



Federal Emergency Management Agency

Washington, D.C. 20472

February 1, 2016

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Jonathan Rothschild
Mayor, City of Tucson
City Hall
255 W. Alameda Street, 10th Floor
Tucson, AZ 85701

IN REPLY REFER TO:

Case No.: 15-09-2298P
Community Name: City of Tucson, AZ
Community No.: 040076
Effective Date of
This Revision: **June 13, 2016**

Dear Mayor Rothschild:

The Flood Insurance Rate Map and Flood Insurance Study for your community has 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, 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 Information eXchange 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/business/nfip>.

Sincerely,

Luis Rodriguez, P.E., Chief
Engineering Management Branch
Federal Insurance and Mitigation Administration

List of Enclosures:

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

cc: Mr. James Vogelsberg, P.E.
City Engineer

Ms. Suzanne Shields, P.E.
Director
Pima County Regional Flood Control District

Mr. Terry Hendricks, CFM
Chief Hydrologist
Pima County Regional Flood Control District

Mr. Robert Shand, P.E.
JE Fuller / Hydrology & Geomorphology, Inc.



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	CULVERT	HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS UPDATED TOPOGRAPHIC DATA
	COMMUNITY NO.: 040076		
IDENTIFIER	Tucson Arroyo/High School Wash LOMR	APPROXIMATE LATITUDE & LONGITUDE: 32.228, -110.978 SOURCE: USGS QUADRANGLE DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM* NO.: 04019C2276L DATE: June 16, 2011 TYPE: FIRM* NO.: 04019C2277L DATE: June 16, 2011 TYPE: FIRM* NO.: 04019C2279L DATE: June 16, 2011		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: September 28, 2012 PROFILE(S): 19P, 111P, 250P, 251P and 252P PROFILE(S) NEW: 111P(a) AND 250P(a) SUMMARY OF DISCHARGES TABLE: TABLE 6	

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

High School Wash - from the confluence with Tucson Arroyo to approximately 200 feet upstream of N. Euclid Avenue

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
High School Wash	Zone AE	Zone AE	YES	YES
	Zone X (shaded)	Zone X (shaded)	YES	YES
	Zone X (unshaded)	Zone X (unshaded)	YES	NONE
	BFEs	BFEs	YES	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 Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Luis Rodriguez, P.E., Chief
Engineering Management 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)

Tucson Arroyo - from the confluence with Santa Cruz River to the confluence of Arroyo Chico

Arroyo Chico (previously referred to as Arroyo Chico Upstream) - from the confluence with Tucson Arroyo to approximately 600 feet upstream of S. Park Avenue

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Tucson Arroyo	Zone AE	Zone AE	YES	YES
	BFEs	BFEs	NONE	YES
	Zone AO	Zone X (unshaded)	NONE	YES
	Zone X (unshaded)	Zone X (unshaded)	YES	NONE
	Zone X (shaded)	Zone X (shaded)	YES	YES
Arroyo Chico (previously referred to as Arroyo Chico Upstream)	Zone AE	Zone AE	NONE	YES
	BFEs	BFEs	NONE	YES
	Zone X (unshaded)	Zone X (unshaded)	YES	NONE
	Zone X (shaded)	Zone X (shaded)	NONE	YES

* BFEs - Base Flood Elevations

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, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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Engineering Management Branch
Federal Insurance and Mitigation Administration



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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.

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 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, 847 South Pickett Street, Alexandria, VA 22304-4605. 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)**

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. 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, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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Luis Rodriguez, P.E., Chief
Engineering Management Branch
Federal Insurance and Mitigation Administration



Federal Emergency Management Agency
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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/Scripts/bfe_main.asp.

LOCAL NEWSPAPER

Name: *Arizona Daily Star*

Dates: February 5, 2016 and February 12, 2016

Within 90 days of the second publication in the local newspaper, a citizen 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 information 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, 847 South Pickett Street, Alexandria, VA 22304-4605. 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 "Luis Rodriguez".

Luis Rodriguez, P.E., Chief
Engineering Management Branch
Federal Insurance and Mitigation Administration

TABLE 6 – SUMMARY OF DISCHARGES - continued

FLOODING SOURCE AND LOCATION	DRAINAGE AREA (sq. miles)	PEAK DISCHARGES (cfs)			
		10-PERCENT	2-PERCENT	1-PERCENT	0.2-PERCENT
ANKLAM WASH At Silverbell Road	3.0	1,360	3,450	4,500	*
ARCADIA WASH		*			
At Speedway Boulevard	2.26	*	*	2,450	*
At Pima Street	2.43	*	*	2,566	*
At Grant Road	2.53	*	*	2,617	*
At Rosemont Boulevard	1.94	*	*	2,587	*
At Craycroft Road	1.39		*	1,117	*
ARROYO CHICO					
At confluence with Tucson Arroyo	8.8	1,311	1,616	1,693	1,820
Downstream of confluence with Railroad Wash	8.3	*	*	3,234	*
Upstream of confluence with Railroad Wash	5.91	*	*	1,654	*
At Tucson Boulevard	5.52	*	*	1,428	*
At Randolph Way	3.58	*	*	312	*
At Alvernon Way	0.7	*	*	986	*
ATTERBURY WASH					
Upstream of confluence with Pantano Wash	N/A	*	*	4,200	*
BIG WASH					
Upstream of confluence with Canada del Oro Wash	110.0	5,700	13,500	18,300	31,000
Upstream of confluence with Honey Bee Wash	89.9	5,200	12,400	16,900	28,000
BLACK WASH					
At downstream limit of detailed study (intersection of Tucson-Ajo and Old Ajo Highways, south of Tucson- Ajo Highway)	48.8	*	*	8,872	*
South of Tucson-Ajo Highway, west of Vahalla Road	26.4	*	*	4,904	*
At the middle of Section 9, north of Valencia Road and east of Vahalla Road	24.2	*	*	6,703	*
South of Valencia Road, near Camino Rancho Road	16.8	*	*	5,035	*
South of Tucson-Ajo Highway, east of Vahalla Road	10.2	*	*	3,484	*
South of Drexel Road extended, west of Wade Road	5.1	*	*	2,469	*
At intersection of Drexel and Sheridan Roads	0.8	*	*	1,319	*
South of Ajo Highway, west of Camino Verde Road	2.0	*	*	902	*

Revised Data

Revised by LOMR effective
September 29, 2014

*Data not available

REVISED TO
REFLECT LOMR
EFFECTIVE: June 13, 2016

TABLE 6 – SUMMARY OF DISCHARGES - continued

FLOODING SOURCE AND LOCATION	DRAINAGE AREA (sq. miles)	PEAK DISCHARGES (cfs)			
		10-PERCENT	2-PERCENT	1-PERCENT	0.2-PERCENT
ESPERERO WASH					
Upstream of Confluence with Ventana Canyon Wash	6.19	4,243	6,949	8,898	13,574
Upstream of Sunrise Drive	6.11	4,333	7,067	9,170	13,663
Downstream of Thimble View Way	5.9	5,121	8,907	10,762	15,953
ESTE WASH					
At confluence with Tanque Verde Creek	2.5	*	*	4,490	*
At Speedway Boulevard	1.7	*	*	3,308	*
At Broadway Boulevard	0.9	*	*	1,974	*
FLOWING WELLS WASH					
At Higgins Lane	6.1	*	*	3,013	*
GIBSON ARROYO					
At West Second Avenue	2.2	920	1,850	2,400	4,750
At State Highway 85	1.7	1,560	3,140	3,990	4,200
GREASEWOOD WASH					
At confluence with Silvercroft Wash	2.12	*	*	2,130	*
At Ironwood Hills Drive	1.81	*	*	2,900	*
At Saddle Ranch Drive	0.71	*	*	1,304	*
GUILD WASH					
At Union Pacific Railroad and Pinal/Pima County Boundary	8.56	*	*	2,100	*
HARDY WASH					
At Hartman Lane	9.52	*	*	2,152	*
HIDDEN HILLS WASH					
At confluence with Tanque Verde Creek	2.05	*	*	1,909	*
Approximately 900 feet downstream of Wrightstown Road	1.24	*	*	1,193	*
At Broadway Boulevard	0.84	*	*	2,850	*
HIGH SCHOOL WASH					
At Second Avenue	1.4	*	*	1,115 ¹	*
At Highland Avenue	1.0	*	*	2,098	*
At Campbell Avenue	0.7	*	*	1,785	*
IDLE HOUR WASH					
At confluence with Santa Cruz River	6.6	*	*	7,675	*

Revised Data

*Data not available

¹High School Wash overflow discharge

REVISED TO
REFLECT LOMR
EFFECTIVE: June 13, 2016

TABLE 6 – SUMMARY OF DISCHARGES - continued

FLOODING SOURCE AND LOCATION	DRAINAGE AREA (sq. miles)	PEAK DISCHARGES (cfs)			
		10-PERCENT	2-PERCENT	1-PERCENT	0.2-PERCENT
TUCSON ARROYO					
Just upstream of West Interstate 10 Frontage Road	10.70	2,078	3,020	3,321	4,278
Just upstream of St. Mary's Road	10.66	2,055	2,985	3,287	4,223
Just upstream of Perry Avenue	10.63	2,051	2,977	3,282	4,212
UNNAMED TRIBUTARY TO ROLLERCOASTER WASH					
Approximately 300 feet upstream of confluence with Rollercoaster Wash	*	*	*	6,602	*
UNNAMED WASH					
At Tangerine Road	2.20	*	*	1,515	*
UNNAMED WASH					
At Cortaro Farms Road and Union Pacific Railroad.	1.4	*	*	690	*
VAN BUREN WASH					
At confluence with Alamo Wash	0.5	*	*	941	*
At Pima Street	0.3	*	*	633	*
VENTANA CANYON WASH					
At confluence with Tanque Verde Creek	16.64	5,066	9,030	11,527	18,238
Downstream of River Road	*	5,325	9,453	12,058	19,072
Upstream of Sabino Canyon Road	15.87	7,271	12,547	45,939	25,162
Downstream of confluence with Esperero Canyon Wash	14.14	8,122	14,053	17,753	27,253
Upstream of Esperero Canyon Wash	7.94	5,271	9,151	11,484	17,544
Upstream of Sunrise Road	6.98	5,378	9,448	12,044	17,805
Upstream of Resort Drive	3.85	5,179	8,813	10,596	14,864
WILD BURRO CANYON					
At Dove Mountain Boulevard	6.24	*	*	3,634	*
WILSON WASH					
At Mountain Avenue	3.0	*	*	2,715	*
At Campbell Avenue	1.8	*	*	2,279	*

Revised Data

*Data not available

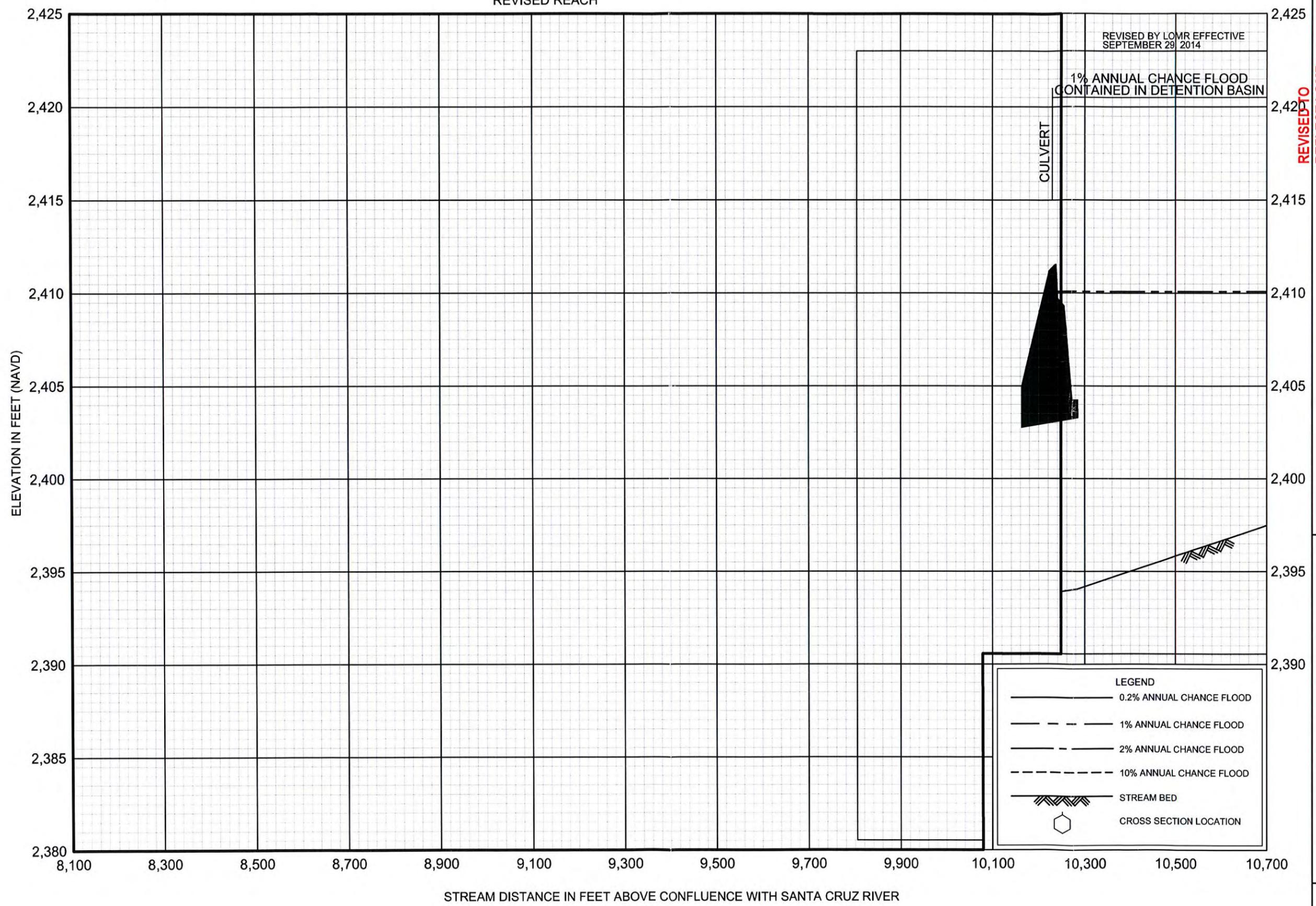
**REVISED TO
REFLECT LOMR
EFFECTIVE: June 13, 2016**

REVISED REACH

REVISED BY LOMR EFFECTIVE
SEPTEMBER 29, 2014

1% ANNUAL CHANCE FLOOD
CONTAINED IN DETENTION BASIN

CULVERT



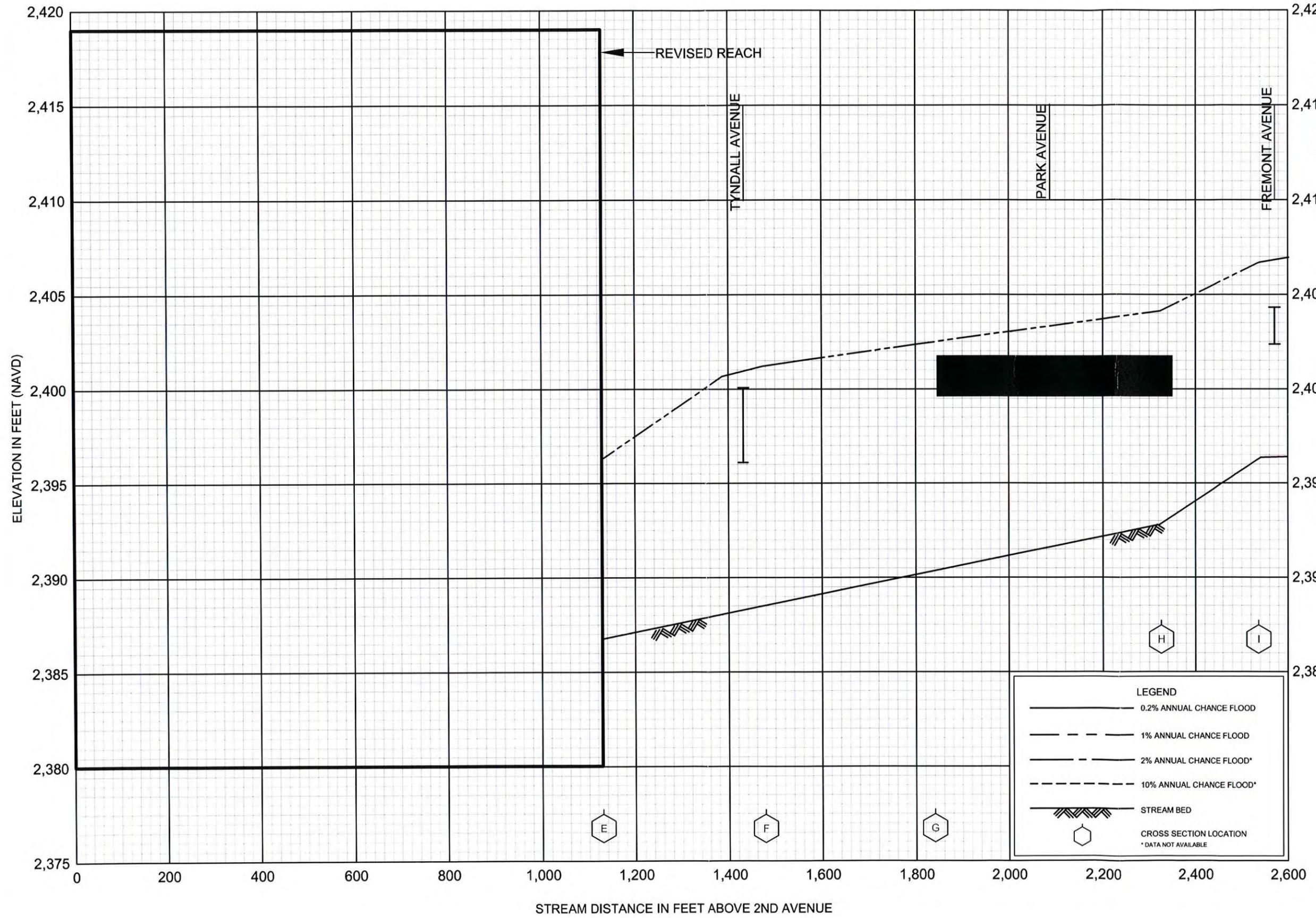
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EFFECTIVE: June 13, 2016

FLOOD PROFILES

ARROYO CHICO

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIMA COUNTY, AZ
AND INCORPORATED AREAS

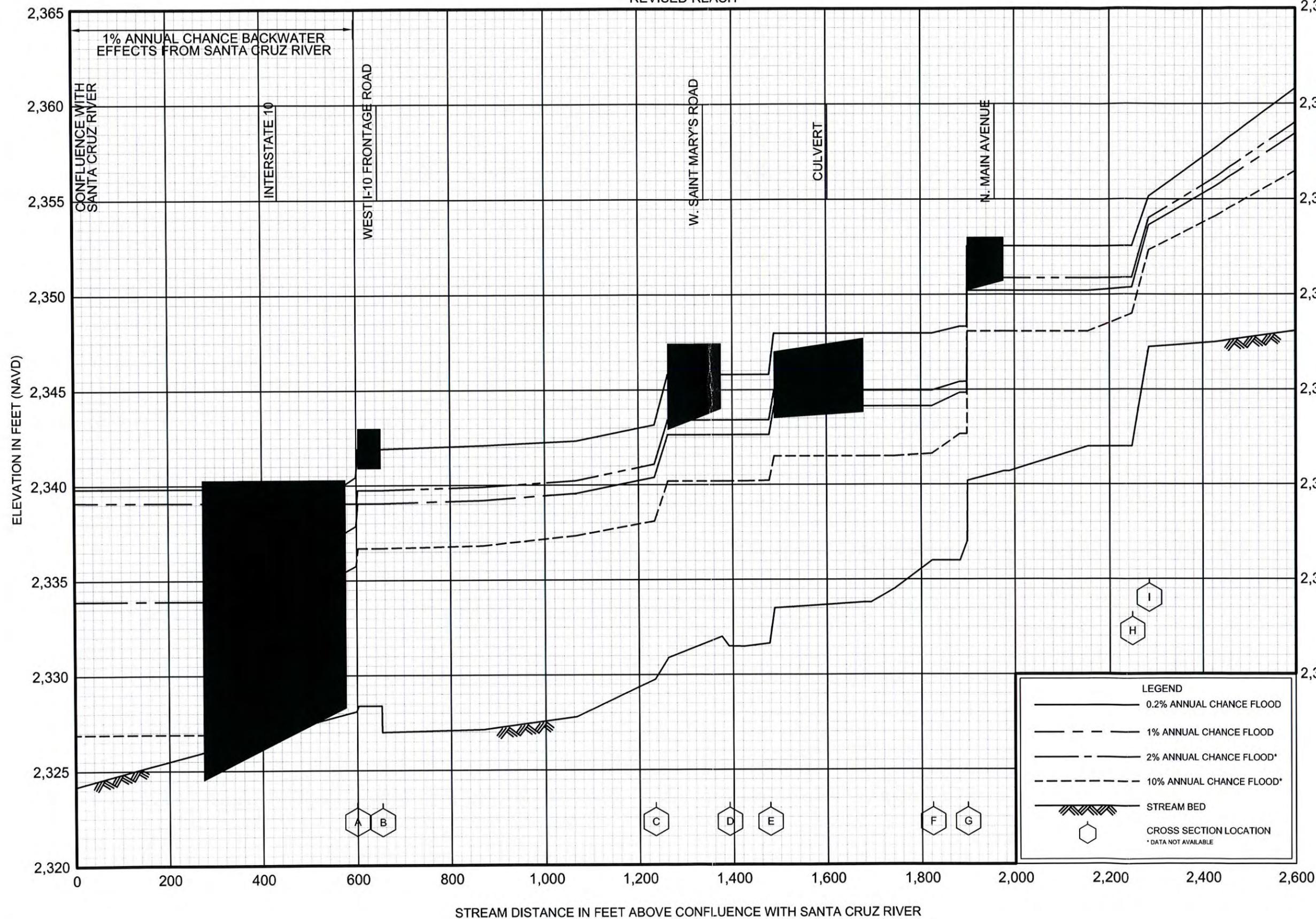


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EFFECTIVE: June 13, 2016

FLOOD PROFILES
HIGH SCHOOL WASH

FEDERAL EMERGENCY MANAGEMENT AGENCY
PIMA COUNTY, AZ
AND INCORPORATED AREAS

REVISED REACH



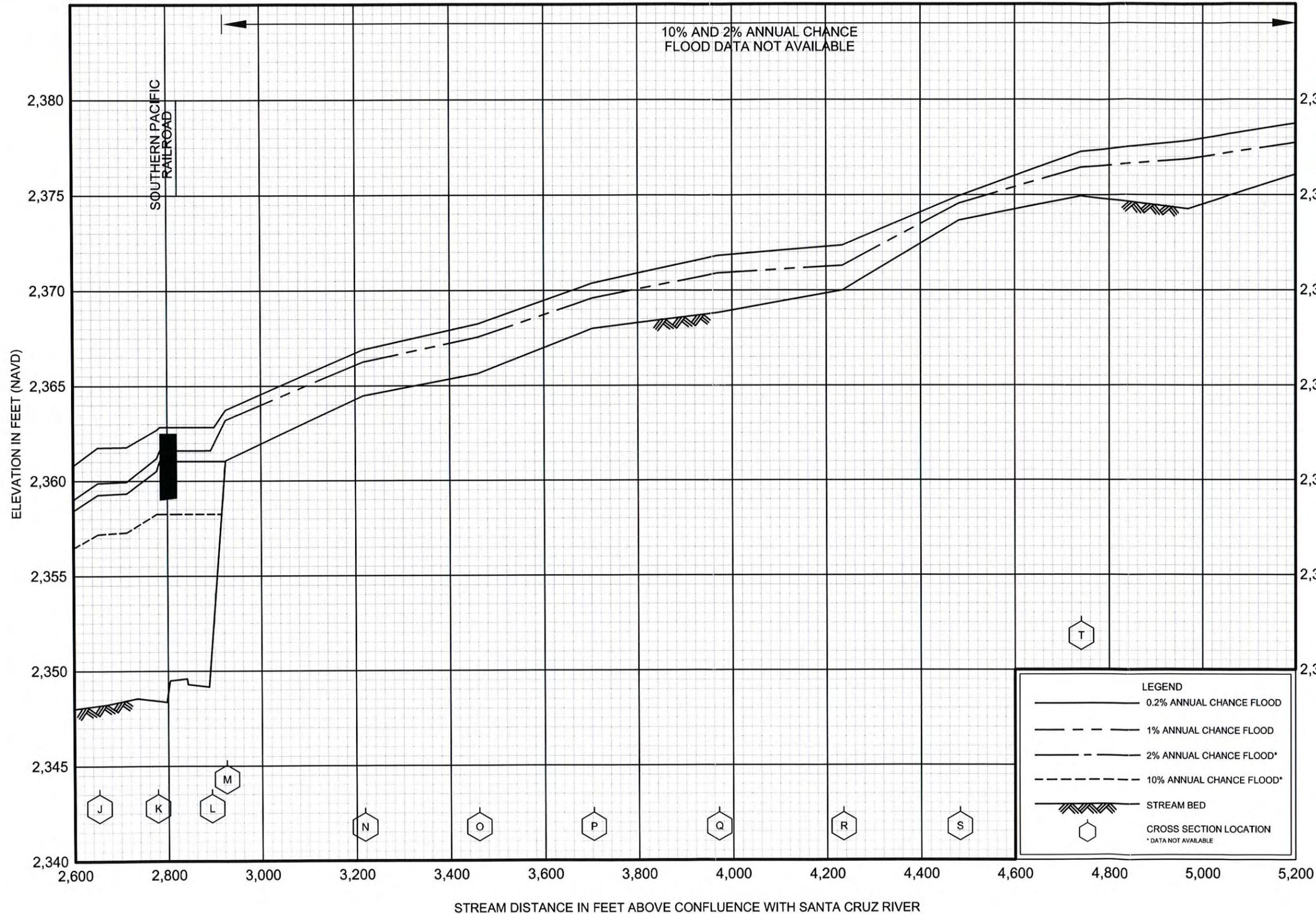
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FLOOD PROFILES TUCSON ARROYO

FEDERAL EMERGENCY MANAGEMENT AGENCY
PIMA COUNTY, AZ
AND INCORPORATED AREAS

REVISED REACH

10% AND 2% ANNUAL CHANCE
FLOOD DATA NOT AVAILABLE

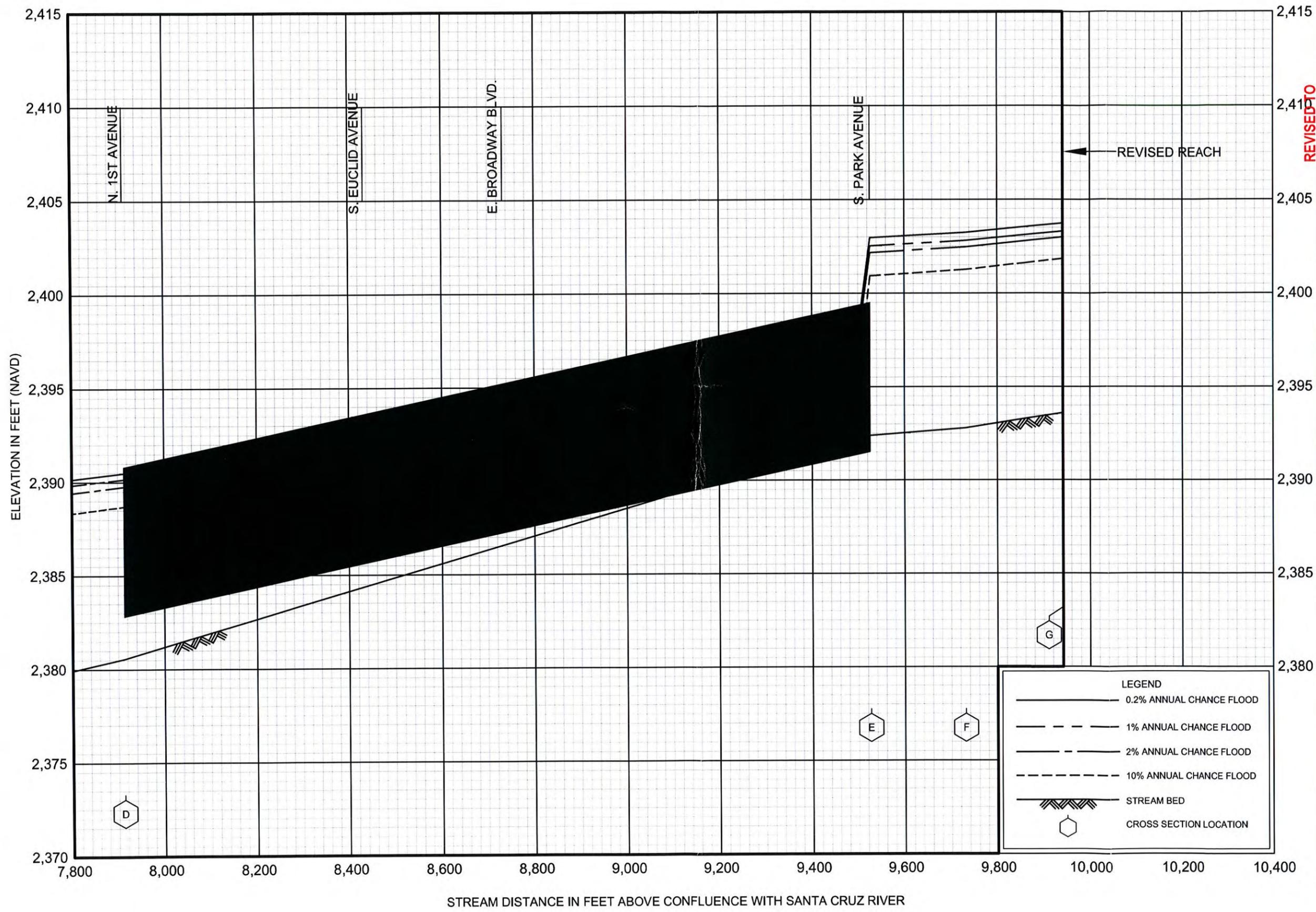


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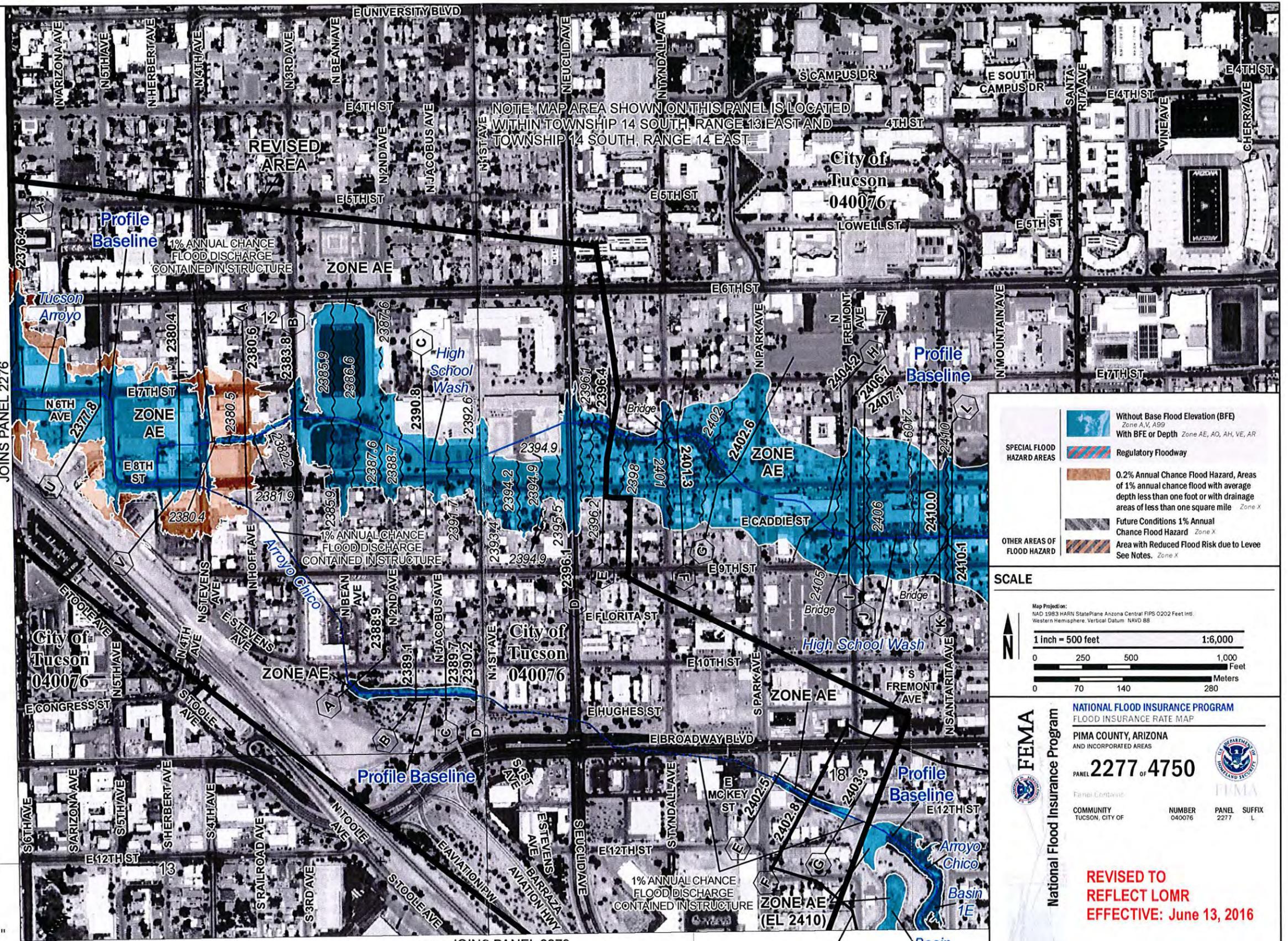
FLOOD PROFILES
TUCSON ARROYO

FEDERAL EMERGENCY MANAGEMENT AGENCY
PIMA COUNTY, AZ
AND INCORPORATED AREAS

250P(a)



REVISED TO REFLECT LOMR EFFECTIVE: June 13, 2016
FLOOD PROFILES ARROYO CHICO
 FEDERAL EMERGENCY MANAGEMENT AGENCY
PIMA COUNTY, AZ
 AND INCORPORATED AREAS
 252P



JOINS PANEL 2276

JOINS PANEL 2279

445000 FT

32° 13' 07.5"

110° 58' 07.5"

503⁰⁰⁰mE

504⁰⁰⁰mE

AREA REVISED BY LOMR EFFECTIVE SEPTEMBER 29, 2014

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
- 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

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

0 250 500 1,000 Feet

0 70 140 280 Meters

FEMA
National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

PIMA COUNTY, ARIZONA
AND INCORPORATED AREAS

2277 of 4750

Panel Contained:
COMMUNITY TUCSON, CITY OF NUMBER 040076 PANEL 2277 SUFFIX L

REVISED TO REFLECT LOMR EFFECTIVE: June 13, 2016

VERSION NUMBER 1.1.1.0
MAP NUMBER 04019C2277L
EFFECTIVE DATE JUNE 16, 2011

995000 FT

JOINS PANEL 2277

1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN STRUCTURE

ZONE AE (EL 2410)

Basin 1W

Basin 1E

ZONE AE (EL 2416)

Arroyo Chico

Culvert

REVISED AREA

AREA REVISED BY LOMR EFFECTIVE SEPTEMBER 29, 2014

City of Tucson 040076

City of Tucson 040076

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
- 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 OF FLOOD HAZARD

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

0 245 490 980 Feet

0 70 140 280 Meters

FEMA National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP
PIMA COUNTY, ARIZONA
AND INCORPORATED AREAS

2279 OF 4750

PANEL 2279 OF 4750

COMMUNITY	NUMBER	PANEL	SUFFIX
SOUTH TUCSON, CITY OF	040075	2279	L
TUCSON, CITY OF	040076	2279	L

REVISED TO REFLECT LOMR EFFECTIVE: June 13, 2016

VERSION NUMBER 1.1.1.0
MAP NUMBER 04019C2279L
EFFECTIVE DATE JUNE 16, 2011

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

