



Federal Emergency Management Agency

Washington, D.C. 20472

February 8, 2018

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Lisa B. Pierce
Mayor, City of Kirby
112 Bauman Street
Kirby, TX 78219

IN REPLY REFER TO:

Case No.: 17-06-3964P
Follows Conditional
Case No.: 12-06-1493R
Community Name: City of Kirby, TX
Community No.: 480041
Effective Date of
This Revision: June 28, 2018

Dear Mayor Pierce:

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, Mitigation Division of the Department of Homeland Security's Federal Emergency Management Agency (FEMA) in Denton, Texas, at (940) 898-5127, or the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP). Additional information about the NFIP is available on our website at <https://www.fema.gov/national-flood-insurance-program>.

Sincerely,

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

List of Enclosures:

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

cc: Ms. Monique Vernon
City Manager
City of Kirby

Mr. Craig Maske, P.E., CFM
IDS Engineering Group

Mr. David Wegmann, P.E.
Bexar County Public Works

RECEIVED
2018 FEB 16 PM 3:08
BEXAR COUNTY
PUBLIC WORKS

Follows Conditional Case No.: 12-06-1493R



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 Kirby Bexar County Texas	BRIDGE CHANNELIZATION CULVERT	FLOODWAY HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS UPDATED TOPOGRAPHIC DATA
	COMMUNITY NO.: 480041		
IDENTIFIER	West Tributary to Rosillo Creek	APPROXIMATE LATITUDE & LONGITUDE: 29.460, -98.384 SOURCE: USGS QUADRANGLE DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM* NO.: 48029C0410G DATE: September 29, 2010		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: September 29, 2017 PROFILE(S): 541P, 556P, 557P and 558P FLOODWAY DATA TABLE: 10 SUMMARY OF DISCHARGES TABLE: 6E	

Enclosures reflect changes to flooding sources affected by this revision.
* FIRM - Flood Insurance Rate Map

FLOODING SOURCES AND REVISED REACHES See Page 2 for Additional Flooding Sources

West Tributary to Rosillo Creek - from the confluence with Rosillo Creek to approximately 570 feet upstream of Old Seguin Road

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
West Tributary to Rosillo Creek	Zone AE	Zone AE	NONE	YES
	BFEs*	BFEs	NONE	YES
	Floodway	Floodway	YES	YES
	No Floodway	Floodway	YES	NONE

* 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, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/national-flood-insurance-program>.

Patrick "Rick" F. Sacbbit, 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 SOURCES AND REVISED REACHES

West Tributary to Rosillo Creek - from the confluence with Rosillo Creek to approximately 570 feet upstream of Old Seguin Road

Unnamed Tributary 1 to West Tributary to Rosillo Creek - from the confluence with West Tributary to Rosillo Creek to approximately 510 feet upstream of Crest Lane

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
West Tributary to Rosillo Creek	Zone X (shaded)	Zone X (shaded)	YES	YES
Unnamed Tributary 1 to West Tributary to Rosillo Creek	Zone AE	Zone AE	NONE	YES
	BFEs*	BFEs	NONE	YES
	Zone X (shaded)	Zone X (shaded)	YES	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, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional information about the NFIP is available on our website at <https://www.fema.gov/national-flood-insurance-program>.

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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.

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 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 <https://www.fema.gov/national-flood-insurance-program>.

A handwritten signature in black ink, appearing to read "Rick Sacbbit".

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



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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. Sandy Keefe
Director, Mitigation Division
Federal Emergency Management Agency, Region VI
Federal Regional Center, Room 206
800 North Loop 288
Denton, TX 76209
(940) 898-5127

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 <https://www.fema.gov/national-flood-insurance-program>.

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Engineering Services Branch
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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: *Northeast Herald*

Dates: February 21, 2018 and February 28, 2018

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 <https://www.fema.gov/national-flood-insurance-program>.

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

Table 6E – Summary of Discharges – Salado Creek Watershed (continued)

<u>Flooding Source and Location</u>	<u>Drainage Area (square miles)</u>	<u>Peak Discharges (cubic feet per second)</u>			
		<u>10-Percent-Annual-Chance</u>	<u>2-Percent-Annual-Chance</u>	<u>1-Percent-Annual-Chance</u>	<u>0.2-Percent-Annual-Chance</u>
TRIBUTARY F TO SALADO CREEK					
Confluence with Tributary E to Salado Creek	5.41	5,373	8,079	9,329	12,624
Approximately 600 feet upstream of Thousand Oaks	3.8	4,610	7,005	8,026	11,112
TUTTLE ROAD DITCH					
Confluence with Fort Sam Houston Tributary	0.43	868	1,277	1,488	2,057
UNNAMED TRIBUTARY 1 TO BEITEL CREEK					
Confluence with Beitel Creek	-- ¹	1,379	2,001	2,309	3,189
UNNAMED TRIBUTARY 1 TO ELM WATERHOLE CREEK					
Confluence with Elm Waterhole Creek	-- ¹	93	108	112	844
Approximately 2700 feet upstream of confluence of Elm Waterhole Creek	2.67	2,997	5,041	5,974	8,750
UNNAMED TRIBUTARY 1 TO ROSILLO CREEK					
Confluence with Rosillo Creek	2.59	2,557	3,892	4,523	6,454
UNNAMED TRIBUTARY 1 TO SALADO CREEK					
Confluence with Salado Creek	0.71	1,125	1,664	1,934	2,698
UNNAMED TRIBUTARY 1 TO WEST TRIBUTARY TO ROSILLO CREEK					
Confluence with West Tributary to Rosillo Creek	0.65	917	1,340	1,547	2,138
UNNAMED TRIBUTARY 2 TO BEITEL CREEK					
Confluence with Beitel Creek	2.54	4,378	6,782	7,938	10,998
UNNAMED TRIBUTARY 2 TO SALADO MIDDLE CREEK					
Confluence with Salado Creek	1.51	2,056	3,030	3,508	4,891
UNNAMED TRIBUTARY 3 TO BEITEL CREEK					
Confluence with Beitel Creek	-- ¹	2,227	3,285	3,816	5,300

REVISED DATA

REVISED TO REFLECT LOMR EFFECTIVE: June 28, 2018

Table 6E – Summary of Discharges – Salado Creek Watershed (continued)

<u>Flooding Source and Location</u>	<u>Drainage Area (square miles)</u>	<u>Peak Discharges (cubic feet per second)</u>			
		<u>10-Percent-Annual-Chance</u>	<u>2-Percent-Annual-Chance</u>	<u>1-Percent-Annual-Chance</u>	<u>0.2-Percent-Annual-Chance</u>
UNNAMED TRIBUTARY A TO LORENCE CREEK Confluence with Lorence Creek	1.11	1,727	2,564	2,967	4,117
UNNAMED TRIBUTARY A TO MUD CREEK Confluence with Mud Creek	1.32	2,004	2,990	3,465	4,830
Confluence with Beitel Creek	-- ¹	1,379	2,001	2,309	3,189
UNNAMED TRIBUTARY TO MUD CREEK Just upstream of Redland Road	0.39	-- ¹	-- ¹	1,024	-- ¹
At approximately 1,660 feet upstream of Redland Road	0.25	-- ¹	-- ¹	715	-- ¹
UNNAMED TRIBUTARY TO MUSTANG CREEK Approximately 2,500 feet upstream of Mustang Creek	0.30	-- ¹	-- ¹	919	-- ¹
U.S. 281 TRIBUTARY TO SALADO CREEK Confluence with Salado Creek	1.74	2,545	4,017	4,536	6,204
Upstream of US Highway 281	0.77	1,164	1,806	2,117	2,999
WALZEM CREEK Confluence with Salado Creek	2.76	3,129	4,620	5,337	7,678
Approximately 200 feet downstream of Interstate Highway 35.	1.04	1,504	2,166	2,495	3,429
WEST TRIBUTARY TO ROSILLO CREEK Confluence with Rosillo Creek	2.74	3,847	5,433	6,290	8,708

¹ Information not available

San Antonio River Watershed

For redelineated streams in the unincorporated areas of Bexar County and City of China Grove, a search of the Flood Plain Information reports prepared by the USACE and the Flood Hazard Analyses report prepared by the SCS yielded a pair of flood-frequency, discharge area curves ranging from 1 to 70 square miles of drainage area (References 49 and 52). For the streams in the City of Selma, information was also obtained from another FIA report in that area (Reference 31). Flood frequencies are published as the Intermediate Regional Flood, which is defined as one that has a 1-percent annual chance of occurring in a given year, and

REVISE DATA

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANGE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
West Tributary to Rosillo Creek								
A	1,282	136	671	9.4	676.6	676.6	676.6	0.0
B	1,336	127	705	8.9	676.9	676.9	676.9	0.0
C	2,222	104	529	8.9	679.4	679.4	679.4	0.0
D	2,394	129	544	8.7	679.4	679.4	679.4	0.0
E	2,931	126	777	6.1	681.0	681.0	681.0	0.0
F	2,990	129	860	5.5	681.8	681.8	681.8	0.0
G	5,510	117	842	4.7	688.4	688.4	688.4	0.0
H	5,771	115	654	6.0	689.0	689.0	689.0	0.0
I	6,181	70	341	11.6	689.6	689.6	689.6	0.0
J	6,254	70	353	11.2	689.9	689.9	689.9	0.0

¹Feet above confluence with Rosillo Creek

FEDERAL EMERGENCY MANAGEMENT AGENCY

**BEXAR COUNTY, TX
AND INCORPORATED AREAS**

FLOODWAY DATA – SALADO CREEK WATERSHED

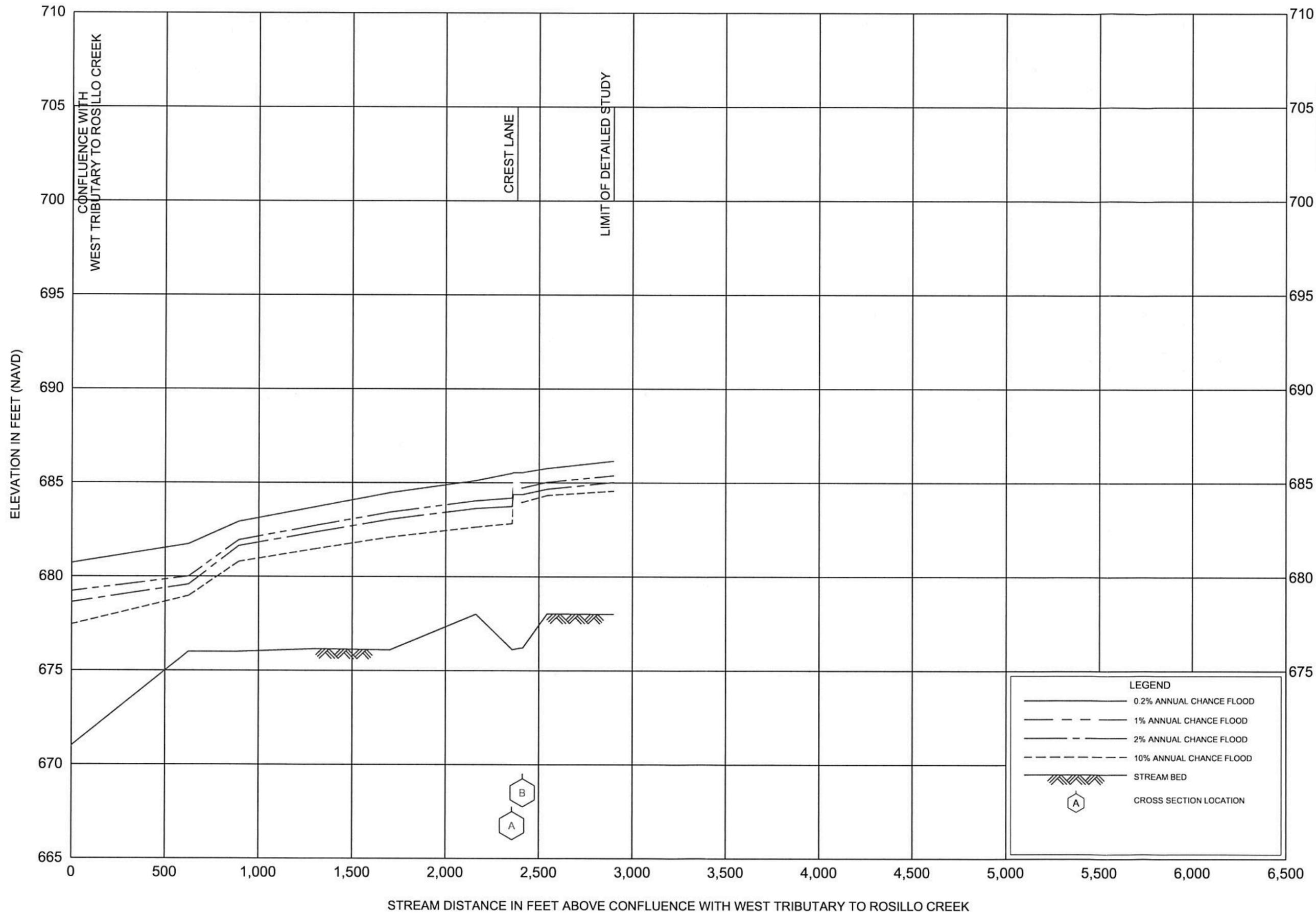
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WEST TRIBUTARY TO ROSILLO CREEK

TABLE 10

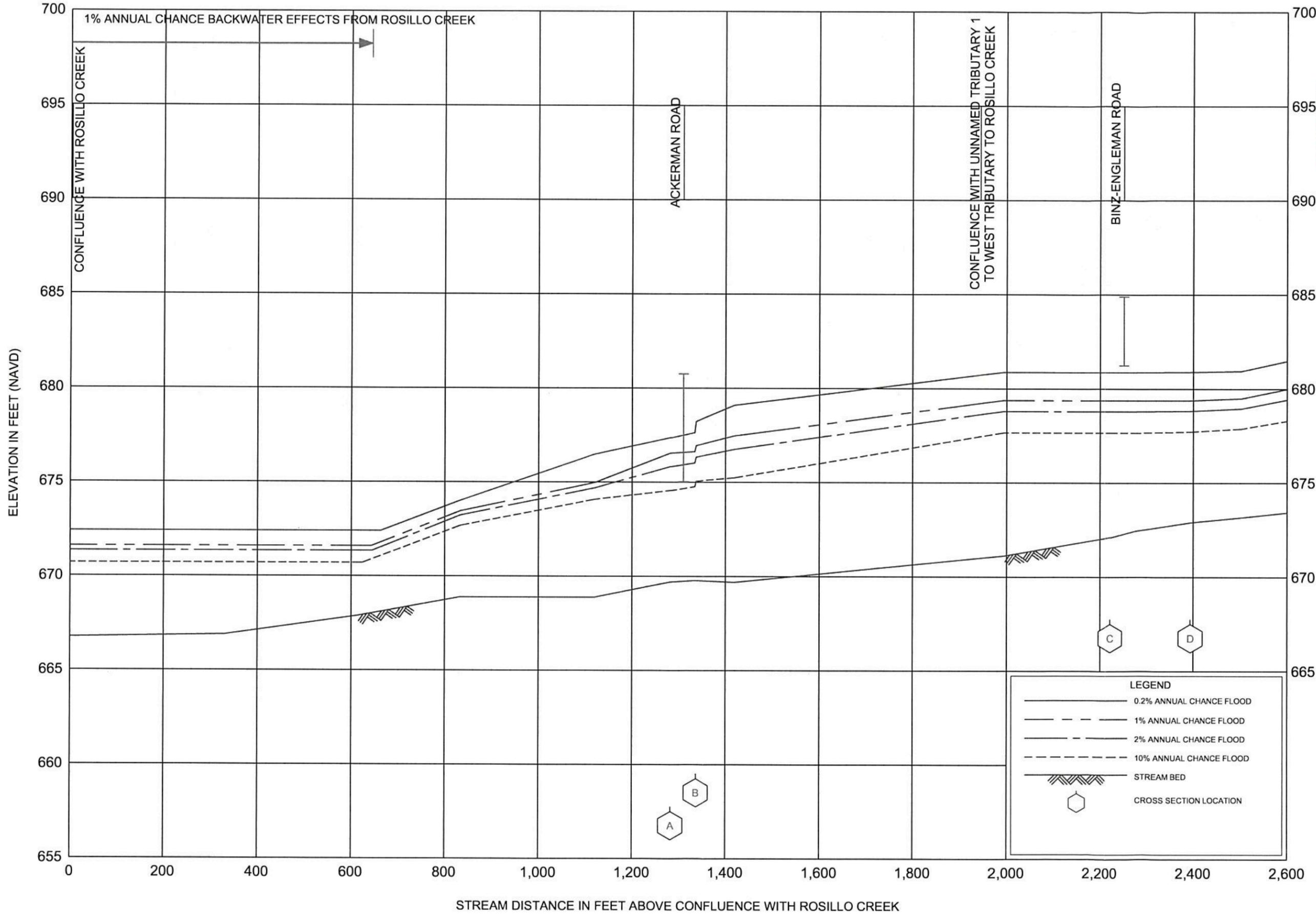


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FLOOD PROFILES

UNNAMED TRIBUTARY 1 TO WEST TRIBUTARY TO ROSILLO CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
BEXAR COUNTY, TX
AND INCORPORATED AREAS



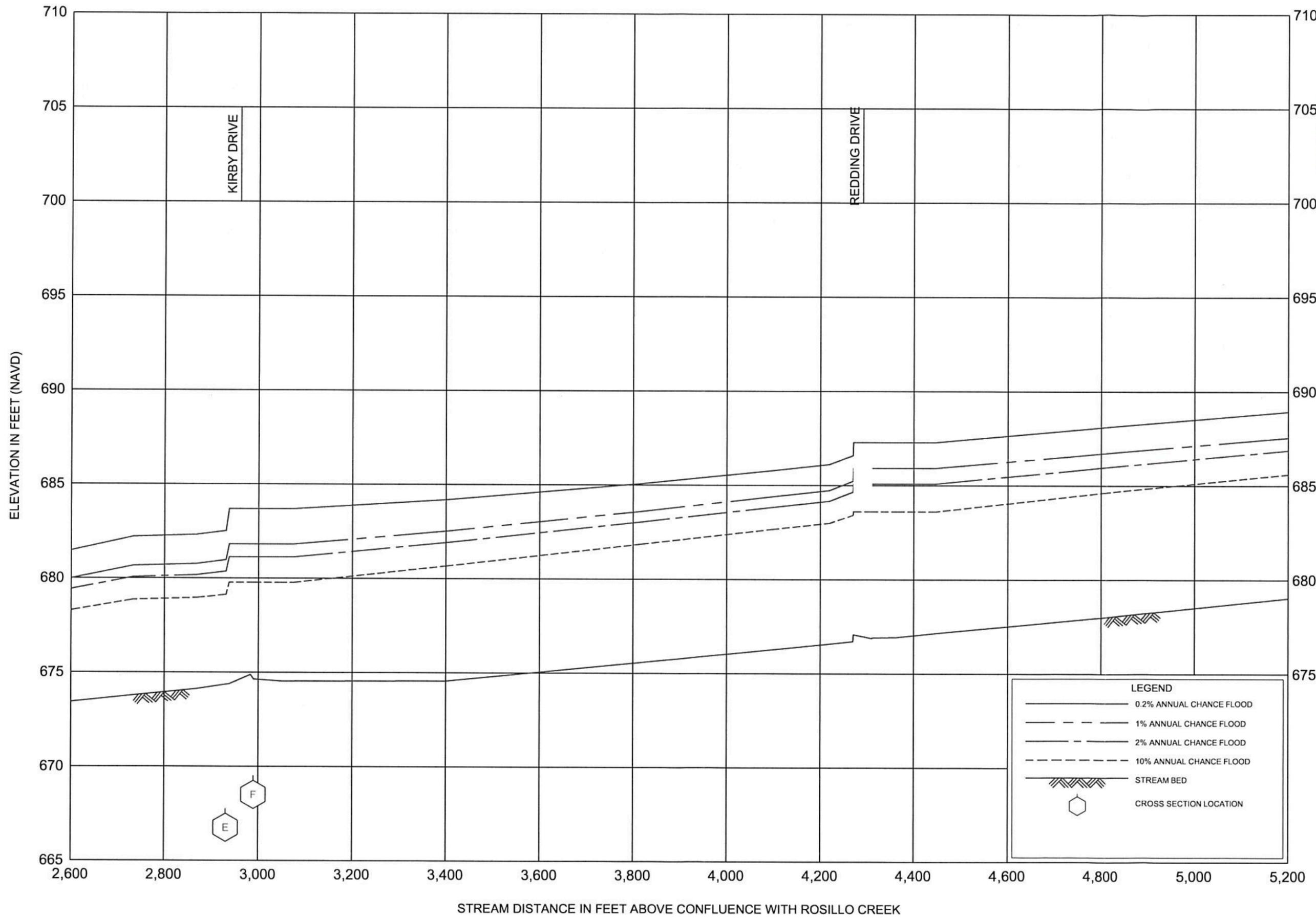
FLOOD PROFILES

WEST TRIBUTARY TO ROSILLO CREEK

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BEXAR COUNTY, TX
 AND INCORPORATED AREAS

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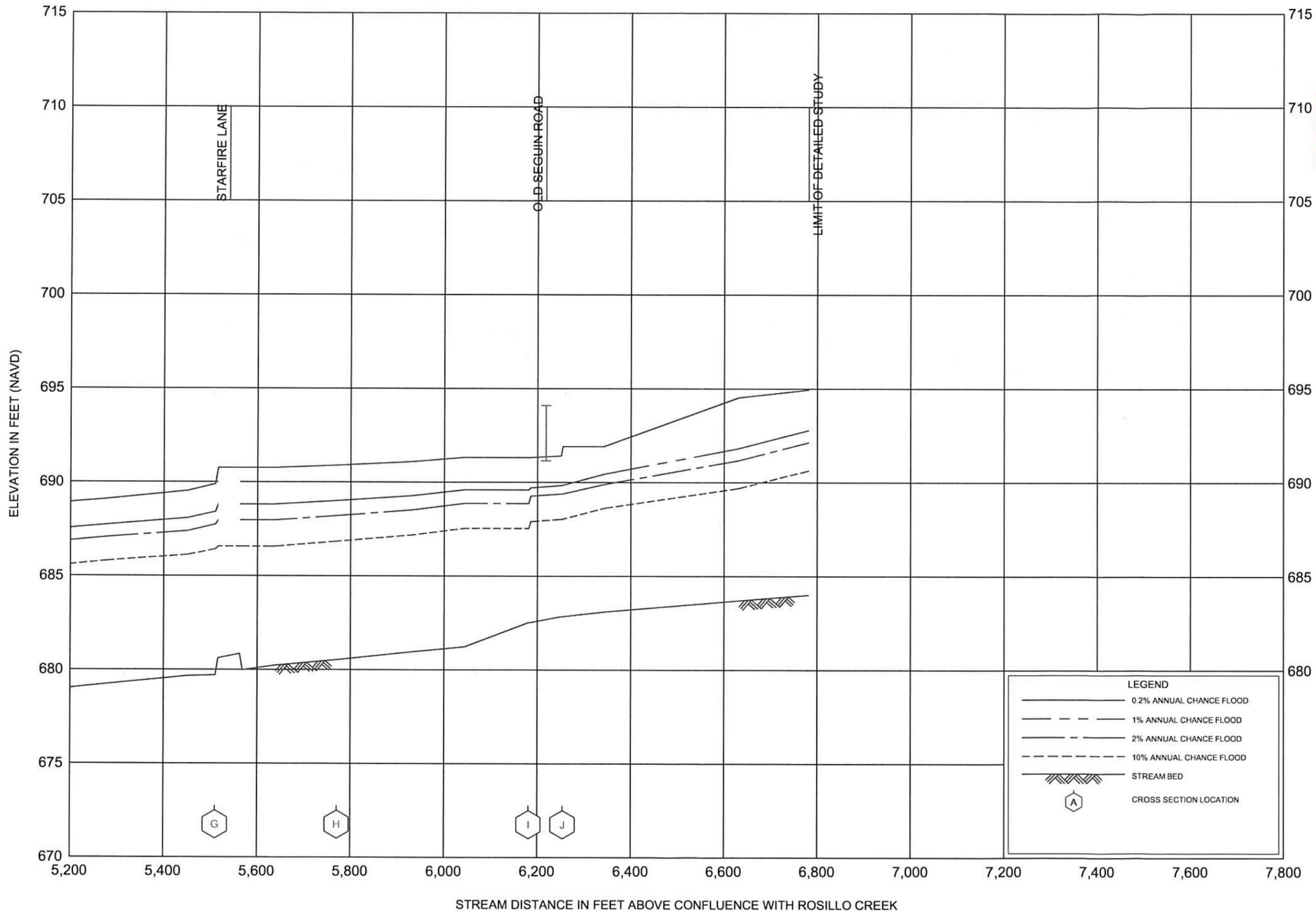
FLOOD PROFILES

WEST TRIBUTARY TO ROSILLO CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

BEXAR COUNTY, TX

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FEDERAL EMERGENCY MANAGEMENT AGENCY
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