

**NEW RIVER CHANNELIZATION
GRAND AVENUE TO SKUNK CREEK**

LETTER OF MAP REVISION SUBMITTAL

Contract FCD2003 C001

PCN No. 400-06-31

November 2006

Submitted to:

Federal Emergency Management Agency
Hazard Study Branch
Mr. Matthew Miller, Chief
Technical Services Division
500C Street Southwest
Washington, D.C. 20472
Phone: (202)646-2746

Submitted by:

Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, AZ 85009
Phone: 602-506-1501



Federal Emergency Management Agency

Washington, D.C. 20472

AUG 9 2007

FLOOD CONTROL DISTRICT RECEIVED	
AUG 13 '07	
CH & GM	FINANCE
PIO	LANDS
ADMIN	C & M
REG	P & PW
ENG	FILE
CONTRACTS	
ROUTING	

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:
Case No.: 07-09-0452P

The Honorable John C. Keegan
Mayor, City of Peoria
City of Peoria Municipal Complex
8401 West Monroe Street
Peoria, AZ 85345

Follows Conditional Case No.: 05-09-1046R
Community: City of Peoria, AZ
Community No.: 040050
FIRM Panel Affected: 04013C1610 J and
04013C1630 H

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Dear Mayor Keegan:

In a Letter of Map Revision (LOMR) dated March 9, 2007, you were notified of proposed modified flood elevation determinations affecting the Flood Insurance Rate Map (FIRM) and Flood Insurance Study (FIS) report for the City of Peoria, Maricopa County, Arizona. These determinations were for New River - from approximately 1,150 feet upstream of Grand Avenue to approximately 5,200 feet upstream of Thunderbird Road. The 90-day appeal period that was initiated on April 5, 2007, when the Department of Homeland Security's Federal Emergency Management Agency (FEMA) published a notice of proposed Base Flood Elevations (BFEs) in the *Arizona Business Gazette*, has elapsed.

FEMA received no valid requests for changes to the modified BFEs. Therefore, the modified BFEs that became effective on March 9, 2007, remain valid and revise the FIRM and FIS report that were in effect prior to that date.

The modifications are pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and are in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. The community number(s) and suffix code(s) are unaffected by this revision. The community number and appropriate suffix code as shown above will be used by the National Flood Insurance Program (NFIP) for all flood insurance policies and renewals issued for your community.

FEMA has developed criteria for floodplain management as required under the above-mentioned Acts of 1968 and 1973. To continue participation in the NFIP, your community must use the modified BFEs to carry out the floodplain management regulations for the NFIP. The modified BFEs will also be used to calculate the appropriate flood insurance premium rates for all new buildings and their contents and for the second layer of insurance on existing buildings and their contents.

If you have any questions regarding the necessary floodplain management measures for your community or the NFIP in general, please call the Director, Federal Insurance and Mitigation Division of FEMA in Oakland, California at (510) 627-7103.

If you have any questions regarding the LOMR, the proposed modified BFEs, or mapping issues in general, please call the FEMA Map Assistance Center, toll free, at 1-877-FEMA MAP (1-877-336-2627).

Sincerely,



William R. Blanton Jr., CFM, Chief
Engineering Management Section
Mitigation Division

cc:

Mr. David A. Moody, P.E.
City Engineer
Department of Public Works
City of Peoria

Ms. Catherine W. Regester, P.E., CFM
Senior Engineer
Flood Control District of Maricopa County

Mr. John Holmes, CFM
Hydrologist
Flood Control District of Maricopa County

Mr. Brian Cosson, CFM
NFIP Coordinator
Office of Dam Safety and Flood Mitigation
Arizona Department of Water Resources



NATIONAL FLOOD INSURANCE PROGRAM

FEMA NATIONAL SERVICE PROVIDER

December 19, 2006

John W. Holmes, CFM
Hydrologist
Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, AZ 85009

IN REPLY REFER TO:
Case No.: 07-09-0452P
Community: City of Peoria, AZ
Community No.: 040050

316-ACK

Dear Mr. Holmes:

This responds to your request dated November 3, 2006, that the Department of Homeland Security's Federal Emergency Management Agency (FEMA) issue a revision to the Flood Insurance Rate Map (FIRM) for Maricopa County, Arizona and Incorporated Areas. Pertinent information about the request is listed below.

Identifier:	New River Channel – Grand Avenue to Skunk Creek
Flooding Source:	New River
FIRM Panel(s) Affected:	04013C1610 H and 04013C1630 G

We have completed an inventory of the items you submitted. Our review of the submitted data indicates we have the minimum data required to perform a detailed technical review of your request. We have also received the required review and processing fee (\$4,000). If additional data are required or if delays are encountered, we will inform you within 60 days of the date of this letter.

Please direct questions concerning your request to us at the address shown at the bottom of this page. For identification purposes, please include the case number referenced above on all correspondence.

If you have general questions about your request, FEMA policy, or the National Flood Insurance Program, please call the FEMA Map Assistance Center, toll free, at 1-877-FEMA MAP (1-877-336-2627). If you have specific questions concerning your request, please call the Revisions Coordinator for your State, Ms. Jennifer Winters, who may be reached at (720) 514-1107.

Sincerely,

Sheila M. Norlin, CFM
National LOMC Manager
Michael Baker Jr., Inc.

cc: Mr. David A. Moody, P.E.
City Engineer
City of Peoria
Department of Public Works

Ms. Catherine W. Regester, P.E., CFM
Senior Engineer
Flood Control District of Maricopa County

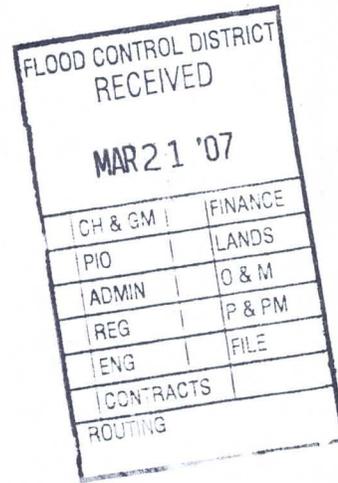
Mr. Brian Cosson, CFM
NFIP Coordinator
Arizona Department of Water Resources



Federal Emergency Management Agency

Washington, D.C. 20472

MAR 09 2007



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable John C. Keegan
Mayor, City of Peoria
City of Peoria Municipal Complex
8401 West Monroe Street
Peoria, AZ 85345

IN REPLY REFER TO:
Case No.: 07-09-0452P
Follows Conditional
Case No.: 05-09-1046R
Community Name: City of Peoria, AZ
Community No.: 040050
Effective Date of **MAR 09 2007**
This Revision:

Dear Mayor Keegan:

The Flood Insurance Study Report and Flood Insurance Rate Map for your community have been revised by this Letter of Map Revision (LOMR). Please use the enclosed annotated map panel(s) revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals issued in your community.

Additional documents are enclosed which provide information regarding this LOMR. Please see the List of Enclosures below to determine which documents are included. Other attachments specific to this request may be included as referenced in the Determination Document. If you have any questions regarding floodplain management regulations for your community or the National Flood Insurance Program (NFIP) in general, please contact the Consultation Coordination Officer for your community. If you have any technical questions regarding this LOMR, please contact the Director, Federal Insurance and Mitigation Division of the Department of Homeland Security's Federal Emergency Management Agency (FEMA) in Oakland, California, at (510) 627-7175, or the FEMA Map Assistance Center, toll free, at 1-877-336-2627 (1-877-FEMA MAP). Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Sincerely,

Max H. Yuan, P.E., Project Engineer
Engineering Management Section
Mitigation Division

For: William R. Blanton Jr., CFM, Chief
Engineering Management Section
Mitigation Division

List of Enclosures:

- Letter of Map Revision Determination Document
- Annotated Flood Insurance Rate Map
- Annotated Flood Insurance Study Report

cc: Mr. David A. Moody, P.E.
City Engineer
Department of Public Works
City of Peoria

Mr. Brian Cosson, CFM
NFIP Coordinator
Office of Dam Safety and Flood Mitigation
Arizona Department of Water Resources

Ms. Catherine W. Regester, P.E., CFM
Senior Engineer
Flood Control District of Maricopa County

Mr. John Holmes, CFM
Hydrologist
Flood Control District of Maricopa County

Follows Conditional Case No.: 05-09-1046R



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	City of Peoria Maricopa County Arizona	CHANNELIZATION	FLOODWAY HYDRAULIC ANALYSIS NEW TOPOGRAPHIC DATA
	COMMUNITY NO.: 040050		
IDENTIFIER	New River Channel - Grand Avenue to Skunk Creek	APPROXIMATE LATITUDE & LONGITUDE: 33.600, -112.258 SOURCE: USGS QUADRANGLE DATUM: NAD 27	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM*	NO.: 04013C1610 J	DATE: September 30, 2005	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: September 30, 2005 PROFILE(S): 239P AND 240P FLOODWAY DATA TABLE 5
TYPE: FIRM*	NO.: 04013C1630 H	DATE: September 30, 2005	

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map; ** FBFM - Flood Boundary and Floodway Map; *** FHBM - Flood Hazard Boundary Map

FLOODING SOURCE(S) & REVISED REACH(ES)

New River - from approximately 1,150 feet upstream of Grand Avenue to approximately 5,200 feet upstream of Thunderbird Road

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
New River	Zone AE	Zone AE	NONE	YES
	BFEs	BFEs	NONE	YES
	Floodway	Floodway	NONE	YES

* BFEs - Base Flood Elevations

DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Max H. Yuan
Max H. Yuan, P.E., Project Engineer
Engineering Management Section
Mitigation Division

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102-D-A



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION

APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State or local requirements to which the regulations apply.

We provide the floodway designation to your community as a tool to regulate floodplain development. Therefore, the floodway revision we have described in this letter, while acceptable to us, must also be acceptable to your community and adopted by appropriate community action, as specified in Paragraph 60.3(d) of the NFIP regulations.

NFIP regulations Subparagraph 60.3(b)(7) requires communities to ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management ordinances; therefore, responsibility for maintenance of the altered or relocated watercourse, including any related appurtenances such as bridges, culverts, and other drainage structures, rests with your community. We may request that your community submit a description and schedule of maintenance activities necessary to ensure this requirement.

COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance flood discharges computed in the FIS for your community without considering subsequent changes in watershed characteristics that could increase flood discharges. Future development of projects upstream could cause increased flood discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on flood discharges subsequent to the publication of the FIS report for your community and could, therefore, establish greater flood hazards in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State law have been obtained. State or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Max H. Yuan, P.E., Project Engineer
Engineering Management Section
Mitigation Division



Federal Emergency Management Agency
Washington, D.C. 20472

**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Ms. Sally M. Ziolkowski
Director, Federal Insurance and Mitigation Division
Federal Emergency Management Agency, Region IX
1111 Broadway Street, Suite 1200
Oakland, CA 94607-4052
(510) 627-7175

STATUS OF THE COMMUNITY NFIP MAPS

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panel(s) and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

A handwritten signature in black ink, appearing to read "Max H. Yuan".

Max H. Yuan, P.E., Project Engineer
Engineering Management Section
Mitigation Division



Federal Emergency Management Agency
Washington, D.C. 20472

LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)

PUBLIC NOTIFICATION OF REVISION

PUBLIC NOTIFICATION

FLOODING SOURCE	LOCATION OF REFERENCED ELEVATION	BFE (FEET NGVD 29)		MAP PANEL NUMBER(S)
		EFFECTIVE	REVISED	
New River	approximately 1,150 feet upstream of Grand Avenue	1,137	1,134	04013C1610 J
	approximately 4,420 feet upstream of Thunderbird Road	1,170	1,169	04013C1630 H

Within 90 days of the second publication in the local newspaper, any interested party may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. This revision is effective as of the date of this letter. However, until the 90-day period has elapsed, the revised BFEs presented in this LOMR may be changed.

A notice of changes will be published in the *Federal Register*. This information also will be published in your local newspaper on or about the dates listed below.

LOCAL NEWSPAPER

Name: *Arizona Business Gazette*

Dates: 03/29/2007 04/05/2007

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Max H. Yuan
Max H. Yuan, P.E., Project Engineer
Engineering Management Section
Mitigation Division

CHANGES ARE MADE IN DETERMINATIONS OF BASE FLOOD ELEVATIONS FOR THE CITY OF PEORIA, ARIZONA UNDER THE NATIONAL FLOOD INSURANCE PROGRAM

On September 30, 2005, the Department of Homeland Security's Federal Emergency Management Agency identified Special Flood Hazard Areas (SFHAs) in the City of Peoria, Arizona, through issuance of a Flood Insurance Rate Map (FIRM). The Mitigation Division has determined that modification of the elevations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) for certain locations in this community is appropriate. The modified Base Flood Elevations (BFEs) revise the FIRM for the community.

The changes are being made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and are in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65.

A hydraulic analysis was performed to incorporate new topographic data and channelization for New River from approximately 1,150 feet upstream of Grand Avenue to approximately 5,200 feet upstream of Thunderbird Road and has resulted in a revised delineation of the regulatory floodway, a decrease in SFHA width, and decreased BFEs for New River. The aforementioned channelized portion of New River contains the base flood. The table below indicates existing and modified BFEs for selected locations along the affected lengths of the flooding source(s) cited above.

Location	Existing BFE (feet)*	Modified BFE (feet)*
Approximately 1,150 feet upstream of Grand Avenue	1,137	1,134
Approximately 4,700 feet upstream of Thunderbird Road	1,170	1,169

*National Geodetic Vertical Datum, rounded to nearest whole foot

Under the above-mentioned Acts of 1968 and 1973, the Mitigation Division must develop criteria for floodplain management. To participate in the National Flood Insurance Program (NFIP), the community must use the modified BFEs to administer the floodplain management measures of the NFIP. These modified BFEs will also be used to calculate the appropriate flood insurance premium rates for new buildings and their contents and for the second layer of insurance on existing buildings and contents.

Upon the second publication of notice of these changes in this newspaper, any person has 90 days in which he or she can request, through the Chief Executive Officer of the community, that the Mitigation Division reconsider the determination. Any request for reconsideration must be based on knowledge of changed conditions or new scientific or technical data. All interested parties are on notice that until the 90-day period elapses, the Mitigation Division's determination to modify the BFEs may itself be changed.

Any person having knowledge or wishing to comment on these changes should immediately notify:

The Honorable John C. Keegan
Mayor, City of Peoria
City of Peoria Municipal Complex
8401 West Monroe Street
Peoria, AZ 85345

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
						FEET (NGVD)		
New River								
A	0.29	1,204	7,061	5.5	1,031.1	1,031.1	1,031.1	0.0
B	0.43	979	5,935	6.6	1,032.9	1,032.9	1,032.9	0.0
C	0.56	1,023	6,287	6.2	1,034.3	1,034.3	1,034.3	0.0
D	0.64	920	5,599	7.0	1,035.1	1,035.1	1,035.1	0.0
E	0.72	901	5,590	7.0	1,036.1	1,036.1	1,036.1	0.0
F	0.87	896	5,431	7.2	1,038.1	1,038.1	1,038.1	0.0
G	0.90	904	5,047	7.7	1,038.6	1,038.6	1,038.6	0.0
H	1.06	878	6,304	6.5	1,040.1	1,040.1	1,040.1	0.0
I	1.12	743	4,924	8.3	1,040.5	1,040.5	1,040.5	0.0
J	1.27	469	4,106	10.0	1,043.0	1,043.0	1,043.0	0.0
K	1.40	397	4,319	9.5	1,044.9	1,044.9	1,044.9	0.0
L-CJ ²								0.0
CK	6.91	415	3,792	10.8	1,136.5	1,136.5	1,136.5	0.0
CL	7.01	495	5,091	8.1	1,138.6	1,138.6	1,138.6	0.0
CM	7.07	488	5,204	7.9	1,139.1	1,139.1	1,139.1	0.0
			Revised Data					

¹ Miles Above Confluence With Agua Fria River

²Floodway Contained Within Channel

REVISED TO
REFLECT LOMR
EFFECTIVE MAR 09 2007

TABLE 5

FEDERAL EMERGENCY MANAGEMENT AGENCY
MARICOPA COUNTY, AZ
AND INCORPORATED AREAS

FLOODWAY DATA

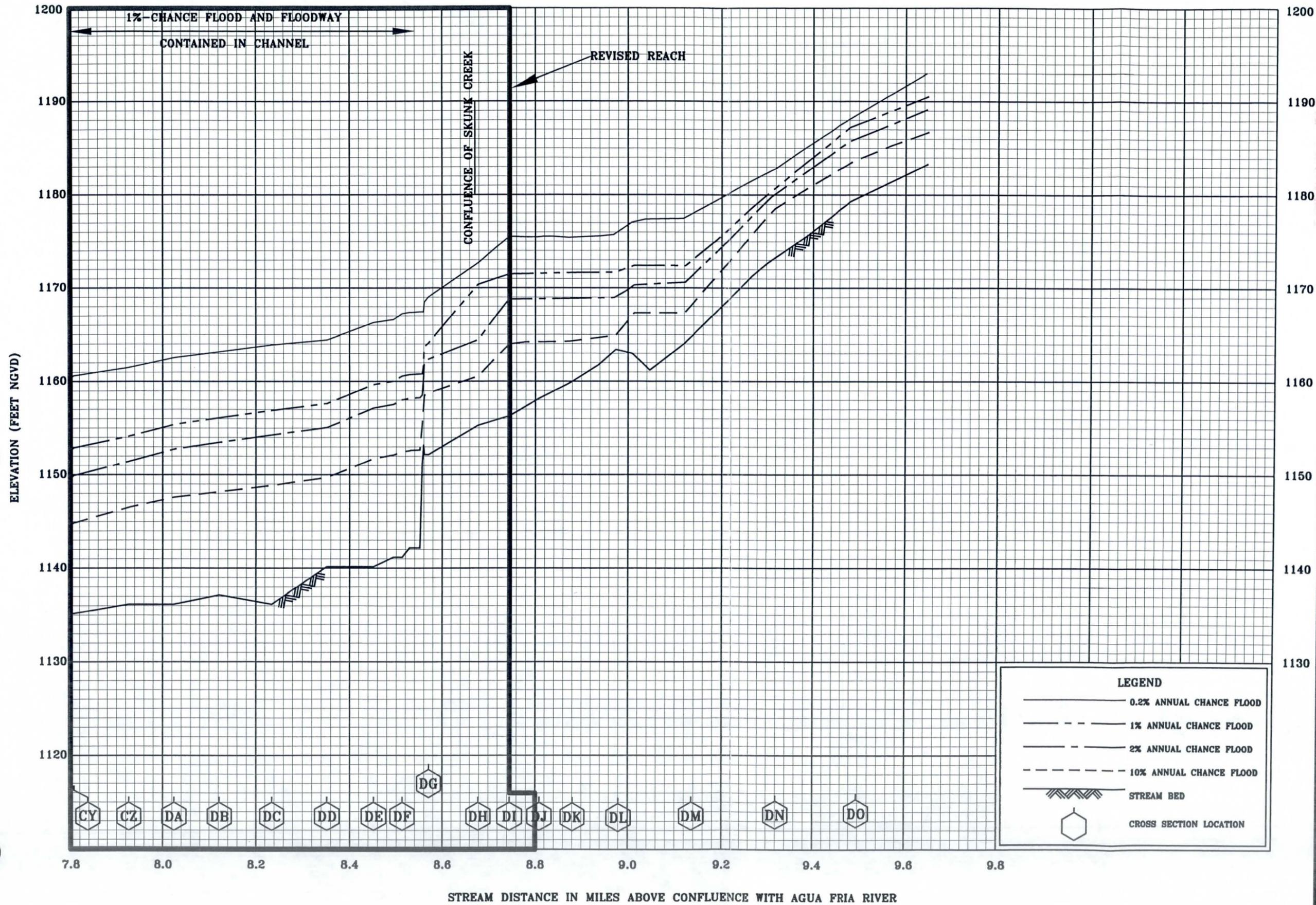
NEW RIVER

FLOODING SOURCE		FLOODWAY			WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	FEET (NGVD)		INCREASE
						WITHOUT FLOODWAY	WITH FLOODWAY	
New River (Cont'd)			Revised Data					
CN	7.13	417	4,086	10.0	1,139.3	1,139.3	1,139.3	0.0
CO	7.18	399	4,070	10.1	1,140.2	1,140.2	1,140.2	0.0
CP	7.27	392	3,963	10.3	1,141.5	1,141.5	1,141.5	0.0
CQ	7.35	397	4,315	9.5	1,142.8	1,142.8	1,142.8	0.0
CR	7.42	387	4,377	9.4	1,143.6	1,143.6	1,143.6	0.0
CS	7.48	354	3,818	10.7	1,144.1	1,144.1	1,144.1	0.0
CT	7.62	319	3,072	13.4	1,145.8	1,145.8	1,145.8	0.0
CU	7.69	346	3,659	11.2	1,148.1	1,148.1	1,148.1	0.0
CV	7.75	244	2,723	15.1	1,148.4	1,148.4	1,148.4	0.0
CW	7.76	254	3,280	12.5	1,152.8	1,152.8	1,152.8	0.0
CX	7.81	342	4,743	8.6	1,152.9	1,152.9	1,152.9	0.0
CY	7.93	312	4,447	9.2	1,154.1	1,154.1	1,154.1	0.0
CZ	8.02	313	4,941	8.3	1,155.4	1,155.4	1,155.4	0.0
DA	8.12	311	4,950	8.5	1,156.1	1,156.1	1,156.1	0.0
DB	8.23	302	4,786	8.6	1,156.9	1,156.9	1,156.9	0.0
DC	8.35	287	3,745	11.0	1,157.7	1,157.7	1,157.7	0.0
DD	8.45	304	4,661	8.8	1,159.7	1,159.7	1,159.7	0.0
DE	8.49	277	4,313	9.5	1,161.8	1,161.8	1,161.8	0.0
DF	8.51	300	4,879	8.4	1,160.6	1,160.6	1,160.6	0.0
DG	8.57	308	3,333	12.3	1,164.1	1,164.1	1,164.1	0.0
DH	8.68	401	5,315	7.7	1,170.4	1,170.4	1,170.4	0.0
DI	8.74	434	5,383	2.2	1,171.5	1,171.5	1,171.5	0.0
DJ	8.81	423	4,724	2.5	1,171.5	1,171.5	1,171.5	0.0
DK	8.88	344	2,738	4.4	1,171.5	1,171.5	1,171.5	0.0
DL	8.98	286	1,884	6.4	1,171.8	1,171.8	1,171.8	0.0

¹ Miles Above Confluence With Agua Fria River

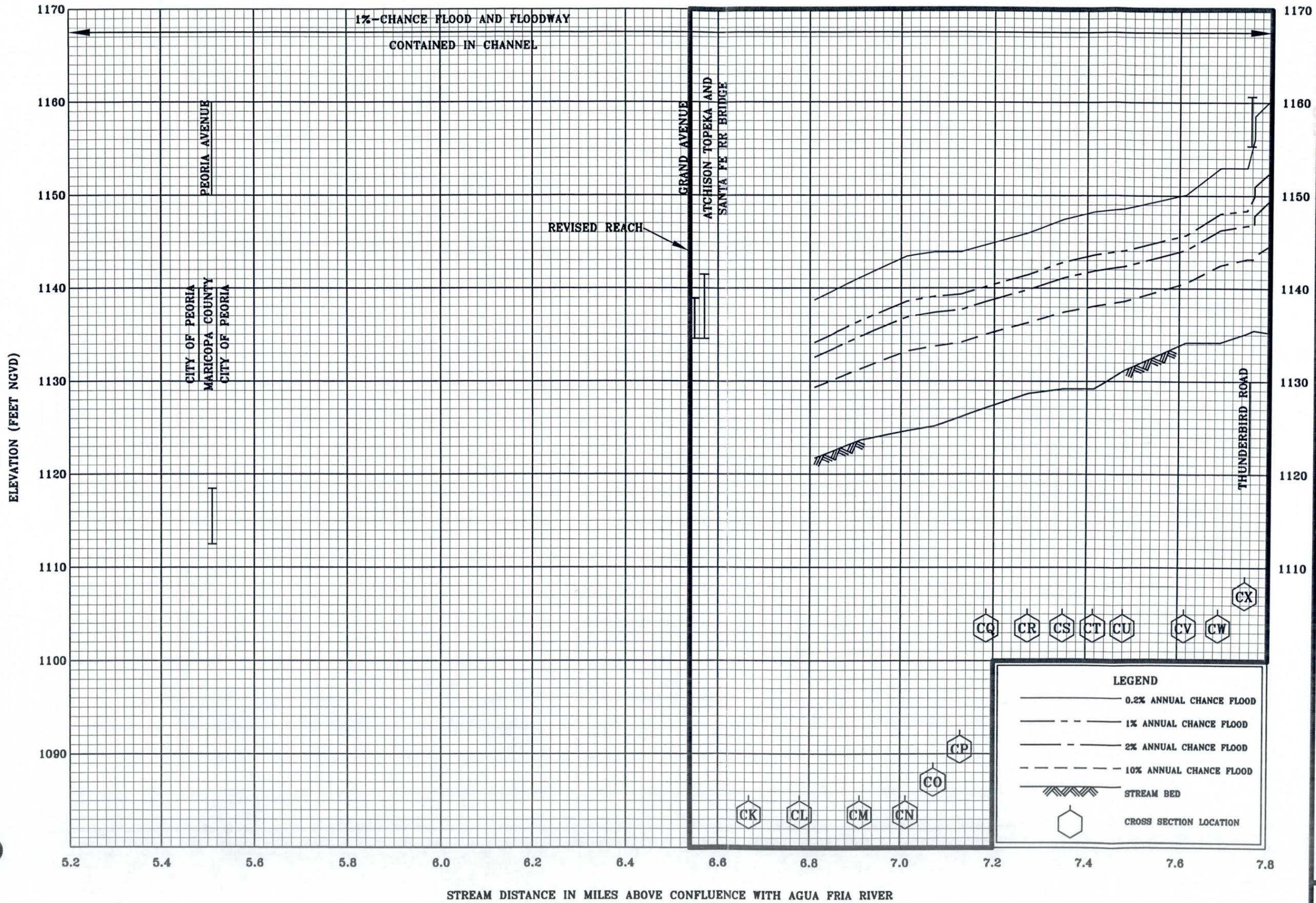
REVISED TO REFLECT LOMR EFFECTIVE MAR 09 2007

TABLE 5	FEDERAL EMERGENCY MANAGEMENT AGENCY MARICOPA COUNTY, AZ AND INCORPORATED AREAS	FLOODWAY DATA
		NEW RIVER



FLOOD PROFILES
 NEW RIVER
 MAR 09 2007

FEDERAL EMERGENCY MANAGEMENT AGENCY
 MARICOPA COUNTY, AZ
 AND INCORPORATED AREAS



FEDERAL EMERGENCY MANAGEMENT AGENCY
 MARICOPA COUNTY, AZ
 AND INCORPORATED AREAS

FLOOD PROFILES

NEW RIVER
 EFFECTIVE MAR 09 2007



Flood Control District of Maricopa County

INTEROFFICE MEMORANDUM

Date: November 21, 2006
To: Timothy S. Phillips, P.E., Chief Engineer and General Manager
From: John W. Holmes, CFM, Hydrologist
Subject: LOMR package for New River Channelization – Grand Avenue to Skunk Creek Project

The LOMR shows the post-project conditions floodplain and that the project is constructed according to the design plans. The extents of the post-project floodplain are decreased from those of the pre-project (existing) conditions. As this is a Letter of Map Revision, the as-built data represents the "best available data". The project has been constructed and a request for a LOMR is being submitted to FEMA for approval. The City Peoria has jurisdiction over floodplain management for this floodplain.

The background on the project includes the following: The design consultant was J2 Engineering and Environmental Design. The District's design manager was Scott Vogel. The reviewer for the LOMR was John Holmes. The City of Peoria was involved in the design of the project. Since there were no changes to the TDN from the CLOMR request, (FEMA Case No. 05-09-1046R, dated March 13, 2006), contract FCD2003C001, prepared by Wood Patel and Associates, Inc., that TDN will also serve as the TDN for the LOMR request. A copy of the LOMR package has been submitted to the City of Peoria for approval prior to submittal to FEMA.

Please sign below to acknowledge that you concur with this LOMR request.

<i>C. Scott Vogel</i> Project Manager Date: 11/21/06	<i>[Signature]</i> 12/1/06 Timothy S. Phillips, P.E. Chief Engineer and General Manager Date:
<i>N.A. MD.</i> Principal Flood Delineation Engineer Date:	Assistant Project Manager Date:
<i>[Signature]</i> 11/21/06 Floodplain Management Branch Manager Date:	Assistant Project Manager Date:
<i>[Signature]</i> 11/22/06 Hydrology/Hydraulics Branch Manager Date:	Assistant Project Manager Date:
<i>Edward A. Rajc</i> 11/29/06 Regulatory Division Manager Date:	Assistant Project Manager Date:
File Copies: 1. _____ 2. _____	N/A <input type="checkbox"/> GIS Posted (Pending Floodplain Only) Date: N/A <input type="checkbox"/> No County Permits in this area Date:



Flood Control District of Maricopa County

Board of Directors
Fulton Brock, District 1
Don Stapley, District 2
Andrew Kunasek, District 3
Max Wilson, District 4
Mary Rose Wilcox, District 5

www.fcd.maricopa.gov

2801 West Durango Street

Phoenix, Arizona 85009

Phone: 602-506-1501

Fax: 602-506-4601

TT: 602-505-5897

November 3, 2006

Michael Baker, Jr. Inc.
3601 Eisenhower Avenue, #600
Alexandria VA 22304-6425

ATTN: Mounir Boudjemaa

RE: New River Channelization, Grand Avenue to Skunk Creek, Peoria, Maricopa County,
Arizona, Letter of Map Revision (LOMR) request

Dear Mr. Boudjemaa:

Please find enclosed a LOMR request for the subject river from just upstream of Grand Avenue to the confluence with Skunk Creek. Since there were no changes to the TDN from the CLOMR request (FEMA Case no. 05-09-1046R, dated March 13, 2006 and Flood Control District contract no. FCD 2003 C001), it will also serve as the TDN for the LOMR request. The City Peoria has jurisdiction over floodplain management for this floodplain. The following items are included in this submittal:

- Completed FEMA Forms for LOMR request, dated November 2006
- Copy of letter from FEMA to The Honorable John Keegan, Mayor, City of Peoria, date stamped March 13, 2006 (Exhibit A)
- Property owner notification letters (Exhibit B)
- Annotated FIRM panels (Exhibit C)
- New River Channelization As-built Plans (hard copy)
- New River, digital data files (.dxf and As-built plans in .tif and .pdf, in back pocket of binder)
- Check for \$4,000.00 for review and processing fees

If you have any questions or require additional information, please call me at 602-506-3320 or email me at jwh@mail.maricopa.gov.

Yours truly,


John W. Holmes, CFM
Hydrologist

Enclosure: Listed above

2

cc: Mr. David A. Moody, P.E.
Public Works/Engineering Director
City of Peoria

Mr. Brian Cosson, CFM
NFIP Coordinator
Office of Dam Safety and Flood Mitigation
Arizona Department of Water Resources

**U.S. DEPARTMENT OF HOMELAND SECURITY - FEDERAL EMERGENCY MANAGEMENT AGENCY
OVERVIEW & CONCURRENCE FORM**

*O.M.B No. 1660-0016
Expires: August 31, 2007*

PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 1 hour per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless a valid OMB control number appears in the upper right corner of this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, U.S. Department of Homeland Security, Federal Emergency Management Agency, 500 C Street, SW, Washington DC 20472, Paperwork Reduction Project (1660-0016). Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program. **Please do not send your completed survey to the above address.**

A. REQUESTED RESPONSE FROM DHS-FEMA

This request is for a (check one):

- CLOMR: A letter from DHS-FEMA commenting on whether a proposed project, if built as proposed, would justify a map revision, or proposed hydrology changes (See 44 CFR Ch. 1, Parts 60, 65 & 72).
- LOMR: A letter from DHS-FEMA officially revising the current NFIP map to show the changes to floodplains, regulatory floodway or flood elevations. (See Parts 60 & 65 of the NFIP Regulations.)

B. OVERVIEW

1. The NFIP map panel(s) affected for all impacted communities is (are):

Community No.	Community Name	State	Map No.	Panel No.	Effective Date
Ex: 480301	City of Katy	TX	480301	0005D	02/08/83
480287	Harris County	TX	48201C	0220G	09/28/90
040050	City of Peoria	AZ	04013C	1610J	09/30/05
040050	City of Peoria	AZ	04013C	1630H	09/30/05

2. Flooding Source: New River

3. Project Name/Identifier: New River Channel – Grand Avenue to Skunk Creek

4. FEMA zone designations affected: (choices: A, AH, AO, A1-A30, A99, AE, AR, V, V1-V30, VE, B, C, D, X)

5. Basis for Request and Type of Revision:

a. The basis for this revision request is (check all that apply)

- Physical Change Improved Methodology/Data
- Regulatory Floodway Revision Other (Attach Description)

Note: A photograph and narrative description of the area of concern is not required, but is very helpful during review.

b. The area of revision encompasses the following types of flooding and structures (check all that apply)

- Types of Flooding: Riverine Coastal Shallow Flooding (e.g., Zones AO and AH)
- Alluvial fan Lakes Other (Attach Description)
- Structures: Channelization Levee/Floodwall Bridge/Culvert
- Dam Fill Other, Attach Description

C. REVIEW FEE

Has the review fee for the appropriate request category been included?	<input checked="" type="checkbox"/> Yes	Fee amount: \$4,000
	<input type="checkbox"/> No, Attach Explanation	

Please see the DHS-FEMA Web site at http://www.fema.gov/fhm/frm_fees.shtml for Fee Amounts and Exemptions.

D. SIGNATURE

All documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.

Name: John W. Holmes, CFM, Hydrologist	Company: Flood Control District of Maricopa County	
Mailing Address: 2801 W. Durango Street Phoenix, AZ 85009	Daytime Telephone No.: (602) 506-3320	Fax No.: (602) 506-4601
	E-Mail Address: jwh@mail.maricopa.gov	
Signature of Requester (required): <i>John W. Holmes</i>		Date: 11/7/06

As the community official responsible for floodplain management, I hereby acknowledge that we have received and reviewed this Letter of Map Revision (LOMR) or conditional LOMR request. Based upon the community's review, we find the completed or proposed project meets or is designed to meet all of the community floodplain management requirements, including the requirement that no fill be placed in the regulatory floodway, and that all necessary Federal, State, and local permits have been, or in the case of a conditional LOMR, will be obtained. In addition, we have determined that the land and any existing or proposed structures to be removed from the SFHA are or will be reasonably safe from flooding as defined in 44CFR 65.2(c), and that we have available upon request by FEMA, all analyses and documentation used to make this determination.

Community Official's Name and Title: David A. Moody, P.E., City Engineer		Telephone No.: (623) 773-7367
Community Name: City of Peoria	Community Official's Signature (required): <i>David A. Moody</i>	Date: 11/6/06

CERTIFICATION BY REGISTERED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR

This certification is to be signed and sealed by a licensed land surveyor, registered professional engineer, or architect authorized by law to certify elevation information. All documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.

Certifier's Name: Catherine W. Regester, P.E., CFM, Senior Engineer	License No.: 37883	Expiration Date: 09/30/08
Company Name: Flood Control District of Maricopa County	Telephone No.: (602) 506-4001	Fax No.: (602) 506-4601
Signature: <i>Catherine W. Regester</i>		Date: 11/7/06

Ensure the forms that are appropriate to your revision request are included in your submittal.

Form Name and (Number)	Required if ...
<input checked="" type="checkbox"/> Riverine Hydrology and Hydraulics Form (Form 2)	New or revised discharges or water-surface elevations
<input checked="" type="checkbox"/> Riverine Structures Form (Form 3)	Channel is modified, addition/revision of bridge/culverts, addition/revision of levee/floodwall, addition/revision of dam
<input type="checkbox"/> Coastal Analysis Form (Form 4)	New or revised coastal elevations
<input type="checkbox"/> Coastal Structures Form (Form 5)	Addition/revision of coastal structure
<input type="checkbox"/> Alluvial Fan Flooding Form (Form 6)	Flood control measures on alluvial fans

Seal (Optional)

C. REVIEW FEE

Has the review fee for the appropriate request category been included?	<input checked="" type="checkbox"/> Yes	Fee amount: \$4,000
	<input type="checkbox"/> No, Attach Explanation	
Please see the DHS-FEMA Web site at http://www.fema.gov/fhm/firm_fees.shtml for Fee Amounts and Exemptions.		

D. SIGNATURE

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Mailing Address: 2801 W. Durango Street Phoenix, AZ 85009	Daytime Telephone No.: (602) 506-3320	Fax No.: (602) 506-4601
	E-Mail Address: jwh@mail.maricopa.gov	
Signature of Requester (required): <i>John W. Holmes</i>	Date: 11/7/06	

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Community Official's Name and Title: David A. Moody, P.E., City Engineer	Telephone No.: (623) 773-7367
Community Name: City of Peoria	Community Official's Signature (required): <i>David A. Moody</i>
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Certifier's Name: Catherine W. Regester, P.E., CFM, Senior Engineer	License No.: 37883	Expiration Date: 09/30/08
Company Name: Flood Control District of Maricopa County	Telephone No.: (602) 506-4001	Fax No.: (602) 506-4601
Signature: <i>Catherine W. Regester</i>	Date: 11/7/06	

Ensure the forms that are appropriate to your revision request are included in your submittal.

<u>Form Name and (Number)</u>	<u>Required if ...</u>	
<input checked="" type="checkbox"/> Riverine Hydrology and Hydraulics Form (Form 2)	New or revised discharges or water-surface elevations	Seal (Optional)
<input checked="" type="checkbox"/> Riverine Structures Form (Form 3)	Channel is modified, addition/revision of bridge/culverts, addition/revision of levee/floodwall, addition/revision of dam	
<input type="checkbox"/> Coastal Analysis Form (Form 4)	New or revised coastal elevations	
<input type="checkbox"/> Coastal Structures Form (Form 5)	Addition/revision of coastal structure	
<input type="checkbox"/> Alluvial Fan Flooding Form (Form 6)	Flood control measures on alluvial fans	

C. REVIEW FEE

Has the review fee for the appropriate request category been included?

Yes Fee amount: \$4,000
 No, Attach Explanation

Please see the DHS-FEMA Web site at http://www.fema.gov/fhm/firm_fees.shtm for Fee Amounts and Exemptions.

D. SIGNATURE

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Mailing Address: 2801 W. Durango Street Phoenix, AZ 85009	Daytime Telephone No.: (602) 506-3320	Fax No.: (602) 506-4601	
	E-Mail Address: jwh@mail.maricopa.gov		
Signature of Requester (required):		Date:	

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Community Official's Name and Title: David A. Moody, P.E., City Engineer		Telephone No.: (623) 773-7367
Community Name: City of Peoria	Community Official's Signature (required):	Date:

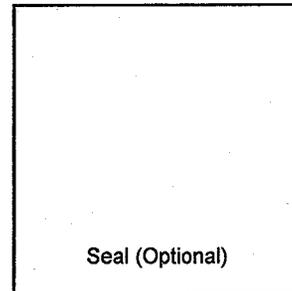
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Signature:		Date:

Ensure the forms that are appropriate to your revision request are included in your submittal.

<u>Form Name and (Number)</u>	<u>Required if ...</u>
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PAPERWORK REDUCTION ACT

Public reporting burden for this form is estimated to average 3.25 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless a valid OMB control number appears in the upper right corner of this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, U.S. Department of Homeland Security, Federal Emergency Management Agency, 500 C Street, SW, Washington DC 20472, Paperwork Reduction Project (1660-0016). Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program. **Please do not send your completed survey to the above address.**

Flooding Source:

Note: Fill out one form for each flooding source studied

A. HYDROLOGY

1. Reason for New Hydrologic Analysis (check all that apply)

- Not revised (skip to section 2)
 No existing analysis
 Improved data
 Alternative methodology
 Proposed Conditions (CLOMR)
 Changed physical condition of watershed

2. Comparison of Representative 1%-Annual-Chance Discharges

Location	Drainage Area (Sq. Mi.)	FIS (cfs)	Revised (cfs)
----------	-------------------------	-----------	---------------

3. Methodology for New Hydrologic Analysis (check all that apply)

- Statistical Analysis of Gage Records
 Precipitation/Runoff Model [TR-20, HEC-1, HEC-HMS etc.]
 Regional Regression Equations
 Other (please attach description)

Please enclose all relevant models in digital format, maps, computations (including computation of parameters) and documentation to support the new analysis. The document, "Numerical Models Accepted by FEMA for NFIP Usage" lists the models accepted by DHS-FEMA. This document can be found at: http://www.fema.gov/fhm/en_modl.shtml.

4. Review/Approval of Analysis

If your community requires a regional, state, or federal agency to review the hydrologic analysis, please attach evidence of approval/review.

5. Impacts of Sediment Transport on Hydrology

Was sediment transport considered? Yes No If yes, then fill out Section F (Sediment Transport) of Form 3. If No, then attach your explanation for why sediment transport was not considered.

B. HYDRAULICS

1. Reach to be Revised

	Description	Cross Section	Water-Surface Elevations (ft.)	
			Effective	Proposed/Revised
Downstream Limit	Grand Avenue	344.90	1128.3	1128.4
Upstream Limit	U/S of the Drop Structure	458.66	1172.2	1172.2

2. Hydraulic Method Used

Hydraulic Analysis HEC-2 & HEC-RAS [HEC-2, HEC-RAS, Other (Attach description)]

B. HYDRAULICS (CONTINUED)

3. Pre-Submittal Review of Hydraulic Models

DHS-FEMA has developed two review programs, CHECK-2 and CHECK-RAS, to aid in the review of HEC-2 and HEC-RAS hydraulic models, respectively. These review programs verify that the hydraulic estimates and assumptions in the model data are in accordance with NFIP requirements, and that the data are comparable with the assumptions and limitations of HEC-2/HEC-RAS. CHECK-2 and CHECK-RAS identify areas of potential error or concern. These tools do not replace engineering judgment. CHECK-2 and CHECK-RAS can be downloaded from http://www.fema.gov/fhm/frm_soft.shtm. We recommend that you review your HEC-2 and HEC-RAS models with CHECK-2 and CHECK-RAS. If you disagree with a message, please attach an explanation of why the message is not valid in this case. Review of your submittal and resolution of valid modeling discrepancies will result in reduced review time.

HEC-2/HEC-RAS models reviewed with CHECK-2/CHECK-RAS? Yes No

4. Models Submitted <input checked="" type="checkbox"/> Diskette Submitted	<u>Natural Run</u>	<u>Floodway Run</u>	<u>Datum</u>
Duplicate Effective Model*	File Name: FIS_HEC2.*	Plan Name:	File Name: Plan Name: NGVD29
Corrected Effective Model*	File Name:	Plan Name:	File Name: Plan Name:
Existing or Pre-Project Conditions Model	File Name: CORRECTED*	Plan Name:	File Name: Plan Name: NAVD88
Revised or Post-Project Conditions Model	File Name: DESIGN.*	Plan Name:	File Name: Plan Name: NAVD88
Other - (attach description)	File Name:	Plan Name:	File Name: Plan Name:

*Not required for revisions to approximate 1%-annual-chance floodplains (Zone A) – for details, refer to the corresponding section of the instructions.

The document "Numerical Models Accepted by FEMA for NFIP Usage" lists the models accepted by DHS-FEMA. This document can be found at: http://www.fema.gov/fhm/en_modl.shtm.

C. MAPPING REQUIREMENTS

A certified topographic map must be submitted showing the following information (where applicable): the boundaries of the effective, existing, and proposed conditions 1%-annual-chance floodplain (for approximate Zone A revisions) or the boundaries of the 1%- and 0.2%-annual-chance floodplains and regulatory floodway (for detailed Zone AE, AO, and AH revisions); location and alignment of all cross sections with stationing control indicated; stream, road, and other alignments (e.g., dams, levees, etc.); current community easements and boundaries; boundaries of the requester's property; certification of a registered professional engineer registered in the subject State; location and description of reference marks; and the referenced vertical datum (NGVD, NAVD, etc.).

Note that the boundaries of the existing or proposed conditions floodplains and regulatory floodway to be shown on the revised FIRM and/or FBFM must tie-in with the effective floodplain and regulatory floodway boundaries. Please attach a copy of the effective FIRM and/or FBFM, annotated to show the boundaries of the revised 1%- and 0.2%-annual-chance floodplains and regulatory floodway that tie-in with the boundaries of the effective 1%- and 0.2%-annual-chance floodplain and regulatory floodway at the upstream and downstream limits of the area of revision.

Annotated FIRM and/or FBFM Included Digital Mapping (GIS/CADD) Data Submitted (Recommended)

D. COMMON REGULATORY REQUIREMENTS*

1. For CLOMR requests, do Base Flood Elevations (BFEs) increase? Yes No

For CLOMR requests, if either of the following is true, please submit evidence of compliance with Section 65.12 of the NFIP regulations:

- The proposed project encroaches upon a regulatory floodway and would result in increases above 0.00 foot.
- The proposed project encroaches upon a SFHA with or without BFEs established and would result in increases above 1.00 foot.

2. Does the request involve the placement or proposed placement of fill? Yes No

If Yes, the community must be able to certify that the area to be removed from the special flood hazard area, to include any structures or proposed structures, meets all of the standards of the local floodplain ordinances, and is reasonably safe from flooding in accordance with the NFIP regulations set forth at 44 CFR 60.3(a)(3), 65.5(a)(4), and 65.6(a)(14). Please see the MT-2 instructions for more information.

3. For LOMR/CLOMR requests, is the regulatory floodway being revised? Yes No

If Yes, attach evidence of regulatory floodway revision notification. As per Paragraph 65.7(b)(1) of the NFIP Regulations, notification is required for requests involving revisions to the regulatory floodway. (Not required for revisions to approximate 1%-annual-chance floodplains [studied Zone A designation] unless a regulatory floodway is being added. Elements and examples of regulatory floodway revision notification can be found in the MT-2 Form 2 Instructions.)

4. For LOMR/CLOMR requests, does this request have the potential to impact an endangered species? Yes No

If Yes, please submit documentation from the community to show that they have complied with Sections 9 and 10 of the Endangered Species Act (ESA). Section 9 of the ESA prohibits anyone from "taking" or harming an endangered species. If an action might harm an endangered species, a permit is required from U.S. Fish and Wildlife Service or National Marine Fisheries Service under Section 10 of the ESA.

For actions authorized, funded, or being carried out by Federal or State agencies, please submit documentation from the agency showing its compliance with Section 7(a)(2) of the ESA.

5. For LOMR requests, does this request require property owner notification and acceptance of BFE increases? Yes No

If Yes, please attach proof of property owner notification and acceptance (if available). Elements of and examples of property owner notification can be found in the MT-2 Form 2 Instructions.

* Not inclusive of all applicable regulatory requirements. For details, see 44 CFR parts 60 and 65.

PAPERWORK REDUCTION ACT

Public reporting burden for this form is estimated to average 7 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless a valid OMB control number appears in the upper right corner of this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, U.S. Department of Homeland Security, Federal Emergency Management Agency, 500 C Street, SW, Washington DC 20472, Paperwork Reduction Project (1660-0016). Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program. **Please do not send your completed survey to the above address.**

Flooding Source: New River
Note: Fill out one form for each flooding source studied

A. GENERAL

Complete the appropriate section(s) for each Structure listed below:

- Channelization..... complete Section B
- Bridge/Culvert..... complete Section C
- Dam..... complete Section D
- Levee/Floodwall..... complete Section E
- Sediment Transport complete Section F (if required)

Description Of Structure

1. **Name of Structure: New River Channel**

Type (check one): Channelization Bridge/Culvert Levee/Floodwall Dam

Location of Structure: Entire project reach

Downstream Limit/Cross Section: 347.4

Upstream Limit/Cross Section: 452.65

2. **Name of Structure: Thunderbird Road Bridge**

Type (check one): Channelization Bridge/Culvert Levee/Floodwall Dam

Location of Structure: Thunderbird Road

Downstream Limit/Cross Section: 409.5

Upstream Limit/Cross Section: 410.54

3. **Name of Structure:**

Type (check one) Channelization Bridge/Culvert Levee/Floodwall Dam

Location of Structure:

Downstream Limit/Cross Section:

Upstream Limit/Cross Section:

B. CHANNELIZATION

Flooding Source: New River

Name of Structure: New River Channel

1. Accessory Structures

The channelization includes (check one):

- | | |
|--|---|
| <input type="checkbox"/> Levees [Attach Section E (Levee/Floodwall)] | <input type="checkbox"/> Drop structures |
| <input type="checkbox"/> Superelevated sections | <input checked="" type="checkbox"/> Transitions in cross sectional geometry |
| <input type="checkbox"/> Debris basin/detention basin | <input type="checkbox"/> Energy dissipator |
| <input type="checkbox"/> Other (Describe): | |

2. Drawing Checklist

Attach the plans of the channelization certified by a registered professional engineer, as described in the instructions.

3. Hydraulic Considerations

The channel was designed to carry 41,000 (cfs) and/or the 100-year flood.

The design elevation in the channel is based on (check one):

- Subcritical flow Critical flow Supercritical flow Energy grade line

If there is the potential for a hydraulic jump at the following locations, check all that apply and attach an explanation of how the hydraulic jump is controlled without affecting the stability of the channel.

- Inlet to channel Outlet of channel At Drop Structures At Transitions
 Other locations (specify):

4. Sediment Transport Considerations

Was sediment transport considered? Yes No If Yes, then fill out Section F (Sediment Transport).
If No, then attach your explanation for why sediment transport was not considered.

C. BRIDGE/CULVERT

Flooding Source: New River

Name of Structure: Thunderbird Road Bridge

1. This revision reflects (check one):

- New bridge/culvert not modeled in the FIS
 Modified bridge/culvert previously modeled in the FIS
 New analysis of bridge/culvert previously modeled in the FIS

2. Hydraulic model used to analyze the structure (e.g., HEC-2 with special bridge routine, WSPRO, HY8): HEC-RAS
If different than hydraulic analysis for the flooding source, justify why the hydraulic analysis used for the flooding source could not analyze the structures. Attach justification.

3. Attach plans of the structures certified by a registered professional engineer. The plan detail and information should include the following (check the information that has been provided):

- | | |
|--|---|
| <input checked="" type="checkbox"/> Dimensions (height, width, span, radius, length) | <input checked="" type="checkbox"/> Erosion Protection |
| <input type="checkbox"/> Shape (culverts only) | <input checked="" type="checkbox"/> Low Chord Elevations – Upstream and Downstream |
| <input checked="" type="checkbox"/> Material | <input checked="" type="checkbox"/> Top of Road Elevations – Upstream and Downstream |
| <input checked="" type="checkbox"/> Beveling or Rounding | <input checked="" type="checkbox"/> Structure Invert Elevations – Upstream and Downstream |
| <input type="checkbox"/> Wing Wall Angle | <input checked="" type="checkbox"/> Stream Invert Elevations – Upstream and Downstream |
| <input checked="" type="checkbox"/> Skew Angle | <input checked="" type="checkbox"/> Cross-Section Locations |
| <input checked="" type="checkbox"/> Distances Between Cross Sections | |

4. Sediment Transport Considerations

Was sediment transport considered? Yes No If yes, then fill out Section F (Sediment Transport).
If No, then attach your explanation for why sediment transport was not considered.

D. DAM

Flooding Source:

Name of Structure:

1. This request is for (check one): Existing dam New dam Modification of existing dam
2. The dam was designed by (check one): Federal agency State agency Local government agency Private organization

Name of the agency or organization:

3. The Dam was permitted as (check one) Federal Dam State Dam Local Government Dam None

Provide the permit or identification number (ID) for the dam and the appropriate permitting agency or organization

Permit or ID number _____ Permitting Agency or Organization _____

4. Does the project involve revised hydrology? Yes No

If Yes, complete the Riverine Hydrology & Hydraulics Form (Form 2).

5. Does the submittal include debris/sediment yield analysis? Yes No

If yes, then fill out Section F (Sediment Transport).

If No, then attach your explanation for why debris/sediment analysis was not considered.

6. Does the Base Flood Elevation behind the dam or downstream of the dam change?

Yes No If Yes, complete the Riverine Hydrology & Hydraulics Form (Form 2) and complete the table below.

Stillwater Elevation Behind the Dam

FREQUENCY (% annual chance)	FIS	REVISED
10-year (10%)		
50-year (2%)		
100-year (1%)		
500-year (0.2%)		
Normal Pool Elevation		

7. Please attach a copy of the formal Operation and Maintenance Plan

E. LEVEE/FLOODWALL (CONTINUED)

2. Freeboard (continued)

Please note, occasionally exceptions are made to the minimum freeboard requirement. If an exception is requested, attach documentation addressing Paragraph 65.10(b)(1)(ii) of the NFIP Regulations.

If No is answered to any of the above, please attach an explanation.

- b. Is there an indication from historical records that ice-jamming can affect the BFE? Yes No

If Yes, provide ice-jam analysis profile and evidence that the minimum freeboard discussed above still exists.

3. Closures

- a. Openings through the levee system (check one): exists does not exist

If opening exists, list all closures:

Channel Station	Left or Right Bank	Opening Type	Highest Elevation for Opening Invert	Type of Closure Device

(Extend table on an added sheet as needed and reference)

Note: Geotechnical and geologic data

In addition to the required detailed analysis reports, data obtained during field and laboratory investigations and used in the design analysis for the following system features should be submitted in a tabulated summary form. (Reference U.S. Army Corps of Engineers [USACE] EM-1110-2-1906 Form 2086.)

4. Embankment Protection

- a. The maximum levee slope landside is:
- b. The maximum levee slope floodside is:
- c. The range of velocities along the levee during the base flood is: (min.) to (max.)
- d. Embankment material is protected by (describe what kind):
- e. Riprap Design Parameters (check one): Velocity Tractive stress
Attach references

Reach	Sideslope	Flow Depth	Velocity	Curve or Straight	Stone Riprap			Depth of Toedown
					D ₁₀₀	D ₅₀	Thickness	
Sta to								
Sta to								
Sta to								
Sta to								
Sta to								
Sta to								

(Extend table on an added sheet as needed and reference each entry)

E. LEVEE/FLOODWALL (CONTINUED)

4. Embankment Protection (continued)

- f. Is a bedding/filter analysis and design attached? Yes No
- g. Describe the analysis used for other kinds of protection used (include copies of the design analysis):

Attach engineering analysis to support construction plans.

5. Embankment And Foundation Stability

- a. Identify locations and describe the basis for selection of critical location for analysis:

- Overall height: Sta. ; height ft.
- Limiting foundation soil strength:
- Sta. , depth to
- strength ϕ = degrees, c = psf
- slope: SS = (h) to (v)

(Repeat as needed on an added sheet for additional locations)

- b. Specify the embankment stability analysis methodology used (e.g., circular arc, sliding block, infinite slope, etc.):

- c. Summary of stability analysis results:

Case	Loading Conditions	Critical Safety Factor	Criteria (Min.)
I	End of construction		1.3
II	Sudden drawdown		1.0
III	Critical flood stage		1.4
IV	Steady seepage at flood stage		1.4
VI	Earthquake (Case I)		1.0

(Reference: USACE EM-1110-2-1913 Table 6-1)

- d. Was a seepage analysis for the embankment performed? Yes No
- If Yes, describe methodology used:
- e. Was a seepage analysis for the foundation performed? Yes No
- f. Were uplift pressures at the embankment landside toe checked? Yes No
- g. Were seepage exit gradients checked for piping potential? Yes No
- h. The duration of the base flood hydrograph against the embankment is hours.

Attach engineering analysis to support construction plans.

E. LEVEE/FLOODWALL (CONTINUED)

6. Floodwall And Foundation Stability

a. Describe analysis submittal based on Code (check one):

UBC (1988) or Other (specify):

b. Stability analysis submitted provides for:

Overturning Sliding If not, explain:

c. Loading included in the analyses were:

Lateral earth @ $P_A =$ psf, $P_p =$ psf

Surcharge-Slope @ , surface psf

Wind @ $P_w =$ psf

Seepage (Uplift); Earthquake @ $P_{eq} =$ %g

1%-annual-chance significant wave height: ft.

1%-annual-chance significant wave period: sec.

d. Summary of Stability Analysis Results: Factors of Safety.

Itemize for each range in site layout dimension and loading condition limitation for each respective reach.

Loading Condition	Criteria (Min)		Sta	To	Sta	To
	Overturn	Sliding	Overturn	Sliding	Overturn	Sliding
Dead & Wind	1.5	1.5				
Dead & Soil	1.5	1.5				
Dead, Soil, Flood, & Impact	1.5	1.5				
Dead, Soil, & Seismic	1.3	1.3				

(Ref: FEMA 114 Sept 1986; USACE EM 1110-2-2502)

(Note: Extend table on an added sheet as needed and reference)

e. Foundation bearing strength for each soil type:

Bearing Pressure	Sustained Load (psf)	Short Term Load (psf)
Computed design maximum		
Maximum allowable		

f. Foundation scour protection is, is not provided. If provided, attach explanation and supporting documentation:

Attach engineering analysis to support construction plans.

E. LEVEE/FLOODWALL (CONTINUED)

7. Settlement

- a. Has anticipated potential settlement been determined and incorporated into the specified construction elevations to maintain the established freeboard margin? Yes No
- b. The computed range of settlement is ft. to ft.
- c. Settlement of the levee crest is determined to be primarily from :
 - Foundation consolidation
 - Embankment compression
 - Other (Describe):
- d. Differential settlement of floodwalls has has not been accommodated in the structural design and construction.
Attach engineering analysis to support construction plans.

8. Interior Drainage

- a. Specify size of each interior watershed:
Draining to pressure conduit: acres
Draining to ponding area: acres
- b. Relationships Established
 - Ponding elevation vs. storage Yes No
 - Ponding elevation vs. gravity flow Yes No
 - Differential head vs. gravity flow Yes No
- c. The river flow duration curve is enclosed: Yes No
- d. Specify the discharge capacity of the head pressure conduit: cfs
- e. Which flooding conditions were analyzed?
 - Gravity flow (Interior Watershed) Yes No
 - Common storm (River Watershed) Yes No
 - Historical ponding probability Yes No
 - Coastal wave overtopping Yes No

If No for any of the above, attach explanation.
- f. Interior drainage has been analyzed based on joint probability of interior and exterior flooding and the capacities of pumping and outlet facilities to provide the established level of flood protection. Yes No

If No, attach explanation.
- g. The rate of seepage through the levee system for the base flood is cfs
- h. The length of levee system used to drive this seepage rate in item g: ft.

E. LEVEE/FLOODWALL (CONTINUED)

8. Interior Drainage (continued)

i. Will pumping plants be used for interior drainage? Yes No

If Yes, include the number of pumping plants:
For each pumping plant, list:

	Plant #1	Plant #2
The number of pumps		
The ponding storage capacity		
The maximum pumping rate		
The maximum pumping head		
The pumping starting elevation		
The pumping stopping elevation		
Is the discharge facility protected?		
Is there a flood warning plan?		
How much time is available between warning and flooding?		

Will the operation be automatic? Yes No

If the pumps are electric, are there backup power sources? Yes No

(Reference: USACE EM-1110-2-3101, 3102, 3103, 3104, and 3105)

Include a copy of supporting documentation of data and analysis. Provide a map showing the flooded area and maximum ponding elevations for all interior watersheds that result in flooding.

9. Other Design Criteria

a. The following items have been addressed as stated:

- Liquefaction is is not a problem
- Hydrocompaction is is not a problem
- Heave differential movement due to soils of high shrink/swell is is not a problem

b. For each of these problems, state the basic facts and corrective action taken:

Attach supporting documentation

c. If the levee/floodwall is new or enlarged, will the structure adversely impact flood levels and/or flow velocities floodside of the structure?
 Yes No

Attach supporting documentation

d. Sediment Transport Considerations:

Was sediment transport considered? Yes No If Yes, then fill out Section F (Sediment Transport).
If No, then attach your explanation for why sediment transport was not considered.

E. LEVEE/FLOODWALL (CONTINUED)

10. Operational Plan And Criteria

- a. Are the planned/installed works in full compliance with Part 65.10 of the NFIP Regulations? Yes No
- b. Does the operation plan incorporate all the provisions for closure devices as required in Paragraph 65.10(c)(1) of the NFIP regulations?
 Yes No
- c. Does the operation plan incorporate all the provisions for interior drainage as required in Paragraph 65.10(c)(2) of the NFIP regulations?
 Yes No

If the answer is No to any of the above, please attach supporting documentation.

11. Maintenance Plan

- a. Are the planned/installed works in full compliance with Part 65.10 of the NFIP Regulations? Yes No
If No, please attach supporting documentation.

12. Operations and Maintenance Plan

Please attach a copy of the formal Operations and Maintenance Plan for the levee/floodwall.

F. SEDIMENT TRANSPORT

Flooding Source:

Name of Structure:

If there is any indication from historical records that sediment transport (including scour and deposition) can affect the Base Flood Elevation (BFE); and/or based on the stream morphology, vegetative cover, development of the watershed and bank conditions, there is a potential for debris and sediment transport (including scour and deposition) to affect the BFEs, then provide the following information along with the supporting documentation:

Sediment load associated with the base flood discharge: Volume acre-feet

Debris load associated with the base flood discharge: Volume acre-feet

Sediment transport rate (percent concentration by volume)

Method used to estimate sediment transport:

Most sediment transport formulas are intended for a range of hydraulic conditions and sediment sizes; attach a detailed explanation for using the selected method.

Method used to estimate scour and/or deposition:

Method used to revise hydraulic or hydrologic analysis (model) to account for sediment transport:
Please note that bulked flows are used to evaluate the performance of a structure during the base flood; however, FEMA does not map BFEs based on bulked flows.

If a sediment analysis has not been performed, an explanation as to why sediment transport (including scour and deposition) will not affect the BFEs or structures must be provided.

EXHIBIT A

Copy of Letter from FEMA to City of Peoria

Dated March 13, 2006



Feb 4
Cl... 1000

Federal Emergency Management Agency

Washington, D.C. 20472

MAR 13 2006

RECEIVED

MAR 16 2006

WOOD/PATEL

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:
Case No.: 05-09-1046R

The Honorable John Keegan
Mayor, City of Peoria
City of Peoria Municipal Complex
8401 West Monroe Street
Peoria, AZ 85345

Community: City of Peoria, AZ
Community No.: 040050

104

Dear Mayor Keegan:

This responds to a request that the Department of Homeland Security's Federal Emergency Management Agency (FEMA) comment on the effects that a proposed project would have on the effective Flood Insurance Rate Map (FIRM) and Flood Insurance Study (FIS) report for Maricopa County, Arizona and Incorporated Areas (the effective FIRM and FIS report for your community), in accordance with Part 65 of the National Flood Insurance Program (NFIP) regulations. In a letter dated January 20, 2006, Ms. Catherine W. Regester, P.E., CFM, Flood Control District of Maricopa County, requested that FEMA evaluate the effects along the New River that a new detailed hydraulic analysis, updated topographic information, and a proposed project from just upstream of Grand Avenue to the confluence of Skunk Creek would have on the flood hazard information shown on the effective FIRM and FIS report. The proposed project will consist of channel improvements and placement of fill from just upstream of Grand Avenue to the confluence of Skunk Creek.

All data required to complete our review of this request for a Conditional Letter of Map Revision (CLOMR) were submitted with letters from Ms. Regester.

We reviewed the submitted data and the data used to prepare the effective FIRM for your community and determined that the proposed project meets the minimum floodplain management criteria of the NFIP. The submitted existing conditions HEC-RAS hydraulic computer model, dated August 19, 2005, based on updated topographic information, was used as the base conditions model in our review of the proposed conditions model for this CLOMR request. We believe that, if the proposed project is constructed as shown on the certified topographic work map entitled "New River - Grand Avenue to Skunk Creek Project Number FCD2003C001," prepared by the Flood Control District of Maricopa County, dated January 2006, and the data listed below are received, a revision to the FIRM and FIS report would be warranted.

Our review of existing conditions revealed that the elevations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) decreased compared to the effective Base Flood Elevations (BFEs) for the reach of the New River from Grand Avenue to the confluence of Skunk Creek. The maximum decrease in BFE, 6.0 feet, occurred approximately 500 feet downstream of the confluence of Skunk Creek.

As a result of the proposed project, the BFEs will increase in some areas and decrease in other areas compared to the existing conditions BFEs for the New River from Grand Avenue to the confluence of Skunk Creek. The maximum increase in BFE, 2.0 feet, will occur approximately 200 feet upstream of Thunderbird Road. The maximum decrease in BFE, 3.0 feet, will occur approximately 2,400 feet downstream of Thunderbird Road.

As a result of the updated topographic information and proposed project, the BFEs will decrease compared to the effective BFEs for the reach of the New River from Grand Avenue to the confluence of Skunk Creek. The maximum decrease in BFE, 4.0 feet, will occur approximately 1,500 feet downstream of Thunderbird Road.

As a result of the updated topographic information and proposed project, the width of the Special Flood Hazard Area (SFHA), the area that would be inundated by the base flood, will decrease compared to the effective SFHA width along the reach of the New River from Grand Avenue to the confluence of Skunk Creek. The maximum decrease in SFHA width, approximately 800 feet, will occur approximately 2,500 feet upstream of Grand Avenue.

As a result of the updated topographic information and proposed project, the width of the regulatory floodway will decrease compared to the effective floodway width along the New River from approximately 1,000 feet upstream to approximately 3,000 feet upstream of Grand Avenue. The maximum decrease in floodway width, approximately 500 feet, will occur approximately 1,500 feet upstream of Grand Avenue. The entire base flood and regulatory floodway will be contained within the bridge and channel for the length of the revised reach.

Upon completion of the project, your community may submit the data listed below and request that we make a final determination on revising the effective FIRM and FIS report.

- Detailed application and certification forms, which were used in processing this request, must be used for requesting final revisions to the maps. Therefore, when the map revision request for the area covered by this letter is submitted, Form 1, entitled "Overview & Concurrence Form," must be included. (A copy of this form is enclosed.)
- The detailed application and certification forms listed below may be required if as-built conditions differ from the preliminary plans. If required, please submit new forms (copies of which are enclosed) or annotated copies of the previously submitted forms showing the revised information.

Form 2, entitled "Riverine Hydrology & Hydraulics Form"

Form 3, entitled "Riverine Structures Form"

Hydraulic analyses, for as-built conditions, of the base flood and the regulatory floodway, together with a topographic work map showing the revised floodplain and floodway boundaries, must be submitted with Form 2.

- Effective October 30, 2005, FEMA revised the fee schedule for reviewing and processing requests for conditional and final modifications to published flood information and maps. In accordance with this schedule, the current fee for this map revision request is \$4,000 and must be received before we can begin processing the request. Please note, however, that the fee schedule is subject to change, and requesters are required to submit the fee in effect at the time of the submittal. Payment of this fee shall be made in the form of a check or money order, made payable in U.S. funds to the National Flood Insurance Program, or by credit card. The payment must be forwarded to the following address:

Federal Emergency Management Agency
 Fee-Charge System Administrator
 P.O. Box 22787
 Alexandria, VA 22304

- As-built plans, certified by a registered professional engineer, of all proposed project elements
- A copy of the public notice distributed by your community stating its intent to revise the regulatory floodway, or a statement by your community that it has notified all affected property owners and affected adjacent jurisdictions

After receiving appropriate documentation to show that the project has been completed, FEMA will initiate a revision to the FIRM and FIS report. Because the BFEs would change as a result of the project, a 90-day appeal period would be initiated, during which community officials and interested persons may appeal the revised BFEs based on scientific or technical data.

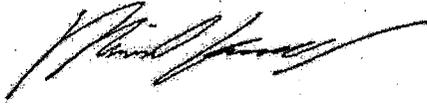
The basis of this CLOMR is, in whole or in part, a channel-modification/bridge project. NFIP regulations, as cited in Paragraph 60.3(b)(7), require that communities assure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management regulations. Consequently, the ultimate responsibility for maintenance of the modified channel and bridge rests with your community.

This CLOMR is based on minimum floodplain management criteria established under the NFIP. Your community is responsible for approving all floodplain development and for ensuring all necessary permits required by Federal or State law have been received. State, county, and community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction in the SFHA. If the State, county, or community has adopted more restrictive or comprehensive floodplain management criteria, these criteria take precedence over the minimum NFIP criteria.

If you have any questions regarding floodplain management regulations for your community or the NFIP in general, please contact the Consultation Coordination Officer (CCO) for your community. Information on the CCO for your community may be obtained by calling the Director, Federal Insurance and Mitigation

Division of FEMA in Oakland, California, at (510) 627-7175. If you have any questions regarding this CLOMR, please call our Map Assistance Center, toll free, at 1-877-FEMA MAP (1-877-336-2627).

Sincerely,



Michael B. Godesky, CFM, Project Engineer
Hazard Identification Section
Mitigation Division

For: Doug Bellomo, P.E., Chief
Hazard Identification Section
Mitigation Division

Enclosures

cc: Mr. David A. Moody, P.E.
Public Works/Engineering Director
City of Peoria

Mr. Ted Collins, CFM
Principal Floodplain Administrator
Flood Control District of Maricopa County

Mr. Tim S. Phillips, P.E.
Chief Engineer and General Manager
Flood Control District of Maricopa County

Mr. Brian Cosson, CFM
NFIP Coordinator
Office of Dam Safety and Flood Mitigation
Arizona Department of Water Resources

Mr. Jeff Ford, P.E.
Project Engineer
J2 Engineering and Environmental Design

Mr. Ashok C. Patel, P.E.
President
Wood, Patel & Associates, Inc.

EXHIBIT B

Property Owner Notification Letters



ENGINEERING DEPARTMENT

8401 W. Monroe Street, Peoria, Arizona 85345

Phone: (623) 773-7367

Fax: (623) 773-7211

October 24, 2006

Timothy S. Phillips, P.E.
Chief Engineer and General Manager
Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, AZ 85009

Re: Notification of Floodway Revision for New River Channelization,
Grand Avenue to Skunk Creek, APN Number 200-61-013H

Dear Mr. Phillips:

The Flood Insurance Rate Map (FIRM) for a community depicts the floodplain, the area which has been determined to be subject to a one percent (100-year) or greater chance of flooding in any given year. The floodway is the portion of the floodplain that includes the channel of a river, or other watercourse, and the adjacent land area that must be reserved in order to discharge the base flood without cumulatively increasing the water surface by more than a designated height.

The City of Peoria, in accordance with National Flood Insurance Program Regulation 65.7(b)(1), hereby gives notice of the City of Peoria's revision of the one-percent annual chance (100-year) floodway, generally located between Grand Avenue and Skunk Creek. Specifically, the floodway has been revised from a point just upstream of Grand Avenue to a point at approximately the confluence of Skunk Creek. As a result of the floodway revision, the floodway has been narrowed with a maximum narrowing of 240-feet at a point approximately 2300-feet north of Grand Avenue.

Maps and detailed analysis of the floodway revision can be reviewed at the City of Peoria Engineering Department. If you have any questions or concerns regarding the proposed project, or its affect on your property, you may contact Mr. Pete Marckmann at 623-773-7345.

Sincerely,


David A. Moody, P.E.
Engineering Director / Floodplain Administrator
623-773-7367



ENGINEERING DEPARTMENT

8401 W. Monroe Street, Peoria, Arizona 85345

Phone: (623) 773-7367

Fax: (623) 773-7211

October 24, 2006

Timothy S. Phillips, P.E.
Chief Engineer and General Manager
Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, AZ 85009

Re: Notification of Floodway Revision for New River Channelization,
Grand Avenue to Skunk Creek, APN Number 200-61-013J

Dear Mr. Phillips:

The Flood Insurance Rate Map (FIRM) for a community depicts the floodplain, the area which has been determined to be subject to a one percent (100-year) or greater chance of flooding in any given year. The floodway is the portion of the floodplain that includes the channel of a river, or other watercourse, and the adjacent land area that must be reserved in order to discharge the base flood without cumulatively increasing the water surface by more than a designated height.

The City of Peoria, in accordance with National Flood Insurance Program Regulation 65.7(b)(1), hereby gives notice of the City of Peoria's revision of the one-percent annual chance (100-year) floodway, generally located between Grand Avenue and Skunk Creek. Specifically, the floodway has been revised from a point just upstream of Grand Avenue to a point at approximately the confluence of Skunk Creek. As a result of the floodway revision, the floodway has been narrowed with a maximum narrowing of 240-feet at a point approximately 2300-feet north of Grand Avenue.

Maps and detailed analysis of the floodway revision can be reviewed at the City of Peoria Engineering Department. If you have any questions or concerns regarding the proposed project, or its affect on your property, you may contact Mr. Pete Marckmann at 623-773-7345.

Sincerely,

David A. Moody, P.E.
Engineering Director / Floodplain Administrator
623-773-7367



ENGINEERING DEPARTMENT

8401 W. Monroe Street, Peoria, Arizona 85345

Phone: (623) 773-7367

Fax: (623) 773-7211

October 24, 2006

Timothy S. Phillips, P.E.
Chief Engineer and General Manager
Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, AZ 85009

Re: Notification of Floodway Revision for New River Channelization,
Grand Avenue to Skunk Creek, APN Number 200-79-018F

Dear Mr. Phillips:

The Flood Insurance Rate Map (FIRM) for a community depicts the floodplain, the area which has been determined to be subject to a one percent (100-year) or greater chance of flooding in any given year. The floodway is the portion of the floodplain that includes the channel of a river, or other watercourse, and the adjacent land area that must be reserved in order to discharge the base flood without cumulatively increasing the water surface by more than a designated height.

The City of Peoria, in accordance with National Flood Insurance Program Regulation 65.7(b)(1), hereby gives notice of the City of Peoria's revision of the one-percent annual chance (100-year) floodway, generally located between Grand Avenue and Skunk Creek. Specifically, the floodway has been revised from a point just upstream of Grand Avenue to a point at approximately the confluence of Skunk Creek. As a result of the floodway revision, the floodway has been narrowed with a maximum narrowing of 240-feet at a point approximately 2300-feet north of Grand Avenue.

Maps and detailed analysis of the floodway revision can be reviewed at the City of Peoria Engineering Department. If you have any questions or concerns regarding the proposed project, or its affect on your property, you may contact Mr. Pete Marckmann at 623-773-7345.

Sincerely,

David A. Moody, P.E.
Engineering Director / Floodplain Administrator
623-773-7367



ENGINEERING DEPARTMENT

8401 W. Monroe Street, Peoria, Arizona 85345

Phone: (623) 773-7367

Fax: (623) 773-7211

October 24, 2006

Timothy S. Phillips, P.E.
Chief Engineer and General Manager
Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, AZ 85009

Re: Notification of Floodway Revision for New River Channelization,
Grand Avenue to Skunk Creek, APN Number 200-80-004N

Dear Mr. Phillips:

The Flood Insurance Rate Map (FIRM) for a community depicts the floodplain, the area which has been determined to be subject to a one percent (100-year) or greater chance of flooding in any given year. The floodway is the portion of the floodplain that includes the channel of a river, or other watercourse, and the adjacent land area that must be reserved in order to discharge the base flood without cumulatively increasing the water surface by more than a designated height.

The City of Peoria, in accordance with National Flood Insurance Program Regulation 65.7(b)(1), hereby gives notice of the City of Peoria's revision of the one-percent annual chance (100-year) floodway, generally located between Grand Avenue and Skunk Creek. Specifically, the floodway has been revised from a point just upstream of Grand Avenue to a point at approximately the confluence of Skunk Creek. As a result of the floodway revision, the floodway has been narrowed with a maximum narrowing of 240-feet at a point approximately 2300-feet north of Grand Avenue.

Maps and detailed analysis of the floodway revision can be reviewed at the City of Peoria Engineering Department. If you have any questions or concerns regarding the proposed project, or its affect on your property, you may contact Mr. Pete Marckmann at 623-773-7345.

Sincerely,

David A. Moody, P.E.
Engineering Director / Floodplain Administrator
623-773-7367



ENGINEERING DEPARTMENT

8401 W. Monroe Street, Peoria, Arizona 85345

Phone: (623) 773-7367

Fax: (623) 773-7211

October 24, 2006

Timothy S. Phillips, P.E.
Chief Engineer and General Manager
Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, AZ 85009

Re: Notification of Floodway Revision for New River Channelization,
Grand Avenue to Skunk Creek, APN Number 200-61-018D

Dear Mr. Ellis:

The Flood Insurance Rate Map (FIRM) for a community depicts the floodplain, the area which has been determined to be subject to a one percent (100-year) or greater chance of flooding in any given year. The floodway is the portion of the floodplain that includes the channel of a river, or other watercourse, and the adjacent land area that must be reserved in order to discharge the base flood without cumulatively increasing the water surface by more than a designated height.

The City of Peoria, in accordance with National Flood Insurance Program Regulation 65.7(b)(1), hereby gives notice of the City of Peoria's revision of the one-percent annual chance (100-year) floodway, generally located between Grand Avenue and Skunk Creek. Specifically, the floodway has been revised from a point just upstream of Grand Avenue to a point at approximately the confluence of Skunk Creek. As a result of the floodway revision, the floodway has been narrowed with a maximum narrowing of 240-feet at a point approximately 2300-feet north of Grand Avenue.

Maps and detailed analysis of the floodway revision can be reviewed at the City of Peoria Engineering Department. If you have any questions or concerns regarding the proposed project, or its affect on your property, you may contact Mr. Pete Marckmann at 623-773-7345.

Sincerely,

David A. Moody, P.E.
Engineering Director / Floodplain Administrator
623-773-7367

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ENGINEERING DEPARTMENT

8401 W. Monroe Street, Peoria, Arizona 85345

Phone: (623) 773-7367

Fax: (623) 773-7211

October 24, 2006

Timothy S. Phillips, P.E.
Chief Engineer and General Manager
Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, AZ 85009

Re: Notification of Floodway Revision for New River Channelization,
Grand Avenue to Skunk Creek, APN Number 200-80-005D

Dear Mr. Phillips:

The Flood Insurance Rate Map (FIRM) for a community depicts the floodplain, the area which has been determined to be subject to a one percent (100-year) or greater chance of flooding in any given year. The floodway is the portion of the floodplain that includes the channel of a river, or other watercourse, and the adjacent land area that must be reserved in order to discharge the base flood without cumulatively increasing the water surface by more than a designated height.

The City of Peoria, in accordance with National Flood Insurance Program Regulation 65.7(b)(1), hereby gives notice of the City of Peoria's revision of the one-percent annual chance (100-year) floodway, generally located between Grand Avenue and Skunk Creek. Specifically, the floodway has been revised from a point just upstream of Grand Avenue to a point at approximately the confluence of Skunk Creek. As a result of the floodway revision, the floodway has been narrowed with a maximum narrowing of 240-feet at a point approximately 2300-feet north of Grand Avenue.

Maps and detailed analysis of the floodway revision can be reviewed at the City of Peoria Engineering Department. If you have any questions or concerns regarding the proposed project, or its affect on your property, you may contact Mr. Pete Marckmann at 623-773-7345.

Sincerely,

David A. Moody, P.E.
Engineering Director / Floodplain Administrator
623-773-7367



ENGINEERING DEPARTMENT

8401 W. Monroe Street, Peoria, Arizona 85345

Phone: (623) 773-7367

Fax: (623) 773-7211

October 24, 2006

Sun Health, Inc.
P. O. Box 1835
Sun City, AZ 85372-1835

Re: Notification of Floodway Revision for New River Channelization,
Grand Avenue to Skunk Creek, APN Number 200-80-922

Dear Property Owner:

The Flood Insurance Rate Map (FIRM) for a community depicts the floodplain, the area which has been determined to be subject to a one percent (100-year) or greater chance of flooding in any given year. The floodway is the portion of the floodplain that includes the channel of a river, or other watercourse, and the adjacent land area that must be reserved in order to discharge the base flood without cumulatively increasing the water surface by more than a designated height.

The City of Peoria, in accordance with National Flood Insurance Program regulation 65.7(b)(1), hereby gives notice of the City of Peoria's revision of the one-percent annual chance (100-year) floodway, generally located between Grand Avenue and Skunk Creek. Specifically, the floodway has been revised from a point just upstream of Grand Avenue to a point at approximately the confluence of Skunk Creek. As a result of the floodway revision, the floodway has been narrowed with a maximum narrowing of 240-feet at a point approximately 2300-feet north of Grand Avenue.

Maps and detailed analysis of the floodway revision can be reviewed at the City of Peoria Engineering Department. If you have any questions or concerns regarding the proposed project, or its affect on your property, you may contact Mr. Pete Marckmann at 623-773-7345.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Moody", is written over the typed name.

David A. Moody, P.E.
Engineering Director / Floodplain Administrator
623-773-7367



ENGINEERING DEPARTMENT

8401 W. Monroe Street, Peoria, Arizona 85345

Phone: (623) 773-7367

Fax: (623) 773-7211

October 24, 2006

Sun Health, Inc.
P. O. Box 1835
Sun City, AZ 85372-1835

Re: Notification of Floodway Revision for New River Channelization,
Grand Avenue to Skunk Creek, APN Number 200-80-921

Dear Property Owner:

The Flood Insurance Rate Map (FIRM) for a community depicts the floodplain, the area which has been determined to be subject to a one percent (100-year) or greater chance of flooding in any given year. The floodway is the portion of the floodplain that includes the channel of a river, or other watercourse, and the adjacent land area that must be reserved in order to discharge the base flood without cumulatively increasing the water surface by more than a designated height.

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Sincerely,

David A. Moody, P.E.
Engineering Director / Floodplain Administrator
623-773-7367



ENGINEERING DEPARTMENT

8401 W. Monroe Street, Peoria, Arizona 85345

Phone: (623) 773-7367

Fax: (623) 773-7211

October 24, 2006

Terry Ellis, City Manager
City of Peoria
8401 W. Monroe Street
Peoria, AZ 85345

Re: Notification of Floodway Revision for New River Channelization,
Grand Avenue to Skunk Creek, APN Number 200-79-013F

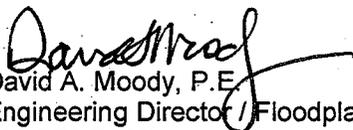
Dear Mr. Ellis:

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David A. Moody, P.E.
Engineering Director / Floodplain Administrator
623-773-7367



ENGINEERING DEPARTMENT

8401 W. Monroe Street, Peoria, Arizona 85345

Phone: (623) 773-7367

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October 24, 2006

Terry Ellis, City Manager
City of Peoria
8401 W. Monroe Street
Peoria, AZ 85345

Re: Notification of Floodway Revision for New River Channelization,
Grand Avenue to Skunk Creek, APN Number 200-61-006N

Dear Mr. Ellis:

The Flood Insurance Rate Map (FIRM) for a community depicts the floodplain, the area which has been determined to be subject to a one percent (100-year) or greater chance of flooding in any given year. The floodway is the portion of the floodplain that includes the channel of a river, or other watercourse, and the adjacent land area that must be reserved in order to discharge the base flood without cumulatively increasing the water surface by more than a designated height.

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Sincerely,

David A. Moody, P.E.
Engineering Director / Floodplain Administrator
623-773-7367



ENGINEERING DEPARTMENT

8401 W. Monroe Street, Peoria, Arizona 85345

Phone: (623) 773-7367

Fax: (623) 773-7211

October 24, 2006

Terry Ellis
City Manager
City of Peoria
8401 W. Monroe Street
Peoria, AZ 85345

Re: Notification of Floodway Revision for New River Channelization,
Grand Avenue to Skunk Creek, APN Number 200-61-001C

Dear Mr. Ellis

The Flood Insurance Rate Map (FIRM) for a community depicts the floodplain, the area which has been determined to be subject to a one percent (100-year) or greater chance of flooding in any given year. The floodway is the portion of the floodplain that includes the channel of a river, or other watercourse, and the adjacent land area that must be reserved in order to discharge the base flood without cumulatively increasing the water surface by more than a designated height.

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Sincerely,

David A. Moody, P.E.
Engineering Director / Floodplain Administrator
623-773-7367



ENGINEERING DEPARTMENT

8401 W. Monroe Street, Peoria, Arizona 85345

Phone: (623) 773-7367

Fax: (623) 773-7211

October 24, 2006

Terry Ellis
City Manager
City of Peoria
8401 W. Monroe Street
Peoria, AZ 85345

Re: Notification of Floodway Revision for New River Channelization,
Grand Avenue to Skunk Creek, APN Number 200-61-008R

Dear Mr. Ellis

The Flood Insurance Rate Map (FIRM) for a community depicts the floodplain, the area which has been determined to be subject to a one percent (100-year) or greater chance of flooding in any given year. The floodway is the portion of the floodplain that includes the channel of a river, or other watercourse, and the adjacent land area that must be reserved in order to discharge the base flood without cumulatively increasing the water surface by more than a designated height.

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David A. Moody, P.E.
Engineering Director / Floodplain Administrator
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ENGINEERING DEPARTMENT

8401 W. Monroe Street, Peoria, Arizona 85345

Phone: (623) 773-7367

Fax: (623) 773-7211

October 24, 2006

Freedom Plaza Ltd. Partnership Lease
13373 N. Plaza del Rio Boulevard
Peoria, AZ 85381

Re: Notification of Floodway Revision for New River Channelization,
Grand Avenue to Skunk Creek, APN Number 200-80-912Y

Dear Property Owner:

The Flood Insurance Rate Map (FIRM) for a community depicts the floodplain, the area which has been determined to be subject to a one percent (100-year) or greater chance of flooding in any given year. The floodway is the portion of the floodplain that includes the channel of a river, or other watercourse, and the adjacent land area that must be reserved in order to discharge the base flood without cumulatively increasing the water surface by more than a designated height.

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David A. Moody, P.E.
Engineering Director / Floodplain Administrator
623-773-7367



ENGINEERING DEPARTMENT

8401 W. Monroe Street, Peoria, Arizona 85345

Phone: (623) 773-7367

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October 24, 2006

Freedom Plaza Ltd. Partnership Lease
13373 N. Plaza del Rio Boulevard
Peoria, AZ 85381

Re: Notification of Floodway Revision for New River Channelization,
Grand Avenue to Skunk Creek, APN Number 200-80-912X

Dear Property Owner:

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David A. Moody, P.E.
Engineering Director / Floodplain Administrator
623-773-7367



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October 24, 2006

Terry Ellis, City Manager
City of Peoria
8401 W. Monroe Street
Peoria, AZ 85345

Re: Notification of Floodway Revision for New River Channelization,
Grand Avenue to Skunk Creek, APN Number 200-61-002M

Dear Mr. Ellis:

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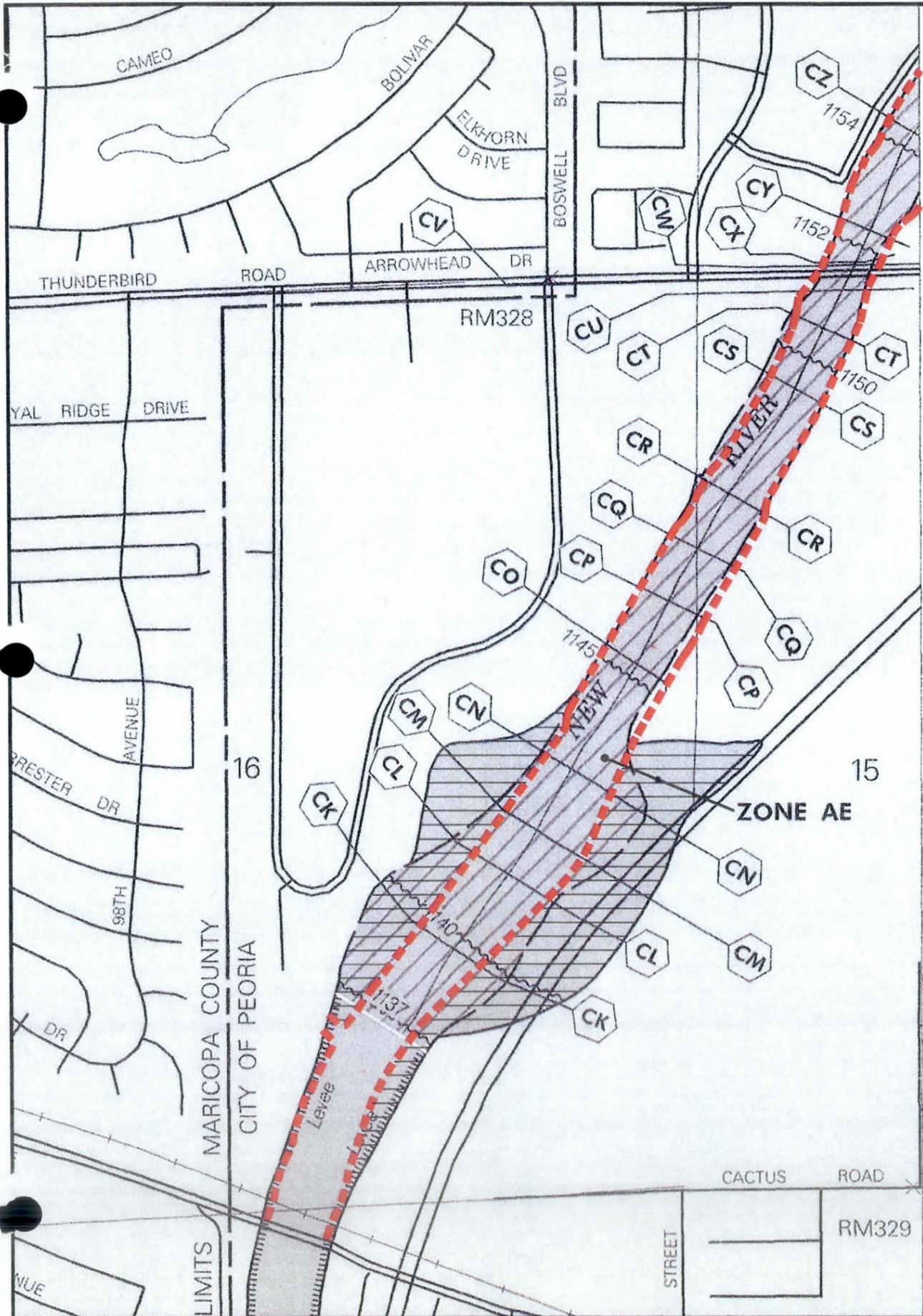
Sincerely,

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David A. Moody, P.E.
Engineering Director / Floodplain Administrator
623-773-7367

EXHIBIT C

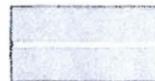
Annotated FIRM Panels



PANEL 1630



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Coastal barrier
Flood Hazard



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it does not need
local drainage
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consulted for
floodway deline
construction p

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Boundaries of
interpolated b
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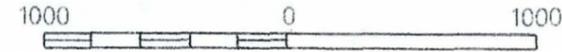
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APPROXIMATE SCALE IN FEET



NATIONAL FLOOD INSURANCE PROGRAM

**FIRM
FLOOD INSURANCE RATE MAP**

MARICOPA COUNTY,
ARIZONA AND
INCORPORATED AREAS

PANEL 1610 OF 4350

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS
COMMUNITY

EL MIRAGE CITY OF
MARICOPA COUNTY
UNINCORPORATED AREAS
PEORIA CITY OF
YOUNGLOUIS TOWN OF

NUMBER PANEL SUFFIX

04004	1610	-
040031	1610	-
040050	1610	-
040057	1610	-

MAP NUMBER
04013C1610 H

MAP REVISED:
JULY 19, 2001



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

LEGEND FOR ANNOTATION

100-YR FLOODPLAIN BOUNDARY	
100-YR FLOODWAY BOUNDARY	
AREA TO BE REMOVED FROM ZONE AE	

EXHIBIT C
ANNOTATED FIRM PANEL

