



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 Fort Worth Tarrant County Texas	NO PROJECT	FLOODWAY HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS UPDATED TOPOGRAPHIC DATA
	COMMUNITY NO.: 480596		
IDENTIFIER	Stream WF(A)-2 Watershed Study	APPROXIMATE LATITUDE & LONGITUDE: 32.776, -97.112 SOURCE: Other 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 PROFILES: 564P-565P, 565P(A)(NEW), 565P(B)(NEW), 565P(C)(NEW) FLOODWAY DATA TABLE: 7 SUMMARY OF DISCHARGES TABLE: 4	

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map

FLOODING SOURCES & REVISED REACHES

See Page 2 for Additional Flooding Sources

Stream WF(A)-2 - From confluence with West Fork Trinity River to approximately 1,000 feet upstream of Road to Six Flaps Street

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Stream WF(A)-2	BFEs*	BFEs	YES	YES
	Floodway	Floodway	YES	YES
	No Floodway	Floodway	YES	NONE
	Zone x (Unshaded)	Zone A	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 Mapping and Insurance 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 SOURCES & REVISED REACHES

Stream WF(A)-2 - From confluence with West Fork Trinity River to approximately 1,000 feet upstream of Road to Six Flags Street

Stream WF(A)-2 Tributary 1 - From Confluence with Stream WF(A)-2 to approximately 1,100 feet upstream of Van Buren Drive

Stream WF(A)-2 Tributary 1.1 - From Confluence with Stream WF(A)-2 Tributary 1 to approximately 1,300 feet upstream of confluence with Stream WF(A)-2 Tributary 1

Stream WF(A)-2 Tributary 1.2 - From Confluence with Stream WF(A)-2 Tributary 1 to approximately 300 feet upstream of confluence with Stream WF(A)-2 Tributary 1

Stream WF(A)-2 Tributary 1.3 - From Confluence with Stream WF(A)-2 Tributary 1 to approximately 2,900 feet upstream of confluence with Stream WF(A)-2 Tributary 1

Stream WF(A)-2 Tributary 1.3.1 - From Confluence with Stream WF(A)-2 Tributary 1.3 to approximately 500 feet upstream of confluence with Stream WF(A)-2 Tributary 1.3

Stream WF(A)-2 Tributary 1.4 - From Confluence with Stream WF(A)-2 Tributary 1 to approximately 820 feet upstream of confluence with Stream WF(A)-2 Tributary 1

Stream WF(A)-2 Tributary 2 - From Confluence with Stream WF(A)-2 to approximately 1,500 feet upstream of confluence with Stream WF(A)-2

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Stream WF(A)-2	Zone A	Zone AE	YES	NONE
	Zone AE	Zone AE	YES	YES
Stream WF(A)-2 Tributary 1	No BFEs	BFEs	YES	NONE
	No Floodway	Floodway	YES	NONE
	Zone X (unshaded)	Zone A	YES	NONE
	Zone A	Zone AE	YES	NONE
Stream WF(A)-2 Tributary 1.1	Zone X (unshaded)	Zone A	YES	NONE
Stream WF(A)-2 Tributary 1.2	Zone X (unshaded)	Zone A	YES	NONE
Stream WF(A)-2 Tributary 1.3	Zone X (unshaded)	Zone A	YES	NONE
Stream WF(A)-2 Tributary 1.3.1	Zone X (unshaded)	Zone A	YES	NONE
Stream WF(A)-2 Tributary 1.4	Zone X (unshaded)	Zone A	YES	NONE
Stream WF(A)-2 Tributary 2	Zone X (unshaded)	Zone A	YES	NONE

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LETTER OF MAP REVISION

OTHER COMMUNITIES AFFECTED BY THIS REVISION

CID Number: 485454 **Name:** City of Arlington, Texas

AFFECTED MAP PANELS

TYPE: FIRM* NO.: 48439C0240L DATE: March 21, 2019

AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT

DATE OF EFFECTIVE FLOOD INSURANCE STUDY
PROFILE(S): 564P-565P, 565P(A)(NEW), 565P(B)(NEW), 565P(C)(NEW)
FLOODWAY DATA TABLE: 7
SUMMARY OF DISCHARGES TABLE: 4

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 Mapping and Insurance 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.

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.

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 Mapping and Insurance 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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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 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 Mapping and Insurance 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: May 21, 2020 and May 28, 2020

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 Mapping and Insurance 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 4 – SUMMARY OF DISCHARGES

<u>FLOODING SOURCE AND LOCATION</u>	<u>DRAINAGE AREA (sq. mile)</u>	<u>PEAK DISCHARGES (CFS)</u>			
		10%- Annual Chance	2%- Annual Chance	1%- Annual Chance	0.2%- Annual Chance
STREAM WF(A)-2					
At confluence with West Fork Trinity River	2.46	3,690 ²	4,780 ²	5,320 ²	6,380 ²
Downstream of Green Oaks Boulevard	2.18	3,830 ²	5,010 ²	5,640 ²	6,910 ²
Upstream of Green Oaks Boulevard	1.91	3,960	5,570	6,340	7,930
At North Cooper Street	1.87	3,950 ²	5,620 ²	6,310 ²	7,910 ²
At Beady Road	1.80	4,050	5,790	6,610	8,110
At North Cooper Street	1.05	2,290	3,180	3,630	4,420
At Rocky Canyon Drive	0.83	1,810	2,460	2,790	3,420
At Wayland Drive	0.73	1,670	2,230	2,500	3,020
Downstream of Confluence with Tributary 2	0.63	1,450	1,910	2,150	2,600
Upstream of Confluence with Tributary 2	0.38	660	830	900	1,050
At Bridges Drive	0.33	550	630	660	750
STREAM WF(A)-2 TRIBUTARY 1					
Upstream of Confluence with Stream WF(A)-2	0.71	1,770	2,640	3,100 ²	3,910
Downstream of Confluence with Tributary 1.1	0.70	1,850	2,770	3,220	3,930
Downstream of Confluence with Tributary 1.2	0.57	1,830	2,370	2,750	3,410
Downstream of Confluence with Tributary 1.3	0.46	1,500	1,920	2,190	2,720
At Washington Drive	0.24	790	970	1,120	1,420

²Decreases due to storage routing effects

↑ **REVISED DATA**

**REVISED TO
REFLECT LOMR
EFFECTIVE: September 25, 2020**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD88) ²	WITHOUT FLOODWAY (FEET NAVD88) ³	WITH FLOODWAY (FEET NAVD88)	INCREASE (FEET)
Stream WF(A)-2								
A	4,307	365	1,542	4.0	478.2	478.4	478.6	0.2
B	5,412	162	732	8.7	484.9	484.6	485.5	0.9
C	6,534	72	640	10.0	492.6	492.5	493.5	1.0
D	7,695	106	1,032	6.2	498.3	498.5	499.1	0.6
E	8,891	96	635	5.7	503.8	504.0	504.3	0.3
F	9,774	58	457	7.8	507.5	507.9	508.1	0.2
G	10,756	44	310	9.4	516.8	516.9	516.9	0.0
H	11,967	53	364	7.5	526.4	526.2	527.0	0.8
I	12,861	55	465	5.3	533.0	533.2	533.9	0.7
J	13,268	52	445	5.6	538.2	538.1	538.7	0.6
K	13,718	52	358	2.5	540.8	541.9	541.9	0.0
L	14,409	36	128	5.2	546.3	546.3	546.4	0.1

↑
REVISED DATA

¹ Stream distance in feet above confluence with Stream WF(A)-2
² Elevation calculated using unsteady model
³ Elevation calculated using a calibrated steady-state floodway model

**REVISED TO
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EFFECTIVE: September 25, 2020**

TABLE 7	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	TARRANT COUNTY, TX AND INCORPORATED AREAS	STREAM WF(A)-2

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD88) ²	WITHOUT FLOODWAY (FEET NAVD88) ³	WITH FLOODWAY (FEET NAVD88)	INCREASE (FEET)
STREAM WF(A)-2 – TRIBUTARY 1								
A	416	130	824	3.8	503.3	503.8	504.2	0.4
B	895	64	453	7.1	503.8	504.1	504.7	0.6
C	1,532	51	355	8.1	509.7	509.7	509.7	0.0
D	2,425	48	298	8.0	516.6	516.5	517.1	0.6
E	3,094	72	381	3.1	525.1	524.8	524.9	0.1
F	4,041	57	241	4.7	532.2	532.2	532.3	0.1
					↑ REVISED DATA			

¹ Stream distance in feet above confluence with Stream WF(A)-2

² Elevation calculated using unsteady model

³ Elevation calculated using a calibrated steady-state floodway model

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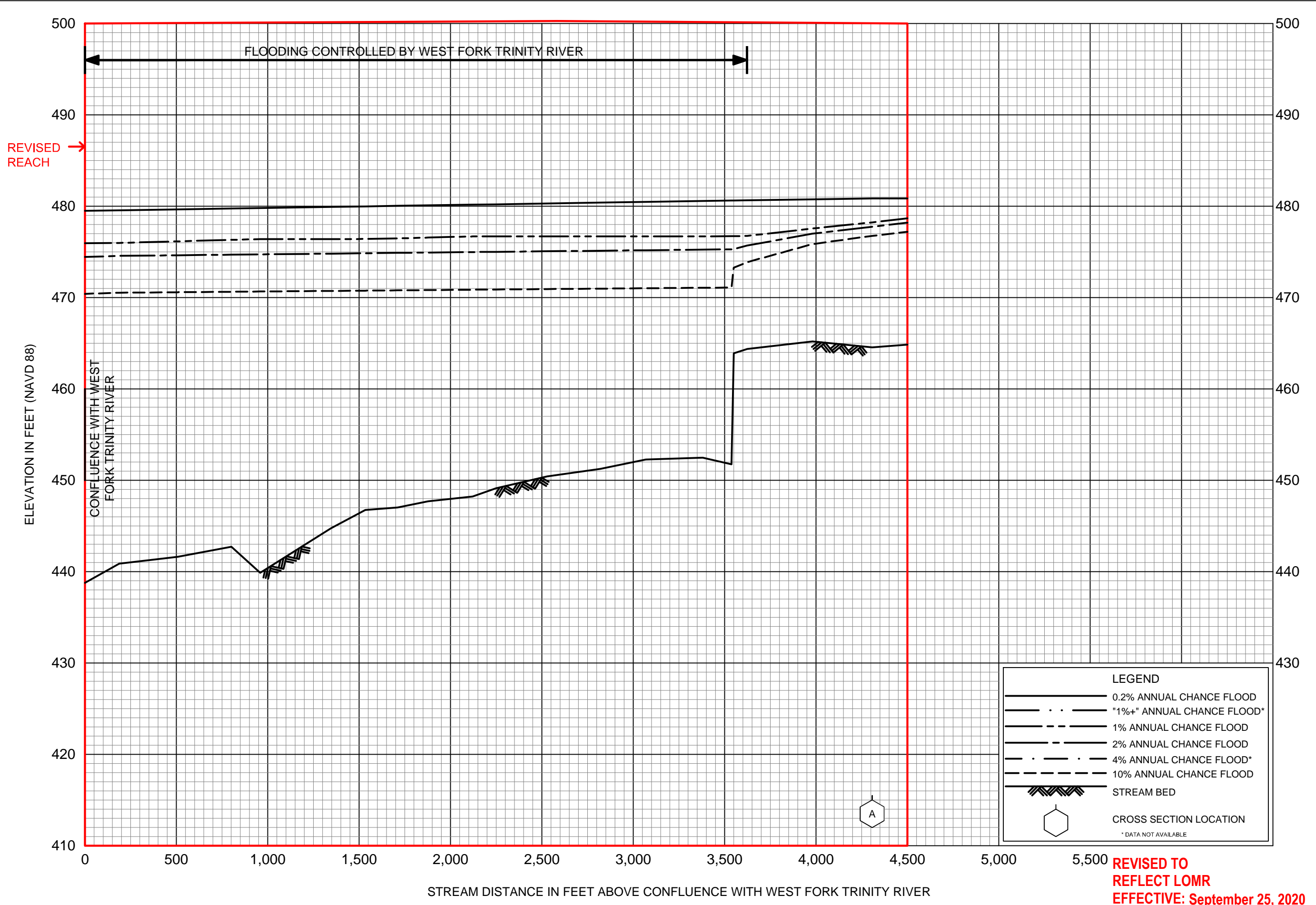
TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

**TARRANT COUNTY, TX
AND INCORPORATED AREAS**

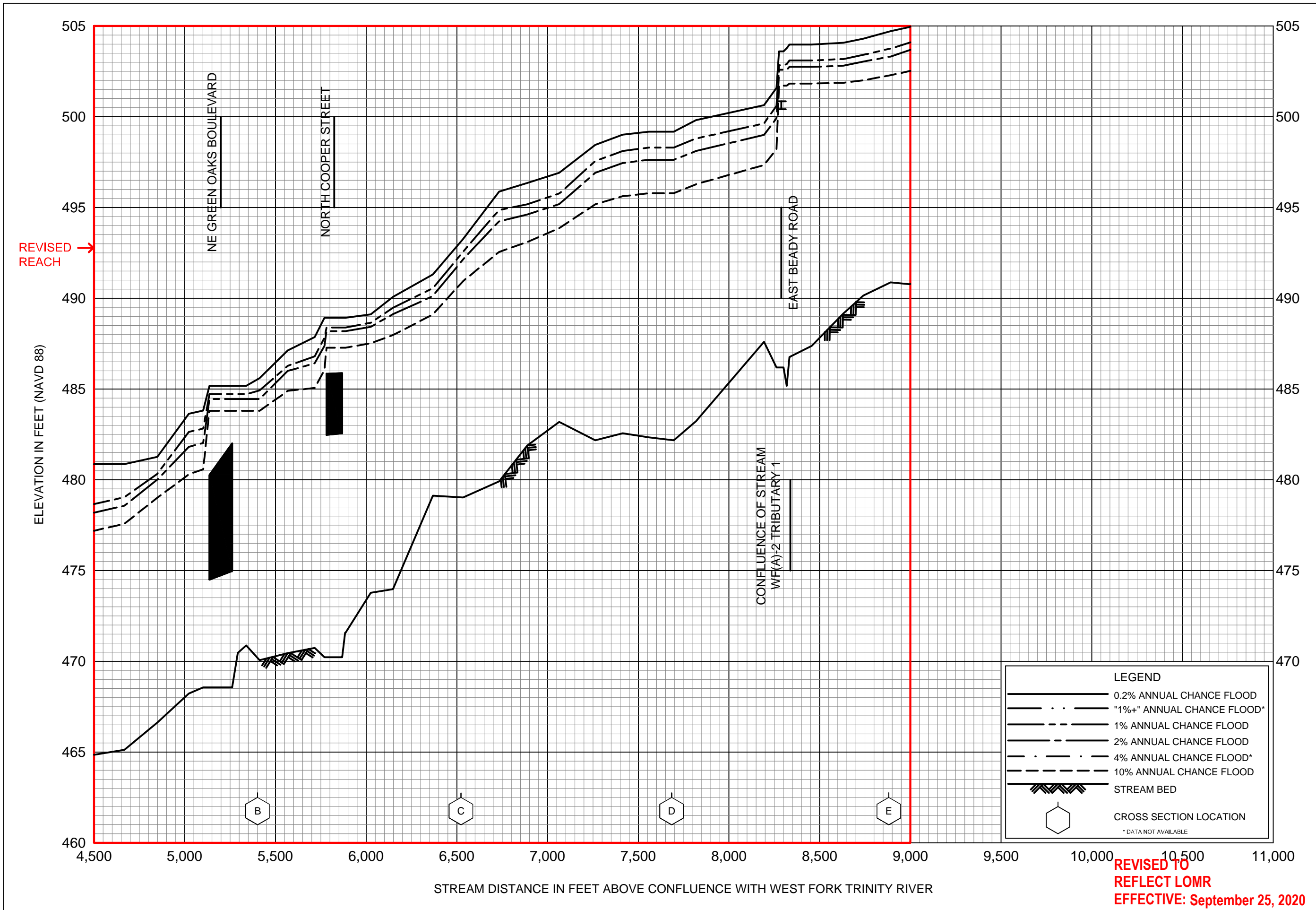
FLOODWAY DATA

STREAM WF(A)-2 – TRIBUTARY 1



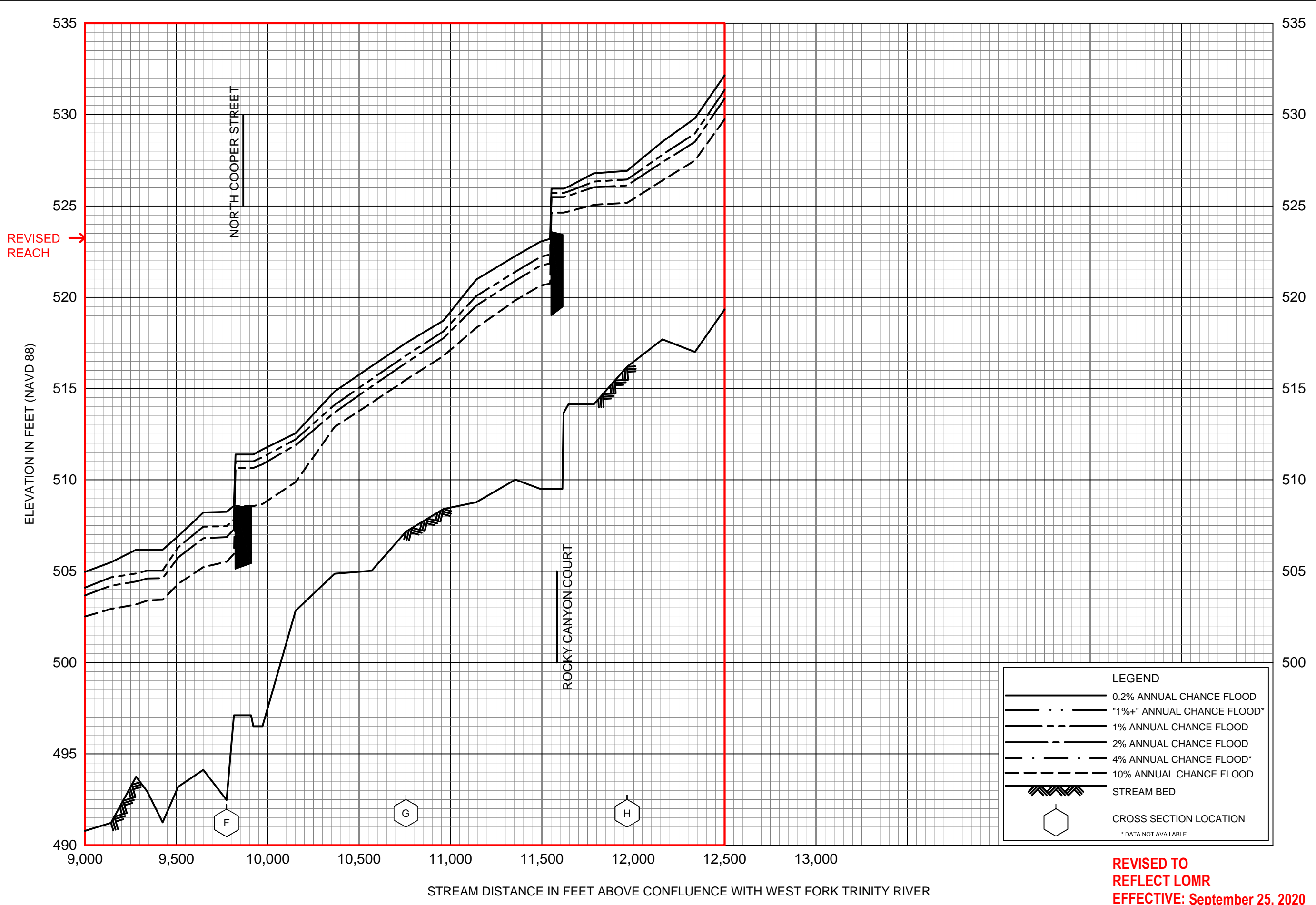
FLOOD PROFILES
STREAM WF(A)-2

FEDERAL EMERGENCY MANAGEMENT AGENCY
TARRANT COUNTY, TX
AND INCORPORATED AREAS



FLOOD PROFILES
STREAM WF(A)-2

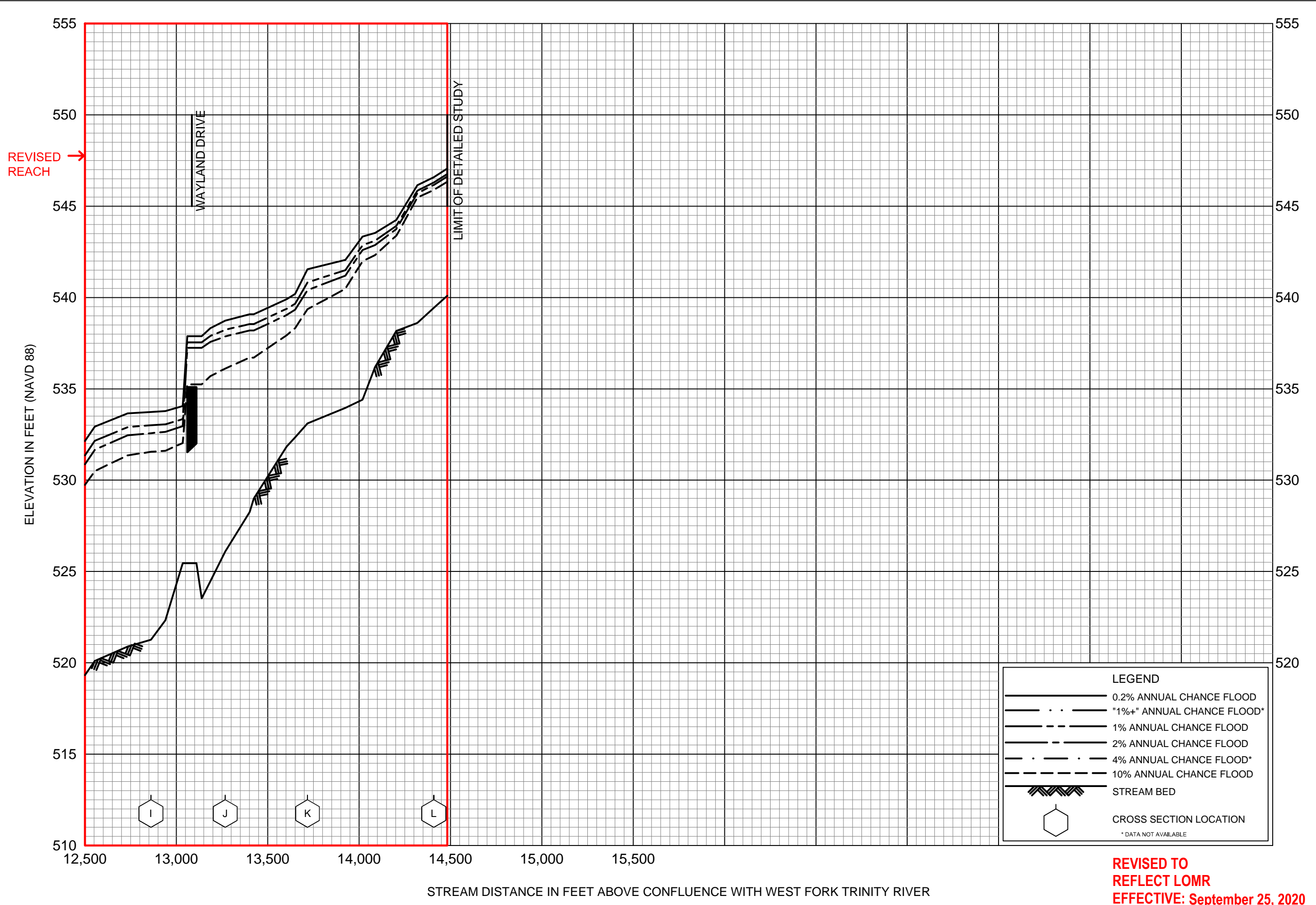
FEDERAL EMERGENCY MANAGEMENT AGENCY
TARRANT COUNTY, TX
AND INCORPORATED AREAS



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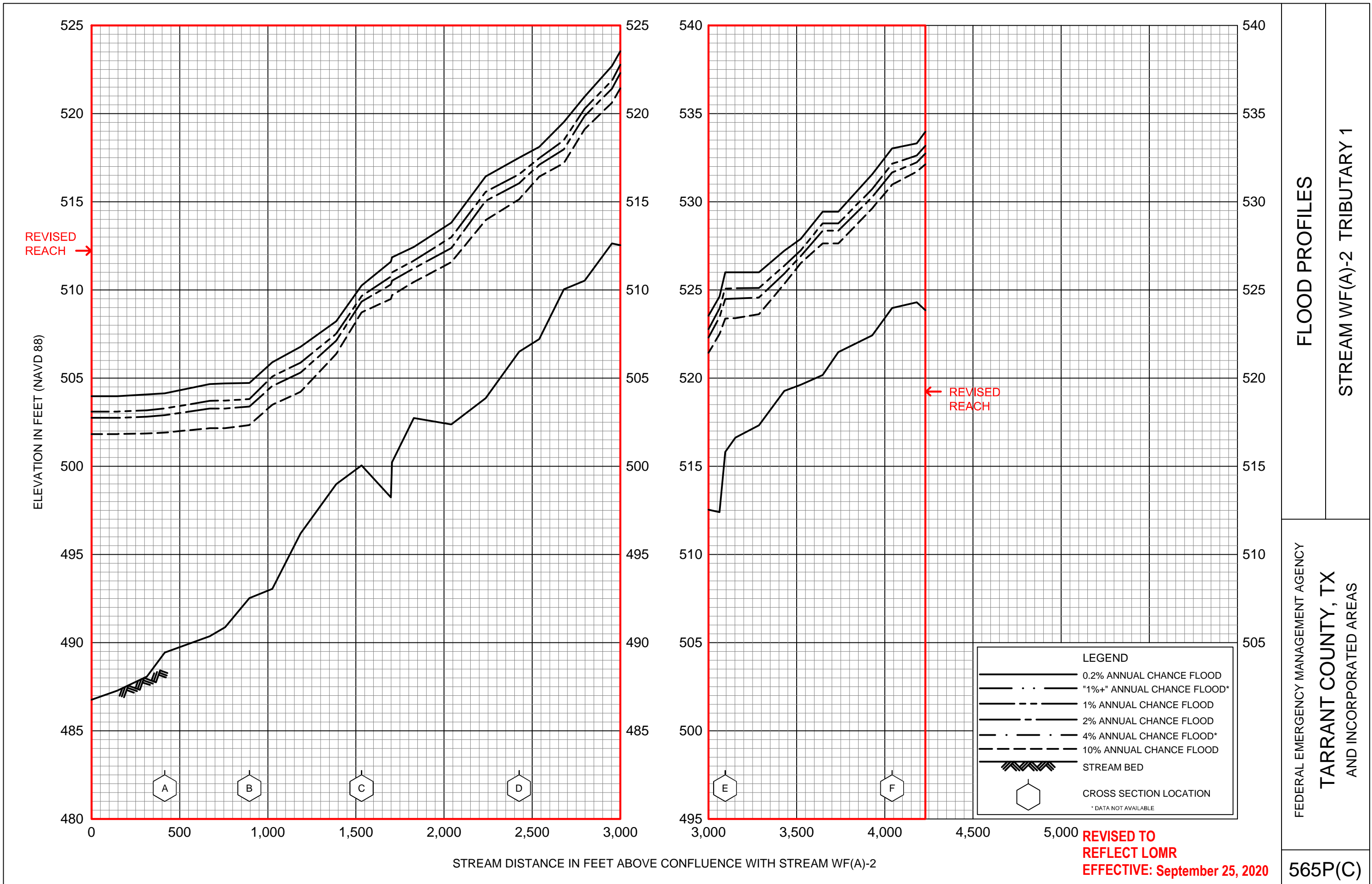
**FLOOD PROFILES
STREAM WF(A)-2**

FEDERAL EMERGENCY MANAGEMENT AGENCY
**TARRANT COUNTY, TX
AND INCORPORATED AREAS**



FLOOD PROFILES
STREAM WF(A)-2

FEDERAL EMERGENCY MANAGEMENT AGENCY
TARRANT COUNTY, TX
 AND INCORPORATED AREAS



KEY TO NUMBERED STREETS

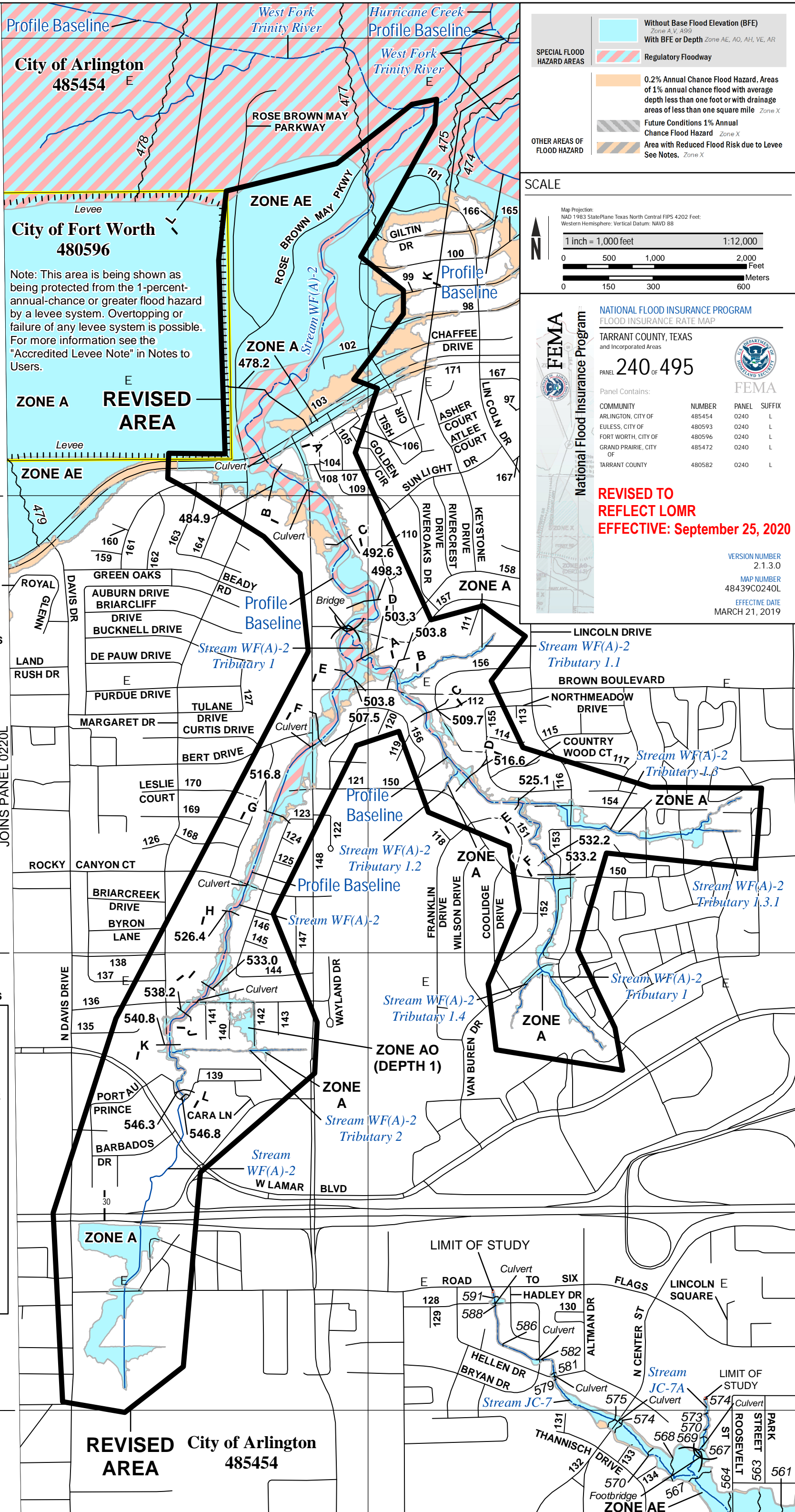
- 98. HINSDALE DR
- 99. WHISTLER DR
- 100. GUNNISON DR
- 101. PITKIN DR
- 102. GREEN OAKS CIR
- 103. GREEN OAKS CT
- 104. SILVER CREEK DR
- 105. COPPER CREEK DR
- 106. GOLD CREEK LN
- 107. PEBBLE WAY
- 108. COLUMBINE
- 109. RIVERVALLEY CT
- 110. SUNLIGHT CT
- 111. SOUTHBROOK CT
- 112. BERMUDA CT
- 113. NORTHMEADOW CT
- 114. WILLOWCREEK CT
- 115. HILLVIEW DR
- 116. COUNTRY GREEN CT
- 117. KYLE DR
- 118. FRANKLIN CT
- 119. BELFRY CT
- 120. BRADWOOD CT
- 121. ROCKGATE CT
- 122. ROYAL COLONNADE
- 123. STAFFORD DR
- 124. NASSAU CT
- 125. WYRICK CT

KEY TO NUMBERED STREETS

- 126. FIELD CREST CT
- 127. MILLIKIN DR
- 128. DEE LN
- 129. BATES CT
- 130. ALTMAN CIR
- 131. THANNISCH CT
- 132. N CENTER ST
- 133. AVONDALE CT
- 134. VONNER CT
- 135. VILLAGE WOOD CT
- 136. WAYLAND DR
- 137. ARLENA DR
- 138. ANITA DR
- 139. BRIDGES DR
- 140. SCARLETT CT
- 141. MCCARTNEY CT
- 142. CLEBURN DR
- 143. MOODY CT
- 144. STAFFORD DR
- 145. DELIA CT

KEY TO NUMBERED STREETS

- 146. BRIM CT
- 147. BOTTS DR
- 148. N COOPER ST
- 149. ROLLING HILLS TRL
- 150. WASHINGTON DR
- 151. FRANKLIN DR
- 152. ADAMS DR
- 153. PRESIDENTS CORNER DR
- 154. LINCOLN GREEN DR
- 155. COUNTRY GREEN
- 156. CROWN COLONY DR
- 157. E BEADY RD
- 158. ELDORO DR
- 159. ASCOTT CT
- 160. RICE CT
- 161. BALDWIN DR
- 162. BUTLER DR
- 163. CITADEL DR
- 164. EDINBORO DR
- 165. WHISTLER DR
- 166. GILTIN CT
- 167. STEAMBOAT CIR
- 168. PINEHURST AVE
- 169. SHELLEY DR
- 170. LESLIE DR
- 171. NE GREEN OAKS BLVD



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	480582	0240	L

REVISED TO REFLECT LOMR
EFFECTIVE: September 25, 2020

VERSION NUMBER: 2.1.3.0
MAP NUMBER: 48439C0240L
EFFECTIVE DATE: MARCH 21, 2019

REVISED AREA City of Arlington 485454