entering Cost to Date, Percent Complete to Date, and “As of” date in the “Update Information” section of the Task Information screen for each task. Within three weeks of funds award, the Papio-Missouri River NRD will provide the RMC with the initial schedule for each county for entry into the MIP. The data reported in the MIP will include estimated and actual completion dates, budget and amount spent, and the percent complete of each task identified in the Mapping Activity Statement. Each county identified in Table 1-1 will have separate schedule established.

The Papio-Missouri River NRD will update the MIP at least monthly, and when a task is completed.

SECTION 7—CERTIFICATIONS

Field Surveys and Topographic Data Development

A Registered Professional Engineer or Licensed Land Surveyor shall provide an accuracy statement for field surveys and/or topographic data used and shall certify these data meet the accuracy statement provided. Data accuracy should be stated used the Federal Geographic Data Committee National Standards for Spatial Data Accuracy, but the American Society for Photogrammetry and Remote Sensing accuracy reporting standards are acceptable.

Base Map Acquisition and Preparation

- A community official or responsible party shall provide written certification that the digital data meet FEMA minimum standards and specifications.
- The responsible Mapping Partner shall provide documentation that the digital base map can be used by FEMA. Please note that uploading base map data to the MIP does not constitute agreement that the digital base map can be used by FEMA. Documentation that the digital base map can be used by FEMA is still being required.
- Certifications must be made at the time the intermediate data is submitted. For example, if hydrologic data is submitted, certification will be required at the time it is submitted.

Hydrologic Analyses, Hydraulic Analyses, and Floodplain Mapping

- A Registered Professional Engineer shall certify hydrologic and hydraulic analyses and data in accordance with 44 CFR 65.6(f).

Any levee systems to be accredited will be certified in accordance with 44 CFR 65.10.

SECTION 8—TECHNICAL ASSISTANCE AND RESOURCES

Project Team members may obtain copies of FEMA-issued LOMCs, archived engineering backup data, and data collected as part of the Mapping Needs Assessment Process from FEMA and/or your Regional Project Officer.

General technical and programmatic information, such as FEMA 265 and the Quick-2 computer program, can be downloaded from the FEMA website at <http://www.fema.gov/plan/prevent/fhm/index.shtm>. Specific technical and programmatic support may be provided through FEMA and/or its contractor; such assistance should be requested through the FEMA Project Officer specified in Section 12 – Points of Contact.

Project Team members also may consult with the FEMA Regional Project Officer to request support in the areas of selection of data sources, digital data accuracy standards, assessment of vertical data accuracy, data collection methods or subcontractors, and GIS-based engineering and modeling training.

SECTION 9—CONTRACTORS

Papio-Missouri River NRD intends to use the services of a CTP Study Contractor as a contractor for this Flood Map Project. Papio-Missouri River NRD shall ensure that the procurement for all contractors used for this Flood Map Project complies with the requirements of 44 CFR 13.36.

Part 13 may be downloaded in PDF or text format from the United States Government Printing Office website at http://www.access.gpo.gov/nara/cfr/waisidx_04/44cfr13_04.html.

SECTION 10—REPORTING

Papio-Missouri River NRD shall provide progress and financial reports to the FEMA Regional Project Officer and Assistance Officer in accordance with Cooperative Agreement Articles V & VI, and 44 CFR 13.40 and 13.41.

EARNED VALUE REPORTING:

Earned Value Reporting: The MIP Workflow is designed to track the Earned Value of mapping projects. This information is automatically calculated by the MIP, using the Actual cost and schedule of work performed, or “actuals” and comparing them to the expected cost and schedule of work performed, or “baseline”.

Once the FEMA Regional office has issued a task order the NSP will complete the “Obligate Project Funds” screen in the MIP. This step establishes the baseline for the project in the MIP, using the cost and schedule information for each activity.

The MIP study workflow allows Papio-Missouri River NRD to report on the status of these projects at a task level. The cost and schedule information, updated by the Papio-Missouri River NRD for each contracted task, is compared to the baseline established for those tasks. This information is rolled up to a project level and monitored by the FEMA Region to assess progress and Earned Value.

Earned Value reporting involves the reporting of cost, schedule and performance (physical percent complete) in the MIP by the Papio-Missouri River NRD.

Once the baseline schedule and cost is established in the MIP, the Papio-Missouri River NRD shall input the performance and actual cost to date for each contracted task for each project. This must be completed at least monthly. When a task is completed, including all QA/QC activities in this MAS plus the Quality Control Reviews established in PM 42, the Papio-Missouri River NRD shall enter 100% complete, enter the actual completion cost, and the actual completion date within the Manage Data Development, Manage Preliminary Map Production, or Manage Post Preliminary Processing, as applicable.

Progress reporting shall utilize the MIP to the extent possible. Other progress reports are not anticipated. When the Papio-Missouri River NRD provides deliverables through the MIP, the Papio-Missouri River NRD shall ensure the MIP reflects the status of the related task. The Papio-Missouri River NRD will submit two (2) copies of the MIP Flood Engineering Report and other appropriate reports to the FEMA Assistance Officer for quarterly progress reporting.

The Project Officer, as needed, may request additional information on status on an ad hoc basis.

SECTION 11—PROJECT COORDINATION

Throughout the project, all members of the Project Team will coordinate, as necessary, to ensure the products meet the technical and format specifications required and contain accurate, up-to-date information. Coordination activities shall include:

- Meetings, teleconferences, and video conferences with FEMA and other Project Team members on an ad hoc basis;
- Telephone conversations with FEMA and other Project Team members on an ad hoc basis;
- Updates to the MIP and other FEMA status information systems in accordance with requirements in Volumes 1 and 3 of *Guidelines and Specifications for Flood Hazard Mapping Partners*; and
- E-mail, facsimile transmissions, and letters, as required.
- Project Team members shall meet with the Regional Management Center and/or FEMA quarterly to review the progress of the project. These meetings will be held via a conference call at a mutually agreeable time to be determined. Typically, the call will occur following the submittal of the quarterly progress report.

SECTION 12—POINTS OF CONTACT

The points of contact for this Flood Map Project are Robert Franke the FEMA Regional Project Officer; Paul Woodward, the Project Manager for CTP; or subsequent personnel of comparable experience who are appointed to fulfill these responsibilities. When necessary, any additional FEMA assistance should be requested through the FEMA Regional Project Officer.

Each party has caused this MAS to be executed by its duly authorized representative.

John Winkler
General Manager
Papio-Missouri River NRD

Date

Robert G Bissell
Director, Mitigation Division
Federal Emergency Management Agency, Region VII

Date

Exhibit A

Counties that will include UMRSFSS-based data

Douglas

Sarpy

Washington

EXHIBIT B

Summary of Deliverables provided to Mapping Partners

Mapping of the Upper Mississippi River System Flow Frequency Study (UMRSFFS)

Location of Data on the MIP: J:\FEMAR07\MISSOURI_29\StatewideData\UMRSFFS

MISSOURI and

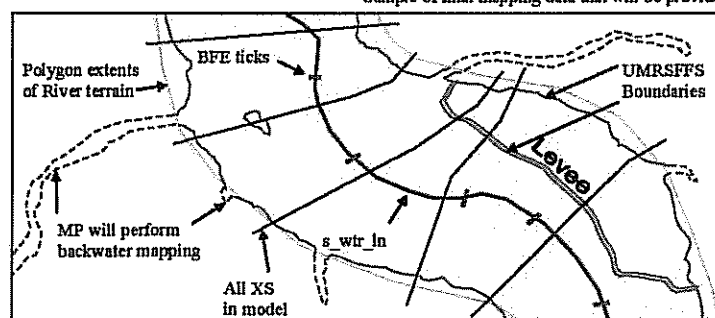
MISSISSIPPI RIVERS

Note: The horizontal projection for all spatial files will be NAD 1983 StatePlane Missouri West FIPS 2403 Feet

Missouri River
Mississippi River

Deliverable	Details	Estimated Months Available
s_fid_haz_in	<p>**Provided county-by-county</p> <p>**Will contain "cleaned" 100-yr/500-yr boundaries for the river (small islands deleted, etc.) Larger islands will be left to the discretion of the mapping partner to delete/keep based on the panel size</p> <p>**Will not contain limit lines (LOS, LODS)</p> <p>**Will include floodway lines as the Corps provided them. MP may have to adjust the floodway line to be at the landward toe of the levee if the floodway limit is at the levee.</p> <p>**Will not be provided in polygon format</p> <p>**Boundaries will extend to end of river bluff-to-bluff terrain only. MP will have to merge backwater with incoming tribs and "close off" gaps in the boundary with supplemental topo data in the county for areas where the UMRSFFS topo ends (see diagram below)</p> <p>**No assessment of levees will be made. MP will have to decide to cut the mapping off at the levees or keep the floodplain as fully extended based on whether the levee provides protection.</p> <p>**Will be provided as a separate file for each county. The s_fid_haz_in file in each county will be cleaned and clipped just outside of the county boundary. MP will have to clip it to the final county boundary during their mapping process.</p> <p>**Boundary will be FBS-compliant (results of the FBS check will be provided)</p>	<p>All UMR MO River Map Mod counties available by end of May 2008</p> <p>All UMR MS River Map Mod counties available by end of October 2008</p>
s_perimeter	<p>**Provided for entire extents of the river</p> <p>**Terrain DCS file that will be available on the MIP to view extents of terrain</p>	AVAILABLE
s_xs	<p>**Provided for entire extents of the river</p> <p>**MP will have to clip out the cross-sections for their county</p> <p>**The following information will be populated for each cross-section: XS_LN_ID; STREAM_STN; WTR_NM; WSEL_REG; LEN_UNIT; V_DATUM. And other required Appendix L fields (including XS_LTR and XS_LN_TYP) will have to be populated by the MP.</p> <p>**The 500-yr elevation from the UMRSFFS UNET model at each XS will be added into the shapefile as additional information, although this field should be removed before finalizing the s_xs layer in the final DFIRM database.</p> <p>**WSEL_REG will be in NAVD88 and will match the 100-yr elevation from the HEC-RAS model</p>	AVAILABLE
s_wtr_in	<p>**Provided for the entire extents of the river</p> <p>**The modeled stream centerline will be provided as one feature in the s_wtr_in file</p> <p>**Will be populated by defining the WATER_TYP element as PROFILE BASELINE</p> <p>**MP will have to clip out the line for their county</p> <p>**The following fields will be populated: WTR_LN_ID; WATER_TYP; WTR_NM. All other required fields will have to be populated by the MP.</p>	<p>AVAILABLE</p> <p>April 2008</p>
BFE tick shapefile	<p>**Will <i>not</i> be submitted in s_bfe format</p> <p>**Provided county-by-county</p> <p>**Will contain the raw output from WISE, showing the location of natural (whole foot) and significant break BFE lines. Panel edge BFEs will not be provided.</p> <p>**Significant break BFE lines will show both the rounded (ELEV field) and unrounded (ELEV_DEC field) elevations in the attribute table of the shapefile provided.</p> <p>**Lines provided will just be short tick marks to show location. MP will have to select which BFEs to print and will have to extend/orientate the BFEs. MP may also have to create panel edge BFEs once panel layout in their county is finalized.</p>	<p>All UMR counties by end of May 2008</p> <p>All UMR counties by end of Oct 2008</p>
Flood Profiles	<p>**Provided county-by-county</p> <p>**Will show the 10-, 50-, and 500-yr elevations from the UMRSFFS UNET model & the 100-yr elevation from the HEC-RAS model</p> <p>**Will be provided in digital (*.dwg) AutoCAD 2006 format - PDFs will not be provided</p> <p>**Profiles will show all cross-sections in the model so that MP can "pick and choose" which ones to print on the maps</p> <p>**MP will have to edit profiles based on final cross-section lettering selection</p> <p>**Road crossings w/ structure symbols will be included on the profiles</p> <p>**Road names should be verified by the MP using the final base data in their county</p> <p>**MP will have to add in tributary confluence locations, limits of flooding affecting community notes, corporate limits, or other notes on the profiles using county data</p> <p>**MP will have to adjust the profile number (lower right corner of profile) to fit in with the overall county FIS profiles</p> <p>**Profile border will be to FEMA spec</p> <p>**Profiles will be created at either a 1" = 1 river mile or 1" = 2 river miles scale (preference being 1" = 2 miles)</p>	<p>All UMR counties by end of May 2008</p> <p>All UMR counties by end of Oct 2008</p>
Floodway Data Tables (FDTs)	<p>**Provided county-by-county</p> <p>**FDTs will show all cross-sections in the model so that MP can "pick and choose" which ones to print on the maps</p> <p>**MP will have to change FDTs based on final cross-section lettering selection</p> <p>**Elevations provided will be in NAVD88 and will match elevations from the HEC-RAS model</p>	<p>End of May 2008</p> <p>End of Oct 2008</p>
FIS Report text/tables	<p>**Provided county-by-county</p> <p>**FIS report text and tables documenting the UMRSFFS data will be provided</p> <p>**MP will have to incorporate the write-up and tables into the countywide FIS report for their county</p>	<p>End of May 2008</p> <p>End of Oct 2008</p>

Sample of final mapping data that will be provided



Opportunity Title:	Cooperating Technical Partners (CTP)
Offering Agency:	Region 7
CFDA Number:	97.045
CFDA Description:	Cooperating Technical Partners
Opportunity Number:	DHS-08-GPD-045-007
Competition ID:	
Opportunity Open Date:	02/25/2008
Opportunity Close Date:	07/15/2008
Agency Contact:	Beth Norton, CFM Beth.norton@dhs.gov 202-646-2716

This electronic grants application is intended to be used to apply for the specific Federal funding opportunity referenced here.

If the Federal funding opportunity listed is not the opportunity for which you want to apply, close this application package by clicking on the "Cancel" button at the top of this screen. You will then need to locate the correct Federal funding opportunity, download its application and then apply.

This opportunity is only open to organizations, applicants who are submitting grant applications on behalf of a company, state, local or tribal government, academia, or other type of organization.

* Application Filing Name: Papio-Missouri River NRD

Mandatory Documents

Move Form to
Complete

Move Form to
Delete

Mandatory Documents for Submission

Application for Federal Assistance (SF-424)
Budget Information for Non-Construction Program
Assurances for Non-Construction Programs (SF-424)

Optional Documents

Move Form to
Submission List

Move Form to
Delete

Optional Documents for Submission

Disclosure of Lobbying Activities (SF-LLL)
Attachments

Instructions

1

Enter a name for the application in the Application Filing Name field.

- This application can be completed in its entirety offline; however, you will need to login to the Grants.gov website during the submission process.
- You can save your application at any time by clicking the "Save" button at the top of your screen.
- The "Save & Submit" button will not be functional until all required data fields in the application are completed and you clicked on the "Check Package for Errors" button and confirmed all data required data fields are completed.

2

Open and complete all of the documents listed in the "Mandatory Documents" box. Complete the SF-424 form first.

- It is recommended that the SF-424 form be the first form completed for the application package. Data entered on the SF-424 will populate data fields in other mandatory and optional forms and the user cannot enter data in these fields.
- The forms listed in the "Mandatory Documents" box and "Optional Documents" may be predefined forms, such as SF-424, forms where a document needs to be attached, such as the Project Narrative or a combination of both. "Mandatory Documents" are required for this application. "Optional Documents" can be used to provide additional support for this application or may be required for specific types of grant activity. Reference the application package instructions for more information regarding "Optional Documents".
- To open and complete a form, simply click on the form's name to select the item and then click on the ==> button. This will move the document to the appropriate "Documents for Submission" box and the form will be automatically added to your application package. To view the form, scroll down the screen or select the form name and click on the "Open Form" button to begin completing the required data fields. To remove a form/document from the "Documents for Submission" box, click the document name to select it, and then click the <= button. This will return the form/document to the "Mandatory Documents" or "Optional Documents" box.
- All documents listed in the "Mandatory Documents" box must be moved to the "Mandatory Documents for Submission" box. When you open a required form, the fields which must be completed are highlighted in yellow with a red border. Optional fields and completed fields are displayed in white. If you enter invalid or incomplete information in a field, you will receive an error message.

3

Click the "Save & Submit" button to submit your application to Grants.gov.

- Once you have properly completed all required documents and attached any required or optional documentation, save the completed application by clicking on the "Save" button.
- Click on the "Check Package for Errors" button to ensure that you have completed all required data fields. Correct any errors or if none are found, save the application package.
- The "Save & Submit" button will become active; click on the "Save & Submit" button to begin the application submission process.
- You will be taken to the applicant login page to enter your Grants.gov username and password. Follow all onscreen instructions for submission.

Application for Federal Assistance SF-424

Version 02

* 1. Type of Submission:

- ☐ Preapplication
☒ Application
☐ Changed/Corrected Application

* 2. Type of Application:

- ☒ New
☐ Continuation
☐ Revision

* If Revision, select appropriate letter(s):

* Other (Specify)

* 3. Date Received:

06/03/2008

4. Applicant Identifier:

5a. Federal Entity Identifier:

* 5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:

7. State Application Identifier:

8. APPLICANT INFORMATION:

* a. Legal Name:

Papio-Missouri River Natural Resources District

* b. Employer/Taxpayer Identification Number (EIN/TIN):

47-0542469

* c. Organizational DUNS:

078035185

d. Address:

* Street1:

8901 S. 154th Street

Street2:

* City:

Omaha

County:

* State:

NE: Nebraska

Province:

* Country:

USA: UNITED STATES

* Zip / Postal Code:

68138-3621

e. Organizational Unit:

Department Name:

Division Name:

f. Name and contact information of person to be contacted on matters involving this application:

Prefix:

* First Name:

Paul

Middle Name:

* Last Name:

Woodward

Suffix:

Title: Water Resources Engineer

Organizational Affiliation:

* Telephone Number:

402-444-6222

Fax Number:

402-895-6543

* Email:

pwoodward@papiomrd.org

Application for Federal Assistance SF-424

Version 02

9. Type of Applicant 1: Select Applicant Type:

D: Special District Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

*** Other (specify):**

*** 10. Name of Federal Agency:**

Region 7

11. Catalog of Federal Domestic Assistance Number:

97.045

CFDA Title:

Cooperating Technical Partners

*** 12. Funding Opportunity Number:**

DHS-08-GPD-045-007

*** Title:**

Cooperating Technical Partners (CTP)

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

Washington County, Nebraska

*** 15. Descriptive Title of Applicant's Project:**

Digital Flood Insurance Rate Map Production for Washington County, NE

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

Application for Federal Assistance SF-424

Version 02

16. Congressional Districts Of:

* a. Applicant

* b. Program/Project

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment

Delete Attachment

View Attachment

17. Proposed Project:

* a. Start Date:

* b. End Date:

18. Estimated Funding (\$):

* a. Federal	<input type="text" value="169,100.00"/>
* b. Applicant	<input type="text" value="40,400.00"/>
* c. State	<input type="text" value="0.00"/>
* d. Local	<input type="text" value="0.00"/>
* e. Other	<input type="text" value="0.00"/>
* f. Program Income	<input type="text" value="0.00"/>
* g. TOTAL	<input type="text" value="209,500.00"/>

* 19. Is Application Subject to Review By State Under Executive Order 12372 Process?

- ☐ a. This application was made available to the State under the Executive Order 12372 Process for review on
- ☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.
- ☒ c. Program is not covered by E.O. 12372.

* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation.)

☐ Yes ☒ No

21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: * First Name:
Middle Name:
* Last Name:
Suffix:

* Title:

* Telephone Number: Fax Number:

* Email:

* Signature of Authorized Representative: * Date Signed:

Application for Federal Assistance SF-424

Version 02

*** Applicant Federal Debt Delinquency Explanation**

The following field should contain an explanation if the Applicant organization is delinquent on any Federal Debt. Maximum number of characters that can be entered is 4,000. Try and avoid extra spaces and carriage returns to maximize the availability of space.

BUDGET INFORMATION - Non-Construction Programs

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. CTP	97-045	\$	\$	\$ 169,100.00	\$ 40,400.00	\$ 209,500.00
2.						
3.						
4.						
5. Totals		\$	\$	\$ 169,100.00	\$ 40,400.00	\$ 209,500.00

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1) CTP	(2)	(3)	(4)	
a. Personnel	\$ 0.00	\$	\$	\$	\$
b. Fringe Benefits	0.00				
c. Travel	0.00				
d. Equipment	0.00				
e. Supplies	0.00				
f. Contractual	209,500.00				209,500.00
g. Construction	0.00				
h. Other	0.00				
i. Total Direct Charges (sum of 6a-6h)	209,500.00				209,500.00
j. Indirect Charges	0.00				
k. TOTALS (sum of 6i and 6j)	\$ 209,500.00	\$	\$	\$	209,500.00
7. Program Income	\$ 0.00	\$	\$	\$	\$

Authorized for Local Reproduction

SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS	
8. <small>CTP</small>	\$ 40,400.00	\$	\$	\$	40,400.00
9.					
10.					
11.					
12. TOTAL (sum of lines 8-11)	\$ 40,400.00	\$	\$	\$	40,400.00

SECTION D - FORECASTED CASH NEEDS				
Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$	\$	\$	\$
14. Non-Federal	\$			
15. TOTAL (sum of lines 13 and 14)	\$	\$	\$	\$

SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT				
(a) Grant Program	FUTURE FUNDING PERIODS (YEARS)			
	(b) First	(c) Second	(d) Third	(e) Fourth
16. <small>CTP</small>	\$	\$	\$	\$
17.				
18.				
19.				
20. TOTAL (sum of lines 16 - 19)	\$	\$	\$	\$

SECTION F - OTHER BUDGET INFORMATION	
21. Direct Charges:	22. Indirect Charges:
23. Remarks:	

ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee- 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

<p>* SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL</p> <p>Paul Woodward</p>	<p>* TITLE</p> <p>Water Resources Engineer</p>
<p>* APPLICANT ORGANIZATION</p> <p>Papio-Missouri River Natural Resources District</p>	<p>* DATE SUBMITTED</p> <p>06/03/2008</p>

DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose lobbying activities pursuant to 31 U.S.C.1352

Approved by OMB
0348-0046

1. * Type of Federal Action: <input type="checkbox"/> a. contract <input checked="" type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance	2. * Status of Federal Action: <input type="checkbox"/> a. bid/offer/application <input checked="" type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award	3. * Report Type: <input checked="" type="checkbox"/> a. initial filing <input type="checkbox"/> b. material change
4. Name and Address of Reporting Entity: <input checked="" type="checkbox"/> Prime <input type="checkbox"/> SubAwardee *Name: Papio-Missouri River NRD *Street 1: 8901 South 154th Street Street 2: _____ *City: Omaha State: NE: Nebraska Zip: 68138-3621 Congressional District, if known: 1, 2		
5. If Reporting Entity in No.4 is Subawardee, Enter Name and Address of Prime: 		
6. * Federal Department/Agency: DHS-FEMA	7. * Federal Program Name/Description: Cooperating Technical Partners CFDA Number, if applicable: 97.045	
8. Federal Action Number, if known: _____	9. Award Amount, if known: \$ _____	
10. a. Name and Address of Lobbying Registrant: Prefix: Mr. *First Name: Bob Middle Name: _____ *Last Name: weaver Suffix: _____ *Street 1: 11 Dupont Circle, Suite 700 Street 2: _____ *City: Washington DC State: DC: District of Columbia Zip: 20036		
b. Individual Performing Services (including address if different from No. 10a) Prefix: _____ *First Name: Bob Middle Name: _____ *Last Name: weaver Suffix: _____ *Street 1: _____ Street 2: _____ *City: _____ State: _____ Zip: _____		
11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when the transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure. * Signature: Paul Woodward *Name: Prefix: _____ *First Name: paul Middle Name: _____ *Last Name: Woodward Suffix: _____ Title: Water Resources Engineer Telephone No.: 402-444-6222 Date: 06/03/2008		
Federal Use Only:		Authorized for Local Reproduction Standard Form - LLL (Rev. 7-97)

ATTACHMENTS FORM

Instructions: On this form, you will attach the various files that make up your grant application. Please consult with the appropriate Agency Guidelines for more information about each needed file. Please remember that any files you attach must be in the document format and named as specified in the Guidelines.

Important: Please attach your files in the proper sequence. See the appropriate Agency Guidelines for details.

1) Please attach Attachment 1	080528-MAS_Washington County	Add Attachment	Delete Attachment	View Attachment
2) Please attach Attachment 2	080513-Washington_Time_and_Co	Add Attachment	Delete Attachment	View Attachment
3) Please attach Attachment 3		Add Attachment	Delete Attachment	View Attachment
4) Please attach Attachment 4		Add Attachment	Delete Attachment	View Attachment
5) Please attach Attachment 5		Add Attachment	Delete Attachment	View Attachment
6) Please attach Attachment 6		Add Attachment	Delete Attachment	View Attachment
7) Please attach Attachment 7		Add Attachment	Delete Attachment	View Attachment
8) Please attach Attachment 8		Add Attachment	Delete Attachment	View Attachment
9) Please attach Attachment 9		Add Attachment	Delete Attachment	View Attachment
10) Please attach Attachment 10		Add Attachment	Delete Attachment	View Attachment
11) Please attach Attachment 11		Add Attachment	Delete Attachment	View Attachment
12) Please attach Attachment 12		Add Attachment	Delete Attachment	View Attachment
13) Please attach Attachment 13		Add Attachment	Delete Attachment	View Attachment
14) Please attach Attachment 14		Add Attachment	Delete Attachment	View Attachment
15) Please attach Attachment 15		Add Attachment	Delete Attachment	View Attachment