



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 Arlington Tarrant County Texas	CULVERT	BASE MAP CHANGES FLOODWAY HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS NEW TOPOGRAPHIC DATA
	COMMUNITY NO.: 485454		
IDENTIFIER	Crystal Canyon Watershed Study	APPROXIMATE LATITUDE & LONGITUDE: 32.770,-97.096 SOURCE: USGS QUADRANGLE DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM* NO.: 48439C0240L DATE: March 21, 2019		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: March 21, 2019 PROFILE(S): 629P (NEW), 630P (NEW), AND 631P (NEW) SUMMARY OF DISCHARGES TABLE: 4	

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

Crystal Canyon Creek – From the confluence with West Fork Trinity River to approximately 590 feet upstream of Cantor Drive

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Crystal Canyon Creek	Zone X (unshaded)	Zone AE	NONE	YES
	Zone X (shaded)	Zone AO	NONE	YES
	Zone X (unshaded)	Zone X (shaded)	NONE	YES
	Zone X (shaded)	Zone AE	NONE	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. 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 SOURCE(S) & REVISED REACH(ES)

Crystal Canyon Creek - From the confluence with West Fork Trinity River to approximately 590 feet upstream of Cantor Drive

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Crystal Canyon Creek	No BFEs*	Depths	YES	NONE

* 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 <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.

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 <http://www.fema.gov/nfip>.

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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 <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: *Fort Worth Star Telegram*

Dates: August 2, 2019 and August 9, 2019

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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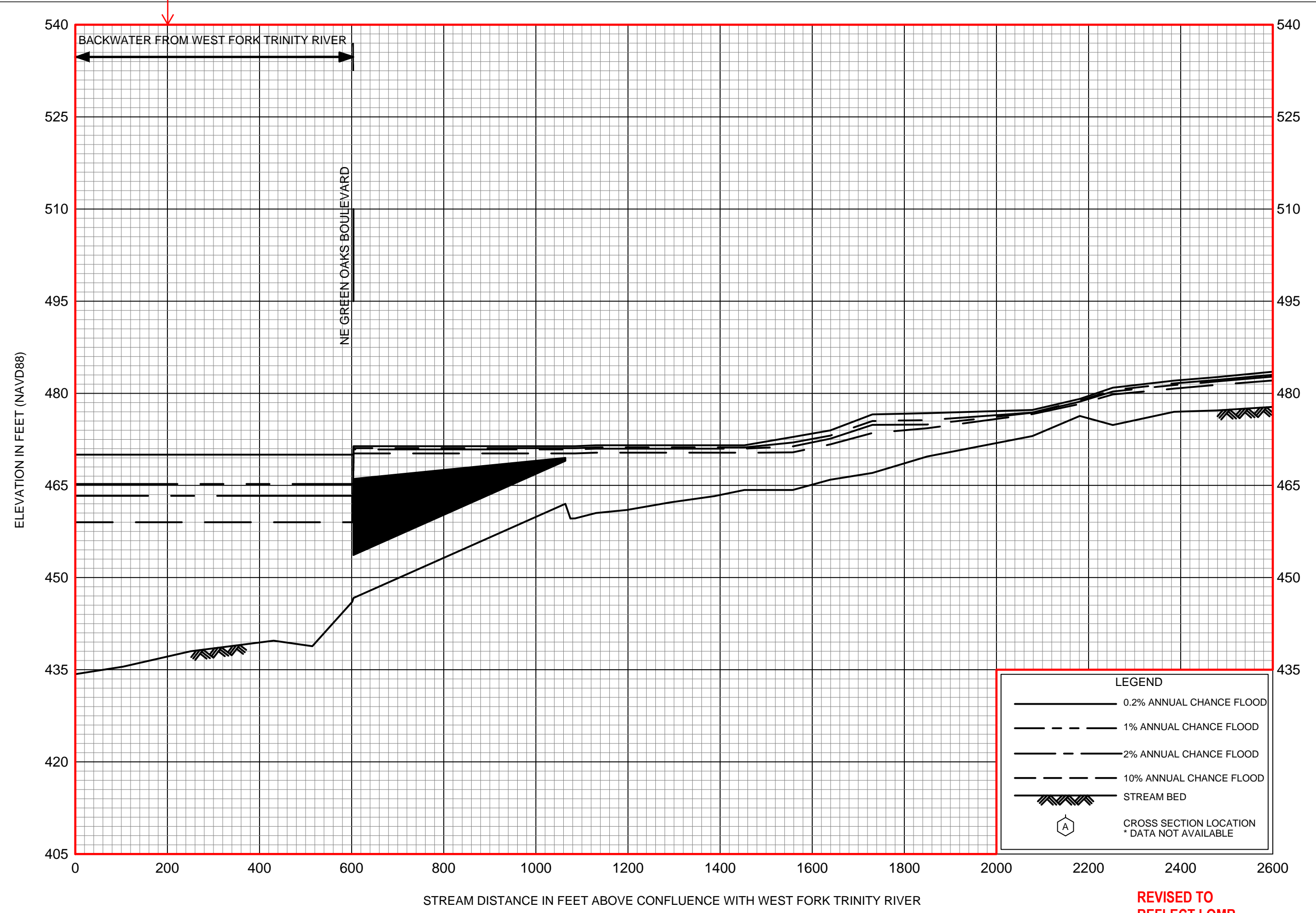
TABLE 4 – SUMMARY OF DISCHARGES (continued)

<u>FLOODING SOURCE AND LOCATION</u>	<u>DRAINAGE AREA (sq. mile)</u>	<u>PEAK DISCHARGES (cfs)</u>			
		<u>10% Annual Chance</u>	<u>2% Annual Chance</u>	<u>1% Annual Chance</u>	<u>0.2% Annual Chance</u>
<u>New Detailed Study Streams</u>					
Crystal Canyon Creek					
Just downstream of Harwell Drive	0.05	201	273	307	373
At Brown Boulevard	0.16	509	716	815	1002
430 feet above Glenbury Court	0.40	1,223	1,688	1,869	2,304

↑
REVISED DATA

REVISED TO
REFLECT LOMR
EFFECTIVE: December 6, 2019

REVISED REACH



FLOOD PROFILES

CRYSTAL CANYON CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

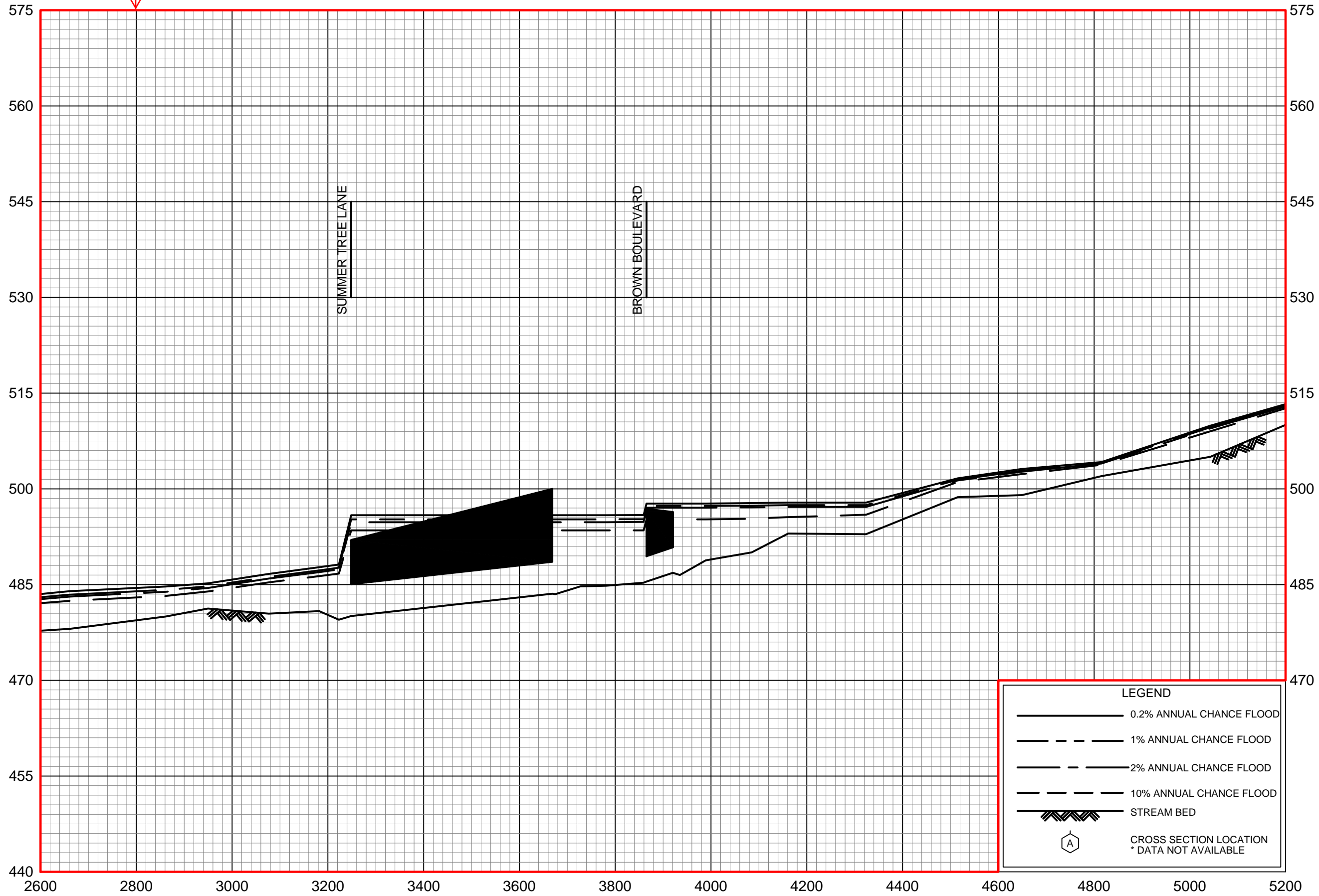
TARRANT COUNTY, TX
AND INCORPORATED AREAS

629P

REVISED TO
REFLECT LOMR
EFFECTIVE: December 6, 2019

REVISED REACH

ELEVATION IN FEET (NAVD88)



STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH WEST FORK TRINITY RIVER

FLOOD PROFILES

CRYSTAL CANYON CREEK

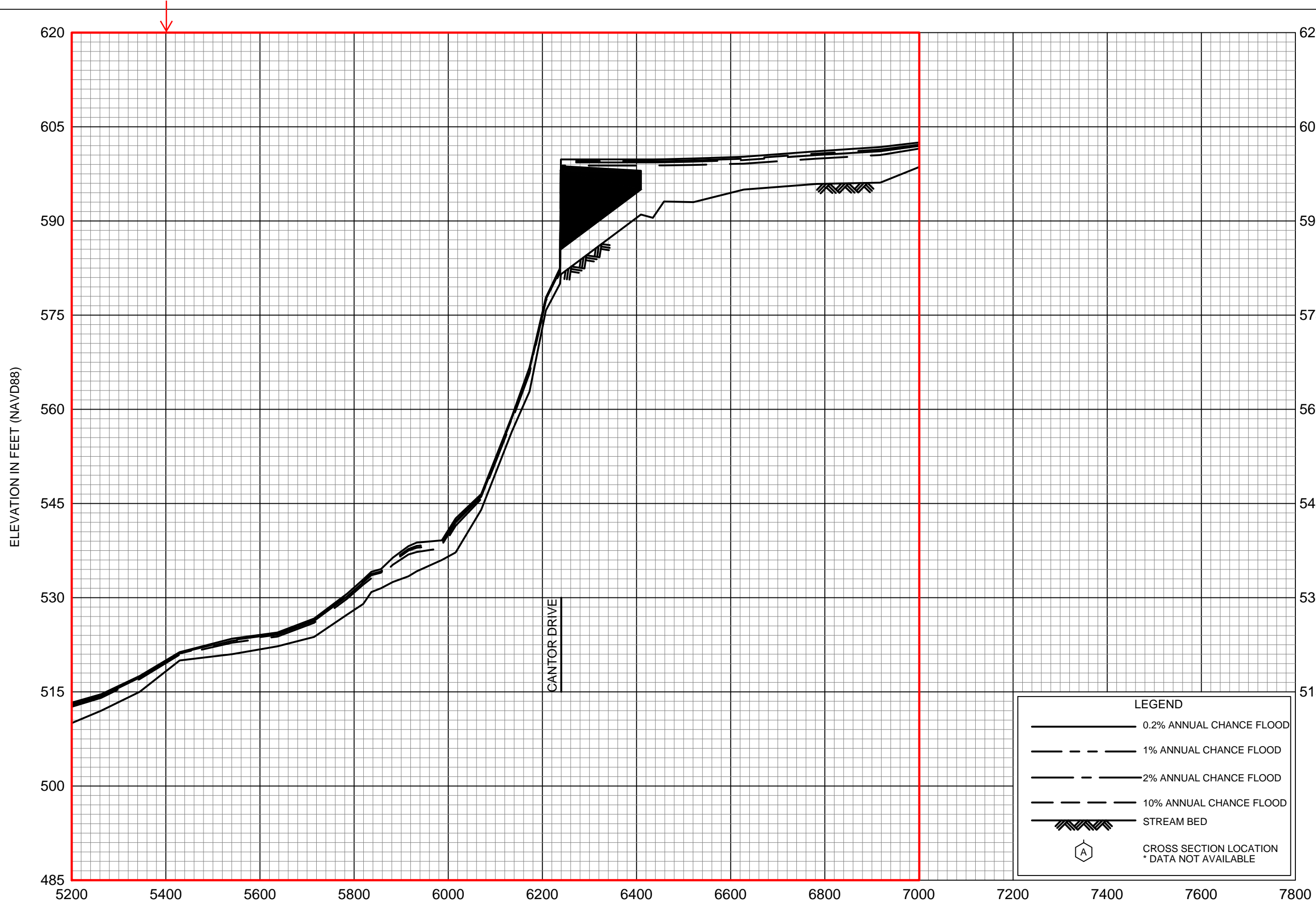
FEDERAL EMERGENCY MANAGEMENT AGENCY

TARRANT COUNTY, TX
AND INCORPORATED AREAS

630P

REVISED TO
REFLECT LOMR
EFFECTIVE: December 6, 2019

REVISED REACH



LEGEND

- 0.2% ANNUAL CHANCE FLOOD
- - - 1% ANNUAL CHANCE FLOOD
- · - 2% ANNUAL CHANCE FLOOD
- - - - 10% ANNUAL CHANCE FLOOD
- ▨ STREAM BED
- ⬡ A CROSS SECTION LOCATION
* DATA NOT AVAILABLE

FLOOD PROFILES

CRYSTAL CANYON CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

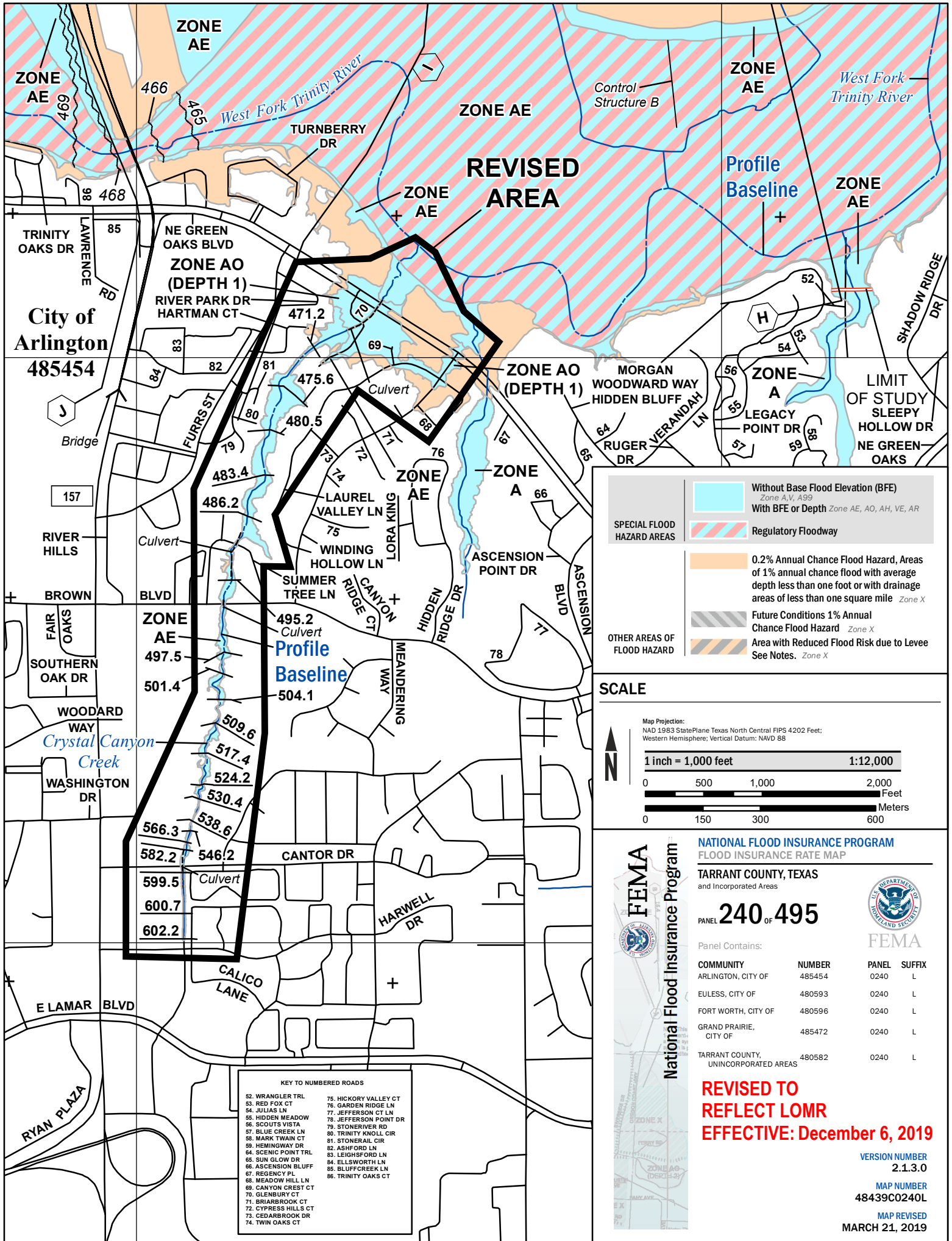
TARRANT COUNTY, TX

AND INCORPORATED AREAS

631P

REVISED TO
REFLECT LOMR
EFFECTIVE: December 6, 2019

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH WEST FORK TRINITY RIVER



City of
Arlington
485454

**REVISED
AREA**

Profile
Baseline

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

SCALE

Map Projection:
NAD 1983 StatePlane Texas North Central FIPS 4202 Feet;
Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 1,000 feet 1:12,000

0 500 1,000 2,000 Feet

0 150 300 600 Meters

FEMA
National Flood Insurance Program

**NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP**

TARRANT COUNTY, TEXAS
and Incorporated Areas

PANEL 240 OF 495

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
ARLINGTON, CITY OF	485454	0240	L
EULESS, CITY OF	480593	0240	L
FORT WORTH, CITY OF	480596	0240	L
GRAND PRAIRIE, CITY OF	485472	0240	L
TARRANT COUNTY, UNINCORPORATED AREAS	480582	0240	L

**REVISED TO
REFLECT LOMR
EFFECTIVE: December 6, 2019**

VERSION NUMBER
2.1.3.0

MAP NUMBER
48439C0240L

MAP REVISED
MARCH 21, 2019

KEY TO NUMBERED ROADS

82. WRANGLER TRL	75. HICKORY VALLEY CT
83. RED FOX CT	76. GARDEN RIDGE LN
84. JULIAS LN	77. JEFFERSON CT LN
85. HIDDEN MEADOW	78. JEFFERSON POINT DR
86. SCOUTS VISTA	79. STONERIVER RD
87. BLUE CREEK LN	80. TRINITY KNOLL CIR
88. MARK TWAIN CT	81. STONERAIL CIR
89. HEMINGWAY DR	82. ASHFORD LN
90. SCENIC POINT TRL	83. LEIGHSFORD LN
91. SUN GLOW DR	84. ELLSWORTH LN
92. ASCENSION BLUFF	85. BLUFFCREEK LN
93. REGENCY PL	86. TRINITY OAKS CT
94. MEADOW HILL LN	
95. CANYON CREST CT	
96. GLENBURY CT	
97. BRIARBROOK CT	
98. CYPRESS HILLS CT	
99. CEDARBROOK DR	
100. TWIN OAKS CT	