



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 Creede Mineral County Colorado | LEVEE | FLOODWAY 1D/2D HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS LEVEE CERTIFICATION UPDATED TOPOGRAPHIC DATA BASE MAP CHANGES |
| | COMMUNITY NO.: 080118 | | |
| IDENTIFIER | Willow Creek LOMR - Creede, CO | APPROXIMATE LATITUDE AND LONGITUDE: 37.853, -106.927 SOURCE: Other DATUM: NAD 83 | |
| ANNOTATED MAPPING ENCLOSURES | | ANNOTATED STUDY ENCLOSURES | |
| TYPE: FIRM* | NO.: 080118B DATE: January 1, 1986 | DATE OF EFFECTIVE FLOOD INSURANCE STUDY: N/A | |
| | | PROFILES: 01P-03P SUMMARY OF DISCHARGES TABLE: 1 FLOODWAY DATA TABLE: 2 | |

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map

FLOODING SOURCE AND REVISED REACH

See Page 2 for Additional Flooding Sources

Willow Creek - From approximately 2,440 feet downstream of East 7th Street to approximately 1,470 feet upstream of Wall Street

SUMMARY OF REVISIONS

| Flooding Source | Effective Flooding | Revised Flooding | Increases | Decreases |
|-----------------|--------------------|------------------|-----------|-----------|
| Willow Creek | No BFEs* | BFEs | YES | NONE |
| | Zone X (unshaded) | Zone AE | YES | NONE |
| | No Floodway | Floodway | YES | NONE |
| | Zone X (unshaded) | Zone X (shaded) | 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 <https://www.fema.gov/flood-insurance>.

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 AND REVISED REACH

Willow Creek - From approximately 2,440 feet downstream of East 7th Street to approximately 1,470 feet upstream of Wall Street

SUMMARY OF REVISIONS

| Flooding Source | Effective Flooding | Revised Flooding | Increases | Decreases |
|-----------------|--------------------|------------------|-----------|-----------|
| Willow Creek | Zone A | Zone AE | YES | YES |

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

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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 revision involves an accredited levee system. Your community is responsible for maintaining and disseminating information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, for the levee system(s) shown as providing protection. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and flood proofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA Website at <https://www.fema.gov/national-flood-insurance-program>.

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

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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:


Jeanine D. Petterson
Director, Mitigation Division
Federal Emergency Management Agency, Region VIII
Denver Federal Center, Building 710
P.O. Box 25267
Denver, CO 80225-0267
(303) 235 4830

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.

The corporate limits for your community have changed because of annexations. A portion of the revision area is shown on the above-referenced FIRM panel, 080118B, to be within the Unincorporated Areas of Mineral County; however, the City of Creede has annexed this area. We have reflected these corporate limits changes in this LOMR.

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


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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: *Mineral County Miner*

Dates: October 20, 2022, and October 27, 2022

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

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

Table 1: Summary of Discharges

| Flooding Source | Location | Drainage Area (Square Miles) | Peak Discharge (cfs) | | | | | |
|-----------------|--|------------------------------|----------------------|------------------|------------------|------------------|-----------------------|--------------------|
| | | | 10% Annual Chance | 4% Annual Chance | 2% Annual Chance | 1% Annual Chance | 1% Plus Annual Chance | 0.2% Annual Chance |
| Willow Creek | 7,200 feet upstream of Creede corporate limits | 35 | 540 | 759 | 943 | 1,140 | 1,460 | 1,680 |

**REVISED TO
REFLECT LOMR
EFFECTIVE: February 24, 2023**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER SURFACE ELEVATION | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|------------------------------------|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| | | | | | | FEET (NAVD88) | | |
| A | 7,460 | 20 | 55 | 20.7 | 8,756.2 | 8,756.2 | 8,756.2 | 0.0 |
| B | 7,538 | 20 | 66 | 17.3 | 8,760.3 | 8,760.3 | 8,760.3 | 0.0 |
| C | 9,537 | 24 | 75 | 15.2 | 8,805.1 | 8,805.1 | 8,805.1 | 0.0 |
| D | 9,611 | 22 | 80 | 14.3 | 8,806.7 | 8,806.7 | 8,806.7 | 0.0 |
| E | 10,640 | 19 | 61 | 18.7 | 8,825.4 | 8,825.4 | 8,825.4 | 0.0 |
| F | 10,700 | 22 | 64 | 17.8 | 8,827.5 | 8,827.5 | 8,827.5 | 0.0 |
| G | 11,631 | 22 | 67 | 17.0 | 8,851.5 | 8,851.5 | 8,851.5 | 0.0 |
| H | 12,442 | 19 | 57 | 20.0 | 8,870.3 | 8,870.3 | 8,870.3 | 0.0 |
| I | 12,512 | 28 | 104 | 11.0 | 8,877.1 | 8,877.1 | 8,877.1 | 0.0 |
| J | 12,572 | 103 | 666 | 1.7 | 8,879.2 | 8,879.2 | 8,879.2 | 0.0 |
| K | 12,609 | 104 | 273 | 4.2 | 8,880.1 | 8,880.1 | 8,880.2 | 0.1 |
| L | 12,702 | 82 | 356 | 3.2 | 8,880.4 | 8,880.4 | 8,880.5 | 0.1 |

¹ Stream distance in feet above City of Creede downstream corporate limits.

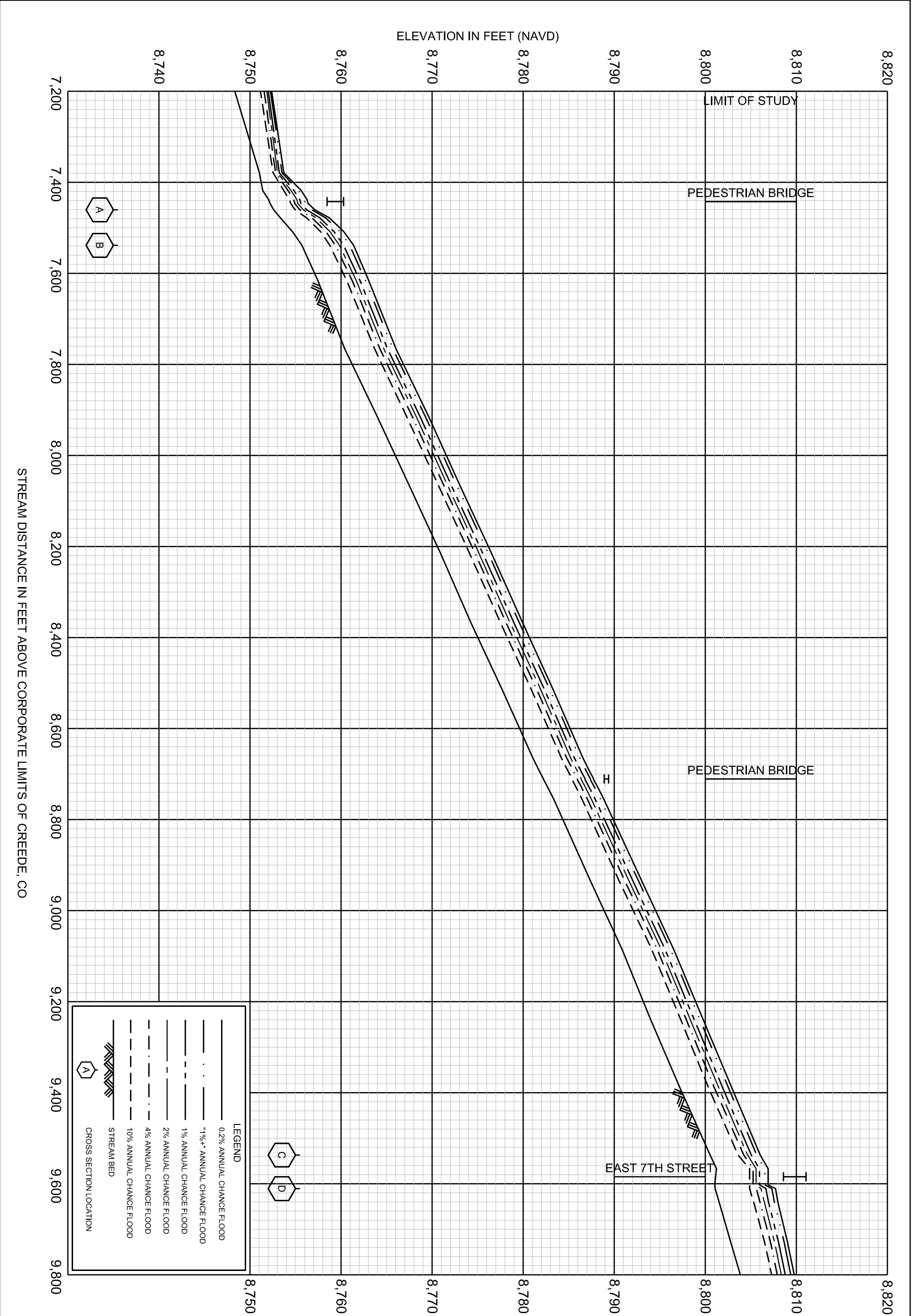
TABLE 2

FEDERAL EMERGENCY MANAGEMENT AGENCY
CITY OF CREEDE, CO
 MINERAL COUNTY

FLOODWAY DATA

REVISED TO
 REFLECT LOMR
 EFFECTIVE: February 24, 2023

WILLOW CREEK

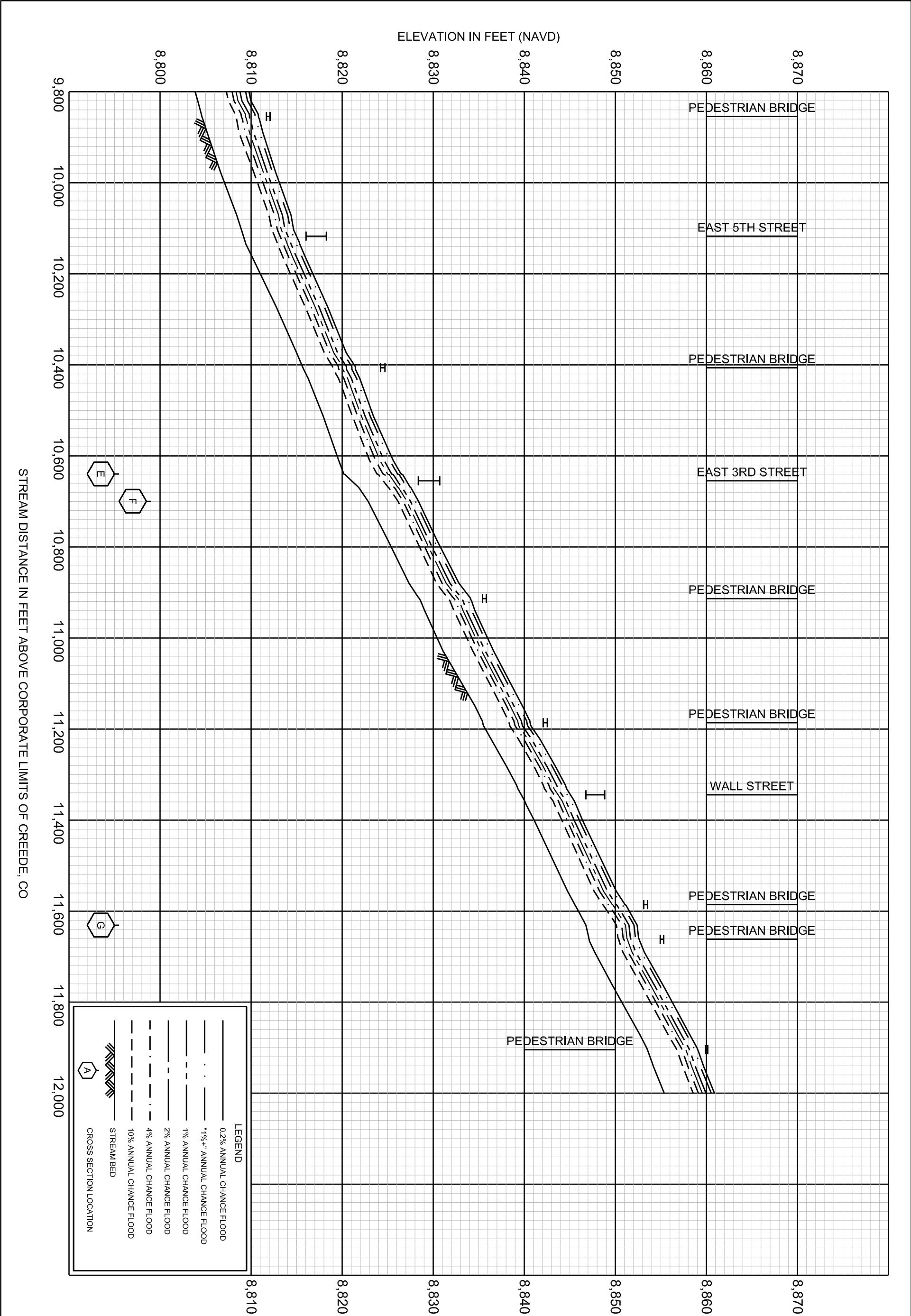


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FLOOD PROFILES

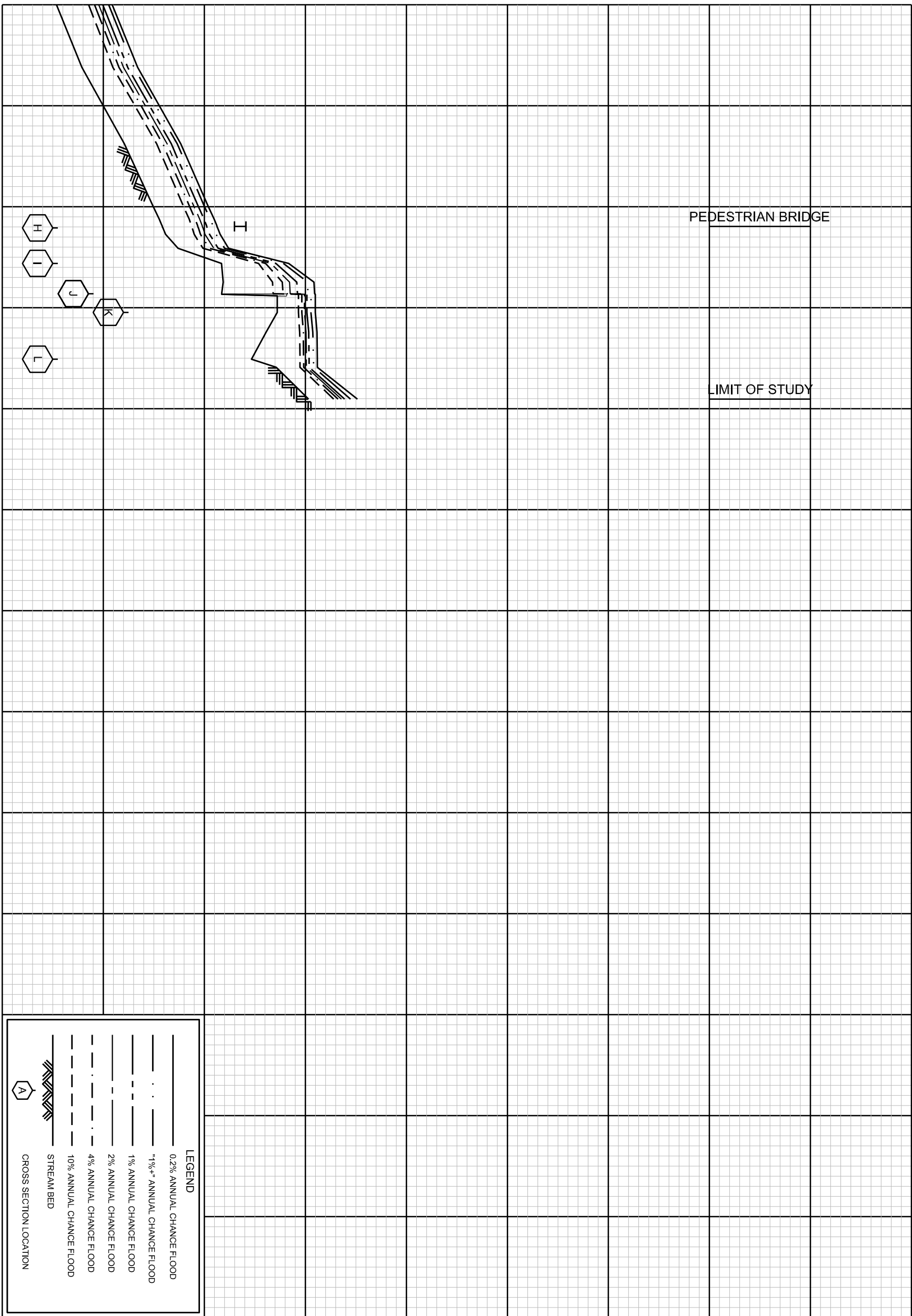
WILLOW CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
CITY OF CREEDE, CO
MINERAL COUNTY



ELEVATION IN FEET (NAVD)

8,850
12,000
12,200
12,400
12,600
12,800



PEDESTRIAN BRIDGE

LIMIT OF STUDY

LEGEND

- 0.2% ANNUAL CHANCE FLOOD
- - - 1% ANNUAL CHANCE FLOOD
- . - 2% ANNUAL CHANCE FLOOD
- - - 4% ANNUAL CHANCE FLOOD
- - - 10% ANNUAL CHANCE FLOOD
- STREAM BED
- ▲ CROSS SECTION LOCATION

STREAM DISTANCE IN FEET ABOVE CORPORATE LIMITS OF CREEDE, CO

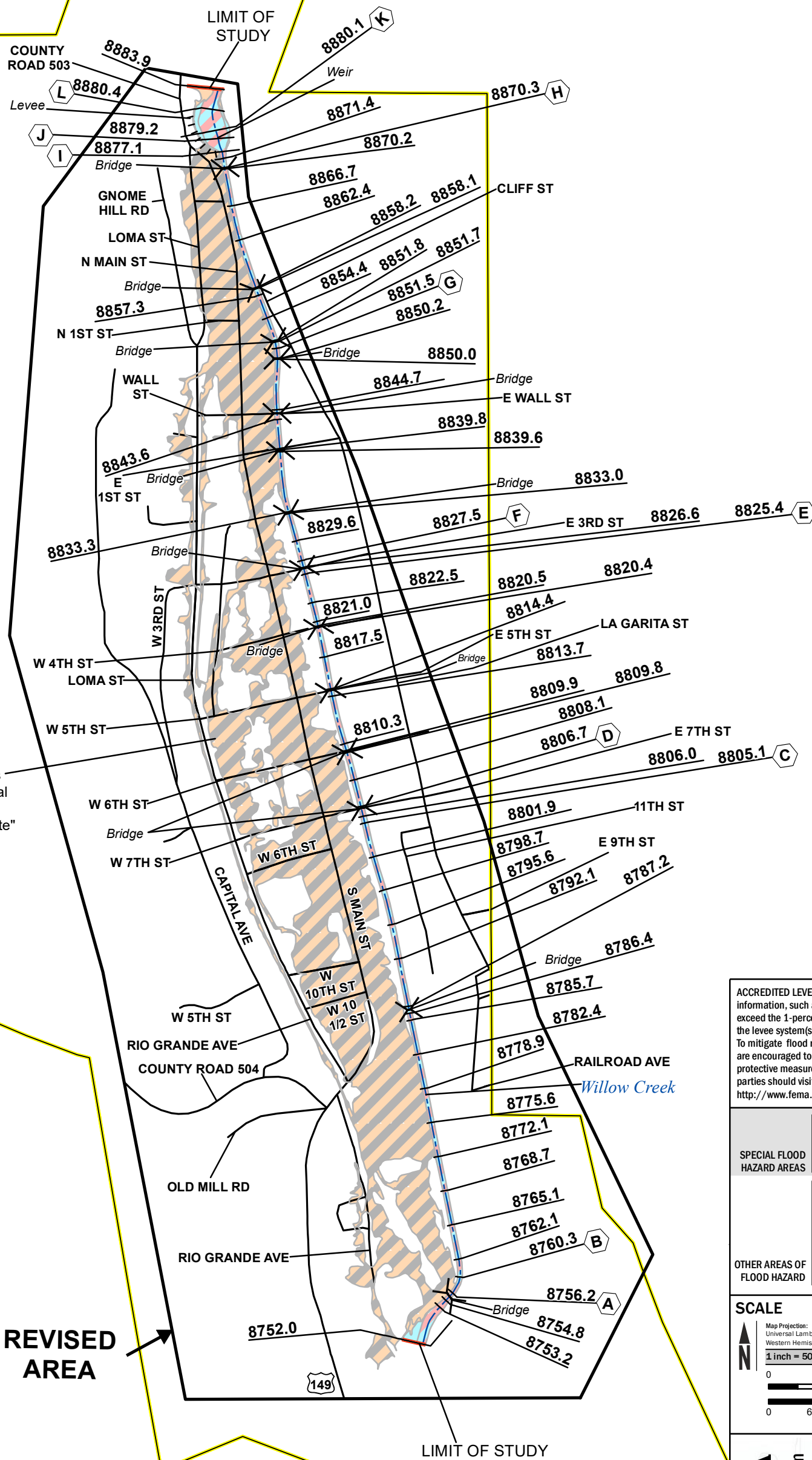
FEDERAL EMERGENCY MANAGEMENT AGENCY
CITY OF CREEDE, CO
MINERAL COUNTY

FLOOD PROFILES
WILLOW CREEK

REVISED TO
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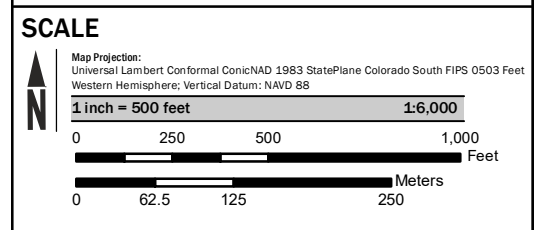
**City of
Creede
080118**

Note: This area is shown as being protected from the 1-percent-annual-chance or greater flood hazard by a levee system. Overtopping or failure of any levee system is possible. For additional information see the "Accredited Levee Note" in Notes to Users.



ACCREDITED LEVEE: Check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection for areas on this panel. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit <http://www.fema.gov/national-flood-insurance-program>.

| | | |
|-----------------------------|--|---|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i> |
| | | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i> |
| 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 <i>Zone X</i> |
| | | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i> |
| | | Area with Reduced Flood Risk due to Levee See Notes. <i>Zone X</i> |



FEDERAL EMERGENCY MANAGEMENT AGENCY

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

CITY OF CREEDE
MINERAL COUNTY, COLORADO

Panel Contains:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|-----------------|--------|-------|--------|
| CREEDE, CITY OF | 080118 | 01 | B |

REVISED TO REFLECT LOMR
EFFECTIVE: February 24, 2023

VERSION NUMBER
1.1.1.0

MAP NUMBER
080118B

EFFECTIVE DATE
JANUARY 1, 1986