



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 Tucson Pima County Arizona	NO PROJECT	HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS NEW TOPOGRAPHIC DATA
	COMMUNITY NO.: 040076		
IDENTIFIER	Flowing Wells Wash & Runway Drive Area	APPROXIMATE LATITUDE & LONGITUDE: 32.268, -111.000 SOURCE: USGS QUADRANGLE DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM*	NO.: 04019C1669L DATE: June 16, 2011	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: September 28, 2012	
TYPE: FIRM*	NO.: 04019C1688L DATE: June 16, 2011	PROFILE(S): 95P-101P, 95P(A) AND 95P(B)	
TYPE: FIRM*	NO.: 04019C1667L DATE: June 16, 2011	SUMMARY OF STILLWATER ELEVATIONS TABLE: 11	

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map

FLOODING SOURCE(S) & REVISED REACH(ES)

See Page 2 for Additional Flooding Sources

Flowing Wells Wash - from confluence with Santa Cruz River to approximately 6,800 feet downstream of West Fort Lowell Road
Shallow Flooding - area bounded by I-10 Frontage Road to the West and North Romero Road to the East and Gardner Lane to the North

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Flowing Wells Wash	Zone AH	Zone AE	YES	YES
	Zone AE	Contained	NONE	YES
	Depth	BFEs	YES	YES
Shallow Flooding	Zone AO	Zone AO	YES	YES

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 Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Patrick "Rick" F. Sacbibit, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration



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

OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCE(S) & REVISED REACH(ES)

Shallow Flooding - area bounded by I-10 Frontage Road to the West and North Romero Road to the East and Gardner Lane to the North

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Shallow Flooding	Zone X (shaded)	Zone X (unshaded)	YES	NONE
	Zone X (unshaded)	Zone X (shaded)	YES	NONE
	Zone AO	Zone X (shaded)	YES	YES
	Zone X (shaded)	Zone A	NONE	YES
	Zone AO	Zone AH	YES	NONE
	Zone X (shaded)	Zone AO	NONE	YES
	No Depth	Depth	YES	NONE
	Depth	Depth	YES	YES

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

OTHER COMMUNITIES AFFECTED BY THIS REVISION

CID Number: 040073 **Name:** Pima County, Arizona

AFFECTED MAP PANELS

TYPE: FIRM* NO.: 04019C1667L DATE: June 16, 2011

AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT

DATE OF EFFECTIVE FLOOD INSURANCE STUDY: September 28, 2012
PROFILE(S): 95P-101P, 95P(A) AND 95P(B)
SUMMARY OF STILLWATER ELEVATIONS TABLE: 11

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 Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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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/Commonwealth or local requirements to which the regulations apply.

COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State/Commonwealth law have been obtained. State/Commonwealth 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/Commonwealth 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 Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. 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 "Rick F. Sacbibit".

Patrick "Rick" F. Sacbibit, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration



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:

Mr. Jeffrey D. Lusk
Director, 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 Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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

PUBLIC NOTIFICATION OF REVISION

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, and through FEMA's Flood Hazard Mapping website at https://www.floodmaps.fema.gov/fhm/bfe_status/bfe_main.asp

LOCAL NEWSPAPER

Name: *Arizona Daily Star*

Dates: November 17, 2017 and November 24, 2017

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. Therefore, this letter will be effective only after the 90-day appeal period has elapsed and we have resolved any appeals that we receive during this appeal period. Until this LOMR is effective, the revised flood hazard determination presented in this LOMR may be changed.

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 Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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Engineering Services Branch
Federal Insurance and Mitigation Administration

Table 11. Summary of Stillwater Elevations

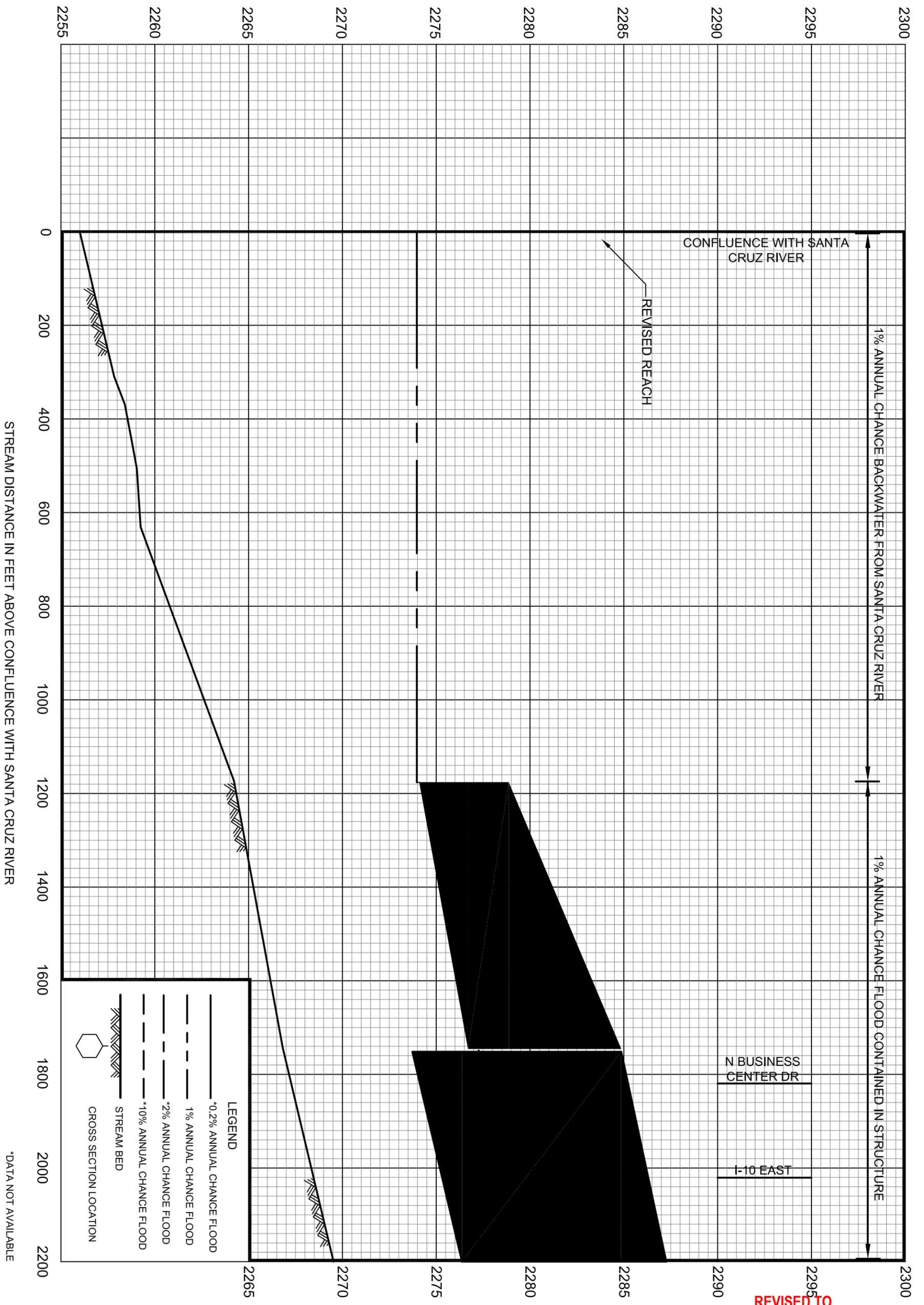
FLOODING SOURCE AND LOCATION	ELEVATIONS (Feet NAVD¹)			
	10-PERCENT ANNUAL CHANCE	2-PERCENT ANNUAL CHANCE	1-PERCENT ANNUAL CHANCE	0.2-PERCENT ANNUAL CHANCE
Shallow Flooding				
East of I-10 Frontage Road and northwest of West Prince Road	-- ²	-- ²	2,281.1	-- ²
Southwest of North Sun Tran Boulevard and West McMillan Street intersection	-- ²	-- ²	2,277.0	-- ²
South of North Sun Tran Boulevard	-- ²	-- ²	2,278.5	-- ²

**REVISED TO
REFLECT LOMR
EFFECTIVE: March 26, 2018**

--¹ North American Vertical Datum of 1988

--² Data Not Available

ELEVATION IN FEET (NAVD 88)



REVISED TO
REFLECT LOMR
EFFECTIVE: March 26, 2018

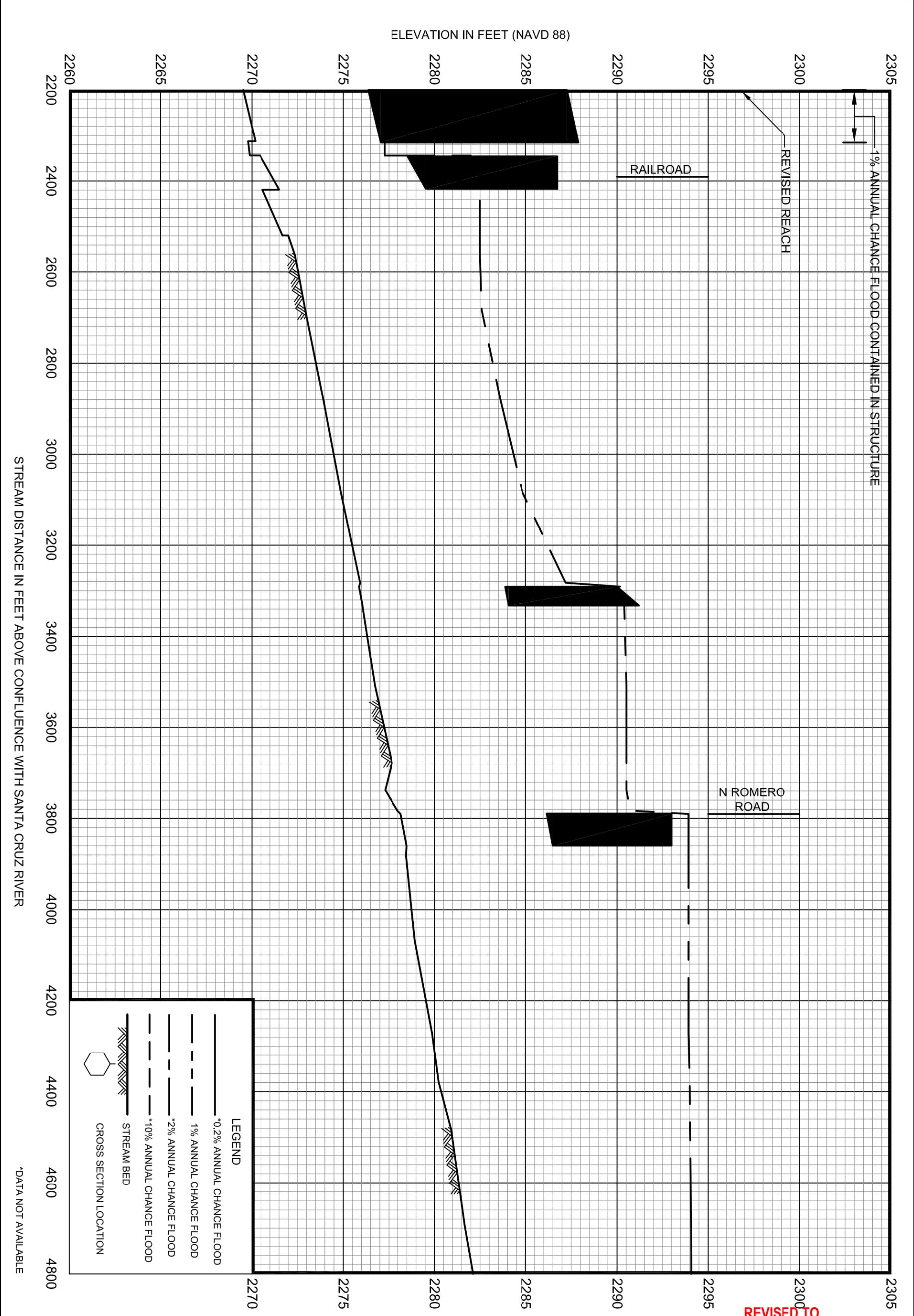
FEDERAL EMERGENCY MANAGEMENT AGENCY

PIMA COUNTY, AZ
AND INCORPORATED AREAS

95P

FLOOD PROFILES

FLOWING WELLS WASH

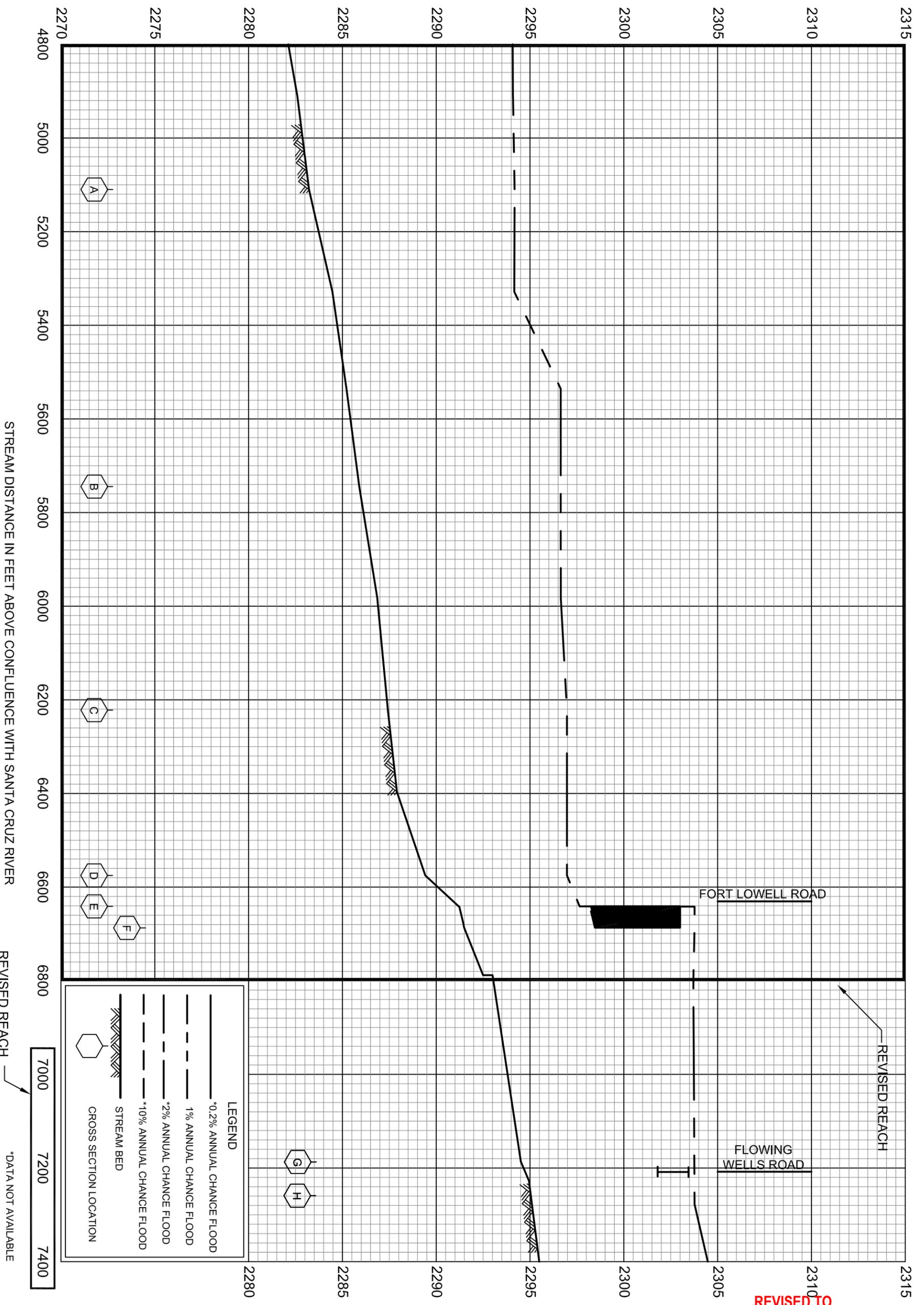


STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH SANTA CRUZ RIVER

ELEVATION IN FEET (NAVD 88)

REVISED TO
REFLECT LOMR
EFFECTIVE: March 26, 2018

ELEVATION IN FEET (NAVD 88)



REVISED TO
REFLECT LOMR
EFFECTIVE: March 26, 2018

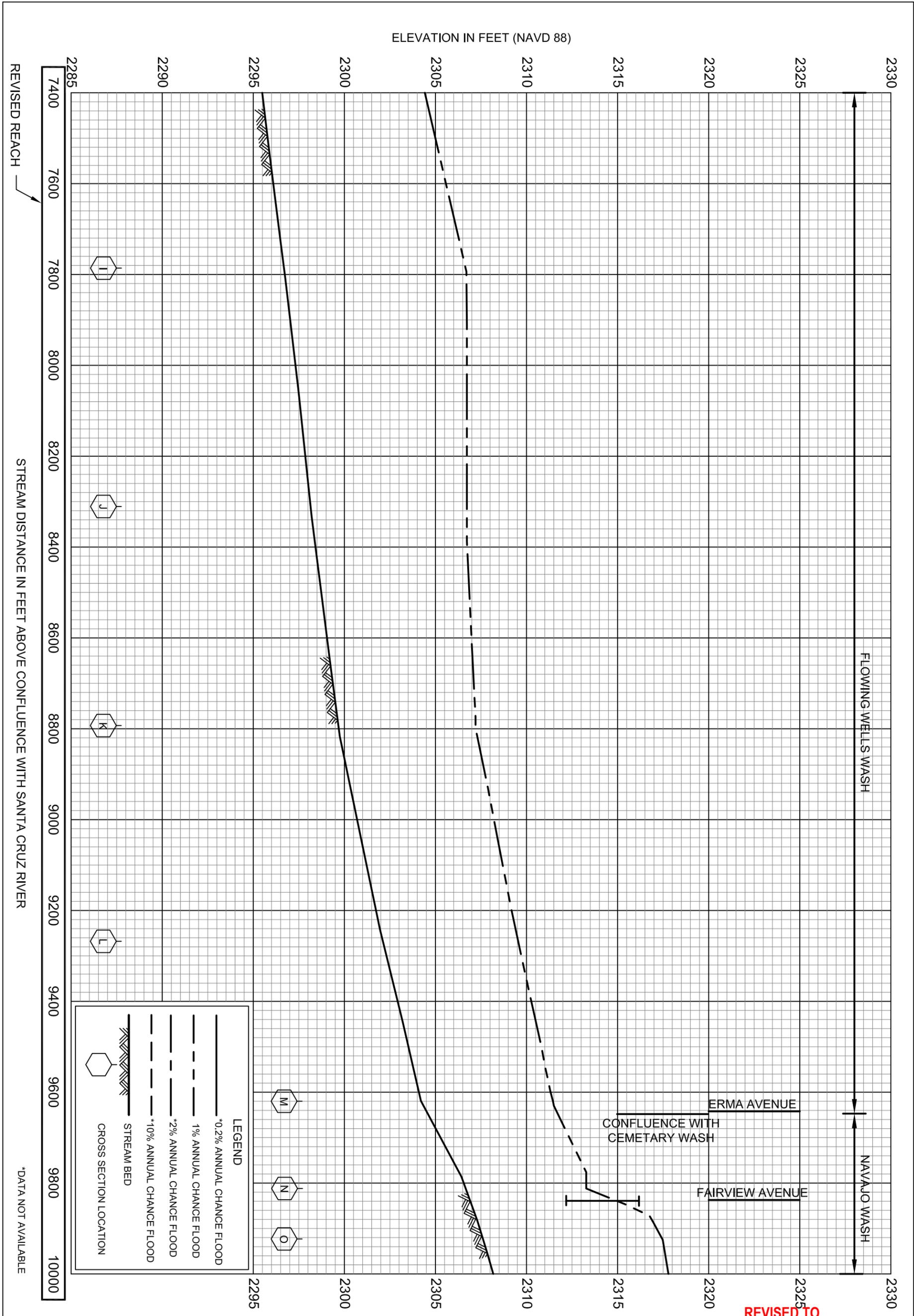
FEDERAL EMERGENCY MANAGEMENT AGENCY

PIMA COUNTY, AZ
AND INCORPORATED AREAS

FLOOD PROFILES

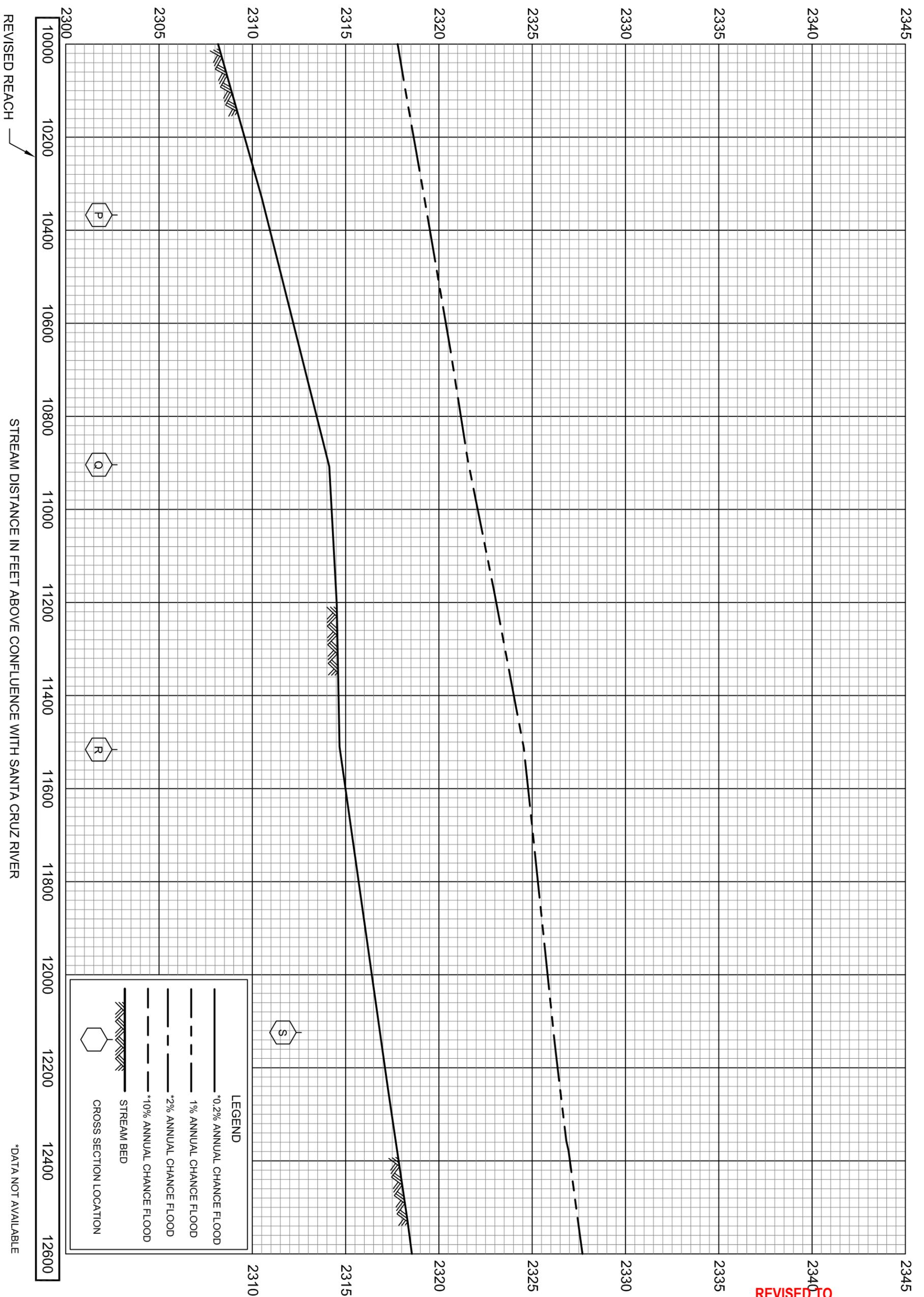
FLOWING WELLS WASH

95P(b)



REVISED TO
REFLECT LOMR
EFFECTIVE: March 26, 2018

ELEVATION IN FEET (NAVD 88)



REVISED REACH

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH SANTA CRUZ RIVER

*DATA NOT AVAILABLE

REVISED TO
REFLECT LOMR
EFFECTIVE: March 26, 2018

FEDERAL EMERGENCY MANAGEMENT AGENCY

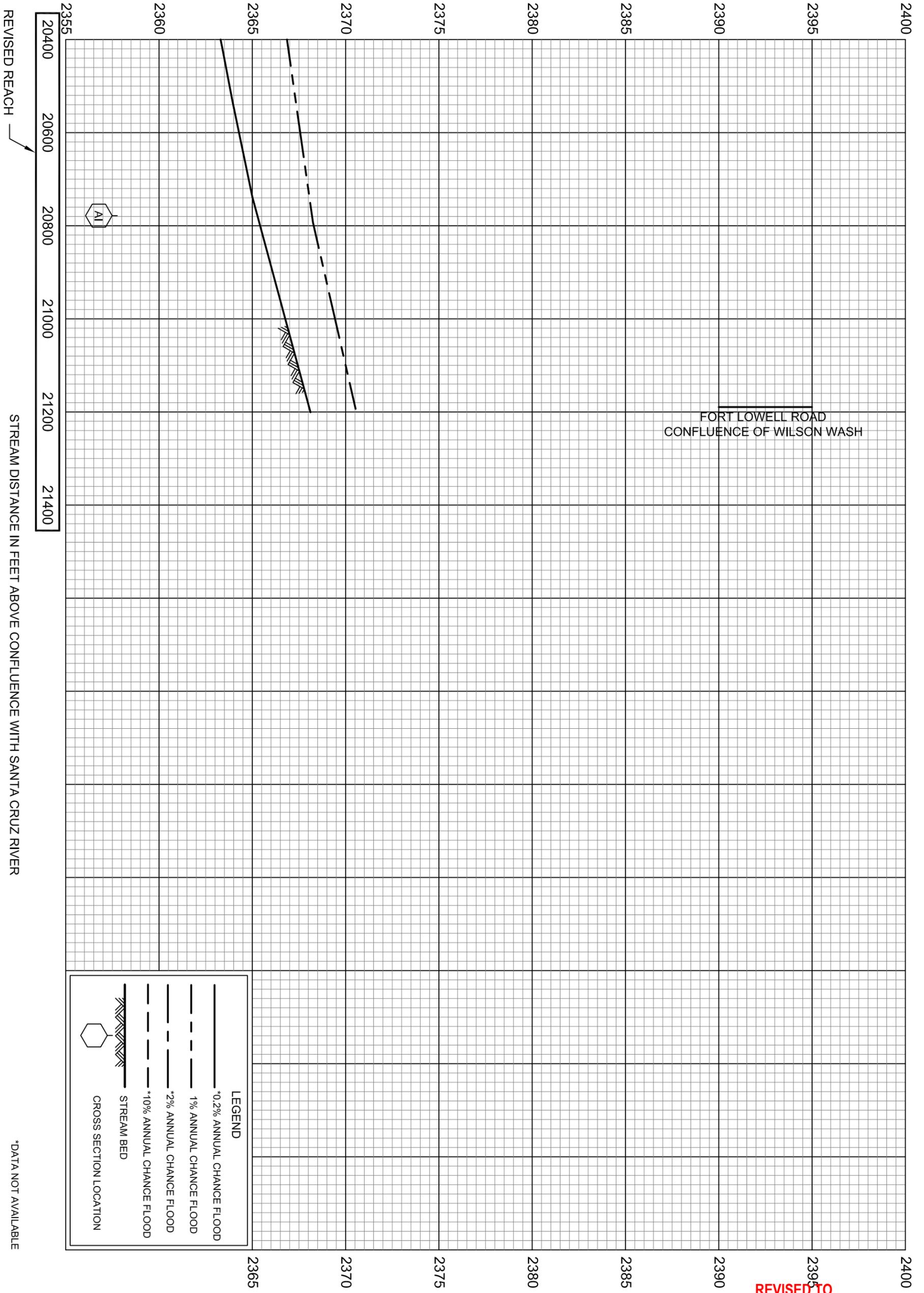
PIMA COUNTY, AZ
AND INCORPORATED AREAS

FLOOD PROFILES

NAVAJO WASH

97P

ELEVATION IN FEET (NAVD 88)



LEGEND

- *0.2% ANNUAL CHANCE FLOOD
- - - 1% ANNUAL CHANCE FLOOD
- - - *2% ANNUAL CHANCE FLOOD
- - - *10% ANNUAL CHANCE FLOOD
- ▨ STREAM BED
- ⬡ CROSS SECTION LOCATION

*DATA NOT AVAILABLE

REVISED TO REFLECT LOMR EFFECTIVE: March 26, 2018

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIMA COUNTY, AZ
AND INCORPORATED AREAS

FLOOD PROFILES

NAVAJO WASH

101P



**ZONE AO
(DEPTH 2)**

**ZONE AO
(DEPTH 1)**

JOINS PANEL 1669

499⁰⁰⁰m E

**City of Tucson
040076**

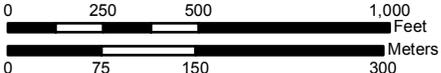
NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 13 SOUTH, RANGE 13 EAST.

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee See Notes. Zone X
OTHER AREAS		Area of Undetermined Flood Hazard Zone D

SCALE

Map Projection:
NAD 1983 HARN StatePlane Arizona Central FIPS 0202 Feet Intl;
Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet **1:6,000**



FEMA
National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

PIMA COUNTY, ARIZONA
and Incorporated Areas

PANEL **1667** OF **4750**



FEMA

Panel Contains:			
COMMUNITY	NUMBER	PANEL	SUFFIX
PIMA COUNTY	040073	1667	L
TUCSON, CITY OF	040076	1667	L

**REVISED TO
REFLECT LOMR
EFFECTIVE: March 26, 2018**

VERSION NUMBER
1.1.1.0

MAP NUMBER
04019C1667L

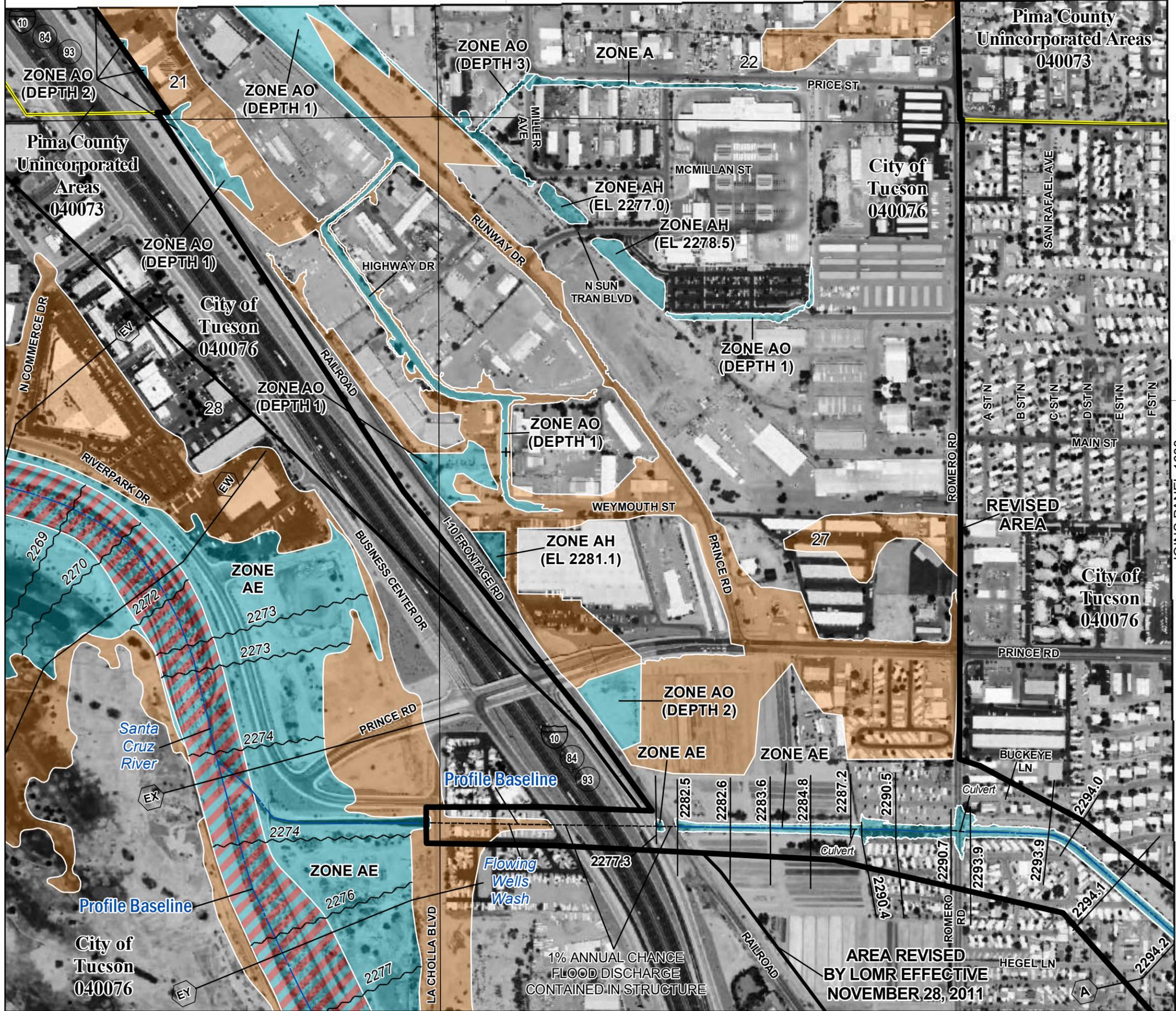
EFFECTIVE DATE
JUNE 16, 2011

980000 FT

JOINS PANEL 1667

111° 00' 00"

32° 16' 52.5"



NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 13 SOUTH, RANGE 13 EAST AND TOWNSHIP 14 SOUTH, RANGE 13 EAST.

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD OTHER AREAS

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee See Notes. Zone X
- Area of Undetermined Flood Hazard Zone D

SCALE

Map Projection: NAD 1983 HARN StatePlane Arizona Central FIPS 0202 Feet Int; Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet 1:6,000

0 250 500 1,000 Feet

0 75 150 300 Meters

NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP

PIMA COUNTY, ARIZONA and Incorporated Areas

PANEL **1669** OF **4750**

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
PIMA COUNTY	040073	1669	L
TUCSON, CITY OF	040076	1669	L

REVISED TO REFLECT LOMR EFFECTIVE: March 26, 2018

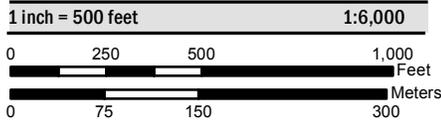
VERSION NUMBER 1.1.1.0
 MAP NUMBER 04019C1669L
 EFFECTIVE DATE JUNE 16, 2011

NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 13 SOUTH, RANGE 13 EAST AND TOWNSHIP 14 SOUTH, RANGE 13 EAST.

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A,V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
OTHER AREAS OF FLOOD HAZARD		Regulatory Floodway
		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee See Notes. Zone X
		Area of Undetermined Flood Hazard Zone D

SCALE

Map Projection:
NAD 1983 HARN StatePlane Arizona Central FIPS 0202 Feet Int;
Western Hemisphere; Vertical Datum: NAVD 88



FEMA
National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

PIMA COUNTY, ARIZONA
and Incorporated Areas

PANEL **1688** OF **4750**

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
PIMA COUNTY	040073	1688	L
TUCSON, CITY OF	040076	1688	L

REVISÉD TO REFLECT LOMR EFFECTIVE: March 26, 2018

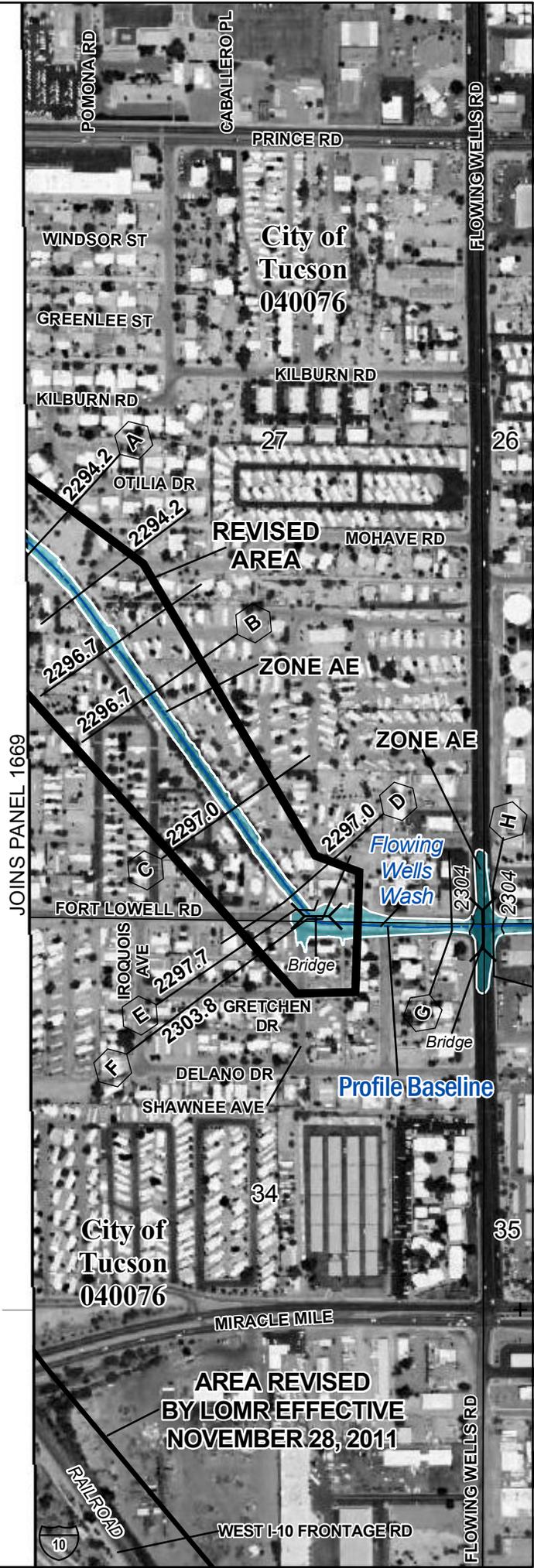
VERSION NUMBER
1.1.1.0

MAP NUMBER
04019C1688L

EFFECTIVE DATE
JUNE 16, 2011



FEMA
U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT



46000 FT

AREA REVISED BY LOMR EFFECTIVE NOVEMBER 28, 2011