

Follows Conditional Case No.: 09-08-0632R



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 and County of Denver Colorado	BRIDGE CHANNELIZATION EXCAVATION FILL	FLOODWAY HYDRAULIC ANALYSIS NEW TOPOGRAPHIC DATA
	COMMUNITY NO.: 080046		
IDENTIFIER	Upper Central Platte Valley	APPROXIMATE LATITUDE & LONGITUDE: 39.737, -105.018 SOURCE: Other DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM* NO.: 0800460182G DATE: November 17, 2005 TYPE: FIRM* NO.: 0800460069G DATE: November 17, 2005 TYPE: FIRM* NO.: 0800460184G DATE: November 17, 2005		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: November 17, 2005 PROFILES: 14P, 24P, 74P, 91P, & 92P DELETED PROFILES: 98P FLOODWAY DATA TABLE: 3 SUMMARY OF DISCHARGES TABLE: 2	

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map; ** FBFM - Flood Boundary and Floodway Map; *** FHBM - Flood Hazard Boundary Map

FLOODING SOURCE(S) & REVISED REACH(ES)

See Page 2 for Additional Flooding Sources

South Platte River - from approximately 320 feet downstream of North Speer Boulevard to approximately 500 feet upstream of West 3rd Avenue

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
South Platte River	Zone AE	Zone AE	YES	YES
	Zone X (shaded)	Zone X (shaded)	YES	YES
	Zone AE	Zone AH	YES	NONE
	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 (FMIX) 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>.

Erin E. Cobb, CFM, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration



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Washington, D.C. 20472

**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCE(S) & REVISED REACH(ES)

South Platte River - from approximately 320 feet downstream of North Speer Boulevard to approximately 500 feet upstream of West 3rd Avenue
Lakewood Gulch - from the confluence with the South Platte River to approximately 220 feet upstream
Lakewood Gulch Overflow - from the confluence with the South Platte River to approximately 780 feet upstream
Weir Gulch - from the confluence with the South Platte River to approximately 870 feet upstream
Sloans Lake - from the confluence with the South Platte River to approximately 770 feet upstream

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
South Platte River	BFEs*	BFEs	NONE	YES
Lakewood Gulch	Floodway	Floodway	YES	NONE
	BFEs	BFEs	NONE	YES
Lakewood Gulch Overflow	Floodway	Floodway	YES	YES
	Zone AE	Zone AE	NONE	YES
	Zone X (shaded)	Zone X (shaded)	NONE	YES
Weir Gulch	BFEs	BFEs	NONE	YES
	Floodway	Floodway	YES	NONE
	Zone AE	Zone AE	YES	NONE
	BFEs	BFEs	NONE	YES
Sloans Lake	Zone A	Zone A	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 (FMIX) 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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Federal Emergency Management Agency

Washington, D.C. 20472

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 base (1-percent-annual-chance) flood discharges computed in the FIS for your community without considering subsequent changes in watershed characteristics that could increase flood discharges. Future development of projects upstream could cause increased flood discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on flood discharges subsequent to the publication of the FIS report for your community and could, therefore, establish greater flood hazards 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 (FMIX) 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>.

Handwritten signature of Erin E. Cobb in cursive.

Erin E. Cobb, CFM, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration



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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

This revision has met our criteria for removing an area from the base floodplain to reflect the placement of fill. However, we encourage you to require that the lowest adjacent grade and lowest floor (including basement) of any structure placed within the subject area be elevated to or above the Base Flood Elevation.

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

STATUS OF THE COMMUNITY NFIP MAPS

We are processing a revised FIRM and FIS report for the City and County of Denver in our countywide format; therefore, we will not physically revise and republish the FIRM and FIS report for your community to incorporate the modifications made by this LOMR at this time. Preliminary copies of the countywide FIRM and FIS report, which present information from the effective FIRMs and FIS reports for your community, were submitted to your community for review on March 15, 2012. We will incorporate the modifications made by this LOMR into the countywide FIRM and FIS report before they become effective.

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 (FMIX) 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 cursive script that reads "Erin E. Cobb".

Erin E. Cobb, CFM, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration



Federal Emergency Management Agency
Washington, D.C. 20472

**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: *The Denver Post*

Dates: August 10, 2012 and August 17, 2012

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 (FMIX) 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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Erin E. Cobb, CFM, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration

Table 2. Summary of Discharges (Cont'd)

<u>Flooding Source and Location</u>	<u>Drainage Area (Sq. 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>
Sanderson Gulch					
At South Sheridan Boulevard (State Highway 95)	5.3	1,030	1,400	1,550	1,900
At West South Platte River Drive	7.6	1,650	2,200	2,450	3,000
Weir Gulch					
At Mouth	-- ¹	1,850	2,340	2,530	3,190
First Avenue Tributary					
At Mouth	1.5	410	670	740	1,030
Dakota Avenue Tributary					
At Mouth	0.7	200	300	355	465
Sand Creek					
Downstream of Confluence with Westerly Creek	184.0	10,000	22,400	30,000	33,000
Sand Creek Overflow					
1,030 Feet Above Confluence with Sand Creek	-- ¹	-- ¹	3,948	7,770	9,394
South Platte River (Main Channel Only)					
At West Dartmouth Avenue	-- ¹	6,400	12,700	16,500	31,500
At Alameda Avenue	-- ¹	7,550	15,000	19,200	31,500
At 15 th Street	-- ¹	9,700	17,600	22,300	35,000
Westerly Creek					
At Mouth	-- ¹	3,680	5,780	6,790	9,150
At Colfax Avenue	-- ¹	570	870	1,000	1,320
Westerly Creek Overflow					
At Confluence with Westerly Creek	-- ¹	-- ¹	-- ¹	471	-- ¹
South Monaco Street Parkway Overflow					
At Intersection of South Monaco Street Parkway and Florida Avenue	-- ¹	24	158	262	456

**DATA REVISED
BY LOMR
EFFECTIVE
OCTOBER 5,
2012**

**REVISED
DATA**

¹Data Not Available

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REFLECT LOMR
EFFECTIVE: December 17, 2012**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
South Platte River A ² -AO ²								
AP	125,953	268	2335	8.3	5186.0	5186.0	5186.0	0.0
AQ	126,771	336	2847	6.8	5186.9	5186.9	5186.9	0.0
AR	127,558	313	2743	7.1	5187.5	5187.5	5187.5	0.0
AS	128,108	300	2654	7.3	5187.9	5187.9	5187.9	0.0
AT	129,121	259	2291	8.5	5188.4	5188.4	5188.4	0.0
AU	129,893	215	2123	9.1	5189.2	5189.2	5189.2	0.0
AV	130,338	153	1489	13.0	5189.8	5189.8	5189.8	0.0
AW	130,563	164	1594	12.1	5191.2	5191.2	5191.2	0.0
AX	131,218	156	1801	10.7	5192.9	5192.9	5192.9	0.0
AY	131,467	149	1700	11.4	5193.4	5193.4	5193.4	0.0
AZ	131,617	142	1668	11.6	5193.5	5193.5	5193.5	0.0
BA	132,553	137	1608	11.9	5196.0	5196.0	5196.0	0.0
BB	132,672	142	2149	8.9	5197.2	5197.2	5197.2	0.0
BC	133,037	220	2610	7.4	5198.1	5198.1	5198.1	0.0
BD	133,459	164	1753	11.0	5198.1	5198.1	5198.1	0.0
BE	133,859	171	1869	10.3	5198.5	5198.5	5198.5	0.0
BF	134,114	196	1916	10.0	5198.9	5198.9	5198.9	0.0
BG	134,507	196	1933	9.9	5199.5	5199.5	5199.5	0.0
BH	135,285	165	1933	9.9	5200.7	5200.7	5200.7	0.0
BI	135,412	182	2101	9.1	5201.1	5201.1	5201.1	0.0
BJ	135,807	156	1668	11.5	5203.3	5203.3	5203.3	0.0
BK	136,340	202	1974	9.7	5204.7	5204.7	5204.7	0.0

¹ Feet above Adams/Weld county line

² Floodway not determined

**REVISED TO
REFLECT LOMR**

EFFECTIVE: December 17, 2012

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FEDERAL EMERGENCY MANAGEMENT AGENCY

**CITY AND COUNTY OF
DENVER, CO**

FLOODWAY DATA

SOUTH PLATTE RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
South Platte River (Cont'd)								
BL	136,922	157	2249	8.5	5,206.1	5206.1	5206.1	0.0
BM	137,112	181	2527	7.6	5,207.6	5207.6	5207.6	0.0
BN	137,566	199	2589	7.4	5,208.0	5208.0	5208.0	0.0
BO	138,335	214	2134	9.0	5,208.4	5208.4	5208.4	0.0
BP	138,838	179	1993	9.6	5,209.0	5209.0	5209.0	0.0
BQ	139,104	181	1492	14.7	5,210.5	5210.5	5210.5	0.0
BR	139,669	154	4191	10.6	5,214.2	5214.2	5214.2	0.0
BS	139,914	195	6812	10.1	5,215.7	5215.7	5215.7	0.0
BT ² -DJ ²								

**REVISED TO
REFLECT LOMR
EFFECTIVE: December 17, 2012**

¹ Feet above Adams/Weld county line

² Floodway not determined

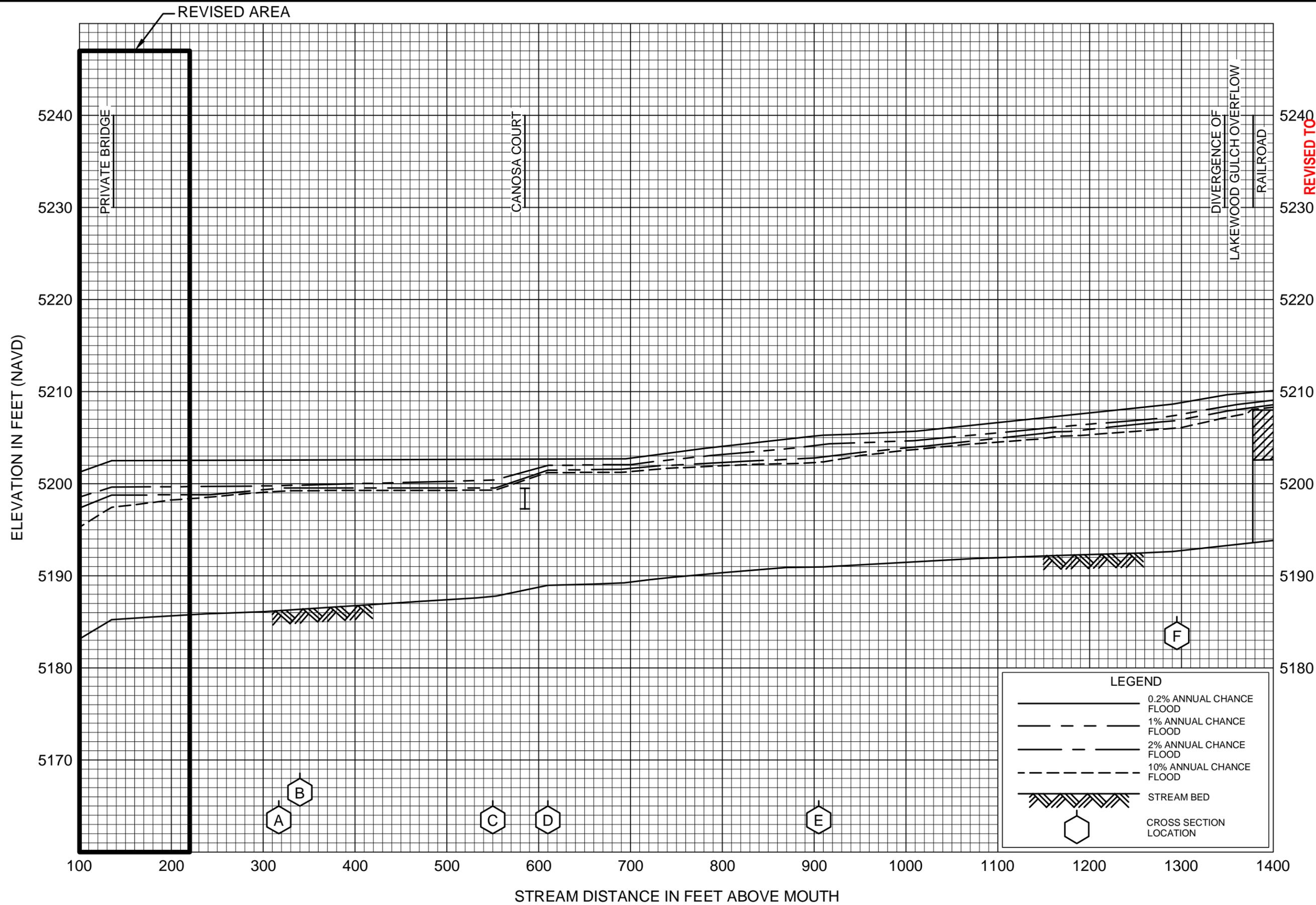
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FEDERAL EMERGENCY MANAGEMENT AGENCY

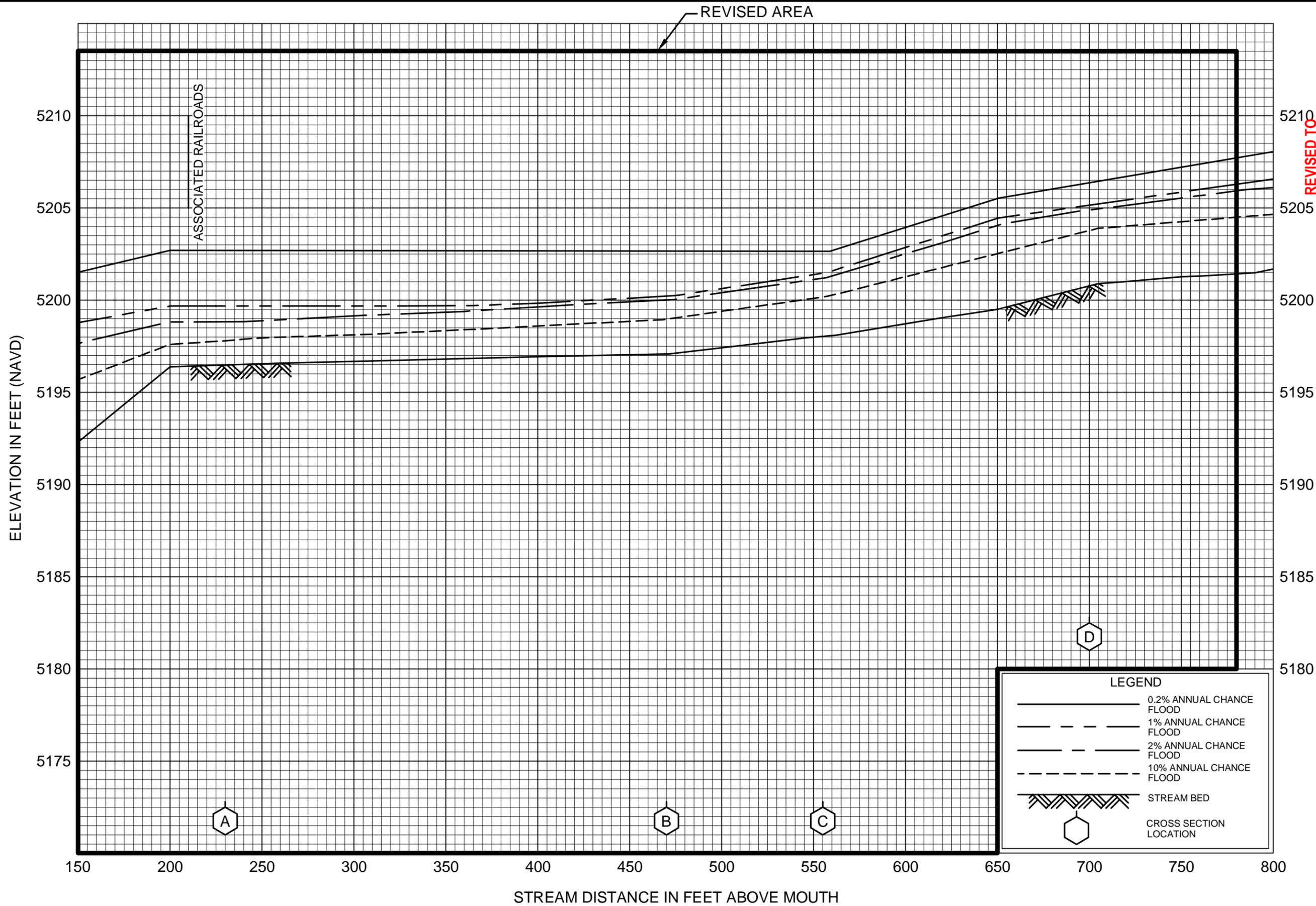
**CITY AND COUNTY OF
DENVER, CO**

FLOODWAY DATA

SOUTH PLATTE RIVER



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 FEDERAL EMERGENCY MANAGEMENT AGENCY
 CITY AND COUNTY OF DENVER, COLORADO
 FLOOD PROFILES
 LAKEWOOD GULCH
 14P

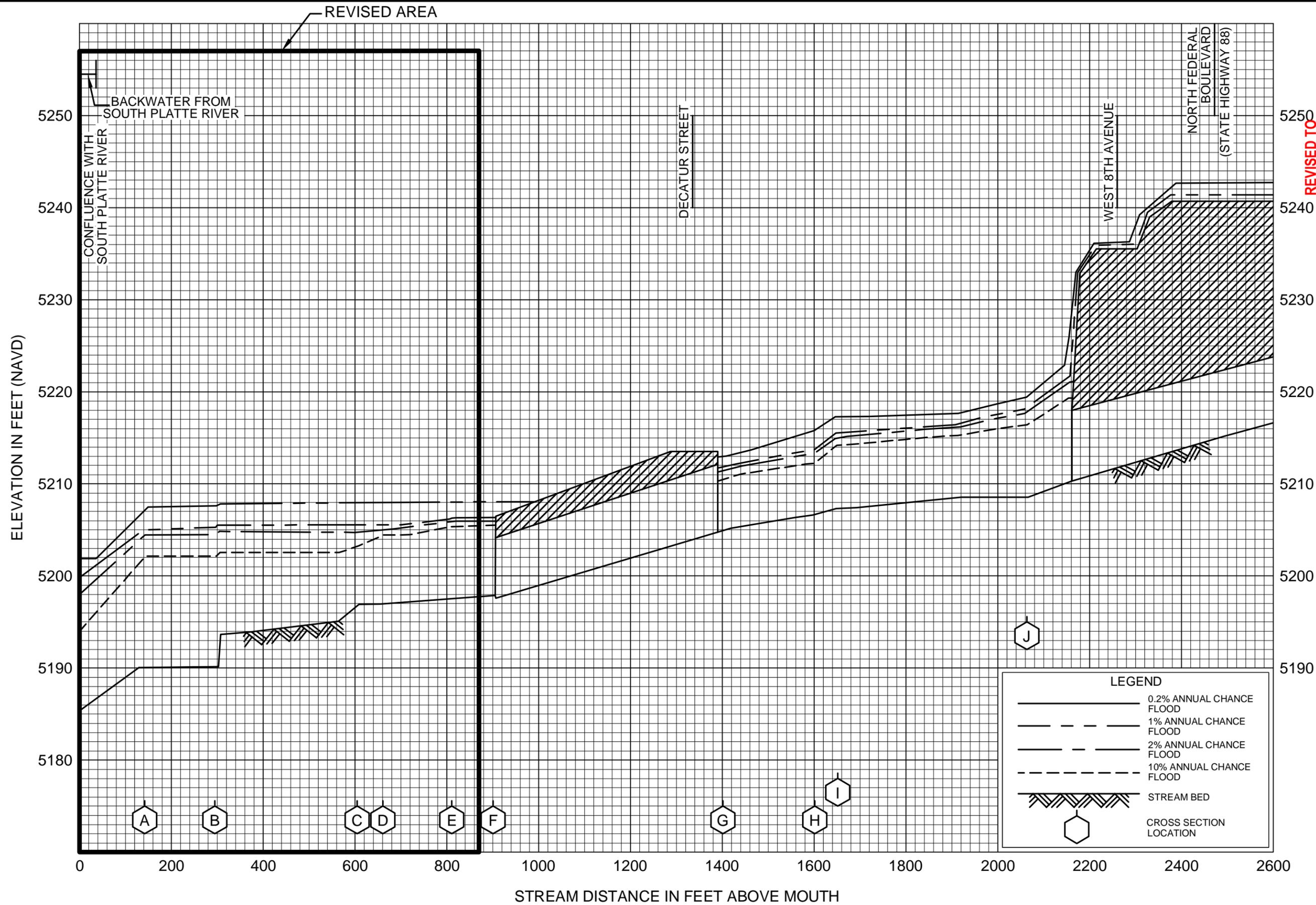


FEDERAL EMERGENCY MANAGEMENT AGENCY
 CITY AND COUNTY OF DENVER, COLORADO

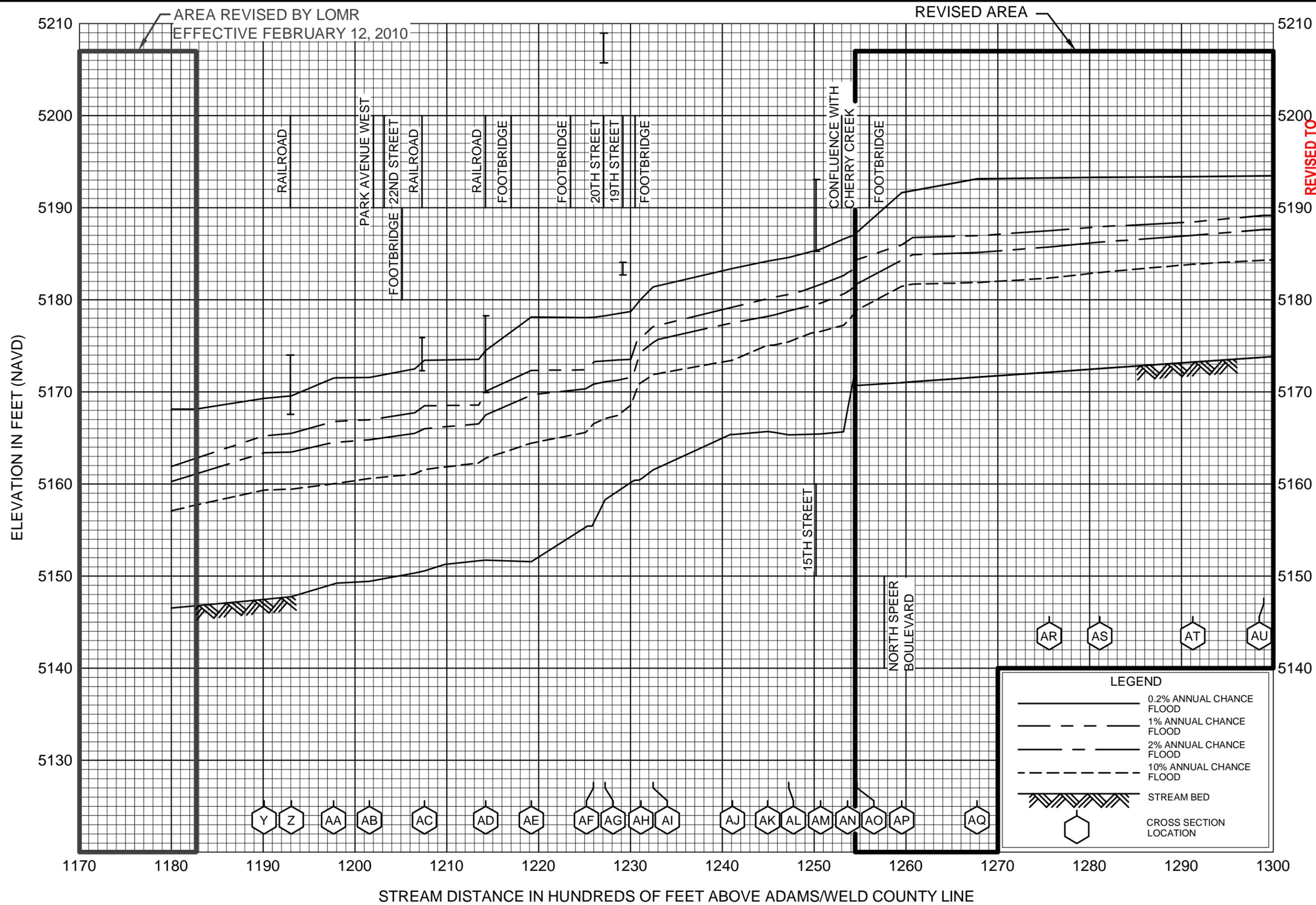
FLOOD PROFILES
 LAKWOOD GULCH OVERFLOW

REVISED TO REFLECT LOMR EFFECTIVE: December 17, 2012

24P



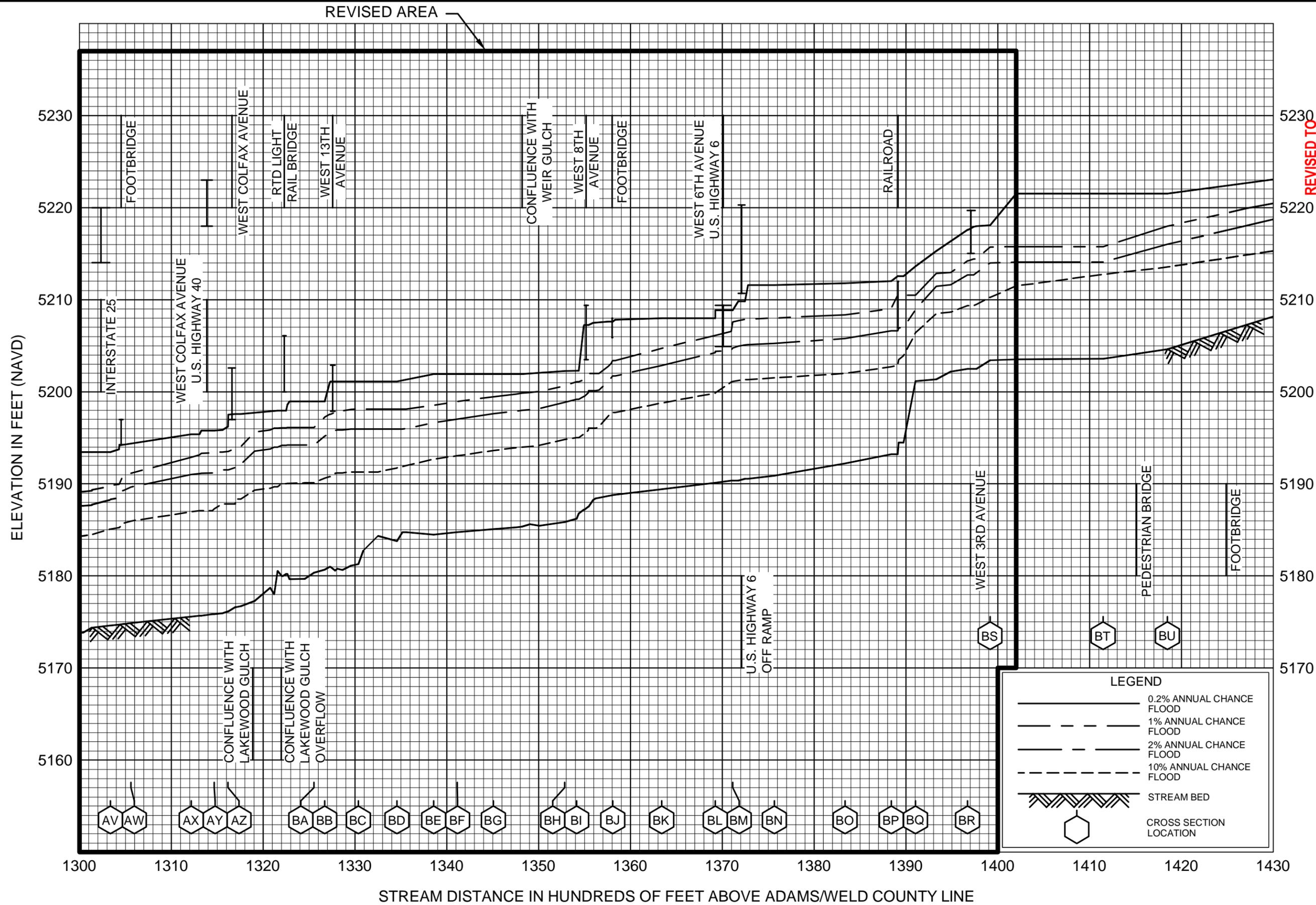
REVISED TO REFLECT LOMR EFFECTIVE: December 17, 2012
 FEDERAL EMERGENCY MANAGEMENT AGENCY
 CITY AND COUNTY OF DENVER, COLORADO
 WEIR GULCH
 FLOOD PROFILES



REVISED TO
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FEDERAL EMERGENCY MANAGEMENT AGENCY
CITY AND COUNTY OF DENVER, COLORADO

SOUTH PLATTE RIVER



REVISED TO REFLECT LOMR EFFECTIVE: December 17, 2012

FLOOD PROFILES

SOUTH PLATTE RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY
CITY AND COUNTY OF DENVER, COLORADO

92P

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables shown on this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Floodway Data table shown on this FIRM.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 13. The **horizontal datum** was NAD 83, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, NINCS 12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was derived from U.S. Geological Survey Digital Orthophoto Quadrangles produced at a scale of 1:12,000 from photography dated 1998 or later.

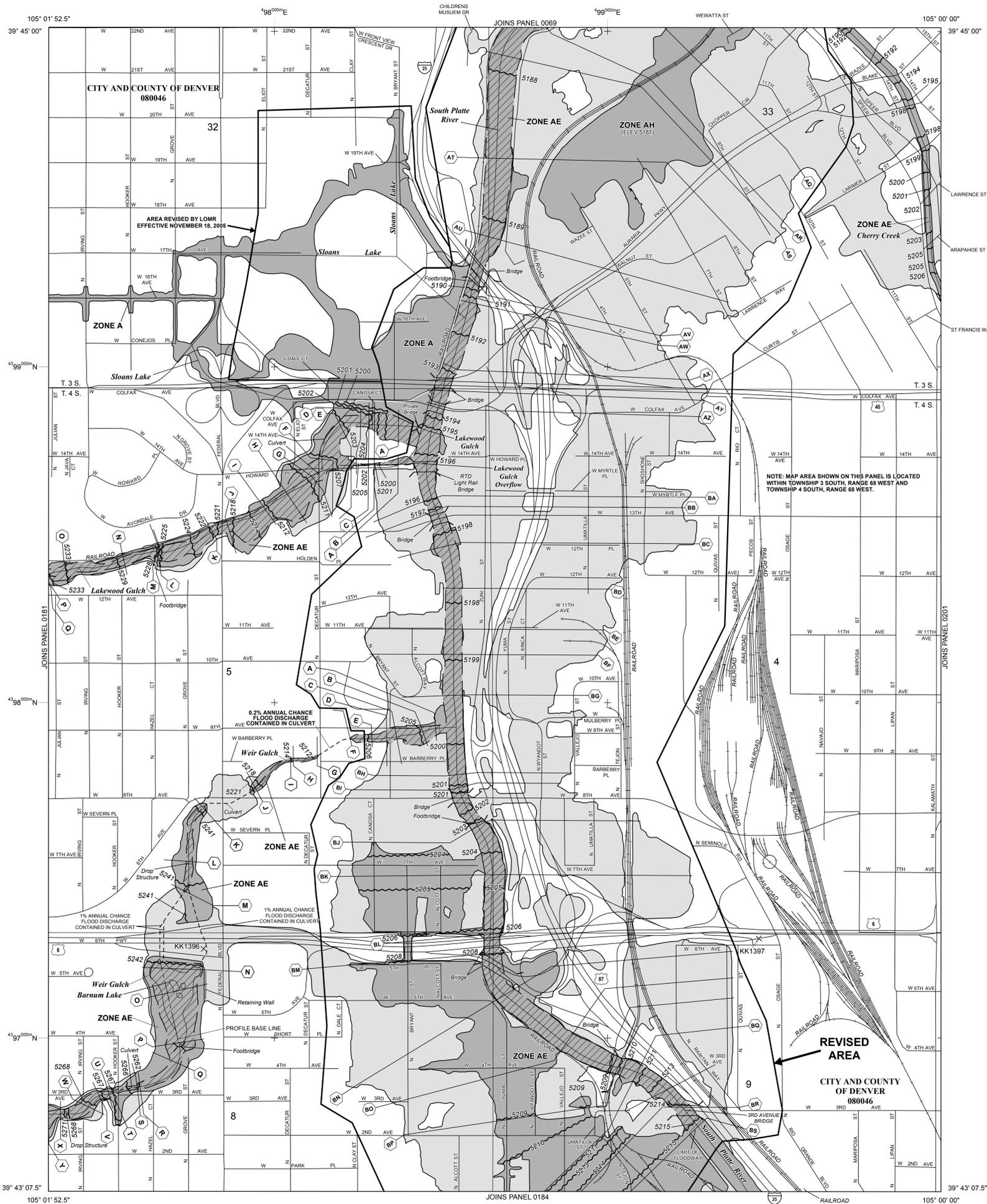
This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables to conform for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county, showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at <http://msc.fema.gov>.

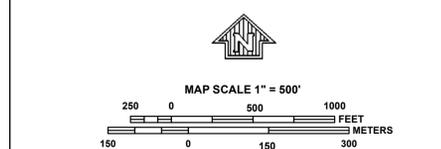
If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/nfip/>.



LEGEND

- SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, A9V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.
- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decretted. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE A9V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.
- FLOODWAY AREAS IN ZONE AE. The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.
- OTHER FLOOD AREAS.
- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
- OTHER AREAS.
- ZONE D** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS.
- OTHERWISE PROTECTED AREAS (OPAs). CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
- 1% Annual Chance Floodplain Boundary.
- 0.2% Annual Chance Floodplain Boundary.
- Floodway Boundary.
- Zone D Boundary.
- CBRS and OPA Boundary.
- Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, Flood depths or flood velocities.
- Base Flood Elevation line and value; elevation in feet*.
- Base Flood Elevation value where uniform within zone; elevation in feet*.

- *Referenced to the North American Vertical Datum of 1988.
- Cross section line.
- Transect line.
- 45° 02' 08", 93° 02' 12" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere.
- 4960000 N 1000-meter Universal Transverse Mercator grid values, zone 13N.
- Bench mark (see explanation in Notes to Users section of this FIRM panel).
- River Mile.
- MAP REPOSITORIES**
Refer to Map Repositories list on Map Index.
INITIAL IDENTIFICATION
DECEMBER 28, 1975
FLOOD HAZARD BOUNDARY MAP REVISIONS
APRIL 15, 1977
FLOOD INSURANCE RATE MAP EFFECTIVE
APRIL 15, 1986
FLOOD INSURANCE RATE MAP REVISIONS
SEPTEMBER 28, 1990 AUGUST 3, 1992 APRIL 16, 1993 MARCH 4, 1996 SEPTEMBER 7, 1998
NOVEMBER 17, 2005: to update corporate limits, to change special flood hazard areas, to update map format, to add roads and road names, to add special flood hazard areas dated August 16, 1995 from Adams County, Colorado, to reflect updated topographic information, and to incorporate previously issued letters of map revision.
- To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0182G

FIRM
FLOOD INSURANCE RATE MAP
CITY AND COUNTY OF DENVER, COLORADO

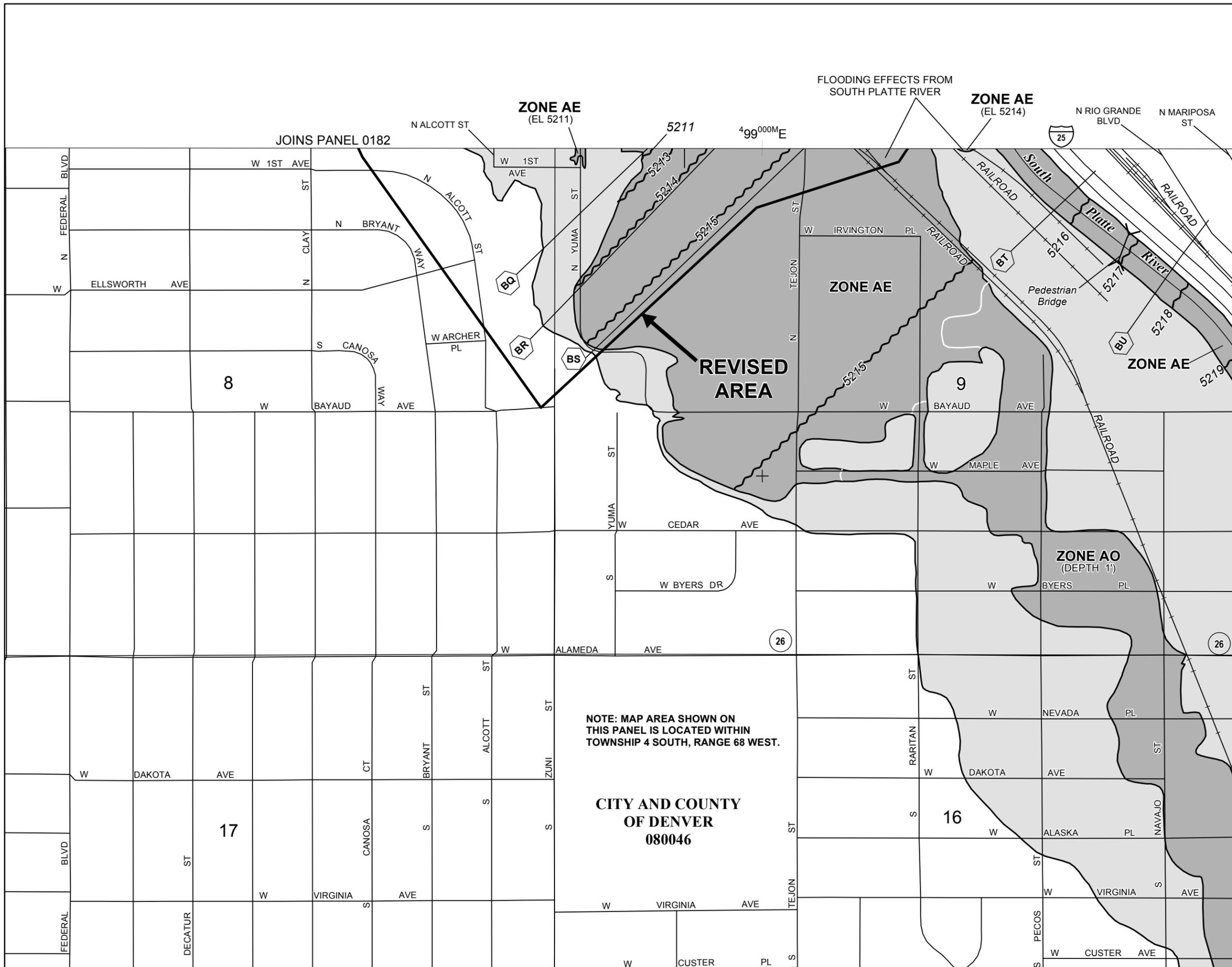
PANEL 182 OF 300
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
COMMUNITY NUMBER PANEL SUFFIX
CITY AND COUNTY OF DENVER 080046 0182 G

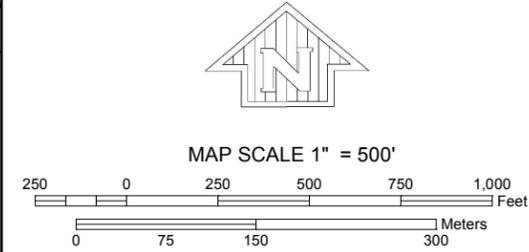
REVISED TO REFLECT LOMR EFFECTIVE: December 17, 2012

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER 0800460182G
MAP REVISED: NOVEMBER 17, 2005
Federal Emergency Management Agency



- Legend**
- 1% annual chance (100-Year) Floodplain
 - 1% annual chance (100-Year) Floodway
 - 0.2% annual chance (500-Year) Floodplain



NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 4 SOUTH, RANGE 68 WEST.

CITY AND COUNTY OF DENVER
080046

PANEL 0184G

FIRM
FLOOD INSURANCE RATE MAP
CITY AND COUNTY OF DENVER, COLORADO

PANEL 184 OF 300
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
COMMUNITY NUMBER PANEL SUFFIX
DENVER, CITY AND COUNTY OF 080046 0184 G

REVISED TO REFLECT LOMR EFFECTIVE: December 17, 2012

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER 0800460184G

MAP REVISED: NOVEMBER 17, 2005

Federal Emergency Management Agency