

NOTICE OF PUBLIC HEARING THE CITY OF SAN FERNANDO PLANNING AND PRESERVATION COMMISSION

A public hearing on this matter and associated potential environmental impacts, if any, will be conducted by the City of San Fernando Planning and Preservation Commission on:

DATE: Monday, March 8, 2021

TIME: 6:30 p.m.

HEARING LOCATION: Teleconference - Per Governor's Executive Order (See Below)

PROJECT LOCATION: City of San Fernando, Los Angeles County, CA

(FEMA Community No. 060628)

PROJECT DESCRIPTION:

The proposed project is the City's acceptance of the revised Flood Insurance Study (FIS) materials prepared by the Federal Emergency Management Agency (FEMA) for Los Angeles County and Incorporated Areas, including the City of San Fernando. These materials include revised Flood Insurance Rate Map (FIRM) panels, a revised FIRM index, and a revised FIS report. The purpose of the revised study is to update information on the existence and severity of flood hazards within the study area. This information is used to establish actuarial flood insurance rates and to assist communities in the implementation of floodplain management programs. In the case of the City of San Fernando, the complete boundaries of the community continue to lie within an area designated as Zone X, Areas of Minimal Flood Hazard. While the City is considered to be at low risk for flood hazards, FEMA requests that all communities included within the FIS study area continue to maintain an updated ordinance that references a floodplain management program and accepts the FIS materials. Communities that do not maintain a floodplain management ordinance that accepts the FIS materials may be at risk of restriction to FEMA assistance during any future flood events.

Copies of the revised FIS report, FIRM panels, and FIRM index are available for review at the Public Works counter at City Hall and on the City website at https://ci.san-fernando.ca.us/whats-new/.

If you wish to challenge the action taken on this matter in court, you may be limited to raising only those issues you or someone else raised at the public hearing described in this notice, or in written correspondence delivered to the City of San Fernando at, or prior to, the public hearing.

For further information regarding this proposal, please contact Matt Baumgardner, Director of Public Works, at (818) 898-1222, via email at mbaumgardner@sfcity.org, or by written correspondence to: City of San Fernando, Public Works Department, 117 Macneil Street, San Fernando, CA 91340-2993.

TIMOTHY T. HOU, AICP
Deputy City Manager/Director of Community Development

SPECIAL NOTICE REGARDING COVID-19

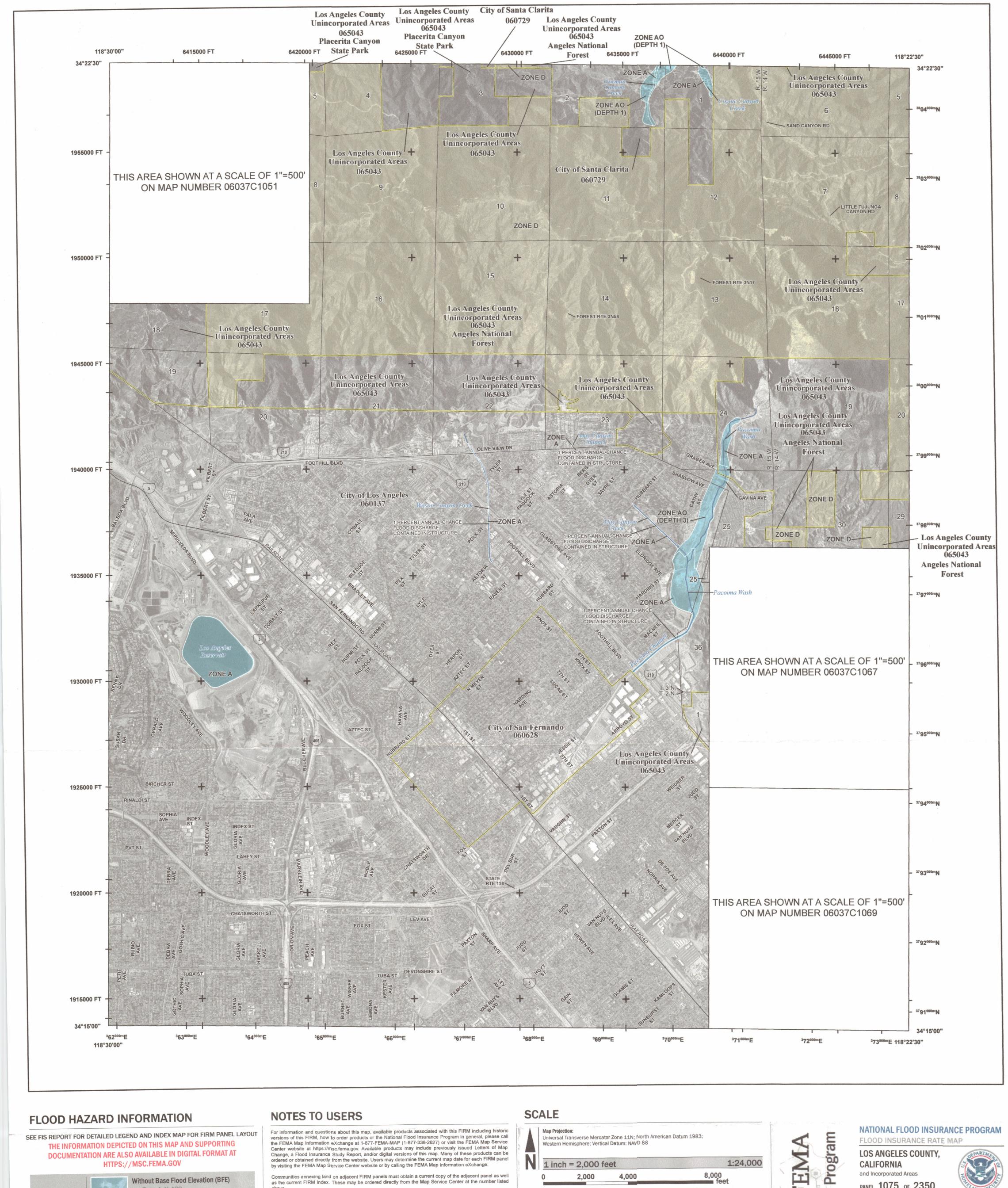
On March 4, 2020, Governor Newsom proclaimed a State of Emergency in California as a result of the threat of COVID-19. On March 17, 2020, Governor Newsom issued Executive Order N-29-20 (superseding the Brown Act-related provisions of Executive Order N-25-20 issued on March 12, 2020), which allows a local legislative body to hold public meetings via teleconferencing and to make public meetings accessible telephonically or otherwise electronically to all members of the public seeking to observe and to address the local legislative body. Pursuant to Executive Order N-29-20, please be advised that the San Fernando Planning and Preservation Commission will participate in meetings telephonically or via video conferencing.

PUBLIC PARTICIPATION: Pursuant to Executive N-29-20 and given the current health concerns, members of the public can access meetings live on-line, with audio and video, via YouTube, at https://www.youtube.com/c/cityofsanfernando

Members of the public can submit comments electronically for Commission's consideration by sending them to **Mdesantiago@sfcity.org**. To ensure distribution to the Commission prior to consideration of the agenda, please submit comments prior to 6:00 p.m. the day of the meeting. Those comments will be distributed to the Commission and will be limited to three minutes and made part of the official public record of the meeting.

Community Development Department • 117 Macneil Street • San Fernando, CA 91340-2993 • (818) 898-1227 • Fax (818) 365-8090

Publish: 2/25/2021



Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS 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 Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee OTHER AREAS OF See Notes Zone X FLOOD HAZARD NO SCREEN Areas of Minimal Flood Hazard Zone X **OTHER** Area of Undetermined Flood Hazard Zone D **AREAS** ----- Channel, Culvert or Storm Sewer Levee, Dike or Floodwall **GENERAL** STRUCTURES 18.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation (BFE) 8)---- Coastal Transect —— – Profile Baseline Hydrographic Feature 513 ~ Base Flood Elevation Line (BFE)

Limit of Study

Jurisdiction Boundary

OTHER

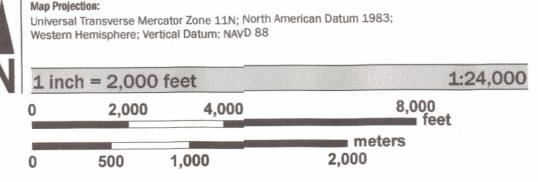
FEATURES

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Map Service Center at the number listed

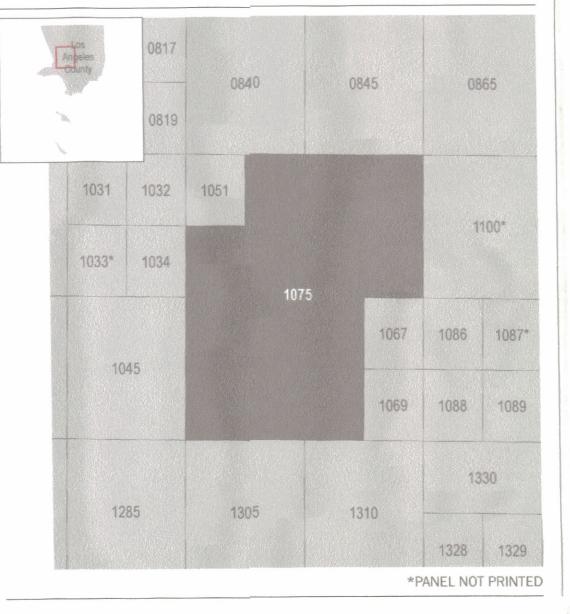
For community and countywide map dates refer to the Flood Insurance Study report for this jurisdiction. To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was derived from digital orthophotography collected by the U.S. Department of Agriculture Farm Service Agency. This imagery was flown in 2014 and was produced with a 1-

meter ground sample distance.







PANEL 1075 OF 2350

Panel Contains: COMMUNITY LOS ANGELES, CITY OF LOS ANGELES COUNTY SAN FERNANDO, CITY OF SANTA CLARITA, CITY OF

Insurance

Flood

National

NUMBER PANEL SUFFIX 060137 1075 1075 1075

> **VERSION NUMBER** 2.3.3.2 MAP NUMBER 06037C1075G MAP REVISED

> > JUNE 2, 2021

FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 1 OF 9



LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
AGOURA HILLS, CITY OF	065072	COMMERCE, CITY OF	060110
ALHAMBRA, CITY OF*	060095	COMPTON, CITY OF	060111
ARCADIA, CITY OF*	065014	COVINA, CITY OF*	065024
ARTESIA, CITY OF*	060097	CUDAHY, CITY OF	060657
AVALON, CITY OF	060098	CULVER CITY, CITY OF	060114
AZUSA, CITY OF	065015	DIAMOND BAR, CITY OF	060741
BALDWIN PARK, CITY OF*	060100	DOWNEY, CITY OF	060645
BELL, CITY OF*	060101	DUARTE, CITY OF*	065026
BELL GARDENS, CITY OF	060656	EL MONTE, CITY OF*	060658
BELLFLOWER, CITY OF	060102	EL SEGUNDO, CITY OF	060118
BEVERLY HILLS, CITY OF*	060655	GARDENA, CITY OF	060119
BRADBURY, CITY OF*	065017	GLENDALE, CITY OF	065030
BURBANK, CITY OF	065018	GLENDORA, CITY OF*	065031
CALABASAS, CITY OF	060749	HAWAIIAN GARDENS, CITY OF*	065032
CARSON, CITY OF	060107	HAWTHORNE, CITY OF*	060123
CERRITOS, CITY OF	060108	HERMOSA BEACH, CITY OF	060124
CLAREMONT, CITY OF*	060109	HIDDEN HILLS, CITY OF	060125

^{*}No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

FLOOD INSURANCE STUDY NUMBER

06037CV001F

Version Number 2.3.3.2



HUNTINGTON PARK, CITY OF* 065035 POMONA, CITY OF* 060148 INDUSTRY, CITY OF* 065036 RANCHO PALOS VERDES, CITY OF 060464 IRWINDALE, CITY OF* 060129 REDONDO BEACH, CITY OF 060150 LA CANADA FLINTRIDGE, CITY OF* 060669 ROLLING HILLS, CITY OF* 060151 LA HABRA HEIGHTS, CITY OF* 060131 ROSEMEAD, CITY OF* 060153 LA PUENTE*, CITY OF 060131 ROSEMEAD, CITY OF* 060153 LA PUENTE*, CITY OF 060131 ROSEMEAD, CITY OF* 060154 LA VERNE, CITY OF 060133 SAN FERNANDO, CITY OF 060628 LAKEWOOD, CITY OF 060130 SAN GABRIEL, CITY OF* 060052 LANCASTER, CITY OF 060130 SAN GABRIEL, CITY OF* 060052 LANCASTER, CITY OF 060131 SAN FERNANDO, CITY OF* 060052 LANCASTER, CITY OF 060130 SAN GABRIEL, CITY OF* 060052 LANCASTER, CITY OF 060135 SANTA FE SPRINGS, CITY OF 060158 LOMITA, CITY OF* 060135 SANTA FE SPRINGS, CITY OF 060158 LONG BEACH, CITY OF 060136 SANTA MONICA, CITY OF 060159 LOS ANGELES, CITY OF 060137 SIERRA MADRE, CITY OF* 060159 LOS ANGELES, CITY OF 060137 SIERRA MADRE, CITY OF* 060159 LOS ANGELES, CITY OF 060136 SANTA MONICA, CITY OF* 060159 LYNWOOD, CITY OF 060137 SIERRA MADRE, CITY OF* 060161 LYNWOOD, CITY OF 060137 SIERRA MADRE, CITY OF* 060161 LYNWOOD, CITY OF 060138 SOUTH BLUNDITE, CITY OF* 060161 MAYMOOD, CITY OF 060138 SOUTH BLUNDITE, CITY OF* 060161 MAYMOOD, CITY OF 060139 SOUTH BASADENA, CITY OF 060163 MANHATTAN BEACH, CITY OF 060141 VERNON, CITY OF 060166 MONTEBELLO, CITY OF 060141 VERNON, CITY OF* 060166 MONTEBELLO, CITY OF 060141 VERNON, CITY OF* 060166 MONTEREY PARK, CITY OF 060141 VERNON, CITY OF* 060166 MONTEREY PARK, CITY OF 060144 WEST HOLLYWOOD, CITY OF* 060166 PALMDALE, CITY OF 060144 WEST HOLLYWOOD, CITY OF* 060166 PALMDALE, CITY OF 060144 WEST HOLLYWOOD, CITY OF* 060166	COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
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MALIBU, CITY OF 060745 SOUTH GATE, CITY OF 060163 MANHATTAN BEACH, CITY OF 060138 SOUTH PASADENA, CITY OF* 065061 MAYWOOD, CITY OF* 060651 TEMPLE CITY, CITY OF* 060653 MONROVIA, CITY OF* 065046 TORRANCE, CITY OF 060165 MONTEBELLO, CITY OF 060141 VERNON, CITY OF* 060166 MONTEREY PARK, CITY OF* 065047 WALNUT, CITY OF* 065069 NORWALK, CITY OF 060652 WEST COVINA, CITY OF 060720 PALMDALE, CITY OF 060144 WEST HOLLYWOOD, CITY OF* 060720 PALOS VERDES ESTATES, CITY OF 065049 WHITTIER, CITY OF 060169		065043	SIGNAL HILL, CITY OF*	060161
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MAYWOOD, CITY OF* 060651 TEMPLE CITY, CITY OF* 060653 MONROVIA, CITY OF* 065046 TORRANCE, CITY OF 060165 MONTEBELLO, CITY OF 060141 VERNON, CITY OF* 060166 MONTEREY PARK, CITY OF* 065047 WALNUT, CITY OF* 065069 NORWALK, CITY OF 060652 WEST COVINA, CITY OF 060666 PALMDALE, CITY OF 060144 WEST HOLLYWOOD, CITY OF* 060720 PALOS VERDES ESTATES, CITY OF 060145 WESTLAKE VILLAGE, CITY OF 060744 PARAMOUNT, CITY OF 065049 WHITTIER, CITY OF 060169	MALIBU, CITY OF	060745	SOUTH GATE, CITY OF	060163
MONROVIA, CITY OF* 065046 TORRANCE, CITY OF 060165 MONTEBELLO, CITY OF 060141 VERNON, CITY OF* 060166 MONTEREY PARK, CITY OF* 065047 WALNUT, CITY OF* 065069 NORWALK, CITY OF 060652 WEST COVINA, CITY OF 060666 PALMDALE, CITY OF 060144 WEST HOLLYWOOD, CITY OF* 060720 PALOS VERDES ESTATES, CITY OF 060145 WESTLAKE VILLAGE, CITY OF 060744 PARAMOUNT, CITY OF 065049 WHITTIER, CITY OF 060169	MANHATTAN BEACH, CITY OF	060138	SOUTH PASADENA, CITY OF*	065061
MONTEBELLO, CITY OF 060141 VERNON, CITY OF* 060166 MONTEREY PARK, CITY OF* 065047 WALNUT, CITY OF* 065069 NORWALK, CITY OF 060652 WEST COVINA, CITY OF 060666 PALMDALE, CITY OF 060144 WEST HOLLYWOOD, CITY OF* 060720 PALOS VERDES ESTATES, CITY OF 060145 WESTLAKE VILLAGE, CITY OF 060744 PARAMOUNT, CITY OF 065049 WHITTIER, CITY OF 060169	MAYWOOD, CITY OF*	060651	TEMPLE CITY, CITY OF*	060653
MONTEREY PARK, CITY OF* 065047 WALNUT, CITY OF* 065069 NORWALK, CITY OF 060652 WEST COVINA, CITY OF 060666 PALMDALE, CITY OF 060144 WEST HOLLYWOOD, CITY OF* 060720 PALOS VERDES ESTATES, CITY OF 060145 WESTLAKE VILLAGE, CITY OF 060744 PARAMOUNT, CITY OF 065049 WHITTIER, CITY OF 060169	MONROVIA, CITY OF*	065046	TORRANCE, CITY OF	060165
NORWALK, CITY OF060652WEST COVINA, CITY OF060666PALMDALE, CITY OF060144WEST HOLLYWOOD, CITY OF*060720PALOS VERDES ESTATES, CITY OF060145WESTLAKE VILLAGE, CITY OF060744PARAMOUNT, CITY OF065049WHITTIER, CITY OF060169	MONTEBELLO, CITY OF	060141	VERNON, CITY OF*	060166
PALMDALE, CITY OF 060144 WEST HOLLYWOOD, CITY OF* 060720 PALOS VERDES ESTATES, CITY OF 060145 WESTLAKE VILLAGE, CITY OF 060744 PARAMOUNT, CITY OF 065049 WHITTIER, CITY OF 060169	MONTEREY PARK, CITY OF*	065047	WALNUT, CITY OF*	065069
PALOS VERDES ESTATES, CITY OF 060145 WESTLAKE VILLAGE, CITY OF 060744 PARAMOUNT, CITY OF 065049 WHITTIER, CITY OF 060169	NORWALK, CITY OF	060652	WEST COVINA, CITY OF	060666
PARAMOUNT, CITY OF 065049 WHITTIER, CITY OF 060169	PALMDALE, CITY OF	060144	WEST HOLLYWOOD, CITY OF*	060720
	PALOS VERDES ESTATES, CITY OF	060145	WESTLAKE VILLAGE, CITY OF	060744
PASADENA, CITY OF* 065050	PARAMOUNT, CITY OF	065049	WHITTIER, CITY OF	060169
	PASADENA, CITY OF*	065050		

^{*}No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

FLOOD INSURANCE STUDY NUMBER **06037CV001F**

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Flood Insurance Rate Map (FIRM)

FLOOD INSURANCE STUDY REPORT LOS ANGELES COUNTY, CALIFORNIA

SECTION 1.0 – INTRODUCTION

1.1 The National Flood Insurance Program

The National Flood Insurance Program (NFIP) is a voluntary Federal program that enables property owners in participating communities to purchase insurance protection against losses from flooding. This insurance is designed to provide an insurance alternative to disaster assistance to meet the escalating costs of repairing damage to buildings and their contents caused by floods.

For decades, the national response to flood disasters was generally limited to constructing flood-control works such as dams, levees, sea-walls, and the like, and providing disaster relief to flood victims. This approach did not reduce losses nor did it discourage unwise development. In some instances, it may have actually encouraged additional development. To compound the problem, the public generally could not buy flood coverage from insurance companies, and building techniques to reduce flood damage were often overlooked.

In the face of mounting flood losses and escalating costs of disaster relief to the general taxpayers, the U.S. Congress created the NFIP. The intent was to reduce future flood damage through community floodplain management ordinances, and provide protection for property owners against potential losses through an insurance mechanism that requires a premium to be paid for the protection.

The U.S. Congress established the NFIP on August 1, 1968, with the passage of the National Flood Insurance Act of 1968. The NFIP was broadened and modified with the passage of the Flood Disaster Protection Act of 1973 and other legislative measures. It was further modified by the National Flood Insurance Reform Act of 1994 and the Flood Insurance Reform Act of 2004. The NFIP is administered by the Federal Emergency Management Agency (FEMA), which is a component of the Department of Homeland Security (DHS).

Participation in the NFIP is based on an agreement between local communities and the Federal Government. If a community adopts and enforces floodplain management regulations to reduce future flood risks to new construction and substantially improved structures in Special Flood Hazard Areas (SFHAs), the Federal Government will make flood insurance available within the community as a financial protection against flood losses. The community's floodplain management regulations must meet or exceed criteria established in accordance with Title 44 Code of Federal Regulations (CFR) Part 60.3, *Criteria for land Management and Use*.

SFHAs are delineated on the community's Flood Insurance Rate Maps (FIRMs). Under the NFIP, buildings that were built before the flood hazard was identified on the community's FIRMs are generally referred to as "Pre-FIRM" buildings. When the NFIP was created, the U.S. Congress recognized that insurance for Pre-FIRM buildings would be prohibitively expensive if the premiums were not subsidized by the Federal Government. Congress also recognized that most of these floodprone buildings were built by individuals who did not have sufficient knowledge of the flood hazard to make informed decisions. The NFIP requires that full actuarial rates reflecting the complete flood risk be charged on all buildings constructed or substantially improved on or after

the effective date of the initial FIRM for the community or after December 31, 1974, whichever is later. These buildings are generally referred to as "Post-FIRM" buildings.

1.2 Purpose of this Flood Insurance Study Report

This Flood Insurance Study (FIS) report revises and updates information on the existence and severity of flood hazards for the study area. The studies described in this report developed flood hazard data that will be used to establish actuarial flood insurance rates and to assist communities in efforts to implement sound floodplain management.

In some states or communities, floodplain management criteria or regulations may exist that are more restrictive than the minimum Federal requirements. Contact your State NFIP Coordinator to ensure that any higher State standards are included in the community's regulations.

1.3 Jurisdictions Included in the Flood Insurance Study Project

This FIS Report covers the entire geographic area of Los Angeles County, California.

The jurisdictions that are included in this project area, along with the Community Identification Number (CID) for each community and the 8-digit Hydrologic Unit Codes (HUC-8) sub-basins affecting each, are shown in Table 1. The Flood Insurance Rate Map (FIRM) panel numbers that affect each community are listed. If the flood hazard data for the community is not included in this FIS Report, the location of that data is identified.

The location of flood hazard data for participating communities in multiple jurisdictions is also indicated in the table.

Jurisdictions that have no identified SFHAs as of the effective date of this study are indicated in the table. Changed conditions in these communities (such as urbanization or annexation) or the availability of new scientific or technical data about flood hazards could make it necessary to determine SFHAs in these jurisdictions in the future.

Table 1: Listing of NFIP Jurisdictions

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Agoura Hills, City of	065072	18070104	06037C1241F 06037C1242F 06037C1243G 06037C1244F 06037C1261F 06037C1263F	
Alhambra, City of ¹	060095	18070105	06037C1635F ² 06037C1641F ² 06037C1645F 06037C1675F ²	
Arcadia, City of ¹	065014	18070105 18070106	06037C1400F 06037C1675F ² 06037C1700F	
Artesia, City of ¹	060097	18070106	06037C1839F 06037C1980F	

Table 1: Listing of NFIP Jurisdictions, continued

		11110 0		If Not Included,
Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	Location of Flood Hazard Data
Community	OID	Cub Buom(c)	06037C2202F	Tiazaid Data
Accelera City of	000000	40070407	06037C2203F ²	
Avalon, City of	060098	18070107	06037C2204F	
			06037C2210F ²	
			06037C1415F	
Azusa, City of	065015	18070106	06037C1420F	
			06037C1700F	
Daldwin Dade Oite of 1	000400	40070400	06037C1670F	
Baldwin Park, City of ¹	060100	18070106	06037C1675F ² 06037C1700F	
			06037C1700F	
Bell, City of ¹	060101	18070105	06037C1803F	
Bell Gardens, City of	060656	18070105	06037C1810F	
, - ,			06037C1820F	
			06037C1840F	
Bellflower, City of	060102	18070106	06037C1960F	
			06037C1980F	
			06037C1585F	
Beverly Hills, City of ¹	060655	18070104	06037C1595G	
Bevery Time, Only of	060655	10070104	06037C1605F	
			06037C1611G	
Bradbury, City of ¹	065017	18070105 18070106	06037C1415F	
			06037C1328F	
			06037C1329F	
			06037C1330F	
Burbank, City of	065018	18070105	06037C1335F	
Barbarik, Oity of	000010	10070100	06037C1337F	
			06037C1339F	
			06037C1340F ²	
			06037C1345F 06037C1262F	
			06037C1262F 06037C1263F	
			06037C1264G	
			06037C1267F	
		18070104	06037C1267F	
Calabasas, City of	060749	18070105	06037C1269F	
			06037C1288G	
			06037C1527G	
			06037C1531F	
			06037C1532G	
			06037C1795F	
			06037C1815F	
Carson, City of	060107	18070105	06037C1935F	
, 2,		18070106	06037C1941G	
			06037C1942G	
			06037C1955F 06037C1961G	
			00037019010	

Table 1: Listing of NFIP Jurisdictions, continued

				If Not Included
		HUC-8		If Not Included, Location of Flood
Community	CID	Sub-Basin(s)	Located on FIRM Panel(s)	Hazard Data
,		()	06037C1839F	
			06037C1840F	
O-mik Oikf	000400	40070400	06037C1843F	
Cerritos, City of	060108	18070106	06037C1844F	
			06037C1980F	
			06037C2000F	
Claremont, City of ¹	060109	18070106	06037C1475F	
Clarentent, City of	000100	18070203	06037C1750F	
			06037C1639F ²	
Commoros City of	060110	10070105	06037C1643F ²	
Commerce, City of	060110	18070105	06037C1645F 06037C1810F	
			06037C1810F	
			06037C1795F	
		18070105	06037C1793F	
Compton, City of	060111	18070106	06037C1820F	
			06037C1955F	
Coving City of	065024	18070106	06037C1700F	
Covina, City of ¹	003024	10070100	06037C1725F	
Cudahy, City of	060657	18070105	06037C1805F	
Gudarry, Orty Or	000007	10070100	06037C1810F	
			06037C1595G	
			06037C1633G	
Culver City, City of	060114	18070104	06037C1613G	
			06037C1752G	
			06037C1760F	
		40070400	06037C1725F	
Diamond Bar, City of	060741	18070106	06037C1880F	
_		18070203	06037C1900F ²	
			06037C1810F	
			06037C1820F	
Downey, City of	060645	18070105	06037C1829F	
		18070106	06037C1830F	
			06037C1837F 06037C1840F	
			06037C1405F ²	
			06037C1405F ² 06037C1410F ²	
Duarte, City of ¹	065026	18070105	06037C1410F	
Dudito, Oity of	000020	18070106	06037C1413F	
			06037C1700F	
		10075:55	06037C1670F	
El Monte, City of ¹	060658	18070105	06037C1675F ²	
		18070106	06037C1700F	
			06037C1766G	
		18070104	06037C1767G ²	
El Segundo, City of	060118	18070106	06037C1768G 06037C1769G	
			06037C1769G 06037C1790F	
	1		00037017905	

Table 1: Listing of NFIP Jurisdictions, continued

	Table I. L	isting of Milit	Jurisaictions, continued	
Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Gardena, City of	060119	18070106	06037C1790F 06037C1795F 06037C1930F 06037C1935F	. Id. a. B. a.a.
Glendale, City of ¹	065030	18070105	06037C1095F 06037C1125F ² 06037C1335F 06037C1345F 06037C1375F 06037C1610F 06037C1626F	
Glendora, City of	065031	18070106	06037C1420F 06037C1440F 06037C1445F 06037C1700F 06037C1725F	
Hawaiian Gardens City of ¹	065032	18070106	06037C1980F 06037C2000F	
Hawthorne, City of ¹	060123	18070106	06037C1767G ² 06037C1769G 06037C1790F	
Hermosa Beach, City of	060124	18070104 18070106	06037C1768G 06037C1769G 06037C1906G 06037C1907G	
Hidden Hills, City of	060125	18070104 18070105	06037C1266F 06037C1267F 06037C1268F	
Huntington Park, City of ¹	060126	18070105	06037C1805F	

Table 1: Listing of NFIP Jurisdictions, continued

		HUC-8		If Not Included, Location of Flood
Community	CID	Sub-Basin(s)	Located on FIRM Panel(s)	Hazard Data
Industry, City of ¹	065035	18070106	06037C1668F 06037C1670F 06037C1675F ² 06037C1695F 06037C1700F 06037C1725F 06037C1875F 06037C1880F	
Inglewood, City of ¹	065036	18070104 18070105 18070106	06037C1760F 06037C1776G 06037C1777G 06037C1780G 06037C1790F	
Irwindale, City of¹	060129	18070105 18070106	06037C1415F 06037C1420F 06037C1675F ² 06037C1700F	
La Canada Flintidge, City of ¹	060669	18070105	06037C1375F	
La Habra Heights, City of ¹	060701	18070106	06037C1851F 06037C1853F 06037C1875F	
La Mirada, City of	060131	18070106	06037C1841F 06037C1842F 06037C1843F 06037C1844F 06037C1861F 06037C1875F 06037C2000F	
La Puente, City of ¹	065039	18070106	06037C1695F 06037C1700F	
La Verne, City of	060133	18070106	06037C1445F 06037C1475F 06037C1725F	
Lakewood, City of	060130	18070105 18070106	06037C1960F 06037C1980F 06037C2000F	
Lancaster, City of	060672	18090206	06037C0150F 06037C0175F 06037C0400F 06037C0405F 06037C0410F 06037C0415F 06037C0420F 06037C0442F 06037C0450F 06037C0465F 06037C0465F 06037C0475F	

Table 1: Listing of NFIP Jurisdictions, continued

Community					
Lawndale, City of 1 060134 18070106 06037C190F 06037C190F 06037C1940F 06037C1940F 06037C1940F 06037C1941G 06037C1943G 06037C1943G 06037C1943G 06037C1955F 06037C1960F 06037C1960F 06037C1960F 06037C1960F 06037C1960F 06037C1966G 06037C1046F 06037C1046F 06037C1046F 06037C1066G 06037C1266G 06037C12					Location of Flood
Lawnoale, City of ' 060134 18070106 06037C1940F 06037C1941G 06037C1941G 06037C1941G 06037C1941G 06037C1941G 06037C1941G 06037C1945F 06037C1955F 06037C1955F 06037C1960F 06037C2056G 06037C2056G 06037C2056G 06037C2056G 06037C2056F 06037C1056F 06037C105FF 06037C1260F 06037C130F 0603	Community	CID	Sub-Basin(s)	()	Hazard Data
Lomita, City of	Lawndale. City of ¹	060134	18070106		
Lomita, City of 06037C1941G 06037C1943G 06037C1943G 06037C1943G 06037C1955F 06037C1955F 06037C1955F 06037C1961G 06037C1961G 06037C1962F 06037C1964G 06037C1964G 06037C1964G 06037C1964G 06037C1964G 06037C1964G 06037C1964G 06037C1964G 06037C1964G 06037C1966G 06037C1980F 06037C1980F 06037C1980F 06037C1980F 06037C2051G 06037C1051G 06037C1251G 06					
06037C1943G	Lomita, City of ¹	060135	18070106		
Long Beach, City of 060136					
Long Beach, City of 060136 18070105 06037C1962F 06037C1962F 06037C1962F 06037C1962F 06037C1962F 06037C1962F 06037C1962F 06037C1962F 06037C1963G 06037C1968G 06037C1968G 06037C1998G 06037C1998G 06037C1999G 06037C1999G 06037C1999F 06037C2051G 06037C					
Long Beach, City of 060136		ļ			
Long Beach, City of 060136 18070105 06037C1962F 06037C1963G 06037C1963G 06037C1966G² 06037C1966G² 06037C1966G² 06037C1968G 06037C1968G 06037C1969G 06037C1969G 06037C1969G 06037C1969G 06037C1969G 06037C1969G 06037C1969G 06037C2052G 06037C2052G 06037C2052G 06037C2056G 06037C2056G 06037C2056G 06037C2056G 06037C2056G 06037C205G 06037C1989F, 06037C1034F, 06037C1034F, 06037C1034F, 06037C1067F, 06037C1069F, 0603		ļ			
Long Beach, City of 18070105		ļ			
Long Beach, City of 060136 18070106 06037C1963G 06037C1966G² 06037C1968G 06037C1968G 06037C1980F 06037C1980F 06037C2988G 06037C2951G 06037C2052G 06037C2056G 06037C2057G 06037C2056G 06037C2056G 06037C2056G 06037C103F; 06037C103F; 06037C103F; 06037C103F; 06037C103F; 06037C103F; 06037C105F; 06037C125F;		ļ		06037C1961G	
Long Beach, City of 060136 18070106 06037C1964G 06037C1967G 06037C1967G 06037C1968G 06037C1968G 06037C1980F 06037C1980F 06037C1980F 06037C2051G 06037C2051G 06037C2052G 06037C2057G 06037C2057G 06037C1038F, 06037C1038F, 06037C1038F, 06037C1049F, 06037C105F, 06037C106F, 06037C106F, 06037C106F, 06037C106F, 06037C106F, 06037C1088F, 06037C1088F, 06037C1089F, 06037C1269F, 06037C1310F, 0					
18070106 06037C1966G2 06037C196G62 06037C196G6 06037C196G6 06037C196G6 06037C198BG 06037C198BG 06037C198BG 06037C295GG 06037C205GG 06037C103F2 06037C103F2 06037C103F2 06037C103F2 06037C103F2 06037C103F2 06037C105F2 06037C125F2 06037C125F3 06037C125F2 06037C125F3 06037C1315F3 06037C131F3 06037C1315F3 06037C	Long Beach, City of	060136			
D6037C1967G D6037C1968G D6037C1969G D6037C1980F D6037C1980F D6037C1980F D6037C1990F D6037C2052G D6037C2056G D6037C2056G D6037C2056G D6037C2056G D6037C2056G D6037C2056G D6037C1036F D6037C1034F D6037C1040F D6037C1040F D6037C1040F D6037C1040F D6037C1069F D6037C1069F D6037C1086F D6037C1266F D6037C126F			18070106		
December					
Continue		ļ			
Description					
Decision					
Decision					
December					
D6037C2056G D6037C2057G D6037C2057G D6037C2057G D6037C2057G D6037C2057G D6037C2057G D6037C2057G D6037C1025F², D6037C1034F, D6037C1034F, D6037C1034F, D6037C1034F, D6037C1040F, D6037C1040F, D6037C1069F, D6037C1069F, D6037C1075G, D6037C1086F, D6037C1088F, D6037C1089F, D6037C1089F, D6037C1089F, D6037C1089F, D6037C1269F, D6037C1266F, D6037C1266F, D6037C1266F, D6037C1266F, D6037C1266F, D6037C1266F, D6037C1266F, D6037C1286F, D6037C1286F, D6037C1286F, D6037C1286F, D6037C1290F, D6037C1290F, D6037C1305F, D6037C1305F, D6037C1310F, D6037C1310F, D6037C1310F, D6037C1310F, D6037C1310F, D6037C1310F, D6037C1310F, D6037C1310F, D6037C1310F, D6037C1315F, D6037C1310F, D6037C1315F, D6037C1315F				06037C2051G	
Los Angeles, City of 060137 18070103 06037C1025F2, 06037C1025F2, 18070104 06037C1033F2, 18070105 06037C1040F, 06037C1069F, 06037C1069F, 06037C1086F, 06037C1088F, 06037C1089F, 06037C1089F, 06037C1095F, 06037C1266F, 06037C1266F, 06037C1266F, 06037C1269F, 06037C1269F, 06037C1269F, 06037C1269F, 06037C1280F, 06037C1280F, 06037C1280F, 06037C1280F, 06037C1280F, 06037C1280F, 06037C1280F, 06037C1290F, 06037C1290F, 06037C1290F, 06037C1305F, 06037C1305F, 06037C1310F, 06037C1310F, 06037C1315F,					
Los Angeles, City of 18070103 18070104 06037C1025F², 18070105 06037C1033F², 18070106 06037C1046F, 06037C1046F, 06037C1069F, 06037C1069F, 06037C1086F, 06037C1088F, 06037C1089F, 06037C1095F, 06037C1266F, 06037C1266F, 06037C1268F, 06037C125F², 06037C125F², 06037C125F², 06037C125F², 06037C125F², 06037C125F, 06037C125F, 06037C125F, 06037C1280F, 06037C1280F, 06037C1280F, 06037C1280F, 06037C1280F, 06037C1280F, 06037C1280F, 06037C1280F, 06037C1280F, 06037C1290F, 06037C1290F, 06037C1290F, 06037C1290F, 06037C1305F, 06037C1305F, 06037C1310F, 06037C1310F,					
Los Angeles, City of 060137 18070104 18070105 18070105 06037C1035F², 06037C104F, 06037C104F, 06037C104F, 06037C106F, 06037C106F, 06037C108F, 06037C108F, 06037C108F, 06037C108F, 06037C108F, 06037C108F, 06037C108F, 06037C108F, 06037C108F, 06037C125F², 06037C125F², 06037C125F², 06037C126F, 06037C125F², 06037C125F², 06037C125F², 06037C125F², 06037C125F², 06037C125F², 06037C125F², 06037C125F², 06037C125F², 06037C125F, 06037C125F, 06037C128BG, 06037C129F, 06037C129F, 06037C129F, 06037C130F, 06037C1310F, 06037C1310F, 06037C1310F,					
Los Angeles, City of 18070104 18070105 18070106 18070106 18070106 18070106 18070106 18070106 18070106 18070106 18070106 18070106 18070106 18070106 18070106 18070106 18070106 18070106 180701045F, 06037C1045F, 06037C1069F, 06037C1086F, 06037C1088F, 06037C1088F, 06037C1095F, 06037C125F², 06037C1266F, 06037C1266F, 06037C1269F, 06037C1280F, 06037C1280F, 06037C1280F, 06037C1280F, 06037C1290F, 06037C1290F, 06037C1290F, 06037C1305F, 06037C1315F,		-	18070103		
18070105 18070106 06037C1040F, 06037C1045F, 06037C1069F, 06037C1086F, 06037C1086F, 06037C1088F, 06037C1088F, 06037C1089F, 06037C1089F, 06037C125F, 06037C1266F, 06037C1266F, 06037C1266F, 06037C1275F, 06037C1280F, 06037C1280F, 06037C1280F, 06037C1280F, 06037C1290F, 06037C1290F, 06037C1305F, 06037C1305F, 06037C1310F, 06037C1310F, 06037C1310F,	Los Angeles, City of	060137			
06037C1045F, 06037C1067F, 06037C1069F, 06037C1086F, 06037C1087F², 06037C1088F, 06037C1089F, 06037C1095F, 06037C1266F, 06037C1266F, 06037C1266F, 06037C1269F, 06037C1280F, 06037C1290F, 06037C1290F, 06037C1305F, 06037C1305F, 06037C1310F, 06037C1310F,					
06037C1067F, 06037C1069F, 06037C1086F, 06037C1086F, 06037C1088F, 06037C1088F, 06037C1089F, 06037C1095F, 06037C125F ² , 06037C1266F, 06037C1269F, 06037C1269F, 06037C1280F, 06037C1280F, 06037C1280F, 06037C1295F, 06037C1295F, 06037C1295F, 06037C1295F, 06037C1295F, 06037C12190F, 06037C1210F, 06037C1310F, 06037C1315F,			18070106		
06037C1069F, 06037C1075G, 06037C1086F, 06037C1087F ² , 06037C1089F, 06037C1095F, 06037C125F ² , 06037C1266F, 06037C1260F, 06037C1260F, 06037C1280F, 06037C1280F, 06037C1280F, 06037C1285F, 06037C1290F, 06037C1290F, 06037C1290F, 06037C1305F, 06037C1310F, 06037C1310F,					
06037C1075G, 06037C1086F, 06037C1087F ² , 06037C1088F, 06037C1089F, 06037C1095F, 06037C125F ² , 06037C1266F, 06037C1269F, 06037C1269F, 06037C1280F, 06037C1288G, 06037C1288G, 06037C1290F, 06037C1295F, 06037C1310F, 06037C1310F, 06037C1315F,					
06037C1086F, 06037C1087F ² , 06037C1088F, 06037C1089F, 06037C1126F ² , 06037C1266F, 06037C1266F, 06037C1269F, 06037C1289F, 06037C1280F, 06037C1288G, 06037C1290F, 06037C1290F, 06037C1295F, 06037C1315F,					
06037C1087F², 06037C1088F, 06037C1089F, 06037C1095F, 06037C125F², 06037C1266F, 06037C1267F, 06037C1275F, 06037C1280F, 06037C1285F, 06037C1285F, 06037C1295F, 06037C1295F, 06037C1305F, 06037C1310F, 06037C1315F,					
06037C1088F, 06037C1089F, 06037C1095F, 06037C1125F ² , 06037C1266F, 06037C1267F, 06037C1269F, 06037C1280F, 06037C1280F, 06037C1288G, 06037C1288G, 06037C1290F, 06037C1295F, 06037C1305F, 06037C1310F, 06037C1310F,					
06037C1095F, 06037C125F ² , 06037C1266F, 06037C1269F, 06037C1275F, 06037C1280F, 06037C1288G, 06037C1288G, 06037C1290F, 06037C1295F, 06037C1305F, 06037C1310F, 06037C1310F,					
06037C1125F ² , 06037C1266F, 06037C1267F, 06037C1275F, 06037C1280F, 06037C1285F, 06037C1288G, 06037C1290F, 06037C1295F, 06037C1305F, 06037C1310F, 06037C1315F,					
06037C1266F, 06037C1267F, 06037C1269F, 06037C1275F, 06037C1280F, 06037C1285F, 06037C1290F, 06037C1295F, 06037C1305F, 06037C1310F, 06037C1315F,				,	
06037C1267F, 06037C1269F, 06037C1275F, 06037C1280F, 06037C1285F, 06037C1288G, 06037C1290F, 06037C1295F, 06037C1305F, 06037C1310F, 06037C1310F,				,	
06037C1269F, 06037C1275F, 06037C1280F, 06037C1285F, 06037C1288G, 06037C1290F, 06037C1295F, 06037C1305F, 06037C1310F, 06037C1315F,					
06037C1275F, 06037C1280F, 06037C1285F, 06037C1288G, 06037C1290F, 06037C1295F, 06037C1305F, 06037C1310F, 06037C1315F,				,	
06037C1280F, 06037C1285F, 06037C1288G, 06037C1290F, 06037C1295F, 06037C1305F, 06037C1310F, 06037C1315F,				•	
06037C1288G, 06037C1290F, 06037C1295F, 06037C1305F, 06037C1310F, 06037C1315F,					
06037C1290F, 06037C1295F, 06037C1305F, 06037C1310F, 06037C1315F,					
06037C1295F, 06037C1305F, 06037C1310F, 06037C1315F,				,	
06037C1305F, 06037C1310F, 06037C1315F,				•	
06037C1310F, 06037C1315F,				•	
06037C1315F,				•	
				•	
				•	

Table 1: Listing of NFIP Jurisdictions, continued

	,
	If Not Included,
HUC-8	Location of Flood
	ed on FIRM Panel(s) Hazard Data
Los Angeles, City of 060137 18070103 18070104 18070105 18070106	06037C1328F, 06037C1339F, 06037C1335F, 06037C1339F, 06037C1340F ² , 06037C1345F, 06037C1553G, 06037C1554F, 06037C1556F ² , 06037C1559F, 06037C1566G, 06037C1566G, 06037C1588G, 06037C1588G, 06037C1588G, 06037C1589G ² , 06037C1589G ² , 06037C1610F, 06037C1610F, 06037C1611G, 06037C1614G, 06037C1618G, 06037C1629F, 06037C1629F, 06037C1638G, 06037C1638G, 06037C1638G, 06037C1638G, 06037C1638G, 06037C1638G, 06037C1638G, 06037C1638G, 06037C1638G, 06037C1638G, 06037C1638G, 06037C1638G, 06037C1638G, 06037C1638G, 06037C1638G, 06037C1638G, 06037C1638G, 06037C1638G, 06037C1638G, 06037C1751G, 06037C1751G, 06037C1751G, 06037C1751G, 06037C1760F, 06037C176G, 06037C1776G,

Table 1: Listing of NFIP Jurisdictions, continued

		11110.0		If Not Included,
Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	Location of Flood Hazard Data
Los Angeles, City of continued	060137	18070103 18070104 18070105 18070106	06037C1780G, 06037C1781G, 06037C1781G, 06037C1795G, 06037C1790F, 06037C1795F, 06037C1805F, 06037C1815F, 06037C1941G, 06037C1942G, 06037C1942G, 06037C1944G, 06037C1961G, 06037C1961G, 06037C2027G, 06037C2027G, 06037C2027G, 06037C2031G, 06037C2031G, 06037C2031G, 06037C2033G, 06037C2034G, 06037C2034G, 06037C2051G, 06037C2053G	Tiazard Bata
Los Angeles County, Unincorporated Areas	065043	18030003 18070102 18070103 18070105 18070106 18070107 18070203 18090206 18090208	06037C0025F ² 06037C0036F 06037C0040F 06037C0050F 06037C0100F 06037C0125F 06037C0150F 06037C0200F 06037C0256F 06037C0256F 06037C0256F 06037C0300F 06037C0305F 06037C0356F 06037C0356F 06037C0375F 06037C0400F 06037C0410F 06037C0410F 06037C0440F 06037C0440F 06037C0442F 06037C0446F 06037C0464F 06037C0466F 06037C0466F 06037C0468F 06037C0468F 06037C0470F 06037C0470F 06037C0470F 06037C0470F 06037C0450F	

Table 1: Listing of NFIP Jurisdictions, continued

				If Not Included,
		HUC-8		Location of Flood
Community	CID	Sub-Basin(s)	Located on FIRM Panel(s)	Hazard Data
Los Angeles County, Unincorporated Areas	065043	18030003 18070102 18070103 18070105 18070106 18070107 18070203 18090206 18090208	06037C0575F 06037C0595G 06037C0600G 06037C0605G 06037C0615G 06037C0630F 06037C0635F 06037C0640G 06037C0645G 06037C0651F 06037C0656F 06037C0658F 06037C0658F 06037C0658F 06037C0658F 06037C0665F 06037C070F 06037C080G 06037C080G 06037C080G 06037C080G 06037C080G 06037C080F	

Table 1: Listing of NFIP Jurisdictions, continued

				If Not Included,
		HUC-8		Location of Flood
Community	CID	Sub-Basin(s)	Located on FIRM Panel(s)	Hazard Data
			06037C1031G	
			06037C1032G	
			06037C1033F ²	
			06037C1034F	
			06037C1040F	
			06037C1051G	
			06037C1067F	
			06037C1075G	
			06037C1086F	
			06037C1087F ²	
			06037C1088F	
			06037C1095F	
			06037C10931 06037C1100F ²	
			06037C1100F	
			06037C1109F 06037C1125F ²	
			06037C1125F ² 06037C1150F ²	
			06037C1150F ²	
		18030003	06037C1175F ² 06037C1200F ²	
		18070102	06037C1225F ²	
		18070102	06037C1223F	
			06037C1239G 06037C1240F ²	
Los Angeles County,		18070104	06037C1240F2 06037C1243G	
Unincorporated Areas,	065043	18070105		
continued		18070106 18070107	06037C1244F 06037C1261F	
		18070203	06037C1261F	
		18090206	06037C1263F	
		18090208	06037C1264G	
		10030200	06037C1264G	
			06037C1267F	
			06037C1268F	
			06037C1269F	
			06037C12031	
			06037C1288G	
			06037C1200C	
			06037C1230F	
			06037C13391	
			06037C1375F	
			06037C1400F	
			06037C1405F ²	
			06037C1410F ²	
			06037C1415F	
			06037C1413F	
			06037C1420F	
			06037C1435F ²	
			06037C1433F	
			06037C1440F	
			06037C1445F 06037C1475F	
			06037C1475F 06037C1480F ²	
			06037C1480F	
			06037C1465F 06037C1487G	
			06037C1407G	
			2000.011000	

Table 1: Listing of NFIP Jurisdictions, continued

	Tubic 1. E		•	
				If Not Included,
		HUC-8		Location of Flood
Community	CID	Sub-Basin(s)	Located on FIRM Panel(s)	Hazard Data
			06037C1491G	
			06037C1492G	
			06037C1502G	
			06037C1505F ²	
			06037C1506G	
			06037C1507G	
			06037C1508F ²	
			06037C1509F ²	
			06037C1511G	
			06037C1512G	
			06037C1516F	
			06037C1517G	
			06037C1526G	
			06037C1527G	
			06037C1528F	
			06037C1529G	
			06037C1531F	
			06037C1532G	
			06037C1533G	
		4000000	06037C1534F ²	
		18030003	06037C1536G	
		18070102	06037C1537G	
		18070103	06037C1541G	
Los Angeles County,		18070104 18070105	06037C1542G	
Unincorporated Areas,	065043	18070103	06037C1551G	
continued		18070107	06037C1552G	
		18070203	06037C1553G	
		18090206	06037C1554F	
		18090208	06037C1561G	
		10030200	06037C1562G	
			06037C1580F	
			06037C1585F	
			06037C1590G	
			06037C1595G	
			06037C1613G	
			06037C1614G	
		06037C1637F		
		06037C1639F ²		
		06037C1641F ²		
		06037C1643F ²		
			06037C1645F	
			06037C1664F	
			06037C1665F	
			06037C1668F	
			06037C1670F	
			06037C1675F ²	
			06037C1695F	
			06037C1700F	
			06037C1725F	

Table 1: Listing of NFIP Jurisdictions, continued

		-		If Not Included,
Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	Location of Flood Hazard Data
Los Angeles County, Unincorporated Areas, continued	065043	18030003 18070102 18070103 18070105 18070106 18070107 18070203 18090206 18090208	06037C1750F 06037C1752G 06037C1754G 06037C1760F 06037C1767G 06037C1776G 06037C1780G 06037C1785G 06037C1785G 06037C1790F 06037C1805F 06037C1805F 06037C1820F 06037C1820F 06037C1830F 06037C1830F 06037C1839F 06037C1841F 06037C1841F 06037C1841F 06037C1841F 06037C1851F 06037C1861F 06037C1851F 06037C180F 06037C180F 06037C1841F 06037C1841F 06037C1841F 06037C1841F 06037C1841F 06037C1851F 06037C1900F 06037C1900F 06037C1940F 06037C1941G 06037C1941G 06037C1941G 06037C200F 06037C220F	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Community	OID	Oub-Dasin(s)	06037C1805F 06037C1815F	Hazaiu Dala
Lynwood, City of	060635		06037C1820F	
Malibu, City of	060745	18070104	06037C1485F 06037C1491G 06037C1492G 06037C1511G 06037C1512G 06037C1513G 06037C1514G 06037C1516F 06037C1517G 06037C1518G 06037C1519G 06037C1536G 06037C1538G 06037C1538G 06037C1539G 06037C1541G 06037C1541G 06037C1542G 06037C1542G	
Manhattan Beach, City of ¹	060138	18070104 18070106	06037C1768G 06037C1769G 06037C1907G	
Maywood, City of ¹	060651	18070105	06037C1805F 06037C1810F	
Monrovia, City of ¹	065046	18070105 18070106	06037C1400F 06037C1405F ² 06037C1415F 06037C1675F ² 06037C1700F	
Montebello, City of ¹	060141	18070105	06037C1645F 06037C1663F 06037C1664F 06037C1665F 06037C1810F 06037C1830F	
Monterey Park, City of ¹	065047	18070105	06037C1635F ² 06037C1641F ² 06037C1645F 06037C1663F 06037C1665F 06037C1675F ²	
Norwalk, City of	060652	18070106	06037C1837F 06037C1839F 06037C1840F 06037C1841F 06037C1843F	

Table 1: Listing of NFIP Jurisdictions, continued

HUC-8 Located on FIRM Panel(s) Hazard Data
Community CID Sub-Basin(s) Located on FIRM Panel(s) Hazard Data 06037C0400F 06037C0415F 06037C0420F 06037C0442F 06037C0444F 06037C0464F 06037C0464F 06037C0466F
06037C0400F 06037C0415F 06037C0420F 06037C0442F 06037C0444F 06037C0450F 06037C0462F 06037C0464F 06037C0466F
06037C0415F 06037C0420F 06037C0442F 06037C0444F 06037C0450F 06037C0462F 06037C0464F 06037C0465F
06037C0420F 06037C0442F 06037C0444F 06037C0450F 06037C0462F 06037C0464F 06037C0465F 06037C0466F
06037C0442F 06037C0444F 06037C0450F 06037C0462F 06037C0464F 06037C0465F 06037C0466F
06037C0444F 06037C0450F 06037C0462F 06037C0464F 06037C0465F 06037C0466F
06037C0450F 06037C0462F 06037C0464F 06037C0465F 06037C0466F
06037C0462F 06037C0464F 06037C0465F 06037C0466F
06037C0464F 06037C0465F 06037C0466F
06037C0465F 06037C0466F
06037C0466F
06037C0635F
06037C0645G
06037C0651F
06037C0652F ²
06037C0653E
Palmdale City of 060144 18070102 06037C0654E
18090206 06037C0656F
06037C0657F
06037C0658F
06037C0659F
06037C0665F
06037C0670F
06037C0694F
06037C0700F
06037C0701F
06037C0702F
06037C0703F
06037C0704F
06037C0706F
06037C0710F
06037C0711F
06037C0713F
06037C1916H
06037C1917H
Palos verdes
Estates, City of 18070106 00037C1910H
06037C1940F
Paramount, City of 065049 18070105 06037C1815F
18070106 06037C1820F
06037C1125F ²
Pasadena, City of 065050 18070105 06037C1375F
06037C1400F
06037C1635F ²
06037C1663F
18070105 06037C1664F
Pico Rivera, City of
06037C1829F
06037C1830F

Table 1: Listing of NFIP Jurisdictions, continued

		-		If Not Included,
		HUC-8		Location of Flood
Community	CID	Sub-Basin(s)	Located on FIRM Panel(s)	Hazard Data
·	060140	18070106	06037C1725F	
Pomona, City of ¹	060149	18070203	06037C1750F	
			06037C1917H	
			06037C1918H	
			06037C1919H	
Rancho Palos	000404	18070104	06037C1940F	
Verdes, City of ¹	060464	18070106	06037C1943G	
			06037C2006G 06037C2007G	
			06037C2007G	
			06037C2027G	
			06037C2031G	
			06037C1769G,	
			06037C1790F,	
Redondo Beach, City of	060150	18070104	06037C1907G,	
Redorido Beach, City of	000130	18070106	06037C1909G, 06037C1928F,	
			06037C1926F,	
			06037C1940F	
Rolling Hills, City of ¹	060151	18070104 18070106	06037C2026G	
			06037C2027G	
Rolling Hills		18070104	06037C1919H	
Estates, City of ¹	065054	18070106	06037C1940F	
			06037C1665F	
Rosemead, City of ¹	060153	18070105	06037C1675F ²	
San Dimas, City of	060154	18070106	06037C1440F	
			06037C1445F	
_			06037C1725F	
San Fernando, City of ¹	060628	18070105	06037C1075G	
San Gabriel, City of ¹	065055	18070105	06037C1675F ²	
	065057	18070105	06037C1375F	
San Marino, City of ¹			06037C1400F	
Gan Manno, City of			06037C1635F ²	
			06037C1675F ²	
	060729	18070102 18070105	06037C0805G 06037C0810G	
			06037C0815G	
			06037C0816G	
Santa Clarita, City of			06037C0817G	
			06037C0818G	
			06037C0819G	
			06037C0830G	
			06037C0835G	
			06037C0840G	
			06037C0845G	
			06037C1030F	
			06037C1031G	
			06037C1032G	
			06037C1034F 06037C1051G	
			06037C1051G	
		16	00007010700	

Table 1: Listing of NFIP Jurisdictions, continued

		11110 0		If Not Included,
Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	Location of Flood Hazard Data
Community	OID	ous Busin(s)	06037C1829F	Hazara Data
			06037C1830F	
			06037C1835F	
			06037C1837F	
Santa Fe	060158	18070106	06037C1839F	
Springs, City of	000100	10070100	06037C1840F	
			06037C1841F	
			06037C1843F	
			06037C1844F	
Santa Monica, City of		18070104	06037C1567G	
	000450		06037C1569G	
	060159		06037C1588G,	
			06037C1589G ²	
			06037C1590G	
			06037C1751G	
Sierra Madre, City of ¹	065059	18070105	06037C1400F	
Signal Hill, City of ¹	060161	18070105	06037C1960F	
	000101	18070106	06037C1966G ²	
			06037C1967G	
Courth El Monto City of	000460	18070105	06037C1665F	
South El Monte, City of ¹	060162	18070106	06037C1670F 06037C1675F ²	
			06037C1805F	
		18070105	06037C1803F	
South Gate, City of	060163	18070106	06037C1815F	
			06037C1820F	
Cth-				
South	065061	18070105	06037C1375F	
Pasadena, City of ¹			06037C1635F ²	
Temple City, City of ¹	060653	18070105	06037C1675F ²	
	060165	18070104 18070106	06037C1790F,	
			06037C1907G, 06037C1909G,	
			06037C1909G, 06037C1917H,	
T 0'' (06037C191711, 06037C1928F,	
Torrance, City of			06037C1930F,	
			06037C1935F,	
			06037C1940F,	
			06037C1941G	
			06037C1638G	
			06037C1639F ²	
Vernon, City of ¹	060166	18070105	06037C1643F ²	
,			06037C1805F	
			06037C1810F	
Walnut, City of ¹	065069	18070106	06037C1695F	
vvailut, Oity Oi	000003	10070100	06037C1725F	
West Covina, City of	060666	18070106	06037C1695F 06037C1700F	
vvest Covina, City of	060666	18070106	06037C1700F 06037C1725F	
			06037C1585F	
West Hollywood, City of	060720	18070104	06037C1605F	
		L	1 2230. 0.000.	L

Table 1: Listing of NFIP Jurisdictions, continued

	O.D.	HUC-8		If Not Included, Location of Flood
Community	CID	Sub-Basin(s)	Located on FIRM Panel(s)	Hazard Data
Westlake Village, City of	060744	18070104	06037C1239G 06037C1240F ² 06037C1241F 06037C1243G 06037C1502G 06037C1505F ²	
Whittier, City of	060169	18070105 18070106	06037C1664F 06037C1668F 06037C1670F 06037C1830F 06037C1835F 06037C1842F 06037C1851F 06037C1853F 06037C1853F	

¹ No Special Flood Hazard Areas Identified

1.4 Considerations for using this Flood Insurance Study Report

The NFIP encourages State and local governments to implement sound floodplain management programs. To assist in this endeavor, each FIS Report provides floodplain data, which may include a combination of the following: 10-, 4-, 2-, 1-, and 0.2-percent annual chance flood elevations (the 1% annual chance flood elevation is also referred to as the Base Flood Elevation (BFE)); delineations of the 1% annual chance and 0.2% annual chance floodplains; and 1% annual chance floodway. This information is presented on the FIRM and/or in many components of the FIS Report, including Flood Profiles, Floodway Data tables, Summary of Non-Coastal Stillwater Elevations tables, and Coastal Transect Parameters tables (not all components may be provided for a specific FIS).

This section presents important considerations for using the information contained in this FIS Report and the FIRM, including changes in format and content. Figures 1, 2, and 3 present information that applies to using the FIRM with the FIS Report.

Part or all of this FIS Report may be revised and republished at any time. In addition, part
of this FIS Report may be revised by a Letter of Map Revision (LOMR), which does not
involve republication or redistribution of the FIS Report. Refer to Section 6.5 of this FIS
Report for information about the process to revise the FIS Report and/or FIRM.

It is, therefore, the responsibility of the user to consult with community officials by contacting the community repository to obtain the most current FIS Report components. Communities participating in the NFIP have established repositories of flood hazard data for floodplain management and flood insurance purposes. Community map repository addresses are provided in Table 31, "Map Repositories," within this FIS Report.

² Panel Not Printed

New FIS Reports are frequently developed for multiple communities, such as entire
counties. A countywide FIS Report incorporates previous FIS Reports for individual
communities and the unincorporated area of the county (if not jurisdictional) into a single
document and supersedes those documents for the purposes of the NFIP.

The initial Countywide FIS Report for Los Angeles County became effective on September 26, 2008. Refer to Table 28 for information about subsequent revisions to the FIRMs.

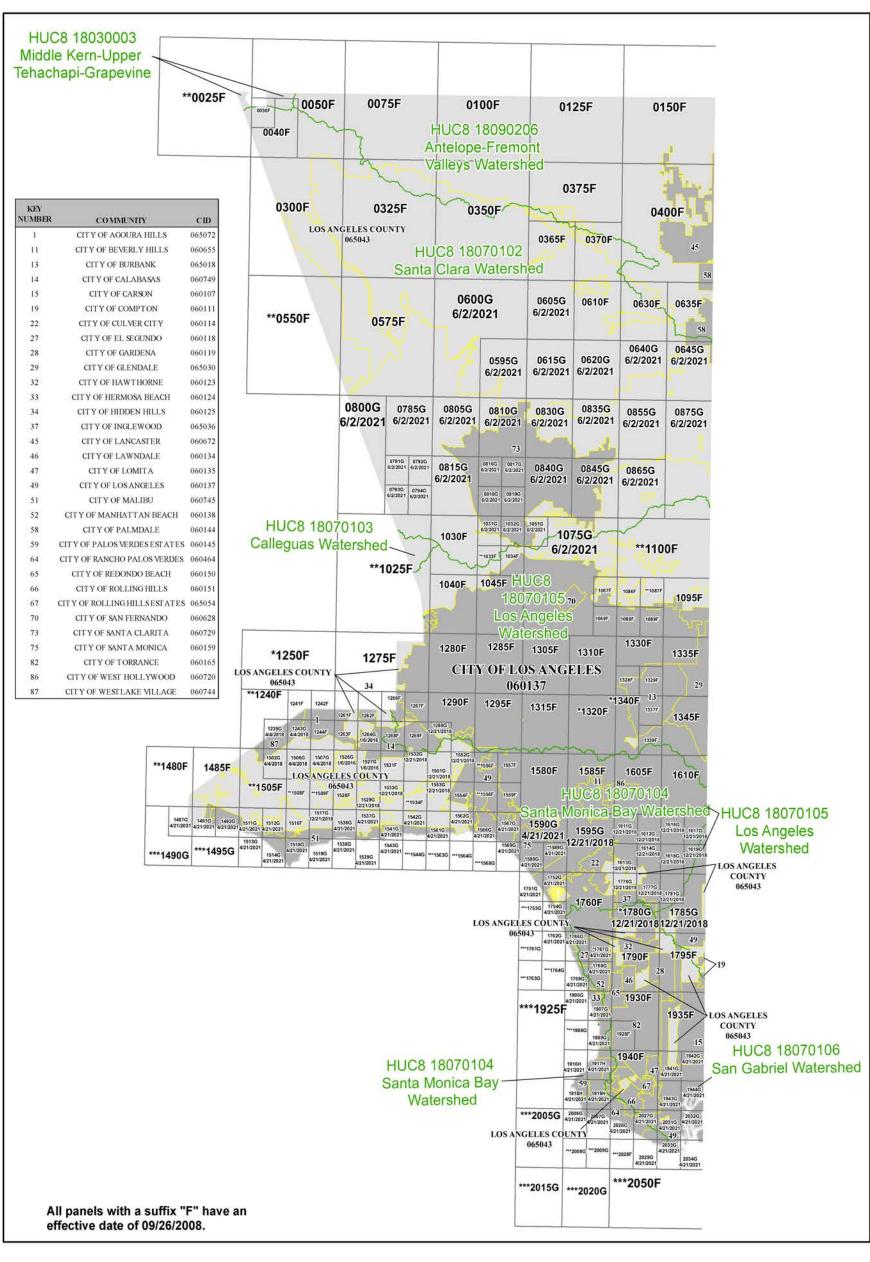
Previous FIS Reports and FIRMs may have included levees that were accredited as reducing the risk associated with the 1% annual chance flood based on the information available and the mapping standards of the NFIP at that time. For FEMA to continue to accredit the identified levees, the levees must meet the criteria of the Code of Federal Regulations, Title 44, Section 65.10 (44 CFR 65.10), titled "Mapping of Areas Protected by Levee Systems."

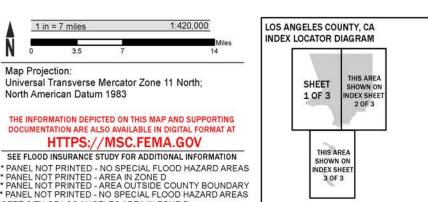
Since the status of levees is subject to change at any time, the user should contact the appropriate agency for the latest information regarding levees presented in Table 9 of this FIS Report. For levees owned or operated by the U.S. Army Corps of Engineers (USACE), information may be obtained from the USACE national levee database (nld.usace.army.mil) For allother levees, the user is encouraged to contact the appropriate local community.

• FEMA has developed a *Guide to Flood Maps* (FEMA 258) and online tutorials to assist users in accessing the information contained on the FIRM. These include how to read panels and step-by-step instructions to obtain specific information. To obtain this guide and other assistance in using the FIRM, visit the FEMA Web site at www.fema.gov/online-tutorials.

The FIRM Index in Figure 1 shows the overall FIRM panel layout within Los Angeles County, and also displays the panel number and effective date for each FIRM panel in the county. Other information shown on the FIRM Index includes community boundaries, watershed boundaries, and United States Geological Survey (USGS) Hydrologic Unit Code – 8 (HUC-8) codes.

Figure 1: FIRM Panel Index



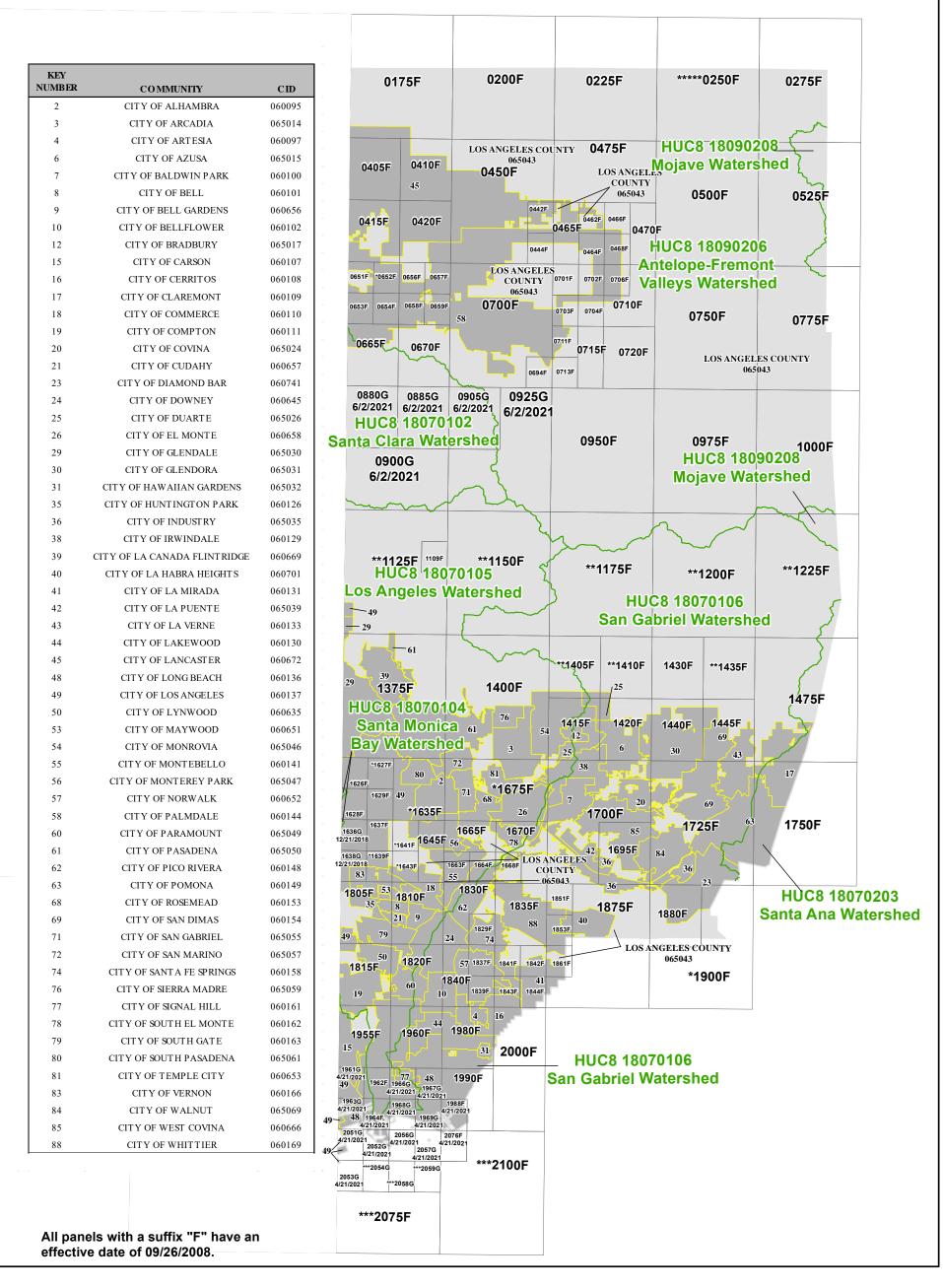


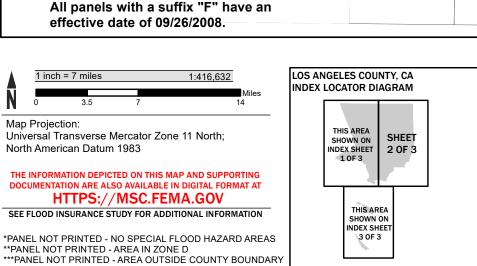
EXCEPT CITY OF LOS ANGELES AREA IN ZONE D
***** PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREAS

EXCEPT EDWARDS AIR FORCE BASE AREA IN ZONE D

NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP INDEX LOS ANGELES COUNTY, CALIFORNIA and Incorporated Areas SHEET 1 OF 3 PANELS PRINTED: 0036, 0040, 0050, 0075, 0100, 0125, 0150, 0300, 0325, 0350, 0365, 0370, 0375, 0400, 0575, 0595, 0600, 0605, 0610, 0615, 0620, 0630, 0635, 0640, 0645, 0785, 0791, 0792, 0793, 0794, 0800, 0805, 0810, 0815, 0816, 0817, 0818, 0819, 0830, 0835, 0840, 0845, 0855, 0865, 0875, 1030, 1031, 1032, 1034, 1040, 1045, 1051, 1067, 1069, 1075, 1086, 1088, 1089, 1095, 1239, 1241, 1242, 1243, 1244, 1261, 1262, 1263, 1264, 1266, 1267, 1268, 1269, 1275, 1280, 1285, 1288, 1290, 1295, 1305, 1310, 1315, 1328, 1329, 1330, 1335, 1337, 1339, 1345, 1485, 1487, 1490, 1491, 1492, 1502, 1506, 1507, 1513, 1514, 1516, 1517, 1518, 1519, 1526, 1527, 1528, 1529, 1531, 1532, 1533, 1563, 1537, 1538, 1539, 1541, 1542, 1543, 1551, 1552, 1553, 1554, 1557, 1559, 1561, 1562, 1566, 1567, 1569, 1580, 1595, 1605, 1610, 1611, 1612, 1613, 1614, 1616, 1617, 1585, 1618, 1619, 1795, 1796, 1795, 1906, 1907, 1909, 1916, 1917, 1918, 1919, 1928, 1930, 1935, 1940, 1941, 1942, 1943, 1944, 2006, 2007, 2025, 2026, 2027, 2029, 2031, 2032, 2033, 2034

Figure 1: FIRM Panel Index





****PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREAS EXCEPT CITY OF LOS ANGELES AREA IN ZONE D
*****PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREAS

EXCEPT EDWARDS AIR FORCE BASE AREA IN ZONE D

NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP INDEX

SHEET 2 OF 3

LOS ANGELES COUNTY, CALIFORNIA and Incorporated Areas

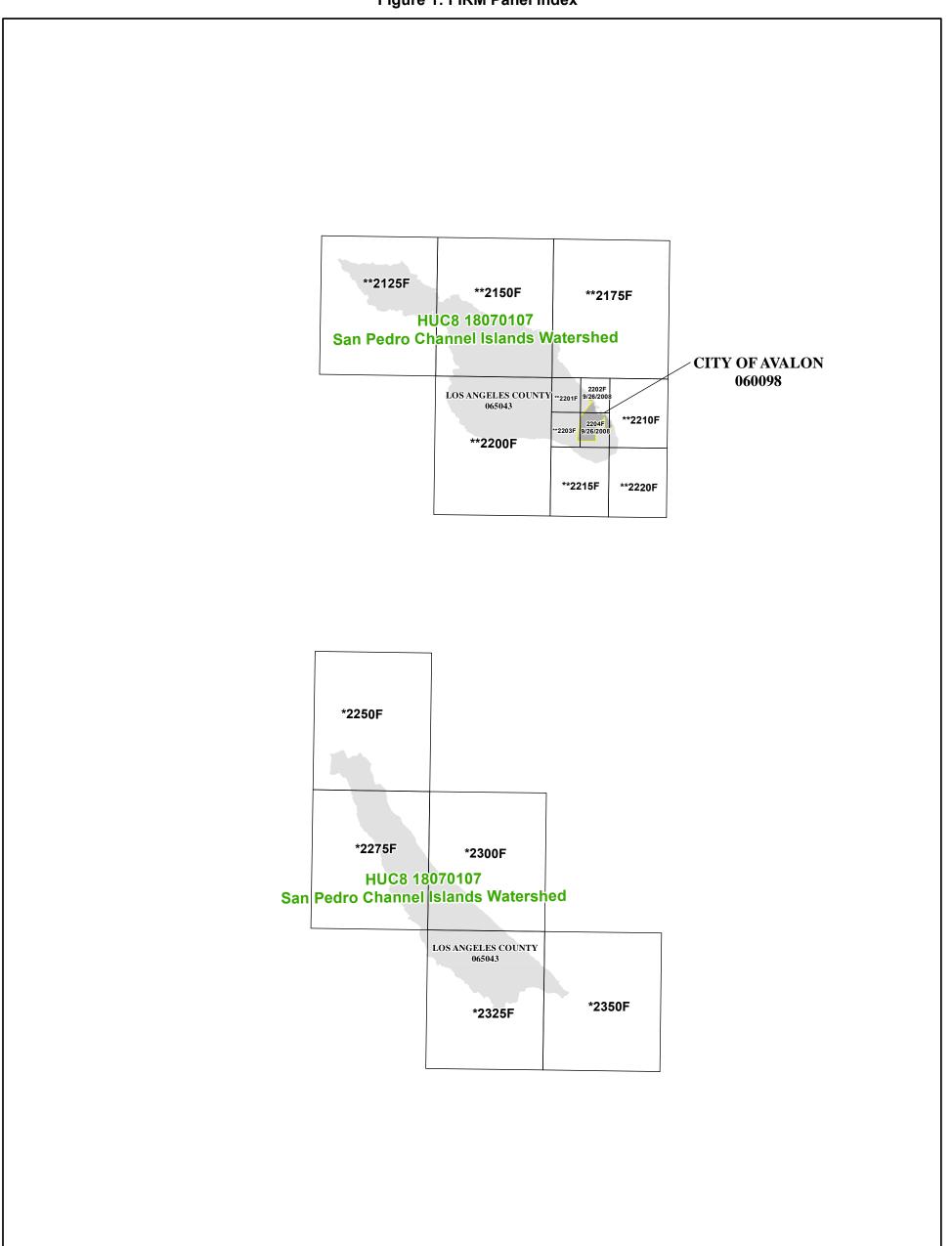
PANELS PRINTED:

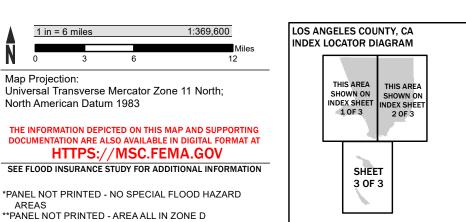
0175, 0200, 0225, 0275, 0405, 0410, 0415, 0420, 0442, 0444, 0450, 0462, 0464, 0465, 0466, 0468, 0470, 0475, 0500, 0525, 0651, 0653, 0654, 0656, 0657, 0658, 0658, 0657, 0658 $0659,\,0665,\,0670,\,0694,\,0700,\,0701,\,0702,\,0703,\,0704,\,0706,\,0710,\,0711,\,0713,$ 0715, 0720, 0750, 0775, 0880, 0885, 0900, 0905, 0925, 0950, 0975, 1000, 1109, 1375, 1400, 1415, 1420, 1430, 1440, 1445, 1475, 1626, 1628, 1629, 1636, 1637, 1638, 1645, 1663, 1664, 1665, 1668, 1670, 1695, 1700, 1725, 1750, 1805, 1810, 1815, 1820, 1829, 1830, 1835, 1837, 1839, 1840, 1841, 1842, 1843, 1844, 1851, 1853, 1861, 1875, 1880, 1955, 1960, 1961, 1962, 1963, 1964, 1966, 1967, 1968, 1969, 1988, 1990, 2051, 2052, 2053, 2056, 2057, 2060, 2076



MAP NUMBER 06037CIND2F MAP REVISED JUNE 2, 2021

Figure 1: FIRM Panel Index





NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP INDEX

LOS ANGELES COUNTY, CALIFORNIA and Incorporated Areas

SHEET 3 OF 3

PANELS PRINTED:

2202, 2204



MAP NUMBER 06037CIND3F MAP REVISED JUNE 2, 2021 Each FIRM panel may contain specific notes to the user that provide additional information regarding the flood hazard data shown on that map. However, the FIRM panel does not contain enough space to show all the notes that may be relevant in helping to better understand the information on the panel. Figure 2 contains the full list of these notes.

Figure 2: FIRM Notes to Users

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates, refer to Table 28 in this FIS Report.

To determine if flood insurance is available in the community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

The map is for use in administering the NFIP. It may not identify all areas subject to flooding, particularly from local drainage sources of small size. Consult the community map repository to find updated or additional flood hazard information.

BASE FLOOD ELEVATIONS: For more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables within this FIS Report. Use the flood elevation data within the FIS Report in conjunction with the FIRM for construction and/or floodplain management.

Coastal Base Flood Elevations shown on the map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD88). Coastal flood elevations are also provided in the Coastal Transect Parameters table in the FIS Report for this jurisdiction. Elevations shown in the Coastal Transect Parameters table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on the FIRM.

FLOODWAY INFORMATION: Boundaries of the floodways were computed at cross sections and <u>interpolated between cross sections</u>. 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 FIS Report for this jurisdiction.

FLOOD CONTROL STRUCTURE INFORMATION: Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 4.3 "Non-Levee Flood Protection Measures" of this FIS Report for information on flood control structures for this jurisdiction.

Figure 2: FIRM Notes to Users, continued

<u>PROJECTION INFORMATION</u>: The projection used in the preparation of the map was Universal Transverse Mercator (UTM) Zone 11N. The horizontal datum was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or State Plane 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 the FIRM.

<u>ELEVATION DATUM</u>: Flood elevations on the FIRM 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/.

Local vertical monuments may have been used to create the map. To obtain current monument information, please contact the appropriate local community listed in Table 31 of this FIS Report.

BASE MAP INFORMATION: Base map information shown on this FIRM was derived from multiple sources. Vector base map data was provided by the Los Angeles County Department of Public Works and the Los Angeles County GIS Department. Digital ortho imagery was collected by the U.S. Department of Agriculture National Agriculture Imagery Program (NAIP). This imagery was flown in 2014 and was produced with a 1-meter ground sample distance. For information about base maps, refer to Section 6.2 "Base Map" in this FIS Report.

The 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 conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables may reflect stream channel distances that differ from what is shown on the map.

Corporate limits shown on the 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 the map was published, map users should contact appropriate community officials to verify current corporate limit locations.

NOTES FOR FIRM INDEX

<u>REVISIONS TO INDEX</u>: As new studies are performed and FIRM panels are updated within Los Angeles County, California, corresponding revisions to the FIRM Index will be incorporated within the FIS Report to reflect the effective dates of those panels. Please refer to Table 28 of this FIS Report to determine the most recent FIRM revision date for each community. The most recent FIRM panel effective date will correspond to the most recent index date.

ATTENTION: The corporate limits shown on this FIRM Index are based on the best information available at the time of publication. As such, they may be more current than those shown on FIRM panels issued before June 2, 2021.

Figure 2: FIRM Notes to Users, continued

SPECIAL NOTES FOR SPECIFIC FIRM PANELS

This Notes to Users section was created specifically for Los Angeles County, California, effective June 2, 2021.

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 www.fema.gov/national-flood-insurance-program.

<u>FLOOD RISK REPORT</u>: A Flood Risk Report (FRR) may be available for many of the flooding sources and communities referenced in this FIS Report. The FRR is provided to increase public awareness of flood risk by helping communities identify the areas within their jurisdictions that have the greatest risks. Although non-regulatory, the information provided within the FRR can assist communities in assessing and evaluating mitigation opportunities to reduce these risks. It can also be used by communities developing or updating flood risk mitigation plans. These plans allow communities to identify and evaluate opportunities to reduce potential loss of life and property. However, the FRR is not intended to be the final authoritative source of all flood risk data for a project area; rather, it should be used with other data sources to paint a comprehensive picture of flood risk.

Each FIRM panel contains an abbreviated legend for the features shown on the maps. However, the FIRM panel does not contain enough space to show the legend for all map features. Figure 3 shows the full legend of all map features. Note that not all of these features may appear on the FIRM panels in Los Angeles County.

Figure 3: Map Legend for FIRM

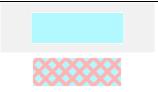
SPECIAL FLOOD HAZARD AREAS: The 1% annual chance flood, also known as the base flood or 100-year flood, has a 1% chance of happening or being exceeded each year. Special Flood Hazard Areas are subject to flooding by the 1% annual chance flood. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood. 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. See note for specific types. If the floodway is too narrow to be shown, a note is shown.

- Special Flood Hazard Areas subject to inundation by the 1% annual chance flood (Zones A, AE, AH, AO, AR, A99, V and VE)
- Zone A The flood insurance rate zone that corresponds to the 1% annual chance floodplains. No base (1% annual chance) flood elevations (BFEs) or depths are shown within this zone.
- Zone AE The flood insurance rate zone that corresponds to the 1% annual chance floodplains. Base flood elevations derived from the hydraulic analyses are shown within this zone, either at cross section locations or as static whole-foot elevations that apply throughout the zone.
- Zone AH The flood insurance rate zone that corresponds to the areas of 1% annual chance shallow flooding (usually areas of ponding) where average depths are between 1 and 3 feet. Whole-foot BFEs derived from the hydraulic analyses are shown at selected intervals within this zone.
- Zone AO The flood insurance rate zone that corresponds to the areas of 1% annual chance shallow flooding (usually sheet flow on sloping terrain) where average depths are between 1 and 3 feet. Average whole-foot depths derived from the hydraulic analyses are shown within this zone.
- Zone AR The flood insurance rate zone that corresponds to areas that were formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. 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 The flood insurance rate zone that corresponds to areas of the 1% annual chance floodplain that will be protected by a Federal flood protection system where construction has reached specified statutory milestones. No base flood elevations or flood depths are shown within this zone.
 - Zone V The flood insurance rate zone that corresponds to the 1% annual chance coastal floodplains that have additional hazards associated with storm waves. Base flood elevations are not shown within this zone.
- Zone VE Zone VE is the flood insurance rate zone that corresponds to the 1% annual chance coastal floodplains that have additional hazards associated with storm waves. Base flood elevations derived from the coastal analyses are shown within this zone as static whole-foot elevations that apply throughout the zone.



Regulatory Floodway determined in Zone AE.

Figure 3: Map Legend for FIRM, continued



FLOOD INSURANCE IS NOT AVAILABLE FOR STRUCTURES NEWLY BUILT OR SUBSTANTIALLY IMPROVED ON OR AFTER APRIL 8, 1987, IN THE DESIGNATED COLORADO RIVER FLOODWAY Non-encroachment zone (see Section 2.4 of this FIS Report for more information)

The Colorado River Floodway was established by Congress in the Colorado River Floodway Protection Act of 1986, Public Law 99-450 (100 Statute 1129). The Act imposes certain restrictions within the Floodway.

OTHER AREAS OF FLOOD HAZARD



Shaded Zone X: Areas of 0.2% annual chance flood hazards and areas of 1% annual chance flood hazards with average depths of less than 1 foot or with drainage areas less than 1 square mile.



Future Conditions 1% Annual Chance Flood Hazard – Zone X: The flood insurance rate zone that corresponds to the 1% annual chance floodplains that are determined based on future-conditions hydrology. No base flood elevations or flood depths are shown within this zone.



Area with Reduced Flood Risk due to Levee: Areas where an accredited levee, dike, or other flood control structure has reduced the flood risk from the 1% annual chance flood. See Notes to Users for important information.

OTHER AREAS

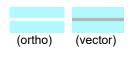


Zone D (Areas of Undetermined Flood Hazard): The flood insurance rate zone that corresponds to unstudied areas where flood hazards are undetermined, but possible.

NO SCREEN

Unshaded Zone X: Areas of minimal flood hazard.

FLOOD HAZARD AND OTHER BOUNDARY LINES



Flood Zone Boundary (white line on ortho-photography-based mapping; gray line on vector-based mapping)

Limit of Study

Jurisdiction Boundary

Limit of Moderate Wave Action (LiMWA): Indicates the inland limit of the area affected by waves greater than 1.5 feet

GENERAL STRUCTURES

Aqueduct Channel Culvert Storm Sewer

Channel, Culvert, Aqueduct, or Storm Sewer

	Figure 3: Map Legend for FIRM, continued
Dam Jetty Weir	Dam, Jetty, Weir
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Levee, Dike or Floodwall
Bridge	Bridge
	COURCES SYSTEM (CBRS) AND OTHERWISE PROTECTED AREAS OPAs are normally located within or adjacent to Special Flood Hazard for important information.
CBRS AREA 09/30/2009	Coastal Barrier Resources System Area: Labels are shown to clarify where this area shares a boundary with an incorporated area or overlaps with the floodway.
OTHERWISE PROTECTED AREA 09/30/2009	Otherwise Protected Area
REFERENCE MARKERS	
22.0	River mile Markers
CROSS SECTION & TRA	NSECT INFORMATION
(B) 20.2	Lettered Cross Section with Regulatory Water Surface Elevation (BFE)
<u> </u>	Numbered Cross Section with Regulatory Water Surface Elevation (BFE)
17.5	Unlettered Cross Section with Regulatory Water Surface Elevation (BFE)
8	Coastal Transect
	Profile Baseline: Indicates the modeled flow path of a stream and is shown on FIRM panels for all valid studies with profiles or otherwise established base flood elevation.
	Coastal Transect Baseline: Used in the coastal flood hazard model to represent the 0.0-foot elevation contour and the starting point for the transect and the measuring point for the coastal mapping.

F	Figure 3: Map Legend for FIRM, continued
~~~ 513 ~~~~	Base Flood Elevation Line (shown for flooding sources for which no cross sections or profile are available)
ZONE AE (EL 16)	Static Base Flood Elevation value (shown under zone label)
ZONE AO (DEPTH 2)	Zone designation with Depth
ZONE AO (DEPTH 2) (VEL 15 FPS)	Zone designation with Depth and Velocity
BASE MAP FEATURES	
Malibu Creek	River, Stream or Other Hydrographic Feature
234	Interstate Highway
234	U.S. Highway
(234)	State Highway
234	County Highway
MAPLE LANE	Street, Road, Avenue Name, or Private Drive if shown on Flood Profile
RAILROAD	Railroad
	Horizontal Reference Grid Line
	Horizontal Reference Grid Ticks
+	Secondary Grid Crosshairs
Land Grant	Name of Land Grant
7	Section Number
R. 43 W. T. 22 N.	Range, Township Number
⁴² 76 ^{000m} E	Horizontal Reference Grid Coordinates (UTM)
365000 FT	Horizontal Reference Grid Coordinates (State Plane)
80° 16' 52.5"	Corner Coordinates (Latitude, Longitude)

Table 2: Flooding Sources Included in this FIS Report

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Acton Canyon	Los Angeles County	Confluence with Santa Clara River	0.6 miles upstream of Aliso Street	18070102	1.8		Y	AE	2015
Agua Amarge Canyon Creek	City of Palos Verdes Estates	_	_	18070104	0.7	_	N	Α	_
Agua Dulce Canyon Creek	Los Angeles County	Confluence with Santa Clara River	Approximately 0.5 miles upstream of Schaefer Rd	18070102	3.2		N	AE	2015
Agua Dulce Canyon Creek	Los Angeles County	Approximately 0.5 miles upstream of Schaefer Rd	Approximately 3400 feet upstream of Schaefer Rd	18070102	0.13	_	N	А	2015
Agua Dulce Canyon Creek	Los Angeles County	Approximately 3400 feet upstream of Schaefer Rd	Approximately 2000 feet upstream of Sierra Vista Drive	18070102	4.7	_	Y	AE	2015
Agua Dulce Canyon Creek	Los Angeles County	Approximately 1000 feet upstream of Anthony Rd	Approximately 250 feet upstream of Hierba Rd	18070102	0.2	l	Z	Α	2015
Agua Dulce Canyon Creek Lateral	Los Angeles County	Confluence with Agua Dulce Canyon Creek	Approximately 900 feet upstream of confluence with Agua Dulce Canyon Creek	18070102	0.2	Ι	Z	AE	2008
Alamitos Bay	City of Long Beach	_		18070106	1.9	_	N	Α	_
Aliso Canyon Creek	Los Angeles County	Confluence with Santa Clara River	Approximately 2.1 miles upstream of W Avenue Y8	18070102	3.1	_	N	AE	2015

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Amargosa Creek	City of Lancaster, Los Angeles County, City of Palmdale	_	_	18090206	13.8	_	N	A, AH, AO	1985
Amargosa Creek	Los Angeles County, City of Palmdale	_	_	18090206	6.4		N	AE	1985
Amargosa Creek	Los Angeles County, City of Palmdale	_	_	18090206	7.2	_	N	A, AO	1985
Amargosa Creek Tributary	City of Lancaster	_	_	18090206	0.1	_	N	Α	1979
Anaverde Creek	City of Palmdale	_	_	18090206	3.5	_	Υ	AE	1985
Anaverde Creek	City of Palmdale	_	_	18090206	2.0		N	Α	1985
Arrastre Canyon Creek	Los Angeles County	_	_	18070102	1.0	_	N	Α	1979
Arroyo Calabasas	City of Los Angeles	_	_	18070105	0.1	_	N	AE	_
Arroyo San Miguel	City of Whittier	_	_	18070106	0.1	_	N	Α	1978
Arroyo Sequit	Los Angeles County	_	_	18070104	2.3	_	N	А	_
Avalon Bay	City of Avalon	_	_	18070107	0.4	_	N	AE	_
Avalon Canyon	City of Avalon	At confluence with Pacific Ocean	0.9 miles upstream of confluence with Pacific Ocean	18070107	0.9	_	N	AE	_
Back Channel	City of Long Beach	_	_	18070106	0.9		N	AE	_
Ballona Creek	Culver City, City of; Los Angeles, City of; Los Angeles County, Unincorporated Areas	_	_	18070104	5.8	_	N	A,AE	1978
Ballona Creek Watershed	City of Culver City, City of Inglewood City of Los Angeles, Los Angeles County	_	_	18070104 18070105	*	_	N	AE	2016

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi ² ) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Bar Creek	City of Diamond Bar	_	_	18070106	0.1	_	N	A, AO	_
Bee Canyon (North)	Los Angeles County	_	_	18070102	0.8	_	N	А	1979
Bee Canyon (Mid)	Los Angeles County	_	_	18070102	0.8	_	N	Α	1979
Bee Canyon (South)	City of Los Angeles	_	_	18070105	0.6	_	N	А	1979
Big Rock Creek	Los Angeles County	_	_	18090206	9.3	_	N	А	1979
Big Rock Creek South Fork	Los Angeles County	_	_	18090206	1.2	_	N	А	1979
Big Rock Wash	Los Angeles County	_	_	18090206	12.1	_	N	А	1979
Big Rock Wash (Profile Base Line)	City of Palmdale	City of Palmdale Corporate Limits	City of Palmdale Corporate Limits	18090206	4.0		N	AE	1985
Big Tujunga Wash	City of Los Angeles	_	_	18070105	6.8	_	N	A, AO	1979
Boulder Canyon Creek	Los Angeles County	_	_	18090206	4.0	_	N	А	1979
Bouquet Canyon Creek	Los Angeles County, City of Santa Clarita	Confluence with Santa Clara River	0.4 miles upstream of Texas Canyon Road	18070102	7.8		Y	AE	2014
Bouquet Canyon Creek	Los Angeles County	0.4 miles upstream of Texas Canyon Road	Approximately 900 feet upstream of Sierra Pellona Mtwy	18070102	3.1	_	Y	AE	2015
Bouquet Reservoir	Los Angeles County	_	_	18070102	_	0.9	N	Α	1979
Broad Canyon Creek	Los Angeles County	_	_	18090206	8.9		N	А	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Browns Creek	City of Los Angeles	_	_	18070105	3.3	_	N	AE	1979
California Aqueduct	Los Angeles County	_	_	18090206	6.2	_	N	А	_
Canada De Los Alamos Creek	Los Angeles County	_	_	18070102	3.9	_	N	Α	1979
Carlos Canyon Creek	Los Angeles County	_	_	18070102	0.1	_	N	А	_
Carr Canyon Creek	Los Angeles County	_	_	18090206	0.3	_	N	Α	_
Castaic Creek	Los Angeles County	Confluence with Santa Clara River	Approximately 0.6 miles above Tapia Canyon Road	18070102	5.6		N	AE	2015
Castaic Lagoon	Los Angeles County	_		18070102		0.3	N	Α	1979
Castaic Lake	Los Angeles County	_	_	18070102	_	4.5	N	А	1979
Channel No. 2	City of Long Beach	_	_	18070104	0.8	_	N	AE	1991
Channel No. 3	City of Long Beach	_	_	18070104	0.7	_	N	AE	1991
Charlie Canyon Creek	Los Angeles County			18070102	2.0	l	N	Α	1979
Chatsworth Reservoir	City of Los Angeles	_	_	18070105	_	0.7	N	Α	1979
Cherry Canyon Creek	Los Angeles County	_	_	18070102	3.2	_	N	А	1979
Cheseboro Creek	City of Agoura Hills, Los Angeles County	Approximately 40 feet downstream of Driver Avenue	Approximately 400 feet upstream of confluence with Palo Comando Creek	18070104	0.6	_	N	AE	_
Cold Creek	Los Angeles County	Approximately 200 feet above confluence with Malibu Creek	Approximately 0.5 miles upstream of Cline Road	18070104	1.5	_	N	AE	2016
Cold Creek	Los Angeles County	_		18070104	2.3	_	N	Α	2016

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Colorado Lagoon	City of Long Beach	_	_	18070106	0.4	0.02	N	AE	1979
Compton Creek	City of Compton, City of Long Beach, Los Angeles County, City of Carson	Confluence with Los Angeles River	Approximately 400 feet upstream of Artesia Boulevard	18070105	2.3	-	N	А	1991
Consolidated Channel	City of Los Angeles	_	_	18070104	0.6	ı	N	AE	1979
Coyote Canyon Creek	City of Santa Clarita	_		18070102	0.7	_	N	Α	1979
Coyote Creek	City of Long Beach	_	_	18070106	2.6		N	Α	
Cruthers Creek	Los Angeles County	_	_	18090206	0.6	_	N	А	_
Dark Canyon	Los Angeles County	Confluence with Cold Creek	Approx. 70 ft upstream of Wild Rose Drive	18070104	0.5	_	N	AE	2016
Dark Canyon West Branch	Los Angeles County	_	_	18070104	0.2	_	N	Α	1979
Dewitt Canyon Creek	Los Angeles County	_	_	18070102	0.1	_	N	А	1979
Dominguez Channel	City of Carson, City of Gardena, City of Los Angeles	_	_	18070106	9.1		N	А	1978
Dorr Canyon Creek	Los Angeles County	_	_	18090206	1.0	_	N	А	1979
Dowd Canyon Creek	Los Angeles County	_	_	18070102	0.9	_	N	A, AO	1979
Dry Canyon	Los Angeles County, City of Calabasas	Approximately 2,360 feet upstream of the confluence with Cold Creek	Approximately 2.7 miles upstream of confluence with Cold Creek	18070104	2.3	_	N	AE	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi ² ) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Dry Canyon	City of Santa Clarita	_	_	18070102	0.4		N	A, AO	1979
East Basin	City of Los Angeles	_	_	18070104	2.6	_	N	AE	1979
Elizabeth Canyon Creek	Los Angeles County	_		18070102	2.9	_	N	Α	1979
Elizabeth Lake	Los Angeles County	_	_	18070102	_	0.3	N	А	1979
Elizabeth Lake Canyon Creek	Los Angeles County	_	_	18070102	5.0	_	N	Α	1979
Eller Slough	Los Angeles County	_	_	18090206	3.7	_	N	А	1979
Elsmere Canyon Creek	City of Santa Clarita	Confluence with Newhall Creek	Approximately 1.3 miles upstream of State Route 14	18070102	1.4	_	N	AE	2015
Encino Reservoir	City of Los Angeles	_		18070105	0.8		N	А	1979
Entrance Channel (Marina Del Ray)	Los Angeles County	_	_	18070104	0.5	_	N	AE	1979
Escondido Canyon	Los Angeles County	Confluence with Acton Canton Creek	1.7 miles upstream of confluence with Acton Canton Creek	18070102	1.7	I	Y	AE	2014
Escondido Canyon	City of Malibu, Los Angeles County	_	_	18070104	0.6	_	N	A, AE	_
Fenner Canyon Creek	Los Angeles County	_	_	18090206	0.3		N	Α	
Fish Harbor	City of Los Angeles	_		18070106	1.1	_	N	AE	1979
Flood Control Channel to Aliso Creek	City of Los Angeles	_	_	18070105	0.9	_	N	А	_

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Flowline No. 1	City of Santa Fe Springs	At Florence Avenue	Approximately 340 ft upstream of Telegraph Road	18070106	0.6	_	N	AE	1978
Garapito Creek	Los Angeles County	Approximately 3,100 feet upstream of confluence with Topango Canyon	Approximately 1.3 miles upstream of confluence with Topanga Canyon	18070104	1.3	П	N	AE	1979
Gavin Canyon Creek	Los Angeles County, City of Santa Clarita	_		18070102	1.0	_	N	Α	_
Gorman Creek	Los Angeles County	_	_	18070102	11.4	_	N	A, AH, AO	1979
Gorman Canyon Creek	City of Santa Clarita	_	_	18070102	0.9		N	A, AO	1984
Graham Canyon Creek	Los Angeles County	_	_	18090206	2.9	_	N	А	1979
Grandview Canyon Creek	Los Angeles County	_	_	18090206	7.2	_	N	А	1979
Harbor Lake	City of Los Angeles	_	_	18070106	0.6	0.07	N	AE	1979
Haskell Canyon	Los Angeles County, City of Santa Clarita	Confluence with Bouquet Canyon Creek	0.4 miles upstream of Copper Hill Drive	18070102	1.5	_	Y	AE	2014
Hasley Canyon Creek	Los Angeles County	Confluence with Castic Creek	0.3 miles upstream of Burlwood Drive	18070102	5.0	_	N	AE	2015
Holcomb Canyon Creek	Los Angeles County	_	_	18090206	0.9		N	А	1979
Holmes Creek	Los Angeles County	_	_	18090206	0.8		N	А	_
Hughes Lake	Los Angeles County	_	_	18070102	0.4	0.05	N	А	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Iron Canyon	Los Angeles County, City of Santa Clarita	Confluence with Sand Canyon Creek	0.8 miles upstream of North Iron Canyon Road	18070102	1.7	_	Y	AE	2010
Jesus Canyon Creek	Los Angeles County	_	_	18090206	3.3	_	N	А	_
Kagel Canyon	City of Los Angeles, Los Angeles County	Northwest edge of Osbourne Street	Approx. 505 ft upstream of Blue Sage Drive	18070105	1.3	_	Y	AE	1979
Kentucky Springs Canyon Creek	Los Angeles County	Confluence with Soledad Canyon	Approximately 600 feet upstream of Ghost Mine Road	18070102	2.6	ı	N	AE	2015
Lake Lindero	City of Agoura Hills, City of Westlake Village	_		18070104	0.3	0.02	N	А	1979
La Mirada Creek	City of La Mirada	Approximately 770 feet upstream of Roma Drive	At Stamy Road (Extended)	18070106	1.5	l	N	AE	1979
Lake Palmdale	Los Angeles County	_	_	18090206	1.1	0.3	N	Α	1979
Lake Street Overflow	City of Burbank	Convergence with Burbank Western Flood Control Channel	Approx. 310 ft. upstream of Chestnut Street	18070105	0.1	_	N	AE	_
Las Flores Canyon	Los Angeles County, City of Malibu	At Pacific Coast Highway	Approx. 830 ft. upstream of Las Flores Canyon Rd	18070104	0.8	_	N	AE	1979
Las Virgenes Creek	City of Calabasas, Los Angeles County	Approx. 440 feet upstream of confluence with Malibu Creek	Approx. 2,030 feet upstream of Highway 101	18070104	4.7	_	N	AE	2010
Leaming Canyon Creek	Los Angeles County	_	_	18070102	0.2	_	N	Α	1979
Lemontaine Creek	Los Angeles County	_	_	18090206	2.5	_	N	А	1979

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Liberty Canyon	City of Agoura Hills, Los Angeles County	_	_	18070104	0.4	_	N	AE	1979
Limekiln Creek	City of Los Angeles	_	_	18070105	1.8	_	N	А	1979
Lindero Canyon	City of Agoura Hills, City of Westlake Village	Upstream edge of spillway into Lake Lindero	Approx. 1,250 feet upstream of Reyes Adobe Rd	18070104	1.4	_	N	AE	
Lion Canyon	Los Angeles County	At confluence with Santa Clara River	0.9 miles upstream of Seasoned Road	18070102	1.2	_	N	AE	2015
Little Rock Creek	Los Angeles County	_	_	18090206	6.3	_	N	Α	1979
Little Rock Reservoir	Los Angeles County	_	_	18090206	_	0.08	N	А	_
Little Rock Wash	City of Lancaster, Los Angeles County	_	_	18090206	14.5	_	N	Α	1985
Little Rock Wash	Los Angeles County	_	_	18090206	4.3	_	N	А	_
Little Rock Wash - Profile A	City of Palmdale	City of Palmdale Corporate Limits	City of Palmdale Corporate Limits	18090206	1.2	l	N	AE	1985
Little Rock Wash - Profile A	City of Palmdale	City of Palmdale Corporate Limits	City of Palmdale Corporate Limits	18090206	0.6	_	N	AE	1985
Little Rock Wash - Profile A	Los Angeles County	_	_	18090206	2.0		N	А	1
Little Rock Wash - Profile A	Los Angeles County, City of Palmdale	_	_	18090206	3.1	_	N	AE	1985

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Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi ² ) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Little Rock Wash - Profile A	Los Angeles County, City of Palmdale	_	_	18090206	3.0	_	N	Α	1985
Little Rock Wash - Profile B	City of Palmdale	City of Palmdale Corporate Limits	City of Palmdale Corporate Limits	18090206	1.4		N	AE	1985
Little Rock Wash - Profile C	Los Angeles County, City of Palmdale	_	-	18090206	0.9	ı	N	AE	1985
Little Tujunga Wash	Los Angeles County, City of Los Angeles	_	_	18070105	2.1	_	N	A, AO	1979
Lobo Canyon	Los Angeles County	Approx. 1,300 feet downstream of Lobo Canyon Road	Approx. 1.3 miles upstream of Lobo Canyon Road	18070104	1.6	_	N	AE	2015
Lockheed Drain Channel	City of Burbank, City of Los Angeles	Confluence with Burbank Western Flood Control Channel	Approximately 1.1 miles upstream of Access Road	18070105	2.9		N	AE	1978
Long Canyon	Los Angeles County	At confluence with Santa Clara River	2.4 miles upstream of confluence with Santa Clara River	18070102	2.4	-	N	AE	2015
Lopez Canyon Channel	Los Angeles County, City of Los Angeles	_	_	18070105	0.6	_	N	A, AE	1979
Los Angeles County Flood Control Channel	City of Los Angeles	_	_	18070105	0.9	_	N	Α	1979
Los Angeles County Flood Control Channel to Aliso Creek	City of Los Angeles	_	_	18070105	2.5	_	N	А	1979
Los Angeles County Storm Drain	City of Carson, Los Angeles County	_	_	18070104	1.7	_	N	А	1979
Los Angeles County Storm Drain (2)	City of Carson	_	_	18070104	1.4	_	N	Α	1979
Los Angeles Harbor	City of Los Angeles	_	_	18070104	2.8	_	N	AE	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Los Angeles Reservoir	City of Los Angeles	_	_	18070105	_	0.3	N	Α	1979
Los Angeles River	City of Compton, City of Cudahy, City of Long Beach, Los Angeles County, City of Paramount, City of South Gate, City of Los Angeles	_	_	18070105	21.7	П	N	A, AE	1991
Los Angeles River Flood Control Channel	City of Burbank		_	18070105	0.5		N	Α	1978
Los Cerritos Channel	City of Long Beach	_	_	18070106	4.7	_	N	А	1978
Lyon Canyon Creek	Los Angeles County, City of Santa Clarita	_	_	18070102	1.2	_	N	А	1979
Main Channel	City of Los Angeles	_	_	18070106	2.1	_	N	AE	1979
Malaga Canyon Creek	City of Palos Verdes Estates	ı	_	18070104	2.7		N	Α	_
Malibu Creek	Los Angeles County, City of Malibu	1		18070104	9.4	l	N	A, AE	1979
Malibu Lake	Los Angeles County	_	_	18070104	0.9	0.06	N	Α	1979
Marina Del Ray	Los Angeles County, City of Los Angeles	_	_	18070104	1.5	_	N	AE	1979
Marine Stadium	City of Long Beach		_	18070106	1.8	-	N	AE	1991
Medea Creek	City of Agoura Hills, Los Angeles County	At Mulholland Highway	Approx. 1,015 feet upstream of Cornell Road	18070104	2.9	_	N	AE	_
Middle Harbor	City of Long Beach		_	18070104	1.7	_	N	AE	1991

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi ² ) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Mill Creek	Los Angeles County	Approx. 70 feet upstream of Angeles Forest Highway	Approx. 1 mile upstream of Angeles Forest Highway	18070105	1.0		N	AE	
Milton B. Arthur Lakes	City of Long Beach	_	_	18070106	0.5	0.05	N	А	1991
Mint Canyon Creek	City of Santa Clarita	Confluence with Santa Clara River Trail	0.9 miles upstream of Rocking Horse Road	18070102	12.8	_	Y	AE	2010
Mint Canyon Creek Overflow	City of Santa Clarita	Confluence with Santa Clara River Trail	Immediately downstream of Adon Avenue	18070102	1.0	_	N	AE	2015
Mint Canyon Spring	Los Angeles County	_	_	18070102	0.3	_	N	Α	1979
Montebello Municipal Golf Course Pond	City of Montebello	_	_	18070105	0.1	0.001	N	А	1991
Morris Reservoir	Los Angeles County	_	_	18070106	_	0.5	N	AE	1979
Muscal Creek	Los Angeles County	_	_	18090106	5.3	_	N	Α	1979
Myrick Canyon Creek	Los Angeles County	_	_	18090206	2.1	_	N	А	1979
Newhall Creek	City of Santa Clarita	Confluence with South Fork Santa Clara River	Approximately 0.3 miles upstream of Molokai Road	18070102	3.1	-	Y	AE	2014
Newhall Creek Left Overbank 2	City of Santa Clarita	Confluence with Newhall Creek	Immediately below 5th Street	18070102	1.6	_	N	AE	2015
Newhall Creek Left Overbank 3	City of Santa Clarita	Confluence with Newhall Creek Left Overbank 2	Immediately below 12th Street	18070102	0.8	_	N	AE	2015

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Newhall Creek Right Overbank 1	City of Santa Clarita	Confluence with Newhall Creek	Approximately 175 feet upstream of Molokai Road	18070102	0.2	ı	Y	AE	2015
Oak Springs Canyon	City of Santa Clarita	Confluence with Santa Clara River	Approximately 0.3 miles upstream of Oak Spring	18070102	1.3	l	N	AE, AO	2015
Oak Springs Canyon Overflow	City of Santa Clarita	Confluence with Oak Springs Canyon Creek	Divergence from Oak Springs Canyon Creek	18070102	0.4		N	AE	2015
Oakgrove Canyon Creek	Los Angeles County	_	_	18090206	0.7	_	N	Α	1979
Old Topanga Canyon	Los Angeles County	8,000 feet above mouth	Approx. 285 ft upstream of Valley Drive	18070104	3.3		N	A, AE	2016
Oro Fino Canyon Creek	City of Santa Clarita	_	_	18070102	0.3	_	N	Α	1984
Oso Canyon Creek	Los Angeles County	_	_	18090206	3.7	_	N	А	1979
Overflow Area of Lockheed Drain Channel	City of Los Angeles	At Vanowen Street	At Southern Pacific Railroad	18070105	0.1	_	N	AE	1978
Pacific Ocean	City of Avalon, City of El Segundo, City of Hermosa Beach, City of Los Angeles, Los Angeles County, City of Malibu, City of Manhattan Beach, City of Redondo Beach, City of Santa Monica City of Torrance	_	_	18070104	70	_	N	A, AE, V, VE, X	2015
Pacific Terrace Harbor	City of Long Beach	_	_	18070106	0.3	_	N	AE	1991
Pacoima Channel	City of Los Angeles	_	_	18070105	1.5		N	А	1979
Pacoima Wash	Los Angeles County, City of Los Angeles	_	_	18070105	1.9	_	N	A, AO	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Pallett Creek	Los Angeles County	_	_	18090206	15.9	_	N	Α	1979
Palmdale Ditch	Los Angeles County	_	_	18090206	1.4		N	А	_
Palo Comando Creek	City of Agoura Hills, Los Angeles County	Confluence with Cheseboro Creek	County limits	18070104	1.3		N	AE	_
Palomas Canyon Creek	Los Angeles County	_	_	18070102	0.1	_	N	Α	_
Pico Canyon	Los Angeles County, City of Santa Clarita	Confluence with South Fork Santa Clara River Tributary	Approximately 800 feet upstream of Stevenson Ranch Parkway	18070102	1.7		N	A, AE	2015
Pine Canyon Creek	Los Angeles County, City of Palmdale	_	_	18070102	6.9	_	N	Α	1985
Piru Creek	Los Angeles County	_	_	18070102	1.7	_	N	Α	1979
Placerita Creek	Los Angeles County, City of Santa Clarita	Confluence with Newhall Creek	Approximately 1400 feet upstream of Placerita Canyon Road	18070102	4.5	_	Y	AE	2015
Placerita Creek Overflow	City of Santa Clarita	Confluence with Newhall Creek	Approximately 1.6 miles upstream of confluence with Newhall Creek	18070102	1.7	_	N	AO, AE	2015
Plum Canyon Creek	Los Angeles County	Confluence with Bouquet Canyon Creek	Approximately 0.3 miles upstream of Rodgers Drive	18070102	0.8	_	N	AE	2015
Plum Canyon Creek	Los Angeles County	Just downstream of Plum Canyon Road	Approximately 1.1 miles upstream of Plum Canyon Road	18070102	1.1	_	N	А	2019
Portal Ridge Wash	City of Lancaster	_	_	18090206	1.4	_	N	АН	1979

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Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Potrero Canyon	Los Angeles County	Confluence with Santa Clara River	Approximately 3.7 miles upstream of Potrero Canyon Road	18070102	4.0		N	AE	2015
Potrero Valley Creek (Westlake Lake)	City of Westlake Village	_	_	18070104	0.9	-	N	Α	
Puzzle Canyon Creek	Los Angeles County	_	_	18090206	2.7	_	N	Α	1979
Pyramid Lake	Los Angeles County	_	_	18070102	3.5	2.1	N	Α	1979
Quail Lake	Los Angeles County	_	_	18090102	1.6	0.4	N	Α	1979
Quigley Canyon Creek	City of Santa Clarita	Confluence with Placertia Creek	1.3 miles upstream of Meadview Avenue	18070102	1.5	_	Y	AE	2015
Railroad Canyon	City of Santa Clarita	Confluence with Newhall Creek	0.4 miles upstream of confluence with Newhall Creek	18070102	0.4	-	Y	AE	2014
Railroad Canyon	City of Santa Clarita	0.4 miles upstream of confluence with Newhall Creek	1.3 miles upstream of confluence with Newhall Creek	18070102	0.9	-	N	А	2014
Railroad Canyon Creek Left Overbank	City of Santa Clarita	Confluence with Newhall Creek	0.5 miles upstream of confluence with Newhall Creek	18070102	0.5	_	Y	AE	2014
Ramirez Canyon	Los Angeles County, City of Malibu	_		18070104	1.4		N	AE	1979
Reservoir near UCLA	City of Los Angeles	_	_	18070104	0.1	0.002	N	А	_
Rice Canyon Creek	Los Angeles County	_	_	18070102	0.4	_	N	А	1979

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Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi ² ) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Rio Hondo Channel	City of Bell Gardens, City of Downey, Los Angeles County, City of Montebello, City of Pico Rivera, City of South Gate	_	_	18070105	8.0	_	N	Α	1991
Rio Hondo Channel Tributary	City of Montebello	_	_	18070105	0.6	_	N	AE	1991
Rivo Alto Canal	City of Long Beach	_	_	18070106	0.6	_	N	AE	1991
Roberts Canyon Creek	City of Azusa	_	_	18070106	0.4	_	N	А	_
Rock Creek	Los Angeles County	_	_	18090206	7.4	_	N	Α	1979
Romero Canyon Creek	Los Angeles County	_	_	18070102	1.4	_	N	Α	1979
Salt Canyon Creek	Los Angeles County	_	_	18070102	2.4	_	N	Α	1979
San Dimas Wash	City of LaVerne; City of San Dimas	_	_	18070106	0.4		N	Α	
San Francisquito Canyon Creek	Los Angeles County, City of Santa Clarita	Confluence with Santa Clara River	Approximately 400 feet upstream of San Francisquito Canyon Road	18070102	8.5	ı	Y	AE	2015
San Gabriel Reservoir	Los Angeles County	_	_	18070106	_	0.5	N	AE	1978
San Gabriel River	City of Bellflower, City of Cerritos, City of Lakewood, City of Long Beach	_	_	18070106	12.2		N	AE	1978
San Gabriel River	City of Azusa, Los Angeles County	_	_	18070106	11.5		N	Α	1978

Table 2: Flooding Sources included in this F15 Report, continued									
Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi ² ) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
San Martinez Chiquito Canyon	Los Angeles County	Confluence with Santa Clara River	Approximately 2000 feet upstream of San Martinez Road	18070102	4.0	_	N	AE	2015
San Martinez Grande Canyon Creek	Los Angeles County	Confluence with Santa Clara River	1.8 miles above State Route 126	18070102	2.0	_	N	AE	2015
San Pedro Bay	City of Long Beach	_	_	18070104	1.0	_	N	AE	1991
Sand Canyon Creek	Los Angeles County, City of Santa Clarita	Confluence with Santa Clara River	0.4 miles upstream of Coyote Canyon Creek	18070102	4.2	l	N	AE, AO	2010
Santa Clara River	Los Angeles County, City of Santa Clarita	At Los Angeles— Ventura County Boundary	Approximately 1.4 miles upstream of Lang Station Road	18070102	22.8		Y	AE	2015
Santa Clara River	Los Angeles County	Approximately 12 miles upstream of Lang Station Road	0.3 miles upstream of confluence of Soledad Canyon Creek	18070102	7.5	_	Y	A, AE	2015
Santa Clara River Overflow	Los Angeles County	Confluence with Santa Clara River	Approximately 1700 feet upstream of the confluence of Santa Clara River	18070102	0.3	_	N	AE	2015
Santa Maria Canyon	Los Angeles County	_	_	18070104	0.7		N	A, AE	1979
Santa Susana Creek	City of Los Angeles	_	_	18070105	2.9	_	N	AE	1979
Santa Susana Pass Wash	City of Los Angeles	_	_	18070105	0.9	_	N	A, AE	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Santa Ynez Canyon Reservoir	City of Los Angeles	_	_	18070104	0.1	0.01	N	А	1979
Savage Creek	City of Whittier	_	_	18070106	0.1	_	N	AE	1978
Sawtelle-Westwood Channel	City of Los Angeles	_	_	18070104	0.4	_	N	AE	1978
Sierra Canyon Creek	Los Angeles County	_	_	18070104	1.2		N	Α	1979
Silver Lake Reservoir	Los Angeles County	_	_	18070104	_	0.1	N	AE	1979
Sloan Canyon Creek	Los Angeles County	_	_	18070102	1.3	_	N	А	1979
Soledad Canyon	Los Angeles County	Confluence with Santa Clara River	Approximately 1.0 mile upstream of East Soledad Pass Road	18070102	4.6	_	N	AE	2015
South Fork Santa Clara River	City of Santa Clarita	Confluence with Santa Clara River	approximately 1,600 feet upstream of Lyons Avenue	18070102	4.2	_	Y	AE	2014
South Fork Santa Clara River Tributary	City of Santa Clarita	Confluence with South Fork Santa Clara River	Immediately upstream of Tournament Road	18070102	0.8	_	Y	AE	2014
South Portal Canyon Creek	Los Angeles County	_	_	18070102	0.4	_	N	А	1979
Spade Spring Canyon Creek	Los Angeles County	Confluence with Mint Canyon Creek	2.8 miles upstream of confluence with Mint Canyon Creek	18070102	2.8	_	Y	AE	2010
Stokes Canyon	Los Angeles County	_	_	18070104	2.0	_	N	A, AE	1979
Stone Canyon Reservoir	City of Los Angeles	_		18070104	_	0.2	N	AE	1979
Stone Canyon Road Tributary	City of Los Angeles	_	_	18070104	0.05	_	N	AE	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Sullivan Canyon Creek	City of Los Angeles	_	_	18070104	1.8	I	N	А	1979
Sunshine Canyon Creek	City of Los Angeles	_	_	18070105	0.1	1	N	Α	1979
Tacobi Creek	City of Whittier	_	_	18070106	0.1	_	N	А	1978
Tapia Canyon Creek	Los Angeles County	_	_	18070102	1.3	_	N	А	1979
Texas Canyon Creek	Los Angeles County	Confluence with Bouquet Canyon Creek	0.9 miles above confluence	18070102	0.9		N	AE	2015
Tick Canyon	Los Angeles County	Confluence with Santa Clara River	0.2 miles above Tick Canyon Road	18070102	2.1	1	N	AE	2015
Tonner Canyon Creek	Los Angeles County	_	_	18070106	1.2	_	N	Α	1979
Topanga Canyon	Los Angeles County, City of Los Angeles	_	_	18070104	10.2		N	A, AE	2016
Towsley Canyon Creek	Los Angeles County, City of Santa Clarita	Approximately 400 feet upstream of confluence of Gavin Canyon Creek	Approximately 1100 feet upstream of The Old Road	18070102	I	_	N	AE	2015
Trancas Creek	City of Malibu	Approx 500 feet above mouth	Approximately 1,620 feet above mouth	18070104	0.1	_	N	AE	1979
Tributary to Unnamed Canyon	Los Angeles County, City of Santa Clarita	Approx 1,200 feet downstream of Access Road	Approx 1,650 feet upstream of Access Road	18070104	0.1	_	N	А	2017
Triunfo Creek	Los Angeles County, City of Westlake Village	Approx 200 feet downstream of Crags Drive	At Westlake Dam	18070104	4.9	_	Y	AE	2015
Turnbull Canyon	City of Whittier	_	_	18070106	0.7	_	N	AE, AO	1978
Unnamed Canyon Creek (Serra Retreat Area)	Los Angeles County, City of Malibu	Approx 270 feet upstream of Unnamed Road	Approx 2,100 feet upstream of Unnamed Road	18070104	0.3	_	N	AE	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi ² ) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Unnamed Stream Main Reach	City of Palos Verdes Estates	Approx 340 feet upstream of Pacific Ocean	Approx 230 feet upstream of Via Coronel	18070104	1.0	_	Y	AE	2012
Unnamed Stream Tributary 1	City of Palos Verdes Estates	Confluence with Unnamed Stream Main Reach	Approx 140 feet upstream of Via Landeta	18070104	0.2		Y	AE	2012
Unnamed Stream Tributary 2	City of Palos Verdes Estates	Confluence with Unnamed Stream Main Reach	Approx 180 feet upstream of Via Zurita	18070104	0.5	_	Y	AE	2012
Upper Franklin Canyon Reservoir	City of Los Angeles	_	_	18070104	_	0.02	N	AE	1979
Upper Los Angeles River Left Overbank	City of Los Angeles	At East Cezar Chavez Avenue	Approximately 1.6 miles upstream of East Cezar Chavez Avenue	18070105	1.6	_	N	AE	2016
Upper Stone Canyon Reservoir	City of Los Angeles	_	_	18070104	_	0.02	N	AE	1979
Vasquez Canyon	Los Angeles County	Confluence with Bouquet Canyon Creek	Approximately 2 miles upstream of confluence with Bouquet Canyon Creek	18070102	2.0	_	N	AE	2015
Villa Canyon Creek	Los Angeles County	_	_	18070102	0.1	_	N	Α	1979
Vine Creek	City of West Covina	_	_	18070106	0.5	_	N	Α	_
Violin Canyon Creek	Los Angeles County	_	_	18070102	1.2	_	N	AE,	1979
Wayside Canyon Creek	Los Angeles County	_	_	18070102	2.2		N	А	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Weldon Canyon	City of Los Angeles	Approx 100 feet upstream of Golden State Freeway Bridge	Approx 1,500 feet upstream of Golden State Freeway Bridge	18070105	0.3	ı	Y	AE	1979
West Basin	City of Los Angeles	_	_	18070106	2.7	_	N	AE	1979
West Channel	City of Los Angeles	_	_	18070106	0.7	_	N	AE	1979
Westlake Lake	City of Westlake Village	At Westlake Lake Dam	At the County Boundary	18070104	_	0.2	N	AE	2015
Whitney Canyon Creek	Los Angeles County, City of Santa Clarita	Confluence with Newhall Creek	1 mile upstream of confluence with Newhall Creek	18070102	1.0	_	N	AE	2015
Wildwood Canyon Creek	City of Santa Clarita	_	_	18070102	0.5	_	N	A, AO	1984
Wiley Canyon Creek	Los Angeles County, City of Santa Clarita	_	_	18070102	0.4	_	N	Α	1984
Willow Springs Canyon Creek	Los Angeles County	_	_	18090206	5.9	_	N	Α	1979
Young Canyon Creek	Los Angeles County	_	_	18070102	0.2		N	А	1979
Zuma Canyon	Los Angeles County, City of Malibu	_		18070104	2.6	_	N	A, AE	1979
UNKNOWN 1 near W. 3rd Street	City of Los Angeles, City of West Hollywood	_		18070104	1.0	_	N	AO	1980, 1985
UNKNOWN 2 near W. 3rd Street	City of Los Angeles	_	_	18070104	0.2	_	N	Α	_
UNKNOWN 3 near W. 3rd Street	City of Los Angeles	_	_	18070104	0.8	_	N	А	_
UNKNOWN 1 near 4th Street	City of Los Angeles	_	_	18070104	0.2		N	А	_
UNKNOWN 1 near Aberdeen Avenue	City of Los Angeles	_	_	18070104	0.9	_	N	А	_

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
UNKNOWN 1 near Alameda Street	City of Los Angeles			18070104	0.2	1	N	А	_
UNKNOWN 2 near Alameda Street	City of Los Angeles	_	_	18070104	0.2	-	N	Α	_
UNKNOWN 1 near Alaska Avenue	City of Torrance		_	18070104	0.2	-	N	AH	1978
UNKNOWN 1 near Amsler Street	City of Torrance		_	18070104	0.1	_	N	АН	1978
UNKNOWN 1 to Anaverde Creek	City of Palmdale	_	_	18090206	1.1	_	N	А	1985
UNKNOWN 1 near Anza Avenue	City of Torrance	_	_	18070104	0.1	_	N	АН	1978
UNKNOWN 1 to Arroyo Calabasas	City of Hidden Hills	_	_	18070105	0.7	_	N	А	_
UNKNOWN 2 to Arroyo Calabasas	City of Calabasas	_	_	18070105	0.5	_	N	А	_
UNKNOWN 1 near Baile Avenue	City of Los Angeles	_	_	18070105	0.3	_	N	AE	_
UNKNOWN 2 near Baile Avenue	City of Los Angeles	_	_	18070105	0.1	_	N	AE	_
UNKNOWN 1 near S. Beverley Glen Boulevard	City of Los Angeles	l	_	18070104	0.1		N	АН	_
UNKNOWN 1 to Big Rock Wash	Los Angeles County			18090206	3.6	ı	N	A, AO	_
UNKNOWN 1-A to Big Rock Wash	Los Angeles County			18090206	3.3	ı	N	A, AO	_
UNKNOWN 2 to Big Rock Wash	Los Angeles County			18090206	2.6		N	A, AO	_
UNKNOWN 1 near Blinn Avenue	City of Los Angeles	_	_	18070104	0.2	1	N	А	_
UNKNOWN 1 to Broad Canyon Creek	Los Angeles County	_		18090206	1.3	_	N	А	_
UNKNOWN 2 to Broad Canyon Creek	Los Angeles County		_	18090206	2.3		N	А	_

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
UNKNOWN 3 to Broad Canyon Creek	Los Angeles County	_	_	18090206	0.9	_	N	А	_
UNKNOWN 1 to California Aqueduct	Los Angeles County			18090206	2.2	ı	N	Α	
UNKNOWN 2 to California Aqueduct	Los Angeles County	ı		18090206	0.9	ı	N	А	_
UNKNOWN 3 to California Aqueduct	Los Angeles County	ı		18090206	2.1	ı	N	А	_
UNKNOWN 4 to California Aqueduct	Los Angeles County	l	_	18090206	1.1		N	Α	_
UNKNOWN 5 to California Aqueduct	Los Angeles County	ı		18090206	0.6	ı	N	А	_
UNKNOWN 1 near Camino Real Calle	City of Redondo Beach	_	_	18070104	0.2	_	N	AE	1981
UNKNOWN 1 near Chaparal Street	City of Los Angeles		_	18070104	0.2	ı	N	АН	_
UNKNOWN 1 near Childs Court	City of Los Angeles	_	_	18070104	0.9	_	N	AO	_
UNKNOWN 1 near Club View Drive	City of Los Angeles	l	_	18070104	0.1		N	АН	_
UNKNOWN 1 near Denker Avenue	City of Los Angeles			18070104	0.1	ı	N	АН	_
UNKNOWN 1 near Edwards AF Base	Los Angeles County	l	_	18090206	1.8		N	Α	_
UNKNOWN 2 near Edwards AF Base	Los Angeles County	ı		18090206	3.0	ı	N	Α	_
UNKNOWN 2-A near Edwards AF Base	Los Angeles County			18090206	0.7	ı	N	Α	_
UNKNOWN 1 near Eubank Avenue	City of Los Angeles		_	18070104	0.1		N	Α	_
UNKNOWN 1 near Glade Avenue	City of Los Angeles	_	_	18070105	0.1	-	N	AE	_
UNKNOWN 2 near Glade Avenue	City of Los Angeles	_		18070105	0.1	_	N	АН	_

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
UNKNOWN 1 to Glenoaks Boulevard	City of Los Angeles		_	18070105	0.5		N	А	_
UNKNOWN 2 to Glenoaks Boulevard	City of Los Angeles			18070105	0.3	ı	N	А	_
UNKNOWN 3 to Glenoaks Boulevard	City of Los Angeles	-	_	18070105	0.7	-	N	Α	_
UNKNOWN 1 near Gould Avenue	City of Redondo Beach	_	_	18070104	0.1		N	AE	1981
UNKNOWN 1 near Grenola Street	City of Los Angeles			18070104	0.6	ı	N	А	_
UNKNOWN 1 near N. Hoover Street	City of Los Angeles	ı		18070104	0.4	ı	N	АН	_
UNKNOWN 1 near S. La Cienega Boulevard	City of Los Angeles	_	_	18070104	0.1	_	N	А	_
UNKNOWN 1 near Lake Palmdale	City of Palmdale	1	_	18090206	0.7	l	N	Α	1985
UNKNOWN 1 near Laurel Canyon Boulevard	City of Los Angeles	l		18070104	1.0	l	N	AO	_
UNKNOWN 1 to Little Rock Wash	Los Angeles County	l		18090206	1.3	l	N	A, AO	_
UNKNOWN 2 to Little Rock Wash	Los Angeles County			18090206	2.6	ı	N	А	_
UNKNOWN 3 to Little Rock Wash	Los Angeles County	l	_	18090206	1.9		N	А	_
UNKNOWN 1 near Long Beach Freeway	City of Lynwood	_	_	18070105	0.3		N	АН	_
UNKNOWN 1 near Louise Avenue	City of Lynwood	_	_	18070105	0.7	_	N	AH	_
UNKNOWN 1 near Lucerne Boulevard	City of Los Angeles	_		18070104	0.3		N	АН	
UNKNOWN 1 near S. Main Street	City of Burbank	_	_	18070105	0.3	_	N	AO	_
UNKNOWN 1 near Magnolia Avenue	City of Los Angeles	_	_	18070105	0.2	_	N	АН	_
UNKNOWN 1 to Malaga Canyon Creek	City of Palos Verdes Estates	_	_	18070104	0.6	_	N	А	_

	Table 2. Flooding Sources include								
Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi ² ) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
UNKNOWN 2 to Malaga Canyon Creek	City of Palos Verdes Estates		_	18070104	0.7	1	N	А	_
UNKNOWN 2-A to Malaga Canyon Creek	City of Palos Verdes Estates		_	18070104	0.1	1	N	А	_
UNKNOWN 1 near Marathon Street	City of Los Angeles		_	18070104	0.1		N	АН	_
UNKNOWN 1 near Melrose Avenue	City of Los Angeles	_	_	18070104	0.5	_	N	А	_
UNKNOWN 1 near Mines Avenue	City of Montebello	_	_	18070105	0.1	_	N	AE	_
UNKNOWN 1 to Myrick Canyon Creek	Los Angeles County	_	_	18090206	0.7	_	N	А	_
UNKNOWN 1 near Overland Avenue	City of Los Angeles	_	_	18070104	1.4	_	N	AO	_
UNKNOWN 2 near Overland Avenue	City of Los Angeles	_	_	18070104	0.1	_	N	АН	_
UNKNOWN 1 near W. Olympic Boulevard	City of Los Angeles	_	_	18070104	0.1	_	N	АН	_
UNKNOWN 1 to Pallett Creek	Los Angeles County	_	_	18090206	7.6	_	N	А	-
UNKNOWN 1-A to Pallett Creek	Los Angeles County	_	_	18090206	10.2	_	N	А	-
UNKNOWN 1-A-1 to Pallett Creek	Los Angeles County	_	_	18090206	0.4	_	N	А	_
UNKNOWN 1-A-2 to Pallett Creek	Los Angeles County	_	_	18090206	1.4	_	N	А	
UNKNOWN 1-B to Pallett Creek	Los Angeles County	_	_	18090206	9.6	_	N	А	_
UNKNOWN 1-B-1 to Pallett Creek	Los Angeles County	_	_	18090206	4.4	_	N	А	_
UNKNOWN 1-C to Pallett Creek	Los Angeles County	_	_	18090206	1.4	_	N	А	_
UNKNOWN 1 to Paso Robles Avenue	City of Los Angeles	_	_	18070105	0.4	_	N	AE	_
UNKNOWN 1 near Pershing Drive	City of Los Angeles	_	_	18070104	0.2	_	N	А	_

	TUDIC E. I	ooding oodic	es iliciuueu ii	1 11113 1 10 1	coort, cont				
Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi ² ) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
UNKNOWN 1 to Portal Ridge Wash	Los Angeles County	1		18090206	3.0	ı	N	А	_
UNKNOWN 1-A to Portal Ridge Wash	Los Angeles County	ı		18090206	1.1	ı	N	А	_
UNKNOWN 1-B to Portal Ridge Wash	Los Angeles County	_	_	18090206	2.2	_	N	Α	_
UNKNOWN 1-C to Portal Ridge Wash	Los Angeles County	_	_	18090206	1.0	_	N	Α	_
UNKNOWN 1 near Rexbon Road	City of Los Angeles	_	_	18070105	0.2	_	N	AE	_
UNKNOWN 1 near Ripley Avenue	City of Redondo Beach	_	_	18070104	0.1	_	N	AE	1981
UNKNOWN 1 near Roscoe Boulevard	City of Los Angeles	_	_	18070105	0.2	_	N	АН	_
UNKNOWN 1 near San Diego Freeway	City of Los Angeles	_	_	18070105	0.2	_	N	АН	
UNKNOWN 1 to San Fernando Road	City of Los Angeles	_	_	18070105	0.4	_	N	А	-
UNKNOWN 2 to San Fernando Road	City of Los Angeles		_	18070105	0.5	1	N	Α	_
UNKNOWN 1 to San Gabriel River	City of Long Beach		_	18070106	1.2		N	Α	_
UNKNOWN 1 to Santa Susana Creek	City of Los Angeles		_	18070105	0.4	1	N	A, AO	
UNKNOWN 1-A to Santa Susana Creek	City of Los Angeles		_	18070105	0.2	1	N	Α	_
UNKNOWN 2 to Santa Susana Creek	City of Los Angeles	_	_	18070105	0.4	_	N	Α	
UNKNOWN 1 near Sesnon Boulevard	City of Los Angeles	_	_	18070105	0.1	_	N	AE	_
UNKNOWN 1 near Sheldon Street	City of Los Angeles		_	18070105	0.6		N	А	_
UNKNOWN 1 near W. Slausson Avenue	Los Angeles County	_	_	18070104	0.2	_	N	АН	_
UNKNOWN 2 near W. Slausson Avenue	Los Angeles County	_	_	18070104	0.2		N	АН	_

	Table 2. Flooding Sources include								
Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi ² ) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
UNKNOWN 1 near State Highway 110	City of Los Angeles	_	_	18070105	0.2		N	А	_
UNKNOWN 1 near W. Sunset Boulevard	City of Los Angeles	_	_	18070104	0.1	_	N	А	_
UNKNOWN 1 near Sunset Canyon Drive	City of Burbank	_	_	18070105	0.8	_	N	АО	-
UNKNOWN 1 near Susanna Place	City of Los Angeles	_	_	18070105	0.1	_	N	АН	_
UNKNOWN 1 near W. Temple Street	City of Los Angeles	_	_	18070104	0.3	_	N	АН	_
UNKNOWN 1 near Toledo Street	City of Torrance	_	_	18070104	0.1	_	N	AE	1978
UNKNOWN 2 near Toledo Street	City of Torrance	_	_	18070104	0.3	_	N	АН	1978
UNKNOWN 1 near UCLA	City of Los Angeles	_	_	18070104	2.4		N	АН	1
UNKNOWN 1 near Vail Avenue	City of Montebello	_	_	18070105	0.3	_	N	Α	1
UNKNOWN 1 near S. Van Ness Avenue	City of Los Angeles	_	_	18070104	1.2	_	N	A, AH, AO	_
UNKNOWN 1 near Via Valmonte	City of Torrance	_	_	18070104	0.1	ı	N	Α	1978
UNKNOWN 1 near Victory Boulevard	City of Los Angeles	_	_	18070105	0.6	ı	N	АН	
UNKNOWN 1 near Vincent Street	City of Redondo Beach		_	18070104	0.1		N	AE	1981
UNKNOWN 2 near Vincent Street	City of Redondo Beach	_	_	18070104	0.1	_	N	AE	1981
UNKNOWN 1 to Vine Creek	City of West Covina	_	_	18070106	0.4	_	N	Α	_
UNKNOWN 2 to Vine Creek	City of West Covina	_	_	18070106	0.3	_	N	A	_
UNKNOWN 1 near Walker Avenue	City of Los Angeles	_	_	18070104	0.1	_	N	А	_
			•						

	rable 2. Flooding Sources included								
Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub- Basin(s)	Length (mi) (streams or coastlines)	Area (mi ² ) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
UNKNOWN 1 to Weldon Canyon Creek	City of Los Angeles		_	18070105	0.1	_	N	AE	_
UNKNOWN 1-A to Weldon Canyon Creek	City of Los Angeles	_	_	18070105	0.1	_	N	AE	_
UNKNOWN WEST of Edwards AF Base	Los Angeles County	ı		18090206	7.5	ı	N	А	_
UNKNOWN WEST of Edwards AF Base	Los Angeles County		_	18090206	3.9		N	Α	_
UNKNOWN WEST of Edwards AF Base	Los Angeles County		_	18090206	2.4		N	Α	_
UNKNOWN 1 to UNKNOWN WEST	Los Angeles County	ı		18090206	2.5	ı	N	А	_
UNKNOWN 1-A to UNKNOWN WEST	Los Angeles County	1	_	18090206	1.9	ı	N	А	_
UNKNOWN 2 to UNKNOWN WEST	Los Angeles County			18090206	1.5	ı	N	Α	_
UNKNOWN 2-A to UNKNOWN WEST	Los Angeles County		_	18090206	1.0		N	А	_
UNKNOWN 3 to UNKNOWN WEST	Los Angeles County		_	18090206	1.6	l	N	Α	_
UNKNOWN 3-A to UNKNOWN WEST	Los Angeles County		_	18090206	0.7		N	Α	_
UNKNOWN 4 to UNKNOWN WEST	Los Angeles County	1	_	18090206	0.6	ı	N	А	
UNKNOWN 5 to UNKNOWN WEST	Los Angeles County	_	_	18090206	0.5	_	N	Α	_
UNKNOWN 6 to UNKNOWN WEST	Los Angeles County	_	_	18090206	0.5	_	N	Α	_
UNKNOWN 1 near Wilshire Boulevard	City of Los Angeles	_	_	18070104	2.6	1	N	AH, AO	_
UNKNOWN 2 near Wilshire Boulevard	City of Los Angeles	_	_	18070104	0.2	_	N	АН	_
UNKNOWN 3 near Wilshire Boulevard	City of Los Angeles	_	_	18070104	0.2		N	Α	_
UNKNOWN 1 near Woodman Place	City of Los Angeles	_	_	18070105	1.2	-	N	А	_

## **SECTION 2.0 – FLOODPLAIN MANAGEMENT APPLICATIONS**

# 2.1 Floodplain Boundaries

To provide a national standard without regional discrimination, the 1% annual chance (100-year) flood has been adopted by FEMA as the base flood for floodplain management purposes. The 0.2% annual chance (500-year) flood is employed to indicate additional areas of flood hazard in the community.

Each flooding source included in the project scope has been studied and mapped using professional engineering and mapping methodologies that were agreed upon by FEMA and Los Angeles County as appropriate to the risk level. Flood risk is evaluated based on factors such as known flood hazards and projected impact on the built environment. Engineering analyses were performed for each studied flooding source to calculate its 1% annual chance flood elevations; elevations corresponding to other floods (e.g. 10-, 4-, 2-, 0.2-percent annual chance, etc.) may have also been computed for certain flooding sources. Engineering models and methods are described in detail in Section 5.0 of this FIS Report. The modeled elevations at cross sections were used to delineate the floodplain boundaries on the FIRM; between cross sections, the boundaries were interpolated using elevation data from various sources. More information on specific mapping methods is provided in Section 6.0 of this FIS Report.

Depending on the accuracy of available topographic data (Table 23), study methodologies employed (Section 5.0), and flood risk, certain flooding sources may be mapped to show both the 1% and 0.2% annual chance floodplain boundaries, regulatory water surface elevations (BFEs), and/or a regulatory floodway. Similarly, other flooding sources may be mapped to show only the 1% annual chance floodplain boundary on the FIRM, without published water surface elevations. In cases where the 1% and 0.2% annual chance floodplain boundaries are close together, only the 1% annual chance floodplain boundary is shown on the FIRM. Figure 3, "Map Legend for FIRM", describes the flood zones that are used on the FIRMs to account for the varying levels of flood risk that exist along flooding sources within the project area. Table 2 and Table 3 indicate the flood zone designations for each flooding source and each community within Los Angeles County, CA, respectively.

Table 2, "Flooding Sources Included in this FIS Report," lists each flooding source, including its study limits, affected communities, mapped zone on the FIRM, and the completion date of its engineering analysis from which the flood elevations on the FIRM and in the FIS Report were derived. Descriptions and dates for the latest hydrologic and hydraulic analyses of the flooding sources are shown in Table 13. Floodplain boundaries for these flooding sources are shown on the FIRM (published separately) using the symbology described in Figure 3. On the map, the 1% annual chance floodplain corresponds to the SFHAs. The 0.2% annual chance floodplain shows areas that, although out of the regulatory floodplain, are still subject to flood hazards.

Small areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data. The procedures to remove these areas from the SFHA are described in Section 6.5 of this FIS Report.

# 2.2 Floodways

Encroachment on floodplains, such as structures and fill, reduces flood-carrying capacity, increases flood heights and velocities, and increases flood hazards in areas beyond the encroachment itself. One aspect of floodplain management involves balancing the economic gain from floodplain development against the resulting increase in flood hazard.

For purposes of the NFIP, a floodway is used as a tool to assist local communities in balancing floodplain development against increasing flood hazard. With this approach, the area of the 1% annual chance floodplain on a river is divided into a floodway and a floodway fringe based on hydraulic modeling. The floodway is the channel of a stream, plus any adjacent floodplain areas, that must be kept free of encroachment in order to carry the 1% annual chance flood. The floodway fringe is the area between the floodway and the 1% annual chance floodplain boundaries where encroachment is permitted. The floodway must be wide enough so that the floodway fringe could be completely obstructed without increasing the water surface elevation of the 1% annual chance flood more than 1 foot at any point. Typical relationships between the floodway and the floodway fringe and their significance to floodplain development are shown in Figure 4.

To participate in the NFIP, Federal regulations require communities to limit increases caused by encroachment to 1.0 foot, provided that hazardous velocities are not produced. Regulations for California require communities in Los Angeles County to limit increases caused by encroachment to 0.5 foot and several communities have adopted additional restrictions. The floodways in this project are presented to local agencies as minimum standards that can be adopted directly or that can be used as a basis for additional floodway projects.

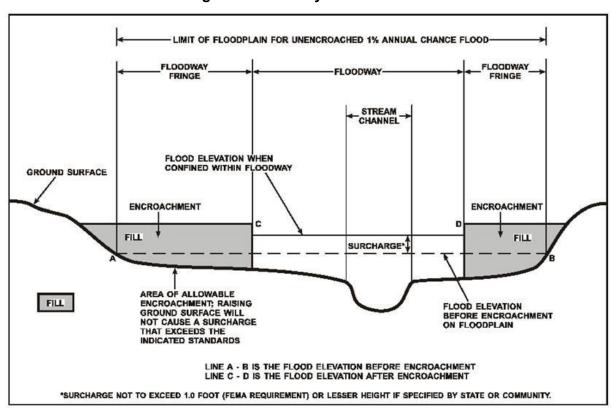


Figure 4: Floodway Schematic

Floodway widths presented in this FIS Report and on the FIRM were computed at cross sections. Between cross sections, the floodway boundaries were interpolated. For certain stream segments, floodways were adjusted so that the amount of floodwaters conveyed on each side of the floodplain would be reduced equally. The results of the floodway computations have been tabulated for selected cross sections and are shown in Table 24, "Floodway Data."

All floodways that were developed for this Flood Risk Project are shown on the FIRM using the symbology described in Figure 3. In cases where the floodway and 1% annual chance floodplain boundaries are either close together or collinear, only the floodway boundary has been shown on the FIRM. For information about the delineation of floodways on the FIRM, refer to Section 6.3.

## 2.3 Base Flood Elevations

The hydraulic characteristics of flooding sources were analyzed to provide estimates of the elevations of floods of the selected recurrence intervals. The Base Flood Elevation (BFE) is the elevation of the 1% annual chance flood. These BFEs are most commonly rounded to the whole foot, as shown on the FIRM, but in certain circumstances or locations they may be rounded to 0.1 foot. Cross section lines shown on the FIRM may also be labeled with the BFE rounded to 0.1 foot. Whole-foot BFEs derived from engineering analyses that apply to coastal areas, areas of ponding, or other static areas with little elevation change may also be shown at selected intervals on the FIRM.

Cross sections with BFEs shown on the FIRM correspond to the cross sections shown in the Floodway Data table and Flood Profiles in this FIS Report. BFEs are primarily intended for flood insurance rating purposes. For construction and/or floodplain management purposes, users are cautioned to use the flood elevation data presented in this FIS Report in conjunction with the data shown on the FIRM.

#### 2.4 Non-Encroachment Zones

This section is not applicable to this Flood Risk Project

### 2.5 Coastal Flood Hazard Areas

For most areas along rivers, streams, and small lakes, BFEs and floodplain boundaries are based on the amount of water expected to enter the area during a 1% annual chance flood and the geometry of the floodplain. Floods in these areas are typically caused by storm events. However, for areas on or near ocean coasts, large rivers, or large bodies of water, BFE and floodplain boundaries may need to be based on additional components, including storm surges and waves. Communities on or near ocean coasts face flood hazards caused by offshore seismic events as well as storm events.

Coastal flooding sources that are included in this Flood Risk Project are shown in Table 2.

## 2.5.1 Water Elevations and the Effects of Waves

Specific terminology is used in coastal analyses to indicate which components have been included in evaluating flood hazards.

The stillwater elevation (SWEL or still water level) is the surface of the water resulting from astronomical tides, storm surge, and freshwater inputs, but excluding wave setup contribution or the effects of waves.

- Astronomical tides are periodic rises and falls in large bodies of water caused by the rotation of the earth and by the gravitational forces exerted by the earth, moon and sun.
- Storm surge is the additional water depth that occurs during large storm events. These events can bring air pressure changes and strong winds that force water up against the shore.
- Freshwater inputs include rainfall that falls directly on the body of water, runoff from surfaces and overland flow, and inputs from rivers.

The 1% annual chance stillwater elevation is the stillwater elevation that has been calculated for a storm surge from a 1% annual chance storm. The 1% annual chance storm surge can be determined from analyses of tidal gage records, statistical study of regional historical storms, or other modeling approaches. Stillwater elevations for storms of other frequencies can be developed using similar approaches.

The total stillwater elevation (also referred to as the mean water level) is the stillwater elevation plus wave setup contribution but excluding the effects of waves.

• Wave setup is the increase in stillwater elevation at the shoreline caused by the reduction of waves in shallow water. It occurs as breaking wave momentum is transferred to the water column.

Like the stillwater elevation, the total stillwater elevation is based on a storm of a particular frequency, such as the 1% annual chance storm. Wave setup is typically estimated using standard engineering practices or calculated using models, since tidal gages are often sited in areas

sheltered from wave action and do not capture this information.

Coastal analyses may examine the effects of overland waves by analyzing storm-induced erosion, overland wave propagation, wave runup, and/or wave overtopping.

- Storm-induced erosion is the modification of existing topography by erosion caused by a specific storm event, as opposed to general erosion that occurs at a more constant rate
- Overland wave propagation describes the combined effects of variation in ground elevation, vegetation, and physical features on wave characteristics as waves move onshore.
- Wave runup is the uprush of water from wave action on a shore barrier. It is a function of the roughness and geometry of the shoreline at the point where the stillwater elevation intersects the land.
- Wave overtopping refers to wave runup that occurs when waves pass over the crest of a barrier.

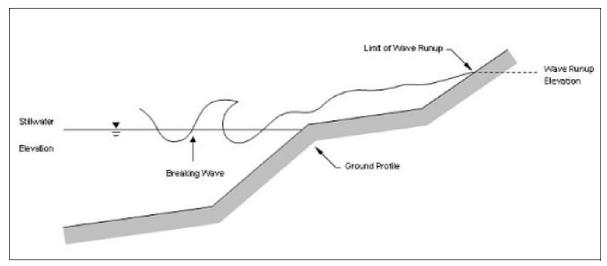


Figure 5: Wave Runup Transect Schematic

### 2.5.2 Floodplain Boundaries and BFEs for Coastal Areas

For coastal communities along the Atlantic and Pacific Oceans, the Gulf of Mexico, the Great Lakes, and the Caribbean Sea, flood hazards must take into account how storm surges, waves, and extreme tides interact with factors such as topography and vegetation. Storm surge and waves must also be considered in assessing flood risk for certain communities on rivers or large inland bodies of water.

Beyond areas that are affected by waves and tides, coastal communities can also have riverine floodplains with designated floodways, as described in previous sections.

### Floodplain Boundaries

In many coastal areas, storm surge is the principle component of flooding. The extent of the 1%

annual chance floodplain in these areas is derived from the total stillwater elevation (stillwater elevation including storm surge plus wave setup) for the 1% annual chance storm. The methods that were used for calculation of total stillwater elevations for coastal areas are described in Section 5.3 of this FIS Report. Location of total stillwater elevations for coastal areas are shown in Figure 8, "1% Annual Chance Total Stillwater Levels for Coastal Areas."

In some areas, the 1% annual chance floodplain is determined based on the limit of wave runup or wave overtopping for the 1% annual chance storm surge. The methods that were used for calculation of wave hazards are described in Section 5.3 of this FIS Report.

Table 26 presents the types of coastal analyses that were used in mapping the 1% annual chance floodplain in coastal areas.

### **Coastal BFEs**

Coastal BFEs are calculated as the total stillwater elevation (stillwater elevation including storm surge plus wave setup) for the 1% annual chance storm plus the additional flood hazard from overland wave effects (storm-induced erosion, overland wave propagation, wave runup and wave overtopping).

Where they apply, coastal BFEs are calculated along transects extending from offshore to the limit of coastal flooding onshore. Results of these analyses are accurate until local topography, vegetation, or development type and density within the community undergoes major changes.

Parameters that were included in calculating coastal BFEs for each transect included in this FIS Report are presented in Table 17, "Coastal Transect Parameters." The locations of transects are shown in Figure 9, "Transect Location Map." More detailed information about the methods used in coastal analyses and the results of intermediate steps in the coastal analyses are presented in Section 5.3 of this FIS Report. Additional information on specific mapping methods is provided in Section 6.4 of this FIS Report.

### 2.5.3 Coastal High Hazard Areas

Certain areas along the open coast and other areas may have higher risk of experiencing structural damage caused by wave action and/or high-velocity water during the 1% annual chance flood. These areas will be identified on the FIRM as Coastal High Hazard Areas.

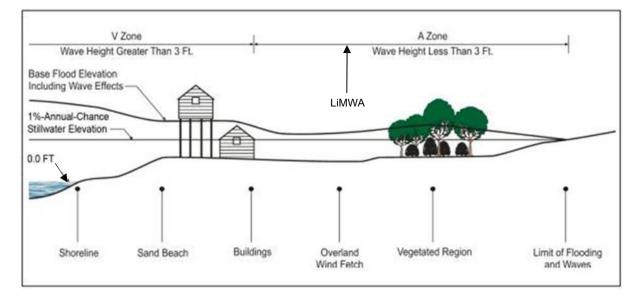
- Coastal High Hazard Area (CHHA) is a SFHA extending from offshore to the inland limit of the primary frontal dune (PFD) or any other area subject to damages caused by wave action and/or high-velocity water during the 1% annual chance flood.
- Primary Frontal Dune (PFD) is a continuous or nearly continuous mound or ridge of sand with relatively steep slopes immediately landward and adjacent to the beach. The PFD is subject to erosion and overtopping from high tides and waves during major coastal storms.

CHHAs are designated as "V" zones (for "velocity wave zones") and are subject to more stringent regulatory requirements and a different flood insurance rate structure. The areas of greatest risk are shown as VE on the FIRM. Zone VE is further subdivided into elevation zones and shown with BFEs on the FIRM.

The landward limit of the PFD occurs at a point where there is a distinct change from a relatively steep slope to a relatively mild slope; this point represents the landward extension of Zone VE. Areas of lower risk in the CHHA are designated with Zone V on the FIRM. More detailed information about the identification and designation of Zone VE is presented in Section 6.4 of this FIS Report.

Areas that are not within the CHHA but are SFHAs may still be impacted by coastal flooding and damaging waves; these areas are shown as "A" zones on the FIRM.

Figure 6, "Coastal Transect Schematic," illustrates the relationship between the base flood elevation, the 1% annual chance stillwater elevation, and the ground profile as well as the location of the Zone VE and Zone AE areas in an area without a PFD subject to overland wave propagation. This figure also illustrates energy dissipation and regeneration of a wave as it moves inland.



**Figure 6: Coastal Transect Schematic** 

Methods used in coastal analyses in this Flood Risk Project are presented in Section 5.3 and mapping methods are provided in Section 6.4 of this FIS Report.

Coastal floodplains are shown on the FIRM using the symbology described in Figure 3, "Map Legend for FIRM." In many cases, the BFE on the FIRM is higher than the stillwater elevations shown in Table 17 due to the presence of wave effects. The higher elevation should be used for construction and/or floodplain management purposes.

### 2.5.4 Limit of Moderate Wave Action

This section is not applicable to this Flood Risk Project

### **SECTION 3.0 – INSURANCE APPLICATIONS**

### 3.1 National Flood Insurance Program Insurance Zones

For flood insurance applications, the FIRM designates flood insurance rate zones as described in Figure 3, "Map Legend for FIRM." Flood insurance zone designations are assigned to flooding sources based on the results of the hydraulic or coastal analyses. Insurance agents use the zones shown on the FIRM and depths and base flood elevations in this FIS Report in conjunction with information on structures and their contents to assign premium rates for flood insurance policies.

The 1% annual chance floodplain boundary corresponds to the boundary of the areas of special flood hazards (e.g. Zones A, AE, V, VE, etc.), and the 0.2% annual chance floodplain boundary corresponds to the boundary of areas of additional flood hazards.

Table 3 lists the flood insurance zones in the unincorporated and incorporated areas of Los Angeles County.

**Table 3: Flood Zone Designations by Community** 

Community	Flood Zone(s)
Agoura Hills, City of	A, AE, D, X
Alhambra, City of	X
Arcadia, City of	D, X
Artesia, City of	X
Avalon, City of	A, AE, D, VE, X
Azusa, City of	A, D, X
Baldwin Park, City of	Х
Bell, City of	X
Bell Gardens, City of	A,X
Bellflower, City of	AE, X
Beverly Hills, City of	D, X
Bradbury, City of	D, X
Burbank, City of	A, AE, AO, D, X
Calabasas, City of	A, AE, D, X
Carson, City of	A, X
Cerritos, City of	A, AE, X
Claremont, City of	D, X
Commerce, City of	A, X
Compton, City of	A, X
Covina, City of	D, X
Cudahy, City of	A, X
Culver City, City of	A, AE, AO, X
Diamond Bar, City of	A, AO, D, X
Downey, City of	A, AE, X
Duarte, City of	D, X
El Monte, City of	X
El Segundo, City of	AE, VE, X
Gardena, City of	A, X
Glendale, City of	D, X
Glendora, City of	D, X

**Table 3: Flood Zone Designations by Community, continued** 

Table 3: Flood Zone Designations by Community  Community	Flood Zone(s)
Hawaiian Gardens, City of	X
Hawthorne, City of	X
Hermosa Beach, City of	AE, VE, X
Hidden Hills, City of	A, D, X
Huntington Park, City of	Х
Industry, City of	D, X
Inglewood, City of	Х
Irwindale, City of	D, X
La Canada Flintridge, City of	D, X
La Habra Heights, City of	D, X
La Mirada, City of	AE, X
La Puente, City of	D, X
La Verne, City of	AE, D, X
Lakewood, City of	A, X
Lancaster, City of	A, AE, AH, AO, X
Lawndale, City of	Х
Lomita, City of	X
Long Beach, City of	A, AE, AH, VE, X
Los Angeles, City of	A, AE, AH, AO, D, VE, X
Los Angeles County, Unincorporated Areas	A, AE, AH, AO, D, VE, X
Lynwood, City of	AH, X
Malibu, City of	A, AE, AO, VE, X
Manhattan Beach, City of	AE, VE, X
Maywood, City of	X
Monrovia, City of	D, X
Montebello, City of	A, AE, D, X
Monterey Park, City of	D, X
Norwalk, City of	AE, X
Palmdale, City of	A, AE, AO, D, X
Palos Verdes Estates, City of	A, AE, VE, X
Paramount, City of	A, AH, X
Pasadena, City of	D, X
Pico Rivera, City of	A, AE, D, X
Pomona, City of	D, X
Rancho Palos Verdes, City of	A, D, VE, X

**Table 3: Flood Zone Designations by Community, continued** 

Table 3: Flood Zone Designations by Community,	continued		
Community	Flood Zone(s)		
Redondo Beach, City of	AE, VE, X		
Rolling Hills, City of	D, X		
Rolling Hills Estates, City of	X		
Rosemead, City of	D, X		
San Dimas, City of	AE, D, X		
San Fernando, City of	X		
San Gabriel, City of	X		
San Marino, City of	X		
Santa Clarita, City of	A, AE, AH, AO, D, X		
Santa Fe Springs, City of	AE, AH, X		
Santa Monica, City of	AE, D, VE, X		
Sierra Madre, City of	D, X		
Signal Hill, City of	X		
South El Monte, City of	Х		
South Gate, City of	A, X		
South Pasadena, City of	Х		
Temple City, City of	Х		
Torrance, City of	A, AE, AH, V, VE, X		
Vernon, City of	X		
Walnut, City of	D, X		
West Covina, City of	A, D, X		
West Hollywood, City of	Х		
Westlake Village, City of	A, AE, X		
Whittier, City of	A, AE, AO, D, X		

### 3.2 Coastal Barrier Resources System

This section is not applicable to this Flood Risk Project.

## Table 4: Coastal Barrier Resources System Information [Not Applicable to this Flood Risk Project]

### **SECTION 4.0 – AREA STUDIED**

### 4.1 Basin Description

Table 5 contains a description of the characteristics of the HUC-8 sub-basins within which each community falls. The table includes the main flooding sources within each basin, a brief description of the basin, and its drainage area.

**Table 5: Basin Characteristics** 

HUC-8 Sub- Basin Name	HUC-8 Sub-Basin Number	Primary Flooding Source	Description of Affected Area	Drainage Area ( square miles)
Antelope – Fremont Valleys	18090206	Big Rock Creek / Little Rock Creek	Extended into Los Angeles county and Cities of Lancaster, and Palmdale. Development is to the east is generally commercial and industrial.	12,000
Calleguas	18070103	Calleguas Creek	Calleguas Creek drains an area of 343 square miles in Ventura County and a small portion of western Los Angeles County.	438
Los Angeles	18070105	Pacific Ocean	Majority of the upper portion is covered by forest and open space. Cities of Long Beach and Los Angeles are highly developed with residential and urban use.	819
Middle Kern- Upper Tehachapi- Grapevine	18030003	Kern River	Drains an areas of the southern Sierra Nevada Mountains northeast of Bakersfield.	2,617
Mojave	18090208	Mojave River	Located in the Southwestern part of the Mojave Desert and extends from the San Bernardino and the San Gabriel Mountains.	4,618
San Gabriel	18070106	San Gabriel River	Majority of areas are not developed. It runs through Angeles National Forest and Cities of Covina, Long Beach, Los Angeles, Pomona, and Whittier	713
San Pedro Channel Islands	18070107	Pacific Ocean	Minor islands off the coast	154
Santa Ana	18070203	Santa Ana River	Drainage area spans across Los Angeles, Orange, Riverside and San Bernardino counties.	1,694
Santa Clara	18070102	Santa Clara River	Encompasses majority of Los Angeles County and Ventura County, as well as Cities of Fillmore, San Buenaventura, Santa Clarita, and Santa Paula.	1,610
Santa Monica Bay	18070104	Malibu Creek	Mostly highly urbanized areas. Major communities include the Cities of Agoura Hills, Calabasas, Culver City, Inglewood, Los Angeles, Malibu, Santa Monica, and West Hollywood.	575

### 4.2 Principal Flood Problems

Table 6 contains a description of the principal flood problems that have been noted for Los Angeles County by flooding source.

**Table 6: Principal Flood Problems** 

Flooding Source	Description of Flood Problems
All Sources	Los Angeles County has a long history of destructive flooding. In the Los Angeles basin area, an extensive flood control system eliminated much of the flood hazard experienced in years past. However, in the less densely populated areas of Malibu, Santa Clarita Valley, and Antelope Valley, relatively few flood controls have been constructed. These areas remain subject to flood hazard during major storms.
Alluvial Fans	The type of flooding in the City of Palmdale is typical of that experienced by communities developed on alluvial fans. Flood flows discharge from the mountainous canyons onto the desert floor, where, due to the lack of well incised streambeds, water spreads out in uncontrolled patterns. Intense, short-duration summer thunderstorms are not uncommon and have created flooding in downstream areas.
	The principal flood problems for both the Little Rock and Big Rock Washes can be attributed to three factors: the very flat topography, the absence of well-defined natural channels, and the lack of a developed flood control system. In the steeper upstream reaches of both washes, water is confined mostly to the main channel. Flooding problems occur when the flows reach the valley floor where the channels flatten out. This allows the flows to spread over great distances, inundating the surrounding areas.
	In some instances, flooding from different sources converges in specific drainage areas of the city. In the east-central part of the city, flooding studied by approximate methods originates in the north, east of Amargosa Creek, and converges with flooding studied by detailed methods that originate in the foothills to the south.
	Flood discharges have overflowed normally dry streambeds, resulting in heavy damage as floodwaters travel through developed areas. During the period of comparatively recent record, floods of major proportions have occurred. The office of the County Engineer has identified the areas in which moderate to severe flooding was observed during heavy storms in 1938, 1965, and 1969 on flood overflow maps. During these floods, widespread damage to orchards, irrigation systems, buildings, and roads occurred.
Antelope Valley	Flows in the Antelope Valley are northerly from the mountains across the broad alluvial plain, through a network of largely unimproved channels. During minor storms, much of the flow percolates into the ground. In major storms, flows reach the lake at the northern county limits, where flood flows pond until evaporated.
	The City of Lancaster is on the alluvial floodplain of the Antelope Valley. Consequently, the type of flooding experienced in the city is typical of that experienced by communities developed on alluvial fans. Flood flows discharge from the mountainous canyons onto the desert floor, where, due to the lack of well-incised streambeds, it spreads out in uncontrolled patterns.
	Flood discharges have overflowed in normally dry streambeds, resulting in heavy damage as floodwaters pass through developed areas. Flooding from Little Rock Creek was experienced in the eastern portion of the city.

**Table 6: Principal Flood Problems, continued** 

Flooding	
Source	Description of Flood Problems
Ballona Creek	The City of Culver City has an extensive history of floods and flooding. Sources of flooding include the Ballona Creek channel and associated tributaries, as well as drainage channels originating in the Baldwin Hills and surrounding cities.  The Los Angeles County Flood Control District's flood overflow maps also indicate a history of flooded streets and low-lying areas along the streams of Culver City that resulted from major storms.
Dominguez Channel	The LACFCD flood overflow map indicates a history of flood streets, sump, and general flooding among Dominguez Channel in Torrance. The flooding problems were related to the inadequacy of local drainage facilities.
Foothills of Santa Clarita	Los Angeles County Flood Control District flood-overflow maps indicate a history of flooding in this area from major storms. These events demonstrate that the city of Santa Clarita is susceptible to flood damage. Of particular concern are mudflows that frequently occur in the foothill areas during intense rainfall, usually following brush fires in the upstream watershed. This hazard has not been addressed in this study.  During the 1969 storms, much damage was caused by erosion and sedimentation of the natural watercourses. The most significant damage to private property was the destruction of a zoological compound located in the Santa Clara River floodplain.
La Mirada Creek	La Mirada Creek is an unimproved watercourse that flows southwest through the La Mirada. Overflow maps indicate a history of flooded streets and natural watercourses in the city. Between Santa Gertrudes Avenue and Stamy Road, the channel runs into La Mirada Creek Park. The park has been designed as a greenbelt flood plain management area and the 1-Percent Annual Chance discharge is contained within city owned park property. Downstream of Stamy Road, the flood flows follow the natural watercourse alignment of La Mirada Creek. Between Stamy Road and Imperial Highway, the existing development is rural-residential and the flood plain is occupied by horse corrals and small barns. The water ponds upstream of Imperial Highway inundate approximately 3 acres of undeveloped property. Between Imperial Highway and La Mirada Boulevard, the flows continue through a miniature golf course and a residential development. The residential structures are located on high ground substantially above the flood plain. Downstream of La Mirada Boulevard, the watercourse traverses an open field that is part of Biola College. An existing flood control channel, downstream of the field, collects floodwaters, which are ultimately conveyed to North Fork Coyote Creek.  Watersheds of less than one square mile within the city have historically caused flooding in developed low-lying areas. These areas are located in the vicinity of the intersection of Valeda Drive and De Alcala Drive, between Goldendale Drive and Telegraph Road, the eastern end of Capella Street, the intersection of San Feliciano Drive and Figueras Road, the intersection of Crosswood Road and Pemberton Drive, the intersection of Borda Drive and San Ardo Drive, and north of the Atchison, Topeka, and Santa Fe Railway near Castellon Road.

**Table 6: Principal Flood Problems, continued** 

Flooding	
Flooding Source	Description of Flood Problems
Lockheed Drain	During a February 1992 storm, localized flooding was observed in the city of Burbank.  Lockheed Drain overtopped upstream of an existing railroad spur bridge and flowed south down Griffith Park Drive to Burbank Boulevard. The overflow then flowed east along Burbank Boulevard until joining the flood flows in the Burbank Western Flood Control Channel.
Los Angeles River	The Cities of Bellflower, Carson, Compton, Downey, Gardena, Lakewood, Long Beach, Los Angeles, Lynwood, Montebello, Paramount, Pico Rivera, Santa Fe Springs, South Gate, and Whittier have a history of flooding roughly parallel to that of the larger Los Angeles River watershed. Prior to the construction of the extensive storm drain and flood control channel system protecting numerous communities within the county, these cities suffered the continual damage wrought by overflow of the Los Angeles River and/or its tributaries. Following completion of this system, and due to the lack of a very large flood event during the intervening period, the major cause of flood damage within these cities has been flooding by overflow of local drainage systems and smaller tributaries to the Los Angeles River system. Of particular concern are mudflows that frequently occur in the foothill areas during intense rainfall, usually following wildfires in the upstream watershed.
Pacific Ocean	The Southern California coastline is exposed to waves generated by winter and summer storms originating in the Pacific Ocean. It is not uncommon for these storms to cause 15-foot breakers. The occurrence of such a storm event in combination with high astronomical tides and strong winds can cause a significant wave runup and allow storm waves to attack higher than normal elevations along the coastline. When this occurs, shoreline erosion and coastal flooding frequently results in damage to inadequately protected structures and facilities located along low-lying portions of the shoreline.  Oil pumping in past years has caused subsidence along the ocean front areas of Long Beach. Settlements of up to 30 feet have occurred in some areas of the Long Beach Harbor subjecting many locations along the coast to damage from direct wave action. Much of Naples Island and Belmont Shores in southeastern Long Beach, lie at elevations less than the maximum recorded tide.
Rainfall Runoff	In the City of Los Angeles, city engineers have indicated that an inland strip along the beach, northwest of Ballona Creek outlet, has historically been subject to shallow flooding because, during major storms, the drains serving the area have not functioned at high tide.  In the City of Burbank, flooding is caused by surface runoff associated with high-intensity orographic rainfalls of several hours duration. Once the ground is saturated, subsequent rainfall, augmented by canyon flood flows and coupled with inadequate local drainage facilities, produces shallow flooding and ponding to a depth of approximately 3 feet.

Table 6: Principal Flood Problems, continued

Flooding Source	Description of Flood Problems
Redondo Beach Watersheds	The watersheds of Redondo Beach are relatively small with storm flows either draining directly into the ocean or accumulating in numerous small sumps. The Los Angeles County Flood Control District flood overflow maps indicate a history of flooded streets and sumps in the community which resulted from the major storms of 1938, 1965, 1969, 1978, 1980, 1983, and 1994.
	Flooding caused by the 1-percent annual chance flood is limited to street rights of way, areas of shallow flooding less than one foot deep, and ponding areas. Shallow flooding occurs along Avenue I between South Elena and Esplanade Avenues; along Julia Avenue between Camino Real and South Juanita Avenue; between Del Amo, Diamond, Garnsey, and Vincent Streets; between Vincent Street, South Irena Avenue, Spencer Street, and El Rondo; between Anita Street, North Prospect Avenue, Agate Street, and Harkness Lane; along Carnegie Lane between Blossom and Green Lanes; between Aviation Way and Artesia and Aviation Boulevards; between Gibson Avenue, Deland Boulevard, Dow Avenue, and Manhattan Beach Boulevard; at the intersection of the Atchinson, Topeka, and Santa Fe Railway and Inglewood Avenue; and along Compton Boulevard between Freeman and Aviation Boulevards.

Table 7 contains information about historic flood elevations in the communities within Los Angeles County.

**Table 7: Historic Flooding Elevations** 

Flooding Source	Location	Historic Peak (Feet NAVD88)	Event Date	Approximate Recurrence Interval (years)	Source of Data
Big Rock Creek	Near Valyermo, CA	4053.3	1/25/1969	N/A	USGS gage
Big Tujunga Creek	Near Sunland, CA	1574.6	1/23/1943	N/A	USGS gage
Malibu Creek	At Crater Camp near Calabasas, CA	433.0	1/25/1969	N/A	USGS gage
Santa Clara River	450 feet downstream of I-5	797.5	11/15/1952	N/A	USGS gage
Santa Clara River	At Los Angeles County/Ventura County Line	1046.2	1/9/2005	N/A	USGS gage
Topanga Canyon	Near Topanga Beach, CA	268.2	1/25/1969	N/A	USGS gage

### 4.3 Non-Levee Flood Protection Measures

Table 8 contains information about non-levee flood protection measures within Los Angeles County such as dams, jetties, and or dikes. Levees are addressed in Section 4.4 of this FIS Report.

**Table 8: Non-Levee Flood Protection Measures** 

Flooding Source	Structure Name	Type of Measure	Location	Description of Measure
Los Angeles River	Sepulveda Flood Control Basin	Earthen Dam	Los Angeles, California	Flood control facility that was constructed in response to the historic 1938 floods. It is designed to withhold winter flood waters along the Los Angeles River
San Gabriel River	Whittier Narrows Flood Control Basin	Earthen Dam	Montebello, California	Flood control facility that controls runoff originating in the northeastern portion of Los Angeles County. The Rio Hondo originates at Whittier Narrows Dam
Tujunga Wash	Hansen Flood Control Reservoir	Earthen Dam	Los Angeles, California	Flood control facility built in 1939 in response to significat flooding along the Tujunga Wash.

### 4.4 Levees

For purposes of the NFIP, FEMA only recognizes levee systems that meet, and continue to meet, minimum design, operation, and maintenance standards that are consistent with comprehensive floodplain management criteria. The Code of Federal Regulations, Title 44, Section 65.10 (44 CFR 65.10) describes the information needed for FEMA to determine if a levee system reduces the risk from the 1% annual chance flood. This information must be supplied to FEMA by the community or other party when a flood risk study or restudy is conducted, when FIRMs are revised, or upon FEMA request. FEMA reviews the information for the purpose of establishing the appropriate FIRM flood zone.

Levee systems that are determined to reduce the risk from the 1% annual chance flood are accredited by FEMA. FEMA can also grant provisional accreditation to a levee system that was previously accredited on an effective FIRM and for which FEMA is awaiting data and/or documentation to demonstrate compliance with Section 65.10. These levee systems are referred to as Provisionally Accredited Levees, or PALs. Provisional accreditation provides communities and levee owners with a specified timeframe to obtain the necessary data to confirm the levee's certification status. Accredited levee systems and PALs are shown on the FIRM using the symbology shown in Figure 3 and in Table 9. If the required information for a PAL is not submitted within the required timeframe, or if information indicates that a levee system not longer meets Section 65.10, FEMA will de-accredit the levee system and issue an effective FIRM showing the levee-impacted area as a SFHA.

FEMA coordinates its programs with USACE, who may inspect, maintain, and repair levee systems. The USACE has authority under Public Law 84-99 to supplement local efforts to repair flood control projects that are damaged by floods. Like FEMA, the USACE provides a program to allow public sponsors or operators to address levee system maintenance deficiencies. Failure to do so within the required timeframe results in the levee system being placed in an inactive status

in the USACE Rehabilitation and Inspection Program. Levee systems in an inactive status are ineligible for rehabilitation assistance under Public Law 84-99.

FEMA coordinated with the USACE, the local communities, and other organizations to compile a list of levees that exist within Los Angeles County. Table 9, "Levees," lists all accredited levees, P ALs, and de-accredited levees shown on the FIRM for this FIS Report. Other categories of levees may also be included in the table. The Levee ID shown in this table may not matchnumbers based on other identification systems that were listed in previousFIS Reports. Levees identified as PALs in the table are labeled on the FIRM to indicate their provisional status.

Please note that the information presented in Table 9 is subject to change at any time. For that reason, the latest information regarding any USACE structure presented in the table should be obtained by contacting USACE and accessing the USACE national levee database. For levees owned and/or operated by someone other than the USACE, contact the local community shown in Table 31.

Table 9 : Levees

Community	Flooding Source	Levee Location	Levee Owner	USACE Levee	Levee ID	Covered Under PL84-99 Program?	FIRM Panel(s)
Bell, City of	Los Angeles River	Left Bank	USACE, LA District	Yes	1901057931	Yes	06037C1810F
Bell, City of	Los Angeles River	Right Bank	USACE, LA District	Yes	1901057921	Yes	06037C1810F
Bell Gardens, City of	Rio Hondo Channel	Right Bank	County of Los Angeles	Yes	1901057060	Yes	06037C1664F
Carson, City of	Compton Creek	Left Bank	County of Los Angeles	Yes	1901057139	Yes	06037C1815F
Carson, City of	Compton Creek	Right Bank	County of Los Angeles	Yes	1901057158	Yes	06037C1815F
Carson, City of	Dominguez Channel	Left Bank	County of Los Angeles	Yes	1901057016	No	06037C1935F
Carson, City of	Dominguez Channel	Right Bank	County of Los Angeles	Yes	1901057114	No	06037C1935F
Carson, City of	Dominguez Channel	Left Bank	County of Los Angeles	Yes	1901057202	No	06037C1935F
Carson, City of	Dominguez Channel	Right Bank	County of Los Angeles	Yes	1901057132	No	06037C1935F
Long Beach, City of	Los Angeles River	Right Bank	County of Los Angeles	Yes	1901057176	Yes	06037C1962F
Los Angeles County, Unincorporated Areas	Violin Canyon Creek	Right Bank	County of Los Angeles	Yes	1904057151	No	06037C0575F 06037C0600G 06037C0805G
Montebello, City of	Rio Hondo Channel	Right Bank	County of Los Angeles	Yes	1901057052	Yes	06037C1664F
Santa Clarita, City of	Bouquet Canyon Creek	Left Bank	County of Los Angeles	Yes	1901057140	No	06037C0810G 06037C0817G
Santa Clarita, City of	Bouquet Canyon Creek	Right Bank	County of Los Angeles	Yes	1905057909	No	06037C0810G 06037C0817G
Santa Clarita, City of	Santa Clara River	Left Bank	County of Los Angeles	Yes	1901057092	No	06037C0818G
Santa Clarita, City of	Santa Clara River	Right Bank	County of Los Angeles	Yes	1901057115	No	06037C0840G

Table 9: Levees, continued

Community	Flooding Source	Levee Location	Levee Owner	USACE Levee	Levee ID	Covered Under PL84-99 Program?	FIRM Panel(s)
Santa Clarita, City of	Santa Clara River	Left Bank	County of Los Angeles	Yes	1905081017	No	06037C0816G
Santa Clarita, City of	Santa Clara River	Right Bank	County of Los Angeles	Yes	1901057135	No	06037C0840G
Santa Clarita, City of	Santa Clara River	Right Bank	County of Los Angeles	Yes	1905057199	No	06037C0818G
Santa Clarita, City of	Santa Clara River	Right Bank	County of Los Angeles	Yes	1901057906	No	06037C0840G
Santa Clarita, City of	San Francisquito Canyon Creek	Right Bank	County of Los Angeles	Yes	1905057008	No	06037C0815G
South Gate, City of	Los Angeles River	Left Bank	County of Los Angeles	Yes	1901057053	Yes	06037C1815F
South Gate, City of	Los Angeles River	Right Bank	County of Los Angeles	Yes	1901057054	Yes	06037C1815F
South Gate, City of	Los Angeles River	Left Bank	USACE, LA District	Yes	1901057064	Yes	06037C1810F
Long Beach, City of	Coyote Creek	Right Bank	USACE, LA District	Yes	1901057050	Yes	06037C1990F
Santa Clarita, City of	Santa Clara River	Right Bank	USACE, LA District	No	1901057908	Unknown	06037C0840G
Long Beach, City of	San Gabriel River	Right Bank	USACE, LA District	Yes	1901057051	Yes	06037C1990F
Santa Clarita, City of	Bouquet Canyon Creek	Right Bank	USACE, LA District	No	1901057909	Unknown	06037C0810G 06037C0817G
Santa Clarita, City of	Santa Clara River	Left Bank	USACE, LA District	No	1901057183	No	06037C0840G
Santa Clarita, City of	Santa Clara River	Left Bank	USACE, LA District	No	1901057911	Unknown	06037C0840G
Santa Clarita, City of	South Fork Santa Clara River	Left Bank	USACE, LA District	No	1901058269	No	06037C0818G
Santa Clarita, City of	South Fork Santa Clara River	Left Bank	USACE, LA District	No	1905057092	No	06037C0818G

# FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

**VOLUME 2 OF 9** 



# LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
AGOURA HILLS, CITY OF	065072	COMMERCE, CITY OF	060110
ALHAMBRA, CITY OF*	060095	COMPTON, CITY OF	060111
ARCADIA, CITY OF*	065014	COVINA, CITY OF*	065024
ARTESIA, CITY OF*	060097	CUDAHY, CITY OF	060657
AVALON, CITY OF	060098	CULVER CITY, CITY OF	060114
AZUSA, CITY OF	065015	DIAMOND BAR, CITY OF	060741
BALDWIN PARK, CITY OF*	060100	DOWNEY, CITY OF	060645
BELL, CITY OF*	060101	DUARTE, CITY OF*	065026
BELL GARDENS, CITY OF	060656	EL MONTE, CITY OF*	060658
BELLFLOWER, CITY OF	060102	EL SEGUNDO, CITY OF	060118
BEVERLY HILLS, CITY OF*	060655	GARDENA, CITY OF	060119
BRADBURY, CITY OF*	065017	GLENDALE, CITY OF	065030
BURBANK, CITY OF	065018	GLENDORA, CITY OF*	065031
CALABASAS, CITY OF	060749	HAWAIIAN GARDENS, CITY OF*	065032
CARSON, CITY OF	060107	HAWTHORNE, CITY OF*	060123
CERRITOS, CITY OF	060108	HERMOSA BEACH, CITY OF	060124
CLAREMONT, CITY OF*	060109	HIDDEN HILLS, CITY OF	060125

^{*}No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

FLOOD INSURANCE STUDY NUMBER

06037CV002F

Version Number 2.3.3.2



HUNTINGTON PARK, CITY OF* 060148 INDUSTRY, CITY OF* 065035 POMONA, CITY OF* 060149 INGLEWOOD, CITY OF* 065036 RANCHO PALOS VERDES, CITY OF 060464 IRWINDALE, CITY OF* 060129 REDONDO BEACH, CITY OF 060150 LA CANADA FLINTRIDGE, CITY OF* 060669 ROLLING HILLS, CITY OF* 060151 LA HABRA HEIGHTS, CITY OF* 060701 ROLLING HILLS ESTATES, CITY OF* 065054 LA QUENTE*, CITY OF* 060131 ROSEMEAD, CITY OF* 060153 LA PUENTE*, CITY OF 060131 ROSEMEAD, CITY OF* 060154 LA VERNE, CITY OF 060133 SAN DIMAS, CITY OF 060628 LAKEWOOD, CITY OF 060130 SAN GABRIEL, CITY OF* 065055 LANCASTER, CITY OF 060130 SAN GABRIEL, CITY OF* 060505 LANCASTER, CITY OF 060134 SANTA CLARITA, CITY OF 060729 LOMITA, CITY OF* 060135 SANTA FE SPRINGS, CITY OF 060158 LONG BEACH, CITY OF 060136 SANTA MONICA, CITY OF 060159 LOS ANGELES, CITY OF 060137 SIERRA MADRE, CITY OF* 060159 LOS ANGELES, CITY OF 060137 SIERRA MADRE, CITY OF* 060159 LOS ANGELES COUNTY UNINCORPORATED AREAS 065043 SIGNAL HILL, CITY OF* 060161 LYNWOOD, CITY OF* 060136 SOUTH BE MONTE, CITY OF* 060161 LYNWOOD, CITY OF* 060137 SIERRA MADRE, CITY OF* 060161 LYNWOOD, CITY OF* 060138 SOUTH BE MONTE, CITY OF* 060161 MANHATTAN BEACH, CITY OF 060138 SOUTH BE MONTE, CITY OF* 060163 MANHATTAN BEACH, CITY OF 060652 WEST COVINA, CITY OF* 060166 MONROVIA, CITY OF* 060141 VERNON, CITY OF* 060166 MONROVIA, CITY OF* 060141 VERNON, CITY OF* 060166 MONTERELUO, CITY OF* 060141 VERNON, CITY OF* 060166 MONTERELUO, CITY OF* 060141 VERNON, CITY OF* 060166 MONTERELUO, CITY OF* 060144 WEST HOLLYWOOD, CITY OF* 060166 PALMDALE, CITY OF 060144 WEST HOLLYWOOD, CITY OF* 060166 PALMDALE, CITY OF 060144 WEST HOLLYWOOD, CITY OF* 060166 PALMDALE, CITY OF 060144 WEST HOLLYWOOD, CITY OF* 060166	COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
INGLEWOOD, CITY OF*  060129  REDONDO BEACH, CITY OF 060150  LA CANADA FLINTRIDGE, CITY OF*  060699  ROLLING HILLS, CITY OF*  060151  LA HABRA HEIGHTS, CITY OF*  060701  ROLLING HILLS ESTATES, CITY OF*  060151  LA MIRADA, CITY OF  060131  ROSEMEAD, CITY OF*  060153  LA PUENTE*, CITY OF  060133  SAN FERNANDO, CITY OF  060154  LA VERNE, CITY OF  060130  SAN GABRIEL, CITY OF*  0605055  LANCASTER, CITY OF  060134  SANTA CLARITA, CITY OF  0605057  LAWNDALE, CITY OF*  060135  SANTA FE SPRINGS, CITY OF  060158  LONG BEACH, CITY OF  060136  SANTA MONICA, CITY OF  060159  LOS ANGELES, CITY OF  060137  SIERRA MADRE, CITY OF*  060161  LOS ANGELES COUNTY  UNINCORPORATED AREAS  065043  MANHATTAN BEACH, CITY OF  060138  SOUTH PASADENA, CITY OF*  060165  MONTEBELLO, CITY OF*  060165  MONTEBELLO, CITY OF*  060166  MONTEREY PARK, CITY OF*  060166  MONTEREY PARK, CITY OF*  0601610  WESTLAKE VILLAGE, CITY OF*  060166  PALMDALE, CITY OF  060140  WESTLAKE VILLAGE, CITY OF*  060160  060160  WHITTIER, CITY OF*  060166  MONTEREY PARK, CITY OF*  060166  MONTEREY PARK, CITY OF*  0601610  WESTLAKE VILLAGE, CITY OF*  060166  PALMDALE, CITY OF  060144  WEST HOLLYWOOD, CITY OF*  060160  060164  WHITTIER, CITY OF*  060166	HUNTINGTON PARK, CITY OF*	060126	PICO RIVERA, CITY OF	060148
IRWINDALE, CITY OF*   060129   REDONDO BEACH, CITY OF   060150     LA CANADA FLINTRIDGE, CITY OF*   060669   ROLLING HILLS, CITY OF*   060151     LA HABRA HEIGHTS, CITY OF*   060701   ROLLING HILLS ESTATES, CITY OF*   065054     LA MIRADA, CITY OF   060131   ROSEMEAD, CITY OF*   060153     LA PUENTE*, CITY OF   065039   SAN DIMAS, CITY OF   060154     LA VERNE, CITY OF   060133   SAN FERNANDO, CITY OF   060628     LAKEWOOD, CITY OF   060130   SAN GABRIEL, CITY OF*   065055     LANCASTER, CITY OF   060134   SANTA CLARITA, CITY OF*   0605057     LAWNDALE, CITY OF*   060134   SANTA CLARITA, CITY OF   060158     LONG BEACH, CITY OF   060135   SANTA MONICA, CITY OF   060158     LONG BEACH, CITY OF   060136   SANTA MONICA, CITY OF   060159     LOS ANGELES, CITY OF   060137   SIERRA MADRE, CITY OF*   060169     LOS ANGELES COUNTY UNINCORPORATED AREAS   065043   SIGNAL HILL, CITY OF*   060161     LYNWOOD, CITY OF   060635   SOUTH EL MONTE, CITY OF*   060162     MALIBU, CITY OF   060138   SOUTH GATE, CITY OF*   060163     MANHATTAN BEACH, CITY OF   060138   SOUTH PASADENA, CITY OF*   060651     MAYWOOD, CITY OF*   060651   TEMPLE CITY, CITY OF*   060165     MONTCEBELLO, CITY OF*   060141   VERNON, CITY OF*   060166     MONTEREY PARK, CITY OF*   065047   WALNUT, CITY OF*   060166     MONTEREY PARK, CITY OF*   060164   WEST HOLLYWOOD, CITY OF*   060666     PALMDALE, CITY OF   060144   WEST HOLLYWOOD, CITY OF*   060720     PALMOAURT, CITY OF   060145   WESTLAKE VILLAGE, CITY OF   060744     PARAMOUNT, CITY OF*   060145   WESTLAKE VILLAGE, CITY OF   060744     PARAMOUNT, CITY OF*   060145   WHITTIER, CITY OF   060744     PARAMOUNT, CITY OF*   060145   WHITTIER, CITY OF   060744     PARAMOUNT, CITY OF*   060145   WESTLAKE VILLAGE, CITY OF   060744     PARAMOUNT, CITY OF*   060145   WHITTIER, CITY OF   060744     PARAMOUNT, CITY OF*   060145   WHITTIER, CITY OF   060744     PARAMOUNT, CITY OF*   060145   WHITTIER, CITY OF   060160     WHITTIER, CITY OF   060145   WHITTIER, CITY OF   060160     CONTRACTOR OF THE TIME TOR OF	INDUSTRY, CITY OF*	065035	POMONA, CITY OF*	060149
LA CANADA FLINTRIDGE, CITY OF*         060669         ROLLING HILLS, CITY OF*         060151           LA HABRA HEIGHTS, CITY OF*         060701         ROLLING HILLS ESTATES, CITY OF*         065054           LA MIRADA, CITY OF         060131         ROSEMEAD, CITY OF*         060153           LA PUENTE*, CITY OF         065039         SAN DIMAS, CITY OF         060154           LA VERNE, CITY OF         060133         SAN FERNANDO, CITY OF         060628           LAKEWOOD, CITY OF         060130         SAN GABRIEL, CITY OF*         065055           LANCASTER, CITY OF         060672         SAN MARINO, CITY OF*         065057           LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYWOOD, CITY OF         06035         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060651         TEMPLE CITY, CITY OF*         065061	INGLEWOOD, CITY OF*	065036	RANCHO PALOS VERDES, CITY OF	060464
LA HABRA HEIGHTS, CITY OF*         060701         ROLLING HILLS ESTATES, CITY OF*         065054           LA MIRADA, CITY OF         060131         ROSEMEAD, CITY OF*         060153           LA PUENTE*, CITY OF         065039         SAN DIMAS, CITY OF         060154           LA VERNE, CITY OF         060133         SAN FERNANDO, CITY OF         060628           LAKEWOOD, CITY OF         060130         SAN GABRIEL, CITY OF*         065055           LANCASTER, CITY OF         060672         SAN MARINO, CITY OF*         065057           LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MONROVIA, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           <	IRWINDALE, CITY OF*	060129	REDONDO BEACH, CITY OF	060150
LA MIRADA, CITY OF         060131         ROSEMEAD, CITY OF*         060153           LA PUENTE*, CITY OF         065039         SAN DIMAS, CITY OF         060154           LA VERNE, CITY OF         060133         SAN FERNANDO, CITY OF         060628           LAKEWOOD, CITY OF         060130         SAN GABRIEL, CITY OF*         065055           LANCASTER, CITY OF         060672         SAN MARINO, CITY OF*         065057           LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         06035         SOUTH BL MONTE, CITY OF*         060162           MALIBU, CITY OF         06035         SOUTH GATE, CITY OF         060163           MAYWOOD, CITY OF*         060163         SOUTH PASADENA, CITY OF*         065061           MONROVIA, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONTEBELLO, CITY OF	LA CANADA FLINTRIDGE, CITY OF*	060669	ROLLING HILLS, CITY OF*	060151
LA PUENTE*, CITY OF         065039         SAN DIMAS, CITY OF         060154           LA VERNE, CITY OF         060133         SAN FERNANDO, CITY OF         060628           LAKEWOOD, CITY OF         060130         SAN GABRIEL, CITY OF*         065055           LANCASTER, CITY OF         060672         SAN MARINO, CITY OF*         065057           LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH BL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO,	LA HABRA HEIGHTS, CITY OF*	060701	ROLLING HILLS ESTATES, CITY OF*	065054
LA VERNE, CITY OF         060133         SAN FERNANDO, CITY OF         060628           LAKEWOOD, CITY OF         060130         SAN GABRIEL, CITY OF*         065055           LANCASTER, CITY OF         060672         SAN MARINO, CITY OF*         065057           LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         060651           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         060651         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK,	LA MIRADA, CITY OF	060131	ROSEMEAD, CITY OF*	060153
LAKEWOOD, CITY OF         060130         SAN GABRIEL, CITY OF*         065055           LANCASTER, CITY OF         060672         SAN MARINO, CITY OF*         065057           LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         06035         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF         065047         WALNUT, CITY OF         060666           PALMDALE, CITY O	LA PUENTE*, CITY OF	065039	SAN DIMAS, CITY OF	060154
LANCASTER, CITY OF         060672         SAN MARINO, CITY OF*         065057           LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTERELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060720           PALMDALE, CITY O	LA VERNE, CITY OF	060133	SAN FERNANDO, CITY OF	060628
LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF         065047         WALNUT, CITY OF         060666           PALMDALE, CITY OF         060652         WEST COVINA, CITY OF         060720           PALOS VERDES ESTATES, CITY OF         060145         WESTLAKE VILLAGE, CITY OF         060744	LAKEWOOD, CITY OF	060130	SAN GABRIEL, CITY OF*	065055
LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF         065047         WALNUT, CITY OF*         060666           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060720           PALOS VERDES ESTATES, CITY OF         060145         WESTLAKE VILLAGE, CITY OF         060744           PARAMOUNT, CITY OF         065049         WHITTIER, CITY OF         060169	LANCASTER, CITY OF	060672	SAN MARINO, CITY OF*	065057
LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF*         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060720           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060720           PALOS VERDES ESTATES, CITY OF         065049         WHITTIER, CITY OF         060169	LAWNDALE, CITY OF*	060134	SANTA CLARITA, CITY OF	060729
LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF*         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060720           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060744           PARAMOUNT, CITY OF         060145         WESTLAKE VILLAGE, CITY OF         060169	LOMITA, CITY OF*	060135	SANTA FE SPRINGS, CITY OF	060158
LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF*         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060666           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060720           PALOS VERDES ESTATES, CITY OF         060145         WESTLAKE VILLAGE, CITY OF         060169           PARAMOUNT, CITY OF         065049         WHITTIER, CITY OF         060169	LONG BEACH, CITY OF	060136	SANTA MONICA, CITY OF	060159
UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF*         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060666           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060720           PALOS VERDES ESTATES, CITY OF         060145         WESTLAKE VILLAGE, CITY OF         060744           PARAMOUNT, CITY OF         065049         WHITTIER, CITY OF         060169	LOS ANGELES, CITY OF	060137	SIERRA MADRE, CITY OF*	065059
MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         065069           MONTEREY PARK, CITY OF         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060666           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060720           PARAMOUNT, CITY OF         065049         WHITTIER, CITY OF         060169		065043	SIGNAL HILL, CITY OF*	060161
MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF*         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060666           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060720           PALOS VERDES ESTATES, CITY OF         060145         WESTLAKE VILLAGE, CITY OF         060169           PARAMOUNT, CITY OF         065049         WHITTIER, CITY OF         060169	LYNWOOD, CITY OF	060635	SOUTH EL MONTE, CITY OF*	060162
MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF*         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060666           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060720           PALOS VERDES ESTATES, CITY OF         060145         WESTLAKE VILLAGE, CITY OF         060744           PARAMOUNT, CITY OF         065049         WHITTIER, CITY OF         060169	MALIBU, CITY OF	060745	SOUTH GATE, CITY OF	060163
MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF*         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060666           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060720           PALOS VERDES ESTATES, CITY OF         060145         WESTLAKE VILLAGE, CITY OF         060744           PARAMOUNT, CITY OF         065049         WHITTIER, CITY OF         060169	MANHATTAN BEACH, CITY OF	060138	SOUTH PASADENA, CITY OF*	065061
MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF*         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060666           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060720           PALOS VERDES ESTATES, CITY OF         060145         WESTLAKE VILLAGE, CITY OF         060744           PARAMOUNT, CITY OF         065049         WHITTIER, CITY OF         060169	MAYWOOD, CITY OF*	060651	TEMPLE CITY, CITY OF*	060653
MONTEREY PARK, CITY OF* 065047 WALNUT, CITY OF* 065069  NORWALK, CITY OF 060652 WEST COVINA, CITY OF 060666  PALMDALE, CITY OF 060144 WEST HOLLYWOOD, CITY OF* 060720  PALOS VERDES ESTATES, CITY OF 060145 WESTLAKE VILLAGE, CITY OF 060744  PARAMOUNT, CITY OF 065049 WHITTIER, CITY OF 060169	MONROVIA, CITY OF*	065046	TORRANCE, CITY OF	060165
NORWALK, CITY OF 060652 WEST COVINA, CITY OF 060666  PALMDALE, CITY OF 060144 WEST HOLLYWOOD, CITY OF* 060720  PALOS VERDES ESTATES, CITY OF 060145 WESTLAKE VILLAGE, CITY OF 060744  PARAMOUNT, CITY OF 065049 WHITTIER, CITY OF 060169	MONTEBELLO, CITY OF	060141	VERNON, CITY OF*	060166
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PALOS VERDES ESTATES, CITY OF 060145 WESTLAKE VILLAGE, CITY OF 060744  PARAMOUNT, CITY OF 065049 WHITTIER, CITY OF 060169	NORWALK, CITY OF	060652	WEST COVINA, CITY OF	060666
PARAMOUNT, CITY OF 065049 WHITTIER, CITY OF 060169	PALMDALE, CITY OF	060144	WEST HOLLYWOOD, CITY OF*	060720
	PALOS VERDES ESTATES, CITY OF	060145	WESTLAKE VILLAGE, CITY OF	060744
PASADENA, CITY OF* 065050	PARAMOUNT, CITY OF	065049	WHITTIER, CITY OF	060169
	PASADENA, CITY OF*	065050		

^{*}No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

# FLOOD INSURANCE STUDY NUMBER **06037CV002F**

Version Number 2.3.3.2



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### **Published Separately**

Flood Insurance Rate Map (FIRM)

### **SECTION 5.0 – ENGINEERING METHODS**

For the flooding sources in the community, standard hydrologic and hydraulic study methods were used to determine the flood hazard data required for this study. Flood events of a magnitude that are expected to be equaled or exceeded at least once on the average during any 10-, 25-, 50-, 100-, or 500-year period (recurrence interval) have been selected as having special significance for floodplain management and for flood insurance rates. These events, commonly termed the 10-, 25-, 50-, 100-, and 500-year floods, have a 10-, 4-, 2-, 1-, and 0.2% annual chance, respectively, of being equaled or exceeded during any year.

Although the recurrence interval represents the long-term, average period between floods of a specific magnitude, rare floods could occur at short intervals or even within the same year. The risk of experiencing a rare flood increases when periods greater than 1 year are considered. For example, the risk of having a flood that equals or exceeds the 100-year flood (1-percent chance of annual exceedance) during the term of a 30-year mortgage is approximately 26 percent (about 3 in 10); for any 90-year period, the risk increases to approximately 60 percent (6 in 10). The analyses reported herein reflect flooding potentials based on conditions existing in the community at the time of completion of this study. Maps and flood elevations will be amended periodically to reflect future changes.

The engineering analyses described here incorporate the results of previously issued Letters of Map Change (LOMCs) listed in Table 27, "Incorporated Letters of Map Change", which include Letters of Map Revision (LOMRs). For more information about LOMRs, refer to Section 6.5, "FIRM Revisions."

### 5.1 Hydrologic Analyses

Hydrologic analyses were carried out to establish the peak elevation-frequency relationships for floods of the selected recurrence intervals for each flooding source studied. Hydrologic analyses are typically performed at the watershed level. Depending on factors such as watershed size and shape, land use and urbanization, and natural or man-made storage, various models or methodologies may be applied. A summary of the hydrologic methods applied to develop the discharges used in the hydraulic analyses for each stream is provided in Table 13. Greater detail (including assumptions, analysis, and results) is available in the archived project documentation.

A summary of the discharges is provided in Table 10. Frequency Discharge-Drainage Area Curves used to develop the hydrologic models may also be shown in Figure 7 for selected flooding sources. A summary of stillwater elevations developed for non-coastal flooding sources is provided in Table 11. (Coastal stillwater elevations are discussed in Section 5.3 and shown in Table 17.) Stream gage information is provided in Table 12.

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**Table 10: Summary of Discharges** 

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Acton Canyon	At confluence with Santa Clara River	20.9	900	*	2,750	4,080	*	9,050
Acton Canyon	Upstream of confluence with Escondido Canyon Creek	7.5	370	*	1,130	1,670	*	3,700
Agua Dulce Canyon Creek	At confluence with Santa Clara River	29.5	670	*	2,030	3,010	*	6,680
Agua Dulce Canyon Creek	At Sierra Highway	15.6	390	*	1,190	1,770	*	3,930
Agua Dulce Canyon Creek	At Agua Dulce Canyon Road	*	650	*	1,970	2,920	*	6,480
Aliso Canyon Creek	Approximately 0.9 miles upstream of Aliso Canyon Road	*	930	*	2,840	4,210	*	9,340
Aliso Canyon Creek	At Aliso Canyon Road	*	940	*	2,880	4,270	*	9,470
Aliso Canyon Creek	At confluence with Santa Clara River	*	1,030	*	3,160	4,680	*	10,380
Amargosa Creek	East of Antelope Valley Freeway north of Avenue H	206	3,000	*	9,000	13,000	*	30,000
Amargosa Creek	West of Antelope Valley Freeway north of Avenue H	147	2,000	*	5,600	8,400	*	18,000
Amargosa Creek	Approximately midway between 20th Street West and 10th Street West	32.7	1,800	*	3,300	5,000	*	10,100

Table 10: Summary of Discharges, continued

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Amargosa Creek	At 10th Street West	32.0	*	*	*	2,364	*	*
Amargosa Creek	At 25th Street West Bridge	30.0	*	*	*	2,341	*	*
Amargosa Creek	At Elizabeth Lake Ford Crossing	28.6	*	*	*	2,288	*	*
Amargosa Creek	At Vineyard Ranch	26.5	*	*	*	2,063	*	*
Amargosa Creek	At Outlet of Ritter Ranch Detention Pond	23.8	*	*	*	1,856	*	*
Amargosa Creek	At 90th Street West	6.9	580	*	2,000	3,100	*	4,500
Amargosa Creek Tributary	Intersection of Avenue I and Spearman Avenue	7.2	310	*	900	1,220	*	2,400
Amargosa Creek Tributary	Intersection of Avenue L and 3rd Street East	2.4	150	*	420	560	*	1,000
Amargosa Creek Tributary	Avenue M and Valleyline Drive	1.8	120	*	340	460	*	850
Anaverde Creek	Acton Canyon Road, Escondido Canyon Road, and Crown Valley Road	20.3	*	*	*	3,421	*	6,052
Anaverde Creek	West of Sierra Highway at Avenue P- 8	19.0	700	*	2,100	3,100	*	6,600
Anaverde Creek	At Antelope Freeway	16.4	*	*	*	3,730	*	*
Anaverde Creek	East of Antelope Valley Freeway	16.0	700	*	2,100	3,000	*	6,400
Anaverde Creek	1.85 Miles downstream of California Aqueduct	15.7	*	*	*	3,630	*	*
Anaverde Creek	1.47 miles downstream of California Aqueduct	12.8	*	*	*	3,200	*	*

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Anaverde Creek	0.75 miles downstream of California Aqueduct	11.8	*	*	*	3,050	*	*
Anaverde Creek	At California Aqueduct	8.3	*	*	*	2,440	*	*
Anaverde Creek	3,000 feet east of 165th Street East and 4,000 feet south of Pearblossom Highway	7.3	500	*	1,700	2,300	*	4,700
Anaverde Creek	West of 136th Street East at Avenue W-8	2.4	440	*	1,500	1,900	*	3,900
Anaverde Creek	165th Street East approximately 4,000 feet south of Pearblossom Highway	1.0	370	*	1,300	1,600	*	3,100
Anaverde Creek Tributary	Division Street between Avenue P and Avenue P-8	1.4	300	*	1,100	1,600	*	3,000
Avalon Canyon	At Cross Section A	3.7	859	*	1,895	2,419	*	3,785
Avalon Canyon	At Cross Section G	1.8	440	*	971	1,239	*	1,938
Ballona Creek Channel	At intersection of Adams Boulevard and Genesee Avenue	16.7	2,100	*	4,700	6,000	*	9,400
Bel Air Estates Shallow Flooding	Beverly Glen Boulevard north of Sunset Boulevard	1.2	700	*	1,000	1,200	*	1,600
Bel Air Estates Shallow Flooding	Stone Canyon Road south of Bellagio Road	1.0	630	*	940	1,100	*	1,400
Bel Air Estates Shallow Flooding	Stone Canyon Road south of Somma Way	0.7	480	*	710	800	*	1,100
Big Rock Wash	At mouth, southwest	23.0	*	*	*	15,000	*	*
Big Tujunga Canyon	Upstream of Wheatland Avenue	43.3	9,300	*	26,800	38,900	*	66,000

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Big Tujunga Canyon	Approximately 1,200 feet upstream of Foothill Boulevard and Tujuna Valley Street	34.6	8,100	*	24,700	36,500	*	62,600
Bouquet Canyon Creek	At confluence with Santa Clara River	72.2	3,470	*	10,600	15,700	*	34,820
Bouquet Canyon Creek	Approximately 700 feet downstream of Bouquet Canyon Road	60.6	2,750	*	8,400	12,440	*	27,590
Bouquet Canyon Creek	Upstream of confluence with Haskell Canyon	50.9	2,060	*	6,300	9,340	*	20,720
Bouquet Canyon Creek	Approximately 1,000 feet downstream of Benz Road	46.3	1,880	*	5,740	8,510	*	18,880
Bouquet Canyon Creek	Approximately 500 feet upstream of Bouquet Canyon Road	45.2	1,820	*	5,570	8,250	*	18,300
Bouquet Canyon Creek	Upstream of confluence of Vasquez Canyon	35.4	1,700	*	5,180	7,680	*	17,030
Bouquet Canyon Creek	Upstream of confluence of Texas Canyon Creek	24.4	920	*	4,180	9,270	*	9,270
Bouquet Canyon Creek	Approximately 1.7 miles upstream of confluence of Texas Canyon Creek	*	860	*	3,870	8,580	*	8,580
Brentwood Shallow Flooding	Northeast of Sunset Boulevard and Barrington Avenue	0.2	230	*	340	390	*	520
Brentwood Shallow Flooding	North of San Vicente Boulevard, west of Westgate Avenue	0.2	60	*	140	180	*	280

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Castaic Creek	At Santa Clara River Confluence (Pump Capacity)	203	17,950	*	33,490	41,260	*	58,270
Castaic Creek	At confluence with Santa Clara River	*	3,220	6,330	9,830	14,560	*	32,290
Castaic Creek	At Golden State Freeway	*	3,200	6,300	9,770	14,480	*	32,120
Castaic Creek	Approximately 0.9 miles upstream of Golden State Freeway	*	3,120	6,150	9,540	14,130	*	31,340
Castaic Creek	At Castaic Road	*	2,610	5,150	7,990	11,830	*	26,240
Castaic Creek	Approximately 2,100 feet upstream of Confluence with Charlie Canyon	16.8	*	*	*	11,805	*	22,326
Century City Shallow Flooding	Northwest of Santa Monica Boulevard and Avenue of the Stars	0.5	400	*	590	700	*	900
Chatsworth Shallow Flooding	Vicinity of Variel Avenue and Chatsworth Street	13.4	2,100	*	4,700	6,000	*	9,300
Chatsworth Shallow Flooding	Vicinity of Santa Susana Pass Road and Santa Susana Avenue	1.5	450	*	990	1,300	*	2,000
Chatsworth Shallow Flooding	Vicinity of Chatsworth Street and Corbin Avenue	0.9	220	*	480	610	*	960
Chatsworth Shallow Flooding	Vicinity of Canoga Avenue and Devonshire Street	0.8	230	*	510	650	*	1,000
Chatsworth Shallow Flooding	Vicinity of Valley Circle Boulevard and Lassen Street	0.8	220	*	480	600	*	950

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Chatsworth Shallow Flooding	Vicinity of Farrolone Avenue and Lassen Street	0.4	100	*	220	280	*	440
Chatsworth Shallow Flooding	Vicinity of Topanga Canyon Boulevard and Lassen Street	0.3	50	*	120	150	*	230
Chatsworth Shallow Flooding	Vicinity of Topanga Canyon Boulevard and Santa Susana Place	0.1	20	*	50	60	*	100
Cheseboro Creek	1,100 feet upstream of Driver Avenue	7.6	2,169	*	4,779	6,088	*	9,551
Cold Creek	At the intersection of Crater Camp Drive and Piuma Road	8.1	2,280	*	5,019	6,406	*	10,023
Cold Creek	Approximately 250 feet upstream of Malibu Meadows Road	7.8	2,280	*	5,041	6,432	*	10,066
Cold Creek	Approximately 300 feet downstream of Cam Colibri	5.7	1,734	*	3,826	4,881	*	7,640
Dark Canyon	Cross Section A	1.2	753	*	1,600	2,118	*	3,314
Dowd Canyon	At Calle Corona Extended	3.9	*	*	*	2,982	*	5,963
Dry Canyon	Approximately 2,000 feet upstream of San Francisquito Road	5.5	*	*	*	5,235	*	10,470
Dry Canyon	Cross Section C	1.1	527	*	1,104	1,484	*	2,323
Dry Canyon	Cross Section M	0.8	490	*	1,083	1,382	*	2,162
Dry Canyon	Cross Section T	0.4	242	*	534	681	*	1,065
Elsmere Canyon Creek	Approximately 358 feet east to Sierra Hwy	2.2	1,096	1,383	1,604	1,822	*	2,320
Elsmere Canyon Creek	Approximately 78 feet north to Wager Road	2.1	1,096	1,383	1,596	1,809	*	2,297

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Elsmere Canyon Creek	Approximately 300 feet east to Elsmere Canyon Road	2.0	1,048	1,317	1,517	1,717	*	2,176
Elsmere Canyon Creek	Approximately 557 feet east to Elm Shore Canyon Mtwy	1.7	905	1,132	1,301	1,470	*	1,857
Elizabeth Canyon	Approximately 2,300 feet downstream of Elizabeth Lake Pine Canyon Road	7.7	*	*	*	3,455	*	7,176
Escondido Canyon	At confluence with Acton Canyon Creek	13.0	530	*	1,610	2,390	*	5,300
Garapito Canyon	Cross Section A	2.9	996	*	2,171	2,807	*	4,392
Garapito Canyon	Cross Section E	2.0	675	*	1,470	1,910	*	2,974
Gorman Creek	Approximately 250 feet north of Interstate Highway 5 overcrossing Gorman Road	3.8	*	*	*	1,713	*	3,221
Granada Hills	Superior Street, west of Paso Robles Avenue	0.5	90	*	200	260	*	400
Granada Hills	Vicinity of Balboa Boulevard and Citronia Street	0.5	90	*	200	260	*	400
Hacienda Creek	Cross Section A	1.5	626	*	1,381	1,762	*	2,758
Hancock Park Shallow Flooding	Vicinity of Highland Avenue and St. Elmo Drive	20.2	3,600	*	7,700	9,300	*	13,700
Hancock Park Shallow Flooding	Vicinity of San Vicente and Pico Boulevards	18.9	3,500	*	7,400	9,000	*	13,100

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Hancock Park Shallow Flooding	Vicinity of West Boulevard and Dockweiler Street	18.8	3,600	*	7,600	9,300	*	13,600
Hancock Park Shallow Flooding	Vicinity of Bronson Avenue and Country Club Drive	18.1	3,700	*	7,900	9,600	*	14,000
Hancock Park Shallow Flooding	Sixth Street, vicinity of Alexandria Avenue	8.1	2,100	*	4,600	5,900	*	9,200
Hancock Park Shallow Flooding	Chesapeake Avenue, vicinity of Exposition Boulevard	8.0	1,100	*	2,400	3,000	*	3,700
Hancock Park Shallow Flooding	Vicinity of Western Avenue and 11th Street	3.5	670	*	1,300	1,600	*	2,500
Hancock Park Shallow Flooding	Victoria Avenue, vicinity of Jefferson Boulevard	1.2	320	*	1,100	1,400	*	2,600
Hancock Park Shallow Flooding	Arlington Avenue, vicinity of 37th Place	0.7	440	*	990	1,400	*	2,500
Hancock Park Shallow Flooding	Olympic Boulevard at Hudson Avenue	0.6	130	*	290	370	*	570
Hancock Park Shallow Flooding	Harcourt Avenue, vicinity of Westhaven Street	0.5	160	*	350	450	*	700
Hancock Park Shallow Flooding	Lucerne Boulevard at Francis Avenue	0.3	70	*	160	200	*	320
Harbor Area Shallow Flooding	North of Carson Street between Vermont and Berendo Avenues	0.4	74	*	164	209	*	327
Harbor District Shallow Flooding	Harbor Lake, southeast of Vermont Avenue and Pacific Coast Highway	19.0	3,200	*	7,000	8,900	*	14,000

Table 10: Summary of Discharges, continued

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Harbor District Shallow Flooding	Denker Avenue, vicinity of 204th Street	0.3	60	*	130	170	*	260
Haskell Canyon	At confluence with Bouquet Canyon Creek	9.8	730	*	2,240	3,320	*	7,360
Hasley Canyon Creek	Approximately 1,150 feet downstream of Halsey Canyon Road	7.3	*	*	*	5,544	*	10,163
Hasley Canyon Creek	Approximately 550 feet downstream ofRomero Canyon Road	5.9	*	*	*	4,523	*	8,292
Hasley Canyon Creek	Approximately 600 feet downstream of Romero Canyon Road	*	220	*	680	1,006	*	2,230
Hasley Canyon Creek	Approximately 0.2 miles downstream of Hasley Canyon Road	*	330	*	1,010	1,503	*	3,330
Hasley Canyon Creek	At confluence with Castaic Creek	*	360	*	1,110	1,640	*	3,640
Hollywood Shallow Flooding	Third Street at Kenmore Avenue	3.4	800	*	1,800	2,300	*	3,500
Hollywood Shallow Flooding	South of Hollywood Freeway, vicinity of Kenmore Avenue	3.2	830	*	1,800	2,300	*	3,700
Hollywood Shallow Flooding	Santa Monica Boulevard, vicinity of Mariposa Avenue	2.8	940	*	2,100	2,700	*	4,200
Hollywood Shallow Flooding	Madison Avenue at Monroe Street	0.5	160	*	350	440	*	690
Hyde Park Shallow Flooding	South of Southwest Drive, vicinity of Van Ness Avenue	4.2	730	*	1,600	2,100	*	3,200
Hyde Park Shallow Flooding	Wilton Place, vicinity of Gage Avenue	3.3	770	*	1,600	1,900	*	3,000

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Hyde Park Shallow Flooding	Halldale Avenue, vicinity of 65th Street	1.2	300	*	660	850	*	1,300
Industry Area Shallow Flooding	Vicinity of Brea Canyon Road and Lycoming Street	3.9	952	*	2,102	2,682	*	4,197
Iron Canyon	At confluence with Sand Canyon Creek	2.7	210	*	640	950	*	2,110
Iron Canyon	At North Iron Canyon Road	*	160	*	500	740	*	1,640
Kagel Canyon Area	Cross Section A	2.0	490	*	1,081	1,380	*	2,159
Kagel Canyon	Approximately 650 feet upstream of Osborne Avenue	2.0	490	*	1,100	1,400	*	12,200
Kentucky Springs Canyon Creek	At confluence with Soledad Canyon	*	220	*	670	990	*	2,200
La Mirada Area	Mystic Street, vicinity of Parkinson Avenue	0.3	81	*	179	228	*	357
La Mirada Creek	Approximately 1,100 feet downstream of La Mirada Boulevard	5.0	610	*	1,350	1,720	*	2,690
La Mirada Creek	At Ocaso Avenue	4.6	610	*	1,340	1,700	*	2,670
Ladera Heights Area Shallow Flooding	Vicinity of La Cienega Boulevard and Slauson Avenue	0.5	138	*	305	389	*	609
Las Flores Canyon	Cross Section F	4.1	1,758	*	3,882	4,954	*	7,752
Las Virgenes Creek	Approximately 1,500 feet downstream of the confluence of Stokes Canyon	24.3	9,230	11,913	13,678	15,521	*	18,704
Las Virgenes Creek	Downstream of the confluence of Stokes Canyon	24.3	9,228	11,909	13,673	15,515	*	18,811

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Las Virgenes Creek	Upstream of the confluence of Stokes Canyon	19.7	9,193	12,066	13,766	15,646	*	19,340
Las Virgenes Creek	At Mulholland Highway	19.1	6,873	9,014	10,346	11,929	*	14,853
Las Virgenes Creek	Upstream of the confluence of Liberty Canyon	16.6	6,871	9,025	10,348	11,935	*	15,210
Las Virgenes Creek	Approximately 1,500 feet upstream of the confluence of Liberty Canyon	16.5	5,862	7,440	8,799	10,069	*	12,755
Las Virgenes Creek	Approximately 4,000 feet upstream of the confluence of Liberty Canyon	16.2	5,783	7,350	8,676	9,913	*	12,554
Las Virgenes Creek	Approximately 1,800 feet downstream of Lost Hills Road	15.0	5,414	6,923	8,112	9,246	*	11,714
Las Virgenes Creek	At Lost Hills Road	15.0	5,420	6,932	8,133	9,281	*	11,764
Las Virgenes Creek	At Meadow Creek Lane	14.9	5,414	6,923	8,124	9,269	*	11,751
Las Virgenes Creek	Approximately 1,600 feet upstream of Meadow Creek Lane	13.3	4,860	6,190	7,211	8,197	*	10,356
Las Virgenes Creek	Just downstream of Agola Road	12.7	4,783	6,091	7,040	8,005	*	10,076
Las Virgenes Creek	Just downstream of US Highway 101	10.4	3,830	4,875	5,644	6,419	*	8,137
Las Virgenes Creek	Just downstream of Las Virgenes Road	10.2	3,787	4,818	5,577	6,340	*	8,044
Liberty Canyon	Cross Section E	1.4	938	*	2,072	2,645	*	4,140
Lindero Canyon	Cross Section C	6.7	1,725	*	3,809	4,860	*	7,604

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Lindero Canyon	Approximately 700 feet downstream of Thousand Oaks Boulevard	4.1	1,369	*	3,024	3,858	*	6,037
Lindero Canyon	Cross Section H	3.8	1,343	*	2,965	3,783	*	5,920
Lindero Canyon	At Reyes Adobe Road	3.4	1,290	*	2,847	3,632	*	5,685
Lindero Canyon	Cross Section N	3.1	1,258	*	2,776	3,542	*	5,545
Lion Canyon	At confluence with Santa Clara River	*	50	*	140	210	*	470
Little Rock Wash	At Little Rock Reservoir	48.0	*	*	*	20,000	*	*
Little Tujunga Wash	Approximately 1,600 feet Upstream of Foothill Boulevard	20.3	2,700	*	6,000	7,700	*	12,200
Little Tujunga Wash	Approximately 3,000 feet upstream of the City of Los Angeles Corporate Limits	17.9	2,273	*	5,019	6,405	*	10,022
Lobo Canyon	Cross Section B	3.8	1,572	*	3,473	4,429	*	6,932
Lobo Canyon	Cross Section C	2.5	1,625	*	3,588	4,579	*	7,166
Lockheed Drain Channel	Approximately 100 feet downstream of Burbank Boulevard	3.7	*	*	*	2,910	*	*
Lockheed Drain Channel	Approximately 300 feet downstream of Victory Place	2.5	*	*	*	2,410	*	*
Lockheed Drain Channel	Approximately 100 feet downstream of Naomi Street	1.9	*	*	*	2,026	*	*
Lockheed Drain Channel	At Ontario Street	1.8	*	*	*	2,054	*	*
Lockheed Drain Channel	Approximately 300 feet upstream of Lima Street	1.4	*	*	*	1,635	*	*

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Lockheed Drain Channel	Approximately 150 feet downstream of Hollywood Way	0.9	*	*	*	965	*	*
Lockheed Drain Channel	Approximately 450 feet upstream of Clybourn Avenue	0.4	278	*	*	448	*	*
Long Canyon	Approximately 1.4 miles upstream of confluence with Santa Clara River	*	60	*	180	260	*	580
Long Canyon	At confluence with Santa Clara River	*	40	*	110	170	*	380
Lopez Canyon Channel	Cross Section A	1.8	682	*	1,506	1,922	*	3,007
Los Angeles River	At Compton Creek	808	92,900	*	133,000	142,000	*	143,000
Los Angeles River	At Imperial Highway	752	89,400	*	126,000	140,000	*	156,000
Malibu Creek	Cross Section A	110	14,183	*	31,648	40,544	*	63,934
Malibu Lake	Malibu Lake	64.6	11,859	*	26,556	34,043	*	53,712
Medea Creek	Cross Section B	24.6	5,794	*	12,788	16,319	*	25,537
Medea Creek	Cross Section H	23.0	6,174	*	13,628	17,389	*	25,537
Medea Creek	Cross Section K	22.2	6,363	*	14,074	17,925	*	28,049
Medea Creek	Cross Section P	6.3	2,558	*	5,647	7,204	*	11,272
Medea Creek	Downstream of Ventura Highway	6.3	2,560	*	2,645	7,200	*	11,270
Medea Creek	Approximately 950 feet upstream of Canwood Street	1	*	*	*	6,720	*	*
Medea Creek	Approximately 1,100 feet upstream of Kanan Road	1	*	*	*	5,960	*	*
Medea Creek	At Thousand Oaks Boulevard	1	*	*	*	5,946	*	*
Medea Creek	Approximately 1,700 feet downstream of Laro Drive	4.1	*	*	*	5,320	*	*

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Medea Creek	Just upstream of Fountainwood Street	3.4	*	*	*	4,700	*	*
Mill Creek	Cross Section B	14.8	2,274	*	5,019	6,405	*	10,024
Mint Canyon Creek	At confluence with Santa Clara River	29.4	1,786	*	4,489	5,856	*	8,367
Mint Canyon Creek	Approximately 2,700 feet downstream of Fitch Avenue	1	1,787	*	4,471	5,814	*	8,253
Mint Canyon Creek	Approximately 600 feet upstream of Vasquez Canyon Road	1	1,769	*	4,134	5,283	*	7,359
Mint Canyon Creek	Approximately 1,300 feet downstream of Sierra Highway crossing 4	1	1,717	*	3,958	4,994	*	6,897
Mint Canyon Creek	Upstream of Sierra Highway crossing 5	1	1,222	*	2,767	3,433	*	4,656
Mint Canyon Creek	Upstream of confluence of Spade Spring Canyon Creek	1	685	*	1,494	1,834	*	2,461
Newhall Creek	Confluence with South Fork Santa Clara River	17.2	3,610	*	6,890	8,240	*	10,990
Newhall Creek	Upstream of confluence of Placerita Creek	7.3	2,430	*	4,020	4,640	*	6,020
Newhall Creek	Upstream of confluence with Railroad Canyon Creek Left Overbank	6.2	2,007	*	3,290	3,792	*	4,894
Newhall Creek	Upstream of confluence with Railroad Canyon Creek	5.2	1,920	*	3,150	3,630	*	4,680

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Newhall Creek	Intersection of Sierra Hwy and Newhall Ave	3.1	1,096	1,383	1,604	1,822	*	2,320
Newhall Creek	Intersection of Molokai Road with Newhall Creek	5.2	1,398	1,789	2,086	2,380	*	3,051
Newhall Creek Left Overbank 2	At the intersection of Walnut St and 16 th Street	*	*	*	*	815	*	2,356
Newhall Creek Left Overbank 2	At the intersection of Walnut St and 8 th Street	*	*	*	*	697	*	1,687
Newhall Creek Left Overbank 2	At the intersection of Market St and Real Road Avenue	*	*	*	*	488	*	1,159
Oak Springs Canyon	Approximately 100 feet upstream of Union Pacific Railroad (former Southern Pacific Railroad)	5.7	*	*	*	2,703	*	4,054
Oak Springs Canyon	At confluence with Santa Clara River	*	250	*	770	1,140	*	2,530
Oak Springs Canyon	At intersection of Sixth Street and Quincy Avenue	1.0	271	*	598	763	*	1,194
Old Topanga Canyon	Approximately 300 feet downstream of Zuniga Road	1.7	567	*	1,253	1,597	*	2,499
Old Topanga Canyon	Approximately 450 feet downstream of the intersection of Oak Drive and Sycamore Drive	0.8	251	*	554	706	*	1,104
Overland Flow	Marquardt Avenue, 1400 feet north of	2.1	411	*	907	1,158	*	1,812

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Overland Flow	North of Florence Avenue and east of Pioneer Boulevard	1.3	270	*	596	760	*	1,190
Overland Flow	North of Lakeland Road, 1,000 feet east of Bloomfield Avenue	0.4	68	*	151	192	*	301
Palo Comado Creek	Cross Section E	4.1	1,159	*	2,562	3,268	*	5,113
Palo Comado Creek	At Fairview Place	3.5	1,074	*	2,374	3,028	*	4,738
Palo Comado Creek	Cross Section K	3.2	1,032	*	2,279	2,908	*	4,551
Park La Brea Shallow Flooding	Vicinity of Orange Drive and Pickford Street	24.7	4,400	*	9,500	11,800	*	17,700
Park La Brea Shallow Flooding	Venice Boulevard, vicinity of Fairfax Avenue	18.4	3,400	*	7,500	9,500	*	14,900
Park La Brea Shallow Flooding	Vicinity of Whitworth Drive and La Cienega Boulevard	17.1	3,400	*	7,600	9,700	*	15,200
Park La Brea Shallow Flooding	Fairfax Avenue, vicinity of La Cienga Boulevard	16.7	2,100	*	4,700	6,000	*	9,600
Park La Brea Shallow Flooding	Houser Boulevard, vicinity of La Cienega Boulevard	14.8	1,900	*	4,300	5,500	*	8,800
Park La Brea Shallow Flooding	Redondo Boulevard, vicinity of Roseland Street	14.5	2,000	*	4,400	5,700	*	9,100
Park La Brea Shallow Flooding	Wilshire Boulevard, vicinity of Crescent Heights Avenue	6.6	1,500	*	3,300	4,200	*	6,600
Park La Brea Shallow Flooding	Redondo Boulevard, vicinity of Santa Monica Freeway	1.2	300	*	670	860	*	1,300
Pico Canyon (South Fork Santa Clara River Trib)	At Tournament Road	*	420	*	1,290	1,910	*	4,240

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Pico Canyon	At Golden State Freeway	*	390	*	1,190	1,770	*	3,930
Pico Canyon	At Stevenson Ranch Parkway	*	230	*	700	1,040	*	2,310
Pine Canyon	Approximately 1,200 feet upstream of Lake Hughes Road	6.4	*	*	*	2,969	*	6,166
Placerita Creek	At confluence with Newhall Creek	*	2,061	*	3,494	4,106	*	5,508
Placerita Creek	Approximately 0.2 miles upstream of Los Angeles Aqueduct	*	1,870	*	3,156	3,694	*	4,961
Placerita Creek	Approximately 0.8 miles upstream of Antelope Valley Freeway	*	1,601	*	2,706	3,179	*	4,279
Placerita Creek	At Placerita Canyon Road	*	1,464	*	2,457	2,880	*	3,868
Plum Canyon	Approximately 2,350 feet upstream of Bouquet Canyon Road	3.4	*	*	*	1,942	*	3,453
Plum Canyon	At confluence with Bouquet Canyon	*	240	*	730	1,080	*	2,400
Ponding	At Intersection of Mines Avenue and Taylor Avenue	0.5	120	*	250	330	*	510
Portal Ridge Wash	Intersection of Avenue H and Antelope Valley	147	1,600	*	5,000	7,200	*	16,000
Porter Ranch	Mayerling Street, northwest of Shoshone Avenue	0.2	40	*	100	120	*	190
Porter Ranch	Vicinity of Sesnon Boulevard	0.1	30	*	60	70	*	120
Potrero Canyon	At confluence with Santa Clara River	*	430	*	1,300	1,930	*	4,280

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
		Drainage Area	10% Annual	4% Annual	2% Annual	1% Annual Chance	1% Annual Chance	0.2% Annual
Flooding Source	Location	(Square Miles)	Chance	Chance	Chance	Existing	Future	Chance
Potrero Canyon	Approximately 1.25 miles upstream of confluence with Santa Clara River	*	360	*	1,090	1,620	*	3,590
Potrero Canyon	Approximately 0.8 miles downstream of Pico Canyon Road	*	80	*	260	380	*	840
Quigley Canyon Creek	At confluence with Placerita Creek	*	340	*	919	1,162	*	1,789
Quigley Canyon Creek	At Meadview Avenue	*	340	*	781	994	*	1,542
Quigley Canyon Creek	Approximately 350 feet upstream of Meadview Avenue	*	340	*	723	920	*	1,429
Quigley Canyon Creek	120 feet downstream of Quigley Canyon Road	*	340	*	675	847	*	1,253
Quigley Canyon Creek	120 feet upstream of Quigley Canyon Road	*	340	*	643	786	*	1,122
Quigley Canyon Creek	180 feet downstream of Fino Mountainway	*	298	*	570	695	*	993
Quigley Canyon Creek	At Fino Mountainway	*	191	*	378	467	*	675
Quigley Canyon Creek	Approximately 0.4 miles downstream of Los Angeles Aqueduct	*	165	*	329	405	*	587
Railroad Canyon	At confluence with Newhall Creek	1.4	540	*	870	1,010	*	1,330
Ramirez Canyon	Cross Section B	3.3	1,066	*	2,352	3,000	*	4,696
Ramirez Canyon	Cross Section I	2.8	1,150	*	2,540	3,240	*	5,070
Rio Hondo	At Stewart and Gray	132	35,600	*	41,000	39,300	*	40,200
Rio Hondo	At Beverly Boulevard	113	33,800	*	37,50	38,000	*	38,400

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Rio Hondo	At outflow from Whittier Narrows Dam	110	33,500	*	36,500	36,500	*	36,500
Rustic Canyon	Approximately 1,030 feet downstream (south) of Sunset Boulevard	5.7	700	*	1,500	2,000	*	3,100
San Fernando Pacoima Wash	Approximately 150 feet downstream of Shablow Avenue	31.1	1,900	*	5,600	8,100	*	12,100
San Francisquito Canyon Creek	At confluence with Santa Clara River	49.1	3,170	*	9,690	14,360	*	31,850
San Gabriel River	Whittier Narrows Flood Control Basin at Siphon Road	524	*	*	*	90,000	*	*
San Martinez Chiquito Canyon	Approximately 1,000 feet upstream of Chiquito Canyon Road (Lower Crossing)	4.7	*	*	*	4,659	*	8,607
San Martinez Chiquito Canyon	Approximately 400 feet upstream of Chiquito Canyon Road (Upper Crossing)	3.1	*	*	*	3,112	*	5,705
San Martinez Chiquito Canyon	Approximately 250 feet downstream of Verdale Street	1.1	*	*	*	1,205	*	2,208
San Martinez Chiquito Canyon	At confluence with Santa Clara River	*	200	*	610	901	*	2,000

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
San Martinez Chiquito Canyon	Approximately 0.2 miles upstream of Chiquito Canyon Road	*	190	*	570	838	*	1,860
San Martinez Chiquito Canyon	At Chiquito Canyon Road	*	150	*	460	681	*	1,510
San Martinez Chiquito Canyon	At Kenningston Road	*	110	*	330	491	*	1,090
San Martinez Grande Canyon Creek	At confluence with Santa Clara River	*	200	*	600	895	*	1,990
Sand Canyon Creek	At confluence with Santa Clara River	12.7	1,210	*	3,700	5,480	*	12,150
Sand Canyon Creek	At Alamo Canyon Road	*	1,100	*	3,350	4,965	*	11,010
Sand Canyon Creek	Approximately 700 feet downstream of Valley Ranch Road	1	1,244	*	2,795	3,477	*	4,796
Sand Canyon Creek	Upstream of confluence of Iron Canyon	7.5	650	*	1,980	2,930	*	6,500
Sand Canyon Creek	Approximately 2,700 feet downstream of Placerita CanyonRoad	1	917	*	1,912	2,345	*	3,178
Sand Canyon Creek	At Placerita Canyon Road	1	848	*	1,756	2,156	*	2,919
Sand Canyon Creek	700 feet above 25975 Sand Canyon Road	1	644	*	1,295	1,591	*	2,152
Santa Clara River	At Los Angeles County/Ventura County Line	639	15,700	*	45,900	66,600	*	140,000
Santa Clara River	Upstream of confluence of Castaic Creek	420	13,270	*	35,910	50,380	*	78,320

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Santa Clara River	Approximately 8,000 feet upstream of confluence of Castaic Creek	418	13,250	*	35,860	50,270	*	78,040
Santa Clara River	Approximately 650 feet downstream of The Old Road	412	13,120	*	35,690	49,990	*	77,430
Santa Clara River	Upstream of confluence of San Francisquito Canyon Creek	357	9,790	*	28,790	41,560	*	65,810
Santa Clara River	Upstream of confluence of South Fork Santa Clara River	312	7,460	*	23,120	33,890	*	53,570
Santa Clara River	Upstream of confluence of Bouquet Canyon Creek	239	5,400	*	17,620	26,210	*	41,080
Santa Clara River	Approximately 4,600 feet downstream of Soledad Canyon Road	233	5,290	*	17,390	25,910	*	40,550
Santa Clara River	Upstream of confluence of Mint Canyon Creek	195	4,140	*	14,320	21,690	*	33,990
Santa Clara River	At Sand Canyon Road	179	3,840	*	12,810	19,500	*	30,490
Santa Clara River	Approximately 4,800 feet downstream of Lang Station Road	171	3,770	*	12,370	18,730	*	29,130
Santa Clara River	Approximately 1,600 feet upstream of Bootlegger Canyon	85.0	2,260	*	6,450	9,600	*	14,690
Santa Clara River	Approximately 500 feet upstream of confluence of Arraste	76.3	1,550	*	4,780	7,440	*	11,760

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Santa Clara River	Upstream of confluence of Acton Canyon Creek	49.9	1,370	*	3,480	5,210	*	8,080
Santa Fe Springs Area Shallow Flooding	Vicinity of Rivera Road and Vicki Drive	0.4	80	*	176	225	*	352
Santa Maria Canyon	Approximately 100 feet downstream of Topanga Canyon Boulevard	3.1	1,070	*	2,333	3,016	*	4,719
Savage Creek	At Intersection of York Avenue and Mar Vista Street	0.9	260	*	570	730	*	1,150
Sepulveda Shallow Flooding	Haskell Avenue north of Union Pacific Railroad (former Southern Pacific Railroad)	1.0	230	*	500	640	*	1,000
Sepulveda Shallow Flooding	Roscoe Boulevard at Haskell Avenue	0.8	160	*	360	460	*	720
Shallow Flooding	At intersection of Vincent Street and South Irena Avenue	1	68	*	149	190	*	298
Shallow Flooding	At Gould Avenue between Ford and Goodman Avenues	1	66	*	146	186	*	291
Shallow Flooding	At intersection of Ripley Avenue and Rindge Lane	1	61	*	135	172	*	270
Shallow Flooding	At intersection of Camino Real and South Juanita	10.0	50	*	111	141	*	221
Shallow Flooding	At intersection of Avenue H and Massena Avenue	52	154	*	340	434	*	679

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Sherman Oaks Shallow Flooding	Magnolia Boulevard at Haskell Avenue	1.2	360	*	800	1,000	*	1,600
Silver Lake Shallow Flooding	Myra Avenue, vicinity of Del Mar Avenue	1.8	490	*	1,110	1,400	*	2,200
Silver Lake Shallow Flooding	Silver Lake Boulevard east of Virgil Avenue	1.3	420	*	900	1,100	*	1,800
Silver Lake Shallow Flooding	Between Hyperion Avenue and Griffith Park Boulevard, north of Fountain Avenue	0.9	290	*	650	830	*	1,300
Silver Lake Shallow Flooding	Griffith Park Boulevard at Tracy Street	0.6	220	*	490	620	*	970
Soledad Canyon	At confluence with Aliso Canyon	*	710	*	2,170	3,210	*	7,120
Soledad Canyon	Upstream of confluence of Kentucky Springs Canyon Creek	*	490	*	1,500	2,220	*	4,920
Soledad Canyon	At Angeles Forest Highway	*	250	*	780	1,150	*	2,550
South Fork Santa Clara River	Confluence with Santa Clara River	45.3	2,400	*	7,320	10,840	*	24,040
South Fork Santa Clara River	Upstream of confluence with Newhall Creek	23.4	1,860	*	5,680	8,420	*	18,680
South Fork Santa Clara River	Upstream of confluence with South Fork Santa	14.1	1,190	*	3,650	5,400	*	11,980
South Fork Santa Clara River Tributary	Confluence with South Fork Santa Clara River	1	1,240	*	2,090	2,470	*	3,290

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Spade Spring Canyon Creek	At confluence with Mint Canyon Creek	1	471	*	1,099	1,364	*	1,839
Spade Spring Canyon Creek	At boundary of Angeles National Forest	1	428	*	911	1,118	*	1,491
Stokes Canyon	Cross Section C	2.9	1,089	*	2,403	3,067	*	4,799
Stokes Canyon	Cross Section B	2.4	934	*	2,062	2,631	*	4,117
Surface Runoff	At Intersection of Garfield Avenue and Beverly Boulevard	2.9	820	*	1,810	2,310	*	3,610
Surface Runoff	Laurel Canyon Boulevard at Hollywood Boulevard	1.9	600	*	800	1,160	*	2,100
Surface Runoff	Happy Lane	1.7	640	*	1,400	1,800	*	2,800
Surface Runoff	Vicinity of Rosewood Avenue and Huntley Drive West Los Angeles and Central Districts	1.1	670	*	1,479	1,888	*	3,329
Sylmar	East Side of Golden State Freeway south of Sierra Highway	0.2	50	*	120	150	*	240
Texas Canyon Creek	At confluence with Bouquet Canyon Creek	*	780	1,530	2,380	3,520	*	7,810
Tick Canyon	At confluence with Santa Clara River	*	380	*	1,150	1,710	*	3,790
Tick Canyon	Approximately 1000 feet upstream of Grandifloras Road	*	320	*	970	1,430	*	3,170
Topanga Canyon	Cross Section H	19.6	4,095	*	9,040	11,537	*	18,054

Table 10: Summary of Discharges, continued

			Peak Discharge (cfs)						
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance	
Topanga Canyon	Approximately 750 feet upstream of the Intersection of Walnut Trl and Topanga Canyon Boulevard	15.0	5,404	*	11,930	15,223	*	23,882	
Topanga Canyon	At the confluence of Old Topanga Canyon	14.5	5,208	*	11,499	14,672	*	22,960	
Topanga Canyon	Approximately 1600 feet upstream of Circle Trl	7.3	2,560	*	5,656	7,215	*	11,289	
Topanga Canyon	Approximately 200 feet downstream of Hillside Dr	7.0	2,364	*	5,222	6,601	*	10,422	
Topanga Canyon	At the confluence with Santa Maria Canyon	5.5	1,862	*	4,113	5,247	*	8,210	
Topanga Canyon	Approximately 100 feet upstream of Liberty Ln	0.3	259	*	572	729	*	1,141	
Towsley Canyon Creek	At confluence with South Fork Santa Clara River	*	630	1,230	1,910	2,830	*	6,280	
Trancas Creek	Upstream of Pacific Coast Highway (Cross Section A)	8.6	2,499	*	5,518	7,040	*	11,106	
Triunfo Creek	Approximately 1,200 feet upstream of Crags Drive	39.2	10,167	14,221	17,118	20,021	*	26,901	
Triunfo Creek	Approximately 320 feet downstream of Kanan Road	38.1	9,942	13,861	16,647	19,443	*	26,105	
Triunfo Creek	Approximately 1,340 upstream of Kanan Road	36.8	9,675	13,464	16,163	18,870	*	25,364	
Triunfo Creek	Approximately 4,940 feet upstream of Kanan Road	36.5	9,608	13,366	16,041	18,725	*	25,168	

Table 10: Summary of Discharges, continued

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Triunfo Creek	Approximately 7,520 feet upstream of Kanan Road	30.1	8,135	11,278	13,520	15,781	*	21,252
Triunfo Creek	Approximately 11,000 feet upstream of Kanan Road	29.5	7,995	11,074	13,627	15,480	*	20,846
Triunfo Creek	Approximately 2,300 feet downstream of Westlake Dam	29.0	7,874	10,900	13,052	15,226	*	20,505
Triunfo Creek	At Westlake Dam	28.5	7,766	10,748	12,872	15,011	*	20,227
Turnbull Canyon	At intersection of Painter Avenue and Camilla Street	1.0	250	*	540	690	*	1,080
Turnbull Canyon Shallow Flooding	Vicinity of Broadway and Alta Drive	1.0	250	*	540	690	*	1,080
Unknown	At the Intersection of Chestnut and Lake Streets	1.3	*	*	*	670	*	*
Unknown	At the Intersection of Alameda Avenue and Main Street	1.2	*	*	*	750	*	*
Unknown	3,500 feet Northeast of the Intersection of Via Montana and Country	0.7	*	*	*	600	*	*
Unnamed Canyon	Serra Retreat Area (Cross Section C)	0.4	281	*	619	791	*	1,237
Unnamed Stream Main Reach	At Pacific Ocean	1.2	353	*	724	917	*	1,400

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Unnamed Stream Main Reach	Downstream of confluence with Tributary 2	1.1	338	*	692	876	*	1,282
Unnamed Stream Main Reach	Upstream of confluence with Tributary 2	0.7	229	*	462	580	*	865
Unnamed Stream Main Reach	Upstream of confluence with Tributary 1	0.4	146	*	290	361	*	523
Unnamed Stream Tributary 1	At confluence with Main Reach	0.2	97	*	191	236	*	381
Unnamed Stream Tributary 2	At confluence with Main Reach	0.4	164	*	331	413	*	600
Unnamed Stream Tributary 2	At Via Zurita	0.4	144	*	290	361	*	525
Van Nuys	Victory Boulevard, vicinity of Hayvenhurst Avenue	0.7	90	*	200	250	*	390
Vasquez Canyon	Approximately 1,373 feet upstream of Vasquez Canyon Road	4.2	*	*	*	2,851	*	5,009
Vasquez Canyon	At confluence with Bouquet Canyon Creek	*	310	*	960	1,420	*	3,150
Vasquez Canyon	At Lost Creek Road	*	250	*	760	1,120	*	2,480
Violin Canyon	Approximately 2,000 feet downstream of Interstate Highway 5	10.5	*	*	*	9,421	*	17,818
Weldon Canyon	Approximately 1,570 feet downstream of Sierra Highway and San Fernando Road	1.5	410	*	900	1,150	*	1,800
West Hollywood Shallow Flooding	Third Street, vicinity of Fairfax Avenue	6.1	1,500	*	3,200	4,100	*	6,800
West Hollywood Shallow Flooding	Fifth Street, vicinity of Orlando Avenue	5.7	1,600	*	3,600	4,500	*	7,100

Table 10: Summary of Discharges, continued

					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
West Hollywood Shallow Flooding	Third Street, vicinity of La Cienga Boulevard	5.1	1,600	*	3,500	4,500	*	7,200
West Hollywood Shallow Flooding	Beverly Boulevard, vicinity of Spaulding Avenue	4.0	730	*	1,600	2,100	*	2,900
West Hollywood Shallow Flooding	Genesse Avenue north of Hollywood Boulevard	1.0	370	*	820	1,000	*	1,600
West Hollywood Shallow Flooding	Vicinity of Pan Pacific Auditorium	4.0	730	*	1,600	3,600	*	4,500
West Hollywood Shallow Flooding	Vicinity of Rosemead Avenue and Huntley Drive	1.1	670	*	1,479	1,888	*	3,329
West Los Angeles Shallow Flooding	Between Westwood Boulevard and Overland Avenue, vicinity of Exposition Boulevard	4.0	190	*	1,200	1,500	*	2,700
West Los Angeles Shallow Flooding	Manning Avenue, vicinity of Tennessee Avenue	3.4	530	*	1,300	1,700	*	2,600
West Los Angeles Shallow Flooding	Balsam Avenue, vicinity of Olympic Boulevard	1.2	290	*	550	660	*	940
West Los Angeles Shallow Flooding	Roundtree Road, vicinity of Manning Avenue	0.7	500	*	740	840	*	1,100
Westchester Shallow Flooding	Arizona Avenue north of Arizona Circle	1.7	340	*	740	950	*	1,500
Westchester Shallow Flooding	Sepulveda Boulevard south of San Diego Freeway	1.4	310	*	690	880	*	1,400
Westlake Shallow Flooding	Vicinity of Wilshire Boulevard west of Hoover Street	1.4	360	*	790	1,000	*	1,600
Whitney Canyon Creek	At Sierre Highway	2.1	653	835	972	1,109	*	1,419

Table 10: Summary of Discharges, continued

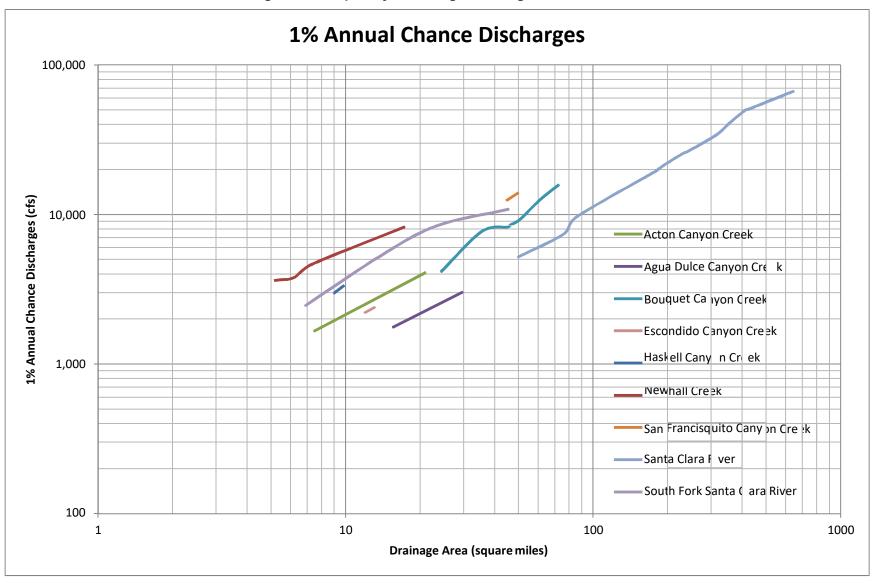
					Peak Disc	harge (cfs)		
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Whitney Canyon Creek	Intersect of Newhall Ave and Antelope Valley Fwy	2.0	646	827	962	1,098	*	1,404
Whitney Canyon Creek	Whitney Canyon Raod	2.0	645	823	957	1,091	*	1,396
Whitney Canyon Creek	0.38 miles east from Antelope Valley Fwy	1.9	630	802	931	1,060	*	1,357
Whitney Canyon Creek	0.53 miles east from Antelope Valley Fwy	1.8	629	800	928	1,055	*	1,346
Whittier Area Shallow Flooding	Vicinity of Turnbull Canyon Road	1.0	246	*	543	692	*	1,084
Whittier Narrows Flood Control Basin	Whittier Narrows Flood Control Basin	524	*	*	*	90,000	*	*
Wildwood Canyon	Approximately 600 feet upstream of intersection of Valley Street and Maple Street	0.2	*	*	*	172	*	279
Winsor Hills Area	Vicinity of La Brea and Slauson Avenues	0.3	67	*	147	188	*	294
Woodland Hills	Vicinity of Mulholland Drive and Ventura Freeway	2.3	490	*	1,100	1,400	*	2,200
Woodland Hills	Vicinity of Saltillo Street and Canoga Avenue	0.3	100	*	250	300	*	500
Zuma Canyon	Cross Section A	8.9	2,024	*	4,469	5,705	*	8,925
Zuma Canyon	Cross Section W	8.4	2,079	*	4,590	5,858	*	9,167

¹ Data not available

² Pump capacity

^{*} Not Calculated for this Flood Risk Project

Figure 7: Frequency Discharge-Drainage Area Curves



**Table 11: Summary of Non-Coastal Stillwater Elevations** 

			Ele	vations (feet NAVD	38)	
Flooding Source	Location	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Los Angeles River	Unknown	7.3	*	7.8	9.9	15.6
Los Cerritos Channel	Unknown	6.9	*	7.5	8.7	12.2
Ponding	600 feet east of Bloomfield Avenue and North of Lakeland Road	139.8	*	142.8	143.8	143.8
Ponding	1,000 feet east of Bloomfield Avenue North of Lakeland Road	116.8	*	148.3	148.8	149.8
Ponding	At Marquart Avenue; 1,400 feet north of Rosecrans Avenue	83.8	*	85.8	86.8	88.8
Savage Creek	Intersection of York Avenue and Mar Vista Street	382.8	*	382.8	382.8	382.8
San Gabriel River	At Whittier Narrows Flood Control Basin	213.8	*	222.8	222.8	231.8
Shallow Flooding	Intersection of Ripley Avenue and Rindge Lane	*	*	62.9	64.9	68.9
Shallow Flooding	At Gould Avenue between Ford and Goodman Avenues	83.4	*	91.4	95.9	105.9

Table 11: Summary of Non-Coastal Stillwater Elevations, continued

			Ele	vations (feet NAVD	38)	
Flooding Source	Location	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Shallow Flooding	Intersection of Vincent Street and South Irena Avenue	81.9	*	82.9	83.6	84.9
Shallow Flooding	Intersection of Camino Real and South Juanita Avenue	120.5	*	121.9	122.9	124.3
Surface Runoff – Deep Ponding Area	Southwest of the intersection of Carson Street and Madrona Avenue	60.1	*	66.1	68.8	74.8
Surface Runoff – Ponding Area	Intersection of Anza Avenue and Spencer Street	82.6	*	83.4	83.8	84.9
Surface Runoff – Ponding Area	Northeast of Sepulveda Boulevard and Madrone Avenue	77.3	*	78.4	78.8	79.5
Surface Runoff – Ponding Area	Intersection of California Street and Alaska Avenue	78.7	*	80.1	80.8	81.6
Surface Runoff – Ponding Area	Intersection of Mines Avenue and Taylor Avenue	186.7	*	188.8	188.8	188.8
Turnbull Canyon	Intersection of Painter Avenue and Camilla Street	411.8	*	419.8	420.8	421.8

Table 11: Summary of Non-Coastal Stillwater Elevations, continued

		Elevations (feet NAVD88)						
Flooding Source	Location	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance		
Westlake Lake	City of Westlake Village	875.5	976.2	876.6	877.1	878.1		

^{*}Not calculated for this Flood Risk Project

Table 12: Stream Gage Information used to Determine Discharges

					Period o	f Record
Flooding Source	Gage Identifier	Agency that Maintains Gage	Site Name	Drainage Area (Square Miles)	From	То
Aliso Creek	F152B-R	Los Angeles County Flood Control District (LACFCD)	At Nordhoff Street	189	*	*
Ballona Creek	F38C-R	LACFCD	Ballona Creek above Sawtelle Boulevard	88.6	02/27/1928	09/18/2014
Big Rock Creek	10263500	USGS	Big Rock Creek near Valyermo, CA	22.9	02/01/1923	09/18/2014
Big Tujunga Creek	11095500	USGS	Big Tujunga Creek near Sunland, CA	106	11/01/1916	09/30/1977
Burbank Western Flood Control Channel	*	LACFCD	At Tujunga Avenue	401	01/01/1950	*
Compton Creek	F37B-R	LACFCD	Compton Creek near Greenleaf Boulevard	22.6	01/22/1928	09/18/2014
Coyote Creek	3208	LACFCD	Centralia Street	110	34 years	*
Dominguez Channel	*	*	*	33	*	*
Little Rock Creek	L1-R	LACFCD	Little Rock Creek above Little Rock Dam	49.2	10/01/1930	09/18/2014
Los Angeles River	F300-R	LACFCD	At Tujunga Avenue	401	05/08/1950	09/18/2014
Los Angeles River	F57-R	LACFCD	Los Angeles River above Arroyo Seco	511	12/05/1929	09/18/2014

Table 12: Stream Gage Information used to Determine Discharges, continued

			used to Deteri		Period o	
Flooding Source	Gage Identifier	Agency that Maintains Gage	Site Name	Drainage Area (Square Miles)	From	То
Los Angeles River Flood Control Channel	*	LACFCD	*	*	*	*
Malibu Creek	F130-R	LACFCD	Malibu Creek below Cold Creek	105	01/17/1931	09/18/2014
San Gabriel River	F262-R	LACFCD	San Gabriel River above Florence Avenue	215.8	08/06/1968	09/18/2014
Sawtelle- Westwood Storm Drain Channel	F301-R	LACFCD	At Culver Boulevard	23	01/01/1951	*
Topanga Creek	F548-R	LACFCD	*	*	*	*
Zuma Creek	F53-R	LACFCD	*	*	*	*

^{*} Data not available

## 5.2 Hydraulic Analyses

Analyses of the hydraulic characteristics of flooding from the sources studied were carried out to provide estimates of the elevations of floods of the selected recurrence intervals. Base flood elevations on the FIRM represent the elevations shown on the Flood Profiles and in the Floodway Data tables in the FIS Report. Rounded whole-foot elevations may be shown on the FIRM in coastal areas, areas of ponding, and other areas with static base flood elevations. These whole-foot elevations may not exactly reflect the elevations derived from the hydraulic analyses. Flood elevations shown on the FIRM are primarily intended for flood insurance rating purposes. For construction and/or floodplain management purposes, users are cautioned to use the flood elevation data presented in this FIS Report in conjunction with the data shown on the FIRM. The hydraulic analyses for this FIS were based on unobstructed flow. The flood elevations shown on the profiles are thus considered valid only if hydraulic structures remain unobstructed, operate properly, and do not fail.

For streams for which hydraulic analyses were based on cross sections, locations of selected cross sections are shown on the Flood Profiles (Exhibit 1). For stream segments for which a floodway was computed (Section 6.3), selected cross sections are also listed on Table 24, "Floodway Data."

A summary of the methods used in hydraulic analyses performed for this project is provided in Table 13. Roughness coefficients are provided in Table 14. Roughness coefficients are values

representing the frictional resistance water experiences when passing overland or through a channel. They are used in the calculations to determine water surface elevations. Greater detail (including assumptions, analysis, and results) is available in the archived project documentation.

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Acton Canyon	Confluence with Santa Clara River	0.6 miles upstream of Alisto Street	HEC-1	HEC-RAS 3.1.3	03/13/2014	AE w/ Floodway	
Agua Amarge Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Agua Dulce Canyon Creek	Confluence with Santa Clara River	Approximately 0.5 miles upstream of Schaefer Rd	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
Agua Dulce Canyon Creek	Approximately 0.5 miles upstream of Schaefer Rd	Approximately 3400 feet upstream of Schaefer Rd	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	А	
Agua Dulce Canyon Creek	Approximately 3400 feet upstream of Schaefer Rd	Approximately 1000 feet upstream of Anthony Rd	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE w/ Floodway	
Agua Dulce Canyon Creek	Approximately 1000 feet upstream of Anthony Rd	Approximately 250 feet upsrteam of Hierba Rd	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Agua Dulce Canyon Creek Lateral	Confluence with Agua Dulce Canyon Creek	Approximately 900 feet upstream of confluence with Agua Dulce Canyon Creek	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	8/01/2008	AE	
Alamitos Bay	_	_	Regional Regression Equations	HEC-2	_	А	
Aliso Canyon Creek	Confluence with Santa Clara River	Approximately 2.1 miles upstream of W Avenue Y8	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
Amargosa Creek	_	_	Log-Pearson Type III Frequency Analysis	HEC-2	11/01/1985	A, AH, AO	
Amargosa Creek	_	_	Log-Pearson Type III Frequency Analysis	HEC-2	11/01/1985	AE	
Amargosa Creek	_	_	Log-Pearson Type III Frequency Analysis	HEC-2	11/01/1985	A, AO	
Amargosa Creek Tributary	_	_	Log-Pearson Type III Frequency Analysis	HEC-2	_	А	
Anaverde Creek	_	_	Log-Pearson Type III Frequency Analysis	HEC-2	11/01/1985	AE w/ Floodway	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Anaverde Creek	_	_	Log-Pearson Type III Frequency Analysis	HEC-2	11/01/1985	А	
Arrastre Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Arroyo Calabasas	_	_	Regional Regression Equations	HEC-2	_	AE	
Arroyo San Miguel	_	_	Regional Regression Equations	HEC-2	08/01/1978	А	
Arroyo Sequit	_	_	Regional Regression Equations	HEC-2	_	А	
Avalon Bay	_	_	Regional Regression Equations	HEC-2	_	AE	
Avalon Canyon	At confluence with Pacific Ocean	0.9 miles upstream of confluence with Pacific Ocean	Regional Regression Equations	HEC-2		AE	
Back Channel	_	_	Regional Regression Equations	HEC-2	_	AE	
Ballona Creek	_	_	Log-Pearson Type III Frequency Analysis	HEC-2	_	AE	
Ballona Creek Watershed	_	_	_	_	_	2016	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Bar Creek	_	_	Regional Regression Equations	HEC-2	_	A, AO	
Bee Canyon	_	_	Regional Regression Equations	HEC-2		А	
Bee Canyon (2)	_	_	Regional Regression Equations	HEC-2	_	А	
Bee Canyon Creek	_	_	Regional Regression Equations	HEC-2		Α	
Big Rock Creek	_	_	Log-Pearson Type III Frequency Analysis	HEC-2	1	А	
Big Rock Creek South Fork	_	_	Regional Regression Equations	HEC-2		Α	
Big Rock Wash	_	_	Regional Regression Equations	HEC-2		А	
Big Rock Wash (Profile Base Line)	City of Palmdale Corporate Limits	City of Palmdale Corporate Limits	Regional Regression Equations	HEC-2	11/01/1985	AE	
Big Tujunga Wash	_	_	Log-Pearson Type III Frequency Analysis	HEC-2	_	A, AO	
Boulder Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Bouquet Canyon Creek	Confluence with Santa Clara River	0.4 miles upstream of Texas Canyon Road	HEC-1	HEC-RAS 4.1	03/13/2014	AE w/ Floodway	
Bouquet Canyon Creek	0.4 miles upstream of Texas Canyon Road	Approximately 900 feet upstream of Sierra Pellona Mtwy	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE w/ Floodway	
Bouquet Reservoir	_	_	Regional Regression Equations	HEC-2	_	А	
Broad Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Browns Creek	_	_	Regional Regression Equations	HEC-2	_	АО	
California Aqueduct	_	_	Regional Regression Equations	HEC-2		А	
Canada De Los Alamos Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Carlos Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Carr Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Castaic Creek	Confluence with Santa Clara River	Approximately 0.6 miles above Tapia Canyon Road	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
Castaic Lagoon	_	_	Regional Regression Equations	HEC-2	_	A	
Castaic Lake	_	_	Regional Regression Equations	HEC-2	_	А	
Channel No. 2	_		Regional Regression Equations	HEC-2		AE	
Channel No. 3	_	_	Regional Regression Equations	HEC-2	_	AE	
Charlie Canyon Creek	_		Regional Regression Equations	HEC-2		А	
Chatsworth Reservoir	_		Regional Regression Equations	HEC-2		А	
Cherry Canyon Creek	_		Regional Regression Equations	HEC-2		А	
Cheseboro Creek	_	_	Regional Regression Equations	HEC-2	_	AE	
Cold Creek	_	_	Regional Regression Equations	HEC-2	_	AE	
Cold Creek	_	_	Regional Regression Equations	HEC-2	_	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Colorado Lagoon	_	-	Regional Regression Equations	HEC-2	l	AE	
Compton Creek	Confluence with Los Angeles River	Approximately 400 feet upstream of Artesia Boulevard	Regional Regression Equations	HEC-2	ı	A	
Consolidated Channel	_	_	Regional Regression Equations	HEC-2	1	AE	
Coyote Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	A, AO	
Coyote Creek	_	_	Log-Pearson Type III Frequency Analysis	HEC-2	_	А	
Cruthers Creek	_	_	Regional Regression Equations	HEC-2	-	А	
Dark Canyon	_	_	Regional Regression Equations	HEC-2	2016	AE	
Dark Canyon West Branch	_	_	Regional Regression Equations	HEC-2	_	А	
Dewitt Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	Α	
Dominguez Channel	_	_	Log-Pearson Type III Frequency Analysis	HEC-2	_	AE	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Dominguez Channel	At the upstream face of Henry Ford Avenue	At the downstream face of Victoria Avenue	Regional Regression Equations	HEC-2	_	А	
Dorr Canyon Creek	_	_	Regional Regression Equations	HEC-2	ı	А	
Dowd Canyon	_	_	Regional Regression Equations	HEC-2	_	A, AO	
Dry Canyon	_	_	Regional Regression Equations	HEC-2	1979	A, AO	Located in Los Angeles County, and in the City of Santa Clara
Dry Canyon	_	_	Regional Regression Equations	HEC-2	1979	AE	Located in Los Angeles County and the City of Calabasas
East Basin	_	_	Regional Regression Equations	HEC-2		AE	
Elizabeth Canyon Creek	_	_	Regional Regression Equations	HEC-2	-	A, AO	
Elizabeth Lake	_	_	Regional Regression Equations	HEC-2	_	Α	
Elizabeth Lake Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	Α	
Eller Slough	_	_	Regional Regression Equations	HEC-2	_	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Elsmere Canyon Creek	Confluence with Newhall Creek	Approximately 1.3 miles upstream of State Route 14	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
Encino Reservoir	_	_	Regional Regression Equations	HEC-2	_	А	
Entrance Channel (Marina Del Ray)	_	_	Regional Regression Equations	HEC-2	_	AE	
Escondido Canyon	Confluence with Acton Canton Creek	1.7 miles upstream of confluence with Acton Canton Creek	HEC-1	HEC-RAS 4.1	03/13/2014	AE w/ Floodway	
Fenner Canyon Creek	_		Regional Regression Equations	HEC-2	_	А	
Fish Harbor	_	_	Regional Regression Equations	HEC-2	_	AE	
Flood Control Channel to Aliso Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Flowline No. 1	_	_	Regional Regression Equations	HEC-2	10/01/1978	AE	
Garapito Creek	_	_	Regional Regression Equations	HEC-2	_	AE	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Gavin Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Gorman Creek	_	_	Regional Regression Equations	HEC-2	_	A, AH, AO	
Gorman Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	A, AO	
Graham Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Grandview Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Grandview Canyon Creek (2)	_	_	Regional Regression Equations	HEC-2	_	А	
Harbor Lake	_	_	Regional Regression Equations	HEC-2	_	AE	
Haskell Canyon	Confluence with Bouquet Canyon Creek	0.4 miles upstream of Copper Hill Drive	HEC-1	HEC-RAS 4.1	03/13/2014	AE w/ Floodway	
Hasley Canyon Creek	Confluence with Castic Creek	0.3 miles upstream of Burlwood Drive	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
Holcomb Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Holmes Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Hughes Lake	_	_	Regional Regression Equations	HEC-2	1	А	
Iron Canyon	Confluence with Sand Canyon Creek	0.8 miles upstream of North Iron Canyon Road	HEC-1	HEC-RAS 4.1	02/01/2010	AE	
Jesus Canyon Creek	_	_	Regional Regression Equations	HEC-2	-	А	
Kagel Canyon	_	_	Regional Regression Equations	HEC-2	_	AE w/ Floodway	
Kagel Canyon	_	_	Regional Regression Equations	HEC-2	_	AE	
Kentucky Springs Canyon Creek	Confluence with Soledad Canyon	Approximatley 600 feet upstream of Ghost Mine Road	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
Lake Lindero	_		Regional Regression Equations	HEC-2	_	А	
La Mirada Creek	_	_	Regional Regression Equations	HEC-2	_	AE	
Lake Palmdale		_	Regional Regression Equations	HEC-2	_	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Lake Street Overflow	_	_	Regional Regression Equations	HEC-2	_	AE	
Las Flores Canyon	_	_	Regional Regression Equations	HEC-2	_	AE	
Las Flores Canyon	_	_	Regional Regression Equations	HEC-2	_	А	
Las Virgenes Creek	At confluence with Malibu Creek	Immediately downstream of Las Virgenes Road	HEC-HMS 3.5	HEC-RAS 4.1	08/01/2010	AE	
Leaming Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Lemontaine Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Liberty Canyon	_	_	Regional Regression Equations	HEC-2	_	AE	
Limekiln Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Lindero Canyon	_	_	Regional Regression Equations	HEC-2	_	AE	
Lindero Canyon	_	_	Regional Regression Equations	HEC-2	_	AE	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Lion Canyon	At confluence with Santa Clara River	0.9 miles upstream of Seasoned Road	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
Little Rock Creek	_	_	Log-Pearson Type III Frequency Analysis	HEC-2		А	
Little Rock Reservoir	_	_	Regional Regression Equations	HEC-2	_	А	
Little Rock Wash	_	_	Regional Regression Equations	HEC-2	_	А	
Little Rock Wash	_	_	Regional Regression Equations	HEC-2	1	А	
Little Rock Wash - Profile A	City of Palmdale Corporate Limits	City of Palmdale Corporate Limits	Regional Regression Equations	HEC-2	11/01/1985	AE	
Little Rock Wash - Profile A	City of Palmdale Corporate Limits	City of Palmdale Corporate Limits	Regional Regression Equations	HEC-2	11/01/1985	AE	
Little Rock Wash - Profile A	_	_	Regional Regression Equations	HEC-2	1	А	
Little Rock Wash - Profile A	_	_	Regional Regression Equations	HEC-2	11/01/1985	AE	
Little Rock Wash - Profile A	_	_	Regional Regression Equations	HEC-2	11/01/1985	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Little Rock Wash - Profile B	City of Palmdale Corporate Limits	City of Palmdale Corporate Limits	Regional Regression Equations	HEC-2	11/01/1985	AE	
Little Rock Wash - Profile C	_	_	Regional Regression Equations	HEC-2	11/01/1985	AE	
Little Tujunga Wash	_	_	Regional Regression Equations	HEC-2	_	A, AO	
Lobo Canyon	_	_	Regional Regression Equations	HEC-2	_	AE	
Lockheed Drain Channel	_	_	Regional Regression Equations	HEC-2	_	AE, AO	
Lockheed Storm Drain	_	_	Regional Regression Equations	HEC-2		AE	
Long Canyon	At confluence with Santa Clara River	2.4 miles upstream of Confluence with Santa Clara River	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
Lopez Canyon Channel	_	_	Regional Regression Equations	HEC-2		Α	
Lopez Canyon Channel	_	_	Regional Regression Equations	HEC-2	_	AE	
Los Angeles County Flood Control Channel	_	_	Regional Regression Equations	HEC-2	_	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Los Angeles County Flood Control Channel to Aliso Creek	_	_	Regional Regression Equations	HEC-2		А	
Los Angeles County Storm Drain	_	_	Regional Regression Equations	HEC-2	_	А	
Los Angeles Harbor	_	_	Regional Regression Equations	HEC-2	_	AE	
Los Angeles Reservoir	_	_	Regional Regression Equations	HEC-2	_	А	
Los Angeles River	_	_	Regional Regression Equations	HEC-2	05/01/1991	А	
Los Angeles River Flood Control Channel	_	_	Regional Regression Equations	HEC-2	_	А	
Los Angeles River Flood Control Channel	_	_	Regional Regression Equations	HEC-2	_	А	
Los Cerritos Channel	_	_	Regional Regression Equations	HEC-2	_	AE	
Lyon Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	Α	
Main Channel	_	_	Regional Regression Equations	HEC-2	_	AE	
Malaga Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Malibu Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Malibu Creek	_	_	Log-Pearson Type III Frequency Analysis	HEC-2	-	AE	
Malibu Lake	_	_	Regional Regression Equations	HEC-2		А	
Marina Del Ray	_	_	Regional Regression Equations	HEC-2		AE	
Marine Stadium	_	_	Regional Regression Equations	HEC-2		AE	
Medea Creek	_	_	Regional Regression Equations	HEC-2		AE	
Middle Harbor	_	_	Regional Regression Equations	HEC-2		AE	
Mill Creek	_	_	Regional Regression Equations	HEC-2	_	AE	
Milton B. Arthur Lakes	_	_	Regional Regression Equations	HEC-2	_	А	
Mint Canyon Creek	Confluence with Santa Clara River Trail	Immediately downstream of Adon Avenue	HEC-1	HEC-RAS 4.1	02/01/2010	AE	
Mint Canyon Creek	Immediately downstream of Adon Avenue	0.9 miles upstream of Rocking Horse Road	HEC-1	HEC-RAS 4.1	02/01/2010	AE w/ Floodway	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Mint Canyon Creek Overflow	Confluence with Santa Clara River Trail	Immediately downstream of Adon Avenue	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE,AO	
Mint Canyon Spring	_	_	Regional Regression Equations	HEC-2	_	Α	
Montebello Municipal Golf Course Pond	_	_	Regional Regression Equations	HEC-2	_	А	
Muscal Creek	_	_	Regional Regression Equations	HEC-2	1	А	
Myrick Canyon Creek	_	_	Regional Regression Equations	HEC-2		А	
Newhall Creek	Confluence with South Fork Santa Clara River	Approximately 0.3 miles upstream of Molokai Road	HEC-1	HEC-RAS 4.1	3/13/2014	AE w/ Floodway	
Newhall Creek Left Overbank 2	Confluence with Newhall Creek	Immediately below 5th Street	HEC-1	HEC-RAS 4.1	7/21/2015	AE w/ Floodway	
Newhall Creek Left Overbank 3	Confluence with Newhall Creek Left Overbank 2	Immediately below 12th Street	HEC-1	HEC-RAS 4.1	7/21/2015	AE	
Newhall Creek Right Overbank 1	Confluence with Newhall Creek	Approximately 175 feet upstream of Molokai Road	HEC-1	HEC-RAS 4.1	7/21/2015	AE w/ Floodway	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Oak Springs Canyon	Confluence with Santa Clara River	Approximately 0.3 miles upstream of Oak Spring Canyon Road	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE, AO	
Oak Springs Canyon Overflow	Confluence with Oak Springs Canyon Creek	Divergence from Oak Springs Canyon	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
Oakgrove Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Old Topanga Canyon	_	_	Regional Regression Equations	HEC-2	2016	А	
Old Topanga Canyon	_	_	Regional Regression Equations	HEC-2	_	AE	
Oro Fino Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Oso Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Pacific Terrace Harbor	_	_	Regional Regression Equations	HEC-2		AE	
Pacoima Channel	_	_	Regional Regression Equations	HEC-2	_	А	
Pacoima Wash	_	_	Regional Regression Equations	HEC-2	_	A, AO	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Pallett Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Palmdale Ditch	_	_	Regional Regression Equations	HEC-2	_	А	
Palo Comando Creek	_	_	Regional Regression Equations	HEC-2	_	AE	
Palomas Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Pico Canyon	Confluence with South Fork Santa Clara River Tributary	Approximately 800 feet upstream of Stevenson Ranch Parkway	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
Pine Canyon Creek	_	_	Regional Regression Equations	HEC-2	11/1/1985	А	
Piru Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Placerita Creek	Confluence with Newhall Creek	Approximately 1400 feet upstream of Placerita Canyon Road	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE w/ Floodway	
Placerita Creek Overflow	Confluence with Newhall Creek	Approximately 1.6 miles upstream of confluence with Newhall Creek	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Plum Canyon Creek	Confluence with Bouquet Canyon Creek	Approximately 0.3 miles upstream of Rodgers Drive	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
Plum Canyon Creek	Just downstream of Plum Canyon Road	Approximately 1.1 miles upstream of Plum Canyon Road	N/A	HEC-RAS 3.1.3	06/13/2019	А	Revised hydraulics from LOMR 18-09-1767P were incorporated for this reach.
Portal Ridge Wash	_	_	Regional Regression Equations	HEC-2	_	АН	
Potrero Canyon	Confluence with Santa Clara River	Approximately 3.7 miles upstream of Potrero Canyon Road	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
Potrero Canyon Overflow	Confluence with Potrero Canyon	0.5 miles upstream of confluence with Potrero Canyon	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
Potrero Valley Creek (Westlake Lake)	_	_	Regional Regression Equations	HEC-2	_	А	
Puzzle Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	Α	
Pyramid Lake	_	_	Regional Regression Equations	HEC-2	_	А	
Quail Lake	_	_	Regional Regression Equations	HEC-2	_	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Quigley Canyon Creek	Confluence with Placertia Creek	1.3 miles upstream of Meadview Avenue	Regional Regression Equations	HEC-RAS 4.1	7/21/2015	AE w/ Floodway	
Railroad Canyon	Confluence with Newhall Creek	0.4 miles upstream of confluence with Newhall Creek	HEC-1	HEC-RAS 4.1	03/13/2014	AE w/ Floodway	
Railroad Canyon	0.4 miles upstream of confluence with Newhall Creek	1.3 miles upstream of confluence with Newhall Creek	HEC-1	HEC-RAS 4.1	03/13/2014	А	
Railroad Canyon Creek Left Overbank	Confluence with Newhall Creek	0.5 miles upstream of confluence with Newhall Creek	HEC-1	HEC-RAS 4.1	03/13/2014	AE w/ Floodway	
Ramirez Canyon	_	_	Regional Regression Equations	HEC-2	_	AE	
Reservoir near UCLA	_	_	Regional Regression Equations	HEC-2	_	А	
Rice Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	Α	
Rio Hondo Channel	_	_	Regional Regression Equations	HEC-2	05/01/1991	А	
Rio Hondo Channel Tributary	_	_	Regional Regression Equations	HEC-2	05/01/1991	AE	
Roberts Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Rock Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Romero Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Rustic Canyon	_	_	Regional Regression Equations	HEC-2	_	А	
Rustic Canyon	_		Regional Regression Equations	HEC-2	_	AE w/ Floodway	
Rustic Canyon	_		Regional Regression Equations	HEC-2	_	А	
Salt Canyon Creek	_		Regional Regression Equations	HEC-2	_	Α	
San Dimas Wash	_		Regional Regression Equations	HEC-2	_	AE	
San Francisquito Canyon Creek	Confluence with Santa Clara River	Approximately 1200 feet downstream of North Quail Trail	HEC-1	HEC-RAS 4.1	03/13/2014	AE w/ Floodway	
San Francisquito Canyon Creek	Approximately 1200 feet downstream of North Quail Trail	Approximately 400 feet upstream of San Francisquito Canyon Road	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
San Gabriel River	_	_	Log-Pearson Type III Frequency Analysis	HEC-2	_	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
San Martinez Chiquito Canyon	Confluence with Santa Clara River	Approximately 2000 feet upstream of San Martinez Road	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
San Martinez Grande Canyon Creek	Confluence with Santa Clara River	1.8 miles above State Route 126	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
San Pedro Bay	_		Regional Regression Equations	HEC-2	_	AE	
Sand Canyon Creek	Confluence with Santa Clara River	0.4 miles upstream of Coyote Canyon Creek	HEC-1	HEC-RAS 4.1	02/01/2010	AE	
Santa Clara River	At Los Angeles— Ventura County Boundary	Approximately 1.4 miles upstream of Lang Station Road	HEC-1	HEC-RAS 4.1	7/21/2015	AE w/ Floodway	
Santa Clara River	Approximately 12 miles upstream of Lang Station Road	Confluence of Aliso Canyon Creek	HEC-1	HEC-RAS 4.1	03/13/2014	AE w/ Floodway	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Santa Clara River Overflow	Confluence with Santa Clara River	Approximately 1700 feet upstream of the confluence of Santa Clara River	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
Santa Maria Canyon	_	_	Regional Regression Equations	HEC-2	_	AE	
Santa Maria Canyon	_	_	Regional Regression Equations	HEC-2		А	
Santa Susana Pass Wash	_	_	Regional Regression Equations	HEC-2	_	А	
Santa Ynez Canyon Reservoir	_	_	Regional Regression Equations	HEC-2	_	А	
Savage Creek	_	_	Regional Regression Equations	HEC-2	08/01/1978	AE	
Sierra Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Sloan Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Soledad Canyon	Confluence with Santa Clara River	Approximately 1.0 mile upstream of East Soledad Pass Road	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
South Fork Santa Clara River	Confluence with Santa Clara River	approximately 1,600 feet upstream of Lyons Avenue	HEC-1	HEC-RAS 4.1	03/13/2014	AE w/ Floodway	
South Fork Santa Clara River Tributary	Confluence with South Fork Santa Clara River	Approximately 200 feet above Tournament Road	HEC-1	HEC-RAS 4.1	03/13/2014	AE w/ Floodway	
South Portal Canyon Creek	_	1	Regional Regression Equations	HEC-2	_	Α	
Spade Spring Canyon Creek	Confluence with Mint Canyon Creek	2.8 miles upstream of confluence with Mint Canyon Creek	HEC-1	HEC-RAS 4.1	02/01/2010	AE w/ Floodway	
Stokes Canyon	_	_	Regional Regression Equations	HEC-2		А	
Stokes Canyon	_	_	Regional Regression Equations	HEC-2	_	AE	
Sullivan Canyon	_	_	Regional Regression Equations	HEC-2	_	А	
Sunshine Canyon	_	_	Regional Regression Equations	HEC-2	_	А	
Tacobi Creek	_		Regional Regression Equations	HEC-2	08/01/1978	А	
Tapia Canyon	_	_	Regional Regression Equations	HEC-2	_	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Texas Canyon Creek	Confluence with Bouquet Canyon Creek	0.9 miles above confluence with Bouquet Canyon Creek	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
Tick Canyon	Confluence with Santa Clara River	0.2 miles above Tick Canyon Road	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
Tonner Canyon Creek	_	_	Regional Regression Equations	HEC-2	ı	А	
Topanga Canyon	_	_	*	*	2016	AE	
Topanga Canyon Creek	_	_	*	*	7/21/2015	А	
Towsley Canyon Creek	Approximately 400 feet upstream of confluence of Gavin Canyon Creek	Approximately 1100 feet upstream of The Old Road	Regional Regression Equations	HEC-RAS 4.1	2015	AE	
Trancas Creek	_	_	Regional Regression Equations	HEC-2	_	AE	
Tributary to Unnamed Canyon	1,200 feet	Approximately 1,650 feet upstream of Access Road	Regional Regression Equations	HEC-RAS 4.1.0	10/5/2017	Α	Revised hydraulic and hydrologic analyses were incorporated from LOMR 20- 09-0137P
Triunfo Creek	_	_	Regional Regression Equations	HEC-2	_	Α	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Triunfo Creek	Approximately 200 feet downstream of Crags Drive	At Westlake Dam	HEC-HMS 4.0	HEC-RAS 4.0	09/25/2015	AE	
Turnbull Canyon	_	_	Regional Regression Equations	HEC-2	08/01/1978	AE, AO	
Unnamed Canyon (Serra Retreat Area)	_	_	Regional Regression Equations	HEC-2		AE	
Unnamed Stream Main Reach	Approx 340 feet upstream of Pacific Ocean	Approx 230 feet upstream of Via Coronel	1993 Regional Regression Equations	HEC-RAS 3.1.3	02/01/2012	AE w/ Floodway	
Unnamed Stream Tributary 1	Confluence with Unnamed Stream Main Reach	Approx 140 feet upstream of Via Landeta	1993 Regional Regression Equations	HEC-RAS 3.1.3	02/01/2012	AE w/ Floodway	
Unnamed Stream Tributary 2	Confluence with Unnamed Stream Main Reach	Approx 180 feet upstream of Via Zurita	1993 Regional Regression Equations	HEC-RAS 3.1.3	02/01/2012	AE w/ Floodway	
Upper Los Angeles River Left Overbank	_	_	Regional Regression Equations	HEC-2	ı	AE	
Vasquez Canyon	Confluence with Bouquet Canyon Creek	Approximately 2 miles upstream of confluence with Bouquet Canyon Creek	US EPA Hydrologic Simulation Program – FORTRAN (HSPF)	HEC-RAS 4.1	7/21/2015	AE	
Villa Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
Vine Creek	_	_	Regional Regression Equations	HEC-2	_	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Violin Canyon Creek	Confluence with Castaic Creek	At I-5 (Golden State Freeway)	Regional Regression Equations	HEC-2	_	AE, AO	
Violin Canyon Creek	_	_	Regional Regression Equations	HEC-2	ı	А	
Wayside Canyon Creek	_	_	Regional Regression Equations	HEC-2	ı	А	
Weldon Canyon	_		Regional Regression Equations	HEC-2	_	AE w/ Floodway	
West Basin	_	_	Regional Regression Equations	HEC-2	_	AE	
West Channel	_	_	Regional Regression Equations	HEC-2		AE	
Westlake Reservoir	_		Regional Regression Equations	HEC-2		А	
Whitney Canyon Creek	Confluence with Newhall Creek	1 mile upstream of confluence with Newhall Creek	HEC-HMS 3.5	HEC-RAS 4.1	7/21/2015	AE	
Wildwood Canyon Creek	_	_	Regional Regression Equations	HEC-2	1984	A, AO	
Wiley Canyon Creek	_	_	Regional Regression Equations	HEC-2	1984	А	
Willow Springs Canyon Creek	_	_	Regional Regression Equations	HEC-2		А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
Young Canyon Creek	_	_	Regional Regression Equations	HEC-2		Α	
Zuma Canyon	_	_	Regional Regression Equations	HEC-2	_	Α	
Zuma Canyon	_	_	Log-Pearson Type III Frequency Analysis	HEC-2	_	AE	
UNKNOWN 1 near W. 3rd Street	_	_	Regional Regression Equations	HEC-2	12/01/1980, 11/01/1985	AO	
UNKNOWN 2 near W. 3rd Street	_	_	Regional Regression Equations	HEC-2		Α	
UNKNOWN 3 near W. 3rd Street	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 near 4th Street	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 near Aberdeen Avenue	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 near Alameda Street	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 2 near Alameda Street	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 near Alaska Avenue	_	_	Regional Regression Equations	HEC-2	08/01/1978	АН	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
UNKNOWN 1 near Amsler Street	_	_	Regional Regression Equations	HEC-2	08/01/1978	АН	
UNKNOWN 1 to Anaverde Creek	_	_	Regional Regression Equations	HEC-2	11/01/1985	А	
UNKNOWN 1 near Anza Avenue	_	_	Regional Regression Equations	HEC-2	08/01/1978	АН	
UNKNOWN 1 to Arroyo Calabasas	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 2 to Arroyo Calabasas	_	_	Regional Regression Equations	HEC-2	_	Α	
UNKNOWN 1 near Baile Avenue	_	_	Regional Regression Equations	HEC-2	_	AE	
UNKNOWN 2 near Baile Avenue	_	_	Regional Regression Equations	HEC-2	_	AE	
UNKNOWN 1 near S. Beverley Glen Boulevard	_	_	Regional Regression Equations	HEC-2	_	АН	
UNKNOWN 1 to Big Rock Wash	_	_	Regional Regression Equations	HEC-2	_	A, AO	
UNKNOWN 1-A to Big Rock Wash	_	_	Regional Regression Equations	HEC-2	_	A, AO	
UNKNOWN 2 to Big Rock Wash	_	_	Regional Regression Equations	HEC-2	_	A, AO	
UNKNOWN 1 near Blinn Avenue	_	_	Regional Regression Equations	HEC-2	_	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
UNKNOWN 1 to Broad Canyon Creek	_	_	Regional Regression Equations	HEC-2		A	
UNKNOWN 2 to Broad Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	Α	
UNKNOWN 3 to Broad Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 to California Aqueduct	_	_	Regional Regression Equations	HEC-2	_	Α	
UNKNOWN 2 to California Aqueduct	_	_	Regional Regression Equations	HEC-2	_	Α	
UNKNOWN 3 to California Aqueduct	_	_	Regional Regression Equations	HEC-2	_	Α	
UNKNOWN 4 to California Aqueduct	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 5 to California Aqueduct	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 near Camino Real Calle	_	_	Regional Regression Equations	HEC-2	06/01/1981	AE	
UNKNOWN 1 near Chaparal Street	_	_	Regional Regression Equations	HEC-2	_	АН	
UNKNOWN 1 near Childs Court	_	_	Regional Regression Equations	HEC-2	_	АО	
UNKNOWN 1 near Club View Drive	_	_	Regional Regression Equations	HEC-2	_	АН	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
UNKNOWN 1 near Denker Avenue	_	_	Regional Regression Equations	HEC-2	_	АН	
UNKNOWN 1 near Edwards AF Base	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 2 near Edwards AF Base	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 2-A near Edwards AF Base	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 near Eubank Avenue	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 near Glade Avenue	_	_	Regional Regression Equations	HEC-2		AE	
UNKNOWN 2 near Glade Avenue	_	_	Regional Regression Equations	HEC-2		АН	
UNKNOWN 1 to Glenoaks Boulevard	_	_	Regional Regression Equations	HEC-2		А	
UNKNOWN 2 to Glenoaks Boulevard	_	_	Regional Regression Equations	HEC-2		А	
UNKNOWN 3 to Glenoaks Boulevard	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 near Gould Avenue	_	_	Regional Regression Equations	HEC-2	06/01/1981	AE	
UNKNOWN 1 near Grenola Street	_	_	Regional Regression Equations	HEC-2	_	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
UNKNOWN 1 near N. Hoover Street	_	_	Regional Regression Equations	HEC-2	_	АН	
UNKNOWN 1 near S. La Cienega Boulevard	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 near Lake Palmdale	_	_	Regional Regression Equations	HEC-2	11/01/1985	А	
UNKNOWN 1 near Laurel Canyon Boulevard	_	_	Regional Regression Equations	HEC-2	_	АО	
UNKNOWN 1 to Little Rock Wash	_	_	Regional Regression Equations	HEC-2	_	A, AO	
UNKNOWN 2 to Little Rock Wash	_	_	Regional Regression Equations	HEC-2		А	
UNKNOWN 3 to Little Rock Wash	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 near Long Beach Freeway	_	_	Regional Regression Equations	HEC-2		АН	
UNKNOWN 1 near Louise Avenue	_	_	Regional Regression Equations	HEC-2		АН	
UNKNOWN 1 near Lucerne Boulevard	_	_	Regional Regression Equations	HEC-2	_	АН	
UNKNOWN 1 near S. Main Street	_	_	Regional Regression Equations	HEC-2	_	АО	
UNKNOWN 1 near Magnolia Avenue	_	_	Regional Regression Equations	HEC-2	_	АН	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
UNKNOWN 1 to Malaga Canyon Creek	_	_	Regional Regression Equations	HEC-2	—	A	opediar considerations
UNKNOWN 2 to Malaga Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 2-A to Malaga Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 near Marathon Street	_	_	Regional Regression Equations	HEC-2	_	АН	
UNKNOWN 1 near Melrose Avenue	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 near Mines Avenue	_	_	Regional Regression Equations	HEC-2		AE	
UNKNOWN 1 to Myrick Canyon Creek	_	_	Regional Regression Equations	HEC-2	-	А	
UNKNOWN 1 near Overland Avenue	_	_	Regional Regression Equations	HEC-2	-	AO	
UNKNOWN 2 near Overland Avenue	_	_	Regional Regression Equations	HEC-2	_	АН	
UNKNOWN 1 near W. Olympic Boulevard	_	_	Regional Regression Equations	HEC-2	_	АН	
UNKNOWN 1 to Pallett Creek	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1-A to Pallett Creek	_	_	Regional Regression Equations	HEC-2	_	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
UNKNOWN 1-A-1 to Pallett Creek	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1-A-2 to Pallett Creek	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1-B to Pallett Creek	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1-B-1 to Pallett Creek	_	_	Regional Regression Equations	HEC-2	ı	А	
UNKNOWN 1-C to Pallett Creek	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 to Paso Robles Avenue	_	_	Regional Regression Equations	HEC-2	_	AE	
UNKNOWN 1 near Pershing Drive	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 to Portal Ridge Wash	_	_	Regional Regression Equations	HEC-2	ı	А	
UNKNOWN 1-A to Portal Ridge Wash	_	_	Regional Regression Equations	HEC-2		А	
UNKNOWN 1-B to Portal Ridge Wash	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1-C to Portal Ridge Wash	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 near Rexbon Road	_	_	Regional Regression Equations	HEC-2	_	AE	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
UNKNOWN 1 near Ripley Avenue	_	_	Regional Regression Equations	HEC-2	06/01/1981	AE	
UNKNOWN 1 near Roscoe Boulevard	_	_	Regional Regression Equations	HEC-2	_	АН	
UNKNOWN 1 near San Diego Freeway	_	_	Regional Regression Equations	HEC-2	_	АН	
UNKNOWN 1 to San Fernando Road	_	_	Regional Regression Equations	HEC-2		А	
UNKNOWN 2 to San Fernando Road	_	_	Regional Regression Equations	HEC-2		А	
UNKNOWN 1 to San Gabriel River	_	_	Regional Regression Equations	HEC-2		А	
UNKNOWN 1 to Santa Susana Creek	_	_	Regional Regression Equations	HEC-2		A, AO	
UNKNOWN 1-A to Santa Susana Creek	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 2 to Santa Susana Creek	_	_	Regional Regression Equations	HEC-2		А	
UNKNOWN 1 near Sesnon Boulevard	_	_	Regional Regression Equations	HEC-2	_	AE	
UNKNOWN 1 near Sheldon Street	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 near W. Slausson Avenue	_	_	Regional Regression Equations	HEC-2	_	АН	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
UNKNOWN 2 near W. Slausson Avenue	_	_	Regional Regression Equations	HEC-2	_	АН	
UNKNOWN 1 near State Highway 110	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 near W. Sunset Boulevard	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 near Sunset Canyon Drive	_	_	Regional Regression Equations	HEC-2	_	AO	
UNKNOWN 1 near Susanna Place	_	_	Regional Regression Equations	HEC-2	_	АН	
UNKNOWN 1 near W. Temple Street	_	_	Regional Regression Equations	HEC-2	_	АН	
UNKNOWN 1 near Toledo Street	_	_	Regional Regression Equations	HEC-2	08/01/1978	AE	
UNKNOWN 2 near Toledo Street	_	_	Regional Regression Equations	HEC-2	08/01/1978	АН	
UNKNOWN 1 near UCLA	_	_	Regional Regression Equations	HEC-2	_	АН	
UNKNOWN 1 near Vail Avenue	_	_	Regional Regression Equations	HEC-2	_	Α	
UNKNOWN 1 near S. Van Ness Avenue	_	_	Regional Regression Equations	HEC-2	_	A, AH, AO	
UNKNOWN 1 near Via Valmonte	_	_	Regional Regression Equations	HEC-2	08/01/1978	Α	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
UNKNOWN 1 near Victory Boulevard	_	_	Regional Regression Equations	HEC-2	_	АН	
UNKNOWN 1 near Vincent Street	_	_	Regional Regression Equations	HEC-2	06/01/1981	AE	
UNKNOWN 2 near Vincent Street	_	_	Regional Regression Equations	HEC-2	06/01/1981	AE	
UNKNOWN 1 to Vine Creek	_	_	Regional Regression Equations	HEC-2	ı	А	
UNKNOWN 2 to Vine Creek	_	_	Regional Regression Equations	HEC-2		A	
UNKNOWN 1 near Walker Avenue	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 to Weldon Canyon Creek	-	_	Regional Regression Equations	HEC-2		AE	
UNKNOWN 1-A to Weldon Canyon Creek	_	_	Regional Regression Equations	HEC-2	_	AE	
UNKNOWN WEST of Edwards AF Base	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN WEST of Edwards AF Base	_	_	Regional Regression Equations	HEC-2	_	А	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
UNKNOWN WEST of Edwards AF Base	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 to UNKNOWN WEST	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1-A to UNKNOWN WEST	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 2 to UNKNOWN WEST	_	_	Regional Regression Equations	HEC-2	1	А	
UNKNOWN 2-A to UNKNOWN WEST	_	_	Regional Regression Equations	HEC-2	ı	А	
UNKNOWN 3 to UNKNOWN WEST	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 3-A to UNKNOWN WEST	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 4 to UNKNOWN WEST	_	_	Regional Regression Equations	HEC-2		А	
UNKNOWN 5 to UNKNOWN WEST	_	_	Regional Regression Equations	HEC-2		А	
UNKNOWN 6 to UNKNOWN WEST	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 near Wilshire Boulevard	_	_	Regional Regression Equations	HEC-2	_	AH, AO	
UNKNOWN 2 near Wilshire Boulevard	_	_	Regional Regression Equations	HEC-2	_	АН	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Complete	Flood Zone on	Special Considerations
UNKNOWN 3 near Wilshire Boulevard	_	_	Regional Regression Equations	HEC-2	_	А	
UNKNOWN 1 near Woodman Place	_	_	Regional Regression Equations	HEC-2	_	А	

**Table 14: Roughness Coefficients** 

Flooding Source	Channel "n"	Overbank "n"
Acton Canyon	0.030-0.039	0.032-0.075
Agua Dulce Canyon Creek	0.042-0.045	0.045-0.100
Agua Dulce Canyon Creek Lateral	0.042	0.045
Aliso Canyon Creek	0.040	0.065
Amargosa Creek	0.040	0.040
Anaverde Creek	0.040	0.040
Avalon Canyon	0.030-0.050	0.030-0.050
Ballona Creek	NA ¹	0.012-0.110
Big Rock Wash	0.050	0.050
Bouquet Canyon Creek	0.015-0.048	0.045-0.080
Castaic Creek	0.046-0.050	0.045-0.070
Cheseboro Creek	0.030	0.050
Cold Creek	0.030	0.050
Compton Creek	0.020-0.060	0.020-0.060
Dark Canyon	0.030	0.050
Dominguez Channel	0.025	0.020-0.060
Dry Canyon	0.030	0.050-0.060
Elsmere Canyon Creek	0.015-0.045	0.070
Escondido Canyon	0.039	0.040-0.100
Flow along Empire Avenue	0.014-0.050	0.014-0.050
Flowline No. 1	0.030	0.030
Garapito Creek	0.030	0.050
Hacienda Creek	0.030	0.060
Haskell Canyon	0.020-0.042	0.031-0.050
Hasley Canyon Creek	0.020-0.040	0.050-0.100
Hasley Canyon Creek Split	0.040	0.050

Table 14: Roughness Coefficients, continued

Flooding Source	Channel "n"	Overbank "n"
Iron Canyon	0.040	0.050-0.130
Kagel Canyon	0.035-0.065	0.035-0.065
Kentucky Springs Canyon Creek	0.020-0.040	0.060
La Mirada Creek	0.025-0.030	0.025-0.030
Lake Street Overflow	0.014-0.050	0.014-0.050
Las Flores Canyon	0.030	0.050
Las Virgenes Creek	0.012-0.040	0.050-0.130
Liberty Canyon	0.030	0.050
Lindero Canyon above Confluence with Medea Creek Lindero Canyon above Lake	0.030	0.050
Lindero	0.030	0.050
Lion Canyon	0.044	0.050-0.055
Little Rock Wash-Profile A	0.030	0.050
Little Rock Wash-Profile B	0.030	0.050
Little Rock Wash-Profile C	0.030	0.050
Lobo Canyon	0.030	0.050
Lockheed Drain Channel	0.014-0.050	0.014-0.050
Long Canyon	0.035-0.050	0.044-0.050
Lopez Canyon Channel	0.030	0.060
Los Angeles River Left Overbank Path 2	0.016	0.050-0.150
Los Angeles River Right Overbank Path 1	0.016	0.050-0.150
Los Angeles River Right Overbank Path 2	0.016	0.050-0.150
Malibu Creek	0.030	0.050
Medea Creek	0.030	0.050
Medea Creek (Above Ventura Freeway)	0.030	0.050
Mill Creek	0.030	0.060
Mint Canyon Creek	0.015-0.050	0.050-0.130
Mint Canyon Creek Overflow	0.015-0.100	0.080-0.100
Newhall Creek	0.015-0.052	0.045-0.100
Newhall Creek Left Overbank 2	0.032	0.180
Newhall Creek Left Overbank 3	0.032	0.100-0.120
Newhall Creek Right Overbank 1	0.032	0.100-0.120

Table 14: Roughness Coefficients, continued

Flooding Source	Channel "n"	Overbank "n"
North Overflow	0.014-0.050	0.014-0.050
Oak Springs Canyon	0.040	0.040-0.070
Oak Springs Canyon Overflow	0.070	0.070
Old Topanga Canyon	0.030	0.050
Overflow Area of Lockheed Drain Channel	0.030-0.040	0.030-0.040
Overflow Area of Lockheed Storm Drain	0.014-0.050	0.014-0.050
Palo Comando Creek	0.030	0.050
Pico Canyon	0.015-0.040	0.040-0.130
Placerita Creek	0.020-0.040	0.040-0.130
Placerita Creek Overflow	0.130	0.050-0.130
Plum Canyon	0.015	0.016-0.030
Potrero Canyon	0.040-0.060	0.040-0.060
Potrero Canyon Overflow	0.060	0.060
Quigley Canyon Creek	0.035-0.060	0.048-0.063
Railroad Canyon	0.035-0.045	0.100
Railroad Canyon Left Overbank	0.028-0.032	0.100
Ramirez Canyon	0.030	0.050
Rio Hondo Left Overbank Path 3	0.050-0.150	0.050-0.150
Rio Hondo Left Overbank Path 5	0.050-0.150	0.050-0.150
Rio Hondo Left Overbank Path 6	0.050-0.150	0.050-0.150
Rustic Canyon	0.035-0.065	0.030-0.065
San Francisquito Canyon Creek	0.038	0.042
San Martinez Chiquito Canyon	0.016-0.040	0.050-0.100
San Martinez Grande Canyon Creek	0.040-0.070	0.040-0.070
Sand Canyon Creek	0.020-0.130	0.050-0.130
Santa Clara River	0.032-0.040	0.010-0.100
Santa Clara River Overflow	0.032	0.036
Santa Maria Canyon	0.030	0.050
Soledad Canyon	0.015-0.040	0.050-0.070
South Fork Santa Clara River	0.020-0.050	0.05-0.100
South Fork Santa Clara River Tributary	0.020-0.050	0.05-0.100

Table 14: Roughness Coefficients, continued

Flooding Source	Channel "n"	Overbank "n"	
Spade Spring Canyon Creek	0.070	0.075	
Stokes Canyon	0.030	0.050	
Texas Canyon Creek	0.040-0.046	0.050-0.060	
Tick Canyon	0.015-0.050	0.050-0.130	
Topanga Canyon	0.030	0.050	
Towsley Canyon Creek	0.015-0.035	0.045-0.050	
Trancas Creek	0.030	0.050	
Triunfo Creek	0.012-0.045	0.012-0.06	
Unnamed Canyon (Serra Retreat Area)	0.030	0.050	
Unnamed Stream Main Reach	0.015-0.040	0.015-0.120	
Unnamed Stream Tributary 1	0.015-0.045	0.015-0.110	
Unnamed Stream Tributary 2	0.015-0.045	0.015-0.110	
Upper Los Angeles River Left Overbank	0.050-0.150	0.050-0.150	
Vasquez Canyon	0.020-0.044	0.044-0.060	
Weldon Canyon	0.035-0.065	0.035-0.065	
Whitney Canyon Creek	0.045	0.05-0.07	
Zuma Canyon	0.030	0.050	

¹This stream was studied using detailed 2-dimensional methods. Channel "n" values are not applicable in this case

## 5.3 Coastal Analyses

For the areas of Los Angeles County that are impacted by coastal flooding processes, coastal flood hazard analyses were performed to provide estimates of coastal BFEs. Coastal BFEs reflect the increase in water levels during a flood event due to extreme tides and storm surge as well as overland wave effects.

The following subsections provide summaries of how each coastal process was considered for this FIS Report. Greater detail (including assumptions, analysis, and results) is available in the archived project documentation. Table 15 summarizes the methods and/or models used for the coastal analyses and is followed by more detailed narratives describing the coastal analyses. Refer to Section 2.5 for descriptions of the terms used in this section.

**Table 15: Summary of Coastal Analyses** 

Flooding Source	Study Limits From	Study Limits To	Hazard Evaluated	Model or Method Used	Date Analysis was Completed
Pacific Ocean	Entire coastline of Los Angeles County	Entire coastline of Los Angeles County	Wave Setup and Runup	FEMA Pacific Guidelines 2005, Stockdon/ DIM, TAW	04/01/2015
Pacific Ocean	Entire coastline of Los Angeles County	Entire coastline of Los Angeles County	SWEL	Tide Frequency Analysis	04/01/2015
Pacific Ocean	Entire coastline of Los Angeles County	Entire coastline of Los Angeles County	Dune Erosion	FEMA Pacific Guidelines 2005, MK&A, Kriebel and Dean	04/01/2015
Pacific Ocean	Entire coastline of Los Angeles County	Entire coastline of Los Angeles County	Wave Overtopping	FEMA Pacific Guidelines 2005, Cox-Machemehl	04/01/2015
Pacific Ocean	Entire coastline of Los Angeles County	Entire coastline of Los Angeles County	Harbor Analysis	FEMA Pacific Guidelines 2005, Penney and Price, Wiegel	04/01/2015

## **Total Stillwater Elevations**

Total stillwater elevations were not analyzed in Los Angeles County and are not typically analyzed along the Pacific coast. In Los Angeles County, coastal BFE were ultimately determined from TWL. The TWL for the 1% annual chance event were determined for areas subject to coastal flooding. The models and methods that were used to determine storm surge and wave setup are listed in 15. The TWL that was calculated for each transect during the coastal analyses is shown in Table 1, "Coastal Transect Parameters." Figure 8 shows the TWL for the 1% annual chance event that was determined for this coastal analysis.



Figure 8: 1% Annual Chance Total Stillwater Elevations for Coastal Areas

## Astronomical Tide

Water level data were obtained from the NOAA National Ocean Service (NOS) tide gage network, which includes multiple gages along the California coast. The observed tide records were assumed to include all components of the SWL, including astronomical tides and storm surge.

## Storm Surge Statistics

Storm surge magnitudes were obtained from the NOAA NOS historical observed tide gage records. Although the observed tide records along the coast are mostly complete, there are some spatial and temporal gaps. Temporal gaps in the records were filled using an approach that applied the statistical relationships of observed non-tidal residuals between adjacent tide gages to estimate the non-tidal residual components at stations with missing data. Using these statistical correlations and an understanding of the spatial variability of regional storms, the gaps in the tide station

records were empirically reconstructed to provide a continuous hourly time series of stillwater levels for the 1960-2009 hindcast period at each tide gage in the open Pacific coast study area. SWL time series were subsequently evaluated for observed sea level trends and adjusted to the current national Datum Epoch of 1983-2001.

Once the hourly SWL hindcast was reconstructed at each tide gage, the reconstructed time series were applied along spatially homogeneous reaches of the coastline. For some open Pacific coastal reaches, it was determined that the nearest long-term tide station did not adequately represent the local tidal characteristics due to smaller-scale effects in the region. For these reaches, the predicted tides from short-term subordinate stations were combined with the reconstructed non-tidal residual time series from the long-term stations to produce a representative SWL hindcast.

Table 16 provides the gage name, managing agency, gage type, gage identifier, start date, end date, and statistical methodology applied to each gage used to determine the 1% annual chance SWEL.

Managing Agency of Tide Statistical Gage Name Gage Record Gage Type Start Date **End Date** Methodology Los Angeles NOAA Tide 1923 **GEV** 2009 (9410660) Santa Monica NOAA Tide 1973 2009 **GEV** (9410840)

**Table 16: Tide Gage Analysis Specifics** 

#### 5.3.1 Waves

The SWL were combined with calculated wave setup and runup heights to determine TWL at each analysis transect. The initial modeling of the offshore and nearshore wave climates within the study area was a critical component to the analysis. To provide adequate wave input data for the 1-D transect-based TWL analyses, Oceanweather Inc. developed a continuous 50-year hourly deepwater wave hindcast for the period of January 1, 1960 to December 31, 2009 along the California coastline (OWI, 2009). The wave modeling consisted of three nested model grids of sequentially higher resolution to resolve the wave conditions at varying spatial scales. These included the basin (global), regional (Northeast Pacific Ocean), and coastal (California) grids.

The deep-water wave characteristics were subsequently transformed to nearshore wave characteristics at the edge of the surf zone in approximately 49 feet water depth. The nearshore wave transformation modeling was conducted by the Scripps Institute of Oceanography (SIO) Coastal Data iNformation Program (CDIP) research group in collaboration with BakerAECOM using the SIO SHELF model (SIO, 2014). In select localized areas of complex shoreline geometry, wave data were also provided at 16 and 33 feet water depth. The output nearshore wave characteristics from this wave transformation model provided the input conditions for the 1-D transect-based wave setup and runup calculations.

#### 5.3.2 Coastal Erosion

A single storm episode can cause extensive erosion in coastal areas. Storm-induced dune erosion was evaluated to determine the modification to existing coastal dune topography that is expected with the 1% annual chance flood events. Dune erosion was analyzed using the methods listed in Table 15.

#### 5.3.3 Wave Hazard Analyses

This section is no applicable to this Flood Risk Project

**Table 17: Coastal Transect Parameters** 

		X, Y Coo (Meters, N. Zone	AD83 UTM		Total Wat	er Level (feet	NAVD88)	
Flood Sourc e	Coastal Transe ct	Х	Υ	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Pacifi c Ocea n	1	320653.13 57	3768287.9 841	16.5	17.2	17.7	18.2	19.3
Pacifi c Ocea n	2	321969.83 08	3768276.4 153	11.1	11.7	12.2	12.8	14.2
Pacifi c Ocea n	3	322326.44 71	3768238.1 425	18.2	19.2	20.0	20.8	22.7
Pacifi c Ocea n	4	323809.14 6	3767756.7 132	11.8	12.6	13.4	14.2	16.6
Pacifi c Ocea n	5	324255.29 84	3767695.5 632	13.7	14.3	14.8	15.3	16.3
Pacifi c Ocea n	6	325745.99 62	3767426.5 036	11.6	12.4	13.0	13.7	15.7
Pacifi c Ocea n	7	326542.14 22	3767336.5 05	18.1	19.1	19.7	20.4	22.0

**Table 17: Coastal Transect Parameters, continued** 

		X, Y Coo (Meters, N. Zone	AD83 UTM		Total Wat	er Level (feet	NAVD88)	
Flood Sourc e	Coastal Transe ct	Х	Υ	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Pacifi c Ocea n	8	326960.59 19	3767259.1 744	15.7	16.4	16.9	17.4	18.6
Pacifi c Ocea n	9	327578.89 24	3767091.1 492	17.6	18.4	19.0	19.6	20.9
Pacifi c Ocea n	10	328450.75 67	3766953.4 398	11.4	12.2	12.9	13.6	15.7
Pacifi c Ocea n	11	329193.35 29	3766766.4 068	23.5	26.0	28.1	30.5	36.7
Pacifi c Ocea n	12	329961.19 46	3766265.6 737	14.5	15.0	15.4	15.8	16.7
Pacifi c Ocea n	13	331064.91 02	3765287.3 225	18.2	18.9	19.3	19.8	20.7
Pacifi c Ocea n	14	331606.46 82	3764734.6 384	17.4	18.3	19.0	19.7	21.4
Pacifi c Ocea n	15	331911.31 55	3764404.0 478	19.1	20.1	20.9	21.7	23.7
Pacifi c Ocea n	16	332583.95 56	3763663.7 135	14.2	15.3	16.3	17.4	20.4

**Table 17: Coastal Transect Parameters, continued** 

		X, Y Coo (Meters, N. Zone	AD83 UTM		Total Wat	er Level (feet	NAVD88)	
Flood Sourc e	Coastal Transe ct	Х	Υ	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Pacifi c Ocea n	17	333190.61 27	3763642.6 014	14.4	15.2	15.9	16.6	18.5
Pacifi c Ocea n	18	334022.35 93	3763631.5 861	12.0	12.7	13.3	14.0	15.8
Pacifi c Ocea n	19	335090.16 22	3764751.1 847	12.5	13.0	13.3	13.6	14.4
Pacifi c Ocea n	20	335551.17 75	3765190.9 341	17.1	17.7	18.1	18.5	19.3
Pacifi c Ocea n	21	335782.59	3765349.0 677	10.9	11.3	11.7	12.0	13.0
Pacifi c Ocea n	22	336806.69 82	3765724.6 758	11.2	11.6	11.8	12.0	12.5
Pacifi c Ocea n	23	337098.94 93	3765786.1 015	19.2	20.6	21.7	22.9	25.6
Pacifi c Ocea n	24	337680.56 78	3765915.3 151	17.0	17.8	18.5	19.1	20.7
Pacifi c Ocea n	25	338478.55 68	3766240.8 588	16.6	17.9	19.0	20.2	23.2

**Table 17: Coastal Transect Parameters, continued** 

		X, Y Coo (Meters, N. Zone	AD83 UTM		Total Wat	er Level (feet	NAVD88)	
Flood Sourc e	Coastal Transe ct	Х	Υ	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Pacifi c Ocea n	26	338700.22 03	3766375.7 149	11.4	11.9	12.2	12.6	13.5
Pacifi c Ocea n	27	339835.31 43	3766633.2 752	17.3	18.3	19.2	20.2	22.7
Pacifi c Ocea n	28	340802.96 59	3766556.7 801	25.1	27.2	28.9	30.6	34.7
Pacifi c Ocea n	29	341850.08 45	3766361.4 861	15.0	15.5	15.9	16.2	16.8
Pacifi c Ocea n	30	342961.92 12	3766220.5 129	16.1	16.5	16.8	17.0	17.5
Pacifi c Ocea n	31	343854.66 75	3766306.0 718	17.5	18.0	18.4	18.7	19.3
Pacifi c Ocea n	32	344847.19 18	3766268.5 749	17.6	18.1	18.5	18.8	19.3
Pacifi c Ocea n	33	345803.46 17	3766928.7 825	11.7	12.1	12.5	12.8	13.6
Pacifi c Ocea n	34	346352.85 11	3767121.9 044	15.9	16.3	16.5	16.7	17.1

**Table 17: Coastal Transect Parameters, continued** 

		X, Y Coo (Meters, N. Zone	AD83 UTM	Total Water Level (feet NAVD88)				
Flood Sourc e	Coastal Transe ct	Х	Y	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Pacifi c Ocea n	35	347512.94 76	3766998.7 388	16.4	17.0	17.4	17.7	18.5
Pacifi c Ocea n	36	348065.57 97	3766995.8 764	16.8	17.8	18.5	19.2	20.9
Pacifi c Ocea n	37	348247.78 3	3767003.6 67	16.6	17.2	17.6	17.9	18.7
Pacifi c Ocea n	38	349001.62 19	3766925.2 441	16.3	17.6	18.7	19.9	23.0
Pacifi c Ocea n	39	349426.60 24	3766964.4 954	11.4	11.9	12.2	12.6	13.4
Pacifi c Ocea n	40	350193.82 96	3766994.6 63	14.2	16.4	18.6	21.4	31.0
Pacifi c Ocea n	41	351994.58 37	3766978.0 753	20.6	22.4	23.7	25.2	28.8
Pacifi c Ocea n	42	352413.66 63	3767001.3 553	18.1	19.4	20.4	21.5	24.2
Pacifi c Ocea n	43	352925.79 53	3766995.9 18	18.9	21.0	22.5	24.2	28.2

**Table 17: Coastal Transect Parameters, continued** 

		X, Y Coo (Meters, N. Zone	AD83 UTM		Total Wat	er Level (feet	NAVD88)	
Flood Sourc e	Coastal Transe ct	Х	Υ	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Pacifi c Ocea n	44	354426.08 84	3766974.6 102	11.5	11.9	12.2	12.5	13.1
Pacifi c Ocea n	45	354677.27 06	3767029.5 611	17.4	18.6	19.5	20.4	22.5
Pacifi c Ocea n	46	355131.70 04	3767138.4 302	12.1	14.1	16.4	19.6	32.7
Pacifi c Ocea n	47	356026.00 23	3766916.7 7	15.2	15.7	16.1	16.5	17.4
Pacifi c Ocea n	48	356348.79 3	3766835.6 505	18.9	20.7	22.0	23.3	26.2
Pacifi c Ocea n	49	357264.03 48	3766881.0 862	15.9	16.5	17.0	17.4	18.4
Pacifi c Ocea n	50	357846.35 16	3766710.7 684	15.6	16.2	16.6	17.1	18.0
Pacifi c Ocea n	51	358655.57 98	3766452.0 954	15.1	15.7	16.2	16.6	17.6
Pacifi c Ocea n	52	359157.55 78	3765855.2 185	13.6	14.1	14.6	15.0	16.1

**Table 17: Coastal Transect Parameters, continued** 

		X, Y Coo (Meters, N. Zone	AD83 UTM	Total Water Level (feet NAVD88)				
Flood Sourc e	Coastal Transe ct	Х	Y	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Pacifi c Ocea n	53	360251.32 51	3764758.5 672	15.3	16.0	16.5	17.0	18.1
Pacifi c Ocea n	54	360693.27 7	3764191.3 915	18.2	19.1	19.8	20.6	22.4
Pacifi c Ocea n	55	361327.01 4	3763330.3 876	13.7	14.4	14.9	15.4	16.7
Pacifi c Ocea n	56	361615.75 78	3763030.5 278	13.7	14.4	14.9	15.4	16.6
Pacifi c Ocea n	57	362552.74 3	3761712.7 912	15.2	16.0	16.7	17.3	19.1
Pacifi c Ocea n	58	363307.12 06	3760546.5 996	13.7	14.5	15.0	15.7	17.3
Pacifi c Ocea n	59	363839.50 62	3759818.6 87	13.2	13.7	14.1	14.6	15.6
Pacifi c Ocea n	60	364331.95 88	3759300.5 518	17.5	18.2	18.7	19.2	20.1
Pacifi c Ocea n	61	364773.40 88	3758101.1 857	15.1	15.7	16.0	16.4	17.0

**Table 17: Coastal Transect Parameters, continued** 

		X, Y Coo (Meters, N. Zone	AD83 UTM		Total Wat	er Level (feet	NAVD88)	
Flood Sourc e	Coastal Transe ct	Х	Υ	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Pacifi c Ocea n	62	365095.88 98	3757669.9 149	12.9	13.4	13.9	14.3	15.4
Pacifi c Ocea n	63	365799.46 92	3756422.9 669	19.8	20.9	21.8	22.7	24.8
Pacifi c Ocea n	64	366520.82 6	3754764.2 415	18.3	19.4	20.2	21.1	23.3
Pacifi c Ocea n	65	366908.07 16	3753875.1 579	13.1	13.6	13.9	14.3	15.1
Pacifi c Ocea n	66	367291.39 8	3753061.7 86	20.0	21.1	22.0	22.9	25.1
Pacifi c Ocea n	67	367594.95 71	3752345.7 636	16.6	17.6	18.3	19.1	21.0
Pacifi c Ocea n	68	367676.71	3752149.6 748	14.7	15.3	15.8	16.2	17.3
Pacifi c Ocea n	69	367779.00 22	3751892.9 293	14.6	15.2	15.6	16.0	16.9
Pacifi c Ocea n	70	367989.00 33	3751439.3 17	15.5	16.2	16.7	17.2	18.3

**Table 17: Coastal Transect Parameters, continued** 

		•	ordinates AD83 UTM 11N)	Total Water Level (feet NAVD88)				
Flood Sourc e	Coastal Transe ct	Х	Υ	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Pacifi c Ocea n	71	368433.40 19	3750380.6 531	15.4	16.1	16.6	17.0	18.1
Pacifi c Ocea n	72	368645.63 18	3749934.7 334	16.9	17.6	18.1	18.7	19.8
Pacifi c Ocea n	73	368856.34 97	3749546.2 682	18.0	18.9	19.5	20.1	21.4
Pacifi c Ocea n	74	369261.43 17	3748704.2 873	16.0	16.9	17.6	18.3	20.1
Pacifi c Ocea n	75	369495.86 46	3747942.6 23	16.5	17.6	18.5	19.5	22.3
Pacifi c Ocea n	76	369572.83 45	3747675.2 423	15.4	16.4	17.1	18.0	20.3
Pacifi c Ocea n	77	369729.95 33	3747192.7 507	16.1	17.0	17.6	18.3	20.0
Pacifi c Ocea n	78	370111.28 44	3746405.2 469	15.1	15.8	16.4	17.0	18.4
Pacifi c Ocea n	79	370109.84 52	3746382.3 876	19.6	21.1	22.2	23.4	26.4

**Table 17: Coastal Transect Parameters, continued** 

		X, Y Coo (Meters, N. Zone	AD83 UTM		Total Wat	er Level (feet	Level (feet NAVD88)		
Flood Sourc e	Coastal Transe ct	Х	Y	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance	
Pacifi c Ocea n	80 ¹	370210.04 58	3745669.9 463	*	*	*	20.7	22.8	
Pacifi c Ocea n	81 ¹	370967.85 69	3745239.3 381	7.6	8.0	8.3	8.7	9.9	
Pacifi c Ocea n	82	371060.14 31	3745172.9 306	11.3	11.8	12.2	12.7	13.7	
Pacifi c Ocea n	83	371150.06 17	3744919.5 309	11.7	12.2	12.6	13.0	13.9	
Pacifi c Ocea n	84	371045.03 91	3744462.6 429	10.6	11.0	11.3	11.7	12.5	
Pacifi c Ocea n	85	370751.42 48	3743718.6 068	12.0	12.6	13.1	13.6	15.0	
Pacifi c Ocea n	86	370656.16 3	3743020.4 678	14.3	15.4	16.4	17.5	20.6	
Pacifi c Ocea n	87	370358.09 54	3742272.8 51	16.6	17.8	18.8	19.9	23.0	
Pacifi c Ocea n	88	370175.14 6	3741885.6 494	11.6	12.2	12.8	13.4	15.1	

**Table 17: Coastal Transect Parameters, continued** 

		X, Y Coo (Meters, N. Zone	AD83 UTM	Total Water Level (feet NAVD88)				
Flood Sourc e	Coastal Transe ct	Х	Y	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Pacifi c Ocea n	89	369731.89 34	3741347.9 053	12.9	13.6	14.3	15.1	17.3
Pacifi c Ocea n	90	369027.40 36	3740314.5 299	12.8	14.5	16.1	18.1	24.8
Pacifi c Ocea n	91	367791.27 9	3739176.7 024	13.3	14.4	15.2	16.2	19.1
Pacifi c Ocea n	92	368330.67 32	3736194.8 737	14.7	17.0	19.2	22.0	31.7
Pacifi c Ocea n	93	369657.89 42	3733933.3 681	14.6	16.4	18.1	20.2	26.4
Pacifi c Ocea n	94	371380.60 31	3733810.6 651	14.5	15.5	16.4	17.3	19.6
Pacifi c Ocea n	95	372042.82 34	3733865.0 93	15.3	16.4	17.4	18.4	21.2
Pacifi c Ocea n	96	372860.25 51	3733517.2 855	13.7	14.8	15.7	16.6	19.2
Pacifi c Ocea n	97	373429.94 25	3733362.1 196	12.6	14.0	15.5	17.4	24.2

**Table 17: Coastal Transect Parameters, continued** 

		•	ordinates AD83 UTM 11N)		Total Wat	er Level (feet	NAVD88)	
Flood Sourc e	Coastal Transe ct	Х	Y	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Pacifi c Ocea n	98	373601.80 44	3733250.4 537	19.2	20.5	21.4	22.4	24.8
Pacifi c Ocea n	99	374032.53 23	3732892.6 628	15.1	16.0	16.6	17.2	18.8
Pacifi c Ocea n	100	375791.64 81	3731885.8 916	12.4	13.5	14.5	15.6	19.0
Pacifi c Ocea n	101	377117.06 43	3731173.0 772	11.6	12.3	12.9	13.6	15.5
Pacifi c Ocea n	102	377296.69 72	3731094.4 032	17.4	18.9	20.1	21.6	25.7
Pacifi c Ocea n	103	378379.25 04	3730586.5 428	13.1	13.9	14.5	15.2	17.0
Pacifi c Ocea n	104	379433.37 57	3730189.6 35	17.0	18.3	19.4	20.5	23.4
Pacifi c Ocea n	105	380556.76 06	3729731.0 17	11.2	11.8	12.2	12.7	13.9
Pacifi c Ocea n	106	381195.59 4	3729838.4 281	12.5	13.4	14.1	14.8	16.9

**Table 17: Coastal Transect Parameters, continued** 

		X, Y Coordinates (Meters, NAD83 UTM Zone 11N)		Total Water Level (feet NAVD88)				
Flood Sourc e	Coastal Transe ct	Х	Υ	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Pacifi c Ocea n	107	381308.58 39	3729851.9 043	15.7	16.8	17.7	18.6	21.1
Pacifi c Ocea n	108 ¹	383092.47 17	3730199.8 05	*	*	*	11.6	12.8
Pacifi c Ocea n	109 ¹	382653.57 16	3732101.8 157	*	*	*	10.9	12.0
Pacifi c Ocea n	110 ¹	384342.28 59	3730688.9 011	22.3	23.0	23.4	23.7	24.2
Pacifi c Ocea n	111 ¹	387198.50 41	3731761.1 628	7.8	8.2	8.6	9.0	10.2
Pacifi c Ocea n	112	391129.64 83	3735969.6 138	7.6	7.7	7.9	8.0	8.2
Pacifi c Ocea n	113	392127.01 2	3736578.5 783	7.8	8.0	8.2	8.4	8.8
Pacifi c Ocea n	114	392883.52 09	3735663.3 487	7.7	7.9	8.0	8.1	8.3
Pacifi c Ocea n	115	393487.23 21	3735281.1 46	7.9	8.1	8.2	8.3	8.5

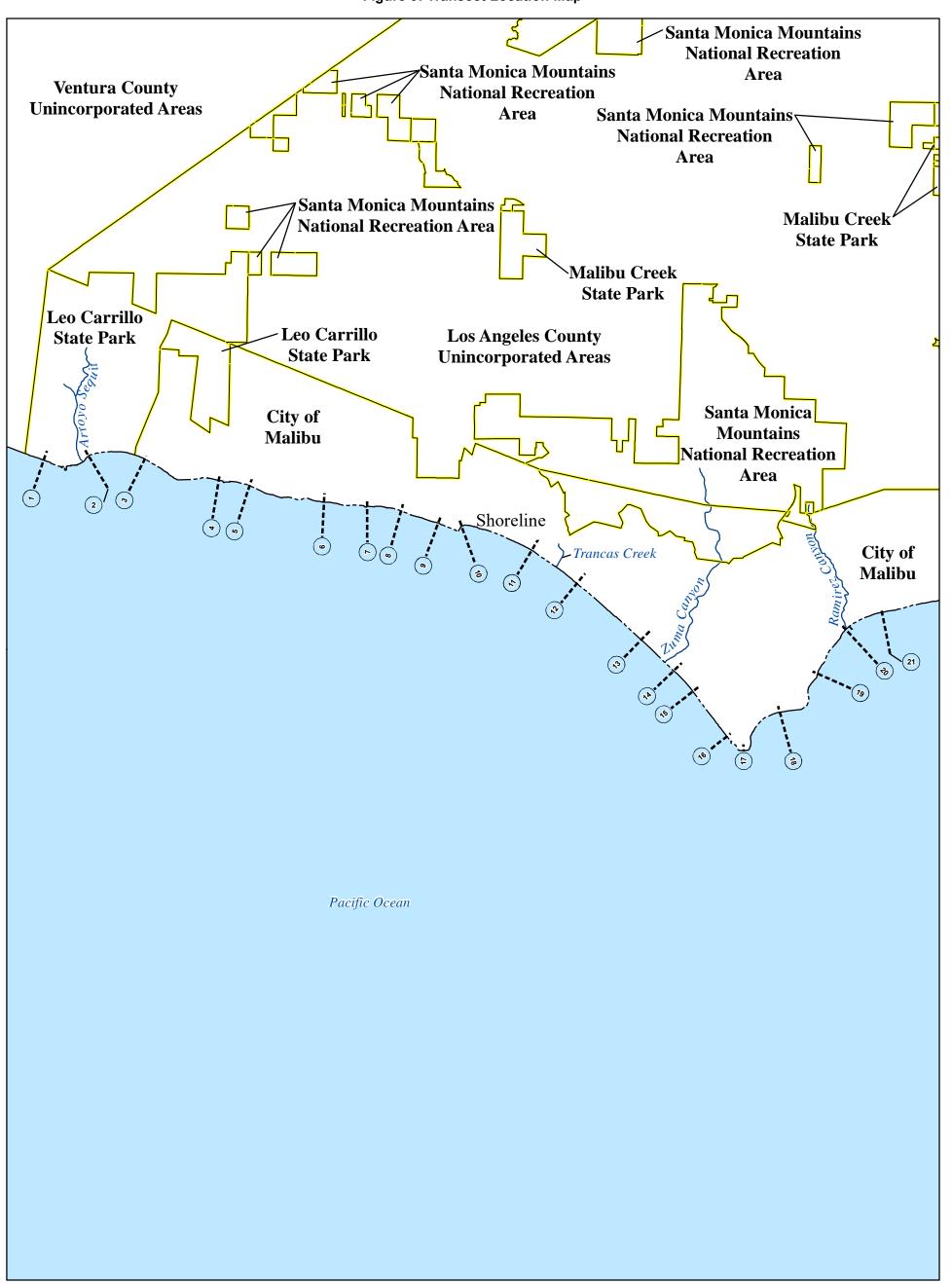
**Table 17: Coastal Transect Parameters, continued** 

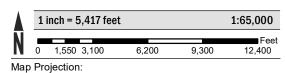
			ordinates AD83 UTM 11N)		Total Wat	er Level (feet	NAVD88)	
Flood Sourc e	Coastal Transe ct	Х	Y	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Pacifi c Ocea n	116	393568.79 13	3735209.4 322	8.2	8.3	8.4	8.4	8.6
Pacifi c Ocea n	117	393893.68 89	3735044.4 579	8.2	8.4	8.5	8.7	9.0
Pacifi c Ocea n	118	394558.16 25	3734657.9 184	8.7	8.8	8.9	8.9	9.0
Pacifi c Ocea n	119	395064.80 13	3734318.5 01	7.3	7.4	7.5	7.5	7.7
Pacifi c Ocea n	120	395907.52 47	3734834.5 95	8.6	8.8	8.9	9.0	9.3
Pacifi c Ocea n	121	395665.30 19	3733932.7 491	10.9	11.2	11.4	11.5	11.8

^{*}Not calculated for this Flood Risk Project

¹Wave analysis transects within sheltered harbor areas

Figure 9: Transect Location Map





Universal Transeverse Mercator Zone 11 North; North American Datum 1983



#### NATIONAL FLOOD INSURANCE PROGRAM

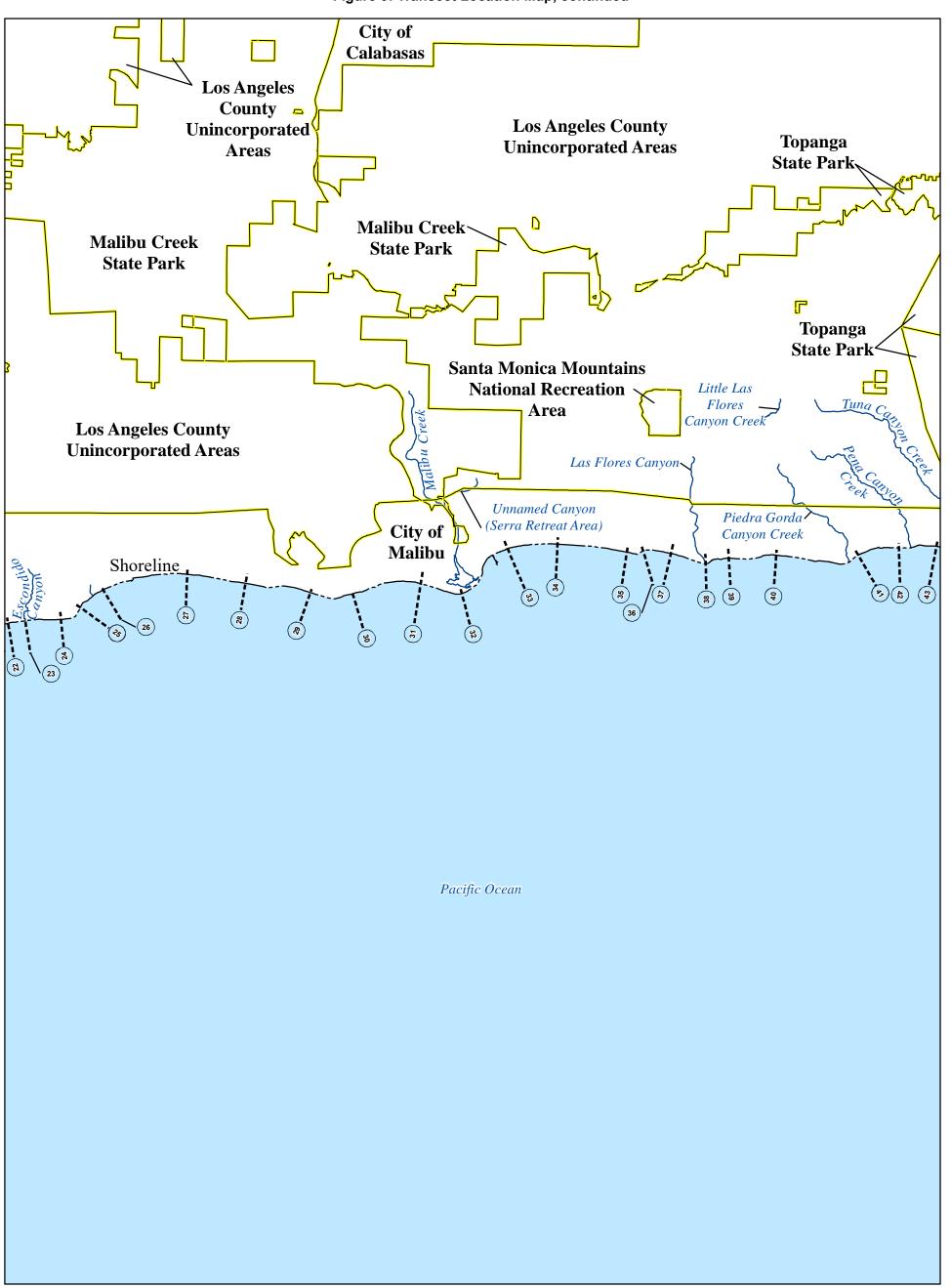
Transect Location Map 1

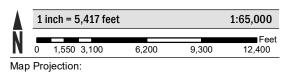
#### PANELS WITH TRANSECTS

1487G, 1491G, 1492G, 1511G, 1513G, 1514G, 1518G, 1519G



Figure 9: Transect Location Map, continued





Universal Transeverse Mercator Zone 11 North; North American Datum 1983



#### NATIONAL FLOOD INSURANCE PROGRAM

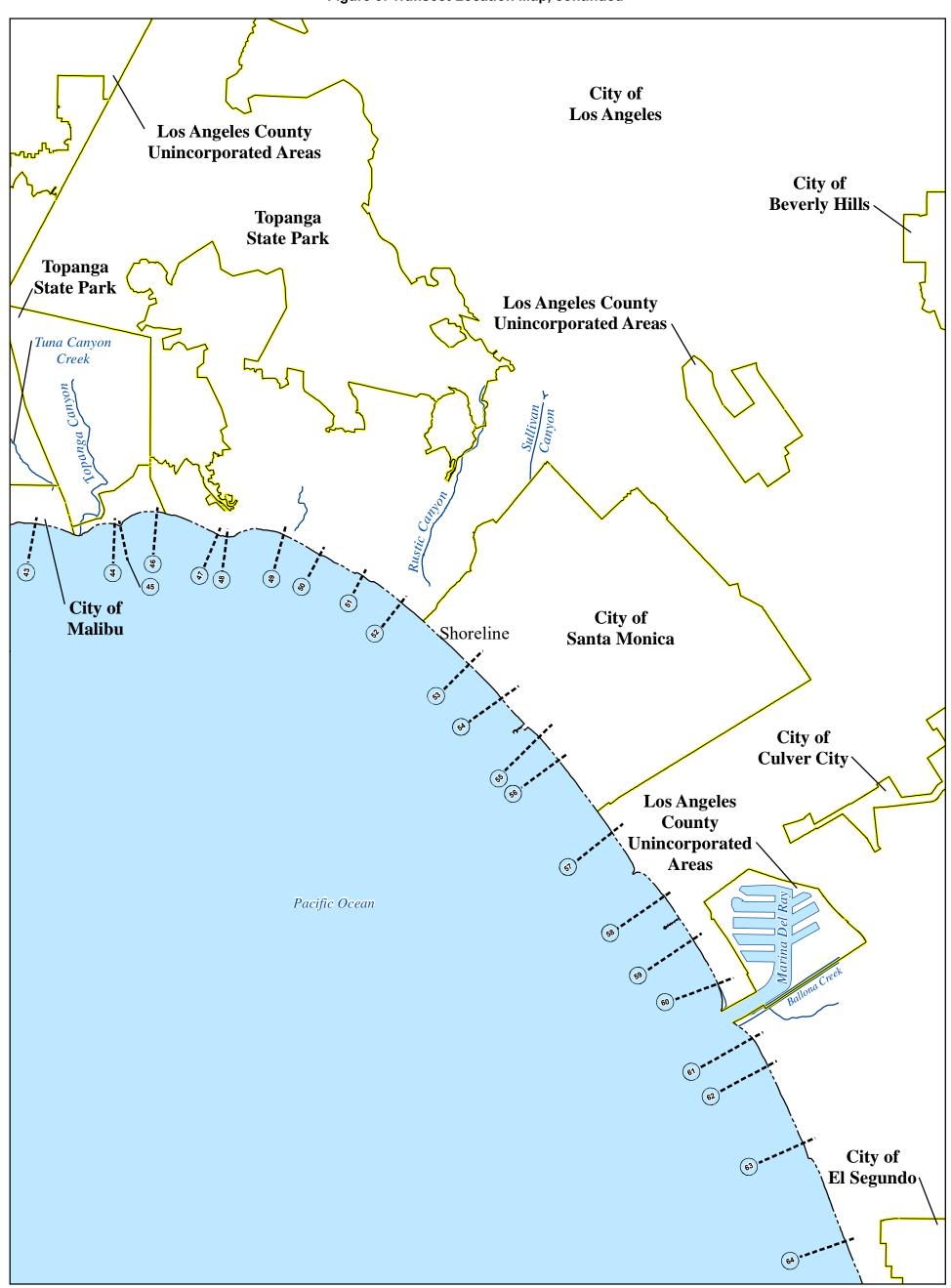
Transect Location Map 2

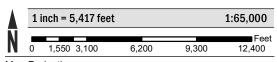
#### PANELS WITH TRANSECTS

1519G, 1536G, 1537G, 1538G, 1539G, 1541G, 1542G, 1543G, 1561G, 1562G



Figure 9: Transect Location Map, continued





Map Projection: Universal Transeverse Mercator Zone 11 North; North American Datum 1983



#### NATIONAL FLOOD INSURANCE PROGRAM

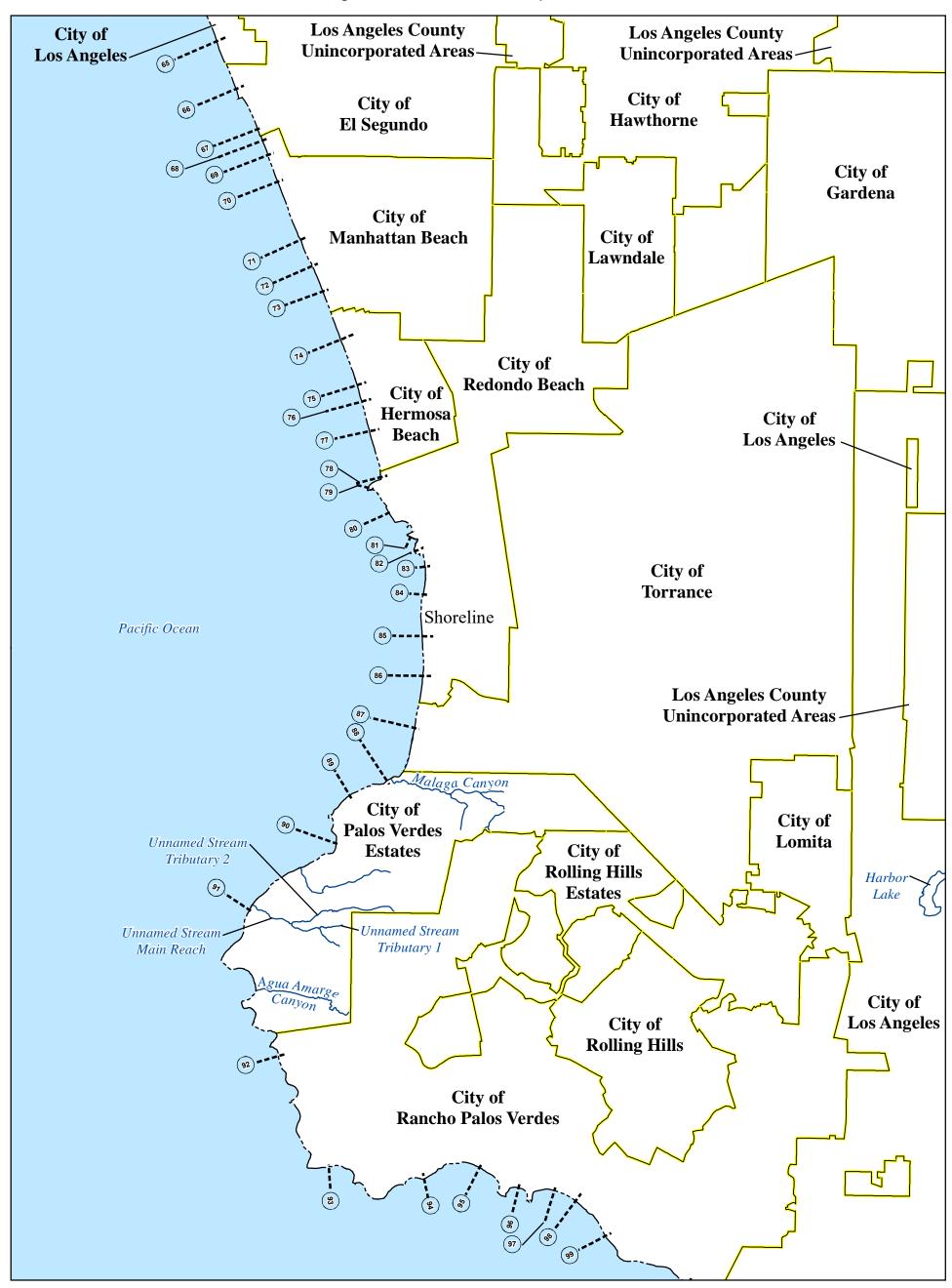
Transect Location Map 3

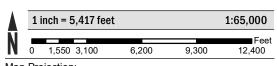
#### PANELS WITH TRANSECTS

1562G, 1566G, 1567G, 1569G, 1588G, 1751G, 1752G, 1754G, 1762G, 1766G



Figure 9: Transect Location Map, continued





Map Projection: Universal Transeverse Mercator Zone 11 North; North American Datum 1983



#### NATIONAL FLOOD INSURANCE PROGRAM

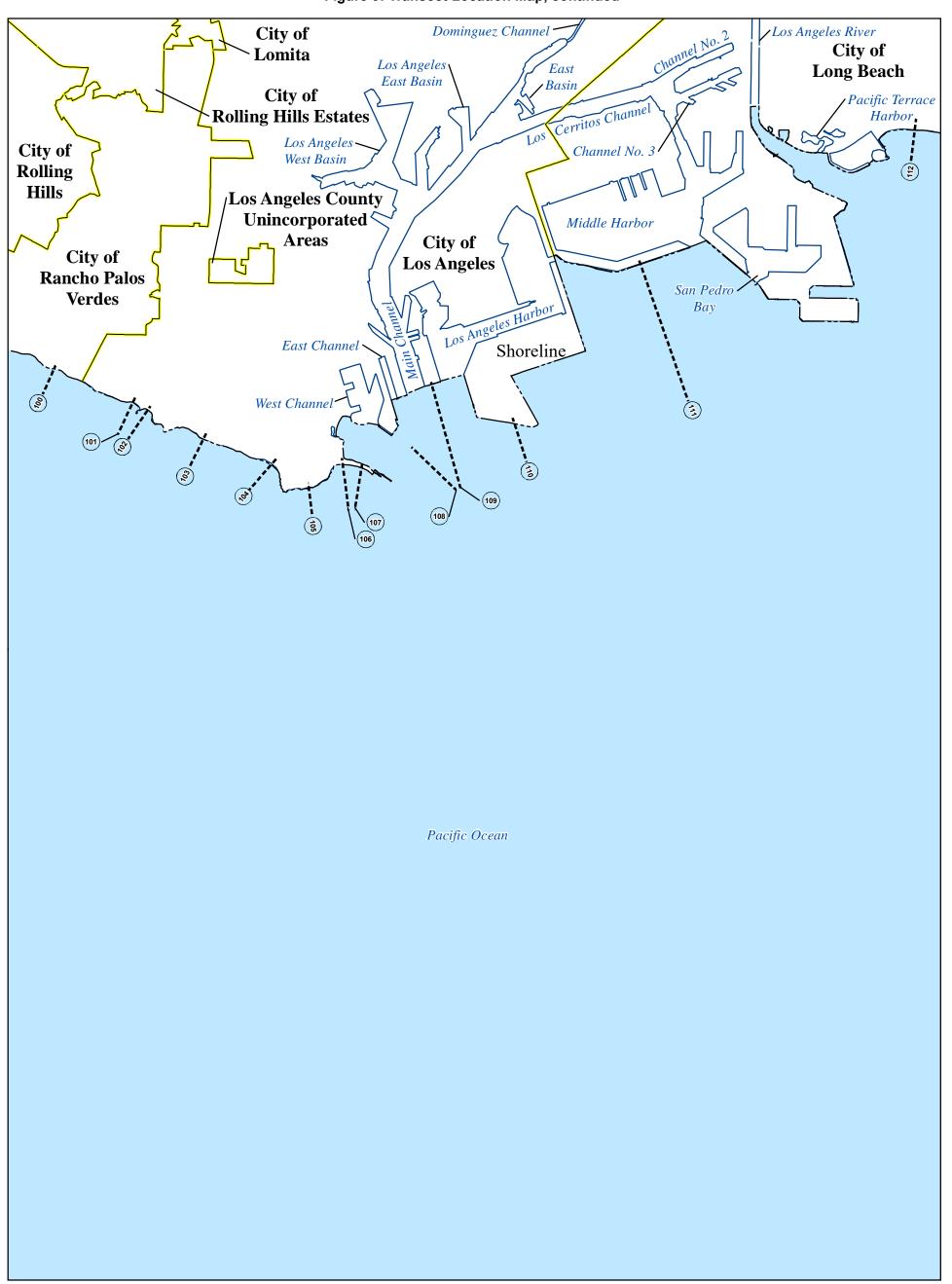
Transect Location Map 4

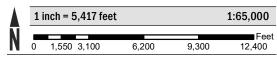
#### PANELS WITH TRANSECTS

1762G, 1766G, 1768G, 1906G, 1907G, 1909G, 1916H, 1917H, 1918H, 2006G, 2007G, 2026G



Figure 9: Transect Location Map, continued





Map Projection:

Universal Transeverse Mercator Zone 11 North; North American Datum 1983



#### NATIONAL FLOOD INSURANCE PROGRAM

Transect Location Map 5

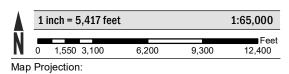
#### PANELS WITH TRANSECTS

1968G, 2027G, 2029G, 2032G, 2033G, 2034G, 2051G, 2052G, 2053G

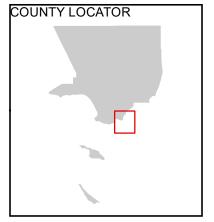


Figure 9: Transect Location Map, continued





Universal Transeverse Mercator Zone 11 North; North American Datum 1983



#### NATIONAL FLOOD INSURANCE PROGRAM

Transect Location Map 6

#### PANELS WITH TRANSECTS

1968G, 1969G, 2057G, 2076G



#### 5.4 Alluvial Fan Analyses

Alluvial fan flooding can pose significant risk to communities due to uncertain flow paths and the potential for mud and debris flows. Alluvial fans and flooding on alluvial fans show great diversity because of variations in climate, fan history, rates and styles of tectonism, source area lithology, vegetation, and land use. Acknowledging this diversity, FEMA developed an approach that considers site-specific conditions in the identification and mapping of flood hazards on alluvial fans. The FEMA alluvial fan methodology was used to determine the flood depths and velocities on the alluvial fans described in Table 18..

In the cities of Bellflower, Carson, Compton, Downey, Gardena, Lakewood, Long Beach, Los Angeles, Lynwood, Montebello, Paramount, Pico Rivera, Redondo Beach, Santa Clarita, Santa Fe Springs, South Gate, Torrance, and West Hollywood underlying soils are considered alluvial, and vary from coarse sand and gravel, to silty clay and gravel or clay. The land is generally well-drained, with relatively few perched water or artesian areas.

Soils in the vicinity of the City of Palmdale consist of sandy alluvial deposits ranging from very coarse deposits near the base of the San Gabriel Mountains to finer deposits extending to the northeast.

A summary of the peak discharge at the fan apex and results for the 1% annual chance determinations for all the streams studied by alluvial fan analyses is shown in Table 19, "Results of Alluvial Fan Analyses."

Table 18: Summary of Alluvial Fan Analyses
[Not Applicable to this Flood Risk Project]

Table 19: Results of Alluvial Fan Analyses

*  *  *  *  *  *  *  *  *  *  *  *	*  *  *  *  *  *  *  *  *  *  *  *  *	AO 1', A  AO 1'  AO 3', A  AO1-3'  AO 2'  AO 1', A  AO 2'  AO 2'	*  *  *  *  *  *  *  *  *  *	*  *  *  *  *  *  *  *  *
*  *  *  *  *  *  *	*  *  *  *  *  *  *  *	AO 1' AO 3', A AO1-3' AO 2' AO 1', A AO 3'	* * * *	* * * * *
*  *  *  *  *	*	AO 3', A  AO1-3'  AO 2'  AO 1', A  AO 3'	* * *	* * *
* * * * *	* * *	AO1-3' AO 2' AO 1', A AO 3'	* *	* *
* * *	* *	AO 2' AO 1', A AO 3'	*	*
* *	*	AO 1', A AO 3'	*	*
*	*	AO 3'		
*			*	*
	*	A O 2'		Ī
JL.		AU 2	*	*
*	*	AO 1-2', A	*	*
*	*	AO 1', A	*	*
*	*	AO 2-3'	*	*
*	*	AO 2', A	*	*
*	*	AO 1'	*	*
*	*	AO 1-2', A	*	*
*	*	AO 3', A	*	*
*	*	AO 1', A	*	*
*	*	AO 1'	*	*
*	*	AO 1'	*	*
*	*	AO 1-3', A	*	*
	*  *  *  *  *  *	* * * * * * * * * * * * * * * * * * *	* * * AO 1'  * AO 1-2', A  * AO 1-2', A  * AO 3', A  * AO 1', A  * AO 1'  * AO 1'  * AO 1'	* * * AO 1' * *  * AO 1-2', A *  * AO 3', A *  * AO 1', A *  * AO 1', A *  * AO 1' *  * AO 1' *

Table 19: Results of Alluvial Fan Analyses, continued

Flooding Source	Location From (apex)	Location To (toe)	1% Annual Chance Peak Flow at Fan Apex (cfs)	Flood Zones and Depths (ft)	Minimum Velocity (fps)	Maximum Velocity (fps)
South Fork Santa Clara River	*	*	*	AO 1-2'	*	*
Towsley Canyon Creek	*	*	*	AO 3', A	*	*
Vasquez Canyon	*	*	*	AO 1-3'	*	*

^{*}Data not available

#### **SECTION 6.0 – MAPPING METHODS**

#### 6.1 Vertical and Horizontal Control

All FIS Reports and FIRMs are referenced to a specific vertical datum. The vertical datum provides a starting point against which flood, ground, and structure elevations can be referenced and compared. Until recently, the standard vertical datum used for newly created or revised FIS Reports and FIRMs was the National Geodetic Vertical Datum of 1929 (NGVD29). With the completion of the North American Vertical Datum of 1988 (NAVD88), many FIS Reports and FIRMs are now prepared using NAVD88 as the referenced vertical datum.

Flood elevations shown in this FIS Report and on the FIRMs are referenced to NAVD88. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between NGVD29 and NAVD88 or other datum conversion, visit the National Geodetic Survey website at www.ngs.noaa.gov.

Temporary vertical monuments are often established during the preparation of a flood hazard analysis for the purpose of establishing local vertical control. Although these monuments are not shown on the FIRM, they may be found in the archived project documentation associated with the FIS Report and the FIRMs for this community. Interested individuals may contact FEMA to access these data.

To obtain current elevation, description, and/or location information for benchmarks in the area, please contact information services Branch of the NGS at (301) 713-3242, or visit their website at www.ngs.noaa.gov.

The datum conversion locations and values that were calculated for Los Angeles County are provided in Table 20.

## Table 20: Countywide Vertical Datum Conversion [Not Applicable to this Flood Risk Project]

A countywide conversion factor could not be generated for Los Angeles County because the maximum variance from average exceeds 0.25 feet. Calculations for the vertical offsets on a stream by stream basis are depicted in Table 21.

**Table 21: Stream-Based Vertical Datum Conversion** 

Flooding Source	Average Vertical Datum Conversion Factor (feet)
Amargosa Creek	+2.800
Anaverde Creek	+2.800
Avalon Canyon	+2.800
Big Rock Wash	+2.800
Cheseboro Creek	+2.900
Cold Creek	+2.900
Dark Canyon	+2.900
Dry Canyon	+2.900
Escondido Canyon	+2.900
Flow Along Empire Avenue	+2.800
Flowline No. 1	+2.800
Garapito Creek	+2.900
Hacienda Creek	+2.800
Kagel Canyon	+2.800
La Mirada Creek	+2.800
Lake Street Overflow	+2.800
Las Flores Canyon	+2.900
Las Virgenes Creek	+2.900
Liberty Canyon	+2.900
Lindero Canyon (Above Confluence with Medea Creek)	+2.900
Lindero Canyon (Above Lake Lindero)	+2.900
Little Rock Wash - Profile A	+2.800
Little Rock Wash - Profile B	+2.800
Little Rock Wash - Profile C	+2.800
Lobo Canyon	+2.900
Lockheed Drain Channel	+2.800
Lopez Canyon Channel	+2.800
Los Angeles River Left Overbank Path 2	+2.800
Los Angeles River Right Overbank Path 1	+2.800
Los Angeles River Right Overbank Path 2	+2.800
Malibu Creek	+2.900
Medea Creek	+2.900

Table 21: Stream-Based Vertical Datum Conversion, continued

Flooding Source	Average Vertical Datum Conversion Factor (feet)
Medea Creek (Above Ventura Freeway)	+2.900
Mill Creek	+2.800
North Overflow	+2.800
Old Topanga Canyon	+2.900
Overflow Area of Lockheed Drain Channel	+2.800
Overflow Area of Lockheed Storm Drain	+2.800
Palo Comando Creek	+2.900
Ramirez Canyon	+2.900
Rio Hondo River Left Overbank Path 3	+2.800
Rio Hondo River Left Oerbank Path 5	+2.800
Rio Hondo River Left Overbank Path 6	+2.800
Rustic Canyon	+2.800
Santa Maria Canyon	+2.900
Stokes Canyon	+2.900
Topanga Canyon	+2.900
Trancas Creek	+2.900
Triunfo Creek	+2.900
Unnamed Canyon (Serra Retreat Area)	+2.900
Upper Los Angeles River Left Overbank	+2.800
Weldon Canyon	+2.900
Zuma Canyon	+2.900

#### 6.2 Base Map

The FIRMs and FIS Report for this project have been produced in a digital format. The flood hazard information was converted to a Geographic Information System (GIS) format that meets FEMA's FIRM database specifications and geographic information standards. This information is provided in a digital format so that it can be incorporated into a local GIS and be accessed more easily by the community. The FIRM Database includes most of the tabular information contained in the FIS Report in such a way that the data can be associated with pertinent spatial features. For example, the information contained in the Floodway Data table and Flood Profiles can be linked to the cross sections that are shown on the FIRMs. Additional information about the FIRM Database and its contents can be found in FEMA's *Guidelines and Standards for Flood Risk Analysis and Mapping*, www.fema.gov/guidelines-and-standards-flood-risk-analysis-and-mapping.

# FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

**VOLUME 3 OF 9** 



# LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
AGOURA HILLS, CITY OF	065072	COMMERCE, CITY OF	060110
ALHAMBRA, CITY OF*	060095	COMPTON, CITY OF	060111
ARCADIA, CITY OF*	065014	COVINA, CITY OF*	065024
ARTESIA, CITY OF*	060097	CUDAHY, CITY OF	060657
AVALON, CITY OF	060098	CULVER CITY, CITY OF	060114
AZUSA, CITY OF	065015	DIAMOND BAR, CITY OF	060741
BALDWIN PARK, CITY OF*	060100	DOWNEY, CITY OF	060645
BELL, CITY OF*	060101	DUARTE, CITY OF*	065026
BELL GARDENS, CITY OF	060656	EL MONTE, CITY OF*	060658
BELLFLOWER, CITY OF	060102	EL SEGUNDO, CITY OF	060118
BEVERLY HILLS, CITY OF*	060655	GARDENA, CITY OF	060119
BRADBURY, CITY OF*	065017	GLENDALE, CITY OF	065030
BURBANK, CITY OF	065018	GLENDORA, CITY OF*	065031
CALABASAS, CITY OF	060749	HAWAIIAN GARDENS, CITY OF*	065032
CARSON, CITY OF	060107	HAWTHORNE, CITY OF*	060123
CERRITOS, CITY OF	060108	HERMOSA BEACH, CITY OF	060124
CLAREMONT, CITY OF*	060109	HIDDEN HILLS, CITY OF	060125

^{*}No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

FLOOD INSURANCE STUDY NUMBER

06037CV003F

Version Number 2.3.3.2



HUNTINGTON PARK, CITY OF*  065035  POMONA, CITY OF*  065036  RANCHO PALOS VERDES, CITY OF  060148  IRWINDALE, CITY OF*  065036  RANCHO PALOS VERDES, CITY OF  060150  LA CANADA FLINTRIDGE, CITY OF*  060129  REDONDO BEACH, CITY OF*  060151  LA HABRA HEIGHTS, CITY OF*  060169  ROLLING HILLS, CITY OF*  060151  LA HABRA HEIGHTS, CITY OF*  060131  ROSEMEAD, CITY OF*  060153  LA PUENTE*, CITY OF  060133  SAN DIMAS, CITY OF  060154  LA VERNE, CITY OF  060130  SAN GABRIEL, CITY OF*  060628  LAKEWOOD, CITY OF  060131  SAN GABRIEL, CITY OF*  060555  LANCASTER, CITY OF  060134  SANTA CLARITA, CITY OF  060155  LOMITA, CITY OF*  060135  SANTA CLARITA, CITY OF  060156  LONG BEACH, CITY OF  060136  SANTA MARINO, CITY OF  060158  LONG BEACH, CITY OF  060137  SIERRA MADRE, CITY OF  060158  LOS ANGELES, CITY OF  060159  LOS ANGELES COUNTY  UNINCORPORATED AREAS  065043  SIGNAL HILL, CITY OF*  060161  LYNWOOD, CITY OF  060162  MALIBU, CITY OF  060163  MANHATTAN BEACH, CITY OF  060164  MAYWOOD, CITY OF*  060165  MONTORIAED AREAS  065045  MAYWOOD, CITY OF*  060166  MONTERED AREAS  065046  MONTERED AREAS  065047  WALNUT, CITY OF*  060166  MONTEREY PARK, CITY OF  060167  060169  PASADENA, CITY OF  060169  PASADENA, CITY OF  060169  PASADENA, CITY OF  060169	COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
INGLEWOOD, CITY OF*  060129  REDONDO BEACH, CITY OF 060150  LA CANADA FLINTRIDGE, CITY OF*  060699  ROLLING HILLS, CITY OF*  060151  LA HABRA HEIGHTS, CITY OF*  060701  ROLLING HILLS ESTATES, CITY OF*  060151  LA MIRADA, CITY OF 060131  ROSEMEAD, CITY OF*  060153  LA PUENTE*, CITY OF 060133  LA PUENTE*, CITY OF 060133  LA VERNE, CITY OF 060130  LAKEWOOD, CITY OF 060130  LANCASTER, CITY OF 0606622  LANCASTER, CITY OF 060134  LANDALE, CITY OF*  060134  SAN FERNANDO, CITY OF*  0605057  LAWNDALE, CITY OF*  060135  LANCASTER, CITY OF*  060136  LONITA, CITY OF*  060137  SANTA FE SPRINGS, CITY OF 060158  LONG BEACH, CITY OF 060137  SIERRA MADRE, CITY OF*  060159  LOS ANGELES, CITY OF 060635  LOS ANGELES COUNTY UNINCORPORATED AREAS  LYNWOOD, CITY OF 060138  SOUTH EL MONTE, CITY OF*  060161  MAYWOOD, CITY OF*  060138  SOUTH PASADENA, CITY OF*  060163  MANHATTAN BEACH, CITY OF*  060651  MAYWOOD, CITY OF*  060651  MAYWOOD, CITY OF*  060653  MONROVIA, CITY OF*  060654  MONTEBELLO, CITY OF*  060656  MONTEBELLO, CITY OF*  060666  MONTEREY PARK, CITY OF*  060666  MONTEREY PARK, CITY OF*  060166  MONTEREY PARK, CITY OF*  060166  MONTEREY PARK, CITY OF*  060166  MONTEREY PARK, CITY OF 060144  WEST HOLLYWOOD, CITY OF*  060160  060160  WHITTIER, CITY OF*  060160  060161  WESTLAKE VILLAGE, CITY OF  060166  MONTEREY PARK, CITY OF 060145  WESTLAKE VILLAGE, CITY OF  060166  MONTEREY PARK, CITY OF 060144  WEST HOLLYWOOD, CITY OF*  060160	HUNTINGTON PARK, CITY OF*	060126	PICO RIVERA, CITY OF	060148
REWINDALE, CITY OF*   060129   REDONDO BEACH, CITY OF   060150     LA CANADA FLINTRIDGE, CITY OF*   060669   ROLLING HILLS, CITY OF*   060151     LA HABRA HEIGHTS, CITY OF*   060701   ROLLING HILLS ESTATES, CITY OF*   065054     LA MIRADA, CITY OF   060131   ROSEMEAD, CITY OF*   060153     LA PUENTE*, CITY OF   065039   SAN DIMAS, CITY OF   060154     LA VERNE, CITY OF   060133   SAN FERNANDO, CITY OF   060628     LAKEWOOD, CITY OF   060130   SAN GABRIEL, CITY OF*   065055     LANCASTER, CITY OF   060134   SANTA CLARITA, CITY OF*   0605057     LAWNDALE, CITY OF*   060134   SANTA CLARITA, CITY OF   060158     LONG BEACH, CITY OF   060135   SANTA MONICA, CITY OF   060158     LONG BEACH, CITY OF   060136   SANTA MONICA, CITY OF   060159     LOS ANGELES, CITY OF   060137   SIERRA MADRE, CITY OF*   060169     LOS ANGELES COUNTY UNINCORPORATED AREAS   065043   SIGNAL HILL, CITY OF*   060161     LYNWOOD, CITY OF   060635   SOUTH EL MONTE, CITY OF*   060162     MALIBU, CITY OF   060138   SOUTH GATE, CITY OF*   060163     MANHALTAN BEACH, CITY OF   060138   SOUTH PASADENA, CITY OF*   060651     MAYWOOD, CITY OF*   060651   TEMPLE CITY, CITY OF*   060165     MONTCUIA, CITY OF*   060141   VERNON, CITY OF*   060166     MONTEREY PARK, CITY OF*   065047   WALNUT, CITY OF*   060166     MONTEREY PARK, CITY OF*   060164   WEST HOLLYWOOD, CITY OF*   060666     PALMDALE, CITY OF   060144   WEST HOLLYWOOD, CITY OF*   060720     PALADOUNT, CITY OF*   060145   WESTLAKE VILLAGE, CITY OF   060744     PARAMOUNT, CITY OF*   060145   WESTLAKE VILLAGE, CITY OF   060744     PARAMOUNT, CITY OF*   060145   WESTLAKE VILLAGE, CITY OF   060744     PARAMOUNT, CITY OF*   060145   WHITTIER, CITY OF   060169     WHITTIER, CITY OF   060144   WEST HOLLYWOOD, CITY OF*   060744     PARAMOUNT, CITY OF*   060145   WHITTIER, CITY OF   060160     WHITTIER, CITY OF   060144   WESTLAKE VILLAGE, CITY OF   060744     PARAMOUNT, CITY OF*   060145   WHITTIER, CITY OF   060160     WHITTIER, CITY OF   060160   WHITTIER, CITY OF   060160     CONTRACTOR OF THE TIN	INDUSTRY, CITY OF*	065035	POMONA, CITY OF*	060149
LA CANADA FLINTRIDGE, CITY OF*         060669         ROLLING HILLS, CITY OF*         060151           LA HABRA HEIGHTS, CITY OF*         060701         ROLLING HILLS ESTATES, CITY OF*         065054           LA MIRADA, CITY OF         060131         ROSEMEAD, CITY OF*         060153           LA PUENTE*, CITY OF         065039         SAN DIMAS, CITY OF         060154           LA VERNE, CITY OF         060133         SAN FERNANDO, CITY OF         060628           LAKEWOOD, CITY OF         060130         SAN GABRIEL, CITY OF*         065055           LANCASTER, CITY OF         060672         SAN MARINO, CITY OF*         065057           LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         0605059           LOS ANGELES COUNTY         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH PASADENA, CITY OF*         065061           MA	INGLEWOOD, CITY OF*	065036	RANCHO PALOS VERDES, CITY OF	060464
LA HABRA HEIGHTS, CITY OF*         060701         ROLLING HILLS ESTATES, CITY OF*         065054           LA MIRADA, CITY OF         060131         ROSEMEAD, CITY OF*         060153           LA PUENTE*, CITY OF         065039         SAN DIMAS, CITY OF         060154           LA VERNE, CITY OF         060133         SAN FERNANDO, CITY OF         060628           LAKEWOOD, CITY OF         060130         SAN GABRIEL, CITY OF*         065055           LANCASTER, CITY OF         060672         SAN MARINO, CITY OF*         065057           LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY         060137         SIERRA MADRE, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060162           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONTEBELLO, CITY OF* </td <td>IRWINDALE, CITY OF*</td> <td>060129</td> <td>REDONDO BEACH, CITY OF</td> <td>060150</td>	IRWINDALE, CITY OF*	060129	REDONDO BEACH, CITY OF	060150
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^{*}No Special Flood Hazard Areas Identified

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# FLOOD INSURANCE STUDY NUMBER **06037CV003F**

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	Flood Profiles	<u>Panel</u>	
	cton Canyon	001P - 004P	
Α	gua Dulce Canyon Creek	005P - 013P	

Agua Dulce Canyon Creek Lateral	014P
Aliso Canyon Creek	015P - 017P
Amargosa Creek	018P - 020P
Anaverde Creek	021P - 023P
Avalon Canyon	024P - 027P
Big Rock Wash	028P - 029P
Bouquet Canyon Creek	030P - 052P
Castaic Creek	053P - 057P
Cheseboro Creek	058P - 060P
Cold Creek	061P - 066P
Dark Canyon	067P - 068P
Dry Canyon	069P - 078P
Elsmere Canyon Creek	079P - 081P
Escondido Canyon	082P - 085P
Flow Along Empire Avenue	086P
Flowline No. 1	087P
Garapito Creek	088P- 090P
Hacienda Creek	091P

#### Volume 6 Exhibits

Flood Profiles	<u>Panel</u>
Haskell Canyon	092P- 095P
Hasley Canyon Creek	096P- 101P
Hasley Canyon Creek Split	102P
Iron Canyon	103P- 107P
Kagel Canyon	108P -119P
Kentucky Springs Canyon Creek	120P -122P
La Mirada Creek	123P -127P
Las Flores Canyon	128P -131P
Las Virgenes Creek	132P -141P
Liberty Canyon	142P -143P
Lindero Canyon	
(Above Confluence with Medea Creek)	144P -145P
Lindero Canyon	
(Above Lake Lindero)	146P -151P
Lindero Canyon Spillway at Lake Lindero	152P
Lion Canyon	153P-155P
Little Rock Wash–Profile A	156P -159P
Little Rock Wash–Profile B	160P
Little Rock Wash–Profile C	161P
Lobo Canyon	162P -165P
Lockheed Drain Channel	166P -169P
Long Canyon	170P -172P

Lopez Canyon Channel	173P -174P
Los Angeles River Left Overbank Path 2	175P -178P
Los Angeles River Right Overbank Path 1	179P -181P

#### Volume 7 Exhibits

Flood Profiles	<u>Panel</u>
Los Angeles River Right Overbank Path 2	182P
Malibu Creek	183P -185P
Madea Creek	186P -197P
Madea Creek	
(Above Ventura Freeway)	198P -199P
Mill Creek	200P -204P
Mint Canyon Creek	205P -217P
Mint Canyon Creek Overflow	218P -219P
Newhall Creek	220P -226P
Newhall Creek Left Overbank 2	227P
Newhall Creek Left Overbank 3	228P -229P
Newhall Creek Right Overbank 1	230P
North Overflow (A)	231P
North Overflow (B)	232P
Oak Springs Canyon	233P -235P
Oak Springs Canyon Overflow	236P
Old Topanga Canyon	237P -242P
Overflow Area of Lockheed Drain Channel	243P
Overflow Area of Lockheed Storm Drain	244P
Palo Comando Creek	245P - 250P
Pico Canyon	251P - 253P
Placerita Creek	254P - 258P
Placerita Creek Overflow	259P - 260P
Plum Canyon	261P
Potrero Canyon	262P - 265P
Potrero Canyon Overflow	266P
Quigley Canyon Creek	267P - 268P
Railroad Canyon Left Overbank	269P
Railroad Canyon	270P

### Volume 8 Exhibits

Flood Profiles	<u>Panel</u>
Ramirez Canyon	271P - 276P

Rio Hondo River Left Overbank Path 3	277P
Rio Hondo River Left Overbank Path 5	278P - 279P
Rio Hondo River Left Overbank Path 6	280P
Rustic Canyon	281P - 284P
San Francisquito Canyon Creek	285P - 292P
San Martinez Chiquito Canyon	293P - 297P
San Martinez Grande Canyon Creek	298P - 300P
Sand Canyon Creek	301P - 308P
Santa Clara River	309P - 339P
Santa Clara River Overflow	340P
Santa Maria Canyon	341P
Soledad Canyon	342P - 346P
South Fork Santa Clara River	347P - 350P
South Fork Santa Clara River Tributary	351P
Spade Spring Canyon Creek	352P - 357P
Stokes Canyon	358P - 361P
Texas Canyon Creek	362P

#### Volume 9 Exhibits

Flood Profiles	<u>Panel</u>
Tick Canyon	363P - 365P
Topanga Canyon	366P - 390P
Towsley Canyon Creek	391P
Trancas Creek	392P
Triunfo Creek	393P - 397P
Unnamed Canyon (Serra Retreat Area)	398P - 399P
Unnamed Stream Main Reach	400P - 405P
Unnamed Stream Tributary 1	406P - 407P
Unnamed Stream Tributary 2	408P - 410P
Upper Los Angeles River Left Overbank	411P
Vasquez Canyon	412P - 413P
Weldon Canyon	414P - 415P
Whitney Canyon Creek	416P - 417P
Zuma Canyon	418P - 425P

#### **Published Separately**

Flood Insurance Rate Map (FIRM)

**Table 22: Base Map Sources** 

Data Type	Data Provider	Data Date	Data Scale	Data Description
Digital Data	City of Santa Clarita	2019	1:6,000	Corporate limits for the City of Santa Clarita
Digital Vector Data	U.S. Geological Survey (USGS)	1989	1:24,000	Spatial and attribute information for the index of USGS 7.5-Minute Series Topographic Map boundaries
Digital Orthophoto	U.S. Geological Survey (USGS)	2004	1:12,000	Spatial and attribute information for some streamlines, roads and some general structures
Digital Orthophoto	U.S. Dept. of Agriculture - Farm Service Agency	2014	1:12,000	Digital ortho imagery for Los Angeles County, CA
Digital Vector Data	Bureau of Land Management	2008	1:12,000	Spatial and attribute information for PLSS Section, Township, and Range Gridlines
Digital Vector Data	GreenInfo Network - California Protected Areas Database	2014	1:12,000	Spatial and attribute information for National Forests.
Digital Vector Data	Los Angeles County	2013	1:12,000	Spatial and attribute information for political boundaries for Los Angeles County and Incorporated areas
Digital Vector Data	Bureau of Land Management	2005	1:12,000	Spatial and attribute information for Federal Lands and Military base
Digital Vector Data	U.S. Dept. of Commerce, U.S. Census Bureau, Geography Division	2014	1:12,000	Spatial and attribute information for transportation labels

#### **6.3** Floodplain and Floodway Delineation

The FIRM shows tints, screens, and symbols to indicate floodplains and floodways as well as the locations of selected cross sections used in the hydraulic analyses and floodway computations .

For riverine flooding sources, the mapped floodplain boundaries shown on the FIRM have been delineated using the flood elevations determined at each cross section; between cross sections, the boundaries were interpolated using the topographic elevation data described in Table 23 . For each coastal flooding source studied as part of

this FIS Report, the mapped floodplain boundaries on the FIRM have been delineated using the flood and wave elevations determined at each transect; between transects, boundaries were delineated using land use and land cover data, the topographic elevation data described in Table 23, and knowledge of coastal flood processes. In ponding areas, flood elevations were determined at each junction of the model; between junctions, boundaries were interpolated using the topographic elevation data described in Table 23.

In cases where the 1% and 0.2 % annual chance floodplain boundaries are close together, only the 1% annual chance floodplain boundary has been shown. Small areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data.

The floodway widths presented in this FIS Report and on the FIRM were computed for certain stream segments on the basis of equal conveyance reduction from each side of the floodplain. Floodway widths were computed at cross sections. Between cross sections, the floodway boundaries were interpolated.

Small areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data. The procedures to remove these areas from the SFHA are described in Section 6.5 of this FIS Report.

indicates the flooding sources for which floodways have been determined. The results of the floodway computations for those flooding sources have been tabulated for selected cross sections and are shown in Table 24, "Floodway Data."

Certain flooding sources may have been studied that do not have published BFEs on the FIRMs, or for which there is a need to report the 1% annual chance flood elevations at selected cross sections because a published Flood Profile does not exist in this FIS Report . These streams may have also been studied using methods to determine non encroachment zones rather than floodways. For these flooding sources, the 1% annual chance floodplain boundaries have been delineated using the flood determined at each cross section; between cross sections. the boundaries interpolated using the topographic elevation data described in Table 23. All topographic data used for modeling or mapping has been converted as necessary to NAVD 88. The 1% annual chance elevations for selected cross sections along these flooding sources, along with their non-encroachment widths, if calculated, are shown in Table 25, "Flood Hazard and Non-Encroachment Data for Selected Streams."

Table 23: Summary of Topographic Elevation Data used in Mapping

		Source for	or Topographic	c Elevation Da	ta
Community	Flooding Source	Description	Scale	Contour Interval	Citation
Los Angeles County and Incorporated Areas	All studied streams within this FIS report	LiDAR	1:100	2 ft	Los Angeles Region Imagery Acquisition Consortium (LAR-IAC)
El Segundo, City of; Hermosa Beach, City of; Long Beach, City of; Los Angeles, City of; Los Angeles County, Unincorporated Areas; Malibu, City of; Manhattan Beach, City of; Palos Verdes Estates, City of; Rancho Palos Verdes, City of; Redondo Beach, City of; Santa Monica, City of; Torrance, City of		LiDAR OPC/ USGS 2009-2011 & BATHY NOAA	N/A	2 ft	USGS, 2009- 2011

BFEs shown at cross sections on the FIRM represent the 1% annual chance water surface elevations shown on the Flood Profiles and in the Floodway Data tables in the FIS Report . Rounded whole -foot elevations may be shown on the FIRM in coastal areas, areas of ponding, and other areas with static base flood elevations.

Table 24: Floodway Data

LOCA	TION		FLOODWAY	,	1% ANNU	AL CHANCE FLO	OOD WATER SU EET NAVD88)	RFACE
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A B C D E F G H I J K	1,735 2,976 3,746 4,256 4,424 5,055 6,299 7,319 8,239 8,961 9,619	370 416 214 138 114 167 78 79 80 112 88	1,078 928 274 231 225 250 193 199 203 224 196	3.8 4.4 6.1 7.2 7.4 6.7 8.6 8.4 8.2 7.5 8.5	2,704.4 2,712.9 2,726.4 2,742.7 2,746.6 2,761.3 2,793.3 2,819.0 2,841.0 2,858.1 2,878.1	2,704.4 2,712.9 2,726.4 2,742.7 2,746.6 2,761.3 2,793.3 2,819.0 2,841.0 2,858.1 2,878.1	2,705.2 2,713.9 2,727.2 2,742.8 2,747.3 2,762.3 2,793.4 2,819.1 2,841.0 2,859.1 2,878.4	0.8 1.0 0.8 0.1 0.7 1.0 0.1 0.0 1.0 0.3

¹ Feet above confluence with Santa Clara River

ΤA	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
ᄩ	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: ACTON CANYON

Table 24: Floodway Data, continued

LOCA	TION		FLOODWAY	,	1% ANNU	AL CHANCE FLO ELEVATION (FI	OOD WATER SU EET NAVD88)	RFACE
CROSS SECTION	DISTANCE ²	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A-K ¹	*	*	*	*	*	*	*	*
L	17,397	81	295	10.2	2,291.4	2,291.4	2,292.1	0.7
M	18,414	50	250	12.1	2,347.1	2,347.1	2,347.9	0.8
N	19,336	53	247	12.2	2,367.3	2,367.3	2,367.4	0.1
0	20,524	52	272	11.1	2,426.4	2,426.4	2,427.0	0.6
P	21,149	88	294	10.3	2,464.5	2,464.5	2,465.5	1.0
Q	22,200	130	335	9.0	2,485.0	2,485.0	2,485.8	0.8
R	23,354	154	427	7.1	2,506.0	2,506.0	2,507.0	1.0
S T	24,575	135	366	8.2	2,525.5	2,525.5	2,526.4	0.9
T	25,631	155	357	8.4	2,541.6	2,541.6	2,542.2	0.6
U	26,548	165	406	7.4	2,556.1	2,556.1	2,557.1	1.0
V	27,778	162	387	7.8	2,575.7	2,575.7	2,576.7	1.0
W	29,633	59	268	11.3	2,611.1	2,611.1	2,611.2	0.1
Χ	30,819	234	835	4.4	2,634.9	2,634.9	2,635.1	0.2
Υ	32,155	130	240	7.4	2,660.2	2,660.2	2,660.7	0.5
Z	33,203	100	234	7.6	2,678.3	2,678.3	2,678.9	0.6
AA	34,151	49	177	10.0	2,694.9	2,694.9	2,695.0	0.1
AB	34,954	60	180	9.9	2,711.8	2,711.8	2,711.8	0.0
AC	35,956	105	217	8.1	2,734.8	2,734.8	2,735.7	0.9
AD	36,779	127	238	7.4	2,752.9	2,752.9	2,753.7	0.8
AE	37,903	132	244	7.3	2,779.9	2,779.9	2,780.8	0.9
AF	39,187	113	241	7.3	2,807.7	2,807.7	2,808.1	0.4
AG	40,612	116	246	7.2	2,842.4	2,842.4	2,842.4	0.0
AH	41,244	65	194	9.1	2,859.3	2,859.3	2,860.0	0.7
Al	41,960	90	212	8.4	2,876.0	2,876.0	2,876.5	0.5

¹ Floodway not computed

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LOS ANGELES COUNTY, CALIFORNIA

AND INCORPORATED AREAS

## **FLOODWAY DATA**

FLOODING SOURCE: AGUA DULCE CANYON CREEK

² Feet above confluence with Santa Clara River

Table 24: Floodway Data, continued

LOCA	TION		FLOODWAY		1% ANNU	AL CHANCE FL ELEVATION (FI	OOD WATER SU EET NAVD88)	RFACE
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
ABCDEFGHIJKLMNOPQRSTYVW	1,220 1,410 2,110 2,400 3,020 4,090 4,371 4,476 5,251 8,501 8,871 9,261 9,711 10,191 12,251 12,581 13,291 13,561 13,941 14,381 18,091 18,341 18,611	104 105 310 285 579 ² 257 ² 480 480 140 57 ³ 53 ³ 80 ³ 105 ³ 127 ³ 139 ³ 129 220 220 250 139 115 31	354 342 535 403 596 436 549 3261 391 292 329 372 488 342 549 432 1008 1401 997 333 812 300 272	10.5 10.9 7.0 9.3 6.3 8.6 6.8 1.1 9.5 12.4 11.0 9.8 7.4 9.4 5.8 7.4 3.2 2.3 3.2 7.3 3.0 8.1 9.0	2,744.4 2,745.2 2,756.3 2,760.6 2,768.9 2,785.3 2,800.2 2,801.2 2,803.2 2,859.5 2,869.2 2,875.4 2,879.8 2,886.7 2,905.7 2,907.6 2,914.0 2,914.4 2,914.6 2,914.6 2,914.6 2,914.6 2,928.4 2,928.6 2,931.8	2,744.4 2,745.2 2,756.3 2,760.6 2,768.9 2,785.3 2,800.2 2,801.2 2,803.2 2,859.5 2,869.2 2,875.4 2,879.8 2,886.7 2,905.7 2,907.6 2,914.0 2,914.4 2,914.6 2,914.6 2,916.2 2,928.4 2,928.6 2,931.8	2,744.4 2,745.2 2,756.4 2,761.0 2,768.9 2,785.9 2,800.7 2,801.9 2,803.2 2,859.5 2,869.2 2,875.4 2,880.3 2,886.7 2,905.7 2,907.6 2,914.1 2,914.6 2,914.9 2,916.6 2,928.5 2,928.7 2,931.8	0.0 0.0 0.1 0.4 0.0 0.6 0.5 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0
V	18,341	31	300	8.1	2,928.6	2,928.6	2,928.7	0.1

¹ Feet upstream of Division Street

FEDERA	L EMERG	ENCY MAN	AGEMENT AGENO	Y
LOS AI	NGELES	COUNT	Y, CALIFORN	IA
	AND INC	ORPORATE	ED AREAS	

# **FLOODWAY DATA**

FLOODING SOURCE: ANAVERDE CREEK

² Area of stilling basin – no floodway determined between cross sections ³ Lies entirely outside corporate limits of City of Palmdale

Table 24: Floodway Data, continued

LOCA	TION	FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Α	871	301	1,324	11.9	1,150.7	1,150.7	1,150.7	0.0
В	1,490	180	1,117	14.1	1,150.7	1,150.7 1,157.1	1,150.7	0.0
С		109	· · · · · · · · · · · · · · · · · · ·	16.7	· ·		,	
	2,503	110	940 810	15.4	1,169.7	1,169.7	1,169.7	0.0
D E F	3,450	97	943		1,177.5	1,177.5	1,177.5	0.0
<u> </u>	4,081			13.2	1,185.5	1,185.5	1,185.6	0.1
	4,270	119	1,059	11.7	1,196.1	1,196.1	1,196.1	0.0
G	5,793	154	932	13.4	1,202.5	1,202.5	1,202.5	0.0
H	6,789	140	902	13.8	1,209.2	1,209.2	1,209.2	0.0
ļ.	7,737	96	777	16.0	1,225.3	1,225.3	1,225.4	0.1
J	8,541	119	845	14.7	1,233.9	1,233.9	1,233.9	0.0
K	9,474	93	772	16.1	1,244.0	1,244.0	1,244.0	0.0
L	10,221	117	963	12.9	1,250.3	1,250.3	1,250.3	0.0
М	11,427	116	855	14.5	1,260.5	1,260.5	1,260.5	0.0
N	12,252	117	833	14.9	1,267.7	1,267.7	1,267.7	0.0
Ο	12,804	115	1,062	11.7	1,273.4	1,273.4	1,273.4	0.0
Р	13,543	114	678	13.8	1,288.5	1,288.5	1,288.5	0.0
Q	14,474	118	737	12.7	1,296.7	1,296.7	1,296.7	0.0
R	15,369	113	673	13.9	1,305.2	1,305.2	1,305.2	0.0
S T	16,641	108	665	14.1	1,318.8	1,318.8	1,318.8	0.0
T	17,823	113	679	13.8	1,334.6	1,334.6	1,334.6	0.0
U	19,072	144	642	13.3	1,350.2	1,350.2	1,350.2	0.0
V	19,993	122	758	11.2	1,362.8	1,362.8	1,362.8	0.0
W	20,653	112	634	13.4	1,375.1	1,375.1	1,375.1	0.0
Χ	21,879	260	928	8.9	1,395.5	1,395.6	1,396.5	0.9
Υ	22,833	240	909	9.1	1,411.1	1,411.1	1,411.2	0.1
Ž	23,865	290	1211	6.8	1,423.0	1,423.0	1,424.0	1.0

¹ Feet above confluence with Santa Clara River

ΤA	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
BLE	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: BOUQUET CANYON CREEK

Table 24: Floodway Data, continued

LOCA	TION	FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA AB AC AD AE AF AG AH AI AN AO AP AR	24,681 26,167 27,010 28,175 29,194 30,399 31,621 32,277 32,999 34,455 35,342 36,384 37,073 37,655 38,104 38,991 40,044 41,015	228 230 400 194 144 174 418 400 288 324 376 274 199 406 380 170 136 92	1,060 945 1,202 888 944 834 1,109 1,287 854 830 1,223 958 806 936 1,165 739 440 416	7.8 8.7 6.9 9.3 8.7 9.9 6.9 6.0 9.3 6.3 8.0 9.5 8.2 6.6 10.4 9.5 10.1	1,431.9 1,450.4 1,460.5 1,472.6 1,486.6 1,503.8 1,518.5 1,525.5 1,535.6 1,551.5 1,565.0 1,576.9 1,584.9 1,594.6 1,601.0 1,615.3 1,628.5 1,641.5	1,431.9 1,450.4 1,460.5 1,472.6 1,486.6 1,503.8 1,518.5 1,525.5 1,535.6 1,551.5 1,565.0 1,576.9 1,584.9 1,594.6 1,601.0 1,615.3 1,628.5 1,641.5	1,432.8 1,450.7 1,460.5 1,473.2 1,487.1 1,504.2 1,518.6 1,526.2 1,535.6 1,551.6 1,565.0 1,577.5 1,585.1 1,595.0 1,601.5 1,616.0 1,629.2 1,641.6	0.9 0.3 0.0 0.6 0.5 0.4 0.1 0.7 0.0 0.1 0.0 0.6 0.2 0.4 0.5 0.7 0.7 0.7

¹ Feet above confluence with Santa Clara River

TA	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
ᄩ	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: BOUQUET CANYON CREEK

Table 24: Floodway Data, continued

LOCA				,	1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A B C D E F G H – J K L M N O P Q R S	513 846 1,539 1,877 2,909 3,472 4,373 4,686 5,637 6,249 6,387 6,790 7,305 7,450 7,526 7,746 8,238 8,625 8,772	152 130 134 159 112 171 176 109 125 126 127 105 100 115 72 80 72 154 151	340 331 306 341 294 335 345 315 330 314 284 289 277 348 257 243 249 342 319	7.0 7.2 7.8 7.0 8.1 7.1 6.9 7.6 7.2 7.6 8.4 8.3 8.6 6.9 9.3 9.8 9.6 7.0 7.5	2,717.7 2,722.3 2,731.6 2,737.1 2,752.8 2,761.8 2,776.5 2,783.1 2,802.9 2,816.4 2,820.7 2,827.9 2,838.6 2,841.5 2,846.0 2,848.6 2,861.3 2,869.6 2,872.9	2,717.7 2,722.3 2,731.6 2,737.1 2,752.8 2,761.8 2,776.5 2,783.1 2,802.9 2,816.4 2,820.7 2,827.9 2,838.6 2,841.5 2,846.0 2,848.6 2,848.6 2,861.3 2,869.6 2,872.9	2,718.6 2,722.7 2,731.9 2,737.7 2,753.4 2,762.5 2,777.3 2,784.0 2,803.9 2,816.7 2,821.2 2,828.7 2,839.0 2,842.4 2,846.4 2,846.4 2,849.4 2,861.8 2,870.3 2,873.6	0.9 0.4 0.3 0.6 0.6 0.7 0.8 0.9 1.0 0.3 0.5 0.8 0.4 0.9 0.4 0.9 0.7 0.7

¹ Feet above confluence with Acton Canyon

TA	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
BLE	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: ESCONDIDO CANYON

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A B C D E F G H I J K L M N O	297 595 924 1,081 1,300 1,864 2,839 3,505 4,713 5,470 5,866 6,095 6,422 7,389 7,940	70 43 47 47 59 47 48 48 54 82 86 98 109 244	284 247 260 302 272 249 251 253 252 399 305 309 323 335 450	11.7 13.5 12.8 11.0 12.2 13.4 13.2 13.1 13.2 8.3 10.9 10.8 10.3 9.9 7.4	1,277.8 1,279.7 1,281.0 1,282.8 1,284.3 1,299.8 1,313.1 1,322.7 1,338.7 1,349.6 1,353.5 1,360.0 1,364.4 1,379.9 1,387.4	1,277.8 1,279.7 1,281.0 1,282.8 1,284.3 1,299.8 1,313.1 1,322.7 1,338.7 1,349.6 1,353.5 1,360.0 1,364.4 1,379.9 1,387.4	1,277.8 1,279.7 1,281.1 1,282.8 1,284.3 1,299.8 1,313.1 1,322.7 1,338.7 1,349.6 1,353.5 1,360.0 1,364.4 1,380.0 1,387.4	0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0

¹ Feet above confluence with Bouquet Canyon Creek

T _A	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
BLE	LOS ANGELES COUNTY, CALIFORNIA	1 E G G WAT DATA
24	AND INCORPORATED AREAS	FLOODING SOURCE: HASKELL CANYON

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A B C D E F G H I J K L M N O	257 956 1778 2561 3165 3872 4443 4852 5225 5701 6159 6739 7579 8128 8702	53 46 28 46 59 43 32 41 55 47 34 43 38 13 49	112 90 74 119 78 114 77 97 94 80 81 86 86 61 95	6.6 8.3 10.2 9.3 9.5 10.0 9.6 7.7 7.9 9.3 9.2 8.6 8.7 12.3 7.9	1711.0 1720.4 1735.5 1758.3 1776.4 1797.7 1819.1 1832.3 1848.6 1868.1 1890.4 1917.7 1971.9 2007.4 2055.7	1711.0 1720.4 1735.5 1758.3 1776.4 1797.7 1819.1 1832.3 1848.6 1868.1 1890.4 1917.7 1971.9 2007.4 2055.7	1712.0 1720.4 1735.5 1758.3 1776.4 1797.7 1819.1 1832.8 1848.6 1868.1 1890.4 1917.7 1971.9 2007.5 2055.7	1.0 0.0 0.0 0.0 0.0 0.0 0.5 0.0 0.0 0.0 0

¹ Feet above confluence with Sand Canyon Creek

TA	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
BLE	LOS ANGELES COUNTY, CALIFORNIA	1 20 2 111 11 27 117 1
24	AND INCORPORATED AREAS	FLOODING SOURCE: IRON CANYON

Table 24: Floodway Data, continued

LOCA	LOCATION		FLOODWAY			AL CHANCE FLO ELEVATION (FI	OOD WATER SU EET NAVD88)	RFACE
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
А	650	100	149	7.23	1,150.8	1,150.8	1,150.8	0.0

¹ Feet upstream of Northwest Edge of Osborne Street

ΤA	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	LOS ANGELES COUNTY, CALIFORNIA	1 20 0 2 11111
24	AND INCORPORATED AREAS	FLOODING SOURCE: KAGEL CANYON

Table 24: Floodway Data, continued

1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)				FLOODWAY			LOCATION	
INCREAS	WITH FLOODWAY	WITHOUT FLOODWAY	REGULATORY	MEAN VELOCITY (FEET/SEC)	SECTION AREA (SQ. FEET)	WIDTH (FEET)	DISTANCE ¹	CROSS SECTION
*	*	1,431.3	1,431.3	*	*	*	2	$A^2$
*	*	1,433.1	1,433.1	*	*	*	272	B ²
*	*	1,433.7	1,433.7	*	*	*	501	$C^2$
*	*	1,435.1	1,435.7	*	*	*	808	$D^2$
*	*	1,438.2	1,438.2	*	*	*	946	E ²
*	*	1,456.3	1,456.3	*	*	*	1,839	F ²
0.4	1,505.7	1,505.3	1,505.3	4.8	1,230	691	4,675	Ġ
0.5	1,521.2	1,520.7	1,520.7	5.8	1,005	489	5,701	H
0.3	1,538.9	1,538.6	1,538.6	5.8	1,006	352	6,829	I
0.2	1,547.3	1,547.1	1,547.1	6.4	921	336	7,415	J
0.7	1,563.2	1,562.5	1,562.5	7.1	825	249	8,436	K
1.0	1,583.3	1,582.3	1,582.3	6.2	944	425	9,788	L
0.3	1,598.8	1,598.5	1,598.5	6.8	859	295	10,896	M
0.2	1,620.9	1,620.7	1,620.7	11.2	521	254	12,426	N
0.0	1,642.4	1,642.4	1,642.4	6.8	859	292	13,605	0
0.0	1,662.7	1,662.7	1,662.7	7.4	782	252	15,063	Р
0.7	1,685.8	1,685.1	1,685.1	12.2	475	68	16,579	Q
0.5	1,709.7	1,709.2	1,709.2	6.3	928	211	18,221	R
0.2	1,724.9	1,724.7	1,724.7	4.6	1,265	572	19,139	S
0.4	1,732.6	1,732.2	1,732.2	6.7	786	295	19,660	T
0.5	1,748.9	1,748.4	1,748.4	5.1	1,040	426	20,687	U
0.4	1,765.0	1,764.6	1,764.6	6.6	798	309	21,586	V
0.1	1,782.5	1,782.4	1,782.4	11.2	472	88	22,614	W
0.8	1,796.8	1,796.0	1,796.0	5.4	978	230	23,495	X
0.5	1,813.0	1,812.5	1,812.5	6.3	842	232	24,530	Υ
0.3	1,826.1	1,825.8	1,825.8	8.4	630	219	25,461	Z

¹ Feet above Santa Clara River Trail

LOS ANGELES COUNTY, CALIFORNIA

AND INCORPORATED AREAS

# **FLOODWAY DATA**

FLOODING SOURCE: MINT CANYON CREEK

² Floodway not computed

Table 24: Floodway Data, continued

1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)				FLOODWAY			LOCATION	
INCREAS	WITH FLOODWAY	WITHOUT FLOODWAY	REGULATORY	MEAN VELOCITY (FEET/SEC)	SECTION AREA (SQ. FEET)	WIDTH (FEET)	DISTANCE ¹	CROSS SECTION
0.6	1,839.7	1,839.1	1,839.1	5.7	923	245	26,219	AA
0.0	1,852.6	1,852.6	1,852.6	8.3	640	366	27,123	AB
0.6	1,865.4	1,864.8	1,864.8	6.7	788	186	27,895	AC
0.0	1,877.5	1,876.6	1,876.6	7.9	673	164	28,728	AD
0.3	1,890.3	1,890.1	1,890.1	7.9 7.9	665	219	29,364	AE
0.8	1,903.5	1,902.7	1,902.7	7.9 7.1	748	200	30,207	AF
0.0	1,920.4	1,919.7	1,919.7	5.4	975	165	31,208	AG
0.3	1,929.5	1,929.2	1,929.2	7.2	735	214	31,881	AH
0.4	1,939.3	1,938.9	1,938.9	6.8	782	228	32,486	Al
0.9	1,950.2	1,949.3	1,949.3	7.9	667	230	33,030	AJ
0.2	1,963.7	1,963.5	1,963.5	7.9	667	171	34,049	AK
0.0	1,973.7	1,973.7	1,973.7	8.9	597	130	34,594	AL
0.5	1,990.0	1,989.5	1,989.5	10.0	498	90	35,535	AM
0.4	2,004.0	2,003.6	2,003.6	6.0	839	178	36,291	AN
0.6	2,012.7	2,012.1	2,012.1	7.4	680	125	36,935	AO
0.5	2,021.8	2,021.3	2,021.3	9.7	516	104	37,602	AP
0.6	2,033.7	2,033.1	2,033.1	6.8	740	154	38,045	AQ
0.6	2,043.6	2,043.0	2,043.0	7.3	682	137	38,754	AR
0.0	2,051.1	2,051.1	2,051.1	6.8	731	172	39,359	AS
0.5	2,060.5	2,060.2	2,060.2	6.7	751	170	39,810	AT
0.4	2,073.3	2,072.9	2,072.9	6.4	781	187	40,641	AU
0.3	2,083.4	2,083.1	2,083.1	8.1	620	272	41,282	AV
0.0	2,093.5	2,093.5	2,093.5	12.3	405	84	41,971	AW
0.8	2,106.1	2,105.3	2,105.3	5.3	945	173	42,537	AX
0.4	2,125.3	2,124.9	2,124.9	8.7	393	130	43,471	AY
1.0	2,137.0	2,136.0	2,136.0	6.7	515	131	44,161	AZ

¹ Feet above Santa Clara River Trail

ΤA	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
ᄩ	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: MINT CANYON CREEK

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BA	44,692	117	485	7.1	2,146.4	2,146.4	2,147.4	1.0
BB	45,225	129	518	6.6	2,156.7	2,156.7	2,157.3	0.6
ВС	45,689	130	457	7.5	2,166.2	2,166.2	2,166.7	0.5
BD	46,421	154	321	10.7	2,179.5	2,179.5	2,180.2	0.7
BE	46,904	208	458	7.5	2,191.4	2,191.4	2,191.7	0.3
BF	47,652	107	420	8.2	2,211.2	2,211.2	2,211.5	0.3
BG	48,150	58	281	12.2	2,229.7	2,229.7	2,229.9	0.2
BH	48,989	83	336	10.2	2,277.9	2,277.9	2,278.1	0.2
BI	49,514	149	334	10.3	2,298.2	2,298.2	2,298.2	0.0
BJ	50,209	186	516	6.7	2,318.3	2,318.3	2,318.4	0.1
BK	51,190	229	485	7.1	2,341.9	2,341.9	2,341.9	0.0
BL	52,132	120	497	6.9	2,362.7	2,362.7	2,363.2	0.5
BM	52,904	118	295	6.2	2,381.5	2,381.5	2,381.9	0.4
BN	53,789	112	291	6.3	2,401.3	2,401.3	2,402.1	0.8
ВО	54,682	104	269	6.8	2,420.8	2,420.8	2,421.3	0.5
BP	55,746	63	196	9.3	2,441.0	2,441.0	2,441.2	0.2
BQ	56,695	122	320	5.7	2,463.2	2,463.2	2,463.7	0.5
BR	57,506	140	320	5.7	2,481.9	2,481.9	2,482.2	0.3
BS	58,695	286	538	3.4	2,510.4	2,510.4	2,510.7	0.3
BT	59,915	211	396	4.6	2,540.7	2,540.7	2,540.8	0.1
BU	61,144	205	413	4.5	2,573.5	2,573.5	2,573.8	0.3
BV	62,387	257	339	5.4	2,606.7	2,606.7	2,607.7	1.0
BW	63,160	166	382	4.8	2,628.0	2,628.0	2,628.1	0.1

¹ Feet above Santa Clara River Trail

TAB	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
l E	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: MINT CANYON CREEK

Table 24: Floodway Data, continued

LOCA	ATION		FLOODWAY	•	1% ANNU	AL CHANCE FL ELEVATION (FI	OOD WATER SU EET NAVD88)	RFACE
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Α	84	307	1,178	7.0	1,199.0	1,199.0	1,199.0	0.0
В	628	177	774	10.7	1,203.3	1,203.3	1,203.3	0.0
C	1,377	104	722	10.4	1,212.0	1,212.0	1,212.0	0.0
	1,905	87	614	6.4	1,215.6	1,215.6	1,215.7	0.1
D E F	2,122	61	398	9.8	1,216.0	1,216.0	1,216.2	0.2
F	2,912	36	259	15.1	1,223.1	1,223.1	1,223.1	0.0
G	3,632	33	250	15.7	1,234.0	1,234.0	1,234.1	0.1
H	4,418	34	251	15.6	1,242.8	1,242.8	1,242.8	0.0
ï	4,826	41	268	14.6	1,247.1	1,247.1	1,247.2	0.1
J	5,238	167	725	5.4	1,257.0	1,257.0	1,257.0	0.0
K	5,553	74	326	12.0	1,260.5	1,260.5	1,260.5	0.0
L	6,041	57	410	9.6	1,266.6	1,266.6	1,266.9	0.3
M	6,159	51	376	10.4	1,267.4	1,267.4	1,268.1	0.7
N	6,245	68	507	7.7	1,269.0	1,269.0	1,269.5	0.5
Ο	7,070	117	527	7.9	1,275.9	1,275.9	1,276.8	0.9
Р	7,312	154	760	6.1	1,278.5	1,278.5	1,278.7	0.2
Q	7,674	77	371	12.5	1,280.6	1,280.6	1,280.6	0.0
R	8,243	122	681	6.8	1,286.7	1,286.7	1,286.8	0.1
S T	8,929	149	581	7.0	1,292.1	1,292.1	1,292.1	0.0
Т	9,942	98	352	10.8	1,301.3	1,301.3	1,301.3	0.0
U	10,582	79	353	10.3	1,309.1	1,309.1	1,309.3	0.2
V	11,018	91	422	8.6	1,314.9	1,314.9	1,314.9	0.0
W	11,406	138	565	6.4	1,318.4	1,318.4	1,318.5	0.1
X	11,603	97	341	10.7	1,320.2	1,320.2	1,320.2	0.0
Υ	11,731	92	442	8.2	1,322.5	1,322.5	1,322.6	0.1
Z	12,197	92	543	6.7	1,328.4	1,328.4	1,328.4	0.0

¹ Feet upstream of Wiley Canyon Road

ΤA	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
ᄩ	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: NEWHALL CREEK

Table 24: Floodway Data, continued

LOCAT	ΓΙΟΝ	FLOODWAY				AL CHANCE FLO	OOD WATER SU EET NAVD88)	RFACE
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA AB AC AD AE AF AG AH	12598 13220 13468 14017 14377 15211 *	94 82 53 198 148 55 *	357 362 273 532 337 293 * *	10.2 10.0 13.3 6.8 8.3 12.4 *	1,330.6 1,339.0 1,343.5 1,353.2 1,360.2 1,372.6 *	1,330.6 1,339.0 1,343.5 1,353.2 1,360.2 1,372.6 *	1,330.7 1,339.0 1,343.5 1,353.2 1,360.2 1,372.9	0.1 0.0 0.0 0.0 0.0 0.3 *

¹ Feet upstream of Wiley Canyon Road * Floodway not computed

ΤA	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
BLE	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: NEWHALL CREEK

Table 24: Floodway Data, continued

LOCA	TION		FLOODWAY	,	1% ANNU	AL CHANCE FL ELEVATION (FI	OOD WATER SU EET NAVD88)	RFACE
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A B C D E F G H	122 526 1,295 2,286 2,837 3,556 3,937 4,415	* * * * * * * *	* * * * * * * *	*     *     *     *     *     *     *     *     *	1,206.4 1,210.3 1,211.9 1,218.5 1,223.6 1,231.5 1,235.9 1,240.5	1,206.4 1,210.3 1,211.9 1,218.5 1,223.6 1,231.5 1,235.9 1,240.5	*     *     *     *     *     *     *     *     *     *     *     *	* * * * * * * * *

¹ Feet above confluence with Newhall Creek

FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CALIFORNIA
AND INCORPORATED AREAS

## **FLOODWAY DATA**

FLOODING SOURCE: NEWHALL CREEK LEFT OVERBANK 2

^{*}Floodway not computed

Table 24: Floodway Data, continued

LOCA	TION	FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A B C D E F	123 288 443 700 917 1,051	56 55 70 59 33 32	152 113 159 117 6 12	4.5 6.0 4.3 5.9 2.6 1.3	1,357.2 1,357.6 1,358.8 1,363.6 1,370.1 1,371.2	1,357.2 1,357.6 1,358.8 1,363.6 1,370.1 1,371.2	1,357.4 1,357.7 1,359.7 1,364.6 1,370.2 1,371.2	0.2 0.1 0.9 1.0 0.1 0.0

¹ Feet above confluence with Newhall Creek

TAI	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
ᄩ	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: NEWHALL CREEK RIGHT OVERBANK 1

Table 24: Floodway Data, continued

LOCA	TION	FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
ABCDEFGHIJKLMNOPQR	352 611 1,413 2,634 3,706 4,974 5,930 6,822 7,977 9,595 11,004 12,370 14,059 16,019 17,684 19,620 21,494 23,727	106 336 190 89 48 97 355 62 221 190 190 75 258 100 59 212 181 102	441 1,779 533 480 317 369 731 311 552 575 606 344 736 526 326 534 447 341	9.3 2.3 7.7 8.6 13.0 11.1 5.6 13.2 7.4 7.1 6.8 12.0 5.6 7.0 11.4 6.9 7.1 8.5	1,214.5 1,219.3 1,224.8 1,241.4 1,252.0 1,268.8 1,283.1 1,292.4 1,308.5 1,330.3 1,349.4 1,364.4 1,386.2 1,415.3 1,443.4 1,470.3 1,498.5 1,541.6	1,214.5 1,219.2 1,224.8 1,241.4 1,252.0 1,268.8 1,283.1 1,292.4 1,308.5 1,330.3 1,349.4 1,364.4 1,386.2 1,415.3 1,443.4 1,470.3 1,498.5 1,541.6	1214.5 1,219.6 1,225.0 1,241.7 1,252.5 1,269.2 1,283.4 1,292.9 1,308.6 1,330.6 1,349.6 1,364.4 1,387.0 1,415.3 1,443.4 1,470.3 1,498.5 1,541.7	0.0 0.4 0.2 0.3 0.5 0.4 0.3 0.5 0.1 0.3 0.2 0.0 0.8 0.0 0.0 0.0 0.0

¹ Feet above confluence with Newhall Creek

TAB	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
Ē	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: PLACERITA CREEK

Table 24: Floodway Data, continued

LOCA	TION	FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A B C D E F G H	1,640 2,489 3,332 4,157 5,089 6,266 7,061 7,750	48 249 41 24 29 30 42 22	147 185 129 57 89 93 64 63	5.8 4.2 6.1 8.2 5.3 4.4 6.4 6.4	1,290.0 1,299.8 1,309.1 1,319.3 1,331.1 1,349.0 1,370.5 1,393.9	1290.0 1,299.8 1,309.1 1,319.3 1,331.1 1,349.0 1,370.5 1,393.9	1290.0 1,300.2 1,309.2 1,319.3 1,331.2 1,349.1 1,370.5 1,393.9	0.0 0.4 0.1 0.0 0.1 0.1 0.0 0.0

¹ Feet above confluence with Placerita Creek

TAB	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
E	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: QUIGLEY CANYON CREEK

Table 24: Floodway Data, continued

LOCA	ΓΙΟΝ	FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A B C D E F G H I	192 378 584 934 1,082 1,280 1,491 1,858 1,920	27 18 23 21 19 27 25 14 30	30 31 37 26 25 36 27 25 766	5.4 5.3 4.4 6.3 6.5 4.5 6.0 6.4 1.3	1,305.2 1,307.7 1,310.3 1,316.3 1,321.4 1,325.4 1,329.3 1,338.0 1,342.7	1,304.3 ² 1,307.7 1,310.3 1,316.3 1,321.4 1,325.4 1,329.3 1,338.0 1,342.7	1,304.3 ² 1,307.8 1,310.3 1,316.3 1,321.4 1,325.5 1,329.3 1,338.0 1,343.6	0.0 0.1 0.0 0.0 0.0 0.1 0.0 0.0 0.9

¹ Feet above confluence with Newhall Creek

² Elevation computed without consideration of backwater effects from Newhall Creek

ΑT	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
BLE.	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: RAILROAD CANYON

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			RFACE
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A B C D E F	4,164 4,780 5,400 6,130 7,350 8,220	60 120 150 65 29 49	216 243 149 230 180 141	9.63 8.29 7.23 7.97 9.81 12.01	192.8 204.8 219.8 235.6 259.2 281.6	192.8 204.8 219.8 235.6 259.2 281.6	192.8 204.8 219.8 235.6 259.2 281.6	0.0 0.0 0.0 0.0 0.0 0.0

¹ Feet upstream of Latimer Road

ΤA	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
BLE	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: RUSTIC CANYON

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Α	1,934	340	1,448	9.6	1,098.6	1,098.6	1,098.7	0.1
В	3,117	350	1,789	7.8	1,107.7	1,107.7	1,108.4	0.7
C	4,384	357	1,768	7.8	1,116.9	1,116.9	1,117.6	0.7
Ď	5,120	289	1,512	9.2	1,122.0	1,122.0	1,122.4	0.4
F	6,394	427	2,167	6.4	1,130.4	1,130.4	1,131.4	1.0
E F	8,073	399	1,619	8.6	1,142.6	1,142.6	1,143.3	0.7
Ġ	9,287	516	2,048	6.8	1,152.1	1,152.1	1,153.1	1.0
H	10,311	458	1,926	7.2	1,161.7	1,161.7	1,162.7	1.0
Ĭ	11,520	404	1,927	7.2	1,173.5	1,173.5	1,174.2	0.7
J	12,493	453	1,653	8.4	1,181.9	1,181.9	1,182.8	0.9
K	13,454	540	1,610	8.6	1,191.2	1,191.2	1,191.9	0.7
Ĺ	14,599	320	1,423	9.7	1,203.6	1,203.6	1,204.1	0.5
M	15,377	418	1,527	9.1	1,210.5	1,210.5	1,210.9	0.4
N	16,188	464	1,448	9.6	1,217.1	1,217.1	1,218.0	0.9
Ο	17,436	999	2,045	6.8	1,227.4	1,227.4	1,228.3	0.9
Р	18,479	1370	1,912	7.3	1,236.8	1,236.8	1,237.7	0.9
Q	19,600	1040	2,341	5.9	1,246.8	1,246.8	1,247.8	1.0
R	20,565	568	1,877	7.4	1,255.1	1,255.1	1,255.1	0.0
S T	21,597	394	1,756	7.9	1,263.5	1,263.5	1,263.9	0.4
Т	22,786	358	1,529	9.1	1,272.0	1,272.0	1,272.9	0.9
U	23,914	325	1,353	10.2	1,284.1	1,284.1	1,284.2	0.1
V	24,847	296	1,282	10.8	1,290.6	1,290.6	1,290.7	0.1
W	25,760	327	1,427	9.7	1,298.2	1,298.2	1,298.7	0.5
X	26,451	343	1,618	8.6	1,304.4	1,304.4	1,305.2	0.8
Υ	27,442	424	1,690	8.2	1,314.8	1,314.8	1,315.7	0.9
Z	28,589	273	1,466	9.5	1,326.2	1,326.2	1,327.0	0.8

¹ Feet above confluence with Santa Clara River

АТ	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
BLE	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: SAN FRANCISQUITO CANYON CREEK

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASI
Α	949	246	549	6.7	1543.7	1543.7	1544.7	1.0
В	1465	196	453	8.1	1551.9	1551.9	1552.6	0.7
C	2294	581	783	4.7	1567.6	1567.6	1567.8	0.2
D	3063	460	740	5.0	1581.3	1581.3	1582.3	1.0
F	3948	368	680	5.4	1596.5	1596.5	1597.1	0.6
E F	4656	145	418	8.3	1610.2	1610.2	1610.2	0.0
G	5277	73	282	12.4	1620.0	1620.0	1620.0	0.0
H	5930	82	307	11.3	1629.8	1629.8	1629.8	0.0
ı	6933	87	275	12.6	1644.7	1644.7	1644.7	0.0
J	8100	72	278	12.5	1667.8	1667.8	1667.8	0.0
K	9019	56	452	13.1	1689.2	1689.2	1689.2	0.0
L	9698	94	273	12.8	1702.6	1702.6	1702.6	0.0
M	10480	92	337	7.3	1720.7	1720.7	1720.7	0.0
N	11635	56	215	11.5	1743.0	1743.0	1743.0	0.0
0	12694	60	222	11.1	1766.7	1766.7	1766.8	0.1
Р	13586	106	243	9.6	1788.6	1788.6	1788.6	0.0
Q	14867	60	196	12.0	1818.6	1818.6	1818.6	0.0
R	15913	68	185	11.6	1838.7	1838.7	1838.7	0.0
S	17026	81	195	11.1	1865.8	1865.8	1865.8	0.0
T	17567	61	207	10.4	1889.6	1889.6	1889.6	0.0
U	18213	61	159	10.0	1904.2	1904.2	1904.2	0.0
V	19154	44	151	10.5	1928.5	1928.5	1929.1	0.6

¹ Feet above confluence with Santa Clara River

FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CALIFORNIA

AND INCORPORATED AREAS

FLOODING SOURCE: SAND CANYON CREEK

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASI
Α	207,726	1223	5,733	11.6	833.0	833.0	833.2	0.2
В	209,501	959	6,793	9.8	844.0	844.0	844.0	0.0
C	210,587	1348	7,091	9.4	848.7	848.7	848.7	0.0
D	212,272	1240	7,166	9.3	857.3	857.3	857.7	0.4
Ē	213,280	1050	7,642	8.7	864.5	864.5	865.2	0.7
F	214,526	665	5,083	13.1	870.4	870.4	871.0	0.6
G	215,675	671	7,005	9.5	879.5	879.5	879.8	0.3
H	217,269	1097	6,533	10.2	883.9	883.9	884.2	0.3
ï	218,493	778	5,349	12.5	889.9	889.9	890.2	0.3
j	220,308	660	4,739	14.1	900.1	900.1	900.1	0.0
K	222,073	813	5,560	12.0	911.3	911.3	911.5	0.2
Ĺ	223,286	831	7,473	8.9	916.9	916.9	917.4	0.5
M	224,864	846	6,321	10.5	925.7	925.7	925.7	0.0
N	226,652	497	4,705	14.2	934.6	934.6	934.6	0.0
0	227,982	696	9,195	7.2	946.5	946.5	946.5	0.0
Р	230,167	1206	7,808	8.5	949.3	949.3	949.4	0.1
Q	231,459	677	3,948	12.8	957.2	957.2	957.5	0.3
R	233,694	1080	5,054	10.0	969.3	969.3	970.1	0.8
S	235,405	1011	5,477	9.2	980.6	980.6	980.9	0.3
T	237,277	531	3,893	12.9	990.3	990.3	990.5	0.2
U	238,750	695	4,944	10.2	998.0	998.0	998.1	0.1
V	240,838	791	5,361	9.4	1,007.9	1,007.9	1, 008.0	0.1
W	243,054	618	4,075	12.3	1,020.7	1,020.7	1,020.9	0.2
Χ	244,918	512	5,206	9.7	1,033.9	1,033.9	1,034.1	0.2
Υ	246,184	305	2,893	17.4	1,044.6	1,044.6	1,044.6	0.0
Z	247,789	384	4,945	10.1	1,056.4	1,056.4	1,056.4	0.0

¹ Feet above mouth at Pacific Ocean

FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
LOS ANGELES COUNTY, CALIFORNIA	
AND INCORPORATED AREAS	FLOODING SOURCE: SANTA CLARA RIVER

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	249,448	326	3,061	16.3	1,066.0	1,066.0	1,066.4	0.4
AB	250,339	361	6,593	7.6	1,078.1	1,078.1	1,078.1	0.0
AC	256,333	984	6,695	7.5	1,081.3	1,070.1	1,081.3	0.0
AD	255,132	785	5,243	7.9	1,096.4	1,096.4	1,096.6	0.0
AE	256,422	703 721	4,516	9.2	1,105.3	1,105.3	1,105.3	0.0
AF	257,835	1181	6,208	6.7	1,111.9	1,111.9	1,111.9	0.0
AG	259,228	451	2,586	13.1	1,122.8	1,122.8	1,123.0	0.2
AH	260,732	540	2,808	12.1	1,135.4	1,135.4	1,135.4	0.0
Al	262,728	653	2,569	10.2	1,152.0	1,152.0	1,152.0	0.0
AJ	263,987	678	4,649	5.6	1,165.9	1,165.9	1,165.9	0.0
AK	265,479	645	2,413	10.9	1,175.3	1,175.3	1,175.7	0.4
AL	267,152	627	2,651	9.9	1,190.5	1,190.5	1,190.6	0.1
AM	269,009	922	2,779	9.4	1,205.4	1,205.4	1,205.4	0.0
AN	270,595	809	3,108	8.4	1,220.9	1,220.9	1,220.9	0.0
AO	272,264	787	3,303	7.9	1,233.7	1,233.7	1,234.1	0.4
AP	274,071	1274	3,070	8.5	1,249.0	1,249.0	1,249.1	0.1
AQ	276,329	674	3,322	7.9	1,269.8	1,269.8	1,270.5	0.7
AR	277,377	473	3,050	8.6	1,281.7	1,281.7	1,281.7	0.0
AS	279,107	399	2,332	11.2	1,293.4	1,293.4	1,293.9	0.5
AT	280,495	436	2,341	11.2	1,304.2	1,304.2	1,304.7	0.5
AU	282,032	535	2,718	9.6	1,316.5	1,316.5	1,316.5	0.0
AV	283,613	616	2,357	11.0	1,328.6	1,328.6	1,328.6	0.0
AW	284,515	893	3,031	8.6	1,336.4	1,336.4	1,336.5	0.1
AX	285,935	869	2,893	9.0	1,349.2	1,349.2	1,349.2	0.0
AY	287,582	677	3,451	7.5	1,365.0	1,365.0	1,365.1	0.1
AZ	289,667	522	2,233	11.6	1,382.2	1,382.2	1,383.0	0.8

¹ Feet above mouth at Pacific Ocean

<b>⊼</b>	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: SANTA CLARA RIVER

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
ВА	291,158	615	2,345	11.1	1,396.0	1,396.0	1,396.0	0.0
BB	292,356	459	2,125	12.2	1,407.0	1,407.0	1,407.1	0.1
BC	294,327	464	2,306	11.2	1,425.3	1,425.3	1,425.4	0.1
BD	296,017	541	2,044	10.6	1,439.8	1,439.8	1,439.9	0.1
BE	298,582	592	2,431	8.9	1,465.2	1,465.2	1,465.2	0.0
BF	300,339	832	2,096	10.4	1,484.3	1,484.3	1,484.4	0.1
BG	302,539	728	2,095	10.4	1,506.3	1,506.3	1,506.3	0.0
BH	303,917	375	2,727	8.0	1,518.2	1,518.2	1,518.2	0.0
BI	305,997	363	1,646	11.9	1,536.9	1,536.9	1,536.9	0.0
BJ	307,229	457	1,722	11.3	1,547.8	1,547.8	1,548.0	0.2
BK	308,499	294	1,886	10.3	1,558.3	1,558.3	1,559.3	1.0
BL	309,701	450	1,568	12.4	1,572.0	1,572.0	1,572.0	0.0
BM	310,789	179	1,907	10.2	1,579.5	1,579.5	1,580.5	1.0
BN	311,968	495	1,286	15.2	1,590.4	1,590.4	1,590.5	0.1
ВО	313,366	472	3,691	5.3	1,598.9	1,598.9	1,599.3	0.4
BP	314,917	345	2,826	6.9	1,604.2	1,604.2	1,605.1	0.9
BQ	316,595	98	1,570	11.9	1,612.9	1,612.9	1,613.6	0.7
BR	317,637	251	1,033	18.1	1,624.9	1,624.9	1,625.0	0.1
BS	318,765	305	2,121	8.8	1,631.6	1,631.6	1,632.5	0.9
BT	320,949	399	2,622	7.1	1,667.5	1,667.5	1,668.2	0.7
BU	322,310	157	1,725	10.9	1,674.1	1,674.1	1,675.0	0.9
BV	323,563	356	1,133	15.1	1,692.1	1,692.1	1,692.1	0.0
BW	324,830	166	1,513	11.3	1,705.8	1,705.8	1,706.0	0.2
BX	325,864	90	1,277	14.7	1,722.8	1,722.8	1,723.0	0.2
BY	327,062	191	995	18.8	1,742.3	1,742.3	1,742.4	0.1
BZ	327,955		1,738	10.8	1,754.5	1,754.5	1,754.7	0.2

¹ Feet above mouth at Pacific Ocean

TA	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: SANTA CLARA RIVER

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASI
CA	384,541	194	1,137	8.5	2,513.1	2,513.1	2,513.1	0.0
CB	385,337	181	1,067	9.0	2,524.6	2,524.6	2,525.4	0.8
CC	385,939	140	820	11.7	2,535.8	2,535.8	2,535.8	0.0
CD	386,895	191	938	10.2	2,551.0	2,551.0	2,551.0	0.0
CE	387,619	119	706	13.6	2,561.9	2,561.9	2,561.9	0.0
CF	388,131	162	1,097	6.8	2,572.6	2,572.6	2,573.4	0.8
CG	389,210	172	677	11.0	2,590.3	2,590.3	2,590.3	0.0
CH	389,523	116	592	12.6	2,595.0	2,595.0	2,595.6	0.6
CI	389,943	141	669	11.1	2,610.1	2,610.1	2,611.0	0.9
CJ	390,256	138	624	11.9	2,615.3	2,615.3	2,616.0	0.7
CK	390,918	358	1,061	7.0	2,623.3	2,623.3	2,624.3	1.0
CL	392,093	181	699	10.6	2,641.4	2,641.4	2,642.1	0.7
CM	392,901	159	699	10.7	2,652.7	2,652.7	2,653.0	0.3
CN	393,451	347	1,350	5.5	2,662.0	2,662.0	2,662.5	0.5
CO	393,519	257	809	9.2	2,662.0	2,662.0	2,662.9	0.9
CP	394,929	236	779	9.6	2,680.6	2,680.6	2,681.1	0.5
CQ	395,864	140	633	11.8	2,692.5	2,692.5	2,693.5	1.0
CR	397,082	232	578	9.0	2,709.8	2,709.8	2,710.6	0.8
CS	398,092	331	649	8.0	2,724.2	2,724.2	2,724.7	0.5
CT	399,243	226	584	8.9	2,739.7	2,739.7	2,739.8	0.1
CU	400,786	365	687	7.6	2,757.4	2,757.4	2,757.4	0.0
CV	402,290	190	545	9.6	2,776.0	2,776.0	2,776.1	0.1
CW	403,917	270	606	8.6	2,795.5	2,795.5	2,795.6	0.1
CX	405,540	115	459	11.4	2,813.8	2,813.8	2,813.8	0.0
CY	407,100	155	509	10.2	2,833.0	2,833.0	2,833.0	0.0

¹ Feet above mouth at Pacific Ocean

TABL	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
Ш	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: SANTA CLARA RIVER

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASI
Α	1,989	173	1,164	9.3	1,117.2	1,117.2	1,117.3	0.1
В	3,414	131	1,200	9.0	1,123.4	1,123.4	1,124.3	0.1
C	3,965	340	2,192	5.0	1,136.5	1,125.4	1,136.5	0.9
	5,419	195	1,072	10.1	1,141.4	1,141.4	1,141.9	0.0
D E F	6,347	246	1,490	7.3	1,146.1	1,146.1	1,147.0	0.9
E	6,908	261	1,433	7.6	1,157.5	1,157.5	1,158.4	0.9
Ğ	7,501	183	1,417	7.0 7.7	1,159.1	1,159.1	1,160.0	0.9
Н	8,048	261	1,234	8.8	1,163.6	1,163.6	1,164.3	0.7
11	8,552	301	1,618	6.7	1,167.1	1,167.1	1,167.8	0.7
J	9,322	343	1,615	6.7	1,172.3	1,172.3	1,173.1	0.7
K	10,714	323	1,548	7.0	1,172.3	1,172.3	1,180.8	0.8
IX I	12,067	270	1,339	8.1	1,188.3	1,188.3	1,189.0	0.6
M	13,086	324	1,376	7.9	1,194.7	1,194.7	1,195.6	0.7
N	14,803	204	762	11.0	1,194.7	1,194.7	1,193.0	0.9
O	15,283	337	2,167	3.9	1,207.8	1,207.8	1,207.7	1.0
P	16,329	153	1,337	6.3	1,218.1	1,218.1	1,218.9	0.8
		143	698	6.3 7.7				0.6
Q D	17,384 17,857	143	816	6.6	1,221.7	1,221.7	1,221.8 1,225.7	0.1
r.	· ·				1,225.6	1,225.6		0.1
Q R S T	18,498 19,838	142 145	573 931	9.4 5.8	1,227.9	1,227.9	1,228.1 1,237.2	0.2
U	20,725	145 32	323	5.8 16.7	1,237.1	1,237.1		0.1
V	· ·	32 32			1,247.4	1,247.4	1,247.4	
	21,505		387	14.0	1,255.2	1,255.2	1,255.2	0.0
W	21,923	31	367	14.7	1,257.9	1,257.9	1,257.9	0.0

¹ Feet above confluence with Santa Clara River

TAI	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
BLE	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: SOUTH FORK SANTA CLARA RIVER

Table 24: Floodway Data, continued

LOCAT	LOCATION		FLOODWAY			AL CHANCE FLO	OOD WATER SU EET NAVD88)	RFACE
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A B C D E F G	568 992 1,630 2,039 3,144 4,041 4,372	58 56 49 55 57 54 140	317 356 254 267 220 218 305	7.8 6.9 9.7 9.3 11.2 11.3 8.1	1,219.9 1,222.9 1,225.7 1,229.4 1,238.4 1,246.7 1,255.0	1,219.9 1,222.9 1,225.7 1,229.4 1,238.4 1,246.7 1,255.0	1,219.9 1,223.1 1,225.7 1,229.4 1,238.4 1,246.7 1,255.0	0.0 0.2 0.0 0.0 0.0 0.0

¹ Feet above confluence with South Fork Santa Clara River

TA	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	LOS ANGELES COUNTY, CALIFORNIA	FLOODING SOURCE: SOUTH FORK
24	AND INCORPORATED AREAS	SANTA CLARA RIVER TRIBUTARY

Table 24: Floodway Data, continued

LOCATION					1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Α	477	98	228	9.0	2,358.5	2,358.5	2,359.5	1.0
В	1,058	222	281	4.9	2,373.2	2,373.2	2,373.7	0.5
С	1,669	148	273	5.0	2,386.6	2,386.6	2,387.5	0.9
	2,285	117	245	5.6	2,400.9	2,400.9	2,401.5	0.6
D E F	2,772	112	232	5.9	2,412.4	2,412.4	2,413.2	0.8
F	3,319	88	227	6.0	2,427.5	2,427.5	2,427.7	0.2
G	4,019	169	292	4.7	2,443.2	2,443.2	2,444.1	0.9
Н	4,644	136	240	5.7	2,459.6	2,459.6	2,460.1	0.5
I	5,206	134	287	4.8	2,473.7	2,473.7	2,473.9	0.2
J	5,805	129	249	5.5	2,489.2	2,489.2	2,489.2	0.0
K	6,419	97	252	5.4	2,503.7	2,503.7	2,503.9	0.2
L	6,953	66	249	5.5	2,517.6	2,517.6	2,518.5	0.9
M	7,433	53	178	7.7	2,529.1	2,529.1	2,529.5	0.4
N	8,025	63	254	5.4	2,544.7	2,544.7	2,545.6	0.9
0	8,650	56	148	9.2	2,563.0	2,563.0	2,563.8	0.8
Р	9,302	58	194	5.8	2,582.8	2,582.8	2,583.2	0.4
Q	9,922	39	115	9.7	2,600.0	2,600.0	2,600.0	0.0
R	10,602	60	132	8.5	2,622.0	2,622.0	2,622.1	0.1
S	11,249	68	160	7.0	2,642.8	2,642.8	2,642.9	0.1
T	11,911	57	167	6.7	2,666.4	2,666.4	2,667.1	0.7
U	12,384	53	159	7.0	2,682.9	2,682.9	2,683.9	1.0
V	13,136	107	153	7.3	2,713.5	2,713.5	2,714.5	1.0
W	13,907	49	132	8.5	2,745.9	2,745.9	2,746.4	0.6
Χ	14,540	79	171	6.5	2,772.9	2,772.9	2,773.8	0.9

¹ Feet above confluence with Mint Canyon Creek

TAI	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
BLE	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: SPADE SPRING CANYON CREEK

Table 24: Floodway Data, continued

	1							1
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A B C D E F G H I J K L	106 2,997 5,561 7,584 9,813 12,066 14,071 16,651 19,121 21,133 23,133 25,905	191 238 262 308 135 308 310 144 257 130 190 142	2,235 2,449 2,437 3,884 2,609 3,544 2,920 1,803 2,029 1,372 1,159 1,788	9.0 7.9 8.0 5.0 7.2 5.0 6.0 8.8 7.6 11.1 13.1 8.4	737.0 747.6 756.0 770.6 783.4 790.1 800.5 811.7 825.2 833.8 842.2 861.2	737.0 747.6 756.0 770.6 783.4 790.1 800.5 811.7 825.2 833.8 842.2 861.2	737.0 747.9 756.9 770.6 783.7 790.5 800.5 812.6 825.9 834.2 842.4 861.2	0.0 0.3 0.9 0.0 0.3 0.4 0.0 0.9 0.7 0.4 0.2 0.0

¹Feet above confluence with Malibu Lake

TABLI	LOS ANGELES COUNTY, CALIFORNIA	FLOODWAY DATA
≣ 24	Loo, Migeles oositi i, o, teli oran, t	FLOODING SOURCE: TRIUNFO CREEK

Table 24: Floodway Data, continued

LOCATION		N FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Α	342	14	19	6.7	149.4	149.4	149.4	0.0
В	434	30	24	5.2	174.5	174.5	174.5	0.0
C	482	41	27	4.6	177.1	174.3	177.1	0.0
D	539	28	24	5.3	182.6	182.6	183.4	0.8
F	586	35	26	4.9	185.2	185.2	185.3	0.1
E F	888	32	25	5.0	196.3	196.3	196.3	0.0
Ġ	934	39	27	4.7	199.2	199.2	199.2	0.0
H	960	37	26	4.8	203.2	203.2	203.2	0.0
ï	1,040	27	24	5.3	207.8	207.8	208.1	0.3
j j	1,256	58	30	4.2	213.4	213.4	213.6	0.2
K	1,582	60	70	1.8	216.2	216.2	216.2	0.0
i	1,722	26	9	3.4	233.7	233.7	233.7	0.0
M	1,823	35	10	3.1	240.4	240.4	240.4	0.0
N.	2,054	29	40	0.8	246.7	246.7	247.3	0.6
Ö	2,373	11	7	4.6	257.9	257.9	257.9	0.0
P	2,485	32	10	3.2	268.7	268.7	268.7	0.0
Q	2,506	19	2	1.8	272.1	272.1	272.1	0.0
Ř	2,700	9	2	1.3	277.8	277.8	277.8	0.0
S	2,858	34	90	9.2	283.9	283.9	283.9	0.0
S T	3,031	75	122	6.8	293.3	293.3	293.3	0.0
U	3,246	24	63	9.2	300.6	300.6	300.6	0.0
V	3,699	21	60	9.6	326.3	326.3	326.3	0.0
W	3,774	33	70	8.3	336.2	336.2	336.2	0.0
Χ	3,946	22	61	9.5	338.6	338.6	338.6	0.0
Υ	4,068	27	65	8.9	350.7	350.7	350.7	0.0
Z	4,261	36	72	8.0	355.6	355.6	355.6	0.0

¹ Feet above Pacific Ocean

ΤA	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
BEE	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: UNNAMED STREAM MAIN REACH

Table 24: Floodway Data, continued

LOCA	LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE	
AA AB AC AD AF AA AAA AAA AQ AQ	4,380 4,434 4,490 4,565 5,024 5,087 5,136 5,153 5,177 5,520 5,533 5,626 5,648 5,730 5,753 5,753 5,792 5,934	55 35 33 8 16 37 24 39 48 18 7 9 44 54 33 30 30	83 72 156 1 4 18 15 18 19 2 2 1 18 35 30 29 12	7.0 8.1 3.7 2.3 0.8 4.0 4.6 3.9 3.6 1.7 1.3 2.2 3.7 4.7 5.5 5.6 1.8	369.4 372.0 373.1 379.3 410.4 416.7 422.9 428.5 429.3 472.0 472.4 488.1 497.9 521.6 523.5 523.8 526.9	369.4 372.0 373.1 379.3 410.4 416.7 422.9 428.5 429.3 472.0 472.4 488.1 497.9 521.6 523.5 523.8 526.9	369.5 372.0 373.1 379.3 410.4 416.7 422.9 428.6 429.3 472.1 472.4 488.1 497.9 521.6 523.5 523.9 526.9	0.1 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.1 0.0 0.0	

¹ Feet above Pacific Ocean

TA	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA  FLOODING SOURCE: UNNAMED STREAM MAIN REACH			
BLE.	LOS ANGELES COUNTY, CALIFORNIA				
24	AND INCORPORATED AREAS				

Table 24: Floodway Data, continued

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
ABCDEFGHIJKLMN	57 239 314 366 546 799 935 1,009 1,051 1,145 1,227 1,343 1,374 1,400	30 23 27 25 18 33 29 18 29 25 22 15 26 23	23 46 22 22 20 24 23 6 25 24 23 21 24 57	5.0 2.6 5.3 5.4 6.0 4.9 5.1 3.3 5.6 5.8 6.6 5.6 2.4	380.3 388.1 399.3 410.1 421.7 441.6 457.0 458.9 463.7 493.2 508.2 514.4 525.7 526.3	380.3 388.1 399.3 410.1 421.7 441.6 457.0 458.9 463.7 493.2 508.2 514.4 525.7 526.3	380.3 388.4 399.3 410.3 421.8 441.6 457.0 458.9 463.7 493.2 508.2 514.4 525.7 526.3	0.0 0.3 0.0 0.2 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0

¹ Feet above confluence with Unnamed Stream Main Reach

ΤA	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA			
BLE	LOS ANGELES COUNTY, CALIFORNIA				
24	AND INCORPORATED AREAS	FLOODING SOURCE: UNNAMED STREAM TRIBUTARY 1			

Table 24: Floodway Data, continued

LOCATION		FLOODWAY		1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)				
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A B C D E F G H I J K L M N	207 623 744 803 913 1,699 2,039 2,405 2,523 2,569 2,674 2,692 2,822 2,943	23 31 39 44 24 27 33 26 24 29 35 30 52 35	26 29 31 46 26 28 29 49 54 91 53 51 90 130	6.1 5.5 5.1 3.5 6.0 5.8 5.4 7.8 7.1 4.2 7.1 7.4 3.6 2.8	284.8 322.6 334.4 335.6 344.2 395.9 431.2 455.1 470.0 470.9 482.7 487.8 498.0 498.3	284.8 322.6 334.4 335.6 344.2 395.9 431.2 455.1 470.0 470.9 482.7 487.8 498.0 498.3	284.8 322.7 334.4 335.7 344.2 395.9 431.2 455.2 470.1 471.5 482.7 487.8 498.4 498.5	0.0 0.1 0.0 0.1 0.0 0.0 0.1 0.1

¹ Feet above confluence with Unnamed Stream Main Reach

TA	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
BEE .	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: UNNAMED STREAM TRIBUTARY 2

Table 24: Floodway Data, continued

LOCA	LOCATION		FLOODWAY		1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			RFACE
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	CROSS SECTION	DISTANCE1	WIDTH (FEET)
Α	1,290	70	210	5.4	1,377.9	1,377.9	1,377.9	0.0

¹ Feet upstream of Golden State Freeway Bridge

TA	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
ᄩ	LOS ANGELES COUNTY, CALIFORNIA	
24	AND INCORPORATED AREAS	FLOODING SOURCE: WELDON CANYON

# Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams [Not Applicable to this Flood Risk Project]

## 6.4 Coastal Flood Hazard Mapping

Flood insurance zones and BFEs including the wave effects were identified on each transect based on the results from the onshore wave hazard analyses. Between transects, elevations were interpolated using topographic maps, land-use and land-cover data, and knowledge of coastal flood processes to determine the aerial extent of flooding. Sources for topographic data are shown in Table 23.

Zone VE is subdivided into elevation zones and BFEs are provided on the FIRM.

The limit of Zone VE shown on the FIRM is defined as the farthest inland extent of any of these criteria (determined for the 1% annual chance flood condition):

- The *primary frontal dune zone* is defined in 44 CFR Section 59.1 of the NFIP regulations. The primary frontal dune represents a continuous or nearly continuous mound or ridge of sand with relatively steep seaward and landward slopes that occur immediately landward and adjacent to the beach. The primary frontal dune zone is subject to erosion and overtopping from high tides and waves during major coastal storms. The inland limit of the primary frontal dune zone occurs at the point where there is a distinct change from a relatively steep slope to a relatively mild slope.
- The *wave runup zone* occurs where the (eroded) ground profile is 3.0 feet or more below the 1-percent annual chance TWL.
- The wave overtopping splash zone is the area landward of the crest of an overtopped barrier, in cases where the potential 1-percent annual chance TWL.
- The *breaking wave height zone* occurs where 3-foot or greater wave heights could occur (this is the area where the wave crest profile is 2.1 feet or more above the total stillwater elevation).
- The *high-velocity flow zone* is landward of the overtopping splash zone (or area on a sloping beach or other shore type), where the product of depth of flow times the flow velocity squared (hv²) is greater than or equal to 200 ft³/sec². This zone may only be used on the Pacific Coast.

The SFHA boundary indicates the limit of SFHAs shown on the FIRM as either "V" zones or "A" zones.

Table 26 indicates the coastal analyses used for floodplain mapping and the criteria used to determine the inland limit of the open-coast Zone VE and the SFHA boundary at each transect.

**Table 26: Summary of Coastal Transect Mapping Considerations** 

Table 26: Summary of Coastal Transect Mapping Considerations						
		Wave Runup Analysis	Wave Height Analysis			
Coastal Transect	Primary Frontal Dune (PFD) Identified	Zone Designation and BFE (ft NAVD88)	Zone Designation and BFE (ft NAVD88)	Zone VE Limit	SFHA Boundary	
1		VE 18	N/A	Runup	Runup	
2		VE 13	N/A	Runup	Runup	
3		VE 21	N/A	Runup	Runup	
4		VE 14	N/A	Runup	Runup	
5		VE 15	N/A	Runup	Runup	
6		VE 14	N/A	Runup	Runup	
7		VE 20	N/A	Runup	Runup	
8		VE 17	N/A	Runup	Runup	
9		VE 20	N/A	Runup	Overtopping	
10		VE 14	N/A	Runup	Runup	
11		VE 21	N/A	Runup	Overtopping	
12		VE 16	N/A	Runup	Overtopping	
13		VE 16, 20	N/A	Runup	Overtopping	
14		VE 20	N/A	Runup	Overtopping	
15		VE 22 AE 22	N/A	Runup	Runup	
16		VE 17 AE 17	N/A	Runup	Runup	
17		VE 17	N/A	Runup	Runup	
18		VE 14 AE 14	N/A	Runup	Runup	
19		VE 14	N/A	Runup	Runup	
20		VE 19 AE 19	N/A	Runup	Runup	
21		VE 12	N/A	Runup	Runup	
22		VE 12	N/A	Runup	Runup	
23		VE 23	N/A	Runup	Overtopping	
24		VE 19	N/A	Runup	Runup	
25		VE 20	N/A	Runup	Overtopping	
26		VE 13	N/A	Runup	Runup	
27		VE 20	N/A	Runup	Overtopping	

Table 26: Summary of Coastal Transect Mapping Considerations, continued

		Wave Runup Analysis	Wave Height Analysis		
Coastal Transect	Primary Frontal Dune (PFD) Identified	Zone Designation and BFE (ft NAVD88)	Zone Designation and BFE (ft NAVD88)	Zone VE Limit	SFHA Boundary
28		VE 24, 31	N/A	Runup	Overtopping
29		VE 16	N/A	Runup	Runup
30		VE 17	N/A	Runup	Runup
31		VE 19	N/A	Runup	Overtopping
32		VE 19	N/A	Runup	Overtopping
33		VE 13	N/A	Runup	Runup
34		VE 17	N/A	Runup	Runup
35		VE 18	N/A	Runup	Runup
36		VE 19	N/A	Runup	Overtopping
37		VE 18	N/A	Runup	Runup
38		VE 20 AE 18	N/A	Runup	Overtopping
39		VE 13	N/A	Runup	Runup
40		VE 21	N/A	Runup	Overtopping
41		VE 25	N/A	Runup	Overtopping
42		VE 22	N/A	Runup	Overtopping
43		VE 24	N/A	Runup	Overtopping
44		VE 13	N/A	Runup	Runup
45		VE 20	N/A	Runup	Runup
46		VE 20	N/A	Runup	Overtopping
47		VE 17	N/A	Runup	Runup
48		VE 21	N/A	Runup	Runup
49		VE 17	N/A	Runup	Overtopping
50		VE 17	N/A	Runup	Runup
51		VE 17	N/A	Runup	Runup
F0		VE 15	NI/A	Durana	Durana
52		AE 15	N/A	Runup	Runup
53		VE 17	N/A	Punun	Dunin
		AE 17	IN/A	Runup	Runup
54		VE 21	N/A	Runup	Overtopping

Table 26: Summary of Coastal Transect Mapping Considerations, continued

			I	ı	
		Wave Runup Analysis	Wave Height Analysis		
Coastal Transect	Primary Frontal Dune (PFD) Identified	Zone Designation and BFE (ft NAVD88)	Zone Designation and BFE (ft NAVD88)	Zone VE Limit	SFHA Boundary
55		VE 15	N/A	Runup	Overtopping
56		VE 15	N/A	Runup	Overtopping
57		VE 17	N/A	Runup	Overtopping
58		VE 16	N/A	Runup	Runup
59		VE 15	N/A	Runup	Runup
60		VE 19	N/A	Runup	Runup
61		VE 16	N/A	Runup	Runup
62		VE 14	N/A	Runup	Runup
63		VE 23	N/A	Runup	Runup
64		VE 21	N/A	Runup	Overtopping
65		VE 14	N/A	Runup	Runup
		AE 14	,		
66		VE 23	N/A	Runup	Overtopping
67		VE 19	N/A	Runup	Runup
68		VE 16	N/A	Runup	Runup
		AE 16	,, .		
69		VE 16	N/A	Runup	Runup
		AE 16		'	'
70		VE 18	N/A	Runup	Runup
		AE 17			'
71		VE 17	N/A	Runup	Runup
		AE 17			-
72		VE 19	N/A	Runup	Runup
73		VE 20	N/A	Runup	Runup
		AE 20			·
74		VE 18	N/A	Runup	Runup
		AE 18			-
75		VE 20	N/A	Runup	Runup
76		VE 18	N/A	Runup	Runup
77		VE 18	N/A	Runup	Runup

Table 26: Summary of Coastal Transect Mapping Considerations, continued

		Wave Runup Analysis	Wave Height Analysis		
Coastal Transect	Primary Frontal Dune (PFD) Identified	Zone Designation and BFE (ft NAVD88)	Zone Designation and BFE (ft NAVD88)	Zone VE Limit	SFHA Boundary
78		VE 17	N/A	Runup	Overtopping
79		VE 23	N/A	Runup	Overtopping
80		VE 21, 23 AE 8	N/A	Runup	Overtopping
81		VE 9 AE 8	N/A	Runup	Runup
82		VE 13	N/A	Runup	Runup
83		VE 13 AE 13	N/A	Runup	Runup
84		VE 12 AE 12	N/A	Runup	Runup
85		VE 14 AE 14	N/A	Runup	Runup
86		VE 18 AE 18	N/A	Runup	Runup
87		VE 20	N/A	Runup	Runup
88		VE 13	N/A	Runup	Runup
89		VE 15	N/A	Runup	Runup
90		VE 18	N/A	Runup	Runup
91		VE 16	N/A	Runup	Runup
92		VE 22	N/A	Runup	Runup
93		VE 20	N/A	Runup	Runup
94		VE 17	N/A	Runup	Runup
95		VE 18	N/A	Runup	Runup
96		VE 17	N/A	Runup	Runup
97		VE 17	N/A	Runup	Runup
98		VE 22	N/A	Runup	Runup
99		VE 17	N/A	Runup	Runup
100		VE 16	N/A	Runup	Runup
101		VE 14	N/A	Runup	Runup

Table 26: Summary of Coastal Transect Mapping Considerations, continued

		Wave Runup	Wave Height		
		Analysis	Analysis		
Coastal Transect	Primary Frontal Dune (PFD) Identified	Zone Designation and BFE (ft NAVD88)	Zone Designation and BFE (ft NAVD88)	Zone VE Limit	SFHA Boundary
102		VE 22	N/A	Runup	Overtopping
103		VE 15	N/A	Runup	Runup
104		VE 21	N/A	Runup	Runup
105		VE 13	N/A	Runup	Runup
106		VE 12, 15	N/A	Runup	Runup
107		VE 12, 19	N/A	Runup	Overtopping
108		VE 12	N/A	Runup	Runup
109		VE 11 AE 8	N/A	Runup	Runup
110		VE 24	N/A	Runup	Runup
111		VE 9 AE 8	N/A	Runup	Runup
112		VE 8 AE 8	N/A	Runup	Runup
113		VE 8 AE 8	N/A	Runup	Runup
114		VE 8 AE 8	N/A	Runup	Runup
115		VE 8 AE 8	N/A	Runup	Runup
116		VE 8 AE 8	N/A	Runup	Runup
117		VE 9 AE 9	N/A	Runup	Runup
118		VE 9 AE 9	N/A	Runup	Runup
119		VE 8 AE 8	N/A	Runup	Runup
120		VE 9 AE 8, 9	N/A	Runup	Runup

Table 26: Summary of Coastal Transect Mapping Considerations, continued

		Wave Runup Analysis	Wave Height Analysis		
Coastal Transect	Primary Frontal Dune (PFD) Identified	Zone Designation and BFE (ft NAVD88)	Zone Designation and BFE (ft NAVD88)	Zone VE Limit	SFHA Boundary
121		VE 12 AE 8, 12	N/A	Runup	Runup

#### 6.5 FIRM Revisions

This FIS Report and the FIRM are based on the most up-to-date information available to FEMA at the time of its publication; however, flood hazard conditions change over time. Communities or private parties may request flood map revisions at any time. Certain types of requests require submission of supporting data. FEMA may also initiate a revision. Revisions may take several forms, including Letters of Map Amendment (LOMAs), Letters of Map Revision Based on Fill (LOMR-Fs), Letters of Map Revision (LOMRs) (referred to collectively as Letters of Map Change (LOMCs)), Physical Map Revisions (PMRs), and FEMA-contracted restudies. These types of revisions are further described below. Some of these types of revisions do not result in the republishing of the FIS Report. To assure that any user is aware of all revisions, it is advisable to contact the community repository of flood hazard data (shown in Table 31, "Map Repositories").

### 6.5.1 Letters of Map Amendment

A LOMA is an official revision by letter to an effective NFIP map. A LOMA results from an administrative process that involves the review of scientific or technical data submitted by the owner or lessee of property who believes the property has incorrectly been included in a designated SFHA. A LOMA amends the currently effective FEMA map and establishes that a specific property is not located in a SFHA.

To obtain an application for a LOMA, visit <a href="www.fema.gov/floodplain-management/letter-map-amendment-loma">www.fema.gov/floodplain-management/letter-map-amendment-loma</a> and download the form "MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill". Visit the "Flood Map-Related Fees" section to determine the cost, if any, of applying for a LOMA.

FEMA offers a tutorial on how to apply for a LOMA. The LOMA Tutorial Series can be accessed at <a href="https://www.fema.gov/online-tutorials">www.fema.gov/online-tutorials</a>.

For more information about how to apply for a LOMA, call the FEMA Map Information eXchange; toll free, at 1 877 FEMA MAP (1 877 336 2627).

## 6.5.2 Letters of Map Revision Based on Fill

A LOMR-F is an official revision by letter to an effective NFIP map. A LOMR-F states FEMA's determination concerning whether a structure or parcel has been elevated on fill above the base flood elevation and is, therefore, excluded from the SFHA.

Information about obtaining an application for a LOMR-F can be obtained in the same manner as that for a LOMA, by visiting <a href="www.fema.gov/floodplain-management/letter-map-amendment-loma">www.fema.gov/floodplain-management/letter-map-amendment-loma</a> for the "MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill" or by calling the FEMA Map Information eXchange, toll free, at 1-877-FEMA MAP (1-877-336-2627). Fees for applying for a LOMR-F, if any, are listed in the "Flood Map-Related Fees" section.

A tutorial for LOMR-F is available at <a href="www.fema.gov/online-tutorials">www.fema.gov/online-tutorials</a>.

## 6.5.3 Letters of Map Revision

A LOMR is an official revision to the currently effective FEMA map. It is used to change flood zones, floodplain and floodway delineations, flood elevations and planimetric features. All requests for LOMRs should be made to FEMA through the chief executive officer of the community, since it is the community that must adopt any changes and revisions to the map. If the request for a LOMR is not submitted through the chief executive officer of the community, evidence must be submitted that the community has been notified of the request.

To obtain an application for a LOMR, visit <a href="https://www.fema.gov/media-library/assets/documents/1343">https://www.fema.gov/media-library/assets/documents/1343</a> and download the form "MT-2 Application Forms and Instructions for Conditional Letters of Map Revision and Letters of Map Revision". Visit the "Flood Map-Related Fees" section to determine the cost of applying for a LOMR. For more information about how to apply for a LOMR, call the FEMA Map Information eXchange; toll free, at 1 877 FEMA MAP (1-877-336-2627) to speak to a Map Specialist.

Previously issued mappable LOMCs (including LOMRs) that have been incorporated into the Los Angeles County FIRM are listed in Table 27. Please note that this table only includes LOMCs that have been issued on the FIRM panels updated by this map revision. For all other areas within this county, users should be aware that revisions to the FIS Report made by prior LOMRs may not be reflected herein and users will need to continue to use the previously issued LOMRs to obtain the most current data.

**Table 27: Incorporated Letters of Map Change** 

Case Number	Effective Date	Flooding Source	FIRM Panel(s)	Special Considerations
08-09-1614P	09-29-2008	Unnamed Tributary to Santa Clara River	06037C0885G	
08-09-1757P	09-29-2008	Sand Canyon Creek Lateral	06037C0845G	This LOMR was partially incorporated to realign with new topography.
09-09-1285P	04-24-2009	Basin at Villa Canyon Road & Route 5 and Villa Canyon Creek	06037C0845G	
10-09-0746P	02-26-2010	Violin Canyon Creek	06037C0805G; 06037C0600G	

Table 27: Incorporated Letters of Map Change (continued)

Case Number	Effective Date	Flooding Source	FIRM Panel(s)	Special Considerations
10-09-1818P	04-26-2010	Oak Creek Springs	06037C0845G	Realigned from City of Santa Clarita comment to better align with topography.
11-09-1367P	04-25-2011	Mint Canyon Creek Overflow	06037C0840G; 06037C0845G	Partially incorporated LOMR for Mint Canyon Creek Overflow
12-09-2819P	08-09-2013	Newhall Creek, Railroad Canyon Left Overbank, and Newhall Creek Left Overbank Reach 2	06037C0818G; 06037C0819G; 06037C1032G	This LOMR was partially superseded by 13-09-2046P
13-09-1601P	12-06-2013	Wildwood Canyon	06037C1031G	
13-09-2785P	01-24-2014	Mint Canyon Creek Overflow Reach 2	06037C0840G	
13-09-2046P	02-07-2014	Newhall Creek Left Overbank Reach 2 and Newhall Creek	06037C0818G; 06037C0819G	
17-09-0916P	10-06-2017	Santa Clara River	06037C0840G; 06037C0845G	The delineation was incorporated from this LOMR however revised detailed analyses was incorporated.
18-09-1767P	06-13-2019	Plum Canyon Creek	06037C0830G	
20-09-0137P	09-23-2020	Tributary to Unnamed Canyon	06037C0840G	

#### 6.5.4 Physical Map Revisions

PMRs are an official republication of a community's NFIP map to effect changes to base flood elevations, floodplain boundary delineations, regulatory floodways and planimetric features. These changes typically occur as a result of structural works or improvements, annexations resulting in additional flood hazard areas or correction to base flood elevations or SFHAs.

The community's chief executive officer must submit scientific and technical data to FEMA to support the request for a PMR. The data will be analyzed and the map will be revised if warranted. The community is provided with copies of the revised information and is afforded a review period. When the base flood elevations are changed, a 90-day appeal period is provided. A 6-month adoption period for formal approval of the revised map(s) is also provided.

For more information about the PMR process, please visit <a href="http://www.fema.gov">http://www.fema.gov</a> and visit the "Flood Map Revision Processes" section.

#### 6.5.5 Contracted Restudies

The NFIP provides for a periodic review and restudy of flood hazards within a given community. FEMA accomplishes this through a national watershed-based mapping needs assessment strategy, known as the Coordinated Needs Management Strategy (CNMS). The CNMS is used by FEMA to assign priorities and allocate funding for new flood hazard analyses used to update the FIS Report and FIRM. The goal of CNMS is to define the validity of the engineering study data within a mapped inventory. The CNMS is used to track the assessment process, document engineering gaps and their resolution, and aid in prioritization for using flood risk as a key factor for areas identified for flood map updates. Visit <a href="www.fema.gov">www.fema.gov</a> to learn more about the CNMS or contact the FEMA Regional Office listed in Section 8 of this FIS Report.

## 6.5.6 Community Map History

The current FIRM presents flooding information for the entire geographic area of Los Angeles County. Previously, separate FIRMs, Flood Hazard Boundary Maps (FHBMs) and/or Flood Boundary and Floodway Maps (FBFMs) may have been prepared for the incorporated communities and the unincorporated areas in the county that had identified SFHAs. Current and historical data relating to the maps prepared for the project area are presented in Table 28, "Community Map History." A description of each of the column headings and the source of the date is also listed below.

- Community Name includes communities falling within the geographic area shown on the
  FIRM, including those that fall on the boundary line, nonparticipating communities, and
  communities with maps that have been rescinded. Communities with No Special Flood
  Hazards are indicated by a footnote. If all maps (FHBM, FBFM, and FIRM) were
  rescinded for a community, it is not listed in this table unless SFHAs have been identified
  in this community.
- Initial Identification Date (First NFIP Map Published) is the date of the first NFIP map that identified flood hazards in the community. If the FHBM has been converted to a FIRM, the initial FHBM date is shown. If the community has never been mapped, the upcoming effective date or "pending" (for Preliminary FIS Reports) is shown. If the community is listed in Table 28 but not identified on the map, the community is treated as if it were unmapped.
- *Initial FHBM Effective Date* is the effective date of the first Flood Hazard Boundary Map (FHBM). This date may be the same date as the Initial NFIP Map Date.
- FHBM Revision Date(s) is the date(s) that the FHBM was revised, if applicable.
- *Initial FIRM Effective Date* is the date of the first effective FIRM for the community. This is the first effective date that is shown on the FIRM panel.
- FIRM Revision Date(s) is the date(s) the FIRM was revised, if applicable. This is the revised date that is shown on the FIRM panel, if applicable. As countywide studies are completed or revised, each community listed should have its FIRM dates updated accordingly to reflect the date of the countywide study. Once the FIRMs exist in countywide format, as Physical Map Revisions (PMR) of FIRM panels within the county are completed, the FIRM Revision Dates in the table for each community affected by the PMR are updated with the date of the PMR, even if the PMR did not revise all the panels within that community.

The initial effective date for the Los Angeles County FIRMs in countywide format was 09/26/2008.

**Table 28: Community Map History** 

Community Name	Initial Identification Date	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Agoura Hills, City of	03/04/1986	N/A	N/A	03/04/1986	04/04/2018 09/26/2008 08/03/1998 12/18/1986
Alhambra, City of¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Arcadia, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Artesia, City of¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Avalon, City of	10/08/1976	10/08/1976	N/A	09/29/1978	09/26/2008 11/01/1985
Azusa, City of	09/26/2008	N/A	N/A	09/26/2008	N/A
Baldwin Park, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Bell, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Bell Gardens, City of	09/26/2008	N/A	N/A	09/26/2008	N/A
Bellflower, City of	07/06/1998	N/A	N/A	07/06/1998	09/26/2008
Beverly Hills, City of ¹	09/26/2008	N/A	N/A	09/26/2008	12/21/2018
Bradbury, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Burbank, City of	07/19/1974	09/26/1975	N/A	03/16/1981	09/26/2008 01/20/1999
Calabasas, City of	12/02/1980 (Los Angeles County)	N/A	N/A	12/02/1980 (Los Angeles County)	12/21/2018 01/06/2016 09/26/2008
Carson, City of	07/06/1998	N/A	N/A	07/06/1998	04/21/2021 09/26/2008
Cerritos, City of	09/26/2008	N/A	N/A	09/26/2008	N/A
Claremont, City of ¹	11/20/2000	N/A	N/A	11/20/2000	09/26/2008 07/02/2004
Commerce, City of	09/26/2008	N/A	N/A	09/26/2008	N/A
Compton, City of	07/06/1998	N/A	N/A	07/06/1998	09/26/2008
Covina, City of ¹	06/28/1974	06/28/1974	08/27/1976 11/07/1975	09/26/2008	N/A
Cudahy, City of	09/26/2008	N/A	N/A	09/26/2008	N/A
Culver City, City of	06/28/1974	06/28/1974	09/03/1976 10/31/1975	02/01/1980	04/21/2021 12/21/2018 09/26/2008
Diamond Bar, City of	12/02/1980 (Los Angeles County)	N/A	N/A	12/02/1980 (Los Angeles County)	09/26/2008
Downey, City of	07/06/1998	N/A	N/A	07/06/1998	09/26/2008
Duarte, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A

Table 28: Community Map History, continued

Community Name	Initial Identification Date	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
El Monte, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
El Segundo, City of	09/26/2008	N/A	N/A	09/26/2008	04/21/2021
Gardena, City of	07/06/1998	N/A	N/A	07/06/1998	09/26/2008
Glendale, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Glendora, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Hawaiian Gardens, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Hawthorne, City of ¹	12/04/1979	N/A	N/A	12/04/1979	04/21/2021 09/26/2008
Hermosa Beach, City of	09/26/2008	N/A	N/A	09/26/2008	04/21/2021
Hidden Hills, City of	09/07/1984	N/A	N/A	09/07/1984	09/26/2008 01/19/2006 11/21/2001
Huntington Park, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Industry, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Inglewood, City of ¹	09/26/2008	N/A	N/A	09/26/2008	12/21/2018
Irwindale, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
La Canada Flintridge, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
La Habra Heights, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
La Mirada, City of	06/28/1974	06/28/1974	12/10/1976 10/10/1975	07/02/1980	09/26/2008
La Puente, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
La Verne, City of	09/26/2008	N/A	N/A	09/26/2008	N/A
Lakewood, City of	07/06/1998	N/A	N/A	07/06/1998	09/26/2008
Lancaster, City of	09/11/1979	09/11/1979	N/A	01/06/1982	09/26/2008
Lawndale, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Lomita, City of ¹	09/26/2008	N/A	N/A	09/26/2008	04/21/2021
Long Beach, City of	07/26/1974	07/26/1974	07/11/1978	09/15/1983	04/21/2021 09/26/2008 07/06/1998

Table 28: Community Map History, continued

Table 28: Community Map History, continued							
Community Name	Initial Identification Date	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)		
Los Angeles, City of	12/13/1977	12/13/1977	04/08/1980	12/02/1980	06/02/2021 04/21/2021 12/21/2018 01/06/2016 09/26/2008 05/04/1999 07/06/1998 02/04/1987		
Los Angeles County Unincorporated Areas	10/24/1978	10/24/1978	N/A	12/02/1980	06/02/2021 04/21/2021 12/21/2018 04/04/2018 01/06/2016 09/26/2008 07/06/1998 03/30/1998 11/15/1985		
Lynwood, City of	06/28/1974	06/28/1974	11/21/1975	04/15/1980	09/26/2008 07/06/1998		
Malibu, City of	09/26/2008	N/A	N/A	09/26/2008	04/21/2021 12/21/2018		
Manhattan Beach, City of	09/26/2008	N/A	N/A	09/26/2008	04/21/2021		
Maywood, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A		
Monrovia, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A		
Montebello, City of	06/28/1974	06/28/1974	12/19/1975	03/18/1980	09/26/2008		
Monterey Park, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A		
Norwalk, City of	09/26/2008	N/A	N/A	09/26/2008	N/A		
Palmdale, City of	10/18/1974	10/18/1974	12/24/1976	01/06/1982	09/26/2008 03/30/1998 06/18/1987		
Palos Verdes Estates, City of	09/07/1984	N/A	N/A	11/21/2001	04/21/2021 01/06/2016 09/26/2008 07/02/2004 11/21/2001		
Paramount, City of	07/06/1998	N/A	N/A	07/06/1998	09/26/2008		
Pasadena, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A		
Pico Rivera, City of	07/06/1998	N/A	N/A	07/06/1998	09/26/2008		

Table 28: Community Map History, continued

Community Name	Initial Identification Date	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Pomona, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Rancho Palos Verdes, City of	09/26/2008	N/A	N/A	09/26/2008	04/21/2021 01/06/2015
Redondo Beach, City of	06/28/1974	06/28/1974	05/21/1976	09/15/1983	04/21/2021 09/26/2008
Rolling Hills, City of ¹	09/26/2008	N/A	N/A	09/26/2008	04/21/2021
Rolling Hills Estates, City of ¹	09/26/2008	N/A	N/A	09/26/2008	04/21/2021
Rosemead, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
San Dimas, City of	06/28/1974	06/28/1974	N/A	04/01/1977	09/26/2008 06/02/1978
San Fernando, City of ¹	02/11/1976	N/A	N/A	02/11/1976	06/02/2021 09/26/2008
San Gabriel, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
San Marino, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Santa Clarita, City of	10/24/1978	10/24/1978	N/A	12/02/1980	06/02/2021 09/26/2008 09/29/1989
Santa Fe Springs, City of	06/28/1974	06/28/1974	10/03/1975	04/15/1980	09/26/2008
Santa Monica, City of	09/26/2008	N/A	N/A	09/26/2008	04/21/2021
Sierra Madre, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Signal Hill, City of ¹	09/26/2008	N/A	N/A	09/26/2008	04/21/2021
South El Monte, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
South Gate, City of	07/06/1998	N/A	N/A	07/06/1998	09/26/2008
South Pasadena, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Temple City, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
Torrance, City of	08/02/1974	08/02/1974	12/05/1975	12/18/1979	04/21/2021 01/06/2016 09/26/2008
Vernon, City of ¹	09/26/2008	N/A	N/A	09/26/2008	12/21/2018
Walnut, City of ¹	09/26/2008	N/A	N/A	09/26/2008	N/A
West Covina, City of	12/02/2004	N/A	N/A	12/02/2004	09/26/2008
West Hollywood, City of ¹	06/18/1987	N/A	N/A	06/18/1987	09/26/2008
Westlake Village, City of	09/26/2008	N/A	N/A	09/26/2008	04/04/2018

Table 28: Community Map History, continued

Community Name	Initial Identification Date	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Whittier, City of	06/28/1974	06/28/1974	12/12/1975	01/16/1981	09/26/2008

¹ No Special Flood Hazard Areas Identified

# **SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION**

# 7.1 Contracted Studies

Table 29 provides a summary of the contracted studies, by flooding source, that are included in this FIS Report.

Table 29: Summary of Contracted Studies Included in this FIS Report

				Work	
	FIS Report			Completed	Affected
Flooding Source	Dated	Contractor	Number	Date	Communities
Acton Canyon	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County
Agua Amarge Canyon	_	LACFCD	H-3940	_	City of Palos Verdes Estates
Agua Dulce Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County
Agua Dulce Canyon Creek	_	LACFCD	H-3940	_	Los Angeles County
Agua Dulce Canyon Creek Lateral	06/02/2021	HDR Engineering Inc.	EMF-2003- CO-0045, Task Order 21	August 2008	Los Angeles County
Alamitos Bay	_	LACFCD	H-3940		City of Long Beach
Aliso Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County
Amargosa Creek	_	Rick Engineering Company	EMW-84- 1639	November 1985	City of Lancaster; Los Angeles County; City of Palmdale
Amargosa Creek Tributary	_	LACFCD	H-3940	_	City of Lancaster
Anaverde Creek	_	Rick Engineering Company	EMW-84- 1639	November 1985	City of Palmdale
Arrastre Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Arroyo Calabasas	_	LACFCD	H-3940	_	City of Los Angeles
Arroyo San Miguel	01/16/1980	LACFCD	H-3940	August 1978	City of Whittier
Arroyo Sequit	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Avalon Bay	_	LACFCD	H-3940		City of Avalon
Avalon Canyon	11/01/1985	LACFCD	H-3940	1977	City of Avalon
Back Channel	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C- 2248	May 1991	City of Long Beach

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

				\\\ / =  -	
	FIS Report			Work Completed	Affected
Flooding Source	Dated	Contractor	Number	Date	Communities
Ballona Creek	12/01/1980	LACFCD	H-3940	June 1978	City of Culver City; City of Los Angeles, Los Angeles County
Ballona Creek Watershed	12/21/2018	BakerAECOM	HSFEHQ- D-09-0368	2016	Los Angeles County
Bar Creek	_	LACFCD	H-3940	_	City of Diamond Bar
Bee Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Big Rock Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Big Rock Creek South Fork	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Big Rock Wash	01/06/1982	LACFCD	H-3940	May 1979, Revised November 1985	City of Lancaster; Los Angeles County
Big Rock Wash (Profile Base Line)		Rick Engineering Company	EMW-84- 1639	November 1985	City of Palmdale
Big Tujunga Wash	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Boulder Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Bouquet Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-09- J-0001	March 2014	Los Angeles County; City of Santa Clarita
Bouquet Reservoir	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Broad Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Browns Creek	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
California Aqueduct		LACFCD	H-3940		Los Angeles County
Canada De Los Alamos Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Carlos Canyon Creek		LACFCD	H-3940		Los Angeles County
Carr Canyon Creek		LACFCD	H-3940		Los Angeles County
Castaic Creek	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County

Table 29: Summary	or contract	led Studies inc	iuueu iii tiiis		Continueu
Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Castaic Lagoon	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Castaic Lake	_	LACFCD	H-3940	_	Los Angeles County
Channel No. 2	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C- 2248	May 1991	City of Long Beach
Channel No. 3	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C- 2248	May 1991	City of Long Beach
Charlie Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Chatsworth Reservoir	12/02/1980	LACFCD	H-3940	December 1979	City of Los Angeles
Cherry Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Cheseboro Creek	08/03/1998	Ensign & Buckley	EMW-93-C- 4151	*	City of Agoura Hills; Los Angeles County
Cold Creek	12/21/2018	BakerAECOM	HSFEHQ- D-09-0368	2016	Los Angeles County
Colorado Lagoon	12/02/1980	LACFCD	H-3940	August 1979	City of Long Beach
Compton Creek	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C- 2248	May 1991	City of Compton, City of Long Beach, Los Angeles County
Consolidated Channel	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Coyote Canyon Creek	09/29/1989	LACFCD	H-3940	1984	City of Santa Clarita
Coyote Creek	_	LACFCD	H-3940	_	City of Long Beach
Cruthers Creek	_	LACFCD	H-3940	_	Los Angeles County
Dark Canyon	12/21/2018	BakerAECOM	HSFEHQ- D-09-0368	2016	Los Angeles County
Dark Canyon West Branch	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Dewitt Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Dominguez Channel	12/02/1980	LACFCD	H-3940	August 1978	City of Los Angeles, City of Carson, City of Gardenia

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

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Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Dorr Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Dowd Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Dry Canyon	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County; City of Santa Clarita
Dry Canyon	_	LACFCD	H-3940	_	City of Calabasas; Los Angeles County
East Basin	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Elizabeth Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Elizabeth Lake	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Elizabeth Lake Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Eller Slough	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Elsmere Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	City of Santa Clarita
Encino Reservoir	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Entrance Channel (Marina Del Ray)	12/02/1980	LACFCD	H-3940	December 1979	City of Los Angeles
Escondido Canyon	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-09- J-0001	March 2014	Los Angeles County
Fenner Canyon Creek	_	LACFCD	H-3940	_	Los Angeles County
Fish Harbor	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Flood Control Channel to Aliso Creek	_	LACFCD	H-3940	_	City of Los Angeles
Flowline No. 1	04/15/1980	LACFCD	H-3940	October 1978	City of Santa Fe Springs
Garapito Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Gavin Canyon Creek	_	LACFCD	H-3940	_	Los Angeles County; City of Santa Clarita
Gorman Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
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Table 29: Summary of Contracted Studies Included in this FIS Report, continued

				Work	
Flooding Source	FIS Report Dated	Contractor	Number	Completed Date	Affected Communities
Gorman Canyon Creek	09/29/1989	LACFCD	H-3940	1984	City of Santa Clarita
Graham Canyon Creek	_	LACFCD	H-3940	_	Los Angeles County
Grandview Canyon Creek	_	LACFCD	H-3940	_	Los Angeles County
Grandview Canyon Creek (2)	_	LACFCD	H-3940	_	Los Angeles County
Harbor Lake	_	LACFCD	H-3940	_	City of Los Angeles
Haskell Canyon	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-09- J-0001	March 2014	City of Santa Clarita
Hasley Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County
Holcomb Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Holmes Creek	_	LACFCD	H-3940	_	Los Angeles County
Hughes Lake	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Iron Canyon	06/02/2021	HDR Engineering Inc.	EMF-2003- CO-0045, Task Order 33	February 2010	Los Angeles County; City of Santa Clarita
Jesus Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Kagel Canyon	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles, Los Angeles County
Kentucky Springs Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County
Lake Lindero	08/03/1998	Ensign & Buckley	EMW-93-C- 4151	_	City of Agoura Hills; City of Westlake Village
La Mirada Creek	07/02/1980	LACFCD	H-3940	January 1979	City of La Mirada
Lake Palmdale	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

	FIC Demant			Work	∧ffo ot o d
Flooding Source	FIS Report Dated	Contractor	Number	Completed Date	Affected Communities
Lake Street Overflow	01/20/1999	Ensign & Buckley	EMQ-90-C- 9133		City of Burbank
Las Flores Canyon	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County; City of Malibu
Las Flores Canyon	_	LACFCD	H-3940	_	Los Angeles County
Las Virgenes Creek	01/01/2016	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	August 2010	City of Calabasas; Los Angeles County
Leaming Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Lemontaine Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Liberty Canyon	12/02/1980	LACFCD	H-3940	December 1979	City of Agoura Hills; Los Angeles County
Limekiln Creek	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Lindero Canyon	08/03/1998	Ensign & Buckley	EMW-93-C- 4151	08/03/1998	City of Agoura Hills
Lion Canyon	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County
Little Rock Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Little Rock Reservoir	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Little Rock Wash	01/06/1982	LACFCD	H-3940	May 1979, Revised November 1985	City of Lancaster; Los Angeles County
Little Rock Wash	_	LACFCD	H-3940	_	Los Angeles County
Little Rock Wash - Profile A	01/06/1982	Rick Engineering Company	EMW-84- 1639	November 1985	City of Palmdale
Little Rock Wash - Profile A	01/06/1982	Rick Engineering Company	EMW-84- 1639	November 1985	City of Palmdale

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

	FIS Report			Work Completed	Affected
Flooding Source	Dated	Contractor	Number	Date	Communities
Little Rock Wash - Profile A	01/06/1982	Rick Engineering Company	EMW-84- 1639	_	Los Angeles County
Little Rock Wash - Profile A	01/06/1982	Rick Engineering Company	EMW-84- 1639	November 1985	Los Angeles County; City of Palmdale
Little Rock Wash - Profile A	01/06/1982	Rick Engineering Company	EMW-84- 1639	November 1985	Los Angeles County; City of Palmdale
Little Rock Wash - Profile B	01/06/1982	LACFCD	H-3940	May 1979, Revised November 1985	City of Palmdale
Little Rock Wash - Profile C	01/06/1982	LACFCD	H-3940	May 1979, Revised November 1985	Los Angeles County; City of Palmdale
Little Tujunga Wash	12/02/1980	LACFCD	H-3940	August 1979	Los Angeles County; City of Los Angeles
Lobo Canyon	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Lockheed Drain Channel	01/20/1999	LACFCD	H-3940	July 1978	City of Burbank; City of Los Angeles
Lockheed Storm Drain	_	LACFCD	H-3940	_	City of Burbank; City of Los Angeles
Long Canyon	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County
Lopez Canyon Channel	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County; City of Los Angeles
Los Angeles County Flood Control Channel	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Los Angeles County Flood Control Channel to Aliso Creek	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Los Angeles County Storm Drain	12/02/1980	LACFCD	H-3940	December 1979	City of Carson; Los Angeles County
Los Angeles County Storm Drain (2)	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C- 2248	May 1991	City of Carson

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

				Work	
Flooding Source	FIS Report Dated	Contractor	Number	Completed Date	Affected Communities
Los Angeles Harbor	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Los Angeles Reservoir	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Los Angeles River	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C- 2248	May 1991	City of Compton; City of Cudah; City of Long Beach; City of Los Angeles; Los Angeles County; City of Paramount; City of South Gate
Los Angeles River Flood Control Channel	03/16/1981	LACFCD	H-3940	July 1978	City of Burbank
Los Cerritos Channel (1)	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C- 2248	May 1991	City of Long Beach; City of Los Angeles
Lyon Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County; City of Santa Clarita
Main Channel	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Malaga Canyon	_	LACFCD	H-3940	_	City of Palos Verdes Estates
Malibu Creek	12/02/1980	LACFCD	H-3940	December 1979	City of Malibu, Los Angeles County
Malibu Lake	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Marina Del Ray	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County; City of Los Angeles
Marine Stadium	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C- 2248	May 1991	City of Long Beach
Medea Creek	08/03/1998	Ensign & Buckley	EMW-93-C- 4151	_	City of Agoura Hills; Los Angeles County
Middle Harbor	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C- 2248	May 1991	City of Long Beach
Mill Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

	FIS Report			Work Completed	Affected
Flooding Source	Dated	Contractor	Number	Date	Communities
Milton B. Arthur Lakes	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C- 2248	May 1991	City of Long Beach
Mint Canyon Creek	06/02/2021	HDR Engineering Inc.	EMF-2003- CO-0045, Task Order 33	February 2010	Los Angeles County; City of Santa Clarita
Mint Canyon Creek Overflow	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	City of Santa Clarita
Mint Canyon Spring	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Montebello Municipal Golf Course Pond	09/26/2008	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C- 2248	May 1991	City of Montebello
Muscal Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Myrick Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Newhall Creek	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Orders HSFE09-09- J-0001; HSFE09-14- J-0025	March 2014	City of Santa Clarita
Newhall Creek Left Overbank 2	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-14- J-0025	July 2015	City of Santa Clarita
Newhall Creek Left Overbank 3	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-14- J-0025	July 2015	City of Santa Clarita
Newhall Creek Right Overbank 1	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-14- J-0025	July 2015	City of Santa Clarita
Oak Springs Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County; City of Santa Clarita

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

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Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Oak Springs Canyon Creek Overflow	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County; City of Santa Clarita
Oakgrove Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Old Topanga Canyon	12/21/2018	BakerAECOM	HSFEHQ- D-09-0368	2016	Los Angeles County
Oro Fino Canyon Creek	09/29/1989	LACFCD	H-3940	1984	City of Santa Clarita
Oso Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Pacific Ocean	04/21/2021	BakerAECOM	HSFEHQ-09- D-0368, Task Order HSFE09-12-J- 0005	October 2015	El Segundo, City of; Hermosa Beach, City of; Long Beach, City of; Los Angeles, City of; Los Angeles County, Unincorporated Areas; Malibu, City of; Manhattan Beach, City of; Palos Verdes Estates, City of; Rancho Palos Verdes, City of; Redondo Beach, City of; Santa Monica, City of; Torrance, City of
Pacific Terrace Harbor	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C- 2248	May 1991	City of Long Beach
Pacoima Channel	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Pacoima Wash	12/02/1980	LACFCD	H-3940	August 1979	Los Angeles County; City of Los Angeles
Pallett Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Pallett Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Palmdale Ditch		LACFCD	H-3940		Los Angeles County
Palo Comando Creek	08/03/1998	Ensign & Buckley	EMW-93-C- 4151	_	City of Agoura Hills; Los Angeles County

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

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Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Palomas Canyon Creek	_	LACFCD	H-3940	_	Los Angeles County
Pico Canyon	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County; City of Santa Clarita
Pine Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Pine Canyon Creek	_	Rick Engineering Company	EMW-84- 1639	November 1985	City of Palmdale
Piru Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Placerita Creek	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-13- J-0158	July 2015	Los Angeles County; City of Santa Clarita
Placerita Creek Overflow	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	City of Santa Clarita
Plum Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County
Plum Canyon Creek	06/02/2021	STARRII	HSFEHQ- 09-D-0368	June 2019	Los Angeles County
Portal Ridge Wash	01/06/1982	LACFCD	H-3940	March 1979	City of Lancaster
Potrero Canyon	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County
Potrero Valley Creek (Westlake Lake)	_	LACFCD	H-3940	_	City of Westlake Village
Puzzle Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Pyramid Lake	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Quail Lake	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County

Table 29. Sullillar		leu Studies IIIC			
Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Quigley Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-13- J-0158	July 2015	City of Santa Clarita
Railroad Canyon	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order Task Order HSFE09-09- J-0001	March 2014	City of Santa Clarita
Railroad Canyon Creek Left Overbank	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order Task Order HSFE09-09- J-0001	March 2014	City of Santa Clarita
Ramirez Canyon	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County; City of Malibu
Reservoir near UCLA	_	LACFCD	H-3940		City of Los Angeles
Rice Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Rio Hondo Channel	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C- 2248	May 1991	City of Bell Gardens; City of Downey; Los Angeles County; City of Montebello; City of Pico Rivera; City of South Gate
Rio Hondo Channel Tributary	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C- 2248	May 1991	City of Montebello
Roberts Canyon Creek	1	LACFCD	H-3940	1	City of Azusa
Rock Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Romero Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Rustic Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	City of Los Angeles
Salt Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
San Dimas Wash	_	LACFCD	H-3940	_	City of San Dimas

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
San Francisquito Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-09- J-0001	March 2014	Los Angeles County; City of Santa Clarita
San Gabriel River	12/02/1980	LACFCD	H-3940	December 1979	Azusa, City of; Bellflower, City of; Cerritos, City of; Downey, City of; Lakewood, City of; Long Beach, City of; Los Angeles County, Unincorporated Areas; Norwalk, City of; Pico Rivera, City of
San Martinez Chiquito Canyon	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County
San Martinez Grande Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County
San Pedro Bay	07/06/1998	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C- 2248	May 1991	City of Long Beach
Sand Canyon Creek	06/02/2021	HDR Engineering Inc.	EMF-2003- CO-0045, Task Order 33	February 2010	Los Angeles County; City of Santa Clarita
Sand Canyon Creek Tributary 1	_	LACFCD	H-3940	1984	City of Santa Clarita
Sand Canyon Creek Tributary 2	_	LACFCD	H-3940	1984	City of Santa Clarita
Santa Clara River	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Orders HSFE09-09- J-0001; HSFE09-14- J-0025	July 2015	Los Angeles County; City of Santa Clarita

Table 29: Summary	or Contract	ed Studies inc	idded iii tiiis		Continued
Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Santa Clara River Overflow	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Orders HSFE09-09- J-0001; HSFE09-14- J-0025	July 2015	Los Angeles County
Santa Maria Canyon	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Santa Susana Pass Wash	12/02/1999	LACFCD	H-3940	August 1979	City of Los Angeles
Santa Ynez Canyon Reservoir	12/02/1999	LACFCD	H-3940	August 1979	City of Los Angeles
Savage Creek	01/16/1981	LACFCD	H-3940	August 1978	City of Whittier
Sierra Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Sloan Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Soledad Canyon	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County
South Fork Santa Clara River	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-09- J-0001	March 2014	City of Santa Clarita
South Fork Santa Clara River Tributary	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-09- J-0001	March 2014	City of Santa Clarita
South Portal Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Spade Spring Canyon Creek	06/02/2021	HDR Engineering Inc.	EMF-2003- CO-0045, Task Order 33	February 2010	Los Angeles County
Stokes Canyon	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Sullivan Canyon Creek	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles

Table 25. Sullillar	or continuo	leu Studies iiic	idaca iii tiii3		Continuou
Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Sunshine Canyon Creek	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Tacobi Creek	_	LACFCD	H-3940	August 1978	City of Whittier
Tapia Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Texas Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County
Tick Canyon	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County
Tonner Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Topanga Canyon	12/21/2018	BakerAECOM	HSFEHQ- D-09-0368	2016	Los Angeles County; City of Los Angeles
Towsley Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County; City of Santa Clarita
Trancas Creek	09/26/2008	LACFCD	H-3940	December 1979	City of Malibu
Tributary to Unnamed Canyon	06/02/2021	STARR II	HSFE60- 15-D-0005	October 2017	Los Angeles County; City of Santa Clarita
Triunfo Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County; City of Westlake Village
Turnbull Canyon	01/16/1981	LACFCD	H-3940	August 1978	City of Whittier
Unnamed Canyon Creek (Serra Retreat Area)	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County; City of Malibu
Unnamed Stream Main Reach	01/06/2016	HDR Engineering Inc.	EMF-2003- CO-0045, Task Order 15	February 2012	City of Palos Verdes Estates
Unnamed Stream Tributary 1	01/06/2016	HDR Engineering Inc.	EMF-2003- CO-0045, Task Order 15	February 2012	City of Palos Verdes Estates
Unnamed Stream Tributary 2	01/06/2016	HDR Engineering Inc.	EMF-2003- CO-0045, Task Order 15	February 2012	City of Palos Verdes Estates

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

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Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Upper Los Angeles River Left Overbank	12/02/1980	Schaaf & Wheeler, Consulting Civil Engineers	EMW-86-C- 2248	May 1991	City of Los Angeles
Vasquez Canyon	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-10- J-0002	July 2015	Los Angeles County
Villa Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Vine Creek	_	LACFCD	H-3940	_	City of West Covina
Violin Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Wayside Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Weldon Canyon	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
West Basin	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
West Channel	12/02/1980	LACFCD	H-3940	August 1979	City of Los Angeles
Westlake Reservoir	04/04/2018	LACFCD	D-0368	2015	City of Westlake Village
Whitney Canyon Creek	06/02/2021	BakerAECOM	HSFEHQ- 09-D-0368, Task Order HSFE09-14- J-0025	July 2015	Los Angeles County; City of Santa Clarita
Wildwood Canyon Creek	_	LACFCD	H-3940	1984	City of Santa Clarita
Wiley Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County; City of Santa Clarita
Willow Springs Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Young Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	Los Angeles County
Zuma Canyon Creek	12/02/1980	LACFCD	H-3940	December 1979	City of Malibu, Los Angeles County
UNKNOWN 1 near W. 3rd Street	_	LACFCD	H-3940	December 1980, November 1985	City of Los Angeles; City of West Hollywood
UNKNOWN 2 near W. 3rd Street	_	LACFCD	H-3940		City of Los Angeles

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

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	FIS Report			Work Completed	Affected
Flooding Source	Dated	Contractor	Number	Date	Communities
UNKNOWN 3 near W. 3rd	Dated			Date	City of Los
Street	_	LACFCD	H-3940	_	Angeles
UNKNOWN 1 near 4th					City of Los
Street	_	LACFCD	H-3940	_	Angeles
UNKNOWN 1 near			11.0040		City of Los
Aberdeen Avenue	_	LACFCD	H-3940	_	Angeles
UNKNOWN 1 near		LACEOD	11.0040		City of Los
Alameda Street	_	LACFCD	H-3940		Angeles
UNKNOWN 2 near		LACFCD	H-3940		City of Los
Alameda Street	_	LACFOD	11-3940		Angeles
UNKNOWN 1 near		LACFCD	H-3940	August	City of
Alaska Avenue		LAGI OD	11-00-10	1978	Torrance
UNKNOWN 1 near		LACFCD	H-3940	August	City of
Amsler Street			11 00 10	1978	Torrance
UNKNOWN 1 to		Rick	EMW-84-	November	City of
Anaverde Creek	_	Engineering Company	1639	1985	Palmdale
UNKNOWN 1 near Anza		Company		August	City of
Avenue	_	LACFCD	H-3940	1978	Torrance
UNKNOWN 1 to Arroyo				1970	City of Hidden
Calabasas	_	LACFCD	H-3940	_	Hills
UNKNOWN 2 to Arroyo					City of
Calabasas	_	LACFCD	H-3940		Calabasas
UNKNOWN 1 near Baile			11.0040		City of Los
Avenue	_	LACFCD	H-3940	_	Angeles
UNKNOWN 2 near Baile		LACFCD	H-3940		City of Los
Avenue	_	LACECD	П-394U	<del></del>	Angeles
UNKNOWN 1 near S.		LACFCD	H-3940		City of Los
Beverley Glen Boulevard		L/(01 0B	11 00+0		Angeles
UNKNOWN 1 to Big Rock		LACFCD	H-3940		Los Angeles
Wash					County
UNKNOWN 1-A to Big Rock Wash	_	LACFCD	H-3940	_	Los Angeles
					County
UNKNOWN 2 to Big Rock Wash	_	LACFCD	H-3940	_	Los Angeles County
UNKNOWN 1 near Blinn					City of Los
Avenue	_	LACFCD	H-3940	_	Angeles
UNKNOWN 1 to Broad					Los Angeles
Canyon Creek	_	LACFCD	H-3940	_	County
UNKNOWN 2 to Broad			11.0040		Los Angeles
Canyon Creek	_	LACFCD	H-3940	_	County
UNKNOWN 3 to Broad		LACECD	LI 2040		Los Angeles
Canyon Creek		LACFCD	H-3940		County
UNKNOWN 1 to		LACFCD	H-3940		Los Angeles
California Aqueduct		LACI OD	11-0340		County
UNKNOWN 2 to	_	LACFCD	H-3940	_	Los Angeles
California Aqueduct		2,(0, 0)	11 00-10		County
UNKNOWN 3 to	_	LACFCD	H-3940	_	Los Angeles
California Aqueduct					County
UNKNOWN 4 to	_	LACFCD	H-3940	_	Los Angeles
California Aqueduct		-			County

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

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	FIS Report			Work Completed	Affected
Flooding Source	Dated	Contractor	Number	Date	Communities
UNKNOWN 5 to	Datod			Date	Los Angeles
California Aqueduct	_	LACFCD	H-3940	_	County
·					City of
UNKNOWN 1 near	_	LACFCD	H-3940	June 1981	Redondo
Camino Real Calle					Beach
UNKNOWN 1 near		LACFCD	H-3940		City of Los
Chaparal Street	_	LACECD	H-3940	_	Angeles
UNKNOWN 1 near Childs		LACFCD	H-3940		City of Los
Court	_	LACIOD	11-3940	_	Angeles
UNKNOWN 1 near Club		LACFCD	H-3940		City of Los
View Drive		L/(01 0D	11 00 40		Angeles
UNKNOWN 1 near		LACFCD	H-3940		City of Los
Denker Avenue		2, (0. 02	11 00 10		Angeles
UNKNOWN 1 near	_	LACFCD	H-3940	_	Los Angeles
Edwards AF Base					County
UNKNOWN 2 near	_	LACFCD	H-3940	_	Los Angeles
Edwards AF Base					County
UNKNOWN 2-A near Edwards AF Base	_	LACFCD	H-3940	_	Los Angeles
UNKNOWN 1 near					County
Eubank Avenue	_	LACFCD	H-3940	_	City of Los Angeles
UNKNOWN 1 near Glade					City of Los
Avenue	_	LACFCD	H-3940		Angeles
UNKNOWN 2 near Glade					City of Los
Avenue	_	LACFCD	H-3940	_	Angeles
UNKNOWN 1 to					City of Los
Glenoaks Boulevard	_	LACFCD	H-3940	_	Angeles
UNKNOWN 2 to			11.0040		City of Los
Glenoaks Boulevard	_	LACFCD	H-3940	_	Angeles
UNKNOWN 3 to		1.40500	11.0040		City of Los
Glenoaks Boulevard	_	LACFCD	H-3940	_	Angeles
UNKNOWN 1 near Gould					City of
Avenue	_	LACFCD	H-3940	June 1981	Redondo
					Beach
UNKNOWN 1 near		LACFCD	H-3940		City of Los
Grenola Street			11 00 10		Angeles
UNKNOWN 1 near N.	_	LACFCD	H-3940	_	City of Los
Hoover Street					Angeles
UNKNOWN 1 near S. La	_	LACFCD	H-3940	l —	City of Los
Cienega Boulevard				ļ	Angeles
UNKNOWN 1 near Lake		Rick	EMW-84-	November	City of
Palmdale	_	Engineering	1639	1985	Palmdale
UNKNOWN 1 near Laurel		Company		<del> </del>	City of Los
Canyon Boulevard	_	LACFCD	H-3940	-	Angeles
UNKNOWN 1 to Little					Los Angeles
Rock Wash	_	LACFCD	H-3940	-	County
UNKNOWN 2 to Little				1	Los Angeles
Rock Wash	-	LACFCD	H-3940	-	County
UNKNOWN 3 to Little					Los Angeles
Rock Wash	_	LACFCD	H-3940	-	County
UNKNOWN 1 near Long		1.40505	11.0040		City of
Beach Freeway		LACFCD	H-3940	-	Lynwood
		261		•	

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

FIS Report   Dated   Contractor   Number   Completed   Communities   Completed   Communities   Contractor   Number   Contractor   Completed   Communities   Contractor   Con					Work	
UNKNOWN 1 near Louise						
Avenue	•	Dated	Contractor	Number	Date	
LNKNOWN 1 near   LACFCD   H-3940   City of Los Angeles		_	LACFCD	H-3940	_	
Lucerne Boulevard         —         LACFCD         H-3940         —         Angeles           UNKNOWN 1 near S. Magnolia Avenue         —         LACFCD         H-3940         —         City of Los Angeles           UNKNOWN 1 near Magnolia Avenue         —         LACFCD         H-3940         —         City of Palos Verdes Estates           UNKNOWN 2 to Malaga Canyon Creek         —         LACFCD         H-3940         —         City of Palos Verdes Estates           UNKNOWN 2-4 to Malaga Canyon Creek         —         LACFCD         H-3940         —         City of Palos Verdes Estates           UNKNOWN 2-4 to Malaga Canyon Creek         —         LACFCD         H-3940         —         City of Palos Verdes Estates           UNKNOWN 1 near         —         LACFCD         H-3940         —         City of Los Angeles           UNKNOWN 1 near         —         LACFCD         H-3940         —         City of Los Angeles           UNKNOWN 1 near Mines Avenue         —         LACFCD         H-3940         —         City of Los Angeles           UNKNOWN 1 near Morisck Canyon Creek         —         LACFCD         H-3940         —         City of Los Angeles           UNKNOWN 1 near Overland Avenue         —         LACFCD         H-3940         —						-
LACFCD		_	LACFCD	H-3940	_	
Main Street						Angeles
UNKNOWN 1 near Magnolia Avenue UNKNOWN 1 to Malaga Canyon Creek UNKNOWN 2 to Malaga Canyon Creek UNKNOWN 2 to Malaga Canyon Creek UNKNOWN 2-A to Malaga Canyon Creek UNKNOWN 2-A to Malaga Canyon Creek UNKNOWN 1 near UNKNOWN 1 near UNKNOWN 1 near Overland Avenue UNKNOWN 1 to Myrick Canyon Creek UNKNOWN 2 near Overland Avenue UNKNOWN 2 near Overland Avenue UNKNOWN 1 near Overland Avenue UNKNOWN 1 near Overland Avenue UNKNOWN 1 near UNKNOWN 1 near Overland Avenue UNKNOWN 1 near UNKNOWN 1 near Overland Avenue UNKNOWN 1 near Overland Avenue UNKNOWN 1 near UNKNOWN 1 near Overland Avenue UNKNOWN 1 near UNK		_	LACFCD	H-3940	_	City of Burbank
Magnolia Avenue						City of Loo
UNKNOWN 1 to Malaga		_	LACFCD	H-3940	_	
Canyon Creek UNKNOWN 2 to Malaga Canyon Creek UNKNOWN 2-A to Marathon Street UNKNOWN 1 near UNKNOWN 1 near Melrose Avenue UNKNOWN 1 near Mines Avenue UNKNOWN 1 to Myrick Canyon Creek UNKNOWN 1 near Mines UNKNOWN 1 near UNKNOWN 2 near Overland Avenue UNKNOWN 1 near W. Olympic Boulevard UNKNOWN 1 to Pallett Creek UNKNOWN 1-A to Pallett Creek UNKNOWN 1-A 10 Pallett Creek UNKNOWN 1-A-10 Pallett Creek UNKNOWN 1-B to Pallett UNKNOWN 1-B to Pallett Creek UNKNOWN 1-B to Pallett Cree	-					
UNKNOWN 2 to Malaga		_	LACFCD	H-3940	_	
Canyon Creek UNKNOWN 2-A to Malaga Canyon Creek UNKNOWN 1 near Malaga Canyon Creek UNKNOWN 1 near Marathon Street UNKNOWN 1 near Melrose Avenue UNKNOWN 1 near Mines Avenue UNKNOWN 1 to Myrick Canyon Creek UNKNOWN 1 to Myrick Canyon Creek UNKNOWN 1 near Overland Avenue UNKNOWN 1 near UNKNOWN 1 near UNKNOWN 1 near Worlose Avenue UNKNOWN 1 near UNKNOWN 1 near UNKNOWN 1 to Myrick Canyon Creek UNKNOWN 2 near Overland Avenue UNKNOWN 2 near Overland Avenue UNKNOWN 2 near Overland Avenue UNKNOWN 3 near Overland Avenue UNKNOWN 1 near Overland Avenue UNKNOWN 1 near Overland Avenue UNKNOWN 1 near UNKNOWN 1 nea						
UNKNOWN 2-A to Malaga Canyon Creek		_	LACFCD	H-3940	_	Verdes Estates
Malaga Canyon Creek         —         LACFCD         H-3940         —         Verdes Estates           UNKNOWN 1 near Marathon Street         —         LACFCD         H-3940         —         City of Los Angeles           UNKNOWN 1 near Mines Avenue         —         LACFCD         H-3940         —         City of Los Angeles           UNKNOWN 1 near Mines Avenue         —         LACFCD         H-3940         —         City of Los Montebello           UNKNOWN 1 to Myrick Canyon Creek         —         LACFCD         H-3940         —         Los Angeles County           UNKNOWN 1 near Coyerland Avenue         —         LACFCD         H-3940         —         City of Los Angeles           UNKNOWN 2 near Coyerland Avenue         —         LACFCD         H-3940         —         City of Los Angeles           UNKNOWN 1 near World Avenue         —         LACFCD         H-3940         —         City of Los Angeles           UNKNOWN 1 near World Avenue         —         LACFCD         H-3940         —         City of Los Angeles           UNKNOWN 1 near World Avenue         —         LACFCD         H-3940         —         City of Los Angeles           UNKNOWN 1 near No Olympic Boulevard         —         LACFCD         H-3940         —         Los Angel				11.0040		
Marathon Street — LACFCD H-3940 — Angeles UNKNOWN 1 near Melrose Avenue — LACFCD H-3940 — City of Los Avenue — LACFCD H-3940 — City of Avenue — LACFCD H-3940 — City of Montebello UNKNOWN 1 to Myrick — LACFCD H-3940 — County UNKNOWN 1 near — LACFCD H-3940 — City of Los Avenue — LACFCD H-3940 — City of Los Overland Avenue — LACFCD H-3940 — City of Los Overland Avenue — LACFCD H-3940 — City of Los Overland Avenue — LACFCD H-3940 — City of Los Overland Avenue — LACFCD H-3940 — City of Los Overland Avenue — LACFCD H-3940 — City of Los Olympic Boulevard — LACFCD H-3940 — City of Los Olympic Boulevard — LACFCD H-3940 — County UNKNOWN 1 to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-A-1 to Pallett Creek — LACFCD H-3940 — Los Angeles Pallett Creek — LACFCD H-3940 — Los Angeles Pallett Creek — LACFCD H-3940 — County UNKNOWN 1-A-2 to Pallett Creek — LACFCD H-3940 — Los Angeles Pallett Creek — LACFCD H-3940 — County UNKNOWN 1-B-1 to Pallett — LACFCD H-3940 — Los Angeles Creek — LACFCD H-3940 — County UNKNOWN 1-B-1 to Pallett — LACFCD H-3940 — County UNKNOWN 1-B-1 to Pallett — LACFCD H-3940 — County UNKNOWN 1-B-1 to Pallett — LACFCD H-3940 — County UNKNOWN 1-C to Pallett — LACFCD H-3940 — County UNKNOWN 1-C to Pallett — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 to Paso — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 to Paso — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 to Paso — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 to Portal — LACFCD H-3940 — County UNKNOWN 1 to Portal — LACFCD H-3940 — County UNKNOWN 1 to Portal — LACFCD H-3940 — County UNKNOWN 1 to Portal — LACFCD H-3940 — County UNKNOWN 1 to Portal — LACFCD H-3940 — County	Malaga Canyon Creek	_	LACECD	H-3940	_	Verdes Estates
Marathon Street UNIKNOWN 1 near Melrose Avenue UNIKNOWN 1 near Mines Avenue UNIKNOWN 1 near Mines Avenue UNIKNOWN 1 to Myrick Canyon Creek Canyon Creek UNIKNOWN 1 near Uverland Avenue UNIKNOWN 1 near UNIKNOWN 1 near UVERNOWN 1 near UVERNOWN 1 near UNIKNOWN 1 near UVERNOWN 1 near UVERNOWN 1 near UNIKNOWN 2 near UNIKNOWN 1 to Pallett UNIKNOWN 1 to Pallett UNIKNOWN 1 to Pallett UNIKNOWN 1 -A to Pallett UNIKNOWN 1 -B	UNKNOWN 1 near		LACECD	11.2040		City of Los
Melrose Avenue — LACFCD H-3940 — Angeles UNKNOWN 1 near Mines Avenue — LACFCD H-3940 — City of Montebello UNKNOWN 1 to Myrick Canyon Creek — LACFCD H-3940 — County UNKNOWN 1 near Overland Avenue — LACFCD H-3940 — City of Los Angeles UNKNOWN 2 near Overland Avenue — LACFCD H-3940 — City of Los Overland Avenue — LACFCD H-3940 — City of Los Overland Avenue — LACFCD H-3940 — City of Los Olympic Boulevard — LACFCD H-3940 — City of Los Olympic Boulevard — LACFCD H-3940 — County UNKNOWN 1 to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-A to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-A-1 to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-A-2 to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-B to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-B to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-B-1 to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-B-1 to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-B-1 to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-B-1 to Pallett Creek — LACFCD H-3940 — County UNKNOWN 1-B-1 to Pallett Creek — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 to Paso Robles Avenue — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 near — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 to Portal — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 to Portal — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 to Portal — LACFCD H-3940 — Los Angeles County UNKNOWN 1-A to Portal — LACFCD H-3940 — Los Angeles	Marathon Street	_	LACECD	H-3940	_	
Melrose Avenue UNKNOWN 1 near Mines Avenue UNKNOWN 1 to Myrick Canyon Creek UNKNOWN 1 near Overland Avenue UNKNOWN 2 near Overland Avenue UNKNOWN 1 near W. Olympic Boulevard UNKNOWN 1 to Pallett Creek UNKNOWN 1-A to Pallett Creek UNKNOWN 1-A to Pallett Creek UNKNOWN 1-A to Pallett Creek UNKNOWN 1-B to Pallett Creek UNKNOWN 1 to Paso Robles Avenue UNKNOWN 1 to Paso Robles Avenue UNKNOWN 1 to Portal UNKNOWN 1-B to Margeles UNKNOWN 1-B to Margeles UNKNOWN 1-B to Margeles UNKNOWN 1-B to Margeles	UNKNOWN 1 near		LACECD	H 3040		City of Los
Avenue	Melrose Avenue	_	LACFOD	H-3940		
AVenue UNKNOWN 1 to Myrick Canyon Creek — LACFCD H-3940 — City of Los Angeles County UNKNOWN 1 near — LACFCD H-3940 — City of Los Angeles UNKNOWN 2 near — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 near W. Olympic Boulevard — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 to Pallett — LACFCD H-3940 — County UNKNOWN 1-A-1 to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-A-1 to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-A-2 to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-B to Pallett — LACFCD H-3940 — Los Angeles County UNKNOWN 1-B-1 to — LACFCD H-3940 — Los Angeles County UNKNOWN 1-B-1 to — LACFCD H-3940 — Los Angeles County UNKNOWN 1-B-1 to — LACFCD H-3940 — Los Angeles County UNKNOWN 1-C to Pallett — LACFCD H-3940 — Los Angeles County UNKNOWN 1-C to Pallett — LACFCD H-3940 — County UNKNOWN 1-C to Pallett — LACFCD H-3940 — County UNKNOWN 1-C to Pallett — LACFCD H-3940 — City of Los Angeles Creek — LACFCD H-3940 — City of Los Angeles County UNKNOWN 1-C to Pallett — LACFCD H-3940 — City of Los Angeles County UNKNOWN 1 to Paso Robles Avenue — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 near — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 to Portal Ridge Wash — LACFCD H-3940 — City of Los Angeles County UNKNOWN 1 to Portal UNKNOWN 1-O P	UNKNOWN 1 near Mines		LACECD	H-3040		
Canyon Creek — LACFCD — H-3940 — County UNKNOWN 1 near Overland Avenue — LACFCD — H-3940 — City of Los Angeles UNKNOWN 2 near — LACFCD — H-3940 — City of Los Angeles UNKNOWN 1 near W. Olympic Boulevard — LACFCD — H-3940 — City of Los Angeles UNKNOWN 1 near W. Olympic Boulevard — LACFCD — H-3940 — County UNKNOWN 1 to Pallett — LACFCD — H-3940 — Los Angeles Creek — LACFCD — H-3940 — Los Angeles County UNKNOWN 1-A-1 to Pallett Creek — LACFCD — H-3940 — Los Angeles County UNKNOWN 1-A-2 to — LACFCD — H-3940 — Los Angeles Pallett Creek — LACFCD — H-3940 — Los Angeles County UNKNOWN 1-B-1 to — LACFCD — H-3940 — Los Angeles Creek — LACFCD — LACFCD — Los Angeles County UNKNOWN 1-B-1 to — LACFCD — LACFCD — H-3940 — Los Angeles County UNKNOWN 1-B-1 to — LACFCD — H-3940 — Los Angeles County UNKNOWN 1-C to Pallett — LACFCD — LACFCD — Los Angeles County UNKNOWN 1-C to Pallett — LACFCD — LACFCD — LOS Angeles County UNKNOWN 1 to Paso — LACFCD — LACFCD — County UNKNOWN 1 to Paso — LACFCD — LACFCD — City of Los Angeles UNKNOWN 1 near — LACFCD — LACFCD — City of Los Angeles UNKNOWN 1 to Portal — LACFCD — LACFCD — County UNKNOWN 1 to Portal — LACFCD — County UNKNOWN 1 to Portal — LACFCD — LACFCD — County UNKNOWN 1 to Portal — LACFCD — LACFCD — County UNKNOWN 1 to Portal — LACFCD — County UNKNOWN 1 to Portal — LACFCD — County UNKNOWN 1-A to Portal — LACFCD — LACFCD — County UNKNOWN 1-A to Portal — LACFCD — LACFCD — Lace Angeles			LACIOD	11-33-40		
UNKNOWN 1 near Overland Avenue UNKNOWN 2 near Overland Avenue UNKNOWN 1 near W. Olympic Boulevard UNKNOWN 1 to Pallett Creek UNKNOWN 1-A-1 to Pallett Creek UNKNOWN 1-A-2 to Pallett Creek UNKNOWN 1-B to Pallett UNKNOWN 1-B to Pallett UNKNOWN 1-B-1 to Pallett Creek UNKNOWN 1-B-1 to Pallett Creek UNKNOWN 1-C to Pallett UNKNOWN 1-C to Pallett UNKNOWN 1 to Portal		_	LACECD	H-3940		
Overland Avenue — LACFCD H-3940 — Angeles UNKNOWN 2 near Overland Avenue — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 near W. Olympic Boulevard — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-A to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-A-1 to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-A-2 to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-B-1 to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-B-1 to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-B-1 to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-B-1 to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-B-1 to Pallett Creek — LACFCD H-3940 — Los Angeles County UNKNOWN 1-C to Pallett Creek — LACFCD H-3940 — City of Los Robles Avenue — LACFCD H-3940 — City of Los Robles Avenue — LACFCD H-3940 — City of Los Robles Avenue — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 to Portal UNKNOWN 1 to Portal — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 to Portal — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 to Portal — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 to Portal — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 to Portal — LACFCD H-3940 — City of Los Angeles UNKNOWN 1 to Portal — LACFCD H-3940 — County UNKNOWN 1 to Portal — LACFCD H-3940 — County			2,101.02	11 00 10		•
UNKNOWN 2 near Overland Avenue UNKNOWN 2 near Overland Avenue UNKNOWN 1 near W. Olympic Boulevard UNKNOWN 1 to Pallett Creek UNKNOWN 1 to Pallett Creek UNKNOWN 1-A to Pallett Creek UNKNOWN 1-A-1 to Pallett Creek UNKNOWN 1-A-2 to Pallett Creek UNKNOWN 1-B to Pallett Creek UNKNOWN 1-C to Pallett Creek UNKNO		_	LACFCD	H-3940		
Overland Avenue — LACFCD H-3940 — Angeles  UNKNOWN 1 near W. Olympic Boulevard — LACFCD H-3940 — City of Los Angeles  UNKNOWN 1 to Pallett Creek — LACFCD H-3940 — Los Angeles  Creek — LACFCD H-3940 — Los Angeles  County  UNKNOWN 1-A to Pallett Creek — LACFCD H-3940 — Los Angeles  County  UNKNOWN 1-A-1 to Pallett Creek — LACFCD H-3940 — Los Angeles  County  UNKNOWN 1-A-2 to Pallett Creek — LACFCD H-3940 — Los Angeles  County  UNKNOWN 1-B to Pallett — LACFCD H-3940 — Los Angeles  Creek — LACFCD H-3940 — Los Angeles  County  UNKNOWN 1-B to Pallett — LACFCD H-3940 — Los Angeles  County  UNKNOWN 1-B-1 to Pallett Creek — LACFCD H-3940 — Los Angeles  County  UNKNOWN 1-C to Pallett — LACFCD H-3940 — County  UNKNOWN 1 to Paso Robles Avenue — LACFCD H-3940 — City of Los  Robles Avenue — LACFCD H-3940 — City of Los  Robles Avenue — LACFCD H-3940 — City of Los  Angeles  UNKNOWN 1 near — LACFCD H-3940 — City of Los  Angeles  UNKNOWN 1 to Portal — LACFCD H-3940 — City of Los  Angeles  UNKNOWN 1 to Portal — LACFCD H-3940 — City of Los  Angeles  UNKNOWN 1 to Portal — LACFCD H-3940 — City of Los  Angeles  UNKNOWN 1 to Portal — LACFCD H-3940 — City of Los  Angeles  UNKNOWN 1 to Portal — LACFCD H-3940 — City of Los  County  UNKNOWN 1-A to Portal — LACFCD H-3940 — Los Angeles						
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UNKNOWN 1-A to Pallett Creek  UNKNOWN 1-A-1 to Pallett Creek  UNKNOWN 1-A-1 to Pallett Creek  UNKNOWN 1-A-2 to Pallett Creek  UNKNOWN 1-A-2 to Pallett Creek  UNKNOWN 1-B to Pallett Creek  UNKNOWN 1-B to Pallett Creek  UNKNOWN 1-B-1 to Pallett Creek  UNKNOWN 1-B-1 to Pallett Creek  UNKNOWN 1-C to Pallett Creek  UNKNOWN 1-C to Pallett Creek  UNKNOWN 1-C to Pallett Creek  UNKNOWN 1 to Paso Robles Avenue  UNKNOWN 1 near Pershing Drive  UNKNOWN 1 to Portal Ridge Wash  UNKNOWN 1-A to Portal		_	LACFCD	H-3940	_	County
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Pallett Creek  UNKNOWN 1-A-2 to Pallett Creek  UNKNOWN 1-B to Pallett Creek  UNKNOWN 1-B-1 to Pallett Creek  UNKNOWN 1-C to Pallett Creek  UNKNOWN 1 to Paso Robles Avenue  UNKNOWN 1 near Pershing Drive  UNKNOWN 1-A to Portal Ridge Wash  UNKNOWN 1-A to Portal  UNKNOWN 1-A to Portal  LACFCD  H-3940  LACFCD  H-3940  — LACFCD  H-3940  — LOS Angeles County  Los Angeles County  Los Angeles County  LACFCD  H-3940  — City of Los Angeles County  LACFCD  H-3940  — LACFCD  H-3940  — LACFCD  H-3940  — LOS Angeles County  LACFCD  H-3940  — LOS Angeles County  LACFCD  H-3940  — LOS Angeles County  LOS Angeles			1.40500	11.0040		
Pallett Creek — LACFCD H-3940 — County  UNKNOWN 1-B to Pallett — LACFCD H-3940 — Los Angeles County  UNKNOWN 1-B-1 to — LACFCD H-3940 — Los Angeles County  UNKNOWN 1-C to Pallett — LACFCD H-3940 — Los Angeles County  UNKNOWN 1 to Paso — LACFCD H-3940 — City of Los Angeles County  UNKNOWN 1 near — LACFCD H-3940 — City of Los Angeles  UNKNOWN 1 near — LACFCD H-3940 — City of Los Angeles  UNKNOWN 1 to Portal — LACFCD H-3940 — Los Angeles  UNKNOWN 1 to Portal — LACFCD H-3940 — Los Angeles  UNKNOWN 1-A to Portal — LACFCD H-3940 — Los Angeles	Pallett Creek	_	LACECD	H-3940	_	
UNKNOWN 1-B to Pallett Creek  UNKNOWN 1-B-1 to Pallett Creek  UNKNOWN 1-B-1 to Pallett Creek  UNKNOWN 1-C to Pallett Creek  UNKNOWN 1-C to Pallett Creek  UNKNOWN 1 to Paso Robles Avenue  UNKNOWN 1 near Pershing Drive  UNKNOWN 1 to Portal Ridge Wash  UNKNOWN 1-A to Portal	UNKNOWN 1-A-2 to		LACECD	Ц 2040		Los Angeles
Creek  UNKNOWN 1-B-1 to Pallett Creek  UNKNOWN 1-C to Pallett Creek  UNKNOWN 1 to Paso Robles Avenue  UNKNOWN 1 near Pershing Drive  UNKNOWN 1 to Portal Ridge Wash  LACFCD  H-3940  LACFCD  H-3940  LOS Angeles County  LOS Angeles County  LACFCD  H-3940  City of Los Angeles LACFCD  H-3940  LOS Angeles County  LACFCD  H-3940  LOS Angeles County  LOS Angeles	Pallett Creek	_	LACECD	H-3940	<del></del>	County
UNKNOWN 1-B-1 to Pallett Creek  UNKNOWN 1-C to Pallett Creek  UNKNOWN 1 to Paso Robles Avenue  UNKNOWN 1 near Pershing Drive  UNKNOWN 1 to Portal Ridge Wash  LACFCD  H-3940  LACFCD  H-3940  LOS Angeles County  LACFCD  H-3940  City of Los Angeles LACFCD  H-3940  LACFCD  H-3940  LACFCD  H-3940  LOS Angeles County  LACFCD  H-3940  LOS Angeles County  LOS Angeles County  LOS Angeles County  LACFCD  LACFCD  H-3940  LOS Angeles County  LOS Angeles County  LOS Angeles County  LOS Angeles	UNKNOWN 1-B to Pallett		LACECD	H-30/10		
Pallett Creek — LACFCD H-3940 — County  UNKNOWN 1-C to Pallett — LACFCD H-3940 — Los Angeles County  UNKNOWN 1 to Paso — LACFCD H-3940 — City of Los Angeles  UNKNOWN 1 near — LACFCD H-3940 — City of Los Angeles  UNKNOWN 1 near — LACFCD H-3940 — Los Angeles  UNKNOWN 1 to Portal — LACFCD H-3940 — Los Angeles  UNKNOWN 1-A to Portal — LACFCD H-3940 — Los Angeles		_	LACIOD	11-3940	<del></del>	<del></del>
UNKNOWN 1-C to Pallett Creek  UNKNOWN 1 to Paso Robles Avenue  UNKNOWN 1 near Pershing Drive  UNKNOWN 1 to Portal Ridge Wash  UNKNOWN 1-A to Portal  LACFCD  H-3940  H-3940  LOS Angeles County  LACFCD  H-3940  LOS Angeles County  LACFCD  H-3940  LOS Angeles County  LACFCD  H-3940  LOS Angeles County  LOS Angeles		_	LACECD	H-3940		
Creek     —     LACFCD     H-3940     —     County       UNKNOWN 1 to Paso Robles Avenue     —     LACFCD     H-3940     —     City of Los Angeles       UNKNOWN 1 near Pershing Drive     —     LACFCD     H-3940     —     City of Los Angeles       UNKNOWN 1 to Portal Ridge Wash     —     LACFCD     H-3940     —     Los Angeles County       UNKNOWN 1-A to Portal     —     LACFCD     H-3940     —     Los Angeles			2,101.02	11 00 10		
UNKNOWN 1 to Paso Robles Avenue  UNKNOWN 1 near Pershing Drive  UNKNOWN 1 to Portal Ridge Wash  LACFCD  H-3940  — City of Los Angeles  City of Los Angeles  H-3940  — LACFCD  H-3940  — Los Angeles County  LACFCD  H-3940  — Los Angeles County  Los Angeles		_	LACFCD	H-3940		
Robles Avenue  UNKNOWN 1 near Pershing Drive  UNKNOWN 1 to Portal Ridge Wash  LACFCD  H-3940  H-3940  City of Los Angeles Los Angeles Los Angeles County  LACFCD  H-3940  LOS Angeles County LOS Angeles						<del></del>
UNKNOWN 1 near Pershing Drive  UNKNOWN 1 to Portal Ridge Wash  LACFCD  H-3940  H-3940  LOS Angeles County  LOS Angeles County  LOS Angeles County  LOS Angeles County		_	LACFCD	H-3940	_	
Pershing Drive — LACFCD H-3940 — Angeles  UNKNOWN 1 to Portal — LACFCD H-3940 — Los Angeles  Ridge Wash — LACFCD H-3940 — Los Angeles  UNKNOWN 1-A to Portal — LACFCD H-3940 — Los Angeles						
UNKNOWN 1 to Portal _ LACFCD H-3940 _ Los Angeles County UNKNOWN 1-A to Portal _ LACFCD H-3940 _ Los Angeles		_	LACFCD	H-3940	-	
Ridge Wash — LACFCD H-3940 — County UNKNOWN 1-A to Portal — LACFCD H-3940 — Los Angeles						
UNKNOWN 1-A to Portal LACECD H-3940 Los Angeles		_	LACFCD	H-3940	_	
Ι _ Ι ΙΔΩΕ(Ω) Ι ΗΞΧΥΔΟ Ι _ Ι Ο						i
	Ridge Wash	_	LACFCD	H-3940	-	County

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

				\Mank	
	CIC Deport			Work	Affootod
Flooding Source	FIS Report Dated	Contractor	Number	Completed Date	Affected Communities
UNKNOWN 1-B to Portal	Dated	Contractor	Number	Date	
	_	LACFCD	H-3940	_	Los Angeles
Ridge Wash					County
UNKNOWN 1-C to Portal	_	LACFCD	H-3940		Los Angeles
Ridge Wash					County
UNKNOWN 1 near		LACFCD	H-3940		City of Los
Rexbon Road					Angeles
UNKNOWN 1 near Ripley					City of
Avenue	_	LACFCD	H-3940	June 1981	Redondo
					Beach
UNKNOWN 1 near		LACFCD	H-3940		City of Los
Roscoe Boulevard			11 00 10		Angeles
UNKNOWN 1 near San		LACFCD	H-3940		City of Los
Diego Freeway		E (0) 0E	11 00 10		Angeles
UNKNOWN 1 to San		LACFCD	H-3940		City of Los
Fernando Road		LAGIOD	11-5540		Angeles
UNKNOWN 2 to San		LACFCD	H-3940		City of Los
Fernando Road		LKCI CD	11-3940		Angeles
UNKNOWN 1 to San		LACFCD	H-3940		City of Long
Gabriel River	_	LACECD	H-3940		Beach
UNKNOWN 1 to Santa		LACFCD	H-3940		City of Los
Susana Creek	_	LACECD	H-3940	_	Angeles
UNKNOWN 1-A to Santa		1.40505	11.0040		City of Los
Susana Creek	_	LACFCD	H-3940		Angeles
UNKNOWN 2 to Santa		1.40500	11.0040		City of Los
Susana Creek	_	LACFCD	H-3940	_	Angeles
UNKNOWN 1 near			11.0040		City of Los
Sesnon Boulevard	_	LACFCD	H-3940		Angeles
UNKNOWN 1 near			11.0040		City of Los
Sheldon Street	_	LACFCD	H-3940		Angeles
UNKNOWN 1 near W.			11.0040		Los Angeles
Slausson Avenue	_	LACFCD	H-3940	_	County
UNKNOWN 2 near W.					Los Angeles
Slausson Avenue	_	LACFCD	H-3940	_	County
UNKNOWN 1 near State					City of Los
Highway 110	_	LACFCD	H-3940	_	Angeles
UNKNOWN 1 near W.					City of Los
Sunset Boulevard	_	LACFCD	H-3940	_	Angeles
UNKNOWN 1 near					
Sunset Canyon Drive	_	LACFCD	H-3940	_	City of Burbank
UNKNOWN 1 near					City of Los
Susanna Place	_	LACFCD	H-3940	_	Angeles
UNKNOWN 1 near W.					City of Los
Temple Street	_	LACFCD	H-3940		Angeles
UNKNOWN 1 near				August	City of
Toledo Street	-	LACFCD	H-3940	1978	Torrance
UNKNOWN 2 near	_	LACFCD	H-3940	August	City of
Toledo Street				1978	Torrance
UNKNOWN 1 near UCLA	_	LACFCD	H-3940	_	City of Los
					Angeles
UNKNOWN 1 near Vail	_	LACFCD	H-3940	_	City of
Avenue				<u> </u>	Montebello

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

				Work	
	FIS Report			Completed	Affected
Flooding Source	Dated	Contractor	Number	Date	Communities
UNKNOWN 1 near S.	Batea			Bate	City of Los
Van Ness Avenue	_	LACFCD	H-3940	_	Angeles
UNKNOWN 1 near Via		1.40500	11.0040	August	City of
Valmonte	_	LACFCD	H-3940	1978	Torrance
UNKNOWN 1 near		1.40500	11.0040		City of Los
Victory Boulevard	_	LACFCD	H-3940		Angeles
LINKNIOWNI 4 magr					City of
UNKNOWN 1 near Vincent Street	_	LACFCD	H-3940	June 1981	Redondo
VIIICEIII Street					Beach
UNKNOWN 2 near					City of
Vincent Street	_	LACFCD	H-3940	June 1981	Redondo
					Beach
UNKNOWN 1 to Vine		LACFCD	H-3940		City of West
Creek		LAGI OD	11-00-10		Covina
UNKNOWN 2 to Vine	_	LACFCD	H-3940		City of West
Creek		2,10,02	11 00 10		Covina
UNKNOWN 1 near	_	LACFCD	H-3940	_	City of Los
Walker Avenue					Angeles
UNKNOWN 1 to Weldon	_	LACFCD	H-3940		City of Los
Canyon Creek UNKNOWN 1-A to					Angeles
Weldon Canyon Creek	_	LACFCD	H-3940	_	City of Los
					Angeles
UNKNOWN WEST of Edwards AF Base	_	LACFCD	H-3940	_	Los Angeles County
UNKNOWN WEST of					Los Angeles
Edwards AF Base	_	LACFCD	H-3940		County
UNKNOWN WEST of					Los Angeles
Edwards AF Base	_	LACFCD	H-3940	_	County
UNKNOWN 1 to					Los Angeles
UNKNOWN WEST	_	LACFCD	H-3940	_	County
UNKNOWN 1-A to					Los Angeles
UNKNOWN WEST	_	LACFCD	H-3940	_	County
UNKNOWN 2 to			11.0040		Los Angeles
UNKNOWN WEST	_	LACFCD	H-3940	_	County
UNKNOWN 2-A to		LACEOD	11.0040		Los Angeles
UNKNOWN WEST	_	LACFCD	H-3940	_	County
UNKNOWN 3 to		LACFCD	H-3940		Los Angeles
UNKNOWN WEST	_	LACFOD	11-3940		County
UNKNOWN 3-A to		LACFCD	H-3940		Los Angeles
UNKNOWN WEST	_	LACIOD	11-3940	_	County
UNKNOWN 4 to	I _ 7	LACFCD	H-3940	l	Los Angeles
UNKNOWN WEST		1.0100	11 0040		County
UNKNOWN 5 to	_	LACFCD	H-3940	l _	Los Angeles
UNKNOWN WEST					County
UNKNOWN 6 to	_	LACFCD	H-3940	l –	Los Angeles
UNKNOWN WEST		_			County
UNKNOWN 1 near	_	LACFCD	H-3940	l —	City of Los
Wilshire Boulevard					Angeles
UNKNOWN 2 near Wilshire Boulevard	-	LACFCD	H-3940	l –	City of Los
UNKNOWN 3 near					Angeles City of Los
Wilshire Boulevard	-	LACFCD	H-3940	-	Angeles
vviisiiiie Doulevalu	I			I	Aligeles

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
UNKNOWN 1 near Woodman Place		LACFCD	H-3940		City of Los Angeles

#### 7.2 Community Meetings

The dates of the community meetings held for this Flood Risk Project and any previous Flood Risk Projects are shown in Table 30. These meetings may have previously been referred to by a variety of names (Community Coordination Officer (CCO), Scoping, Discovery, etc.), but all meetings represent opportunities for FEMA, community officials, study contractors, and other invited guests to discuss the planning for and results of the project.

**Table 30: Community Meetings** 

	FIS Report			
Community	Dated	Date of Meeting	Meeting Type	Attended By
		*	Initial CCO	*
Agoura Hills, City of	04/04/2018	*	Final CCO	*
Alhambra, City of ¹		05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Allianibia, City of	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
Arcadia, City of ¹	09/20/2000	11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Artesia, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Artesia, City or	09/20/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Avalon, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Avaiori, City of	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Azusa, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Azusa, City Oi	09/20/2006	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Baldwin Park, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Baldwill Falk, City of	09/20/2006	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Bell, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Bell Gardens, City of	00/26/2009	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Deli Gardens, City of	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, continued

	FIC Dament			
Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Ballflower City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Bellflower, City of	09/26/2006	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Davidur Lilla City of	12/21/2018	*	Initial CCO	*
Beverly Hills, City of ¹	12/21/2010	*	Final CCO	*
	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Bradbury, City of ¹	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Burbank, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
Bulbalik, City of	09/20/2008	11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
	12/21/2018	*	Initial CCO	*
Calabasas, City of		*	Final CCO	*
Carson, City of	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
•		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Corritor City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Cerritos, City of	09/26/2006	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Clarement City of		05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Claremont, City of ¹	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Commerce, City of		05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Commerce, Only of	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
0	00/26/2009	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Compton, City of	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Covina, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Covina, City of	09/20/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Cudahy, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Cudarry, City of	09/20/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Culver City, City of	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
Culver Oity, Oity of	04/21/2021	12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
		05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Diamond Bar, City of 09	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Downey, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Duarte, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Duarte, City of	09/20/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
El Monto, City of	00/26/2009	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
El Monte, City of ¹	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
		10/26/2015	FRR	FEMA, BakerAECOM, and the communities
El Segundo, City of	04/21/2021	12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities

Table 30: Community Meetings, continued

	FIS Report			
Community	Dated	Date of Meeting	Meeting Type	Attended By
		05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Gardena, City of	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
		05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Glendale, City of ¹	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
		05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Glendora, City of ¹	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Hawaiian Gardens,	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
City of ¹	09/20/2006	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Hawthorne, City of ¹	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
riawthorne, City of		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
		10/26/2015	FRR	FEMA, BakerAECOM, and the communities
Hermosa Beach, City of	04/21/2021	12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
	00/00/000	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Hidden Hills, City of	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Lightington Dark	00/00/0000	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Huntington Park, City of ¹	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Industry, City of ¹	00/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
muustry, Orty Or	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, continued

	FIS Report			
Community	Dated	Date of Meeting	Meeting Type	Attended By
Inglewood, City of ¹	12/21/2018	*	Initial CCO	*
inglewood, Oity of	12/2 1/2010	*	Final CCO	*
		05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Irwindale, City of ¹	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
La Canada Flintridge,		05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
City of ¹	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
La Habra Heights,	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
City of ¹	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
La Mirada, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
La Milada, City of		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
La Puente, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
La Fuerite, City of	09/20/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
La Verne, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
-		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
		05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
Lakewood, City of	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, continued

	FIS Report			
Community	Dated	Date of Meeting	Meeting Type	Attended By
Lancaster, City of		05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
Lancaster, Oity of	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Lawndale, City of ¹		05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Lawridaic, Oity of	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Lomita, City of ¹		10/26/2015	FRR	FEMA, BakerAECOM, and the communities
Lorinta, Oity of	04/21/2021	12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
Long Beach, City of		12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
		12/06/2011	Discovery	Representatives of FEMA, USACE, and BakerAECOM
Los Angeles, City of	06/02/2021	10/27/2015	FRR Meeting	Representatives of FEMA, the City, and BakerAECOM
		04/25/2019	Final CCO	Representatives of FEMA, the City, and STARRII

Table 30: Community Meetings, continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
		12/06/2011	Discovery	Representatives of FEMA, USACE, and BakerAECOM
Los Angeles County, Unincorporated Areas	06/02/2021	10/27/2015	FRR Meeting	Representatives of FEMA, the City, and BakerAECOM
		04/25/2019	Final CCO	Representatives of FEMA, the City, and STARRII
		05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
Lynwood, City of	_ynwood, City of 09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Malibu, City of	0.4/0.4/0.004	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
	04/21/2021	12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Manhattan Beach,	04/04/0004	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
City of	04/21/2021	12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
M	00/00/0000	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Maywood, City of ¹	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
		05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Monrovia, City of ¹	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Montobollo City of	00/26/2002	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Montebello, City of	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Monterey Park, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Monterey Park, City or	09/20/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Norwalk, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Norwark, City of	09/20/2006	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
		12/06/2011	Discovery	Representatives of FEMA, USACE, and BakerAECOM
Palmdale, City of	06/02/2021	10/27/2015	FRR Meeting	Representatives of FEMA, the City, and BakerAECOM
		04/25/2019	Final CCO	Representatives of FEMA, the City, and STARRII
Palos Verdes Estates,	0.4/0.4/0.0.4	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
City of	04/21/2021	12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Paramount, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
r aramount, Oity of	09/20/2000	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Pasadena, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
r asadena, Oity of	09/20/2000	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
		05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Pico Rivera, City of	co Rivera, City of 09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Domono City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Pomona, City of ¹	09/20/2000	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Rancho Palos Verdes,	0.4/0.4/0.004	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
City of	04/21/2021	12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities

Table 30: Community Meetings, continued

	FIS Report	Table 30: Comm		
Community	Dated	Date of Meeting	Meeting Type	Attended By
Redondo Beach, City of	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
rtodorido Bodori, Oky or	0 1/2 1/2021	12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Rolling Hills, City of ¹	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
rtolling rillio, oity of	0 1/2 1/2021	12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Rolling Hills Estates,	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
City of ¹	04/21/2021	12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
D 1 0" d		05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Rosemead, City of ¹	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
San Dimas, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
. ,		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
	06/02/2021	12/06/2011	Discovery	Representatives of FEMA, USACE, and BakerAECOM
San Fernando, City of ¹		10/27/2015	FRR Meeting	Representatives of FEMA, the City, and BakerAECOM
		04/25/2019	Final CCO	Representatives of FEMA, the City, and STARRII
		05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
San Gabriel, City of ¹	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
San Marino, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Sair Maillo, City of	09/20/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
		12/06/2011	Discovery	Representatives of FEMA, USACE, and BakerAECOM
Santa Clarita, City of	06/02/2021	10/27/2015	FRR Meeting	Representatives of FEMA, the City, and BakerAECOM
		04/25/2019	Final CCO	Representatives of FEMA, the City, and STARRII

Table 30: Community Meetings, continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Santa Fe Springs,	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
City of		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Out Marin O'test	04/21/2021	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
Santa Monica, City of	0 1/2 1/2021	12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
Sierra Madre, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Sierra Madre, City or	09/20/2006	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Ciara al Lilli Cita a M	04/04/0004	10/26/2015	FRR	FEMA, BakerAECOM, and the communities
Signal Hill, City of ¹	04/21/2021	12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
South El Monte, City of ¹	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
South Et Monte, City of	09/26/2006	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
South Gate, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
South Gate, City of	09/20/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
South Pasadena,	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
City of ¹	09/20/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
		05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Temple City, City of ¹	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
		10/26/2015	FRR	FEMA, BakerAECOM, and the communities
Torrance, City of	04/21/2021	12/06/2016	Final CCO	FEMA, CDWR, BakerAECOM, and the communities
		*	Initial CCO	*
Vernon, City of ¹	12/21/2018	*	Final CCO	*

Table 30: Community Meetings, continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Wolnut City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
Walnut, City of ¹	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
		05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
West Hollywood, City of ¹	09/26/2008	11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Westlake Village,		*	Initial CCO	*
City of	04/04/2018	*	Final CCO	*
Whittier, City of	09/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
,		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

¹No Special Flood Hazard Areas Identified

^{*}No information available

#### **SECTION 8.0 – ADDITIONAL INFORMATION**

Information concerning the pertinent data used in the preparation of this FIS Report can be obtained by submitting an order with any required payment to the FEMA Engineering Library. For more information on this process, see <a href="http://www.fema.gov">http://www.fema.gov</a>.

The additional data that was used for this project includes the FIS Report and FIRM that were previously prepared for Los Angeles County, California and Incorporated Areas, (FEMA 2008).

Table 31 is a list of the locations where FIRMs for Los Angeles County can be viewed. Please note that the maps at these locations are for reference only and are not for distribution. Also, please note that only the maps for the community listed in the table are available at that particular repository. A user may need to visit another repository to view maps from an adjacent community.

**Table 31: Map Repositories** 

Community	Address	City	State	Zip Code
Agoura Hills, City of	Planning Department 30001 Ladyface Court	Agoura Hills	CA	91301
Alhambra, City of ¹	City Hall 111 South First Street	Alhambra	CA	91801
Arcadia, City of ¹	Planning Department 240 West Huntington Drive	Arcadia	CA	91066
Artesia, City of ¹	City Hall 18747 Clarkdale Avenue	Artesia	CA	90701
Avalon, City of	Planning and Building Department 410 Avalon Canyon Road	Avalon	CA	90704
Azusa, City of	Public Works Department 213 East Foothill Road	Azusa	CA	91702
Baldwin Park, City of ¹	Public Works Department 14403 East Pacific Avenue	Baldwin Park	CA	91706
Bell, City of ¹	City Hall 6330 Pine Avenue	Bell	CA	90201
Bell Gardens, City of	Public Works Department 8372 South Garfield Avenue	Bell Gardens	CA	90201
Bellflower, City of	Planning Department 16600 Civic Center Drive	Bellflower	CA	90706

Table 31: Map Repositories, continued

Community	Address	City	State	Zip Code
Beverly Hills, City of ¹	Community Development Planning Division 455 North Rexford Drive Suite 100	Beverly Hills	CA	90210
Bradbury, City of ¹	City Hall 600 Winston Avenue	Bradbury	CA	91008
Burbank, City of	Public Works Department 150 North Third Street	Burbank	CA	91502
Calabasas, City of	Public Works Department 100 Civic Center Way	Calabasas	CA	91302
Carson, City of	Public Works Department 701 East Carson Street	Carson	CA	90745
Cerritos, City of	City Hall 18125 Bloomfield Avenue	Cerritos	CA	90703
Claremont, City of ¹	City Hall 207 Harvard Avenue	Claremont	CA	91711
Commerce, City of	City Hall 2535 Commerce Way	Commerce	CA	90040
Compton, City of	City Hall 205 South Willowbrook Avenue	Compton	CA	90220
Covina, City of ¹	Public Works Department 534 North Barranca Avenue	Covina	CA	91723
Cudahy, City of	City Hall 5220 Santa Ana Street	Cudahy	CA	90201
Culver City, City of	City Hall Second Floor 9770 Culver Boulevard	Culver City	CA	90232
Diamond Bar, City of	City Hall 21810 Copley Drive	Diamond Bar	CA	91765
Downey, City of	Public Works Department 11111 Brookshire Avenue	Downey	CA	90241
Duarte, City of ¹	Public Works Department 1600 Huntington Drive	Duarte	CA	91010
El Monte, City of ¹	Public Works Department 11333 Valley Boulevard	El Monte	CA	91731
El Segundo, City of	City Hall 350 Main Street	El Segundo	CA	90245

Table 31: Map Repositories, continued

Community	Address	City	State	Zip Code
Gardena, City of	Public Works Department 1717 West 162 nd Street	Gardena	CA	90247
Glendale, City of ¹	City Hall 613 East Broadway Room 200	Glendale	CA	91206
Glendora, City of ¹	City Hall 116 East Foothill Boulevard	Glendora	CA	91741
Hawaiian Gardens, City of ¹	City Hall 21815 Pioneer Boulevard	Hawaiian Gardens	CA	90716
Hawthorne, City of ¹	City Hall 4455 West 126th Street	Hawthorne	CA	90250
Hermosa Beach, City of	City Hall 1315 Valley Drive	Hermosa Beach	CA	90254
Hidden Hills, City of	City Hall 6165 Spring Valley Road	Hidden Hills	CA	91302
Huntington Park, City of ¹	City Hall 6550 Miles Avenue	Huntington Park	CA	90255
Industry, City of ¹	City Hall 15625 East Stafford Street	City of Industry	CA	91744
Inglewood, City of ¹	City Hall One Manchester Boulevard	Inglewood	CA	90301
Irwindale, City of ¹	City Hall 5050 North Irwindale Avenue	Irwindale	CA	91706
La Canada Flintridge, City of ¹	City Hall 1327 Foothill Boulevard	La Canada Flintridge	CA	91011
La Habra Heights, City of ¹	City Hall 1245 North Hacienda Road	La Habra Heights	CA	90631
La Mirada, City of	Public Works Department 15515 Phoebe Avenue	La Mirada	CA	90638
La Puente, City of ¹	City Hall 15900 East Main Street	La Puente	CA	91744
La Verne, City of	City Hall 3660 D Street	La Verne	CA	91750
Lakewood, City of	City Hall 5050 Clark Avenue	Lakewood	CA	90712
Lancaster, City of	City Hall 44933 North Fern Avenue	Lancaster	CA	93534

Table 31: Map Repositories, continued

Community	Address	City	State	Zip Code
Lawndale, City of ¹	City Hall 14717 Burin Avenue	Lawndale	CA	90260
Lomita, City of ¹	City Hall 24300 Narbonne Avenue	Lomita	CA	90717
Long Beach, City of	City Hall 333 West Ocean Boulevard 9 th Floor	Long Beach	CA	90802
Los Angeles, City of	Department of Public Works 1149 South Broadway Suite 810	Los Angeles	CA	90015
Los Angeles County, Unincorporated Areas	Watershed Management 900 South Fremont Avenue	Alhambra	CA	91803
Lynwood, City of	City Hall 11330 Bullis Road	Lynwood	CA	90262
Malibu, City of	City Hall 23825 Stuart Ranch Road	Malibu	CA	90265
Manhattan Beach, City of	City Hall 1400 Highland Avenue	Manhattan Beach	CA	90266
Maywood, City of ¹	City Hall 4319 East Slauson Avenue	Maywood	CA	90270
Monrovia, City of ¹	City Hall 415 South Ivy Avenue	Monrovia	CA	91016
Montebello, City of	City Hall 1600 West Beverly Boulevard	Montebello	CA	90640
Monterey Park, City of ¹	City Hall 320 West Newmark Avenue	Monterey Park	CA	91754
Norwalk, City of	Engineering Department 12700 Norwalk Blvd	Norwalk	CA	90651
Palmdale, City of	Development Services Building 38250 North Sierra Highway	Palmdale	CA	93550
Palos Verdes Estates, City of	City Hall 340 Palos Verdes Drive West	Palos Verdes Estates	CA	90274

Table 31: Map Repositories, continued

Community	Address	City	State	Zip Code
Paramount, City of	Public Works Department 15300 Downey Avenue	Paramount	CA	90723
Pasadena, City of	City Hall 175 North Garfield Avenue	Pasadena	CA	91101
Pico Rivera, City of	Department of Public Works 6615 Passons Boulevard	Pico Rivera	CA	90660
Pomona, City of ¹	City Hall 505 South Garey Avenue	Pomona	CA	91766
Rancho Palos Verdes, City of	City Hall 30940 Hawthorne Boulevard	Rancho Palos Verdes	CA	90275
Redondo Beach, City of	Planning Division 415 Diamond Street	Redondo Beach	CA	90277
Rolling Hills, City of ¹	Planning Department Two Portuguese Bend Road	Rolling Hills	CA	90274
Rolling Hills Estates, City of ¹	Planning Department 4045 Palos Verdes Drive North	Rolling Hills Estates	CA	90274
Rosemead, City of ¹	City Hall 8838 East Valley Boulevard	Rosemead	CA	91770
San Dimas, City of	Public Works Department 245 East Bonita Avenue	San Dimas	CA	91773
San Fernando, City of ¹	City Hall 117 North Macneil Street	San Fernando	CA	91340
San Gabriel, City of ¹	City Hall 425 South Mission Drive	San Gabriel	CA	91776
San Marino, City of ¹	City Hall 2200 Huntington Drive	San Marino	CA	91108
Santa Clarita, City of	City Hall 23920 Valencia Boulevard Suite 300	Santa Clarita	CA	91355
Santa Fe Springs, City of	Department of Public Works 11710 East Telegraph Road	Santa Fe Springs	CA	90670
Santa Monica, City of	Department of Public Works 1685 Main Street	Santa Monica	CA	90401
Sierra Madre, City of¹	City Hall 232 West Sierra Madre Boulevard	Sierra Madre	CA	91024

Table 31: Map Repositories, continued

Community	Address	City	State	Zip Code
Signal Hill, City of ¹	Engineering Department 2175 Cherry Avenue	Signal Hill	CA	90755
South El Monte, City of ¹	Engineering Division 1415 Santa Anita Avenue	South El Monte	CA	91733
South Gate, City of	City Hall 8650 California Avenue	South Gate	CA	90280
South Pasadena, City of ¹	Public Works – Engineering 1414 Mission Street	South Pasadena	CA	91030
Temple City, City of ¹	Engineering Department 9701 Las Tunas Drive	Temple City	CA	91780
Torrance, City of	Community Development 3031 Torrance Boulevard	Torrance	CA	90503
Vernon, City of ¹	Public Works Department 4305 South Santa Fe Avenue	Vernon	CA	90058
Walnut, City of ¹	Department of Public Works 398 Lemon Creek Drive Suite E	Walnut	CA	91789
West Covina, City of	Public Works Department 1444 West Garvey Avenue	West Covina	CA	91790
West Hollywood, City of ¹	Public Works Department 8300 Santa Monica Boulevard	West Hollywood	CA	90069
Westlake Village, City of	Engineering Department 31200 Oak Crest Drive	Westlake Village	CA	91361
Whittier, City of	Public Works Department 13230 Penn Street	Whittier	CA	90602

¹ No Special Flood Hazard Areas Identified

The National Flood Hazard Layer (NFHL) dataset is a compilation of effective FIRM databases and LOMCs. Together they create a GIS data layer for a State or Territory. The NFHL is updated as studies become effective and extracts are made available to the public monthly. NFHL data can be viewed or ordered from the website shown in Table 32.

Table 32 contains useful contact information regarding the FIS Report, the FIRM, and other relevant flood hazard and GIS data. In addition, information about the state NFIP Coordinator and GIS Coordinator is shown in this table. At the request of FEMA, each Governor has designated an agency of State or territorial government to coordinate that State's or territory's NFIP activities. These agencies often assist communities in developing and adopting necessary floodplain management measures. State GIS Coordinators are knowledgeable about the availability and location of state and local GIS data in their state.

**Table 32: Additional Information** 

	FEMA and the NFIP
FEMA and FEMA Engineering Library website	www.fema.gov/national-flood-insurance-program-flood-hazard-mapping/engineering-library
NFIP website	www.fema.gov/national-flood-insurance-program
NFHL Dataset	msc.fema.gov
FEMA Region IX	Federal Emergency Management Agency, 1111 Broadway, Suite 1200, Oakland, CA 94607-4052 (510) 627-7006
	Other Federal Agencies
USGS website	http://www.usgs.gov
Hydraulic Engineering Center website	http://www.hec.usace.army.mil
	State Agencies and Organizations
State NFIP Coordinator	Kelly Soule, P.E. MBA California Department of Water Resources 3464 El Camino Avenue, Suite 200 Sacramento, CA 95742 916-574-2314 kelly.soule@water.ca.gov
State GIS Coordinator	David Harris Agency Information Officer California Resources Agency 1416 Ninth Street, Room 1311 Sacramento, CA 95814 Phone: 916-445-5088 david.harris@resources.ca.gov

#### **SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES**

Table 33 includes sources used in the preparation of and cited in this FIS Report as well as additional studies that have been conducted in the study area.

## FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

**VOLUME 4 OF 9** 



# LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
AGOURA HILLS, CITY OF	065072	COMMERCE, CITY OF	060110
ALHAMBRA, CITY OF*	060095	COMPTON, CITY OF	060111
ARCADIA, CITY OF*	065014	COVINA, CITY OF*	065024
ARTESIA, CITY OF*	060097	CUDAHY, CITY OF	060657
AVALON, CITY OF	060098	CULVER CITY, CITY OF	060114
AZUSA, CITY OF	065015	DIAMOND BAR, CITY OF	060741
BALDWIN PARK, CITY OF*	060100	DOWNEY, CITY OF	060645
BELL, CITY OF*	060101	DUARTE, CITY OF*	065026
BELL GARDENS, CITY OF	060656	EL MONTE, CITY OF*	060658
BELLFLOWER, CITY OF	060102	EL SEGUNDO, CITY OF	060118
BEVERLY HILLS, CITY OF*	060655	GARDENA, CITY OF	060119
BRADBURY, CITY OF*	065017	GLENDALE, CITY OF	065030
BURBANK, CITY OF	065018	GLENDORA, CITY OF*	065031
CALABASAS, CITY OF	060749	HAWAIIAN GARDENS, CITY OF*	065032
CARSON, CITY OF	060107	HAWTHORNE, CITY OF*	060123
CERRITOS, CITY OF	060108	HERMOSA BEACH, CITY OF	060124
CLAREMONT, CITY OF*	060109	HIDDEN HILLS, CITY OF	060125

^{*}No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

FLOOD INSURANCE STUDY NUMBER

06037CV004F

Version Number 2.3.3.2



HUNTINGTON PARK, CITY OF* 065035 POMONA, CITY OF* 060148 INDUSTRY, CITY OF* 065036 RANCHO PALOS VERDES, CITY OF 060464 IRWINDALE, CITY OF* 060129 REDONDO BEACH, CITY OF 060150 LA CANADA FLINTRIDGE, CITY OF* 060669 ROLLING HILLS, CITY OF* 060151 LA HABRA HEIGHTS, CITY OF* 060131 ROSEMEAD, CITY OF* 060153 LA PUENTE*, CITY OF 060131 ROSEMEAD, CITY OF* 060153 LA PUENTE*, CITY OF 060131 ROSEMEAD, CITY OF* 060154 LA VERNE, CITY OF 060133 SAN FERNANDO, CITY OF* 060052 LAKEWOOD, CITY OF 060130 SAN GABRIEL, CITY OF* 060052 LANCASTER, CITY OF 060130 SAN GABRIEL, CITY OF* 060052 LANCASTER, CITY OF 060131 SAN GABRIEL, CITY OF* 060052 LANCASTER, CITY OF 060130 SAN GABRIEL, CITY OF* 060052 LANCASTER, CITY OF 060135 SANTA FE SPRINGS, CITY OF 060158 LOMITA, CITY OF* 060135 SANTA FE SPRINGS, CITY OF 060158 LONG BEACH, CITY OF 060136 SANTA MONICA, CITY OF 060159 LOS ANGELES, CITY OF 060137 SIERRA MADRE, CITY OF* 060159 LOS ANGELES, CITY OF 060137 SIERRA MADRE, CITY OF* 060159 LOS ANGELES, CITY OF 060136 SANTA MONICA, CITY OF* 060159 LYNWOOD, CITY OF 060137 SIERRA MADRE, CITY OF* 060161 LYNWOOD, CITY OF 060137 SIERRA MADRE, CITY OF* 060161 LYNWOOD, CITY OF 060138 SOUTH BLUNDITE, CITY OF* 060161 MAYMOOD, CITY OF 060138 SOUTH BLUNDITE, CITY OF* 060161 MAYMOOD, CITY OF 060139 SOUTH BASADENA, CITY OF 060163 MANHATTAN BEACH, CITY OF 060141 VERNON, CITY OF 060166 MONTEBELLO, CITY OF 060141 VERNON, CITY OF* 060166 MONTEBELLO, CITY OF 060141 VERNON, CITY OF* 060166 MONTEREY PARK, CITY OF 060141 VERNON, CITY OF* 060166 MONTEREY PARK, CITY OF 060144 WEST HOLLYWOOD, CITY OF* 060166 PALMDALE, CITY OF 060144 WEST HOLLYWOOD, CITY OF* 060166 PALMDALE, CITY OF 060144 WEST HOLLYWOOD, CITY OF* 060166	COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
INGLEWOOD, CITY OF*         065036         RANCHO PALOS VERDES, CITY OF         060464           IRWINDALE, CITY OF*         060129         REDONDO BEACH, CITY OF         060150           LA CANADA FLINTRIDGE, CITY OF*         060669         ROLLING HILLS, CITY OF*         060151           LA HABRA HEIGHTS, CITY OF         060701         ROLLING HILLS ESTATES, CITY OF*         065054           LA MIRADA, CITY OF         060131         ROSEMEAD, CITY OF*         060153           LA PUENTE*, CITY OF         065039         SAN DIMAS, CITY OF         060154           LA VERNE, CITY OF         060133         SAN FERNANDO, CITY OF         060628           LAKEWOOD, CITY OF         060130         SAN GABRIEL, CITY OF*         065055           LANCASTER, CITY OF         060672         SAN MARINO, CITY OF*         065057           LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060158           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         060161	HUNTINGTON PARK, CITY OF*	060126	PICO RIVERA, CITY OF	060148
IRWINDALE, CITY OF*         060129         REDONDO BEACH, CITY OF         060150           LA CANADA FLINTRIDGE, CITY OF*         060669         ROLLING HILLS, CITY OF*         060151           LA HABRA HEIGHTS, CITY OF*         060701         ROLLING HILLS ESTATES, CITY OF*         065054           LA MIRADA, CITY OF         060131         ROSEMEAD, CITY OF*         060153           LA PUENTE*, CITY OF         065039         SAN DIMAS, CITY OF         060154           LA VERNE, CITY OF         060133         SAN FERNANDO, CITY OF         060628           LAKEWOOD, CITY OF         060130         SAN GABRIEL, CITY OF*         065055           LANCASTER, CITY OF         060134         SANTA CLARITA, CITY OF*         065057           LAWNDALE, CITY OF*         060134         SANTA FE SPRINGS, CITY OF         060158           LOMITA, CITY OF*         060135         SANTA MONICA, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH GATE, CITY OF         060162	INDUSTRY, CITY OF*	065035	POMONA, CITY OF*	060149
LA CANADA FLINTRIDGE, CITY OF*         060669         ROLLING HILLS, CITY OF*         060151           LA HABRA HEIGHTS, CITY OF*         060701         ROLLING HILLS ESTATES, CITY OF*         065054           LA MIRADA, CITY OF         060131         ROSEMEAD, CITY OF*         060153           LA PUENTE*, CITY OF         065039         SAN DIMAS, CITY OF         060154           LA VERNE, CITY OF         060133         SAN FERNANDO, CITY OF         060628           LAKEWOOD, CITY OF         060130         SAN GABRIEL, CITY OF*         065055           LANCASTER, CITY OF         060672         SAN MARINO, CITY OF*         065055           LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH BEADNA, CITY OF*         060162           MALIBU, CITY OF         060651         TEMPLE CITY, CITY OF*         060651	INGLEWOOD, CITY OF*	065036	RANCHO PALOS VERDES, CITY OF	060464
LA HABRA HEIGHTS, CITY OF*         060701         ROLLING HILLS ESTATES, CITY OF*         065054           LA MIRADA, CITY OF         060131         ROSEMEAD, CITY OF*         060153           LA PUENTE*, CITY OF         065039         SAN DIMAS, CITY OF         060154           LA VERNE, CITY OF         060133         SAN FERNANDO, CITY OF         060628           LAKEWOOD, CITY OF         060130         SAN GABRIEL, CITY OF*         065055           LANCASTER, CITY OF         060672         SAN MARINO, CITY OF*         065055           LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060135         SANTA FE SPRINGS, CITY OF         060158           LOS ANGELES, CITY OF         060136         SANTA MONICA, CITY OF         065059           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060161           LYNWOOD, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         060653           MONROV	IRWINDALE, CITY OF*	060129	REDONDO BEACH, CITY OF	060150
LA MIRADA, CITY OF         060131         ROSEMEAD, CITY OF*         060153           LA PUENTE*, CITY OF         065039         SAN DIMAS, CITY OF         060154           LA VERNE, CITY OF         060133         SAN FERNANDO, CITY OF         060628           LAKEWOOD, CITY OF         060130         SAN GABRIEL, CITY OF*         065055           LANCASTER, CITY OF         060672         SAN MARINO, CITY OF*         065055           LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         06035         SOUTH BL. MONTE, CITY OF*         060162           MALIBU, CITY OF         06035         SOUTH GATE, CITY OF*         060163           MAYWOOD, CITY OF*         060163         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONTEBELLO, CITY O	LA CANADA FLINTRIDGE, CITY OF*	060669	ROLLING HILLS, CITY OF*	060151
LA PUENTE*, CITY OF         065039         SAN DIMAS, CITY OF         060154           LA VERNE, CITY OF         060133         SAN FERNANDO, CITY OF         060628           LAKEWOOD, CITY OF         060130         SAN GABRIEL, CITY OF*         065055           LANCASTER, CITY OF         060672         SAN MARINO, CITY OF*         065057           LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         06035         SOUTH BL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTERELLO, C	LA HABRA HEIGHTS, CITY OF*	060701	ROLLING HILLS ESTATES, CITY OF*	065054
LA VERNE, CITY OF         060133         SAN FERNANDO, CITY OF         060628           LAKEWOOD, CITY OF         060130         SAN GABRIEL, CITY OF*         065055           LANCASTER, CITY OF         060672         SAN MARINO, CITY OF*         065057           LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         060651           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEREY PARK, CITY OF*         065047         WALNUT, CITY OF*         060166           MORWALK, C	LA MIRADA, CITY OF	060131	ROSEMEAD, CITY OF*	060153
LAKEWOOD, CITY OF         060130         SAN GABRIEL, CITY OF*         065055           LANCASTER, CITY OF         060672         SAN MARINO, CITY OF*         065057           LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTERELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF         065047         WALNUT, CITY OF         060666           PALMDALE, CITY	LA PUENTE*, CITY OF	065039	SAN DIMAS, CITY OF	060154
LANCASTER, CITY OF         060672         SAN MARINO, CITY OF*         065057           LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF         0605047         WALNUT, CITY OF*         0605069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060720           PALOS VERDES E	LA VERNE, CITY OF	060133	SAN FERNANDO, CITY OF	060628
LAWNDALE, CITY OF*         060134         SANTA CLARITA, CITY OF         060729           LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF         060652         WEST COVINA, CITY OF         060666           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060720           PALOS VERDES ESTATES, CITY OF         060145         WESTLAKE VILLAGE, CITY OF         060744	LAKEWOOD, CITY OF	060130	SAN GABRIEL, CITY OF*	065055
LOMITA, CITY OF*         060135         SANTA FE SPRINGS, CITY OF         060158           LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060720           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060744           PARAMOUNT, CITY OF         065049         WHITTIER, CITY OF         060169	LANCASTER, CITY OF	060672	SAN MARINO, CITY OF*	065057
LONG BEACH, CITY OF         060136         SANTA MONICA, CITY OF         060159           LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         06053           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF         060652         WEST COVINA, CITY OF         060666           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060720           PALOS VERDES ESTATES, CITY OF         060145         WESTLAKE VILLAGE, CITY OF         060744           PARAMOUNT, CITY OF         065049         WHITTIER, CITY OF         060169	LAWNDALE, CITY OF*	060134	SANTA CLARITA, CITY OF	060729
LOS ANGELES, CITY OF         060137         SIERRA MADRE, CITY OF*         065059           LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF*         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060720           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060744           PARAMOUNT, CITY OF         060145         WESTLAKE VILLAGE, CITY OF         060169	LOMITA, CITY OF*	060135	SANTA FE SPRINGS, CITY OF	060158
LOS ANGELES COUNTY UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF*         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060666           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060720           PALOS VERDES ESTATES, CITY OF         060145         WESTLAKE VILLAGE, CITY OF         060169           PARAMOUNT, CITY OF         065049         WHITTIER, CITY OF         060169	LONG BEACH, CITY OF	060136	SANTA MONICA, CITY OF	060159
UNINCORPORATED AREAS         065043         SIGNAL HILL, CITY OF*         060161           LYNWOOD, CITY OF         060635         SOUTH EL MONTE, CITY OF*         060162           MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF*         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060666           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060720           PALOS VERDES ESTATES, CITY OF         060145         WESTLAKE VILLAGE, CITY OF         060744           PARAMOUNT, CITY OF         065049         WHITTIER, CITY OF         060169	LOS ANGELES, CITY OF	060137	SIERRA MADRE, CITY OF*	065059
MALIBU, CITY OF         060745         SOUTH GATE, CITY OF         060163           MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF*         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060720           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060720           PALOS VERDES ESTATES, CITY OF         065049         WHITTIER, CITY OF         060169		065043	SIGNAL HILL, CITY OF*	060161
MANHATTAN BEACH, CITY OF         060138         SOUTH PASADENA, CITY OF*         065061           MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF*         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060666           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060720           PALOS VERDES ESTATES, CITY OF         060145         WESTLAKE VILLAGE, CITY OF         060744           PARAMOUNT, CITY OF         065049         WHITTIER, CITY OF         060169	LYNWOOD, CITY OF	060635	SOUTH EL MONTE, CITY OF*	060162
MAYWOOD, CITY OF*         060651         TEMPLE CITY, CITY OF*         060653           MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF*         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060666           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060720           PALOS VERDES ESTATES, CITY OF         060145         WESTLAKE VILLAGE, CITY OF         060744           PARAMOUNT, CITY OF         065049         WHITTIER, CITY OF         060169	MALIBU, CITY OF	060745	SOUTH GATE, CITY OF	060163
MONROVIA, CITY OF*         065046         TORRANCE, CITY OF         060165           MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF*         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060666           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060720           PALOS VERDES ESTATES, CITY OF         060145         WESTLAKE VILLAGE, CITY OF         060744           PARAMOUNT, CITY OF         065049         WHITTIER, CITY OF         060169	MANHATTAN BEACH, CITY OF	060138	SOUTH PASADENA, CITY OF*	065061
MONTEBELLO, CITY OF         060141         VERNON, CITY OF*         060166           MONTEREY PARK, CITY OF*         065047         WALNUT, CITY OF*         065069           NORWALK, CITY OF         060652         WEST COVINA, CITY OF         060666           PALMDALE, CITY OF         060144         WEST HOLLYWOOD, CITY OF*         060720           PALOS VERDES ESTATES, CITY OF         060145         WESTLAKE VILLAGE, CITY OF         060744           PARAMOUNT, CITY OF         065049         WHITTIER, CITY OF         060169	MAYWOOD, CITY OF*	060651	TEMPLE CITY, CITY OF*	060653
MONTEREY PARK, CITY OF* 065047 WALNUT, CITY OF* 065069  NORWALK, CITY OF 060652 WEST COVINA, CITY OF 060666  PALMDALE, CITY OF 060144 WEST HOLLYWOOD, CITY OF* 060720  PALOS VERDES ESTATES, CITY OF 060145 WESTLAKE VILLAGE, CITY OF 060744  PARAMOUNT, CITY OF 065049 WHITTIER, CITY OF 060169	MONROVIA, CITY OF*	065046	TORRANCE, CITY OF	060165
NORWALK, CITY OF060652WEST COVINA, CITY OF060666PALMDALE, CITY OF060144WEST HOLLYWOOD, CITY OF*060720PALOS VERDES ESTATES, CITY OF060145WESTLAKE VILLAGE, CITY OF060744PARAMOUNT, CITY OF065049WHITTIER, CITY OF060169	MONTEBELLO, CITY OF	060141	VERNON, CITY OF*	060166
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PALOS VERDES ESTATES, CITY OF 060145 WESTLAKE VILLAGE, CITY OF 060744  PARAMOUNT, CITY OF 065049 WHITTIER, CITY OF 060169	NORWALK, CITY OF	060652	WEST COVINA, CITY OF	060666
PARAMOUNT, CITY OF 065049 WHITTIER, CITY OF 060169	PALMDALE, CITY OF	060144	WEST HOLLYWOOD, CITY OF*	060720
	PALOS VERDES ESTATES, CITY OF	060145	WESTLAKE VILLAGE, CITY OF	060744
PASADENA, CITY OF* 065050	PARAMOUNT, CITY OF	065049	WHITTIER, CITY OF	060169
	PASADENA, CITY OF*	065050		

^{*}No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

### FLOOD INSURANCE STUDY NUMBER **06037CV004F**

Version Number 2.3.3.2



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Flood Insurance Rate Map (FIRM)

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Abrams Aerial Survey Corporatio n, 1978	Abrams Aerial Survey Corporation	Aerial Photographs and Topographic Maps, Hermosa Beach, Redondo Beach, and King Harbor, Los Angeles County, California, Scale 1:4,800, Contour Interval 2 feet		City of Lansing, MI	October 1978	https://www.lansingmi.gov/840/ Libraries
Agoura Hills	City of Agoura Hills	Agoura Hills Draft General Plans		City of Agoura Hills, CA	undated	https://lacountylibrary.org/ agoura-hills-library/
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California Coastal Commissio n, 1978	California Coastal Commission	Wave Damage Along the California Coast, Winter 1977-78, California Tomorrow Environmental Intern Program	Howe, Steve	California Coastal Commission	December 11, 1978	http://www.coastal.ca.gov/
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California Geology, 1979	California Geology	California Geology, "Accelerated Beach-Cliff Erosion Related to Unusual Storms in Southern California"	Kuhn, G.G. & Shephard, F.P.	California Geology	March 1979	http://redirect.conservation.ca. gov/CGS/information/calgeolo gy/index.asp

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FEMA, 1978	Federal Emergency Management Agency	Flood Insurance Study, San Bernardino County, California (Unincorporated Areas)		Washington D.C.	1978	FEMA Map Service Center http://msc.fema.gov
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FEMA, 1980	Federal Emergency Management Agency	Flood Insurance Study, City of La Mirada, California		Washington D.C.	1980	FEMA Map Service Center <a href="http://msc.fema.gov">http://msc.fema.gov</a>

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La Mirada, 1966	City of La Mirada	Base Map, Scale 1:6,000		City of La Mirada, CA	1966	https://lacountylibrary.org/ la-mirada-library/
La Mirada, 1977	City of La Mirada	Topographic Map, Scale 1:1,200, Contour Interval 2 feet: La Mirada Creek Flood Plain		City of La Mirada, CA	1977	https://lacountylibrary.org/ la-mirada-library/
LA Times, 1960	Los Angeles Times	article on storm		Los Angeles Times	March 24, 1960	http://www.latimes.com/
LA Times, 1964	Los Angeles Times	article on storm		Los Angeles Times	March 29, 1964	http://www.latimes.com/
LACFD, 1933	Los Angeles County Flood Control District	Flood Overflow Maps - Los Angeles County, California, Scale 1:24,000		Los Angeles County Flood Control District	1933	http://dpw.lacounty.gov/lacfcd/
LACFD, 1950	Los Angeles County Flood Control District	Flood Overflow Maps, City of Culver City, California, Developed from USGS 1950 Topographic Map		Los Angeles County Flood Control District		http://dpw.lacounty.gov/lacfcd/
LACFD, 1961	Los Angeles County Flood Control District	Kagel Canyon, Topographic Map, Scale 1:480, Contour Interval 2 feet		Los Angeles County Flood Control District	April 1961; June 1961	http://dpw.lacounty.gov/lacfcd/

Table 33: Bibliography and References, continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
LACFD, 1963	Los Angeles County Flood Control District	Rustic Canyon, Topographic Map, Scale 1:480, Contour Interval 2 feet		Los Angeles County Flood Control District	October 1963	http://dpw.lacounty.gov/lacfcd/
LACFD, 1968	Los Angeles County Flood Control District	Topographic Mapping for Lindero Canyon, Scale 1:480, Contour Interval 2 foot		Los Angeles County Flood Control District	1968	http://dpw.lacounty.gov/lacfcd/
LACFD, 1968	Los Angeles County Flood Control District	Topographic Mapping for Medea Creek, Scale 1:480, Contour Interval 2 feet		Los Angeles County Flood Control District	1968	http://dpw.lacounty.gov/lacfcd/
LACFD, 1971	Los Angeles County Flood Control District	Hydrology Manual		Los Angeles County Flood Control District	1971	http://dpw.lacounty.gov/lacfcd/
LACFD, 1976	Los Angeles County Flood Control District	Survey Field Book, Flood Insurance Studies		Los Angeles County Flood Control District	1976	http://dpw.lacounty.gov/lacfcd/
LACFD, 1977	Los Angeles County Flood Control District	Field Book FC-3405		Los Angeles County Flood Control District	November 1977	http://dpw.lacounty.gov/lacfcd/
LACFD, 1977	Los Angeles County Flood Control District	Field Book FC-3405, Elevation Reference Marks		Los Angeles County Flood Control District	November 1977	http://dpw.lacounty.gov/lacfcd/
LACFD, 1977	Los Angeles County Flood Control District	Field Book FC-3405, Engineering Methodology for Flood Insurance Studies		Los Angeles County Flood Control District	November 1977	http://dpw.lacounty.gov/lacfcd/
LACFD, 1978	Los Angeles County Flood Control District	Mill Creek Topographic Map, Scale 1:1,200, Contour Interval 2 feet		Los Angeles County Flood Control District	1978	http://dpw.lacounty.gov/lacfcd/

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Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
LACFD, 1978	Los Angeles County Flood Control District	Project No. 8152, Avenue Hsump, Map No. 470-8152-TI, Scale 1:480, Contour Interval 2 feet		Los Angeles County Flood Control District	1978	http://dpw.lacounty.gov/lacfcd/
LACFD, 1982	Los Angeles County Flood Control District	Empire and Lockheed System Hydrology Study		Los Angeles County Flood Control District	May 1982	http://dpw.lacounty.gov/lacfcd/
LACFD, 1982	Los Angeles County Flood Control District	Hydraulic Analysis of Lockheed Channel		Los Angeles County Flood Control District	August 1982	http://dpw.lacounty.gov/lacfcd/
LACFD, 1982	Los Angeles County Flood Control District	Hydrologic Report 1975-77		Los Angeles County Flood Control District	October 1982	http://dpw.lacounty.gov/lacfcd/
LACFD, 1983	Los Angeles County Flood Control District	1983 Storm Report		Los Angeles County Flood Control District	June 1983	http://dpw.lacounty.gov/lacfcd/
Lakewood, 1990	Greater Lakewood Chamber of Commerce	Community Economic Profile for Lakewood		Los Angeles County, CA	May 1990	http://www.lakewoodchamber. com/
Lockheed Engineerin g, 1993	Lockheed Engineering and Science Co.	Final Grading and Drainage for Plant B-1		Lockheed Engineering and Science Co.	October 1993	http://www.lockheedmartin.co m/
Long Beach 1955	City of Long Beach	Beach-Alamitos Avenue to San Gabriel River		City of Long Beach, CA	1955	http://www.longbeach.gov/library
Long Beach, 1987	City of Long Beach, California, Department of Public Works	National Geodetic Vertical Datum 1929		City of Long Beach, CA Department of Public Works	1929, 1987	http://www.longbeach.gov/library

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Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Long Beach Harbor, 1977	Long Beach Harbor Department	TP - for Los Angeles and Long Beach Harbors from Primary Tide Station Located at Los Angeles Outer Harbor		City of Long Beach, CA	1977	http://www.polb.com/
Long Beach Independe nt, 1939	Long Beach Independent (and Long Beach News- Signal)	various articles on storms and waves		Long Beach Independent (and Long Beach News- Signal)	September 26, 1939	http://www.longbeachindepend ent.com/
Long Beach Press, 1939	Long Beach Press- Telegram	various articles on storms and waves		Long Beach Press- Telegram	September 25, 1939	http://www.presstelegram.com/
Los Angeles	City of Los Angeles	Drainage Maps, Scale 1:4,800, Contour Intervals 5 and 25 feet		City of Los Angeles, CA	updated periodically	https://www.lapl.org/
Los Angeles, 1935	City of Los Angeles	Plans and Profile, Weldon Canyon, Scale 1:480 (Horizontal) and 1:48 (Vertical)		City of Los Angeles, CA	October 1935	https://www.lapl.org/
Los Angeles, 1967	City of Los Angeles	Topographic Map, Bixby Slough; Between 232nd Street and Anaheim Street, Scale 1:1,200, Contour Interval 2 feet		City of Los Angeles, CA	February 1967	https://www.lapl.org/
Los Angeles, 1977	City of Los Angeles	Drainage Maps, Los Angeles, California, Scale 1:12,000		City of Los Angeles, CA	1977	https://www.lapl.org/

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Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Los Angeles County, 1989	Downey Chamber of Commerce	Community Economic Profile for Downey, Los Angeles County, California		Los Angeles County, CA	February 1989	http://www.downeychamber.co m/
Los Angeles County, 1955	Los Angeles County, County Engineer	Soil Survey Map of Eastern End of Santa Catalina Island	Santa Catalina Island Company	County of Los Angeles	1955	http://www.lacounty.gov/
Los Angeles County, 1957	Los Angeles County, County Engineer	Topographic Map of Carbon Canyon and Las Flores Canyon, Scale 1:1,200, Contour Interval 5 feet		Los Angeles County, CA	1957	http://www.lacounty.gov/
Los Angeles County, 1957	Los Angeles County, County Engineer	Topographic Map of Escondido Canyon, Scale 1:1,200, Contour Interval 5 feet		Los Angeles County, CA	1957	http://www.lacounty.gov/
Los Angeles County, 1957	Los Angeles County, County Engineer	Topographic Map of Romero Canyon, Scale 1:1,200, Contour Interval 5 feet		Los Angeles County, CA	1957	http://www.lacounty.gov/
Los Angeles County, 1957	Los Angeles County, County Engineer	Topographic Map of Zuma Canyon, Scale 1:1,200, Contour Interval 5 feet		Los Angeles County, CA	1957	http://www.lacounty.gov/
Los Angeles County, 1964	Los Angeles County, County Engineer	Topographic Map of Topanga Canyon Road et al., Scale 1:1,200, Contour Irterva1 5 feet		Los Angeles County, CA	1964	http://www.lacounty.gov/

Table 33: Bibliography and References, continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Los Angeles County, 1965	Los Angeles County, County Engineer	Topographic Map of Stokes Canyon Road, Scale 1:1,200, Contour Interval 5 feet		Los Angeles County, CA	1965	http://www.lacounty.gov/
Los Angeles County, 1965	Los Angeles County, County Engineer	Topographic Map of Stunt Road, Scale 1:1,200, Contour Interval 5 feet		Los Angeles County, CA	1965	http://www.lacounty.gov/
Los Angeles County, 1966	Los Angeles County, County Engineer	Topographic Map of Topanga Canyon Road, Scale 1:1,200, Contour Interval 5 feet		Los Angeles County, CA	1966	http://www.lacounty.gov/
Los Angeles County, 1967	Los Angeles County, County Engineer	Topographic Map of Corral Canyon Road, Scale 1:2,400, Contour Inerva1 5 feet		Los Angeles County, CA	1967	http://www.lacounty.gov/
Los Angeles County, 1967	Los Angeles County, County Engineer	Topographic Map of Topanga Road South, Scale 1:1,200, Contour Interva1 5 feet		Los Angeles County, CA	1967	http://www.lacounty.gov/
Los Angeles County, 1969	Los Angeles County, County Engineer	Flood Overflow Maps, North County, Scale 1:24,000, Contour Interval 5 feet, Alpine Butte, California, 1969	County Engineer	Los Angeles County, CA	1969	http://www.lacounty.gov/
Los Angeles County, 1969	Los Angeles County, County Engineer	Flood Overflow Maps, North County, Scale 1:24,000, Contour Interval 5 feet, Lancaster East, California, 1969	County Engineer	Los Angeles County, CA	1969	http://www.lacounty.gov/

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Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Los Angeles County, 1969	Los Angeles County, County Engineer	Flood Overflow Maps, North County, Scale 1:24,000, Contour Interval 5 feet, Lancaster West, California, 1969	County Engineer	Los Angeles County, CA	1969	http://www.lacounty.gov/
Los Angeles County, 1969	Los Angeles County, County Engineer	Topographic Map of Cold Canyon Road, Scale 1:1,200, Contour Interval 5 feet		Los Angeles County, CA	1969	http://www.lacounty.gov/
Los Angeles County, 1971	Los Angeles County, County Engineer	Topographic Map of Lobe Canyon Road, Scale 1:1,200, Contour Interva1 5 feet		Los Angeles County, CA	1971	http://www.lacounty.gov/
Los Angeles County, 1972	Los Angeles County, County Engineer	Topographic Map of Antelope Valley Drainage Study, Scale 1:6,000, Contour Interval 10 feet	County Engineer	Los Angeles County, CA	1972	http://www.lacounty.gov/
Los Angeles County, 1972	Los Angeles County, County Engineer	Topographic Map of Antelope Valley Drainage Study, Scale 1:6,000, Contour Interval 4 feet	County Engineer	Los Angeles County, CA	1972	http://www.lacounty.gov/
Los Angeles County, 1972	Los Angeles County, County Engineer	Topographic Map of Antelope Valley Drainage Study, Scale 1:6,000, Contour Interval 5 feet	County Engineer	Los Angeles County, CA	1972	http://www.lacounty.gov/
Los Angeles County, 1973	Los Angeles County, County Engineer	Rainfall Records - City of Avalon, Gage No. 535 (1947-1973)	Santa Catalina Island Company	County of Los Angeles	1973	http://www.lacounty.gov/

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Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Los Angeles County, 1975	Los Angeles County, County Engineer	Topographic Map of City of Santa Catalina Island, Scale 1:6,000, Contour Interval 10 feet	Santa Catalina Island Company	County of Los Angeles	1975	http://www.lacounty.gov/
Los Angeles County, 1977	Los Angeles County, County Engineer	Topographic Map of Floodplain Mapping - Santa Clarita Valley, Scale 1:6,000, Contour Interval 10 feet	County Engineer	Los Angeles County, CA	1977	http://www.lacounty.gov/
Los Angeles County, 1979	Los Angeles County, County Engineer	Construction Drawings PM 100203, PD No. 1231	County Engineer	Los Angeles County, CA	September 6, 1979	http://www.lacounty.gov/
Los Angeles County, 1979	Los Angeles County, County Engineer	Construction Drawings PM 7982, PD No. 1378	County Engineer	Los Angeles County, CA	August 17, 1979	http://www.lacounty.gov/
Los Angeles County, 1979	Los Angeles County Department of Public Works	Cross Section Field Notes for Medea Creek		Los Angeles County, CA	September 4, 1979	http://dpw.lacounty.gov/
Los Angeles County, 1979	Los Angeles County Department of Public Works	Flood Insurance Study Work Map		Los Angeles County Department of Public Works	September 25, 1979	http://dpw.lacounty.gov/
Los Angeles County, 1987	Los Angeles County Department of Public Works	Antelope Valley Comprehensive Plan of Flood Control and Water Conservation		Los Angeles County Department of Public Works	June 1987	http://dpw.lacounty.gov/

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Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Los Angeles County, 1975	Los Angeles County, Regional Planning Department	North Los Angeles County General Plan		Los Angeles County, CA	1975	http://planning.lacounty.gov/
Los Angeles County, 1977	Los Angeles County, Regional Planning Department	Quarterly Bulletin No. 135, Population Research		Los Angeles County, CA	January 1977	http://planning.lacounty.gov/
Maxwell Starkman, 1978	Maxwell Starkman ALA and Associates, J.H. Edwards Company	Grading Plan for Parcel 1, Parcel Map Tor. 66-5 1 PMB 4/89-90, Scale 1:480, Contour Interval 1 foot		Maxwell Starkman ALA and Associates, J.H. Edwards Company	October 26, 1978	
McEwen, 1935	McEwen, C. F.	Destructive High Waves Along the Southern California Coast	McEwen, C. F.		April 1935 Photorevis ed (1967); Venice, California (1964), Photorevis ed (1972)	
Montebello, 1958	City of Montebello	Aerial Topographic Maps, Scale 1:1,200 Contour Interval 2 feet		City of Montebello, CA	1958	https://lacountylibrary.org/ montebello-library/
NGS	U.S. Department of Commerce, Coast and Geodetic Survey; and National Oceanic and Atmospheric Administration	Bathymetric Charts, California Coastline		NGS, NOAA		http://www.noaa.gov/

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Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
NGS, 1941	U.S. Department of Commerce, Coast and Geodetic Survey	Manual of Harmonic Analysis and Prediction of Tides, Special Publication No. 98	Shureman, P.	National Geodetic Survey	1941	http://www.commerce.gov/ http://www.ngs.noaa.gov/
NOAA, 1979	U.S. Department of Commerce, National Oceanic and Atmospheric Administration	Monthly Weather Review		NOAA	1976-1979	http://www.noaa.gov/
OWI, 2009	Oceanweather Inc.	California Pacific Coastal Studies (Southern Coastal Counties); High Resolution Deep Water Wave Climate Forcing Development 1960-2009	Oceanweather Inc.		2009	
Palmdale, 1985	City of Palmdale	Service Level Report		City of Palmdale, CA	August 22, 1985	http://www.cityofpalmdale.org/ Library
Rick Engineerin g Company, 1985	Rick Engineering Company	Topographic Map of Little Rock Wash, Scale 1 "=400' Contour Interval 4 feet		Rick Engineering Company	February 1985	http://www.rickengineering.co m/
Santa Catalina Island Company, 1962	Santa Catalina Island Company	Topographic Map of City of Avalon, California, Scale 1:2,400, Contour Intervals 2 and 5 feet		Santa Catalina Island Company	1962	
Santa Fe Springs	City of Santa Fe Springs	Miscellaneous Engineering Drawings of Street Plans and Profiles, various scales		City of Santa Fe Springs, CA	various	https://www.santafesprings.org/ library/

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Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
SIO, 2014	Scripps Institute of Oceanography	California Open Pacific Coast: Southern California Shallow Water Wave Climates SHELF Model Hindcast. California Coastal Analysis and Mapping Project: Open Pacific Coast Phase II	SIO		2014	
Simons, 1992	Simons, Li & Associates, Inc.	Design Report, Rehabilitation Concept Plan for Medea Creek in Morrison Ranch	Simons, Li & Associates, Inc.	Simons, Li & Associates, Inc	October 7, 1992	
Tetra Tech, 1979	Tetra Tech, Inc.	Methodology for Computing Coastal Flooding Statistics in Southern California, Report No. TC-3205	Y.K. Lee et al.	Tetra Tech, Inc.	December 1979	www.tetratech.com
Tetra Tech, 1982	Tetra Tech, Inc.	Methodology for Computing Coastal Flood Statistics in Southern California, Report No. TC-3205		Tetra Tech, Inc.	1982	www.tetratech.com
Torrence, 1968	City of Torrance	Base Map, 1968		City of Torrance, CA	1968	https://www.library.torranceca
UCLA, 1972	University of California, Los Angeles	Some Meteorological Aspects of the Seasonal Distribution of Precipitation in the Western United States and Baja California, Water Resource Center Contribution No. 139	Pyke, C.B.	University of California	October 1972	http://www.universityofcaliforni a.edu/

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Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USACE	U.S. Department of the Army, Corps of Engineers	Flood Insurance Study, City of Burbank, California, Preliminary Draft		Washington, D.C.	Unpublishe d	http://www.usace.army.mil/
USACE, 1971	U.S. Department of the Army, Corps of Engineers	Santa Clara River and Tributaries, California, Interim Review Report for Flood Control			December 1971	http://www.usace.army.mil/
USACE, 1981	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	HEC-1 Flood Hydrograph Package, Generalized Computer Program, User's Manual		Davis, CA	1981	http://www.usace.army.mil/
USACE, 1976	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	Computer Program HEC-2 Water Surface Profiles, Generalized Computer Program		Davis, CA	November 1976	http://www.usace.army.mil/
USACE, 1982	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	HEC-5 Simulation of Flood Control and Conservation Systems, User's Manual		Davis, CA	1982	http://www.usace.army.mil/

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Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USACE, 1984	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	Computer Program HEC-2 Water Surface Profiles, Generalized Computer Program		Davis, CA	May 1984	http://www.usace.army.mil/
USACE, 1985	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	HEC-2 Water-Surface Profiles, Generalized Computer Program		Davis, CA	1985	http://www.usace.army.mil/
USACE, 1990	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	HEC-1 Flood Hydrograph Package, Generalized Computer Program		Davis, CA	September 1990	http://www.usace.army.mil/
USACE, 1990	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	HEC-2 Water-Surface Profiles, Generalized Computer Program		Davis, CA	September 1990	http://www.usace.army.mil/
USACE, 1976	U.S. Department of the Army, Corps of Engineers, Los Angeles District	Hydrology - Antelope Valley Streams			1976, unpublishe d	http://www.spl.usace.army.mil/

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Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USACE, 1978	U.S. Department of the Army, Corps of Engineers, Los Angeles District	Overflow Maps for Areas along the Los Angeles River		Los Angeles, California	1978	http://www.spl.usace.army.mil/
USACE, 1987	U.S. Department of the Army, Corps of Engineers, Los Angeles District	As Built Plans for Los Angeles River: Channel and Bridges from Arroyo Seco to Pacific Ocean, 1987, and As Constructed Plans for San Gabriel River Channel from Whittier Narrows Dam to the Pacific Ocean, 1969			1987 and 1969	http://www.spl.usace.army.mil/
USACE, 1987	U.S. Department of the Army, Corps of Engineers, Los Angeles District	Letter of Certification for Middle Reach		Los Angeles, California	September 1987	http://www.spl.usace.army.mil/
USACE, 1987	U.S. Department of the Army, Corps of Engineers, Los Angeles District	Overflow Maps for Areas Along the Los Angeles River		Los Angeles, California	1987	http://www.spl.usace.army.mil/

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Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USACE, 1990	U.S. Department of the Army, Corps of Engineers, Los Angeles District	Los Angeles County Drainage Area Review Draft Feasibility Report, Appendix A		Los Angeles, California	Hydraulic July 1989; Hydrology, February 1990	http://www.spl.usace.army.mil/
USACE, 1978	U.S. Department of the Army, Corps of Engineers, Los Angeles and San Francisco Districts	Winter Storm Damage Along the California Coast	Domurat, George W.		1977-78	http://www.spl.usace.army.mil/
USACE, 1971	U.S. Department of the Army, Corps of Engineers, South Pacific Division	National Shoreline Study; California Regional Inventory			August 1971	http://www.spd.usace.army.mil /
USACE, 1980	U.S. Department of the Army, Corps of Engineers, Waterways Experiment Station	Type 19 Flood Insurance Study: Tsunami Predictions for Southern California, prepared for the Federal Emergency Management Agency	Houston, J.R.	Washington, D.C.	September 1980	http://www.usace.army.mil/
USDA, 1921	U.S. Department of Agriculture, Soil Conservation Service	Reconnaissance Soil Survey of the Central Southern Area, California		U.S. Department of Agriculture, Soil Conservation Service	1921	http://www.nrcs.usda.gov/wps/ portal/nrcs/site/national/home/

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Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USDA, 1963	U.S Department of Agriculture, Soil Conservation Service	Guide for Selecting Roughness coefficient 'n' Values for Channels		Lincoln, NE	December, 1963	http://www.nrcs.usda.gov/wps/portal/nrcs/site/national/home/
U.S. Census, 1980	U.S. Department of Commerce, Bureau of the Census	1980 Census of Population, California		Washington D.C.	March 1982	http://www.census.gov/
U.S. Census, 1980	U.S. Department of Commerce, Bureau of the Census	PC(I)-A6, Number of Inhabitants, California		Washington D.C.	1980	http://www.census.gov/
U.S. Census, 1990	U.S. Department of Commerce, Bureau of the Census	Census of Population		Washington D.C.	1991	http://www.census.gov/
USGS, 1932	U.S. Department of the Interior, Geological Survey	7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 5 feet: Orange, California, 1932		Washington, D.C.	1923	http://topomaps.usgs.gov
USGS, 1950	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 25 feet: Malibu Beach, California, 1950		Washington, D.C.	1950	http://topomaps.usgs.gov
USGS 1950	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 20 feet: Thousand Oaks, California, 1950		Washington, D.C.	1950	http://topomaps.usgs.gov

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Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1964	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 5 feet, Long Beach, California, 1964		Washington, D.C.	1964	http://topomaps.usgs.gov
USGS, 1964	U.S. Department of the Interior, Geological Survey	7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 5 feet: Los Alamitos, California, 1964		Washington, D.C.	1964	http://topomaps.usgs.gov
USGS, 1964	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 5 feet, South Gate, California, 1964		Washington, D.C.	1964	http://topomaps.usgs.gov
USGS, 1966	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 20 feet, Los Angeles, California, 1966		Washington, D.C.	1966	http://topomaps.usgs.gov
USGS, 1967	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 25 feet, Calabasas, California, 1952, Photorevised, 1967		Washington, D.C.	1967	http://topomaps.usgs.gov

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Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1967	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Intervals 25 feet: Malibu Beach, California, 1950, Photorevised, 1967		Washington, D.C.	1967	http://topomaps.usgs.gov
USGS, 1967	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Intervals 25 feet: Point Dume, California, 1950, Photorevised, 1967		Washington, D.C.	1967	http://topomaps.usgs.gov
USGS, 1967	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 20 feet, Thousand Oaks, California, 1950, Photorevised, 1967		Washington, D.C.	1967	http://topomaps.usgs.gov
USGS, 1967	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Intervals 25 feet: Topanga, California, 1952, Photorevised, 1967		Washington, D.C.	1967	http://topomaps.usgs.gov
USGS, 1967	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Intervals 25 feet: Triunfo Pass, California, 1949, Photorevised, 1967		Washington, D.C.	1967	http://topomaps.usgs.gov

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Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1972	U.S. Department of the Interior, Geological Survey	7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 5 feet: Anaheim, California, 1965, Photorevised, 1972		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 20 feet: Beverly Hills, California, 1966, Photorevised, 1972		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 40 feet, Burbank, California, 1966, Photorevised, 1972		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 20 feet: El Monte, California, 1966 Photorevised, 1972		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 5 feet: Hollywood, California, 1966, Photorevised, 1972		Washington, D.C.	1972	http://topomaps.usgs.gov

Table 33: Bibliography and References, continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1972	U.S. Department of the Interior, Geological Survey	7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 5 feet: Inglewood, California, 1964, Photorevised, 1972		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 20 feet: La Habra, California, 1964, Photorevised, 1972		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 5 feet: Los Alamitos, California, 1964, Photorevised, 1972		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 5 feet: Newport Beach, California, 1965, Photorevised, 1972		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 20 feet: Orange, California, 1964, Photorevised, 1972		Washington, D.C.	1974	http://topomaps.usgs.gov

Table 33: Bibliography and References, continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1972	U.S. Department of the Interior, Geological Survey	7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 20 feet: Redondo Beach, California, 1963, Photorevised, 1972		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 20 feet: Torrance, California, 1964, Photorevised, 1972		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 10 feet: Venice, California, 1964, Photorevised, 1972		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 20 feet: Whittier, California, 1965, Photorevised, 1972		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1973	U.S. Department of the Interior, Geological Survey	7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 5 feet: Seal Beach, California, 1965, Photorevised, 1973		Washington, D.C.	1973	http://topomaps.usgs.gov

Table 33: Bibliography and References, continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1973	U.S. Department of the Interior, Geological Survey	Map of Flood-Prone Areas, Scale 1:24,000, Contour Interval 10 feet, Avalon, California, 1973		Washington, D.C.	1973	http://topomaps.usgs.gov
USGS, 1973	U.S. Department of the Interior, Geological Survey	Map of Flood-Prone Areas, Scale 1:24,000, Contour Interval 10 feet: Santa Catalina Island East, California, 1973		Washington, D.C.	1973	http://topomaps.usgs.gov
USGS, 1977	U.S. Department of the Interior, Geological Survey	Journal of Research, "A Method for Adjusting Values of Manning's Roughness Coefficient for Flooded Urban Areas," Volume 5, Number 5	Hejl Jr., H. R.	City of Lawrence, KS	October 1977	
USGS, 1977	U.S. Department of the Interior, Geological Survey	Magnitude and Frequency of Floods in California, Water-Resources Investigations 77-21	A. O. Waananen, J. R. Crippen	Washington, D.C.	1977	http://pubs.usgs.gov/wri/ wri77-21/
USGS, 1981	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 20 feet, Thousand Oaks, California, 1950, Photorevised 1981		Washington, D.C.	1981	http://topomaps.usgs.gov

Table 33: Bibliography and References, continued

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Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 2009- 2011	USGS	LiDAR OPC/USGS 2009- 2011 and BATH NOAA			2009-2011	
Whittier, 1968	City of Whittier	Base Map, 1968		City of Whittier, CA	1968	https://www.whittierlibrary.org/
Whittier, 1955	City of Whittier	Metropolitan Topographic Survey, Scale 1:24,000, Contour Interval 5 feet		City of Whittier, CA	1955	https://www.whittierlibrary.org/

N/A = Not Available

## FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

**VOLUME 5 OF 9** 



# LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
AGOURA HILLS, CITY OF	065072	COMMERCE, CITY OF	060110
ALHAMBRA, CITY OF*	060095	COMPTON, CITY OF	060111
ARCADIA, CITY OF*	065014	COVINA, CITY OF*	065024
ARTESIA, CITY OF*	060097	CUDAHY, CITY OF	060657
AVALON, CITY OF	060098	CULVER CITY, CITY OF	060114
AZUSA, CITY OF	065015	DIAMOND BAR, CITY OF	060741
BALDWIN PARK, CITY OF*	060100	DOWNEY, CITY OF	060645
BELL, CITY OF*	060101	DUARTE, CITY OF*	065026
BELL GARDENS, CITY OF	060656	EL MONTE, CITY OF*	060658
BELLFLOWER, CITY OF	060102	EL SEGUNDO, CITY OF	060118
BEVERLY HILLS, CITY OF*	060655	GARDENA, CITY OF	060119
BRADBURY, CITY OF*	065017	GLENDALE, CITY OF	065030
BURBANK, CITY OF	065018	GLENDORA, CITY OF*	065031
CALABASAS, CITY OF	060749	HAWAIIAN GARDENS, CITY OF*	065032
CARSON, CITY OF	060107	HAWTHORNE, CITY OF*	060123
CERRITOS, CITY OF	060108	HERMOSA BEACH, CITY OF	060124
CLAREMONT, CITY OF*	060109	HIDDEN HILLS, CITY OF	060125

^{*}No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

FLOOD INSURANCE STUDY NUMBER

06037CV005F

Version Number 2.3.3.2



COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
HUNTINGTON PARK, CITY OF*	060126	PICO RIVERA, CITY OF	060148
INDUSTRY, CITY OF*	065035	POMONA, CITY OF*	060149
INGLEWOOD, CITY OF*	065036	RANCHO PALOS VERDES, CITY OF	060464
IRWINDALE, CITY OF*	060129	REDONDO BEACH, CITY OF	060150
LA CANADA FLINTRIDGE, CITY OF*	060669	ROLLING HILLS, CITY OF*	060151
LA HABRA HEIGHTS, CITY OF*	060701	ROLLING HILLS ESTATES, CITY OF*	065054
LA MIRADA, CITY OF	060131	ROSEMEAD, CITY OF*	060153
LA PUENTE*, CITY OF	065039	SAN DIMAS, CITY OF	060154
LA VERNE, CITY OF	060133	SAN FERNANDO, CITY OF	060628
LAKEWOOD, CITY OF	060130	SAN GABRIEL, CITY OF*	065055
LANCASTER, CITY OF	060672	SAN MARINO, CITY OF*	065057
LAWNDALE, CITY OF*	060134	SANTA CLARITA, CITY OF	060729
LOMITA, CITY OF*	060135	SANTA FE SPRINGS, CITY OF	060158
LONG BEACH, CITY OF	060136	SANTA MONICA, CITY OF	060159
LOS ANGELES, CITY OF	060137	SIERRA MADRE, CITY OF*	065059
LOS ANGELES COUNTY UNINCORPORATED AREAS	065043	SIGNAL HILL, CITY OF*	060161
LYNWOOD, CITY OF	060635	SOUTH EL MONTE, CITY OF*	060162
MALIBU, CITY OF	060745	SOUTH GATE, CITY OF	060163
MANHATTAN BEACH, CITY OF	060138	SOUTH PASADENA, CITY OF*	065061
MAYWOOD, CITY OF*	060651	TEMPLE CITY, CITY OF*	060653
MONROVIA, CITY OF*	065046	TORRANCE, CITY OF	060165
MONTEBELLO, CITY OF	060141	VERNON, CITY OF*	060166
MONTEREY PARK, CITY OF*	065047	WALNUT, CITY OF*	065069
NORWALK, CITY OF	060652	WEST COVINA, CITY OF	060666
PALMDALE, CITY OF	060144	WEST HOLLYWOOD, CITY OF*	060720
PALOS VERDES ESTATES, CITY OF	060145	WESTLAKE VILLAGE, CITY OF	060744
PARAMOUNT, CITY OF	065049	WHITTIER, CITY OF	060169
PASADENA, CITY OF*	065050		

^{*}No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

### FLOOD INSURANCE STUDY NUMBER **06037CV005F**

Version Number 2.3.3.2



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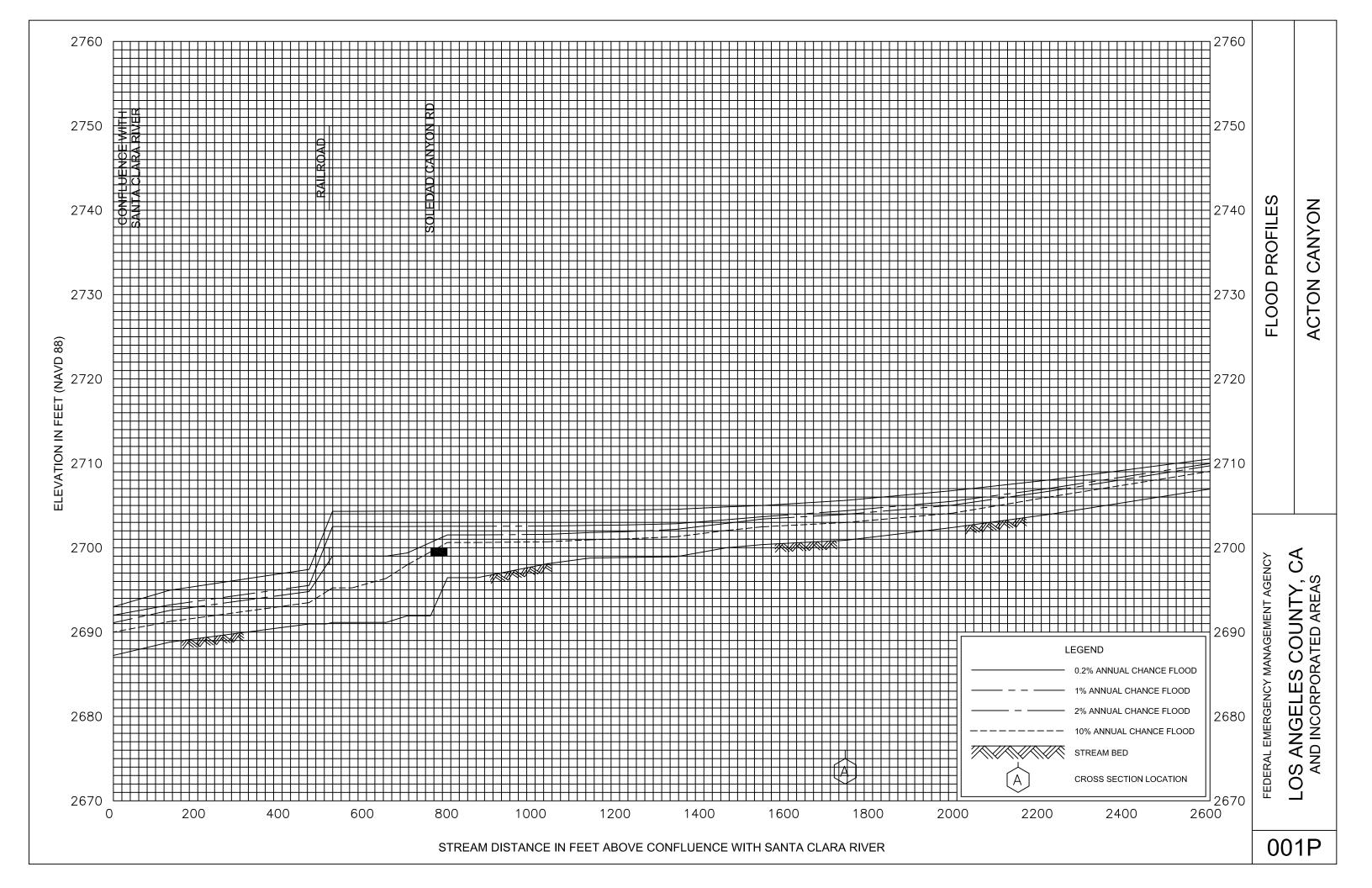
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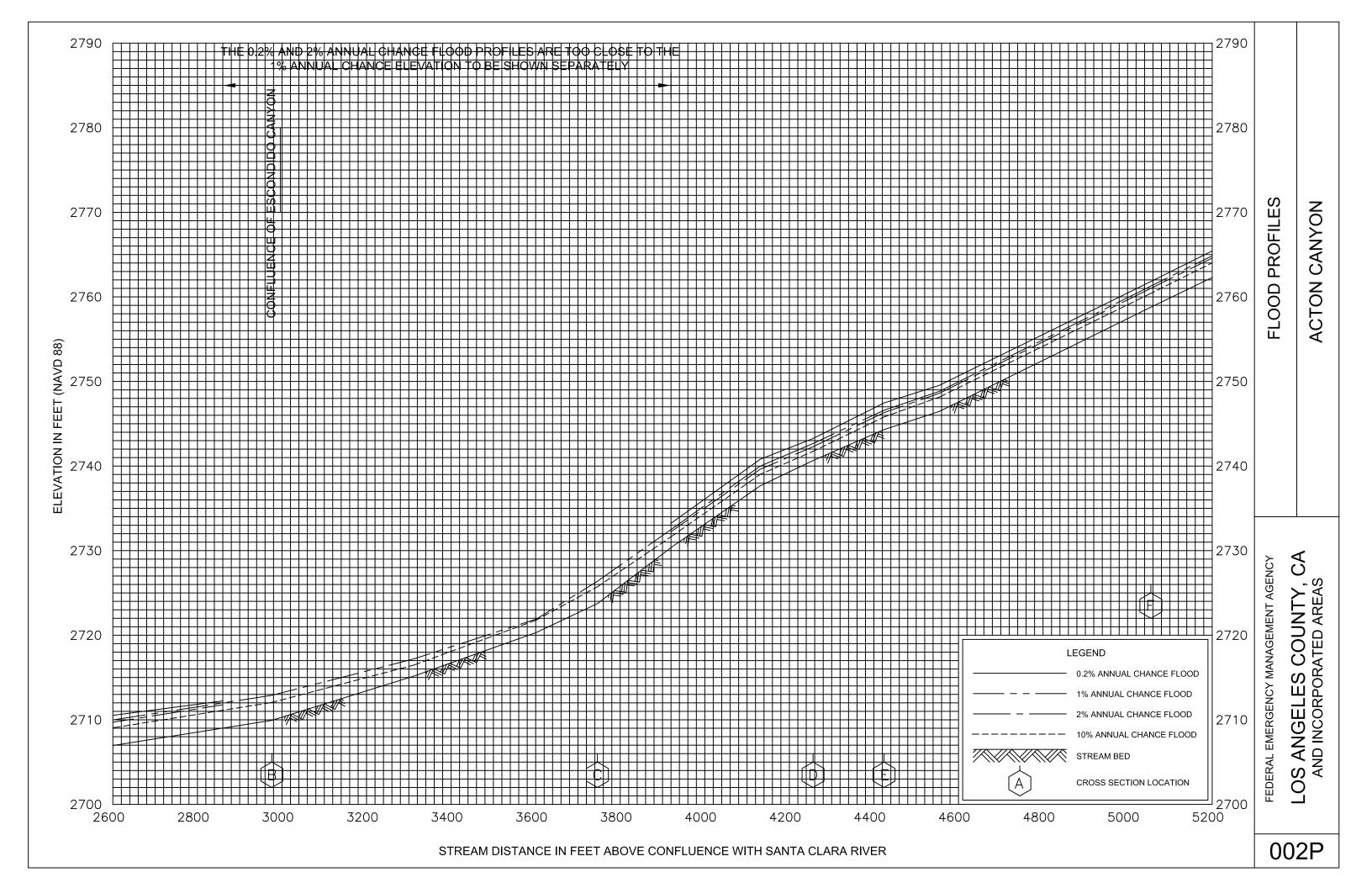
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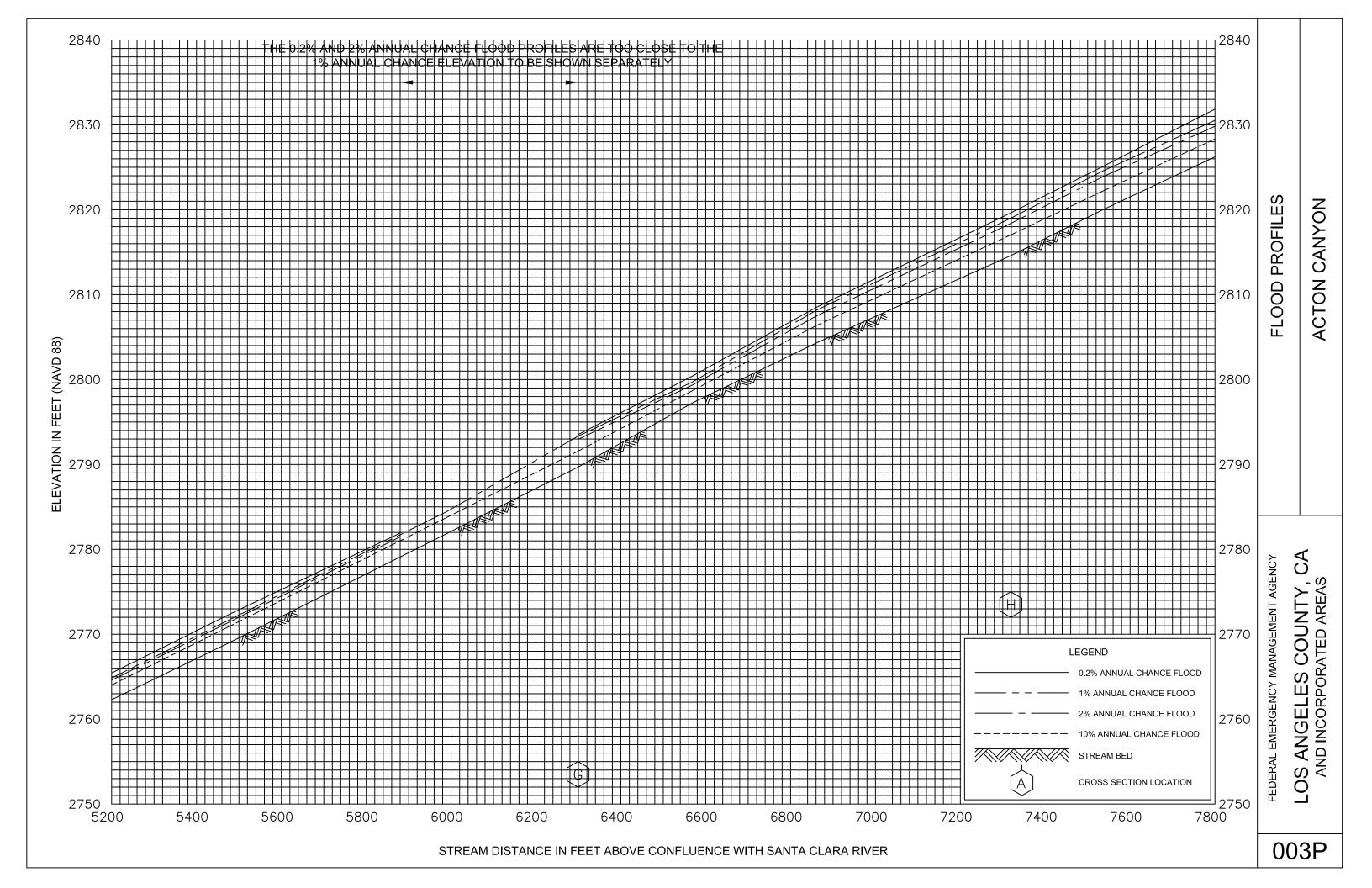
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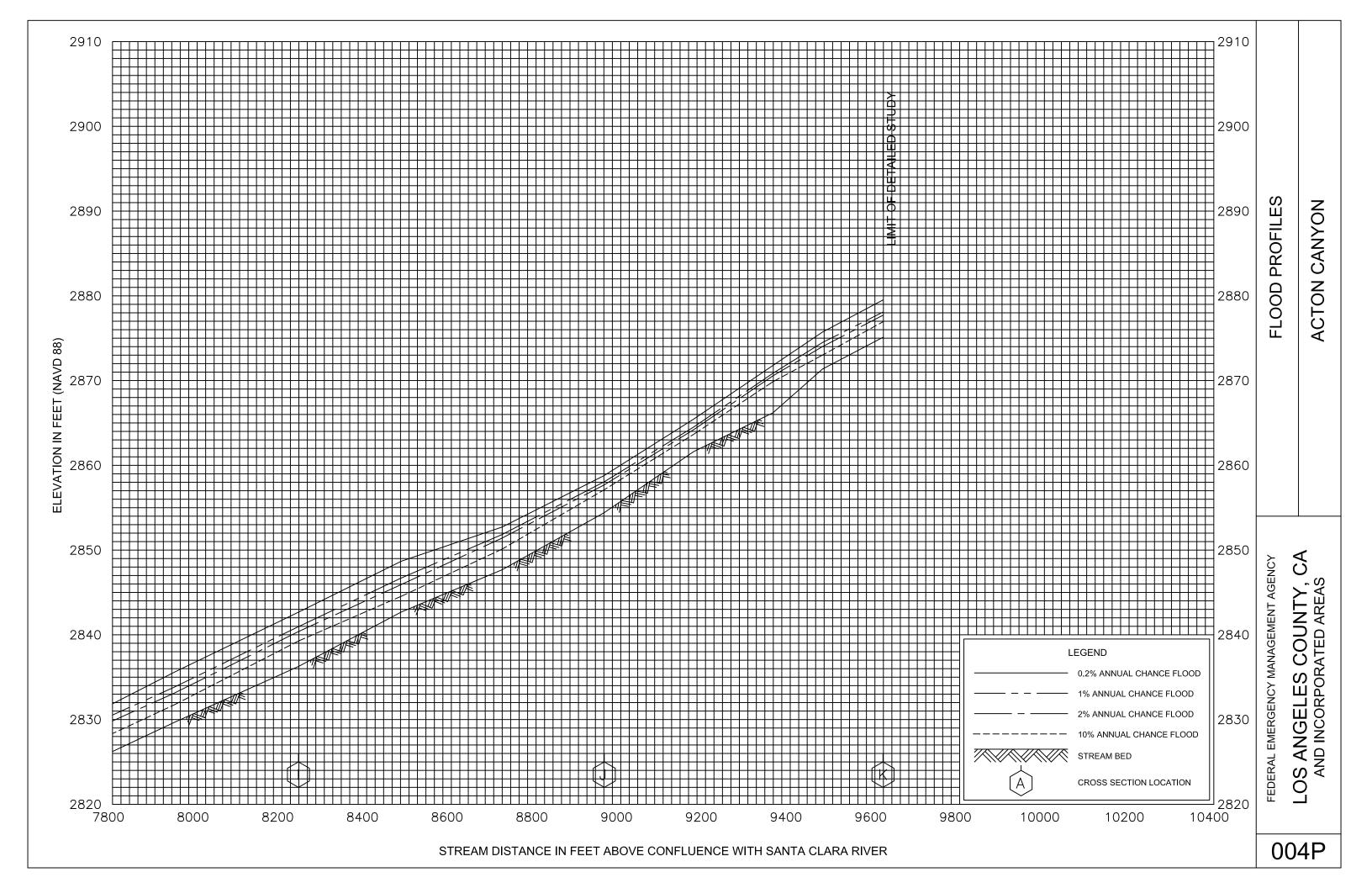
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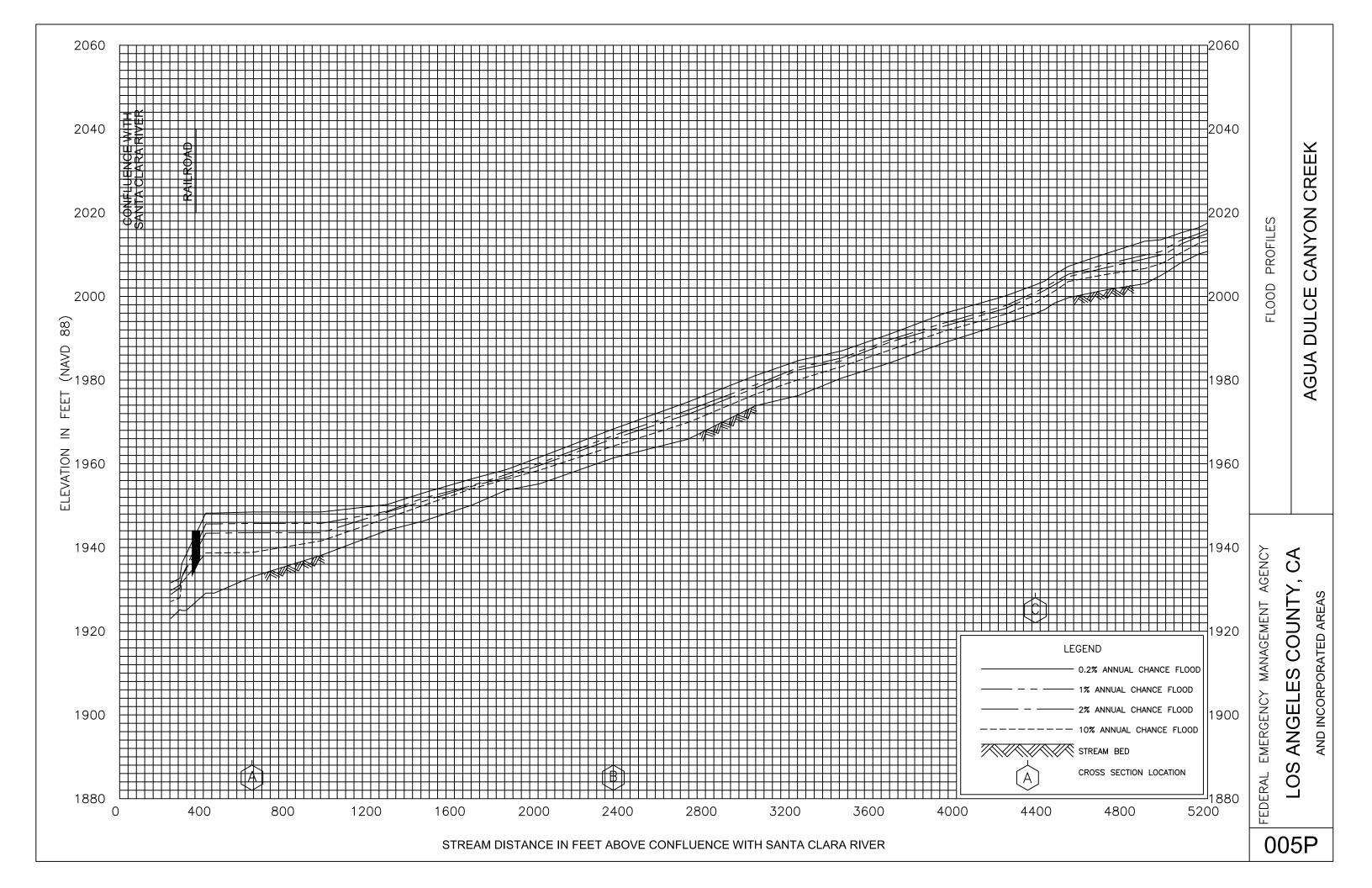
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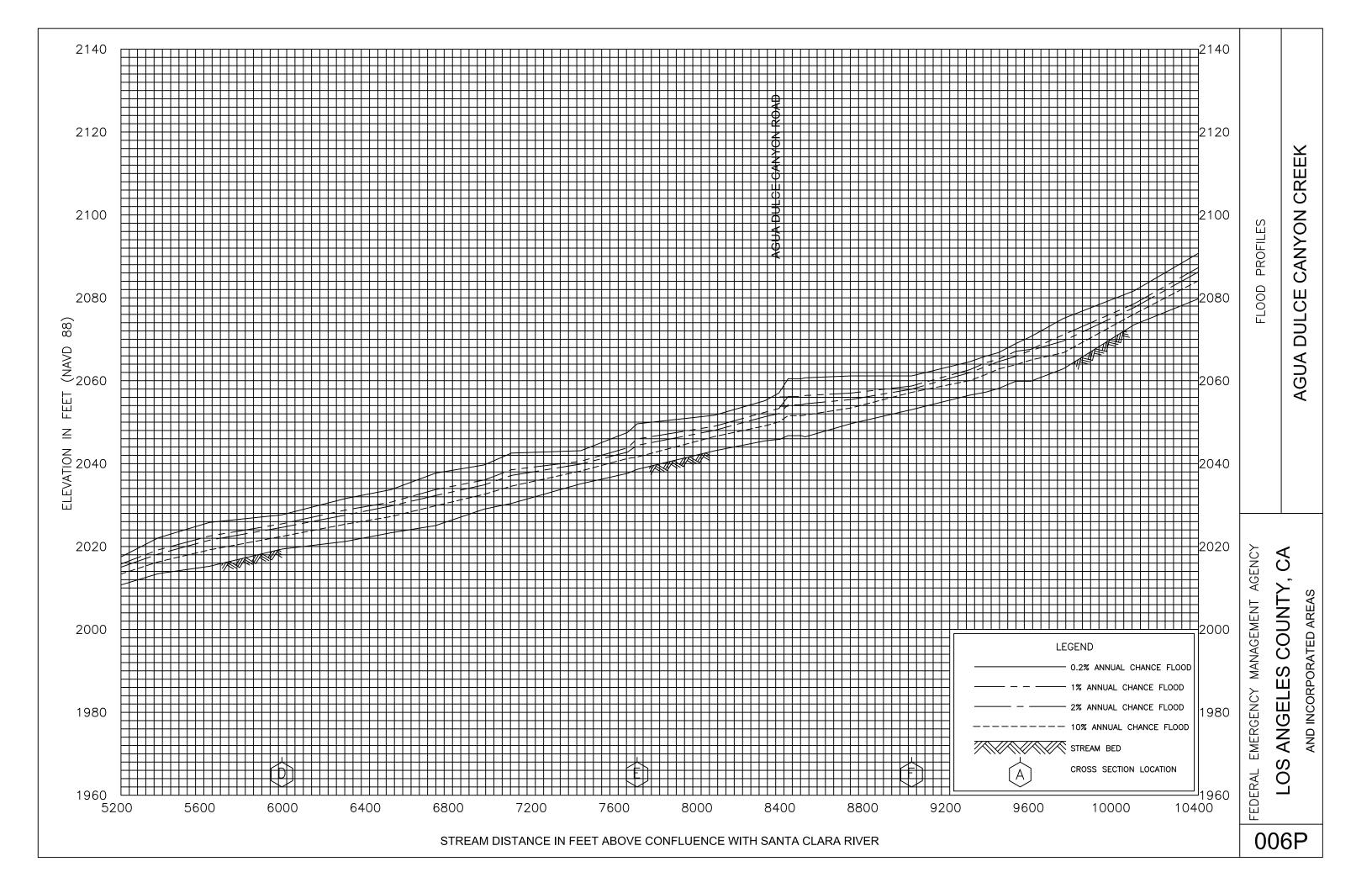


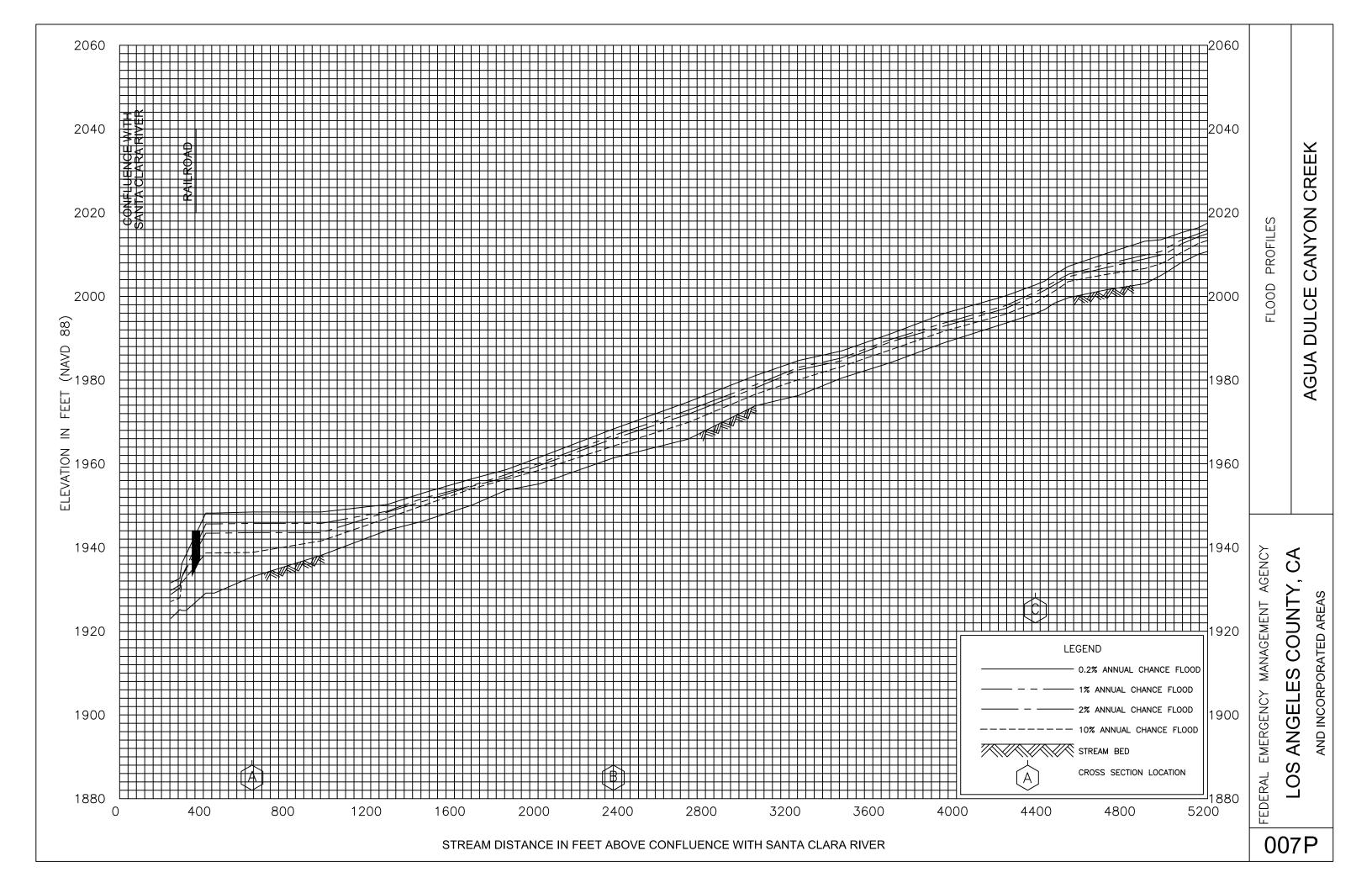


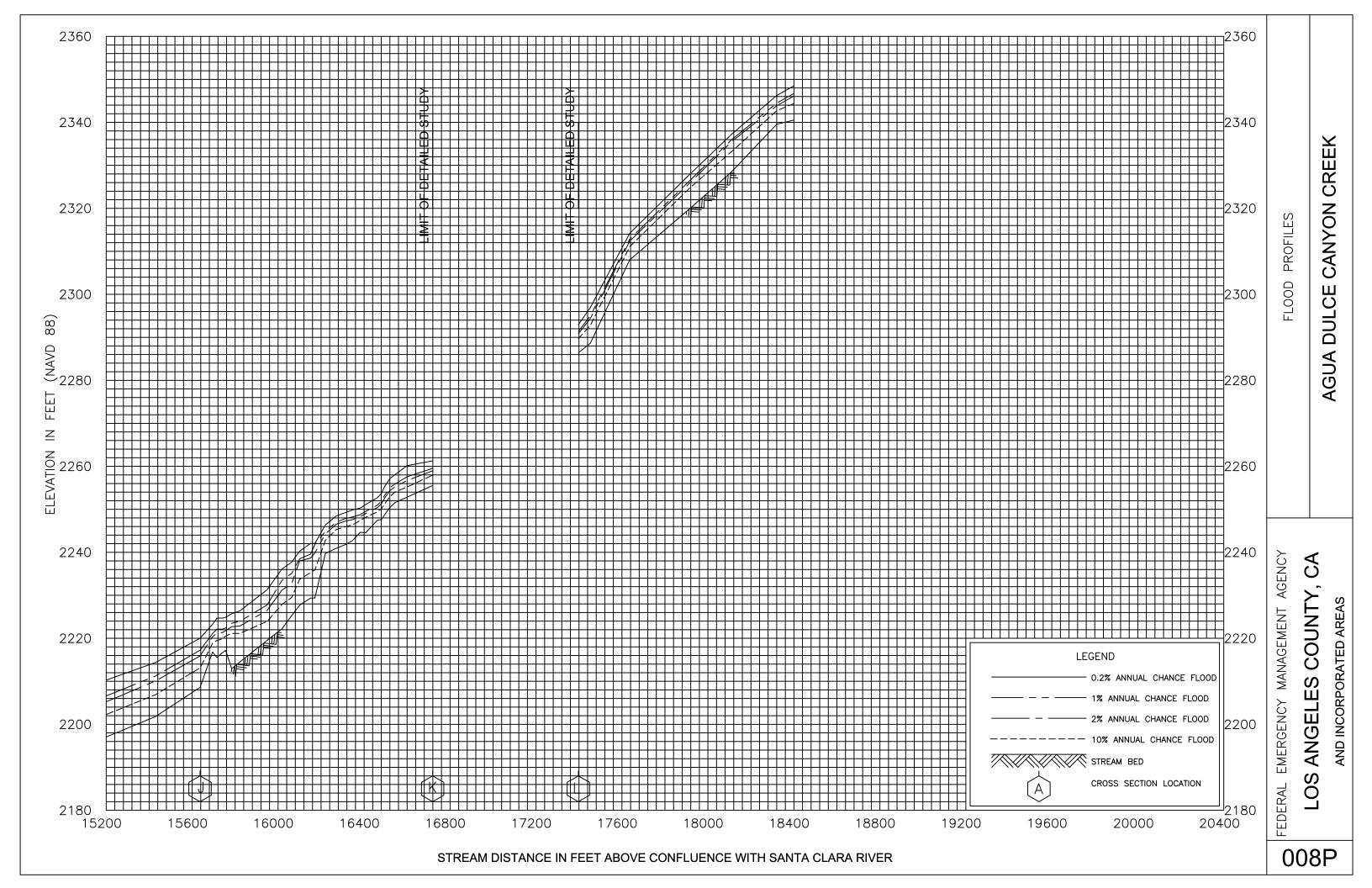


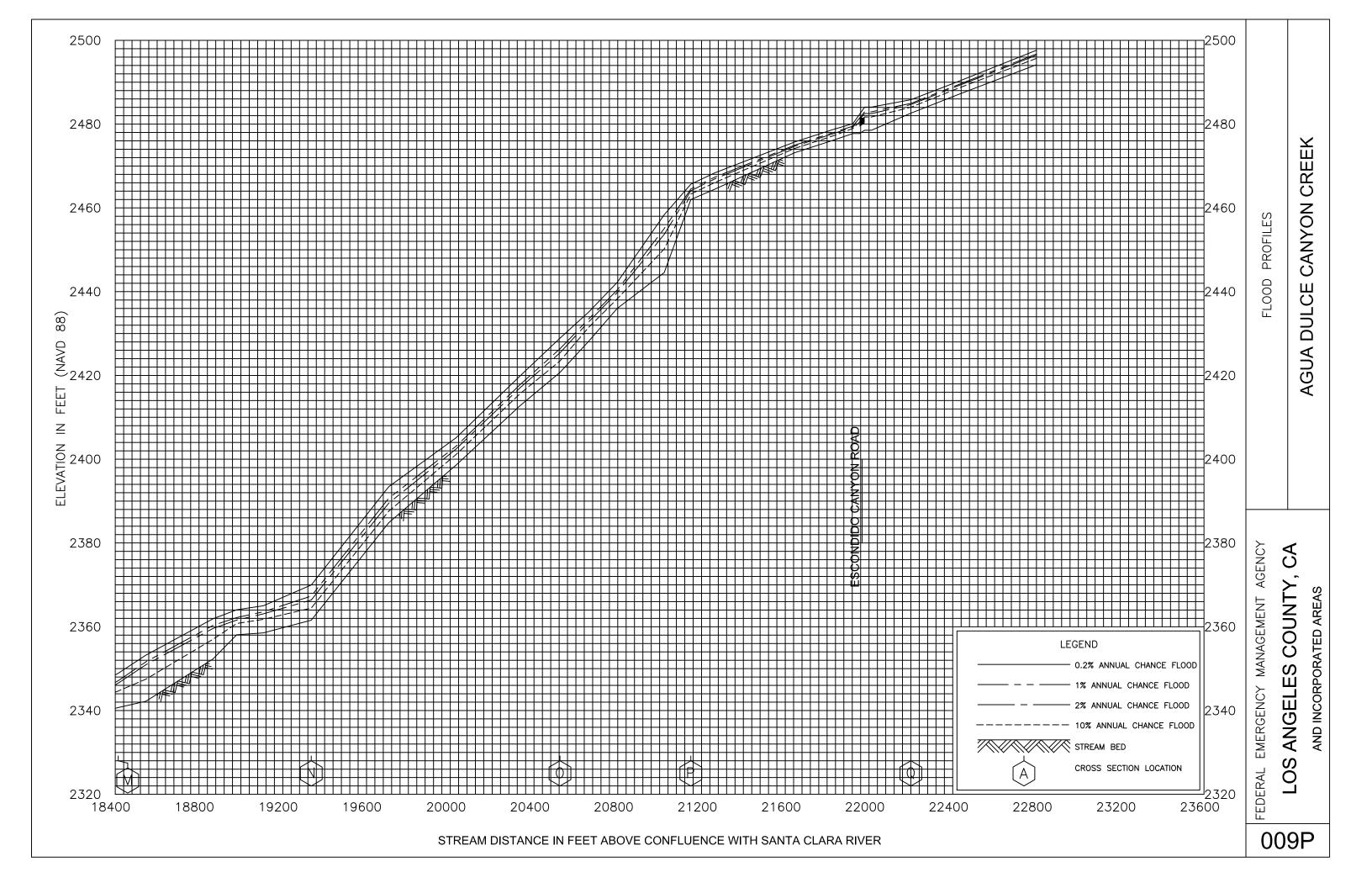


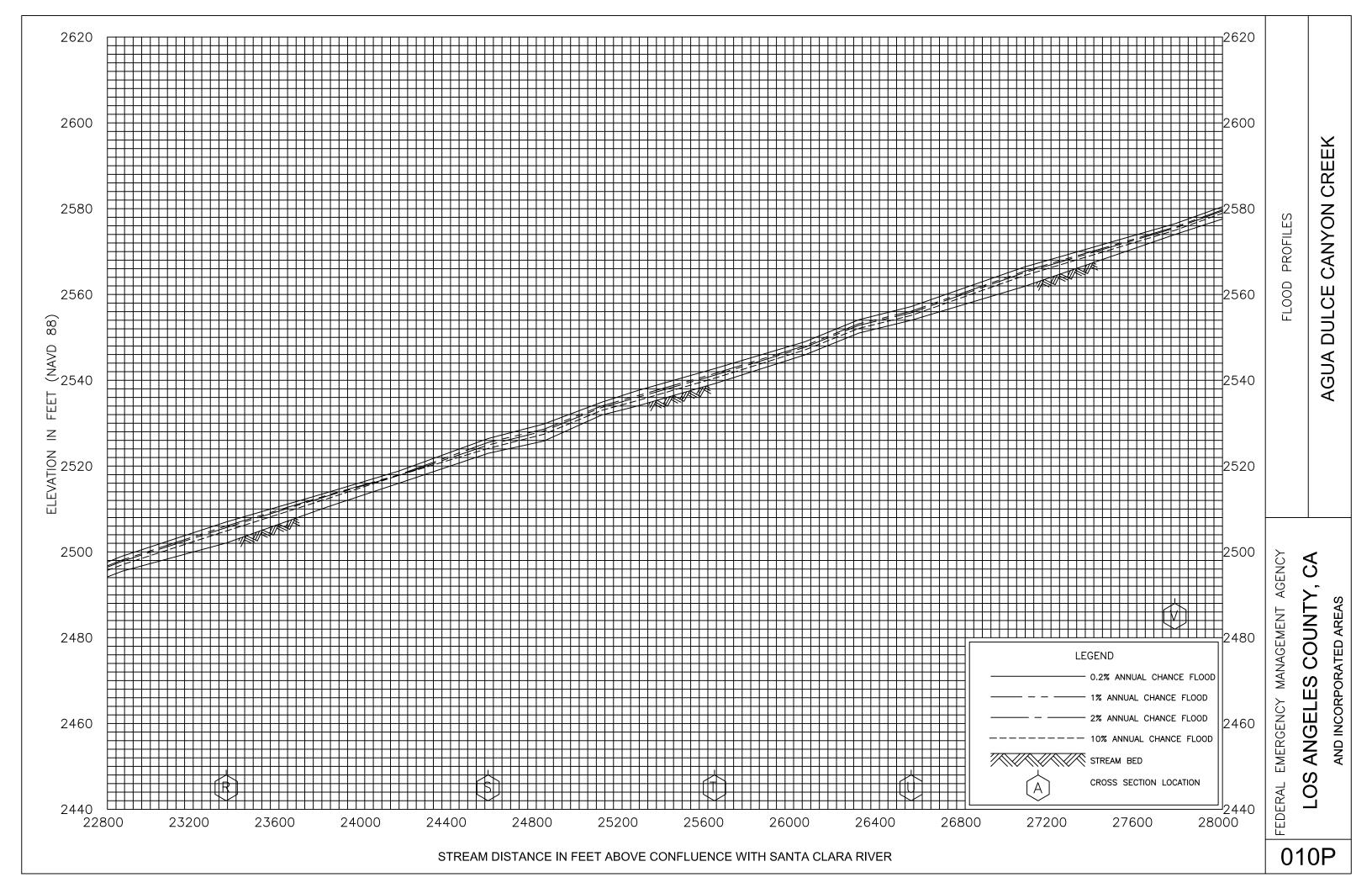


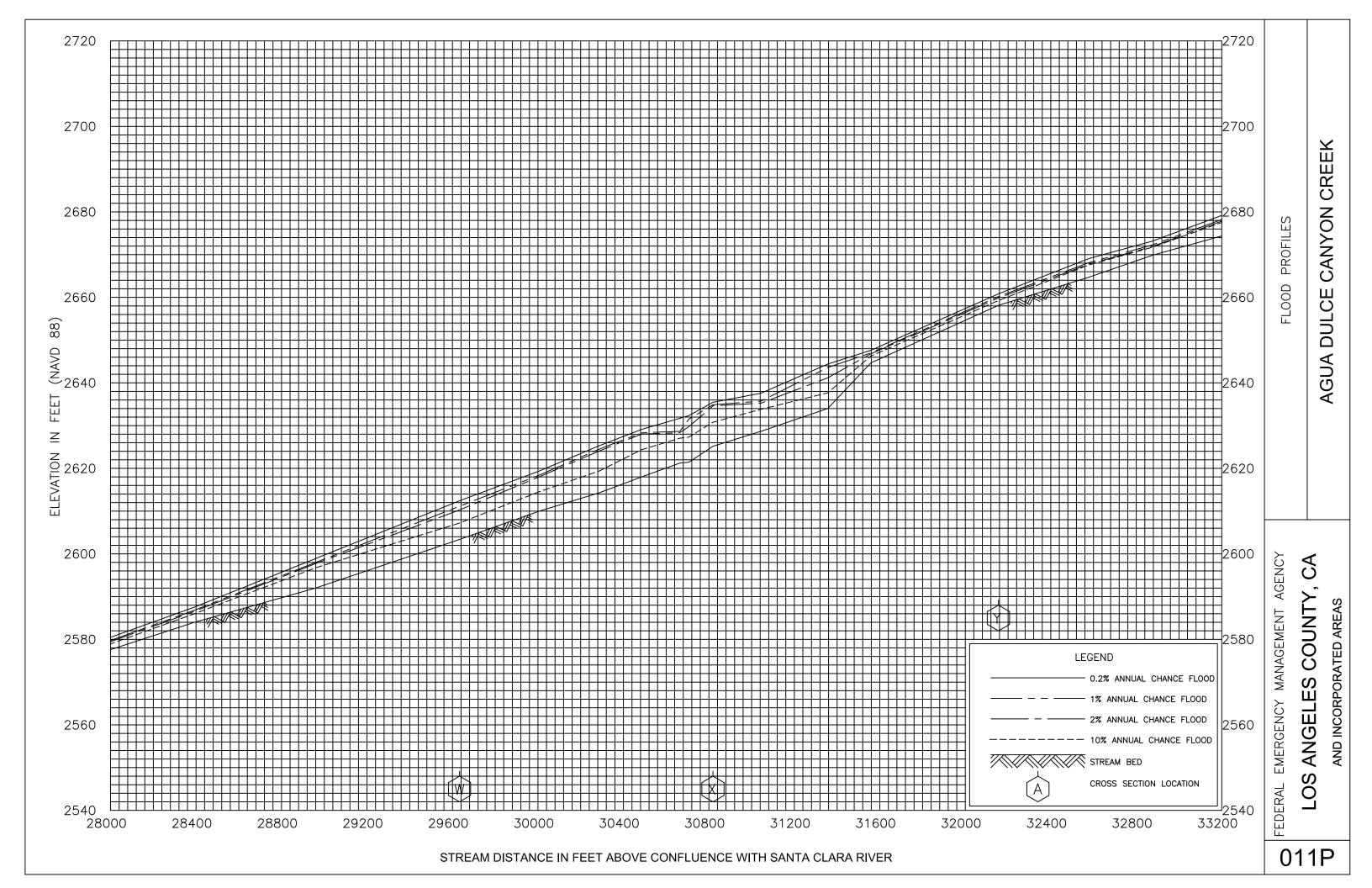


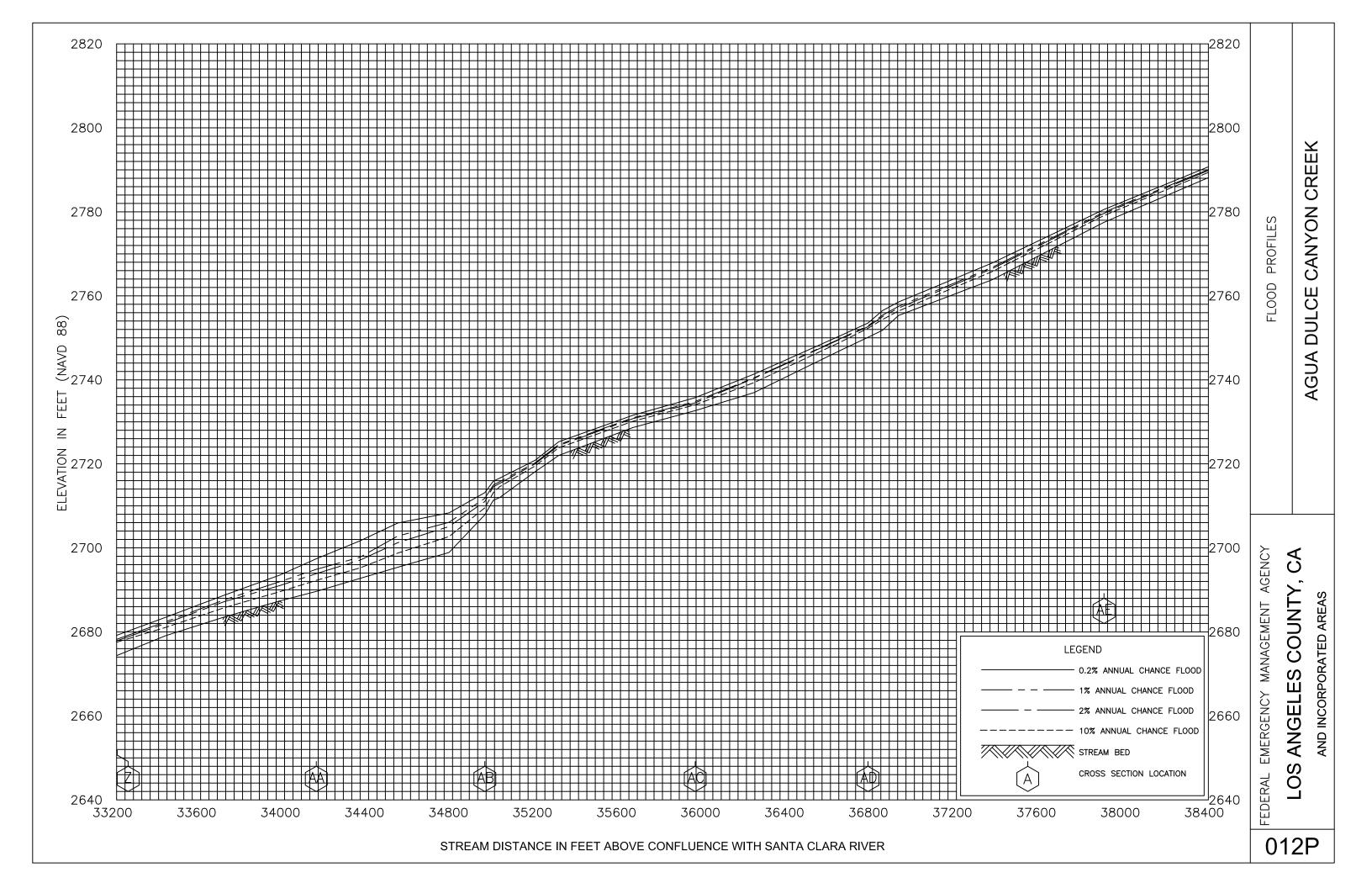


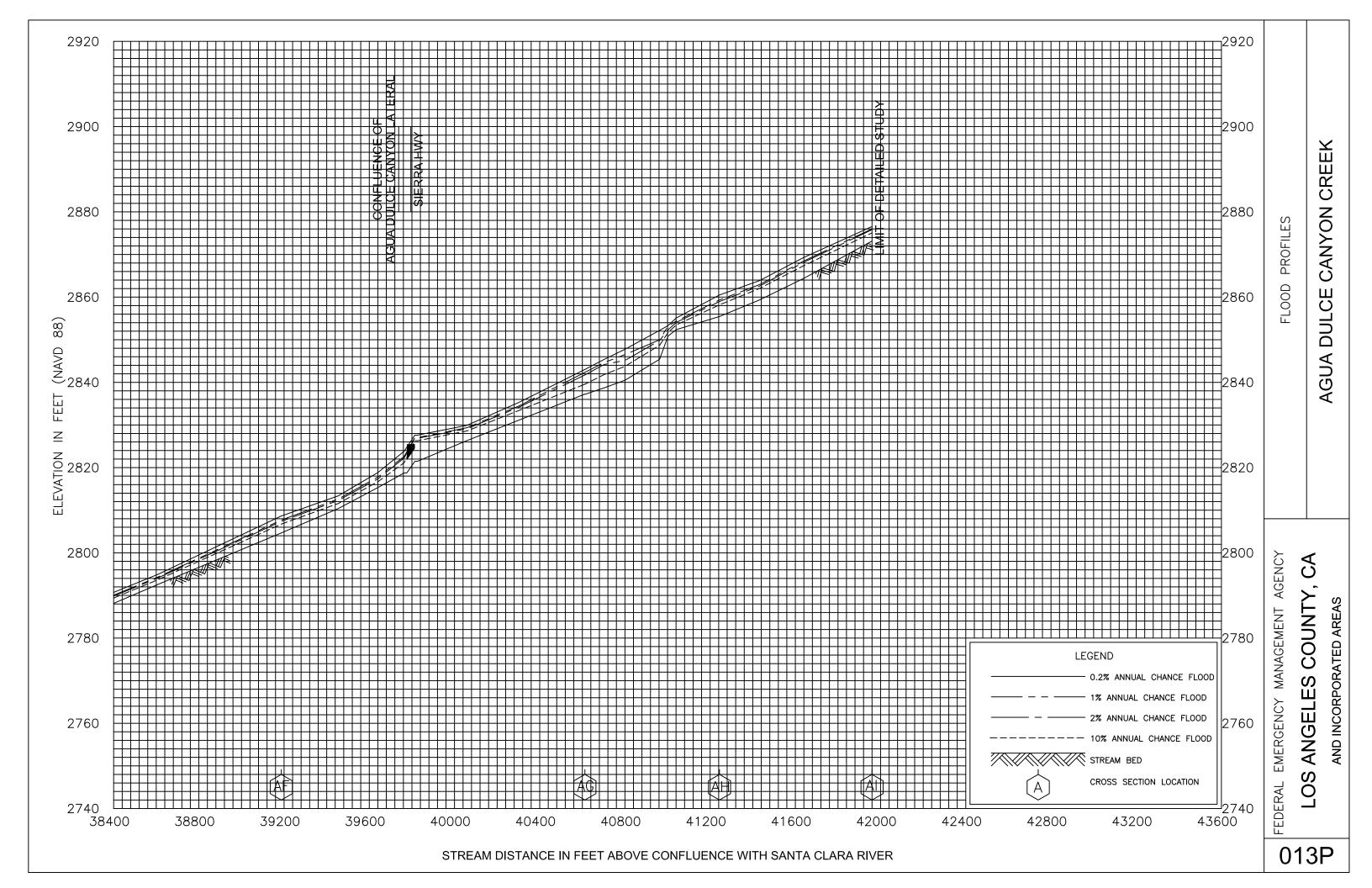


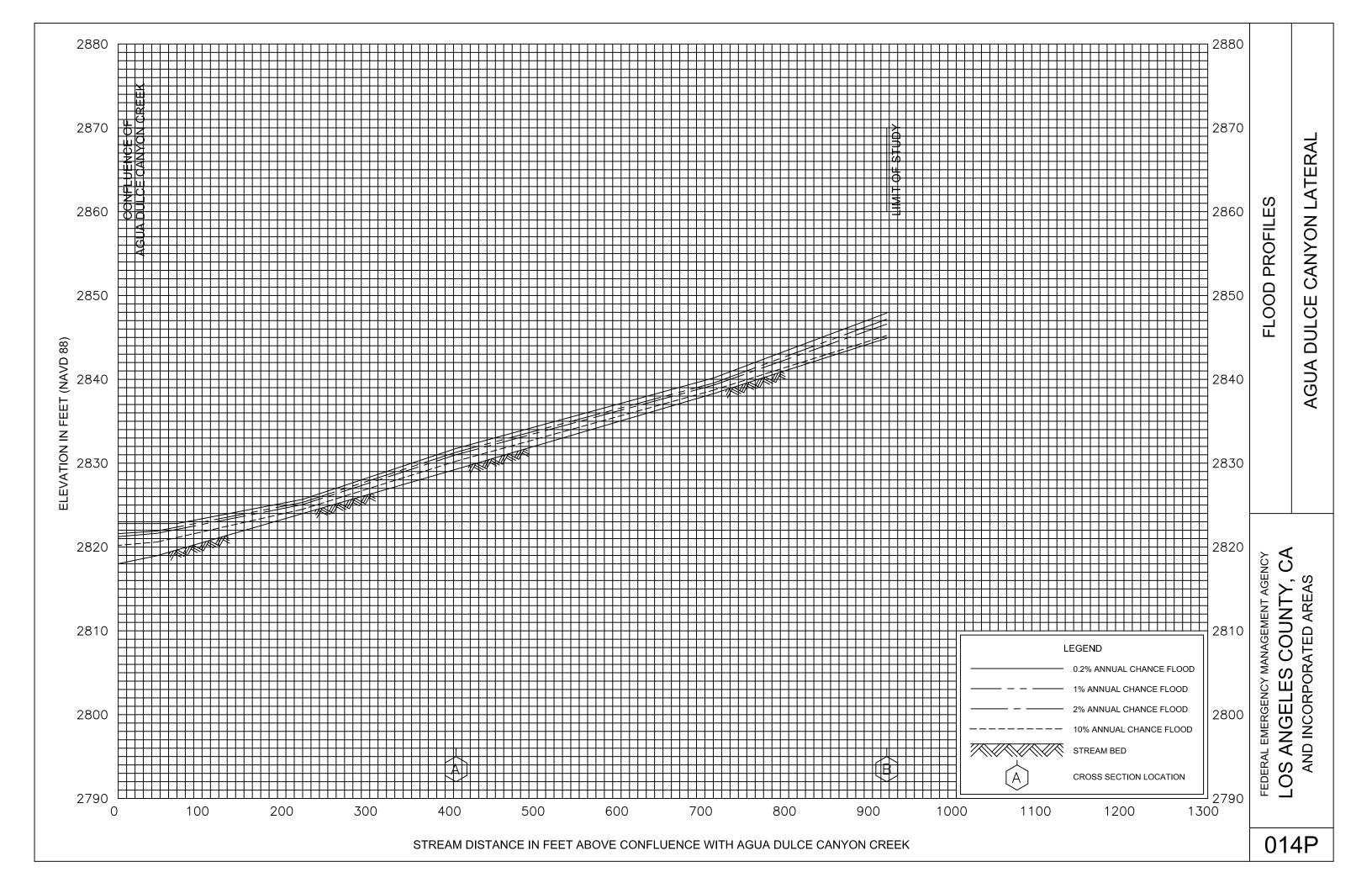


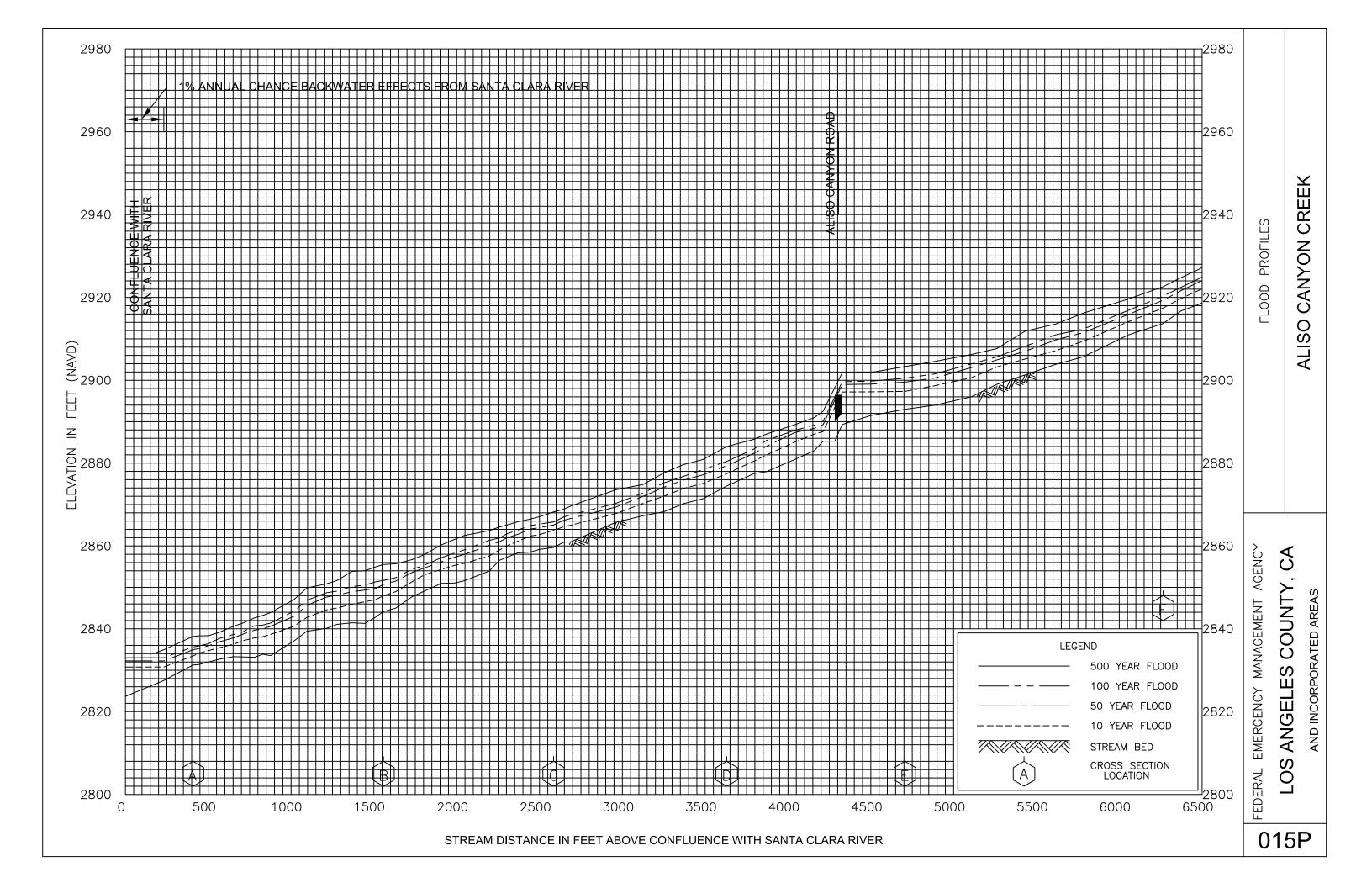


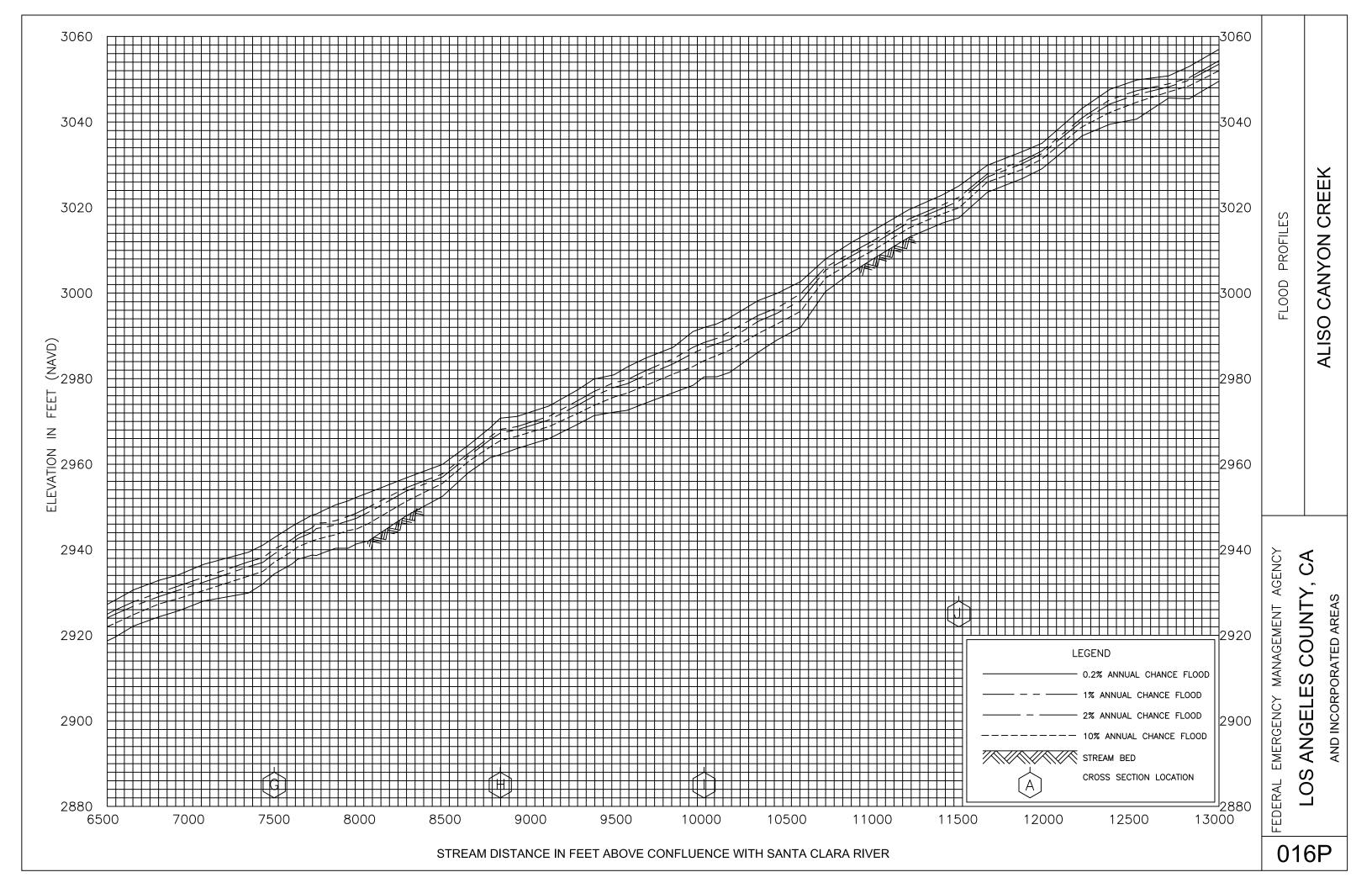


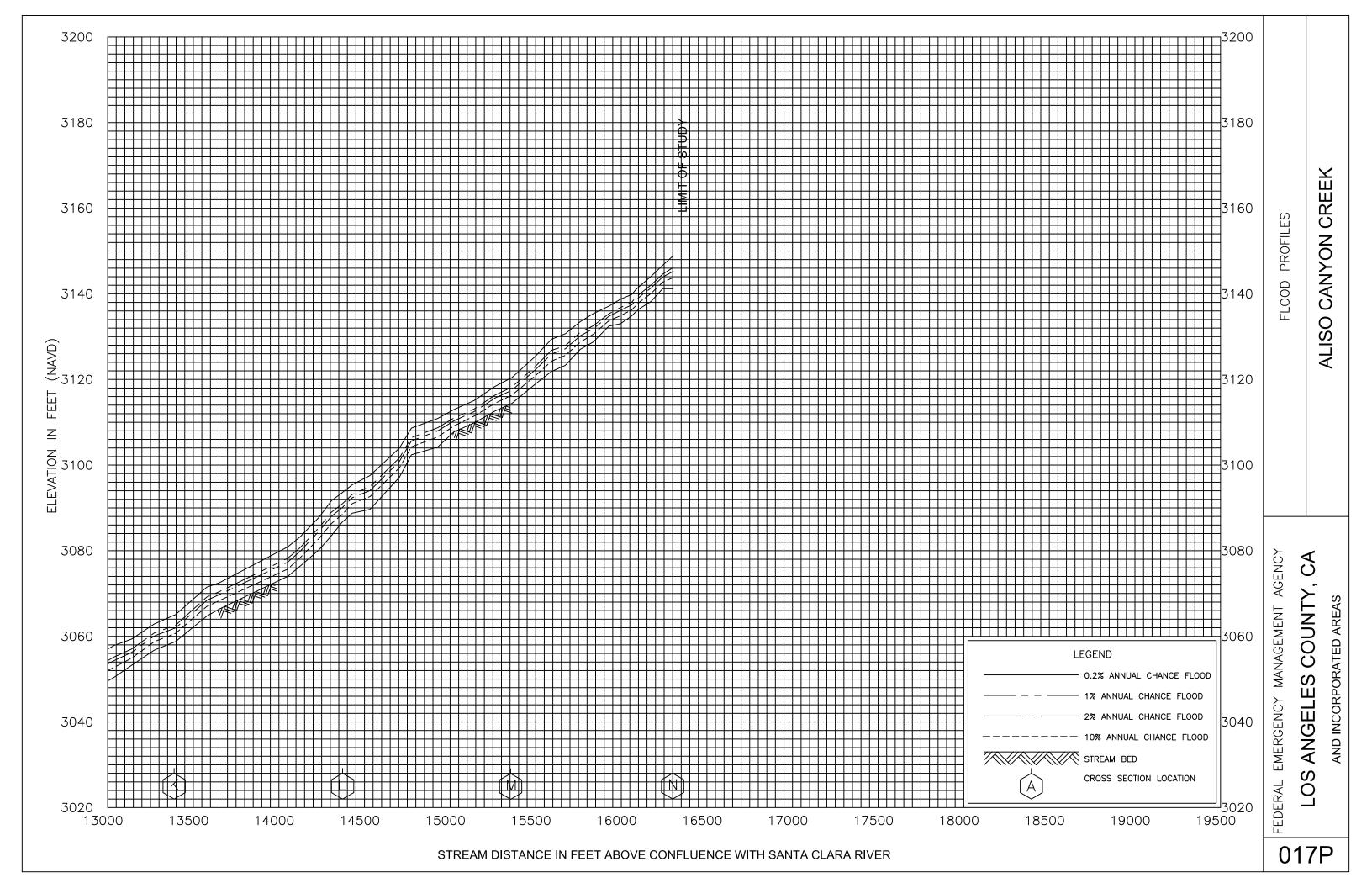


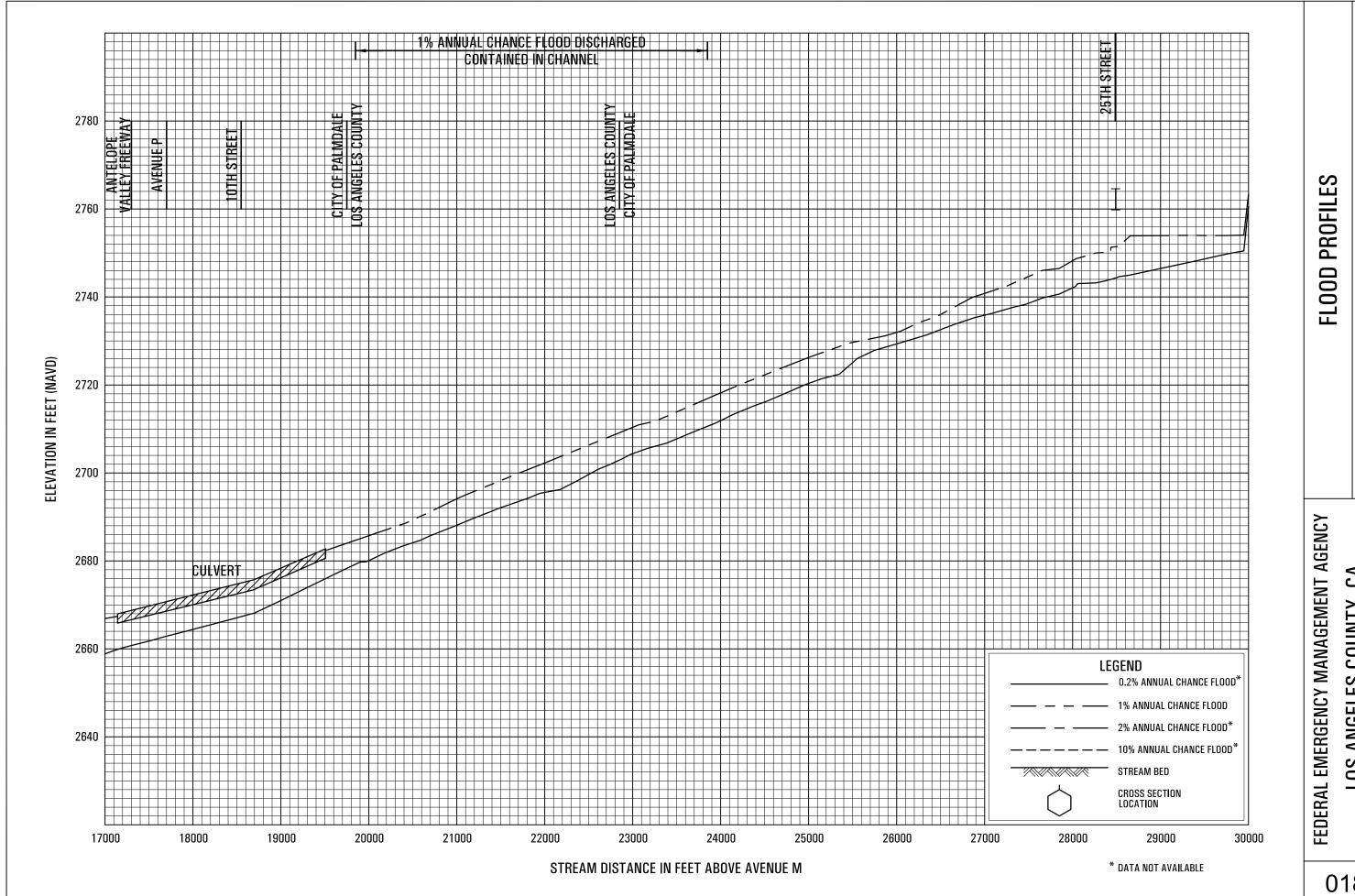






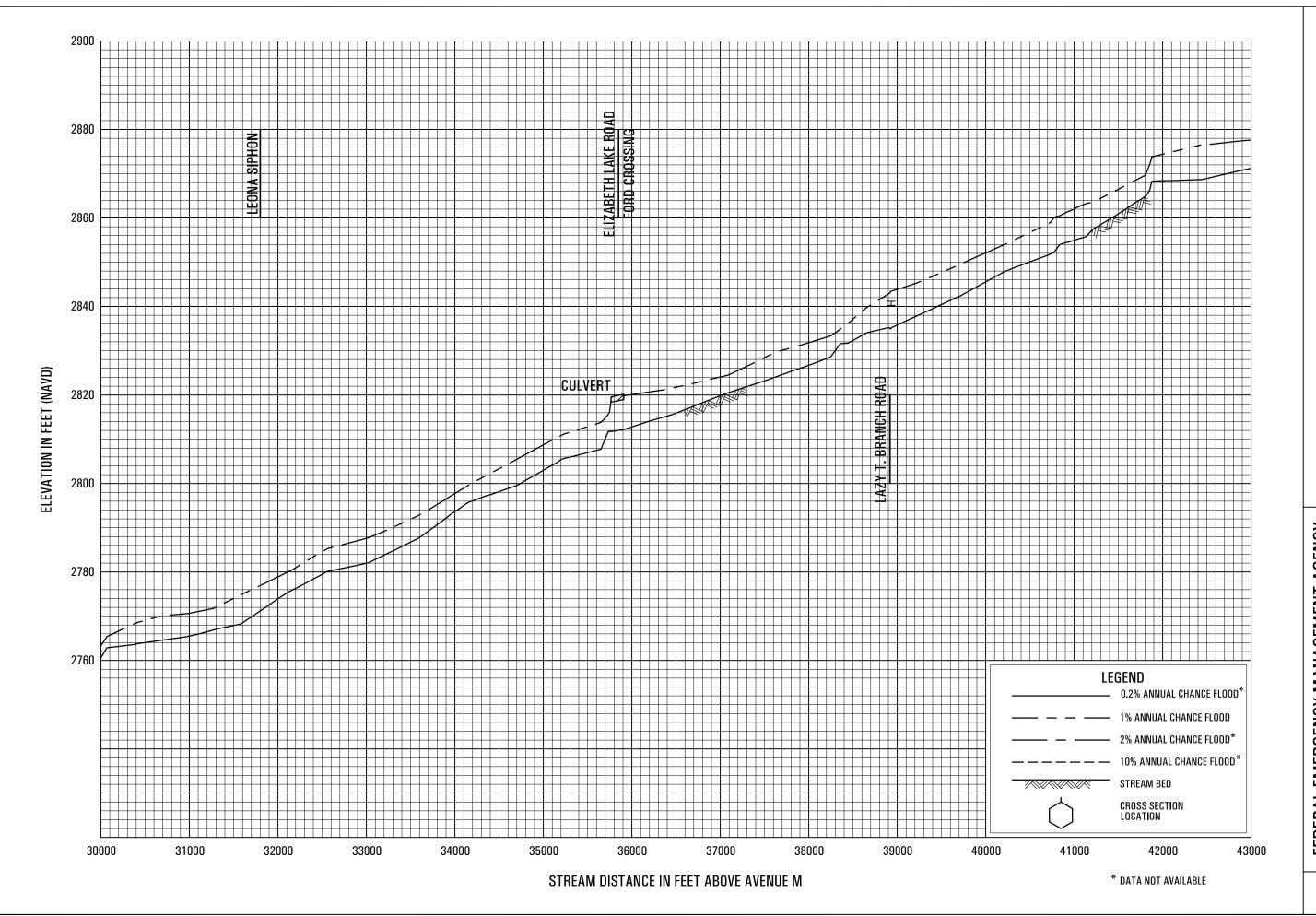






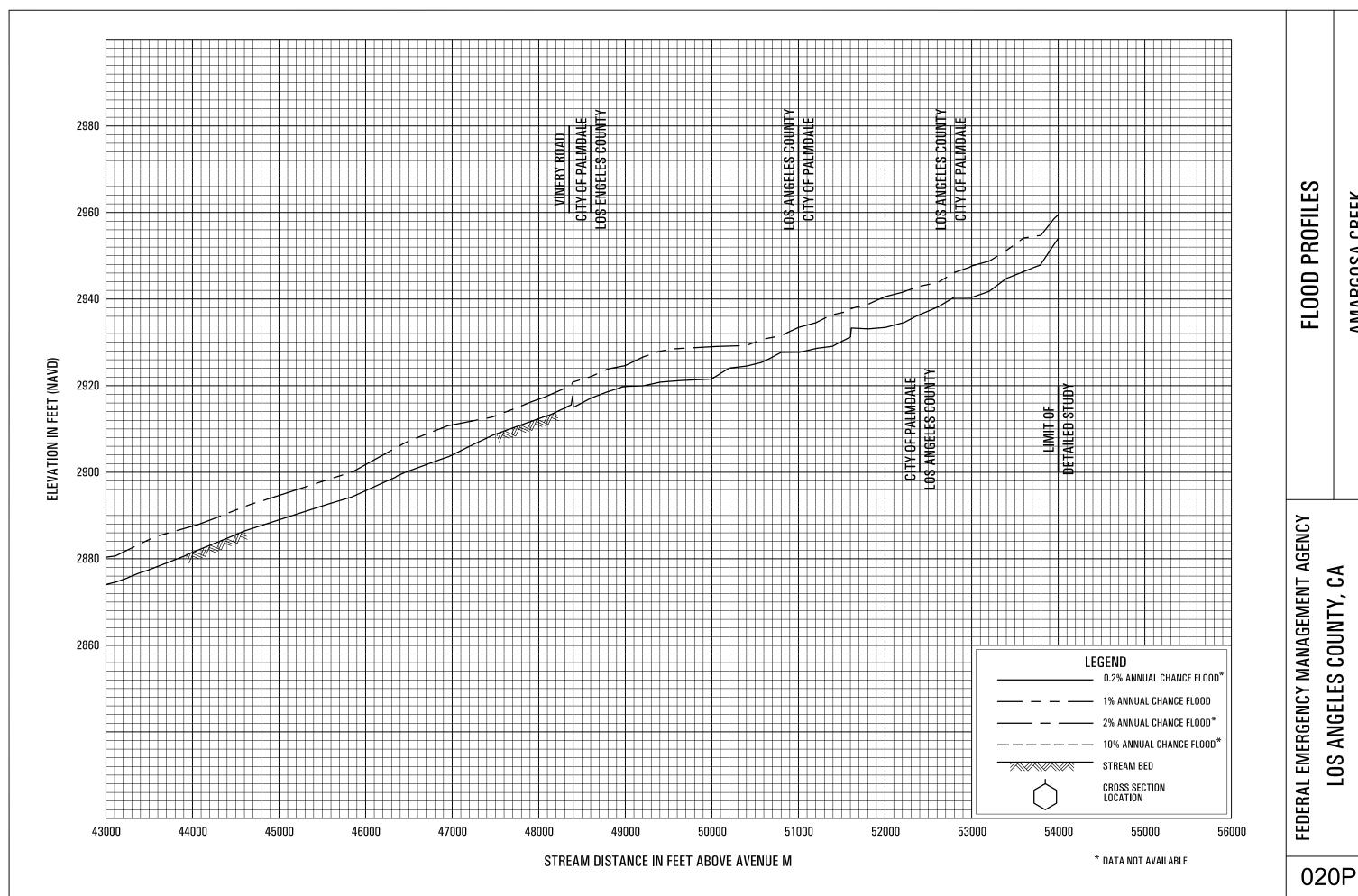
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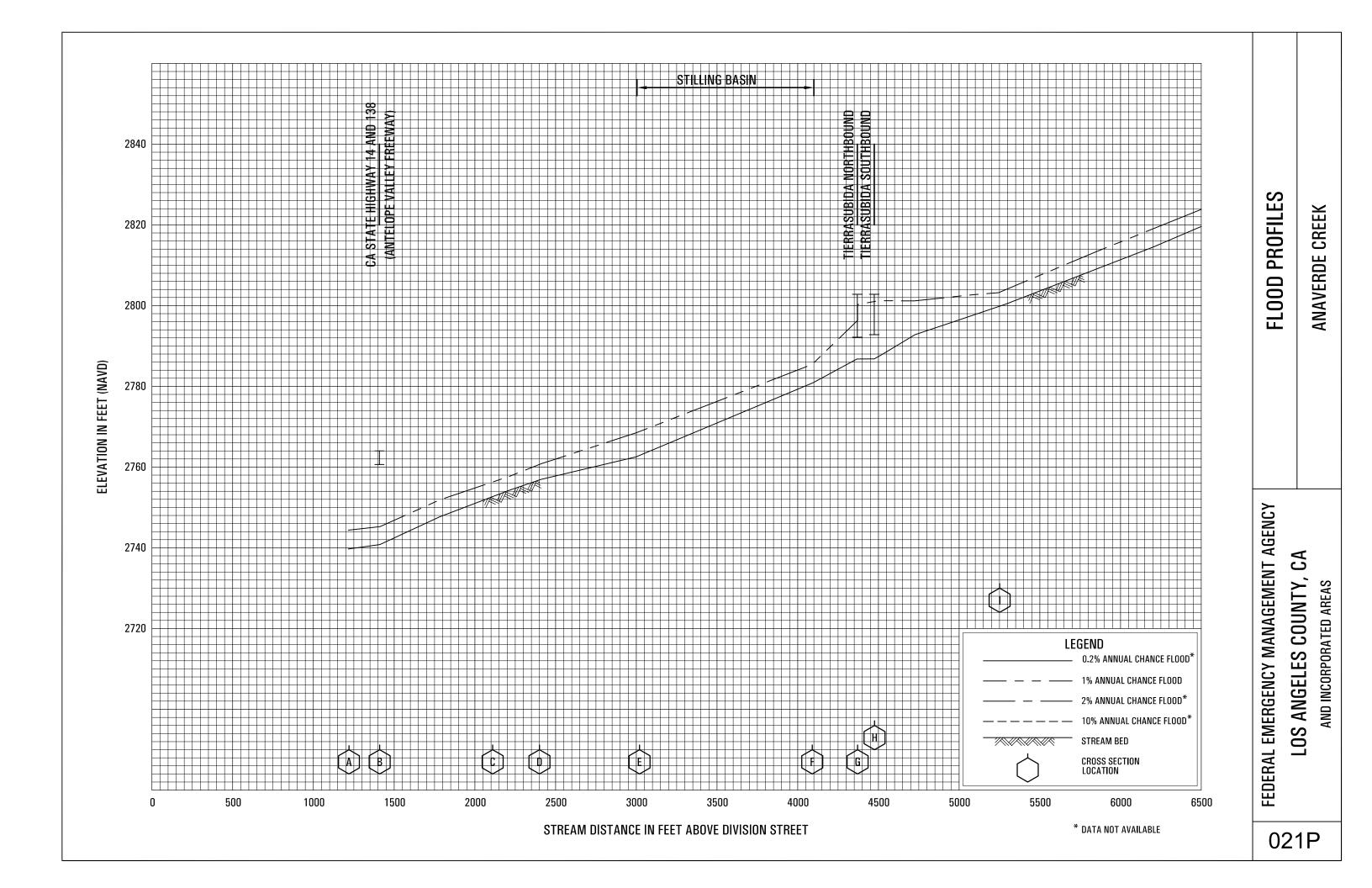
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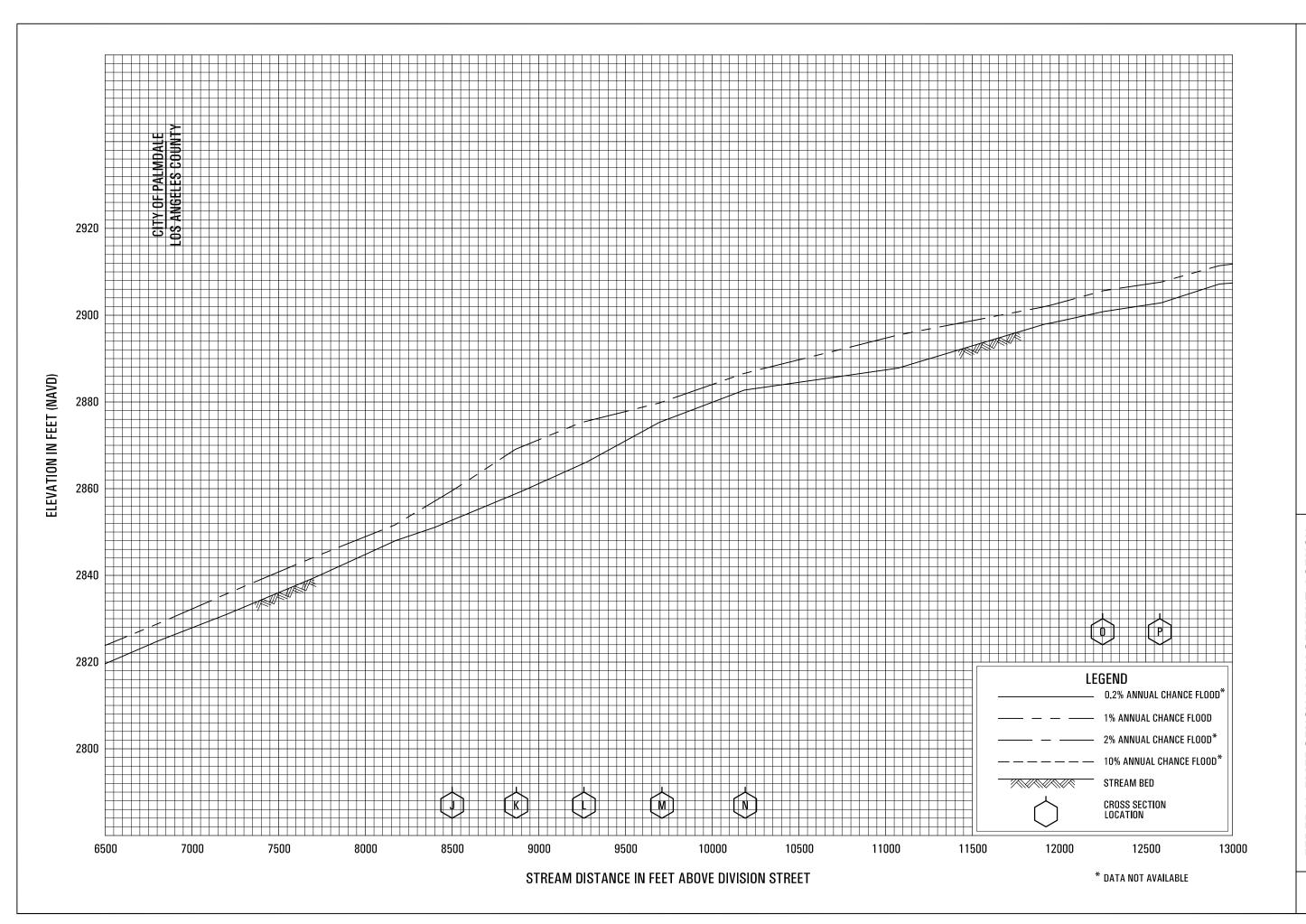
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**AMARGOSA CREEK** 

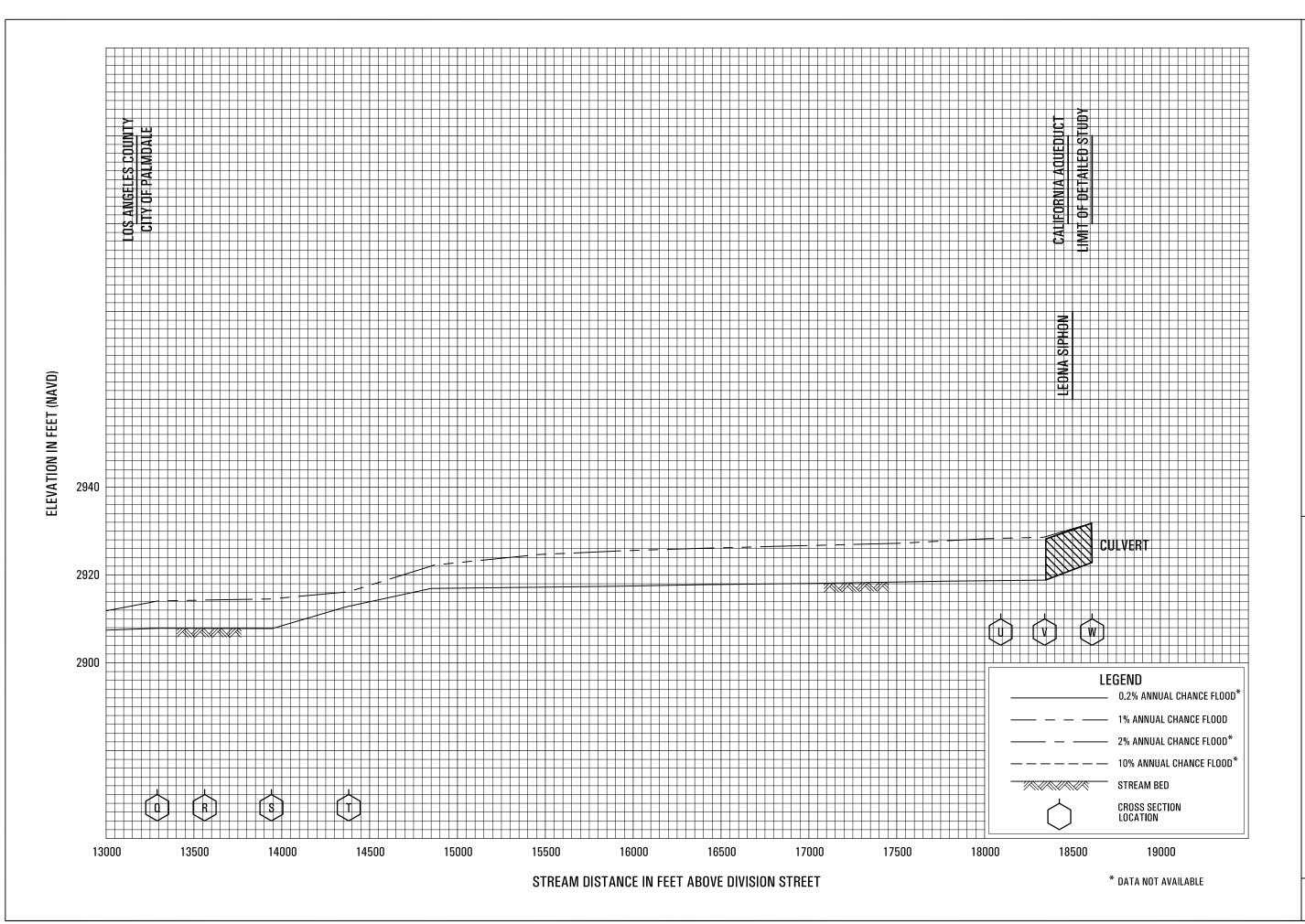
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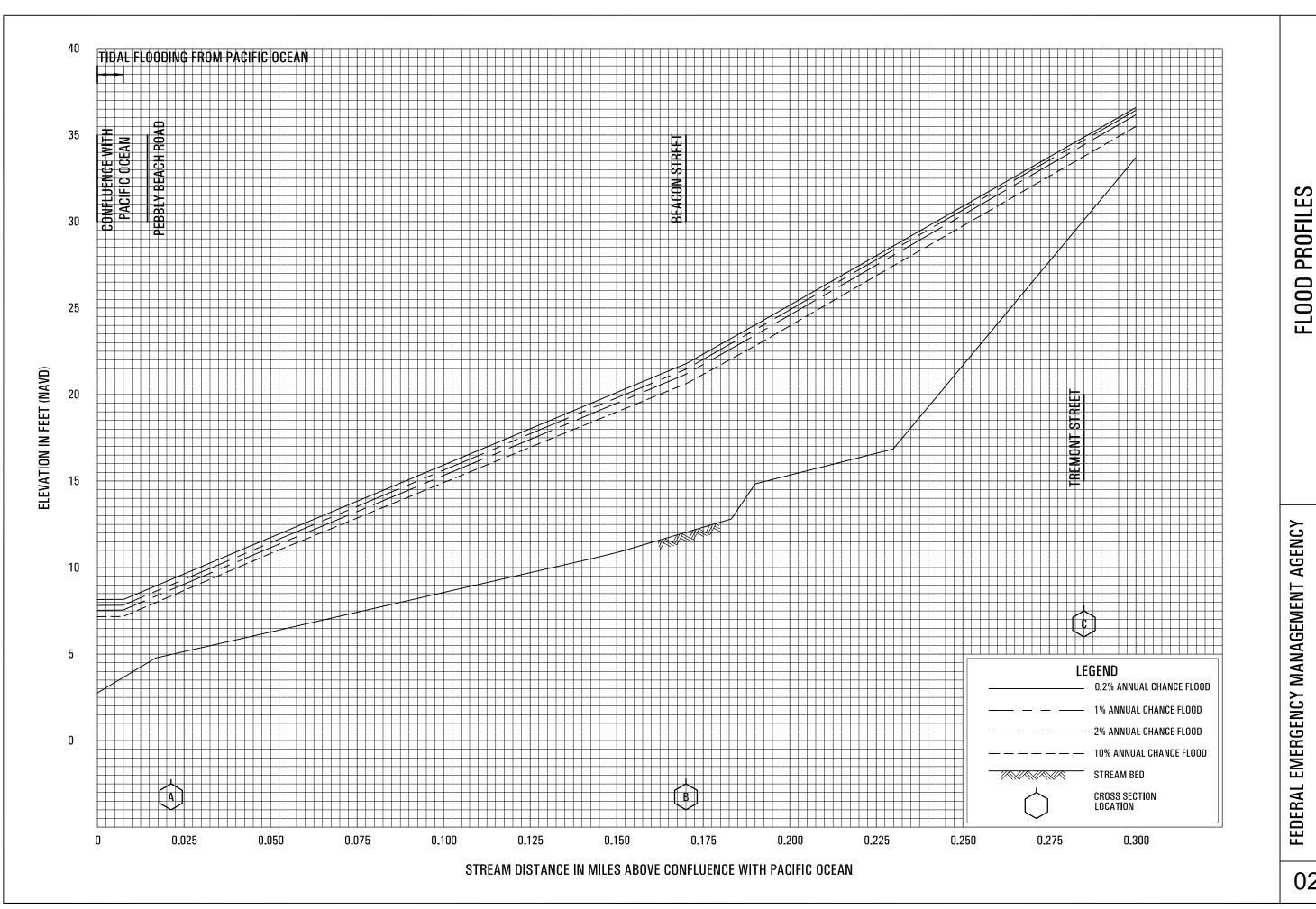
ANAVERDE CREEK

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ANAVERDE CREEK

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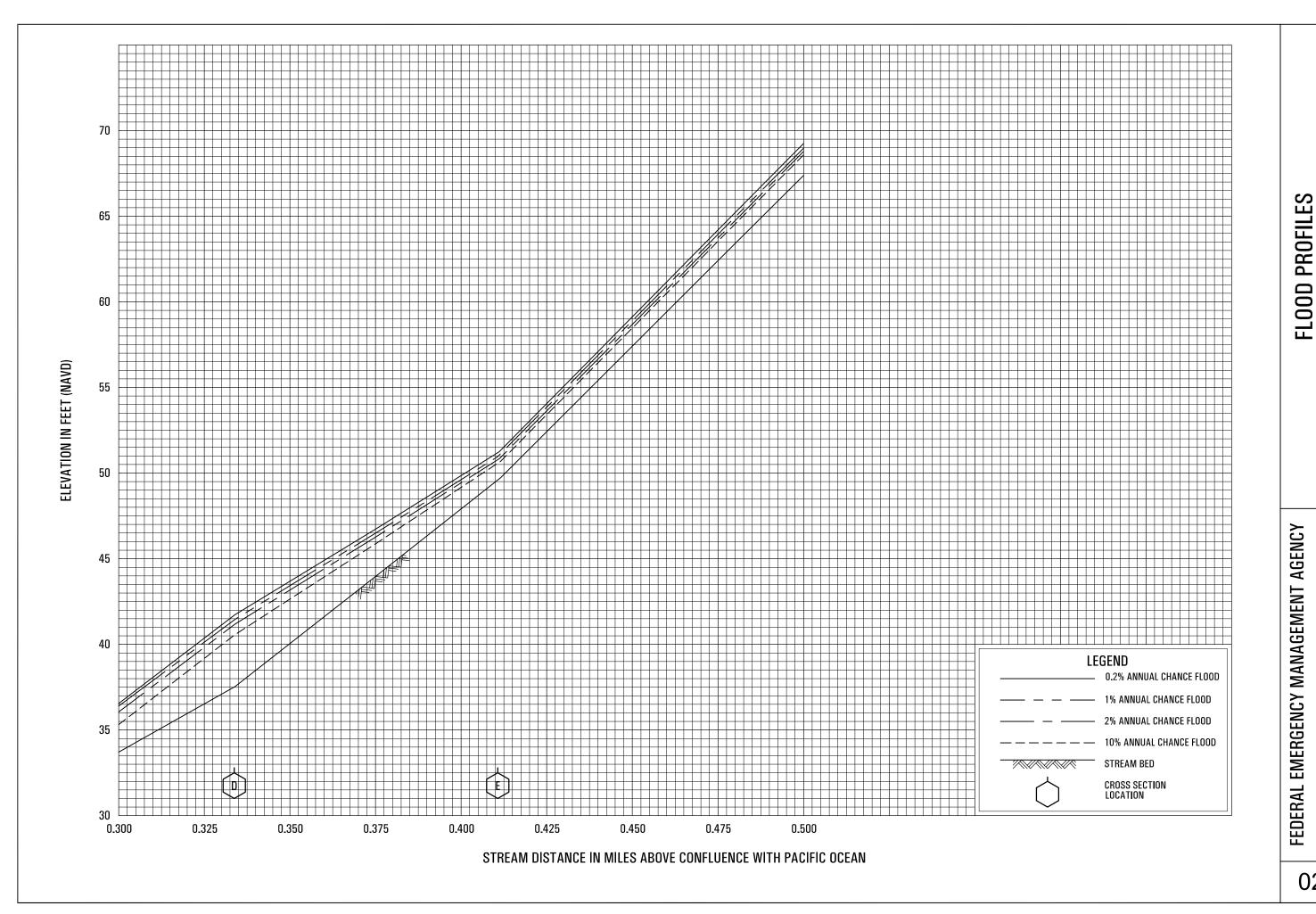


LOS ANGELES COUNTY, CA

AND INCORPORATED AREAS

**AVALON CANYON** 

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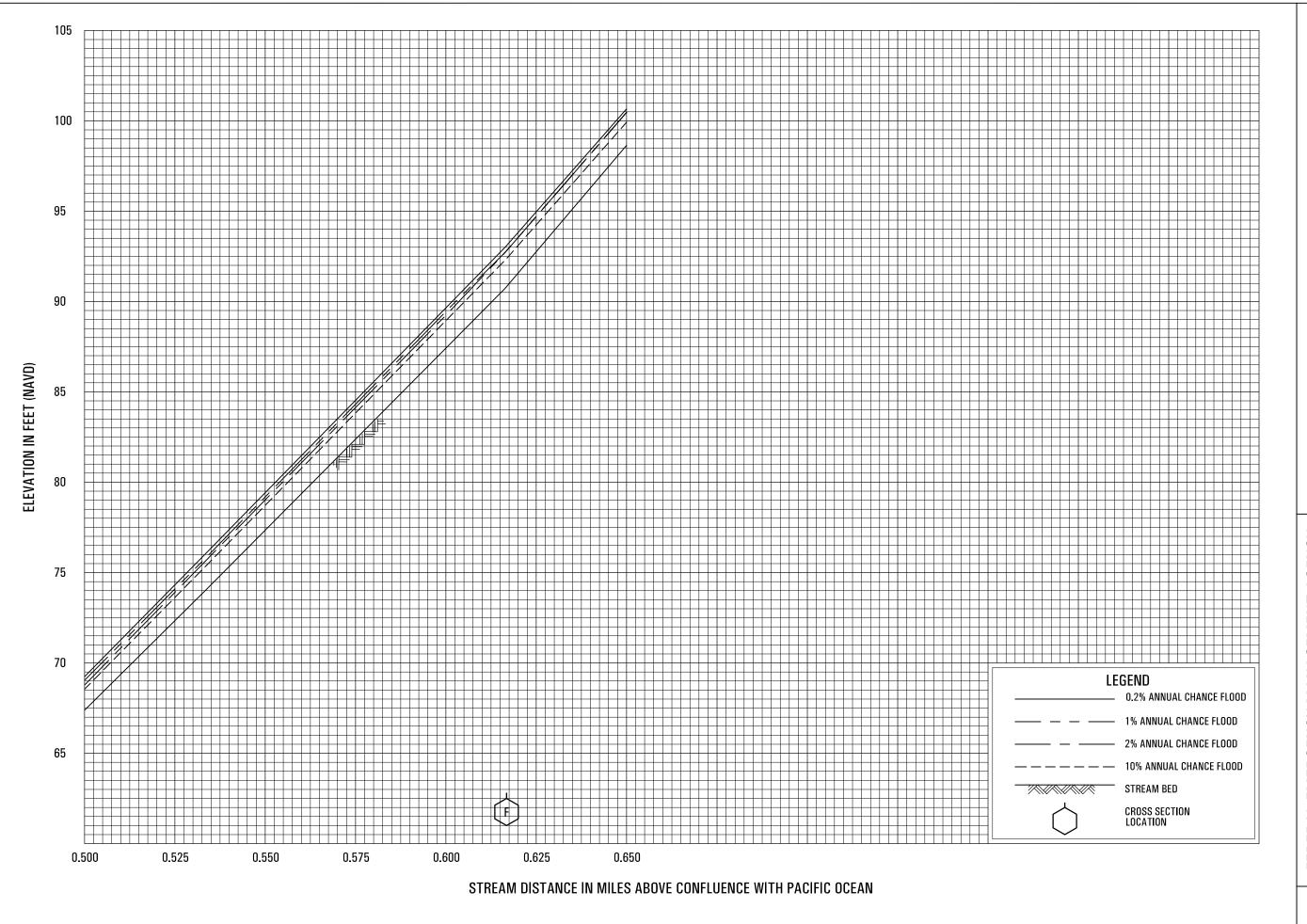


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LOS ANGELES COUNTY, CA

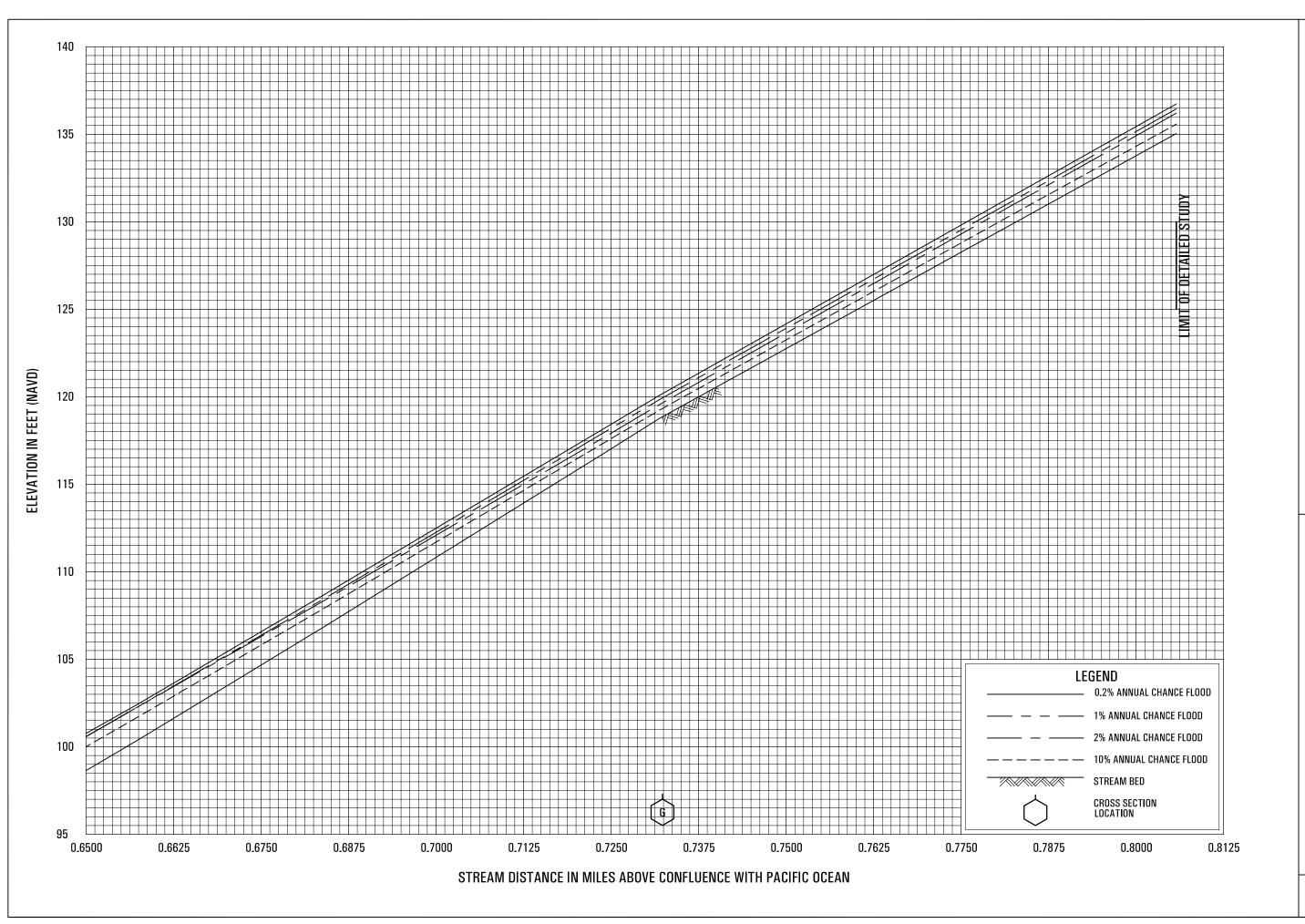
AND INCORPORATED AREAS

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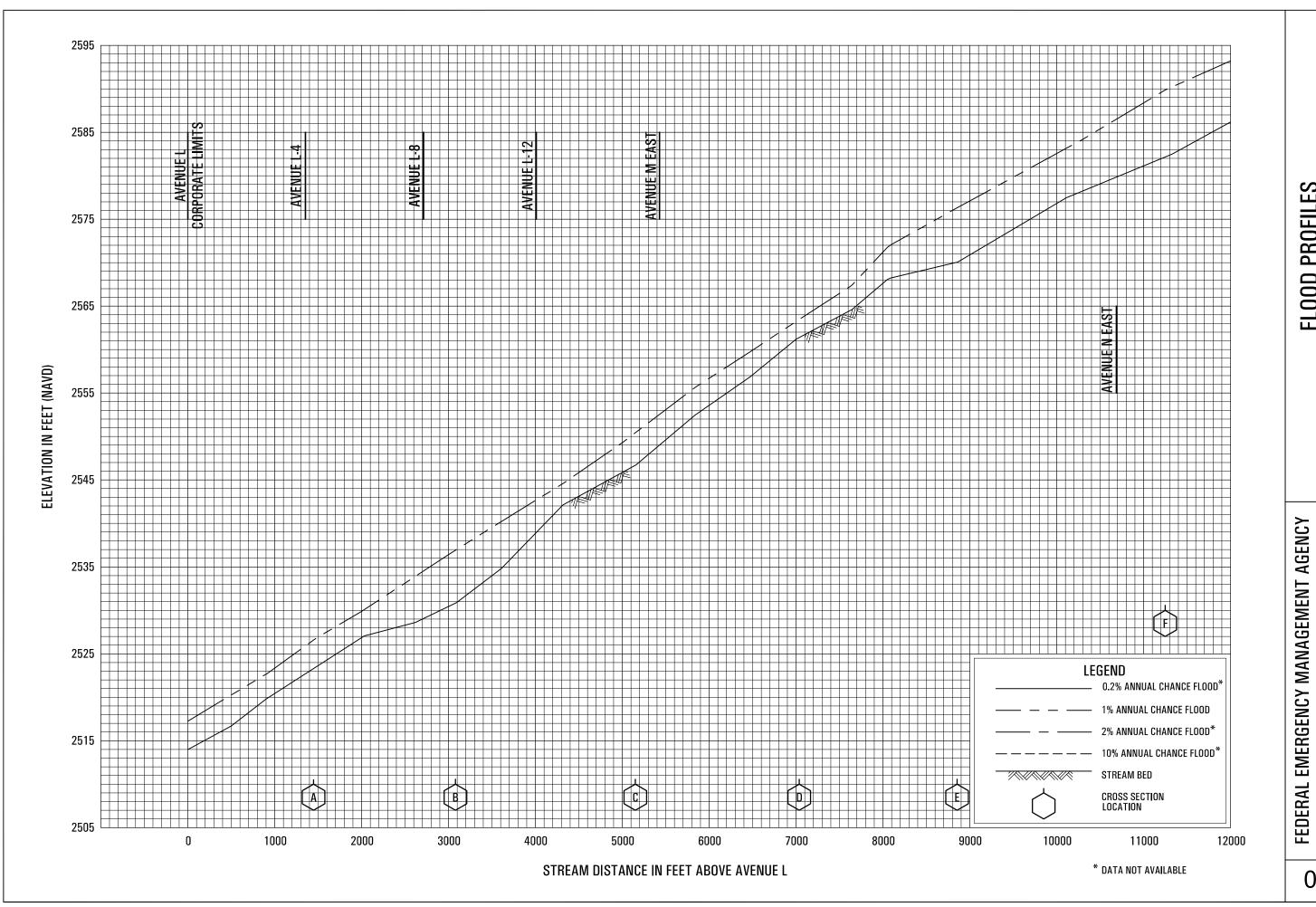
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AND INCORPORATED AREAS



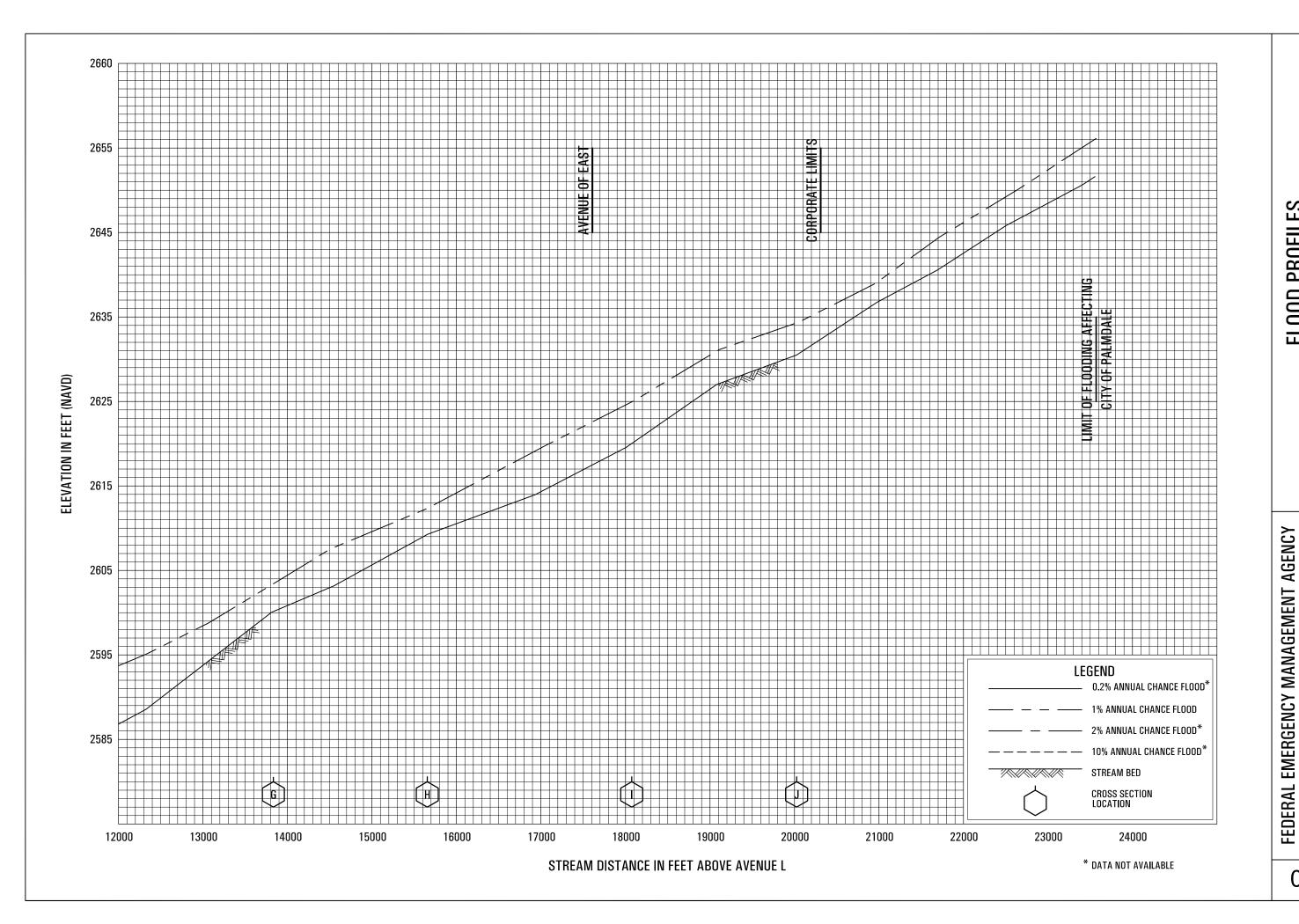
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AND INCORPORATED AREAS



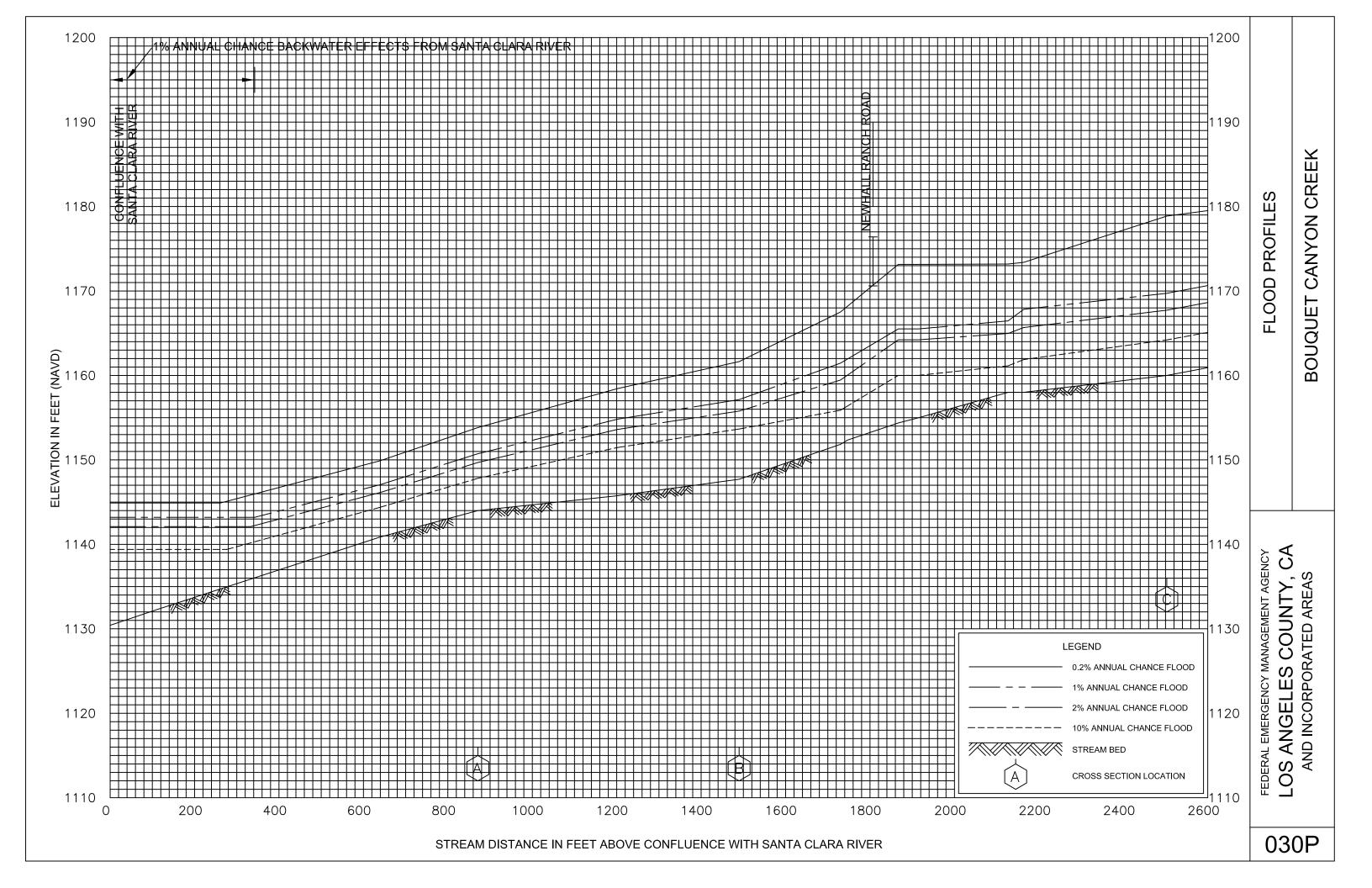
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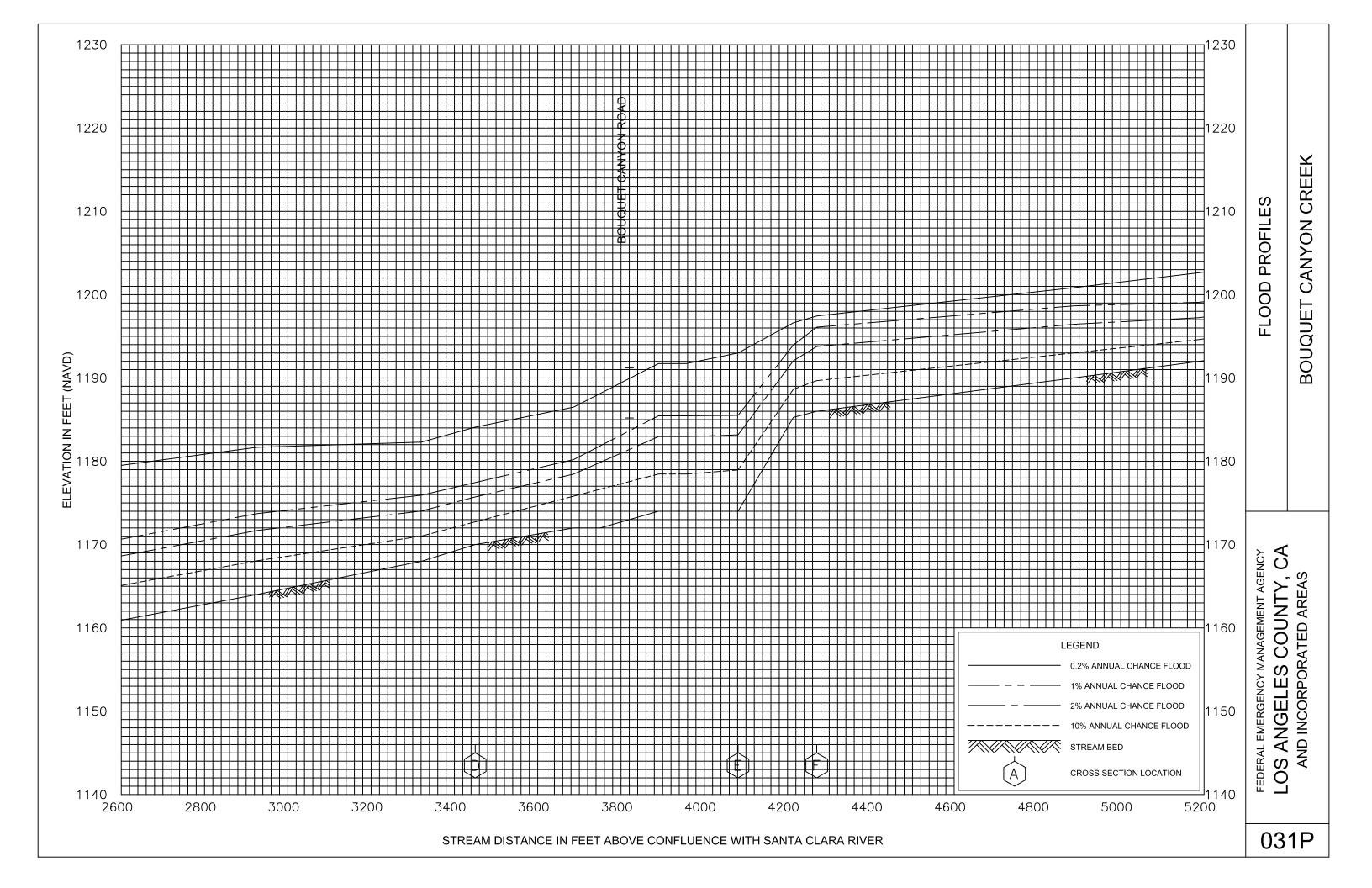
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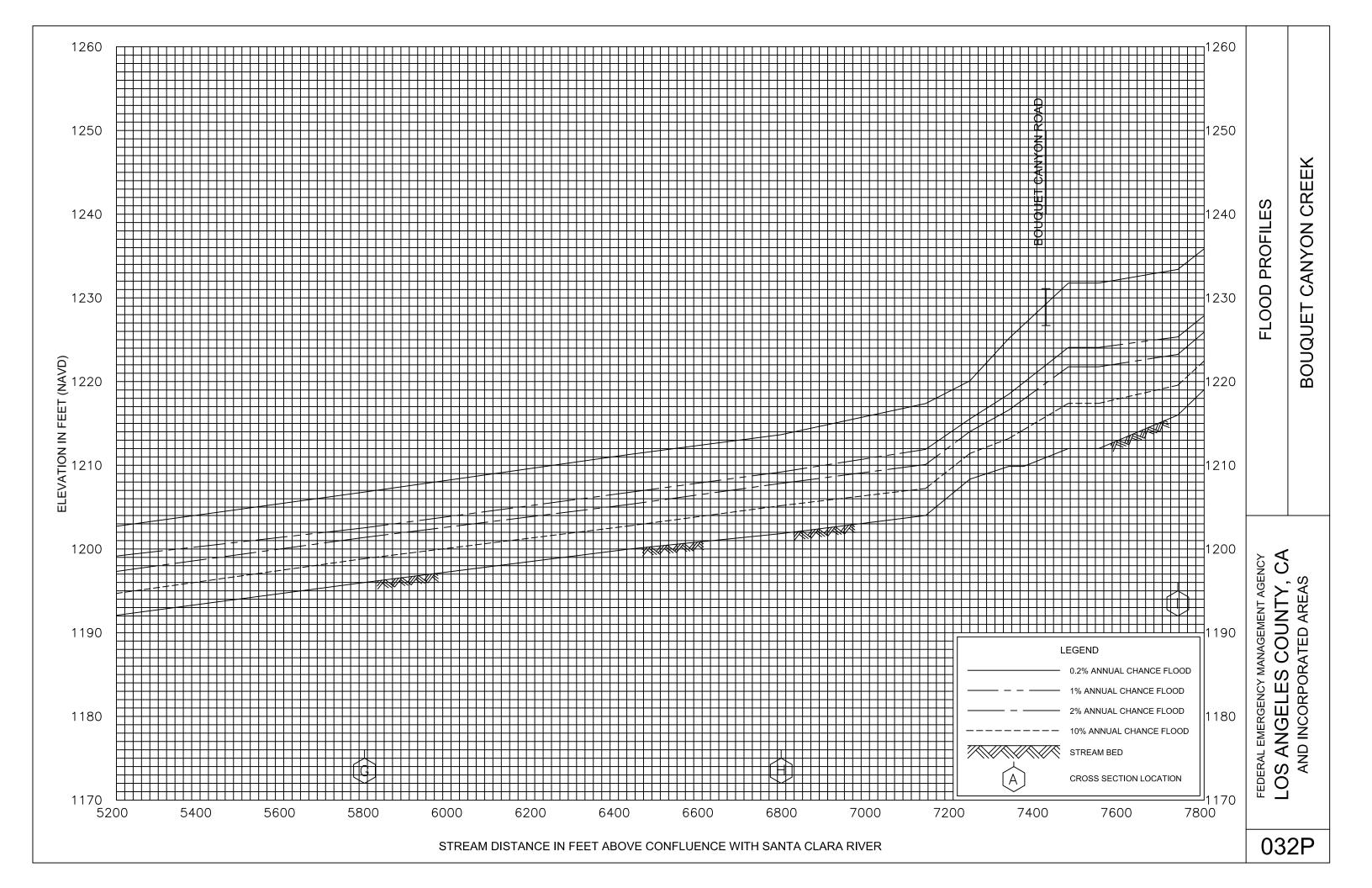


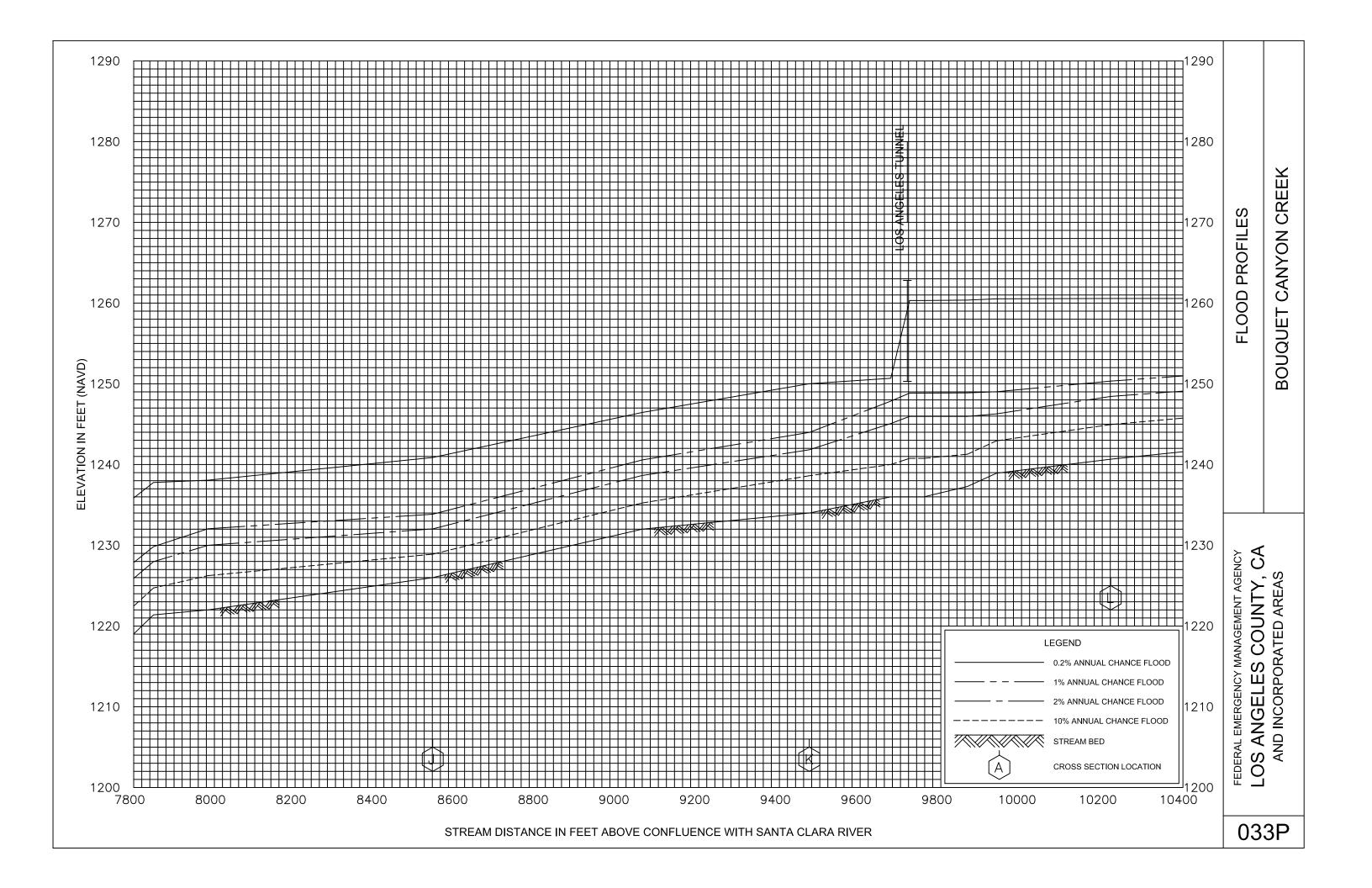
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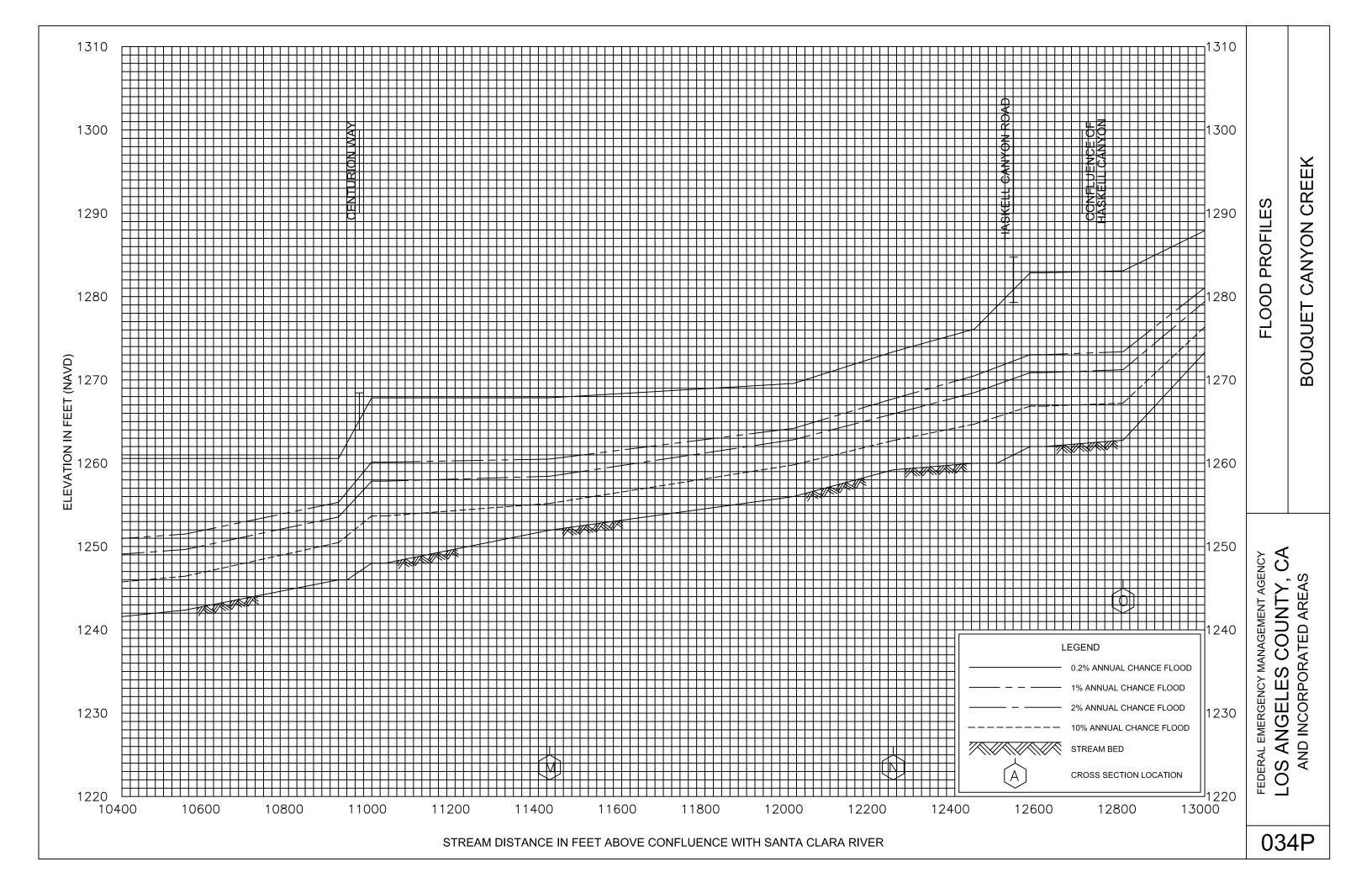
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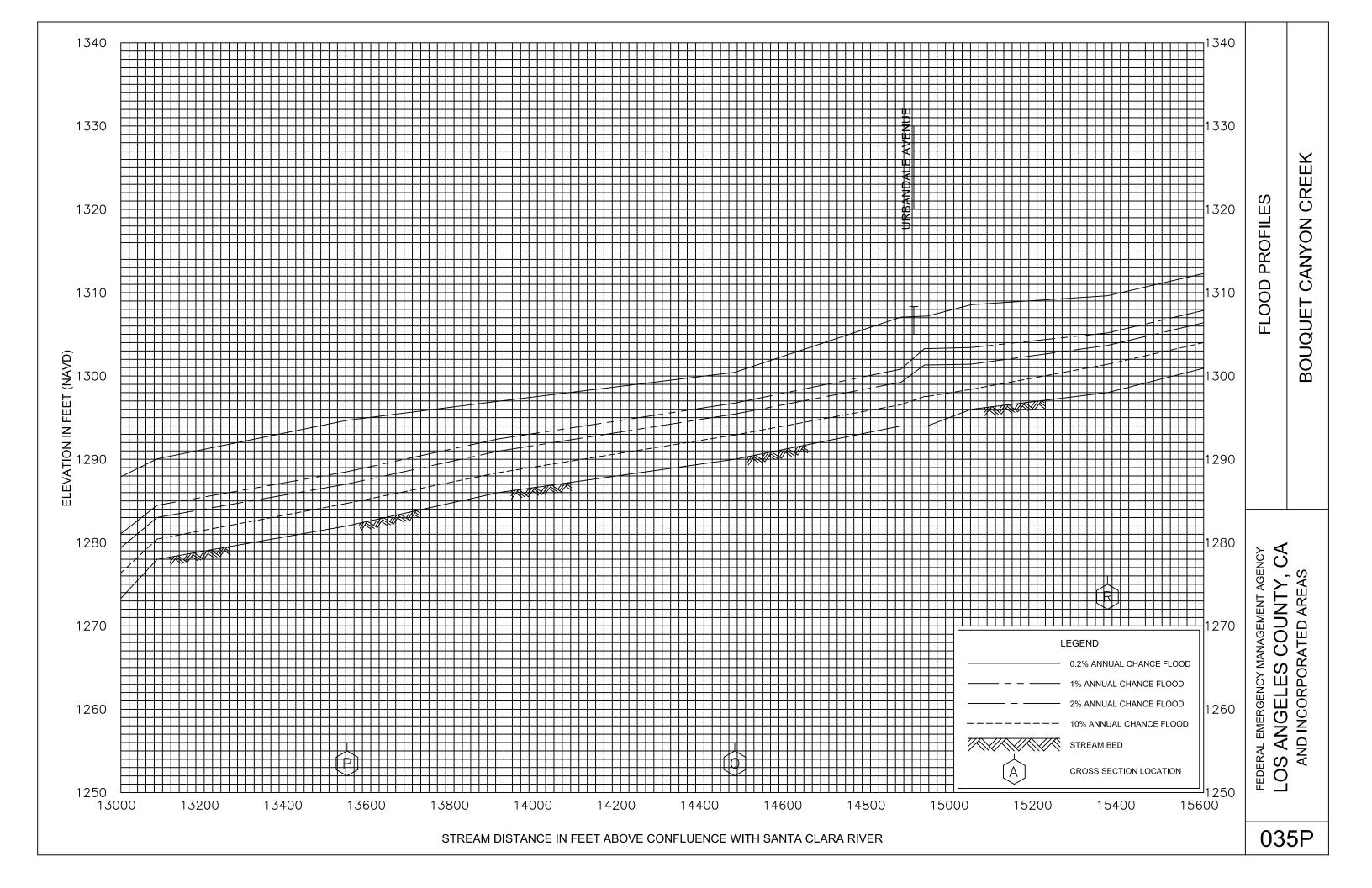


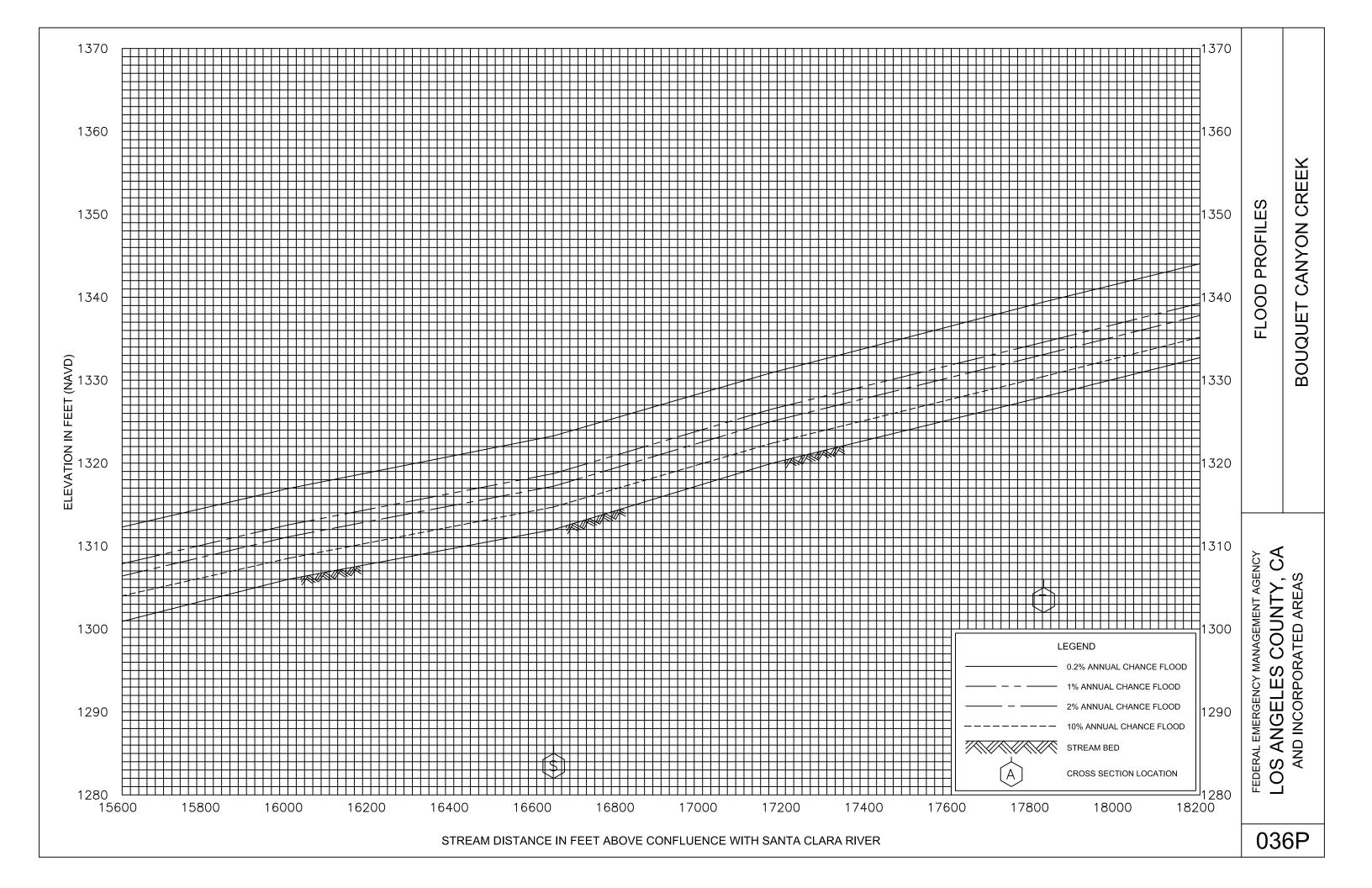


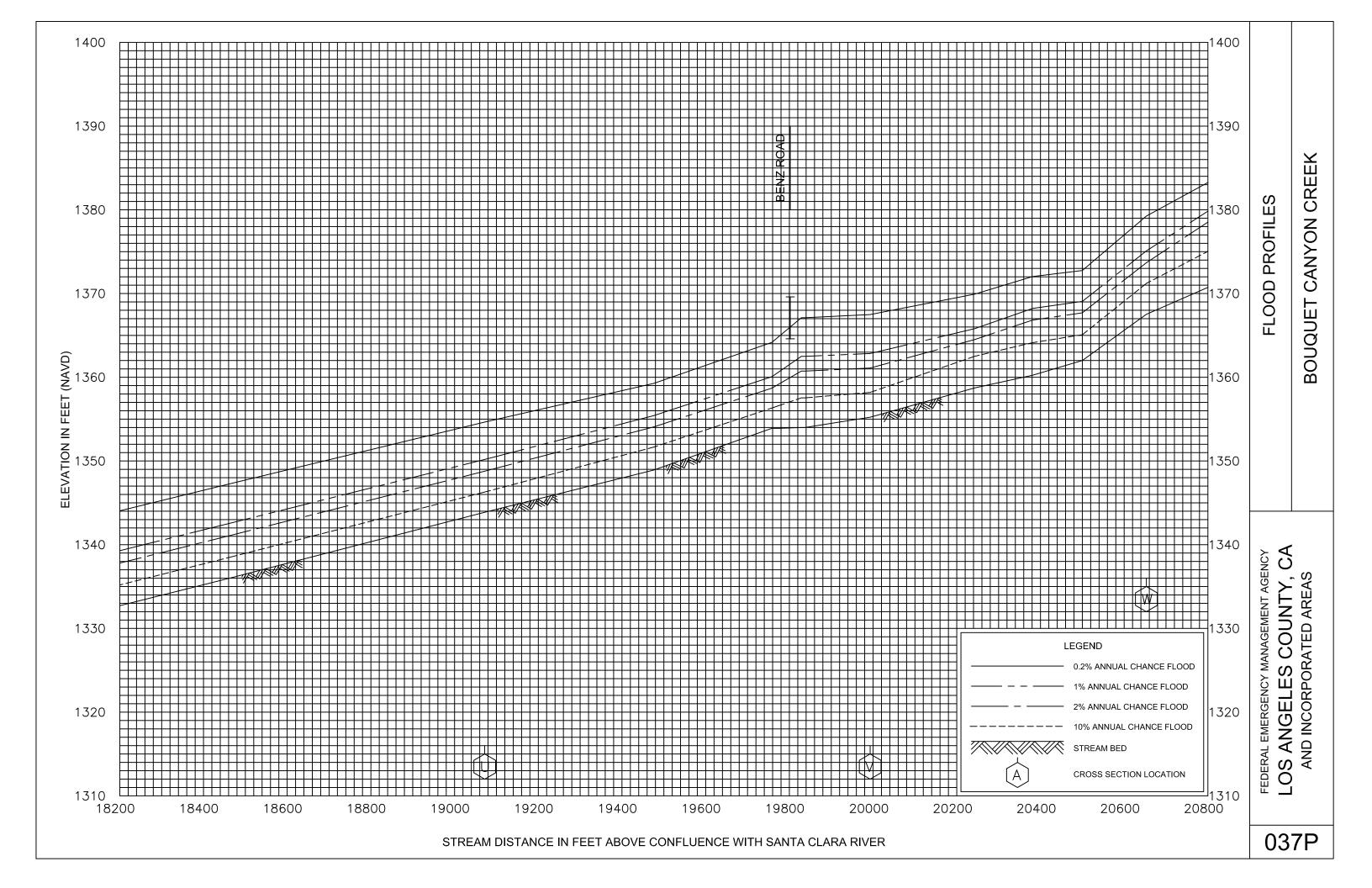


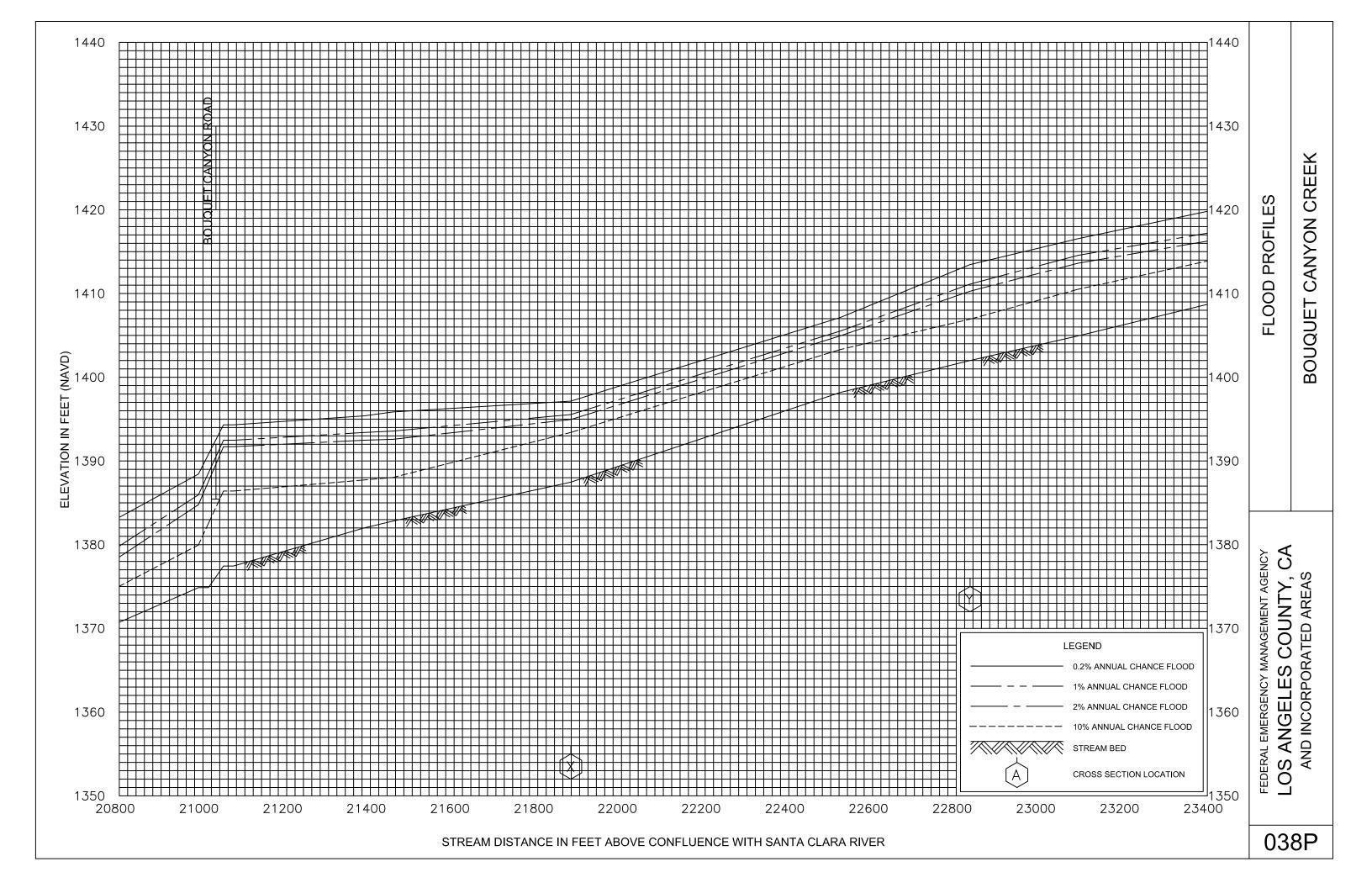


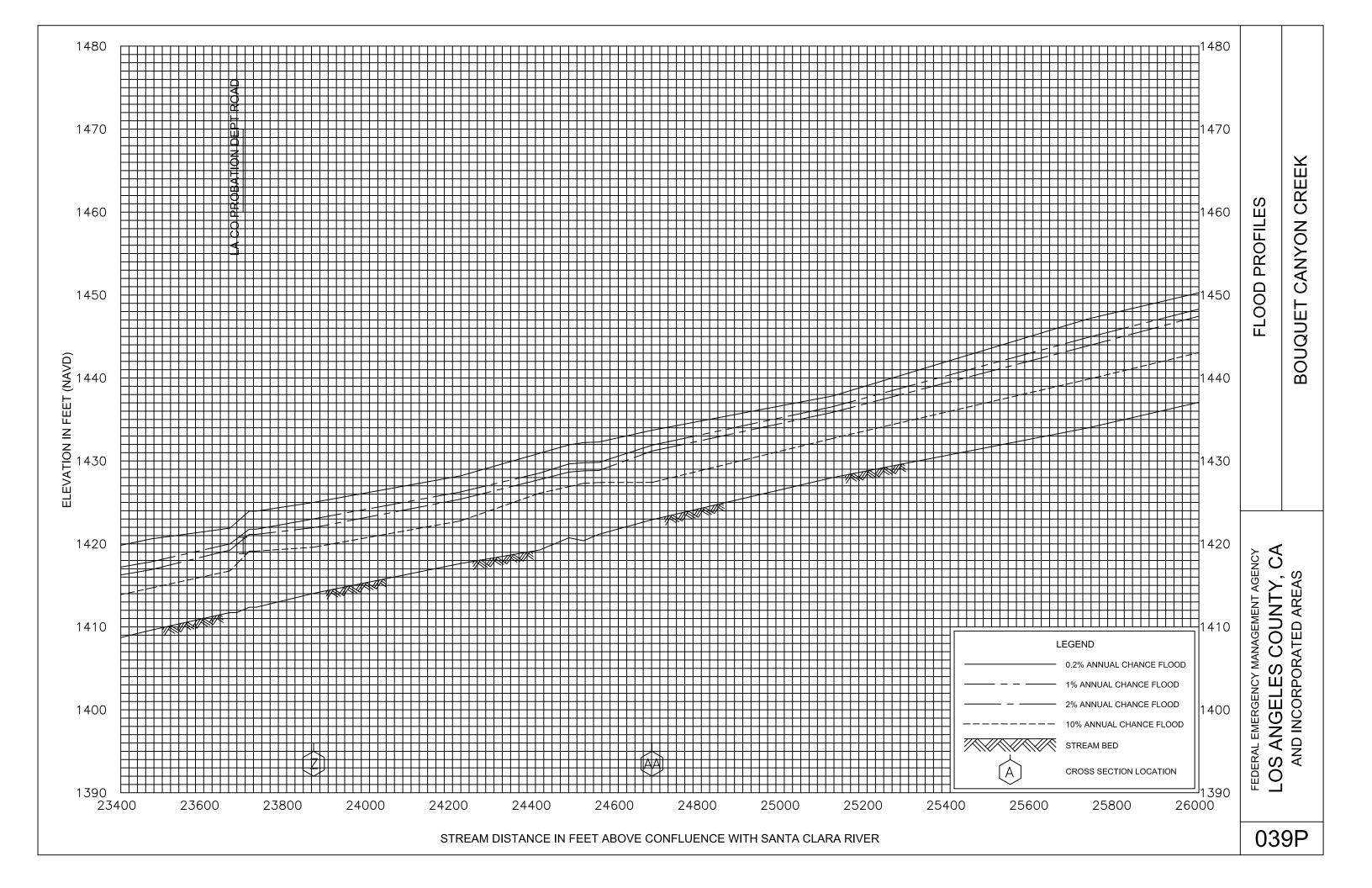


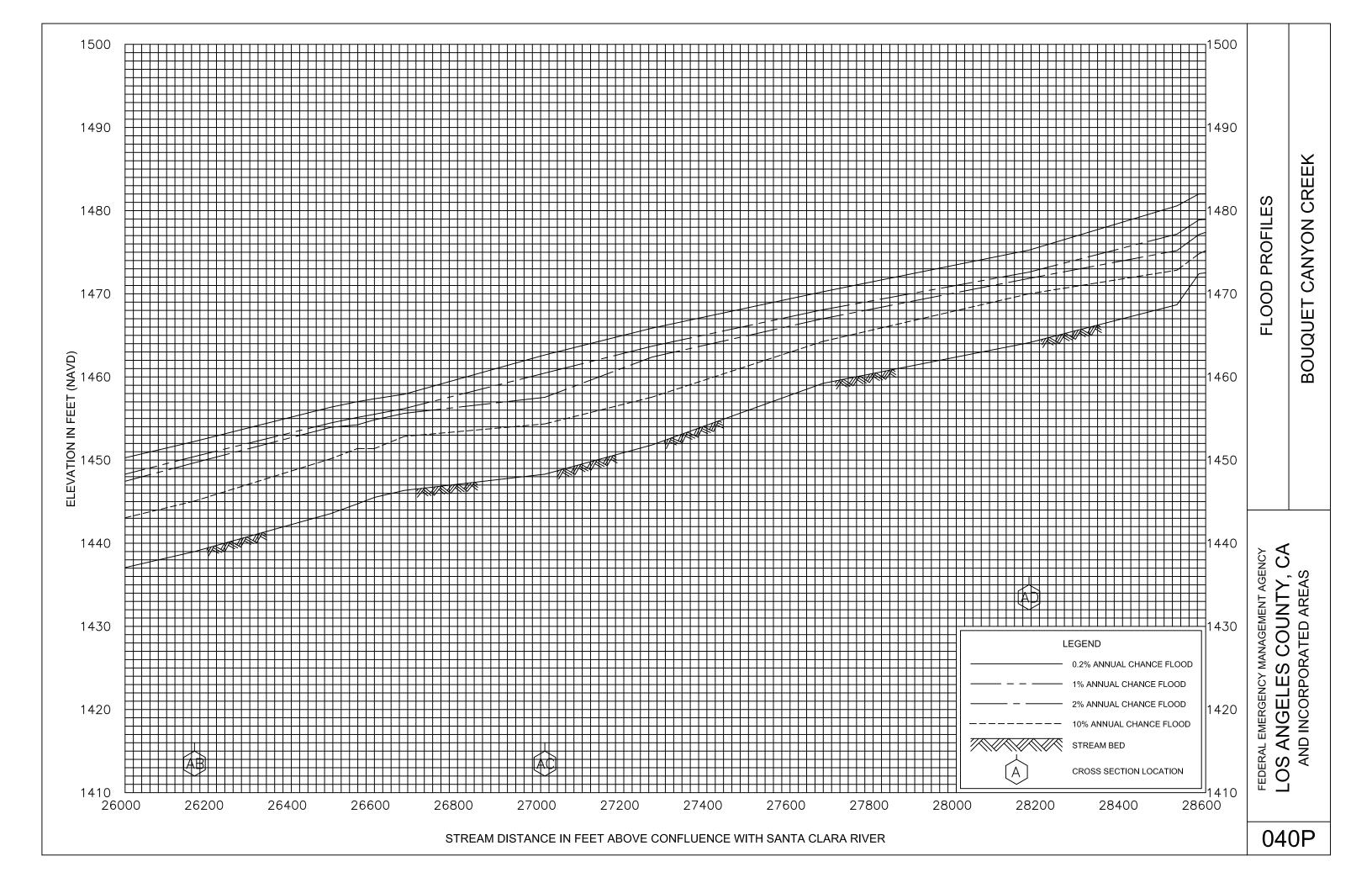


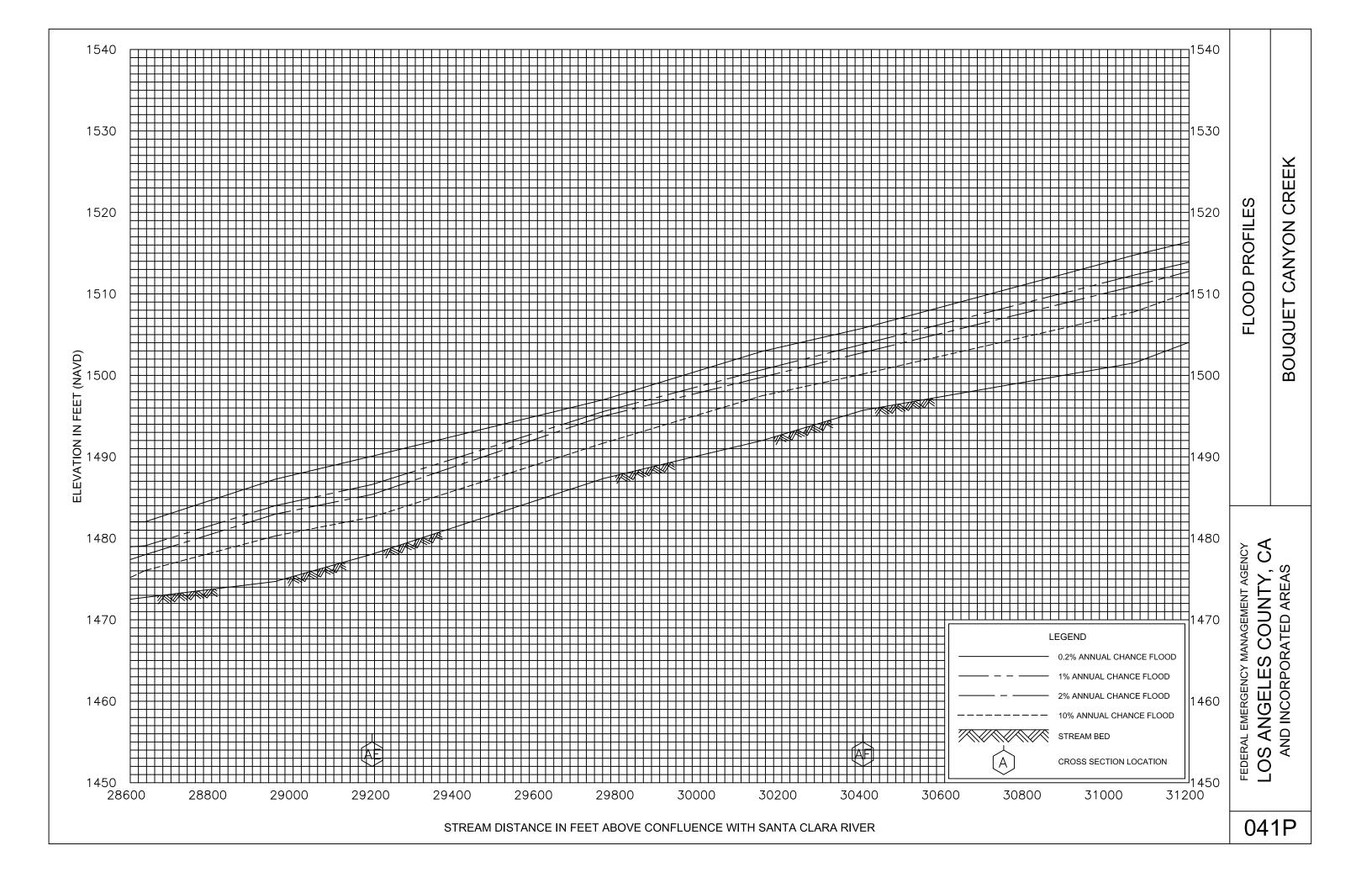


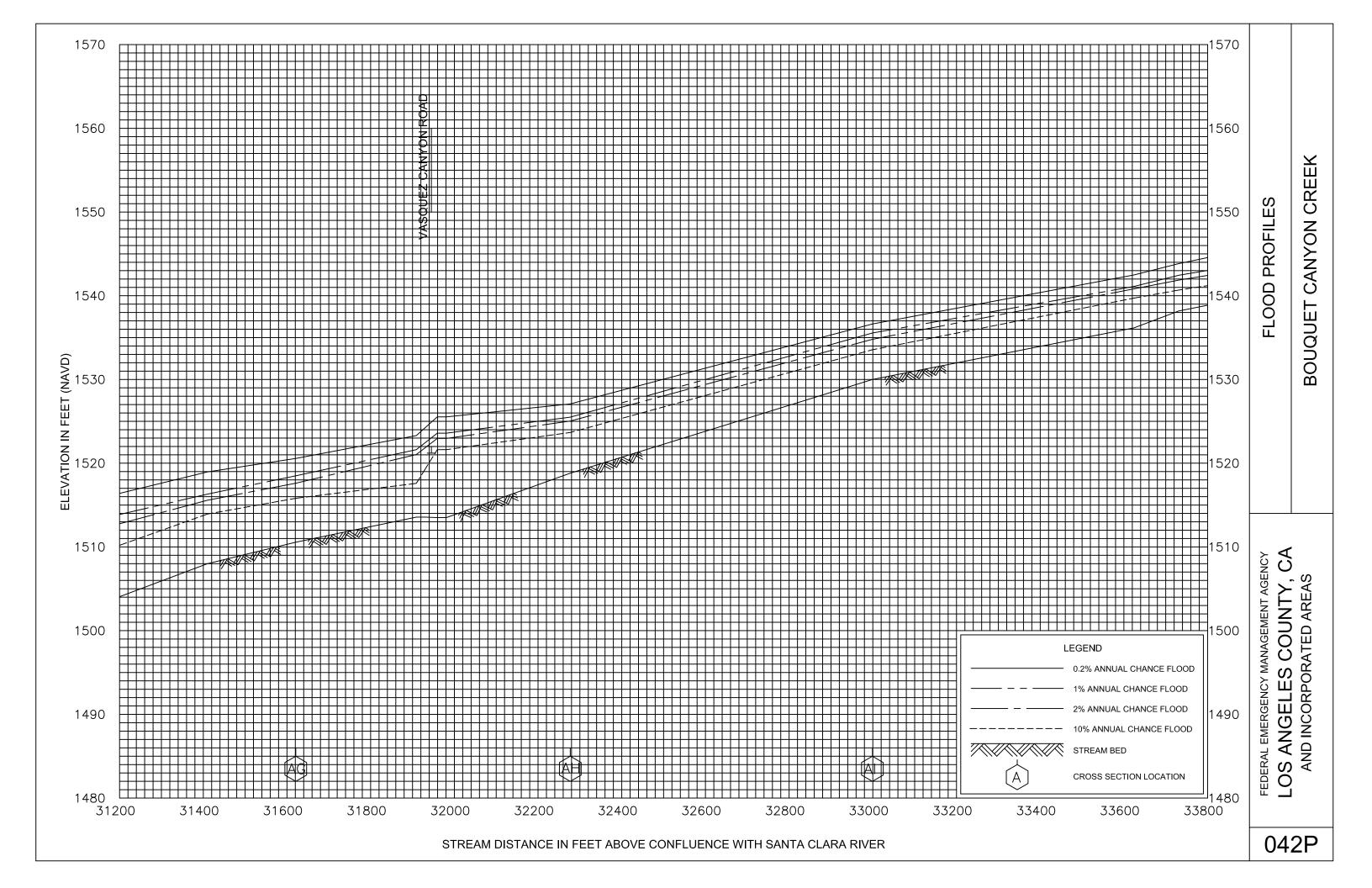


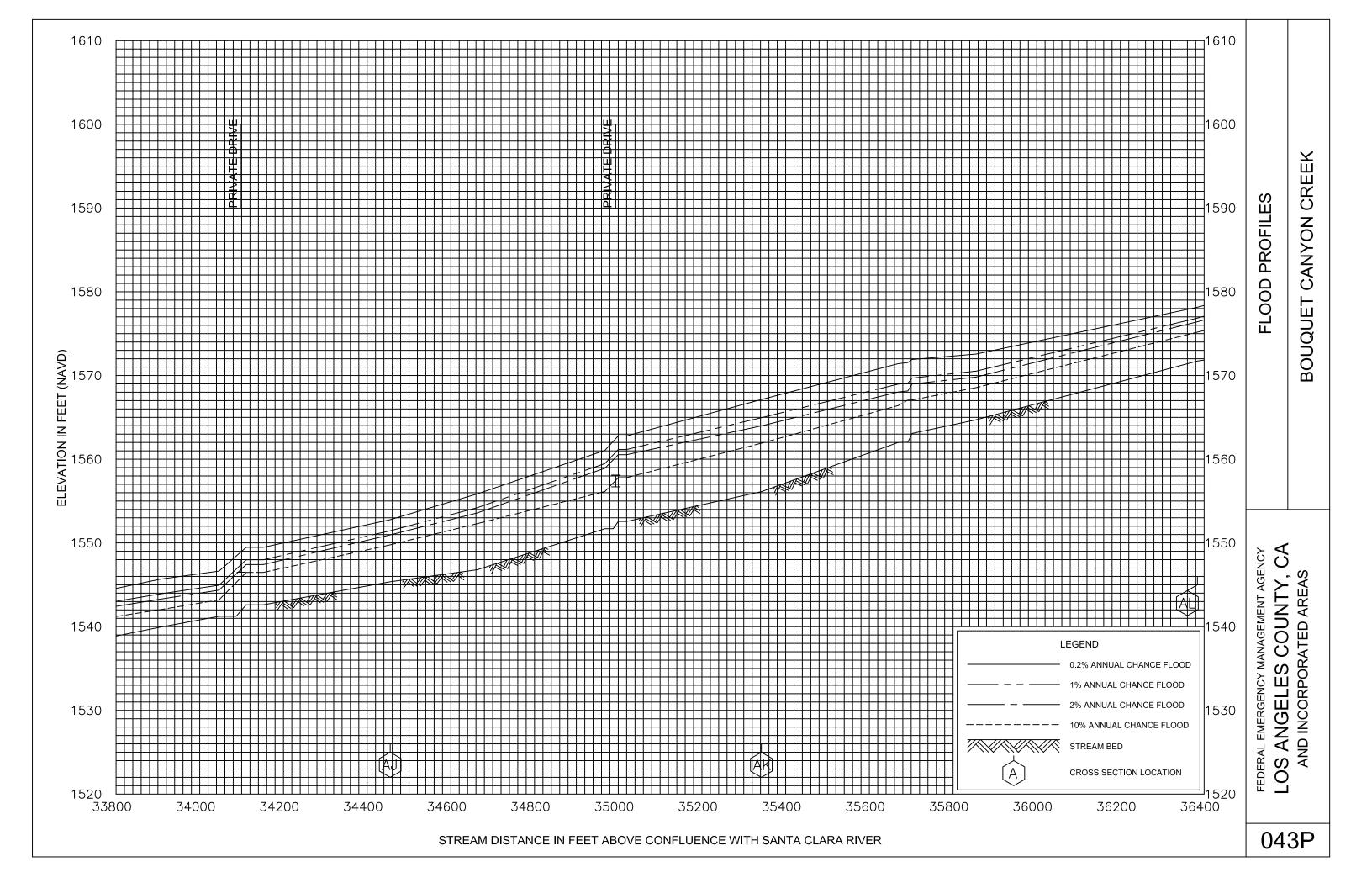


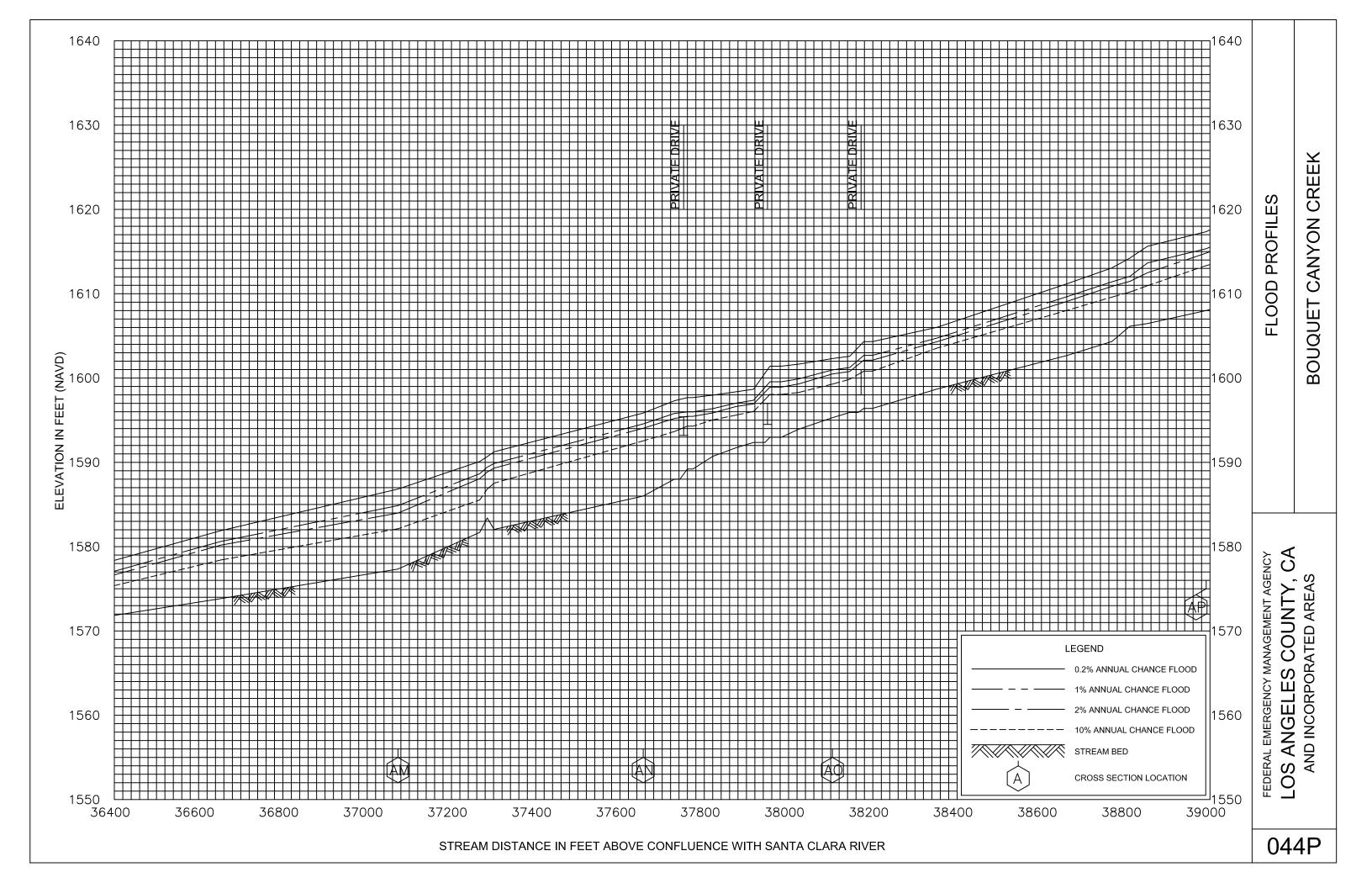


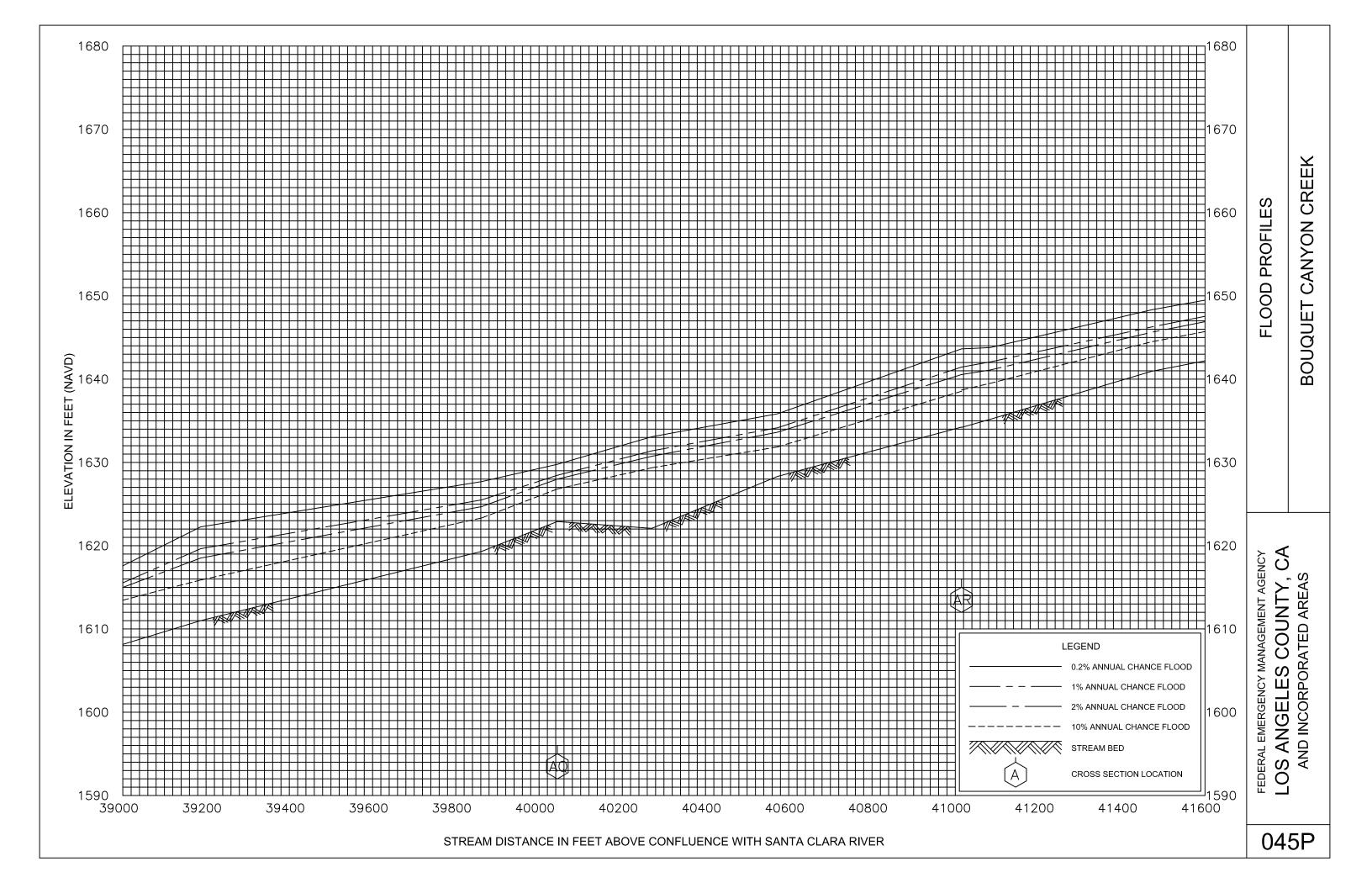


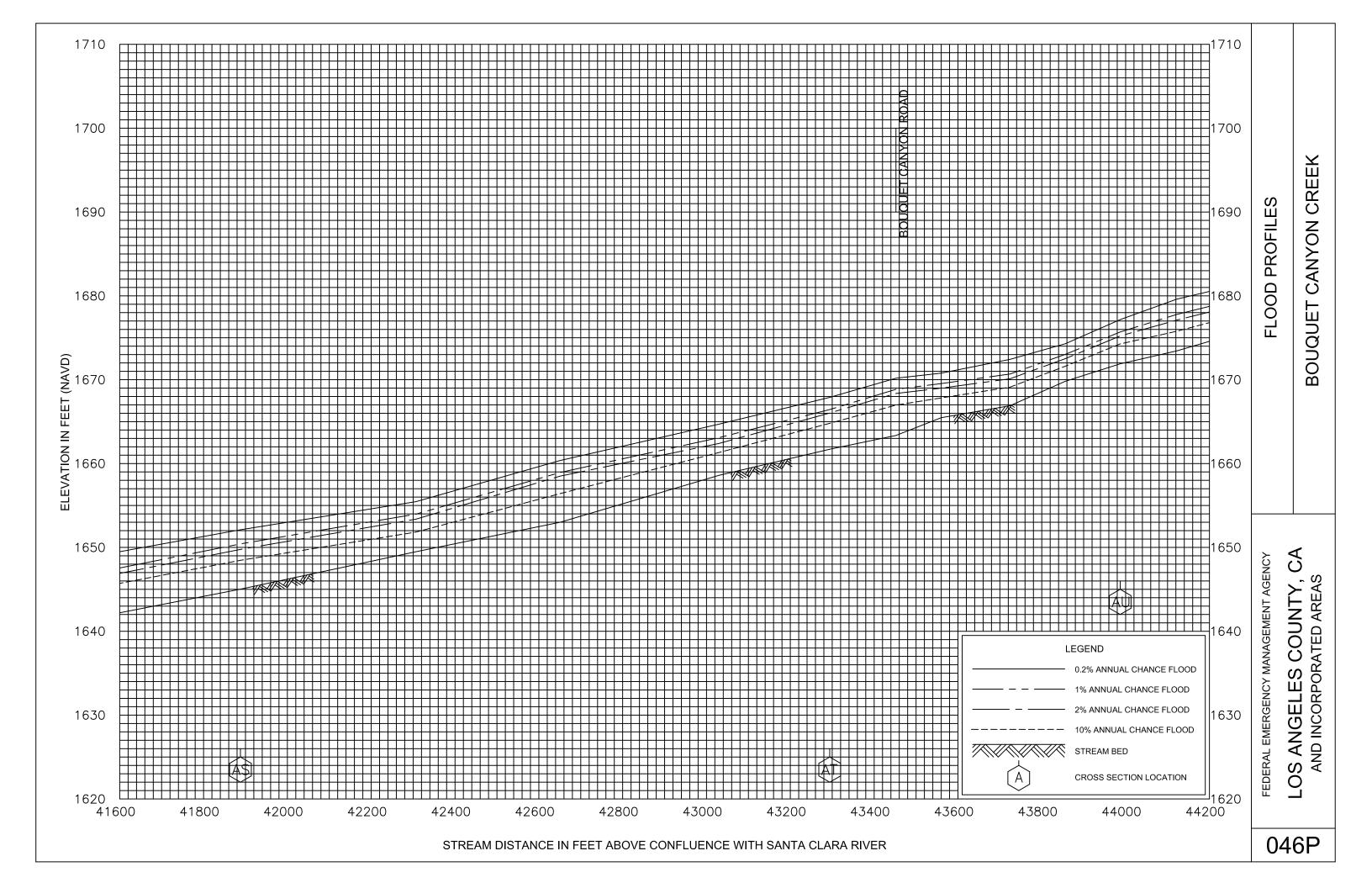


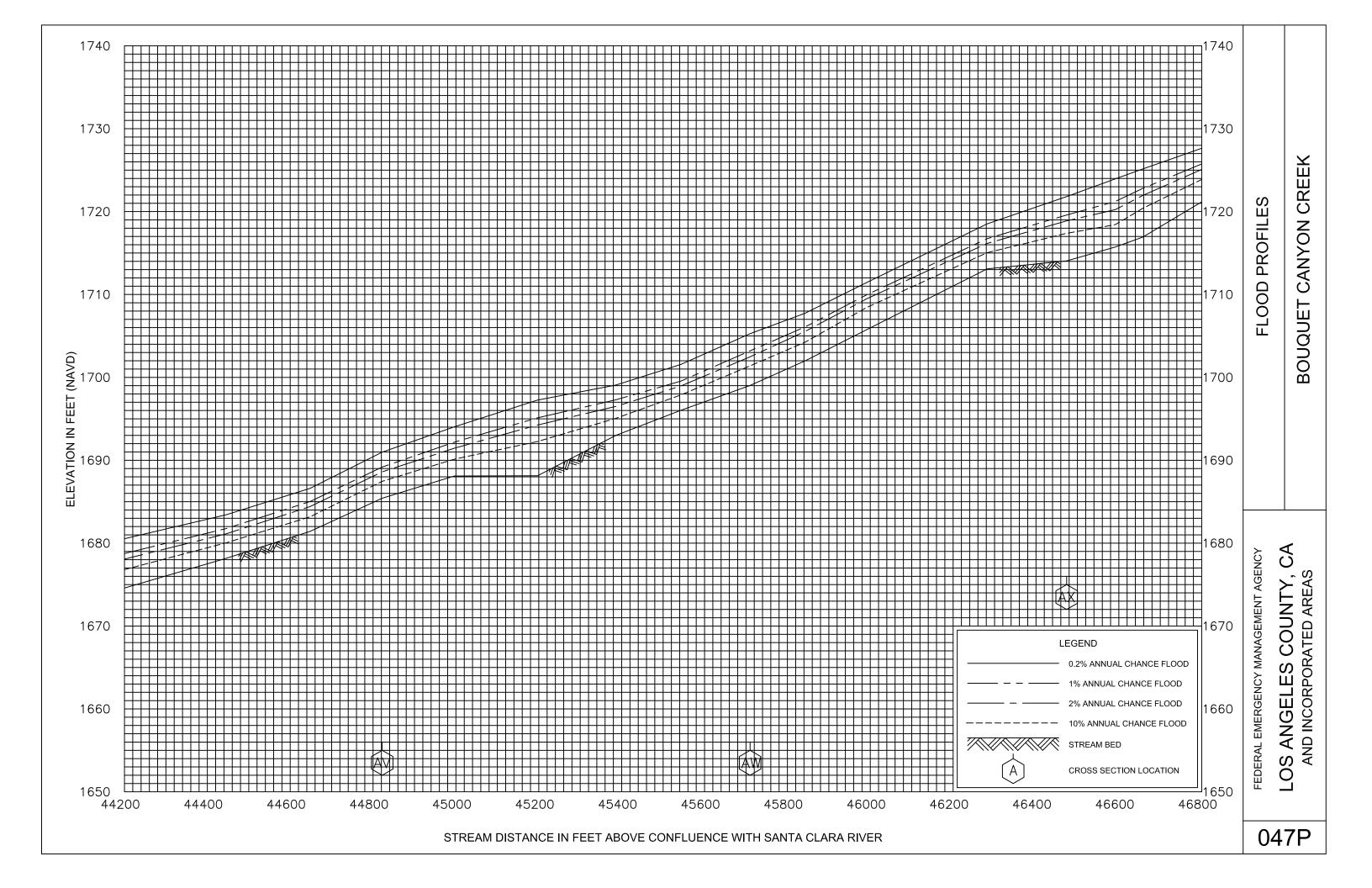


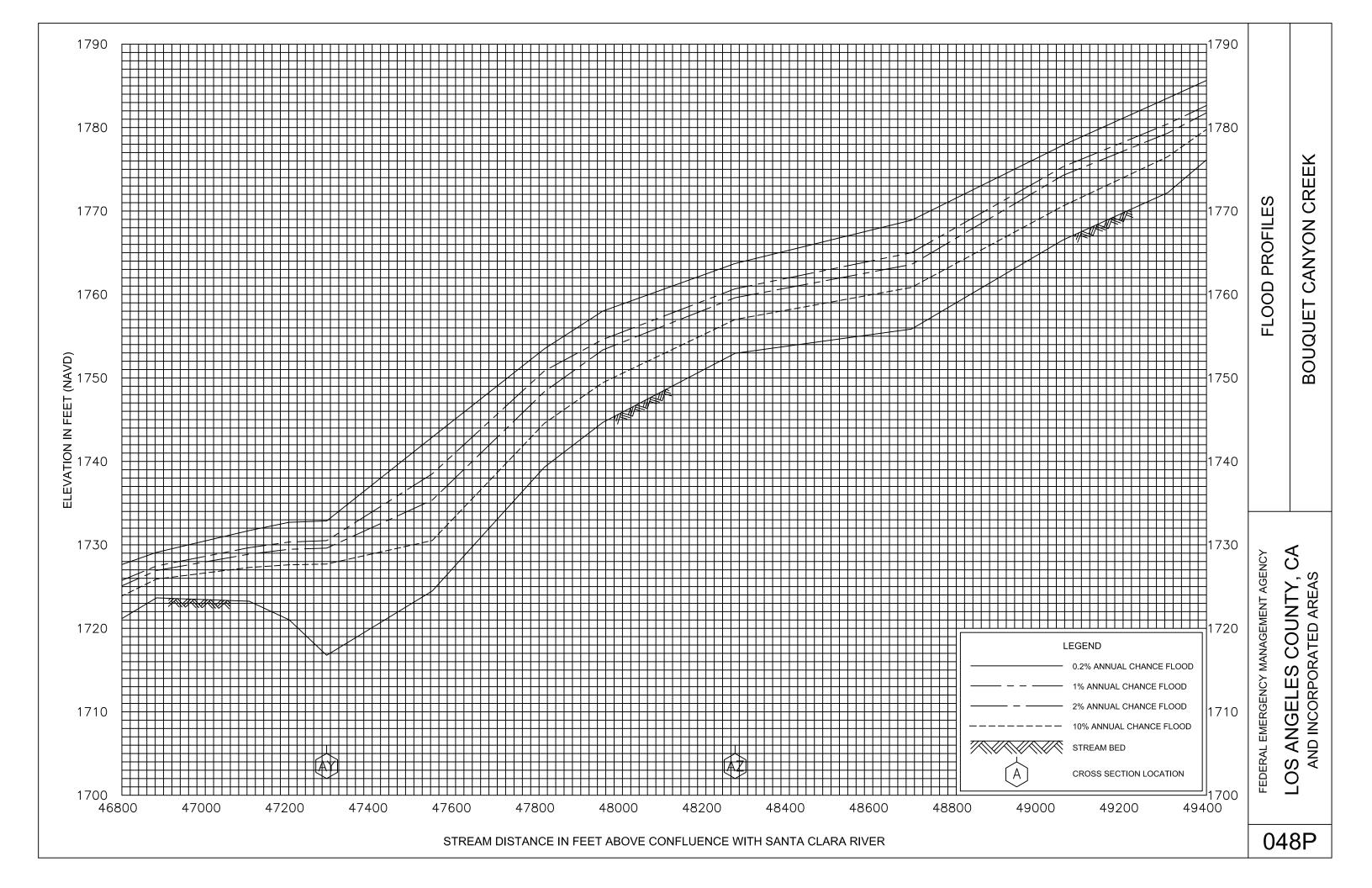


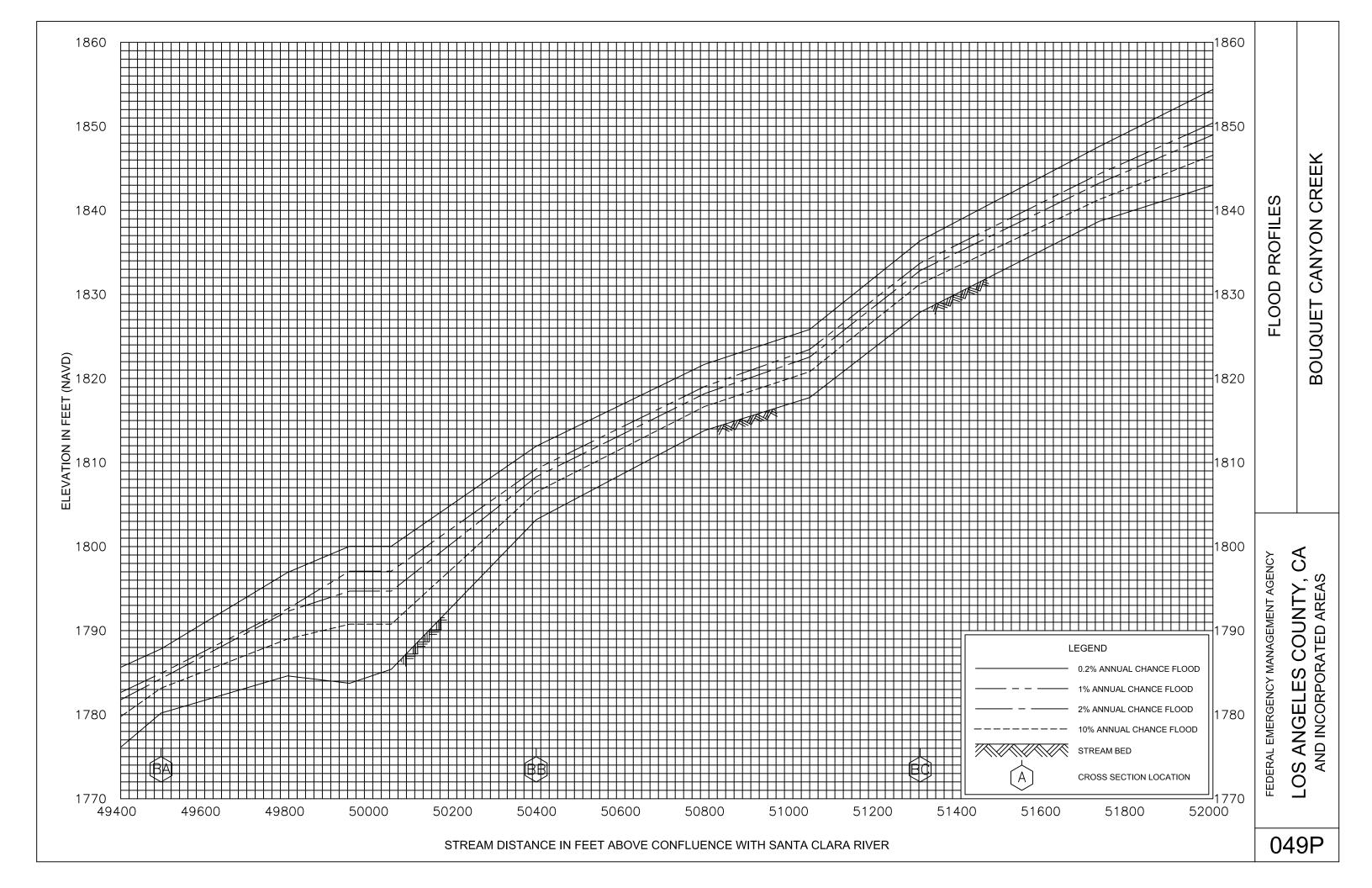


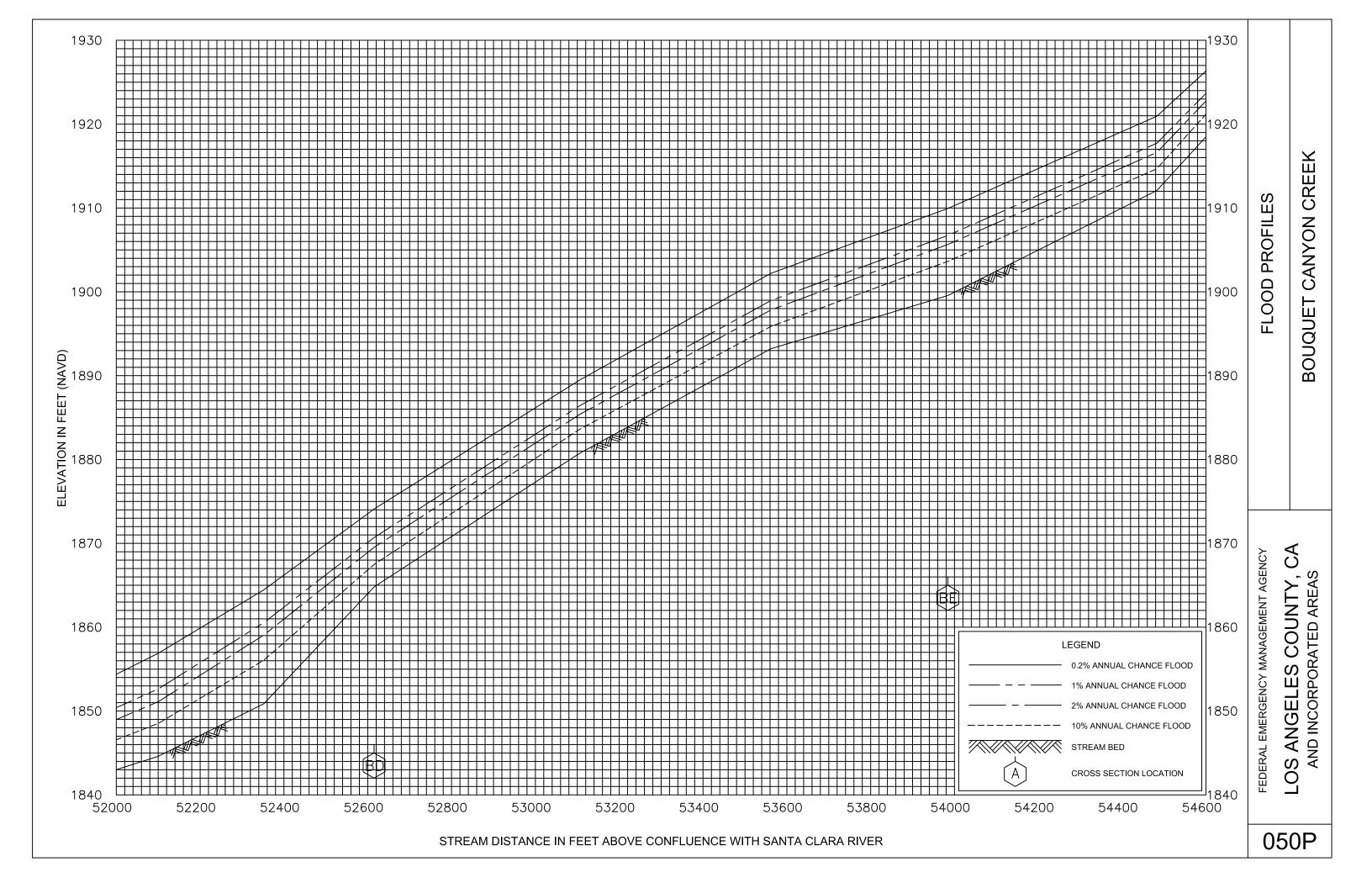


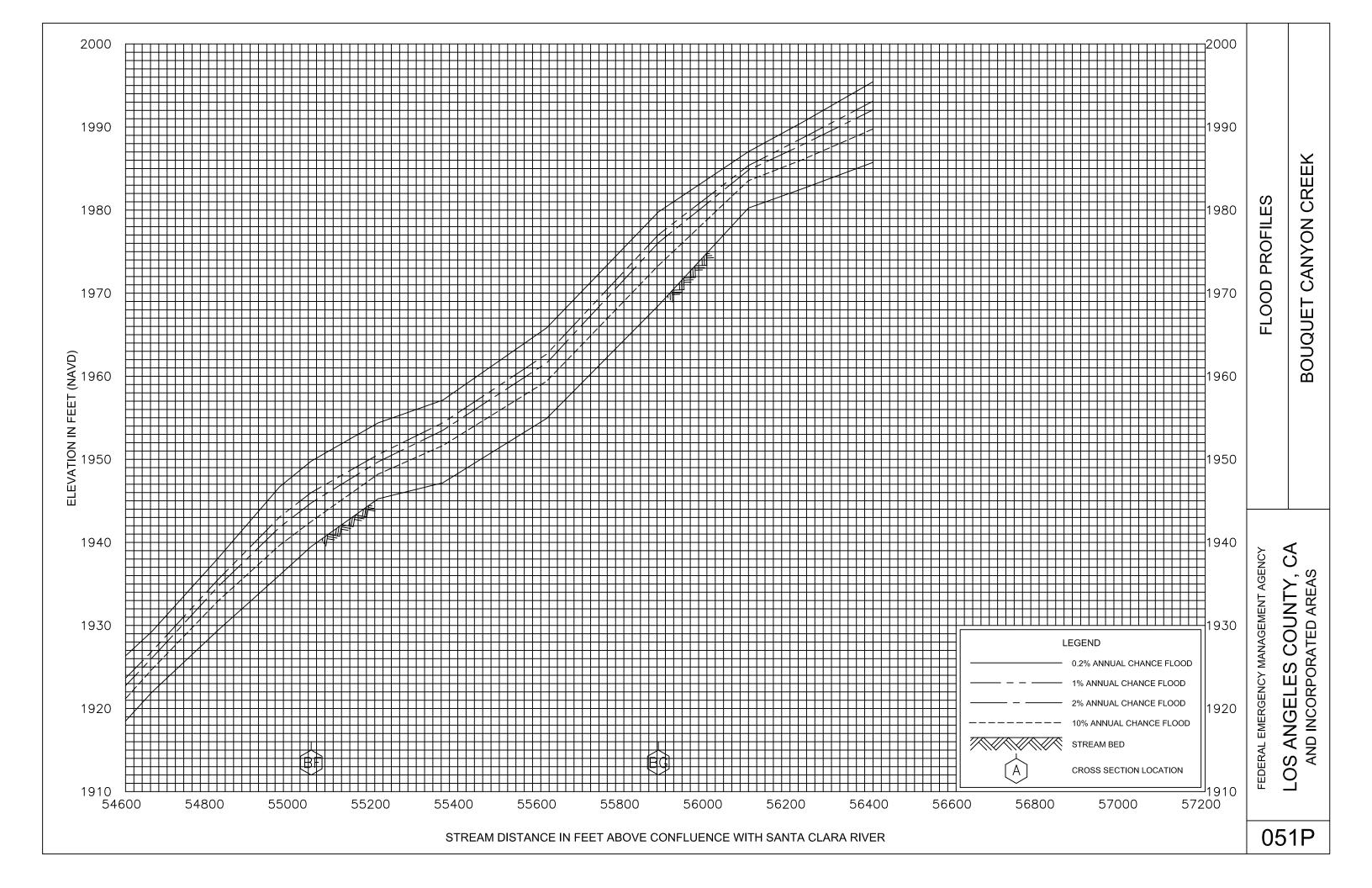


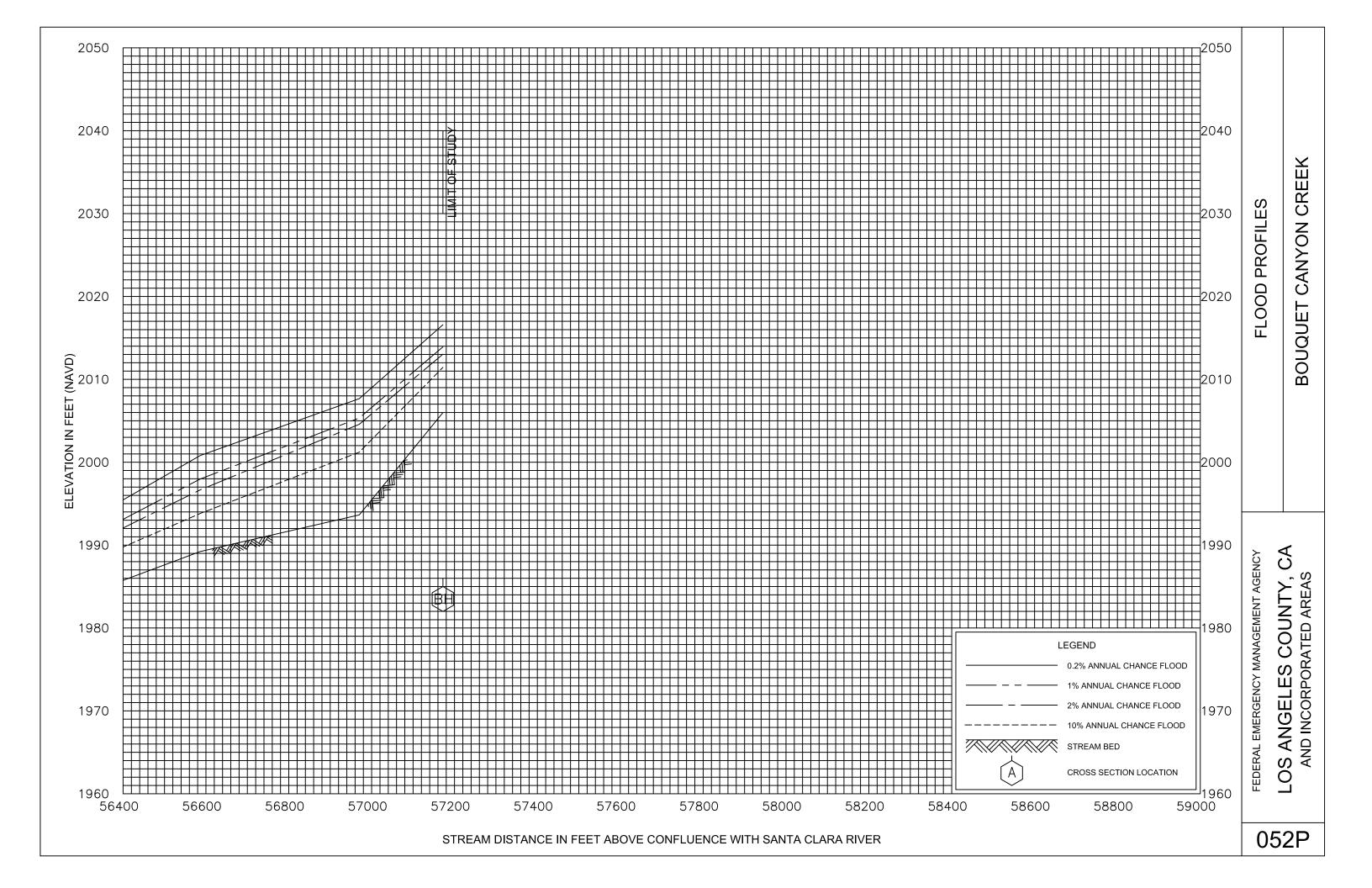


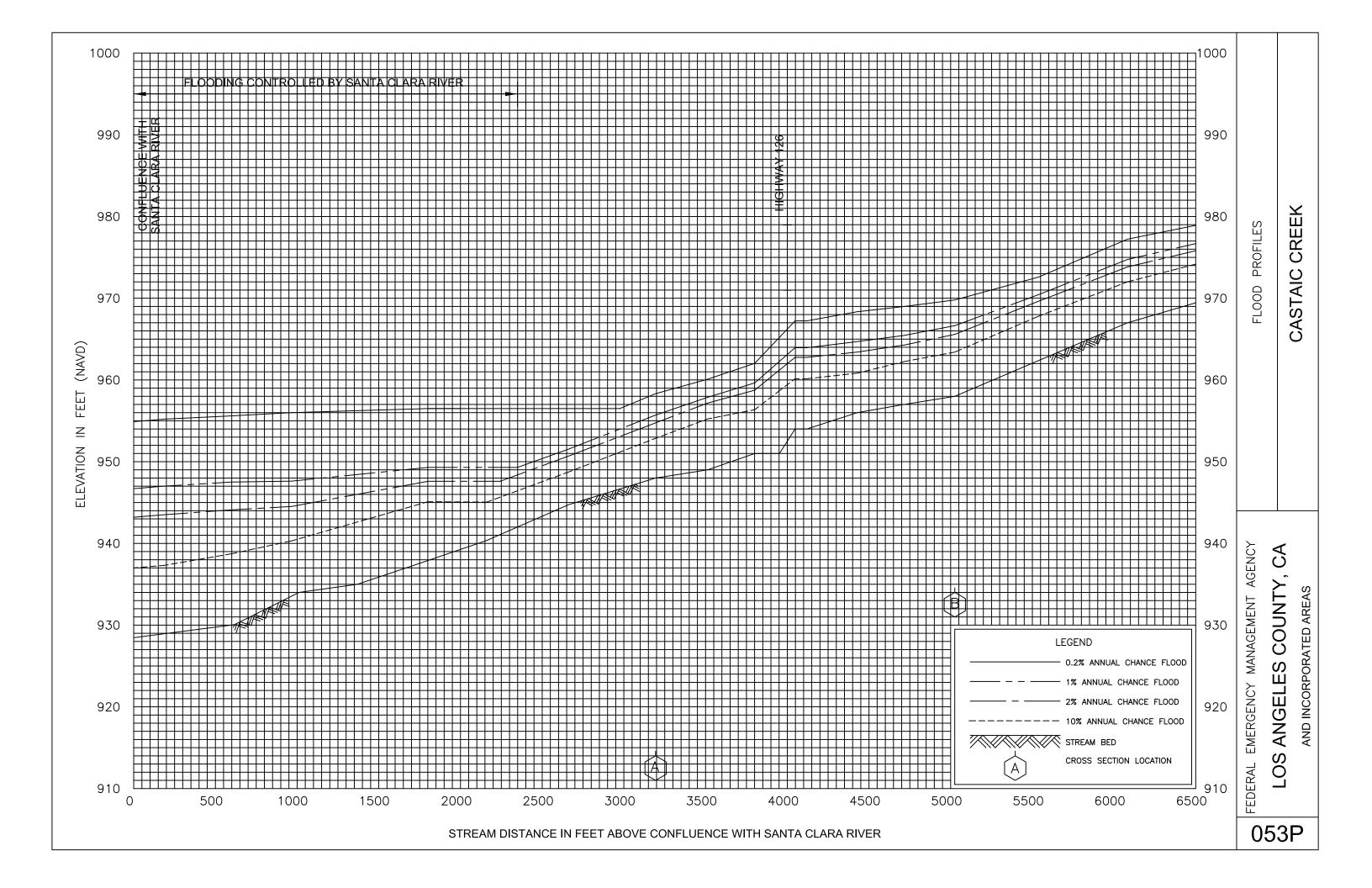


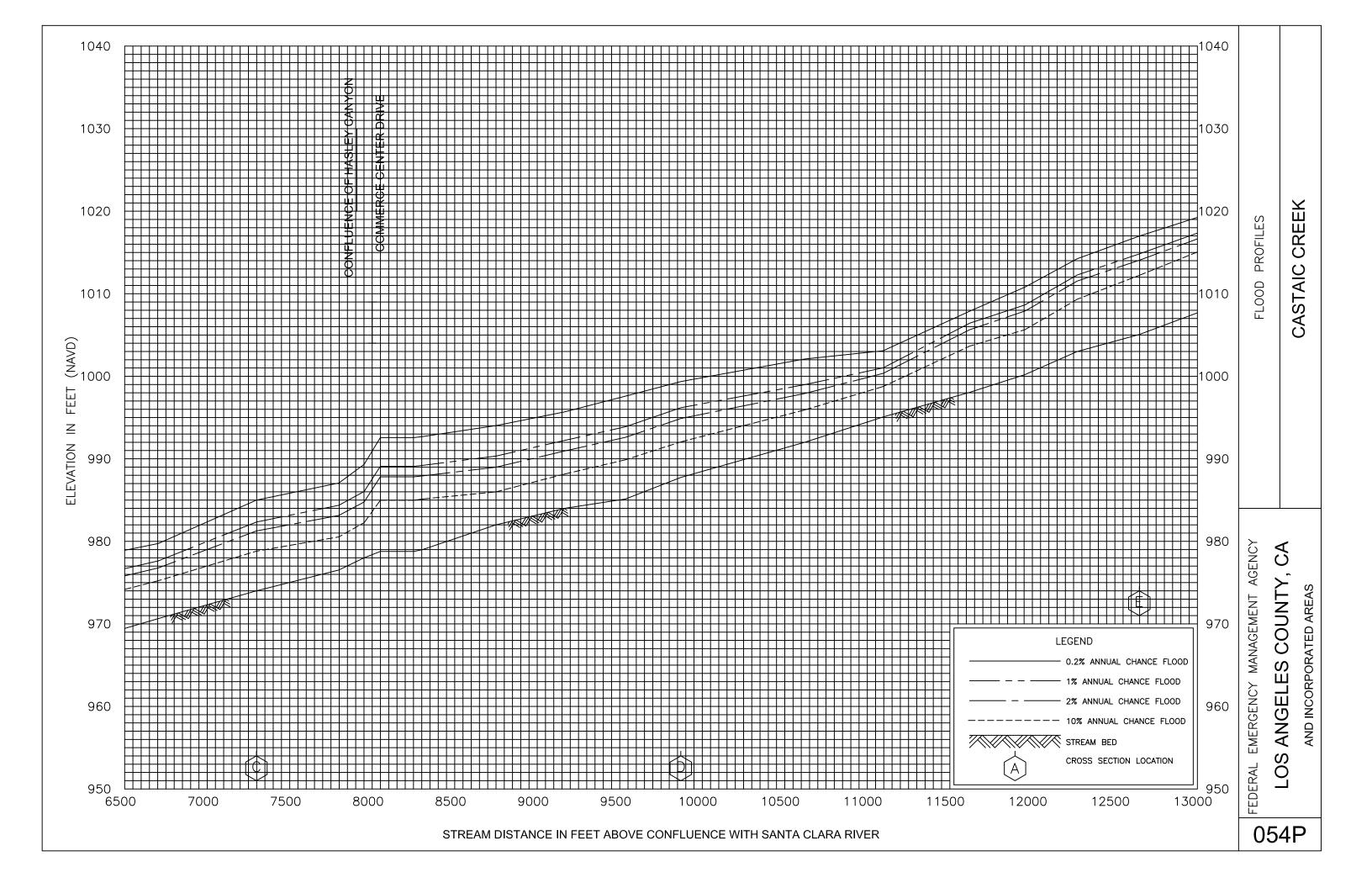


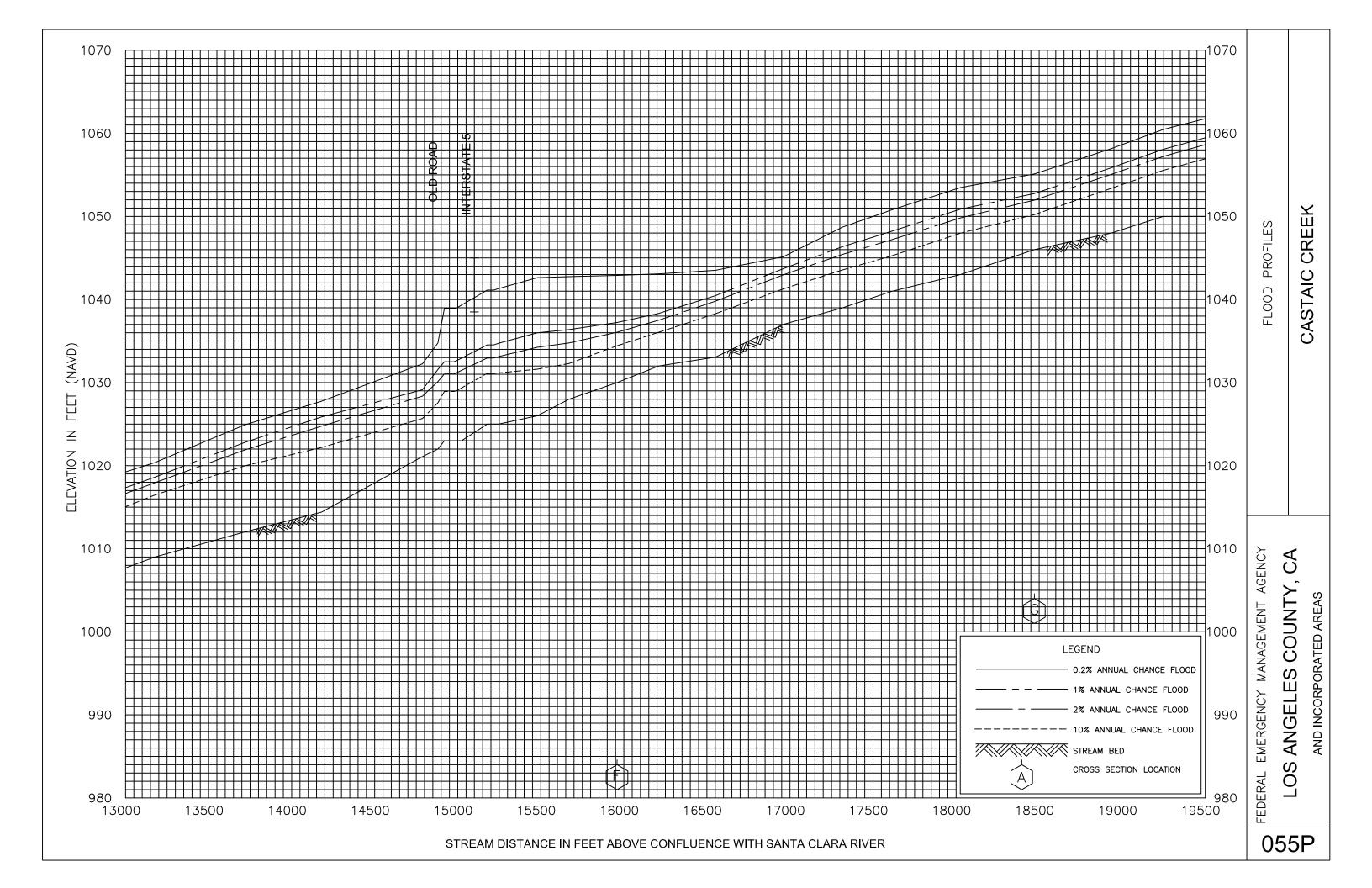


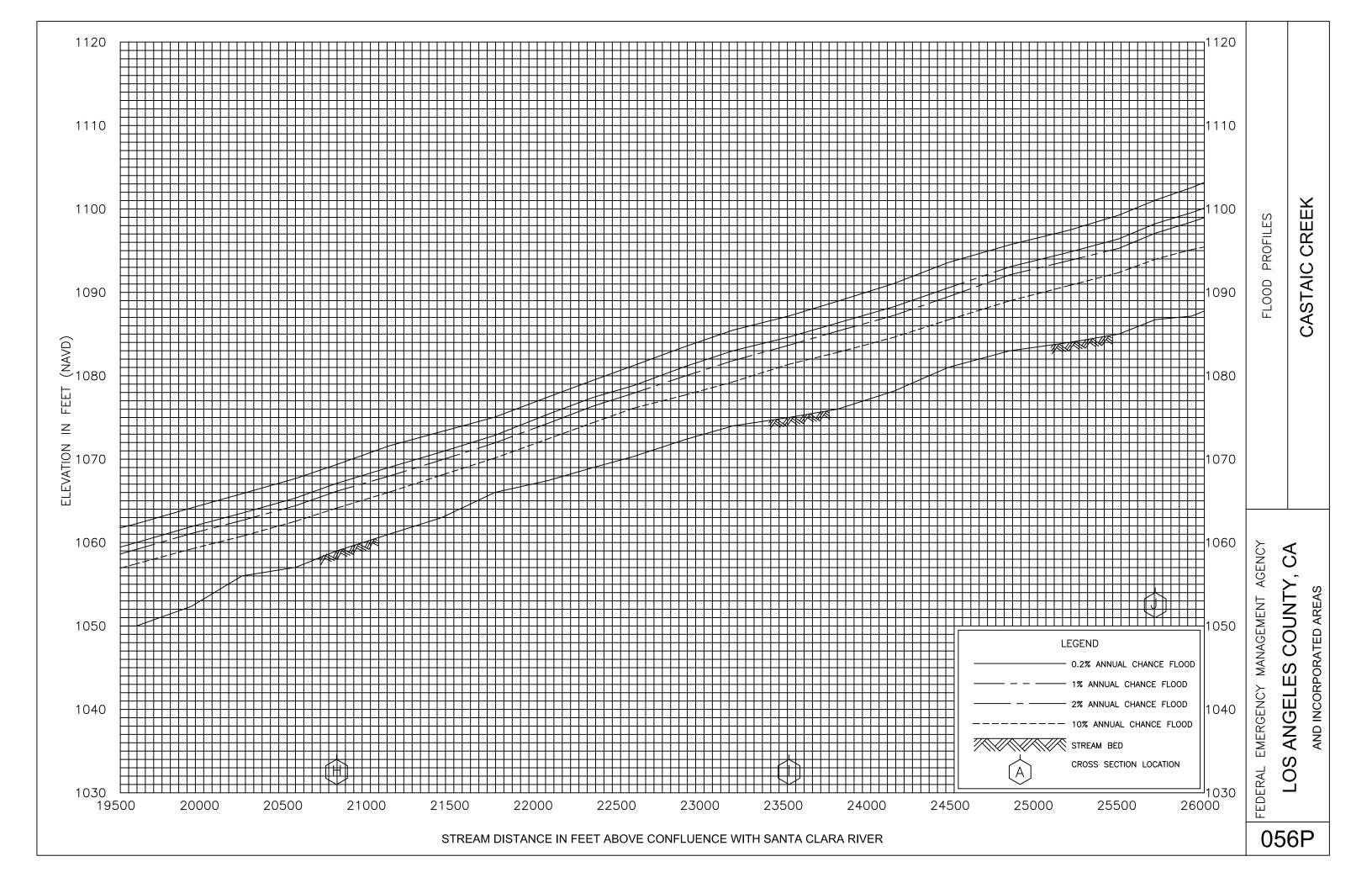


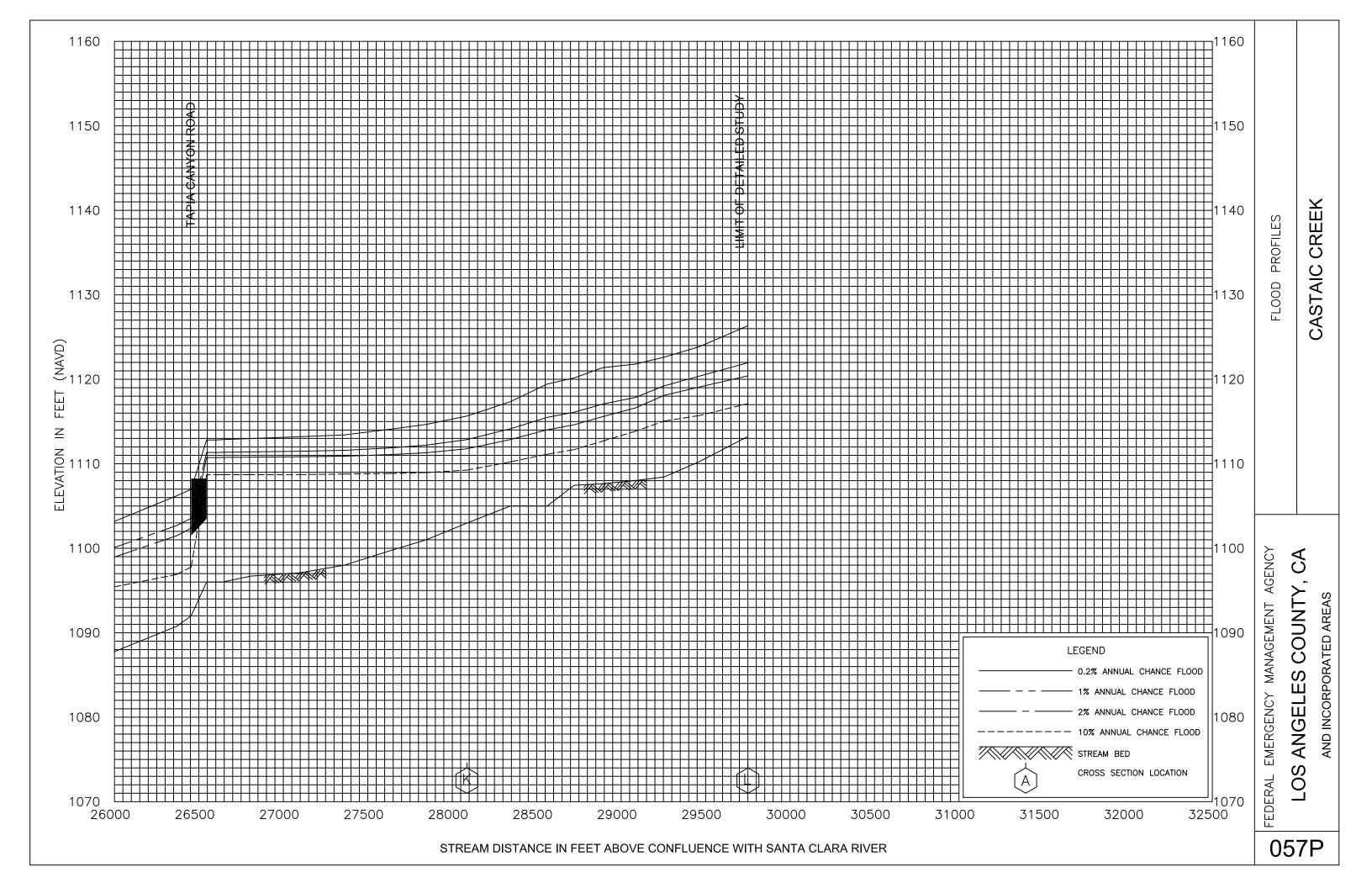


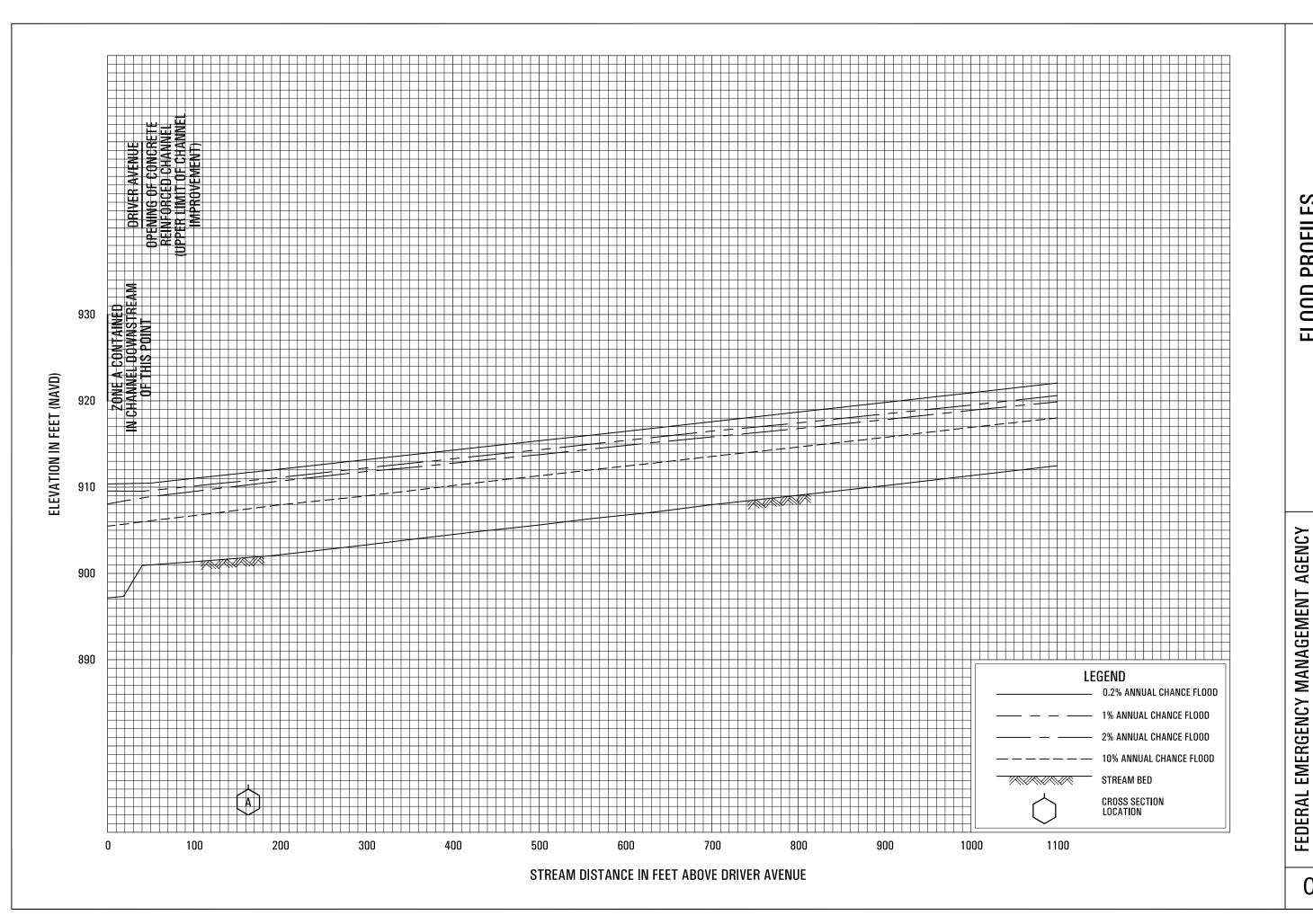








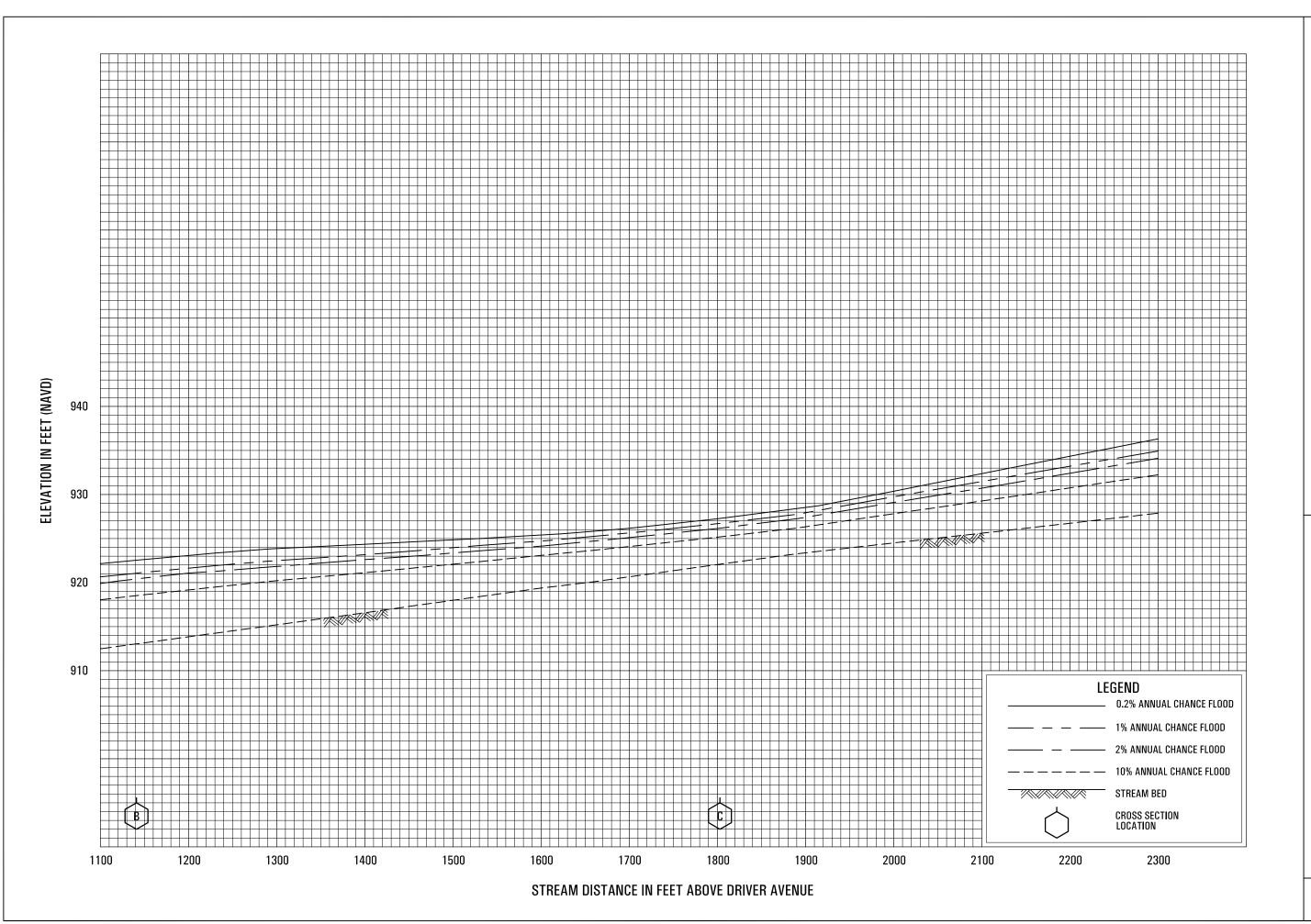




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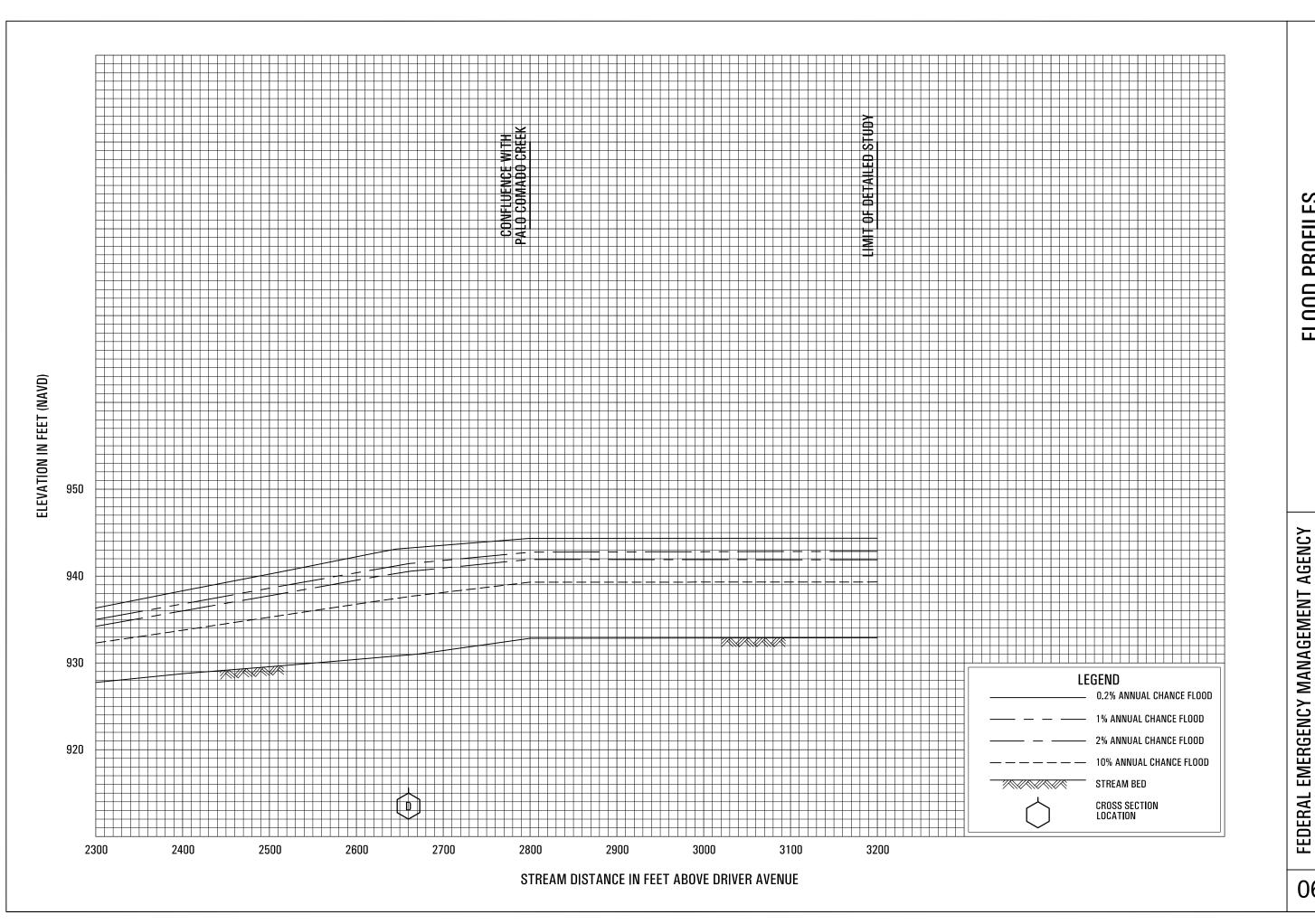
058P

LOS ANGELES COUNTY, CA



CHESEBORO CREEK

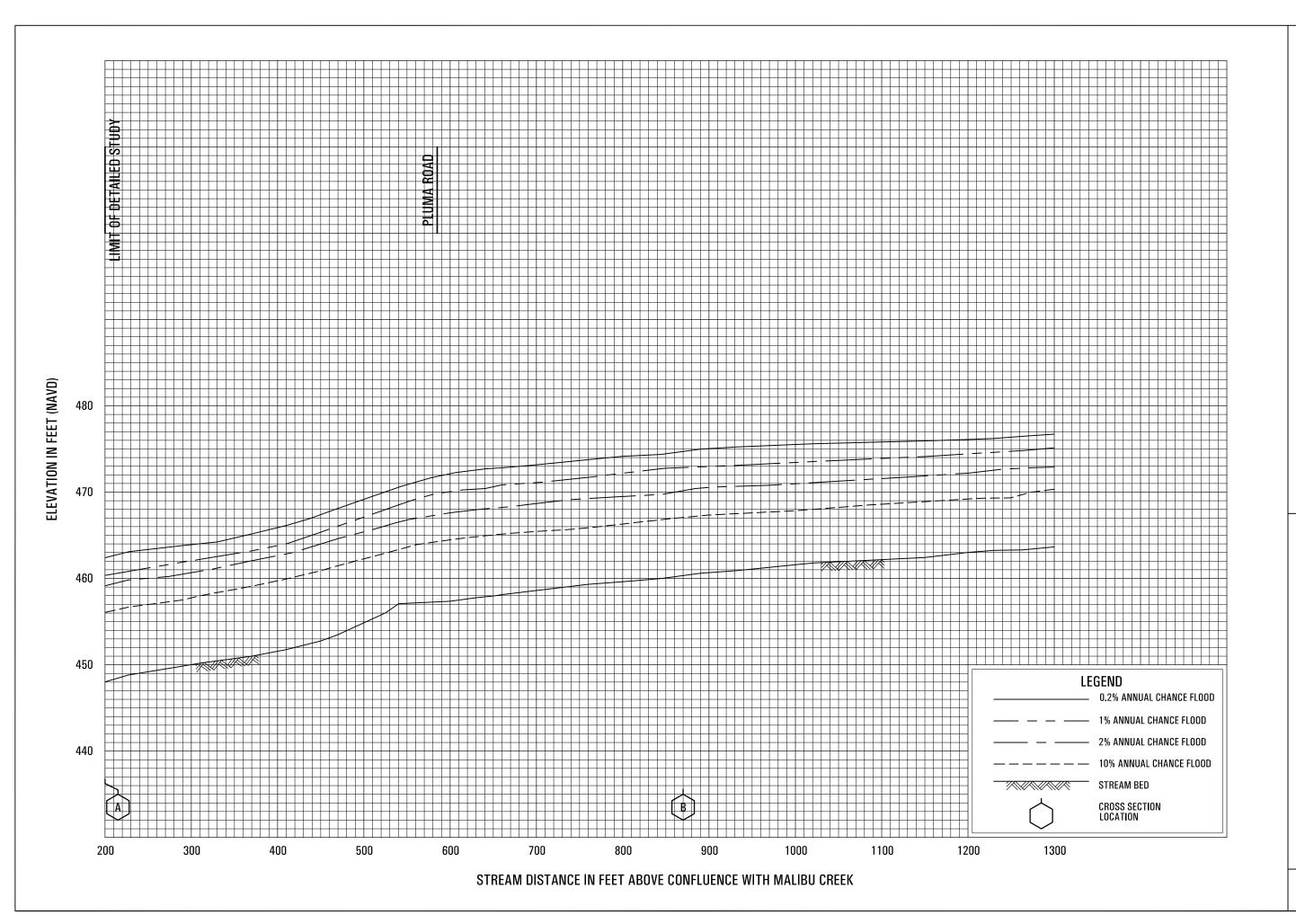
FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



CHESEBORO CREEK

060P

LOS ANGELES COUNTY, CA

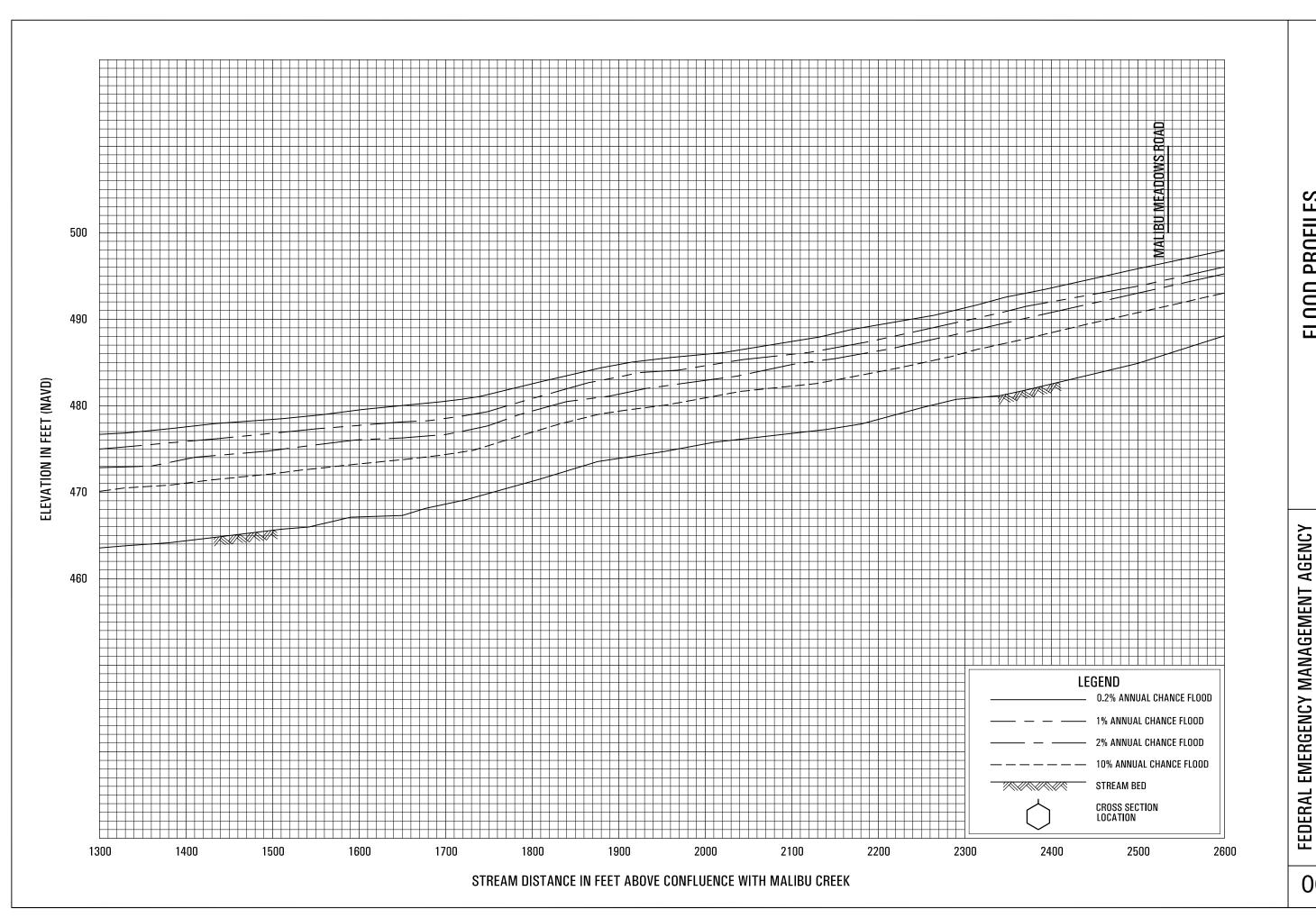


COLD CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

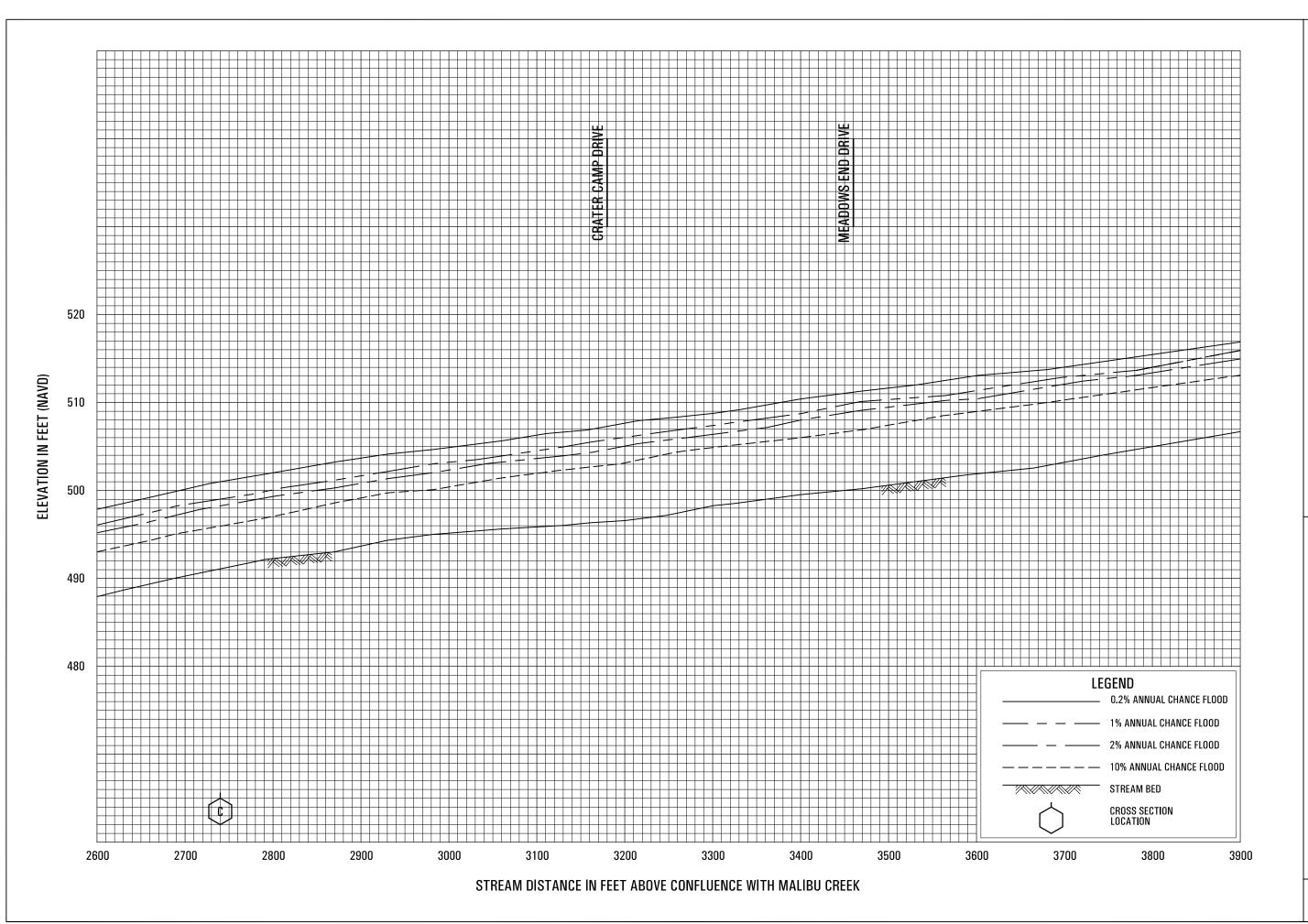
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AND INCORPORATED AREAS



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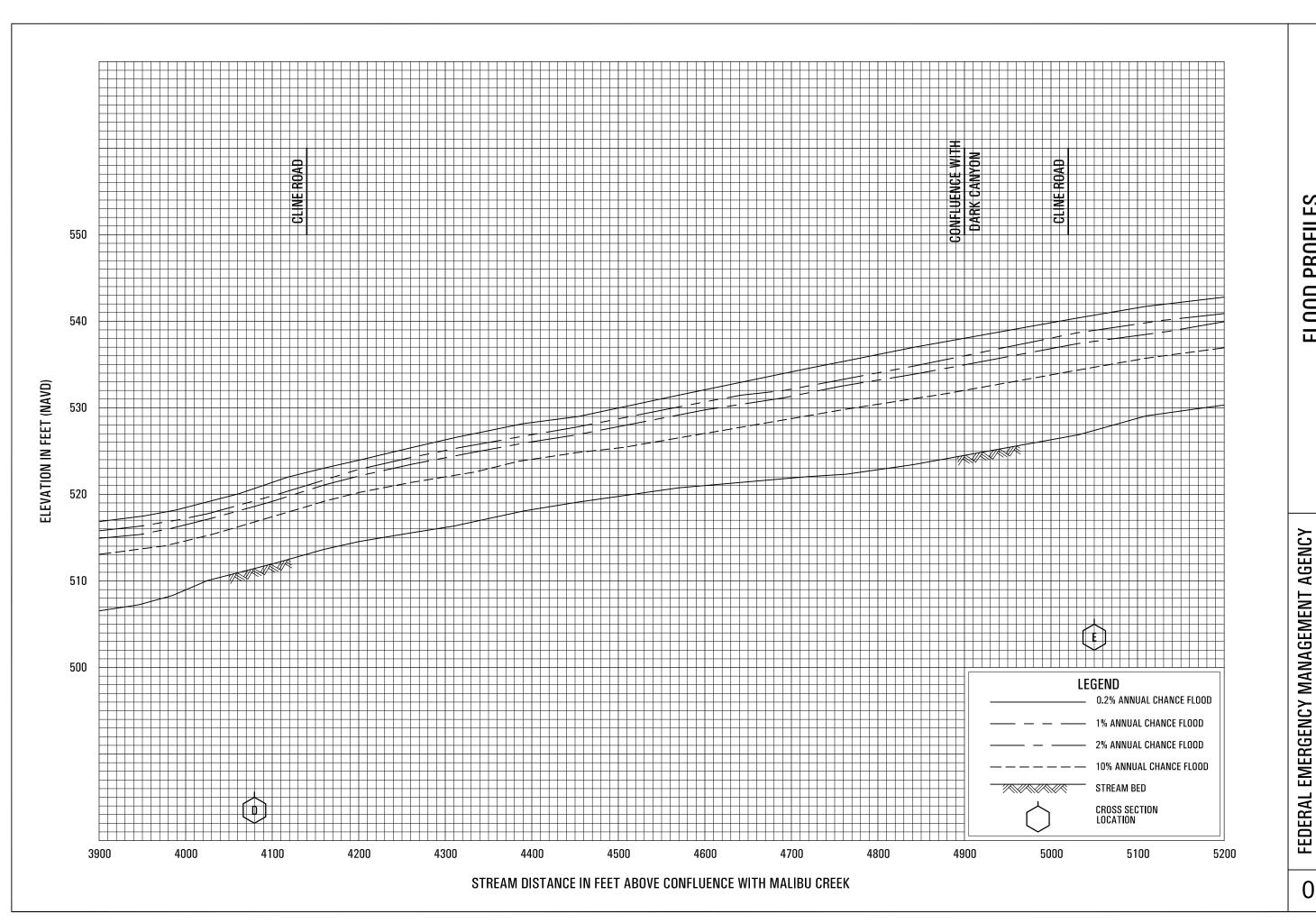
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COLD CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CA

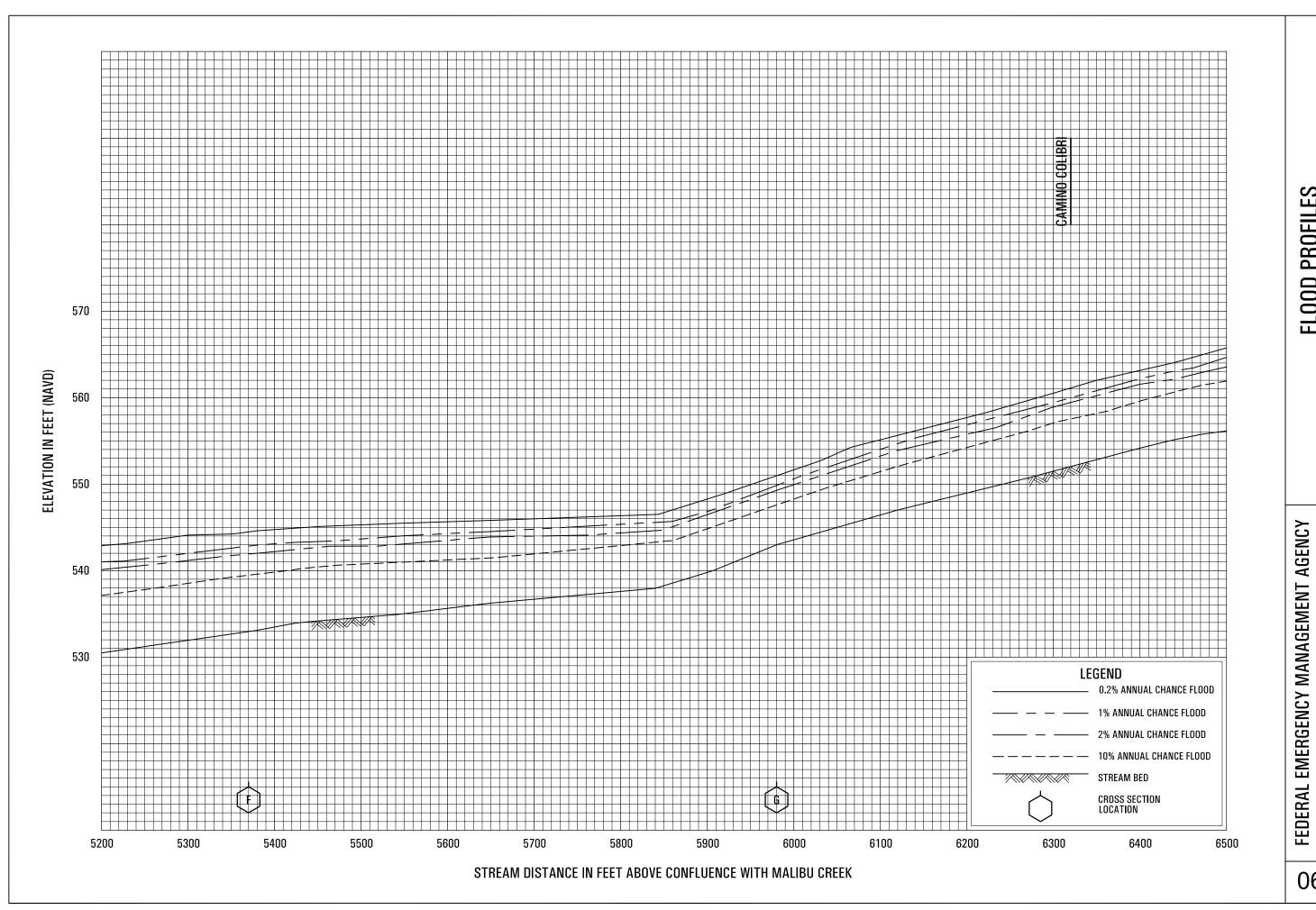
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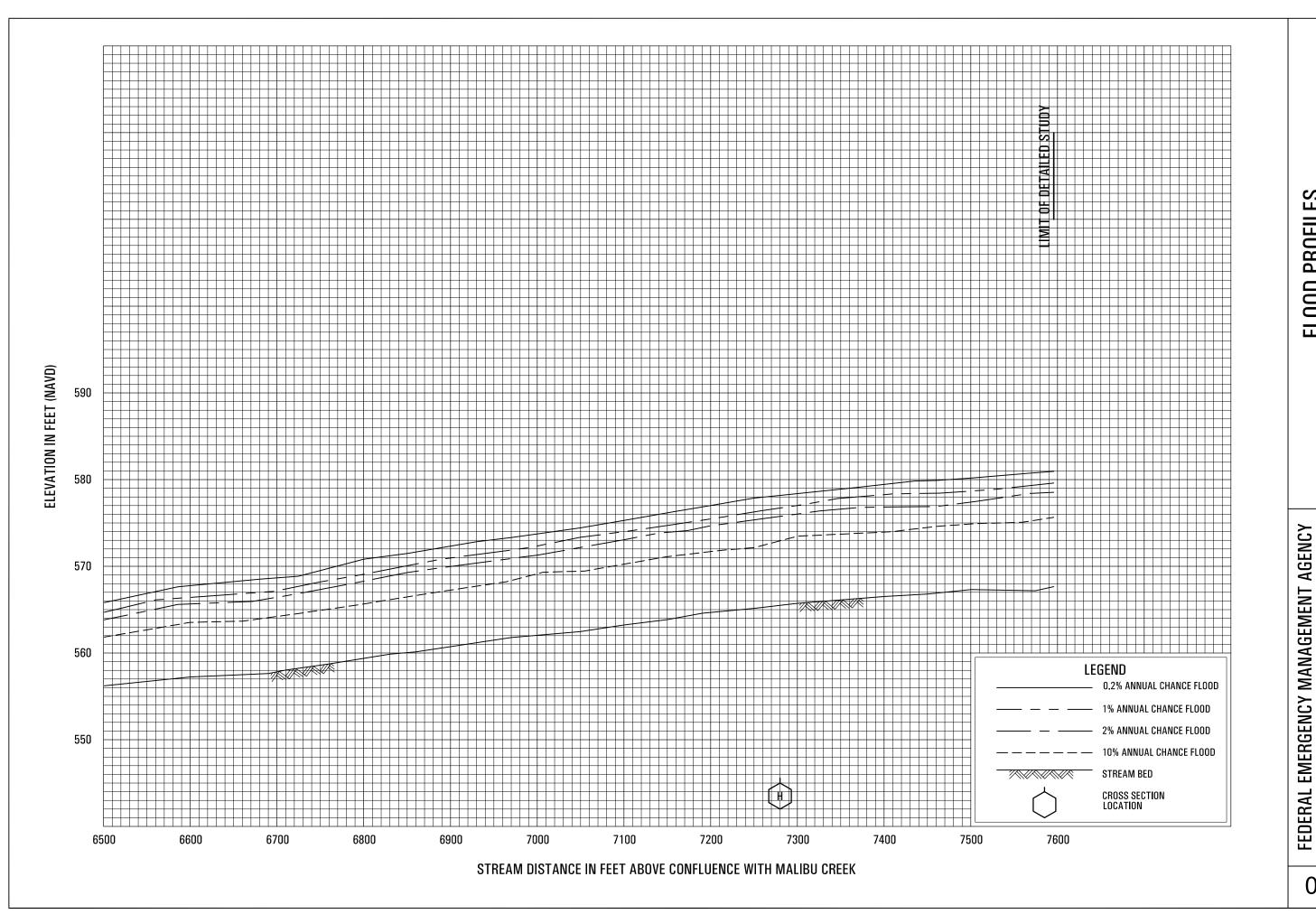
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COLD CREEK

LOS ANGELES COUNTY, CA

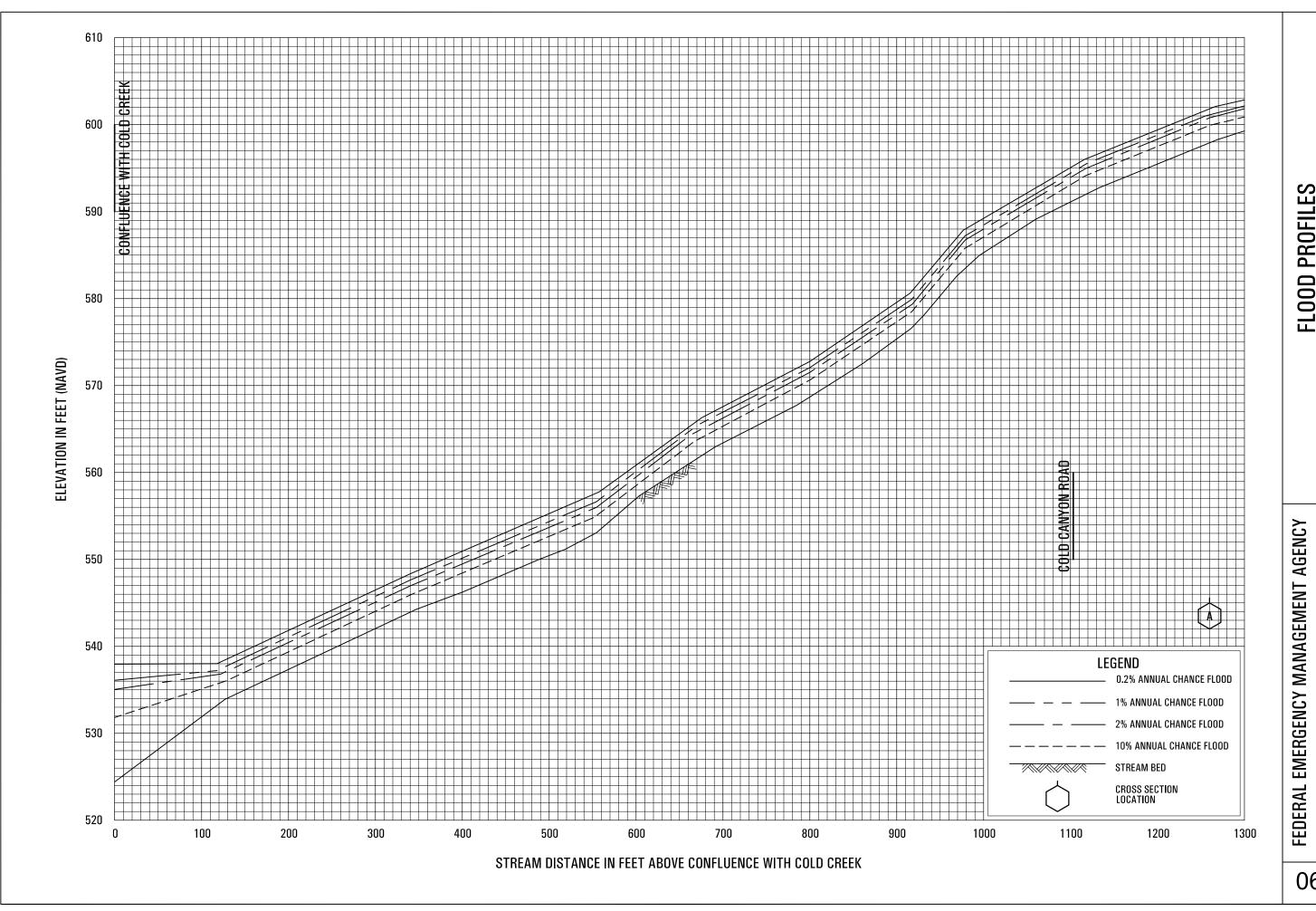
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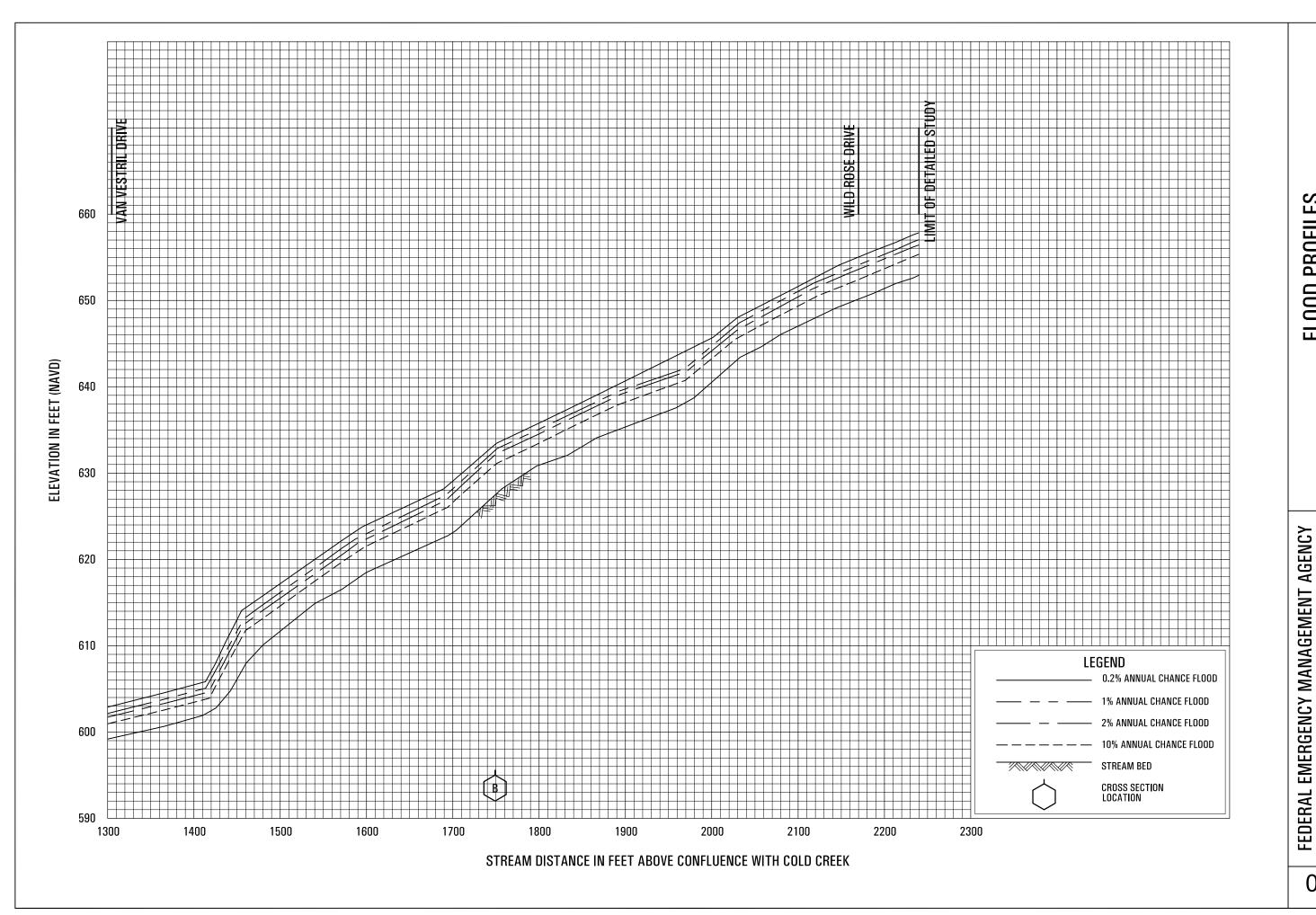
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DARK CANYON

067P

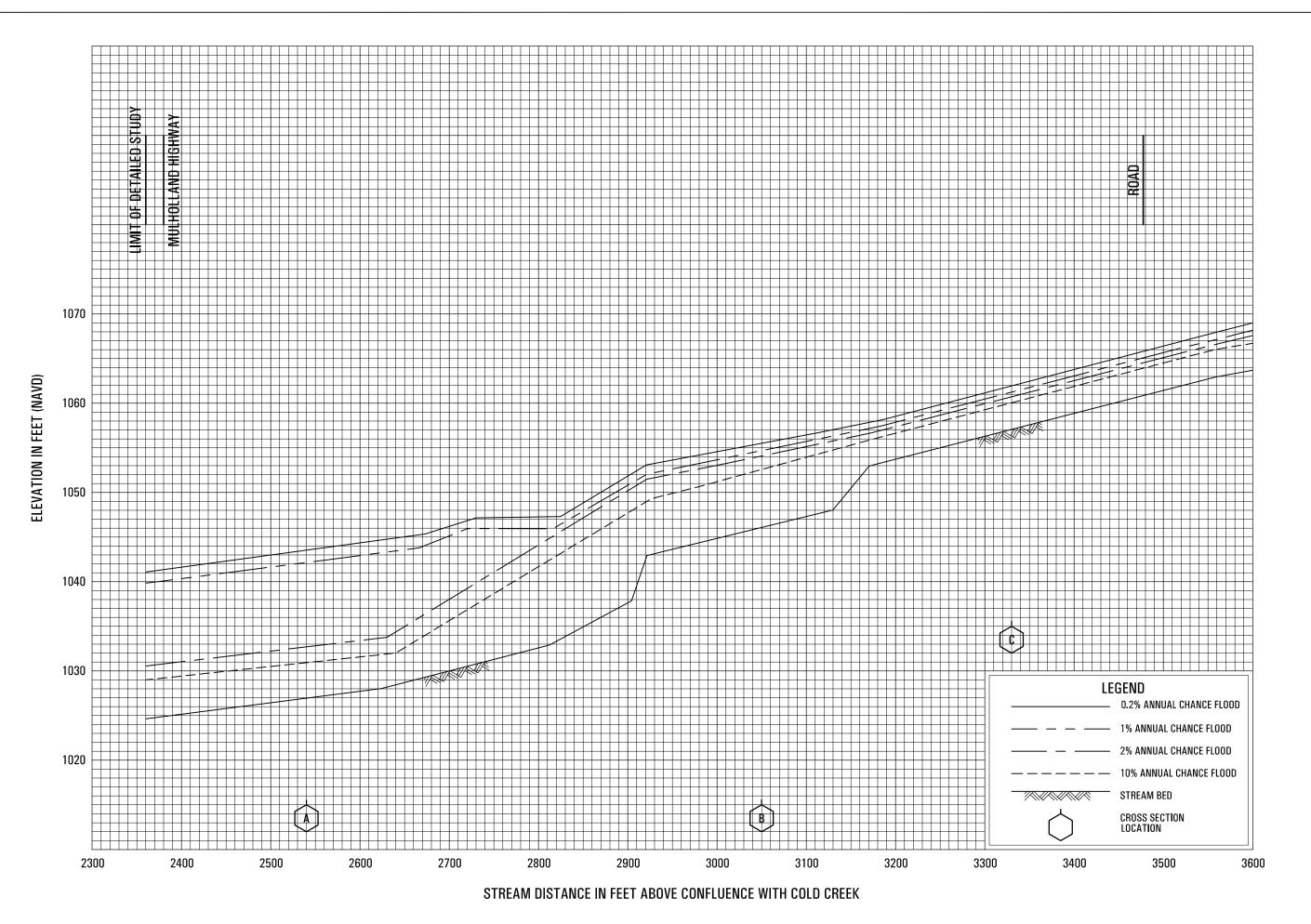
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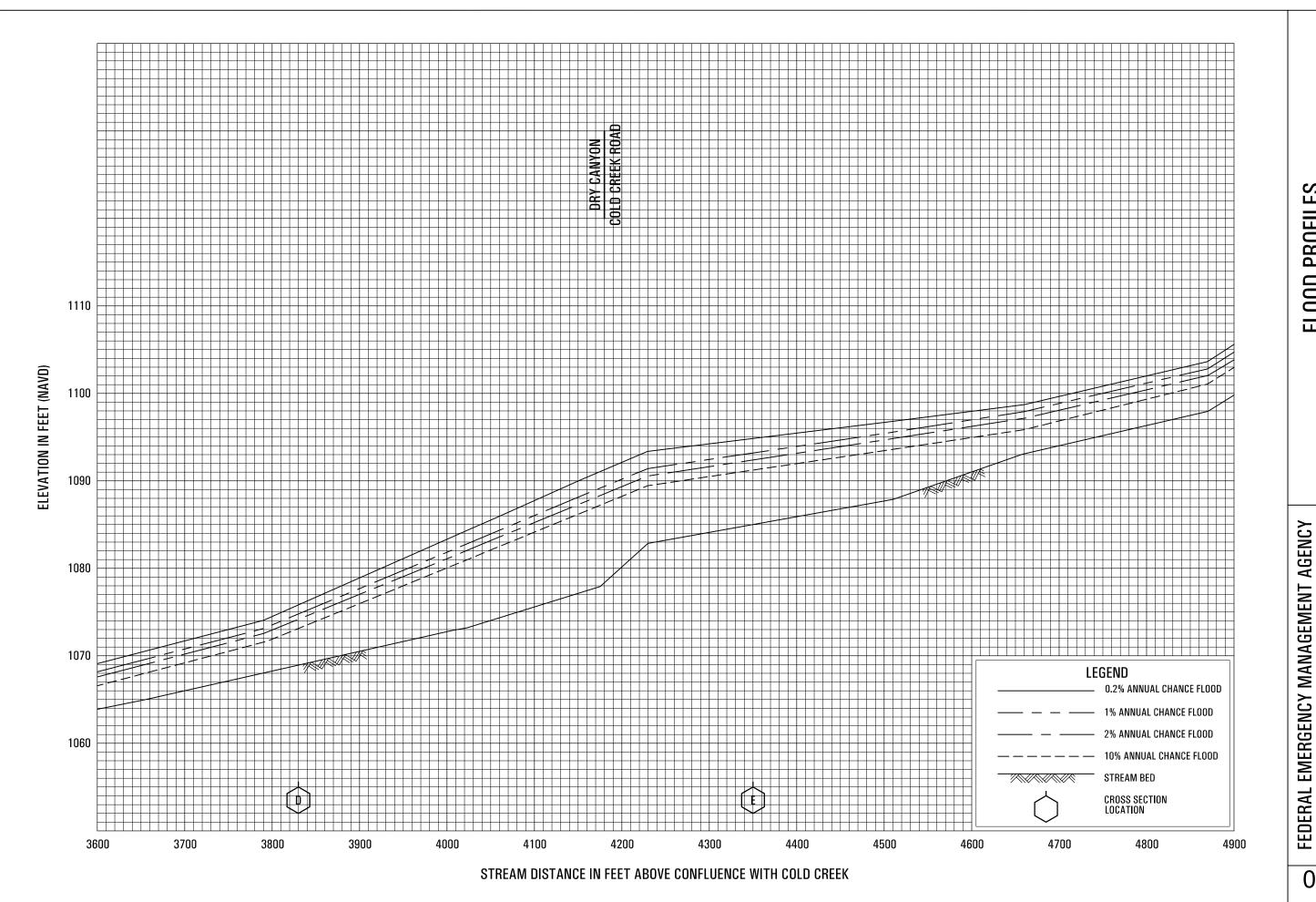
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DRY CANYON

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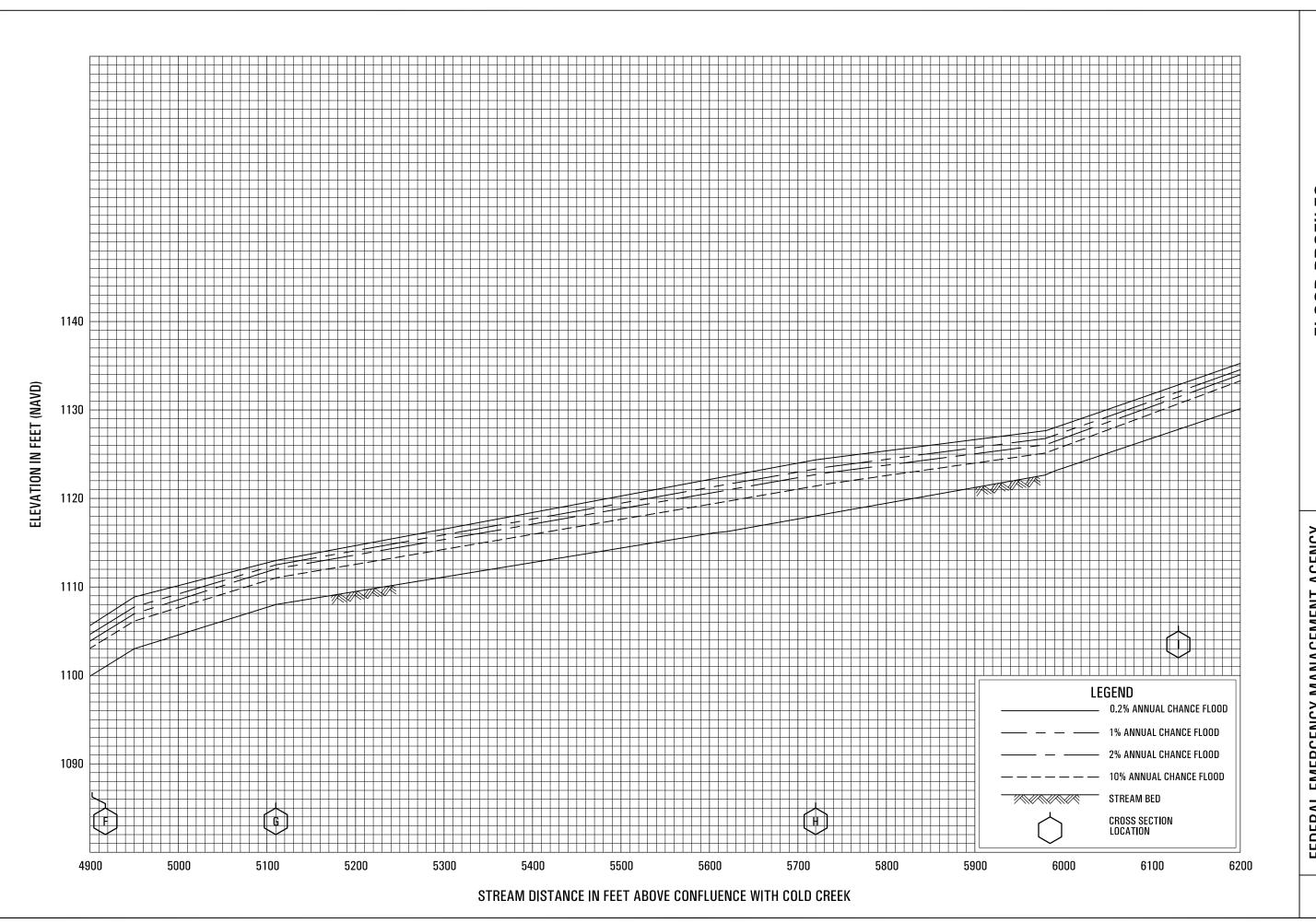
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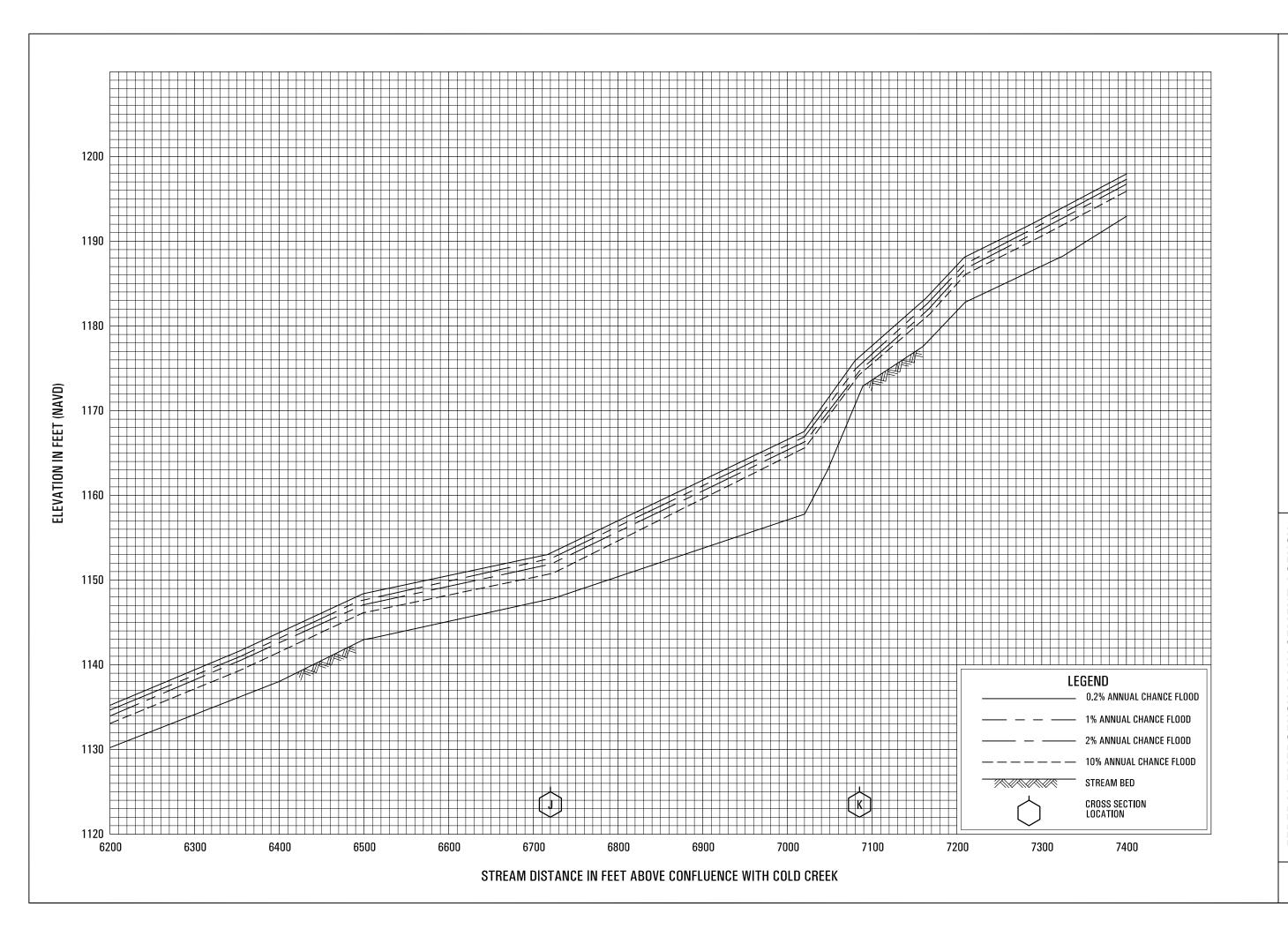
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AND INCORPORATED AREAS



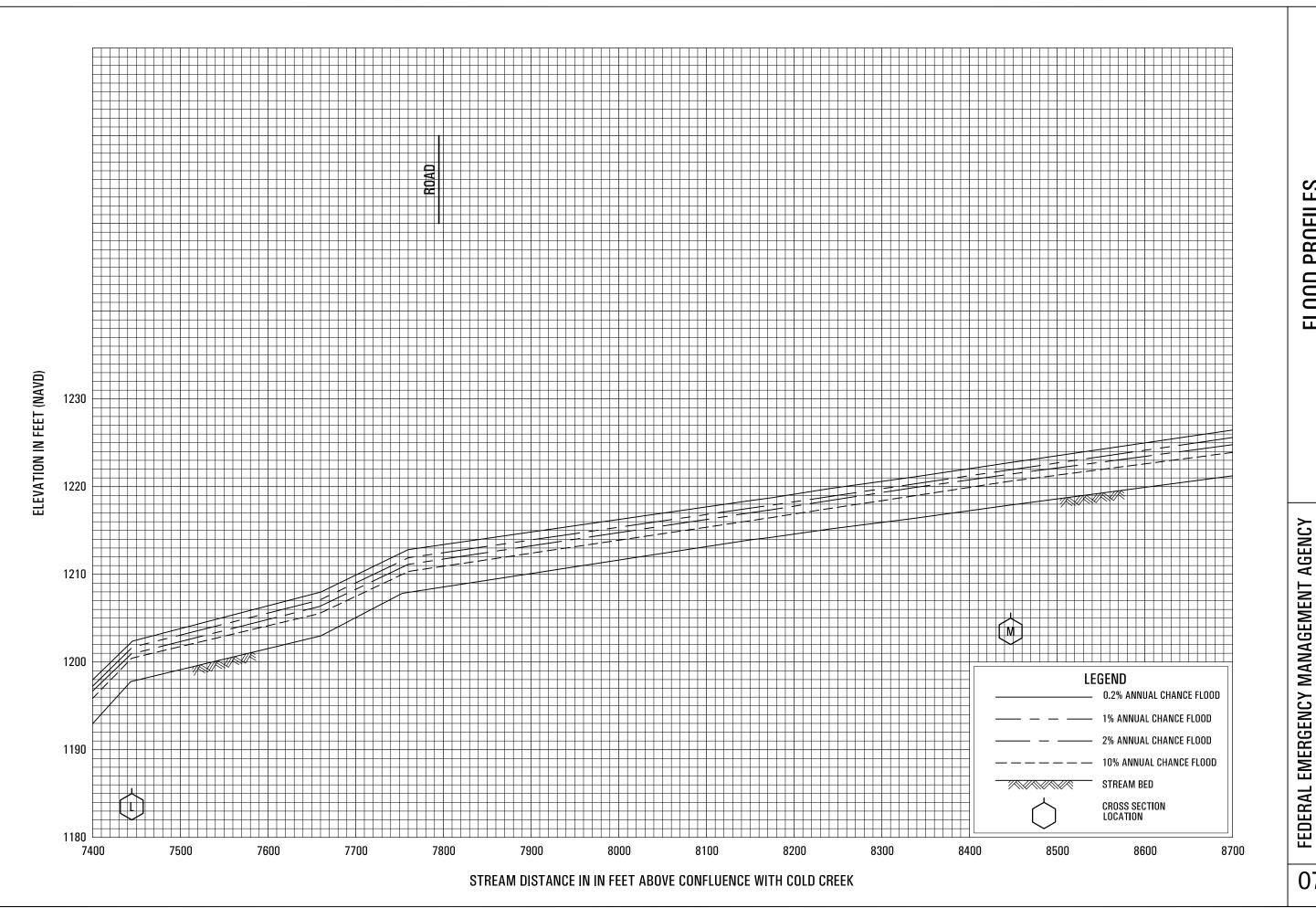
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LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



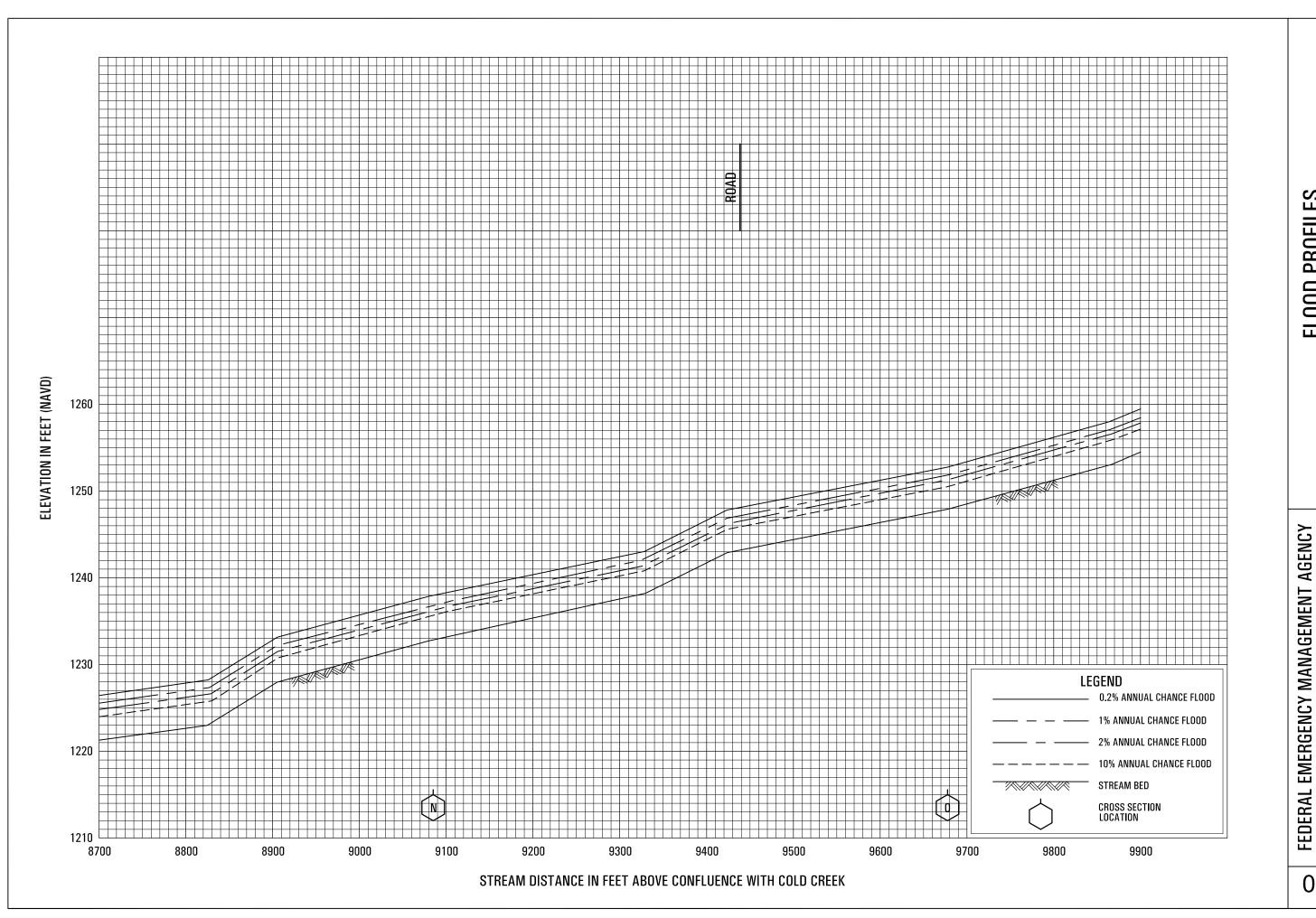
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FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



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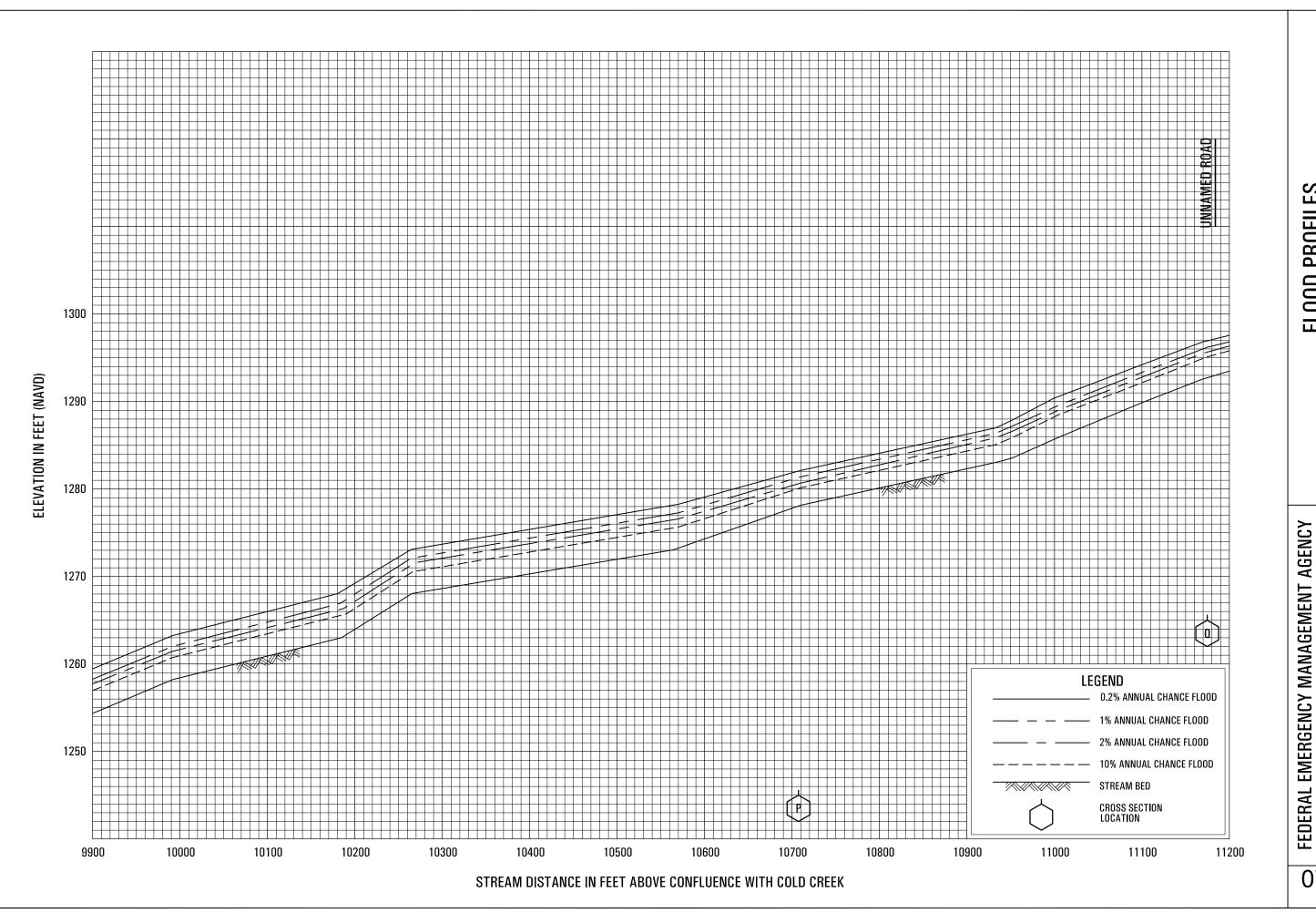
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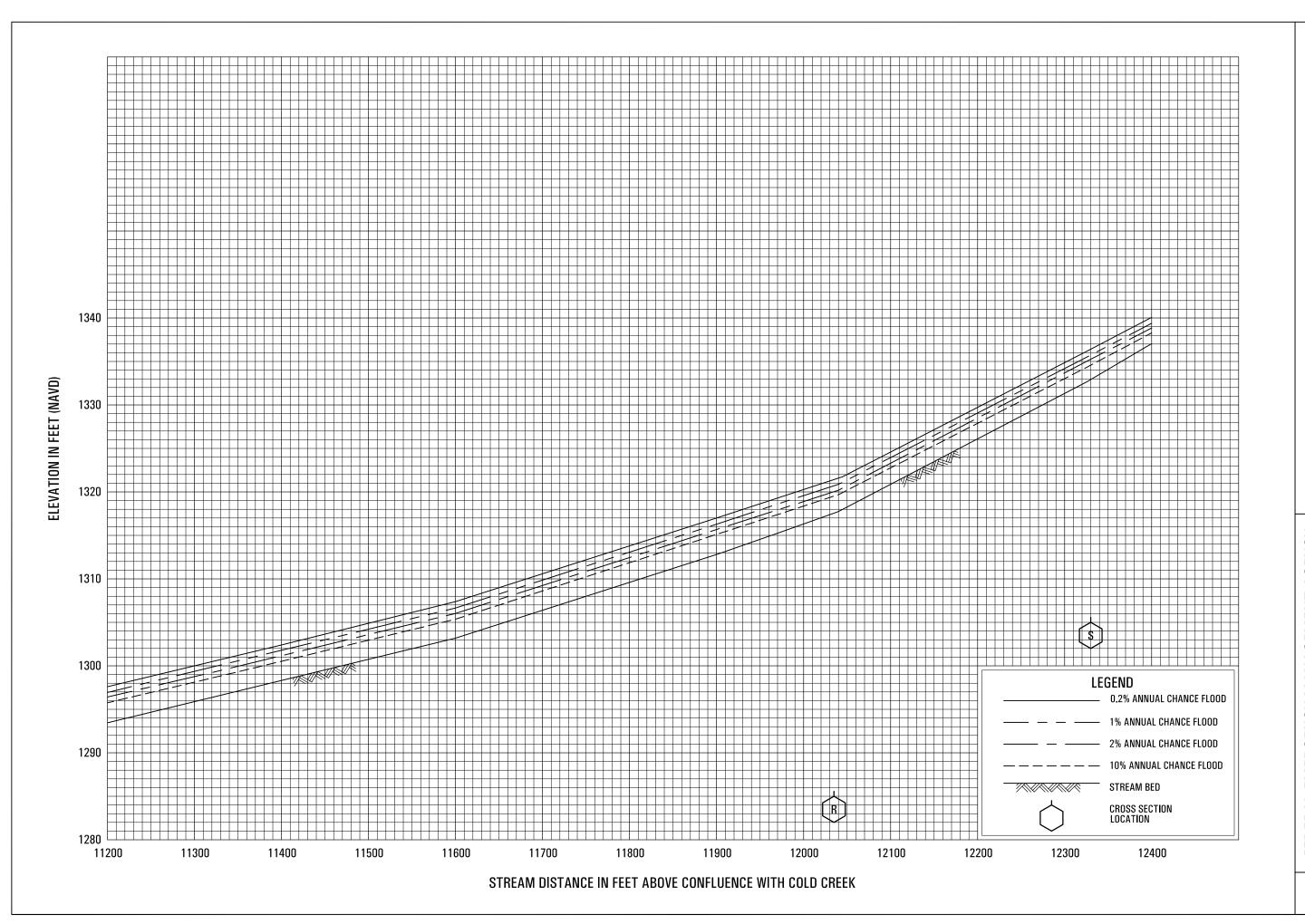
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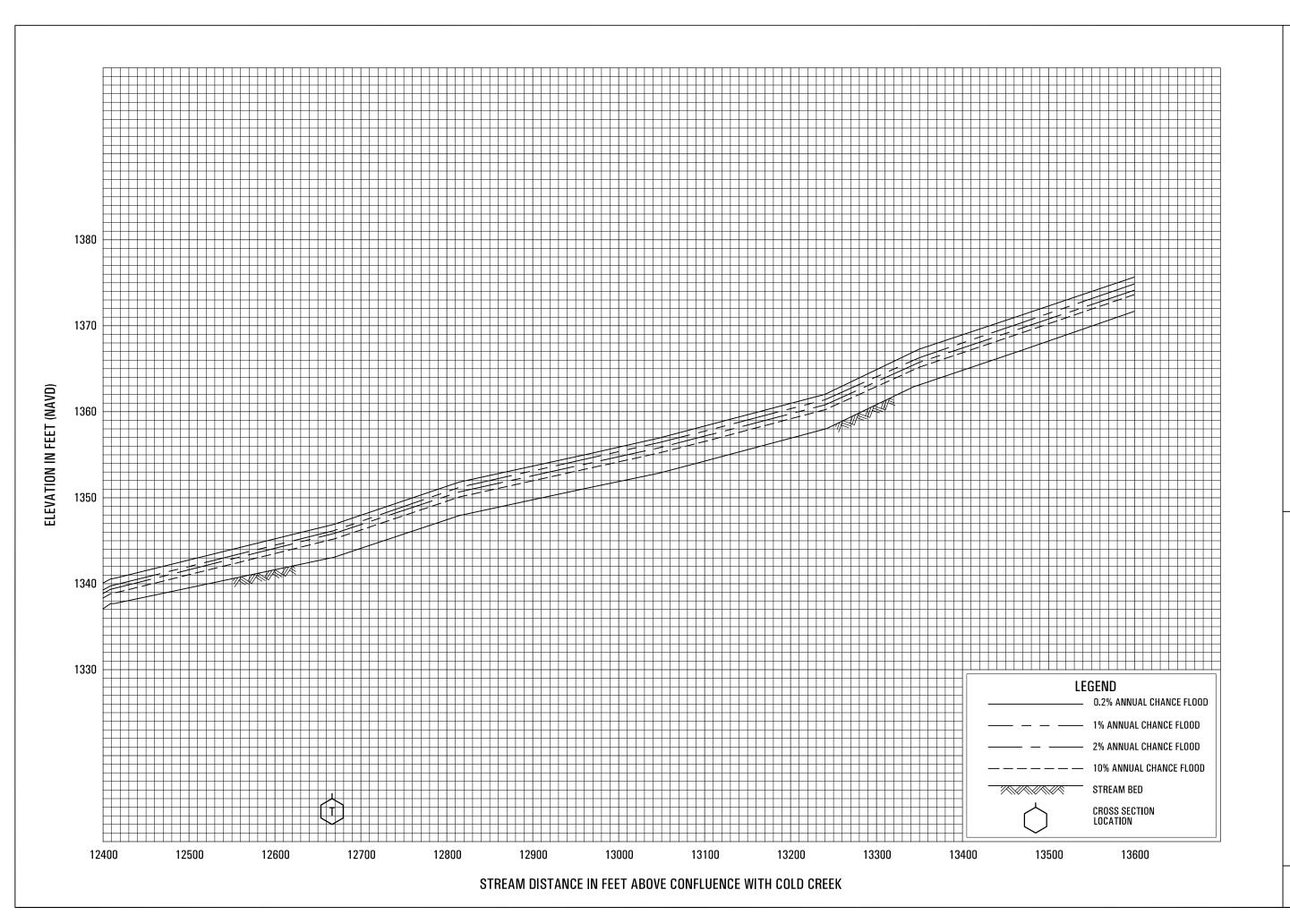
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LOS ANGELES COUNTY, CA



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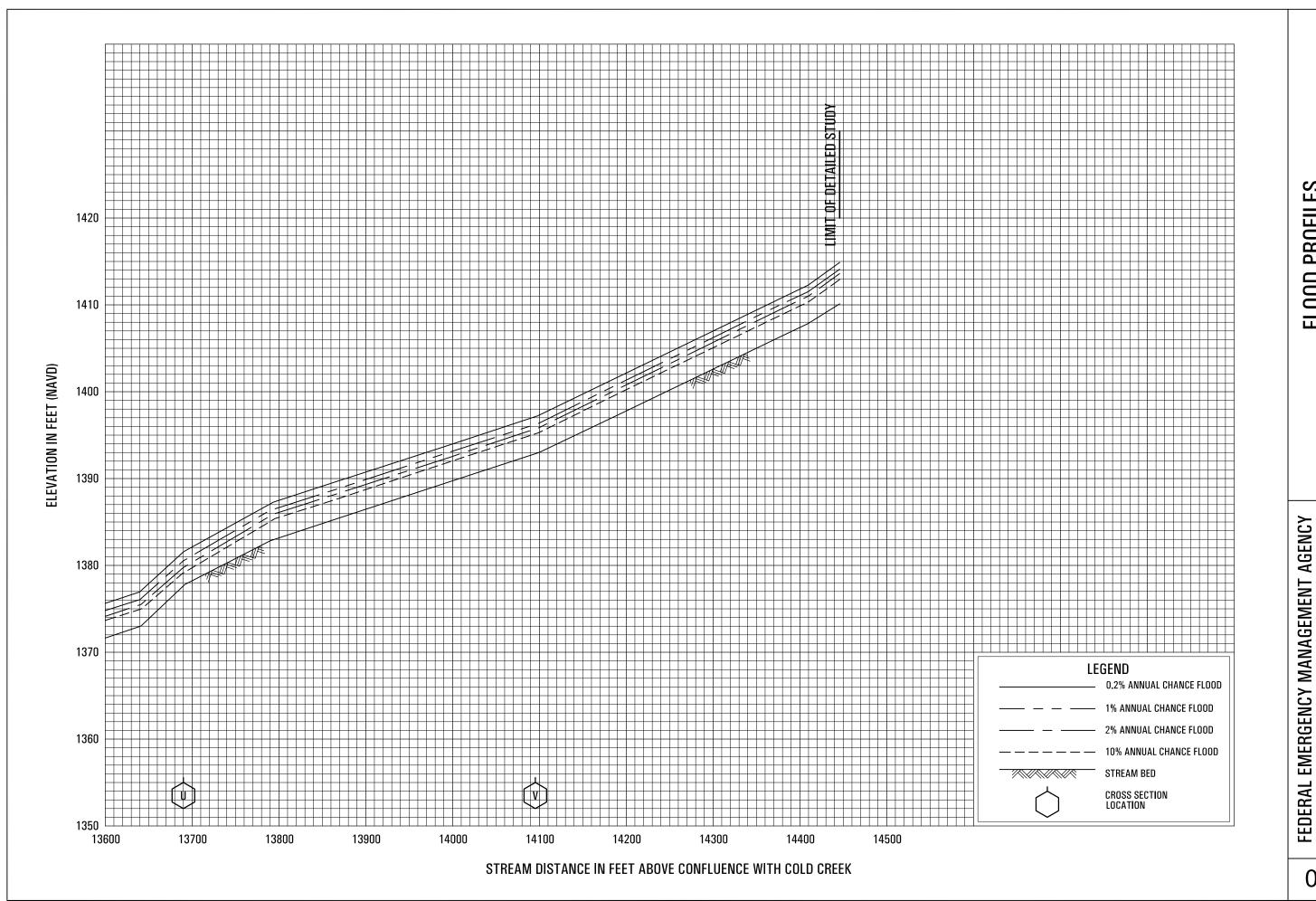
FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



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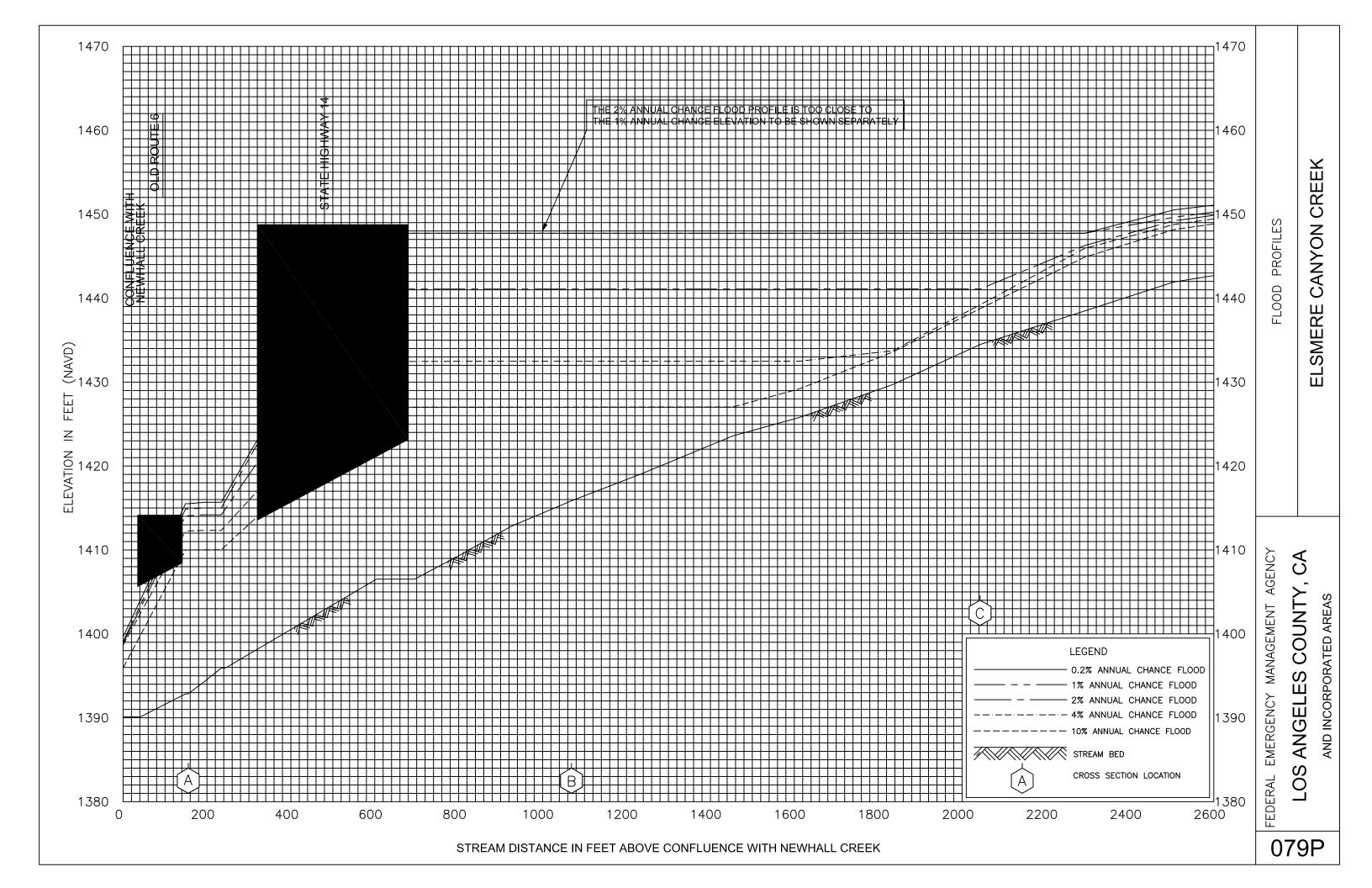
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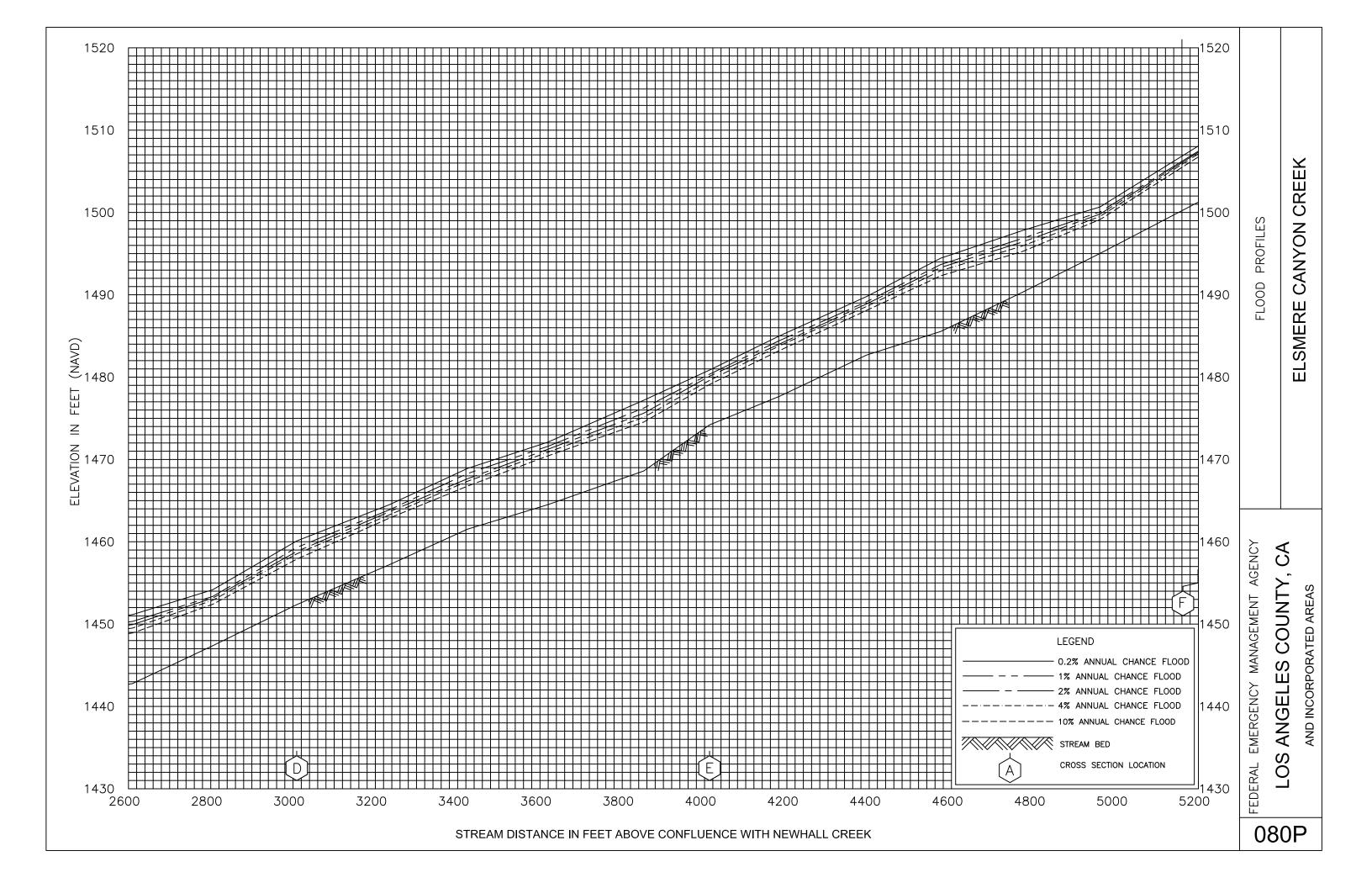


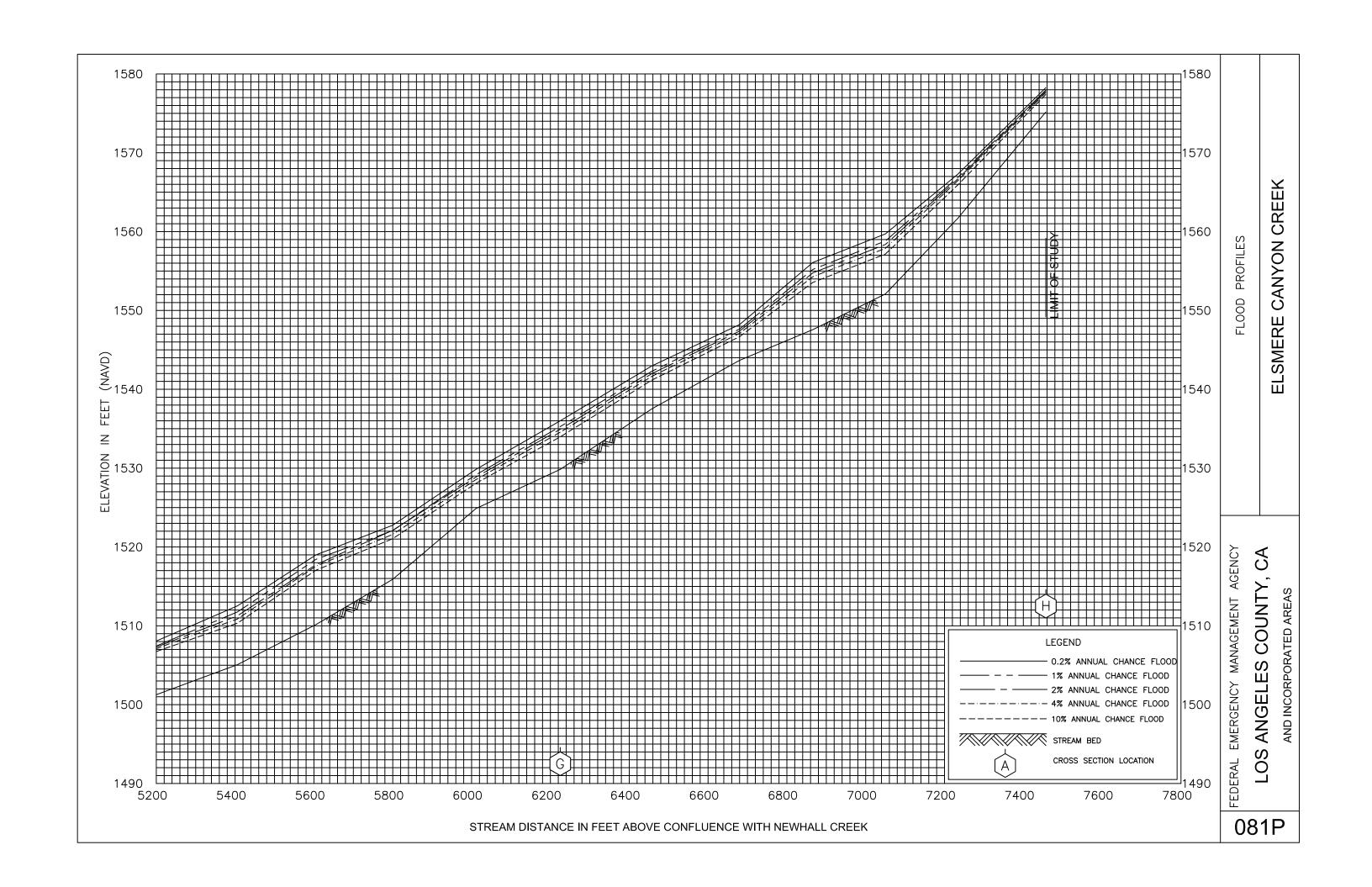
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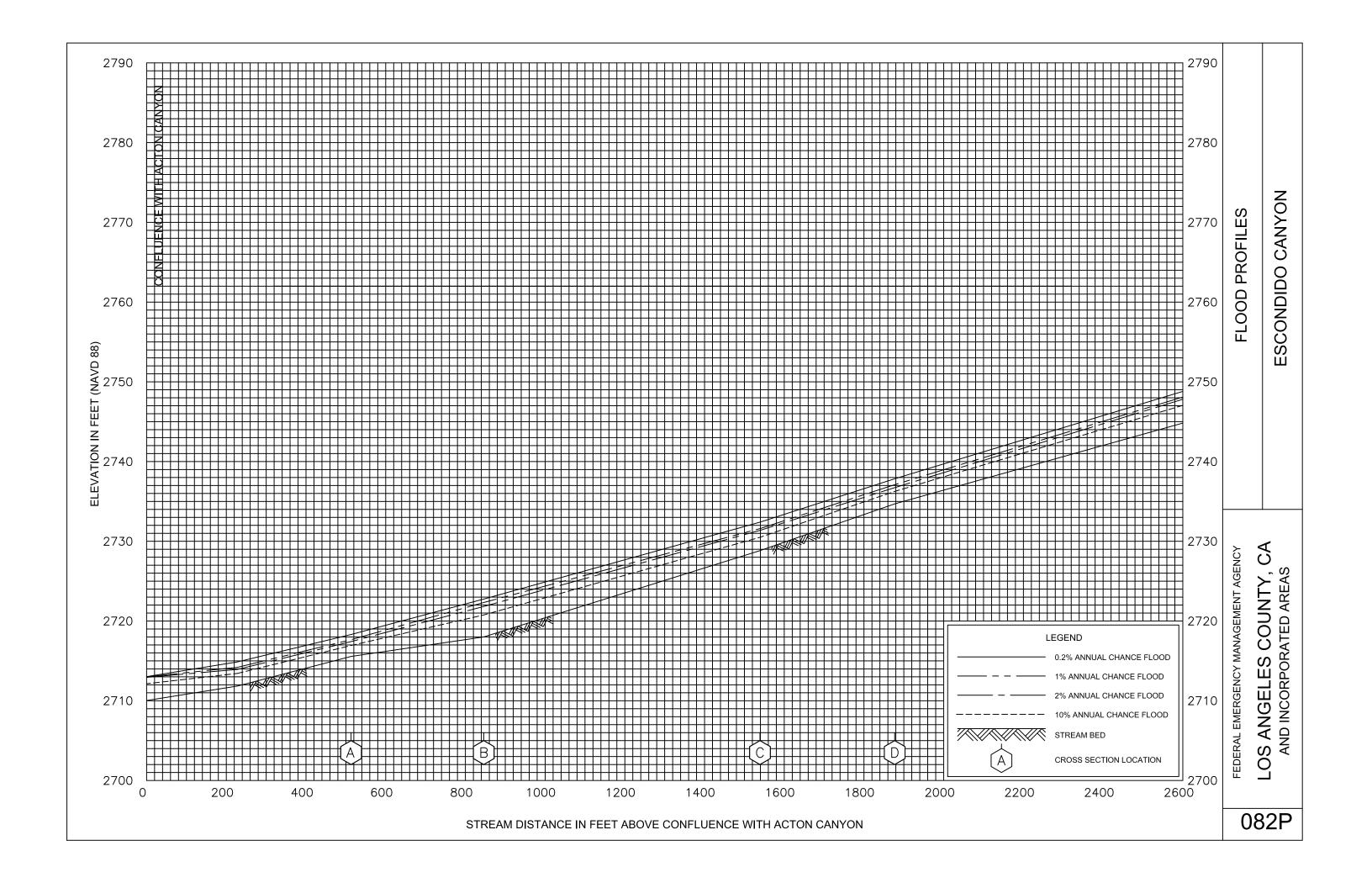
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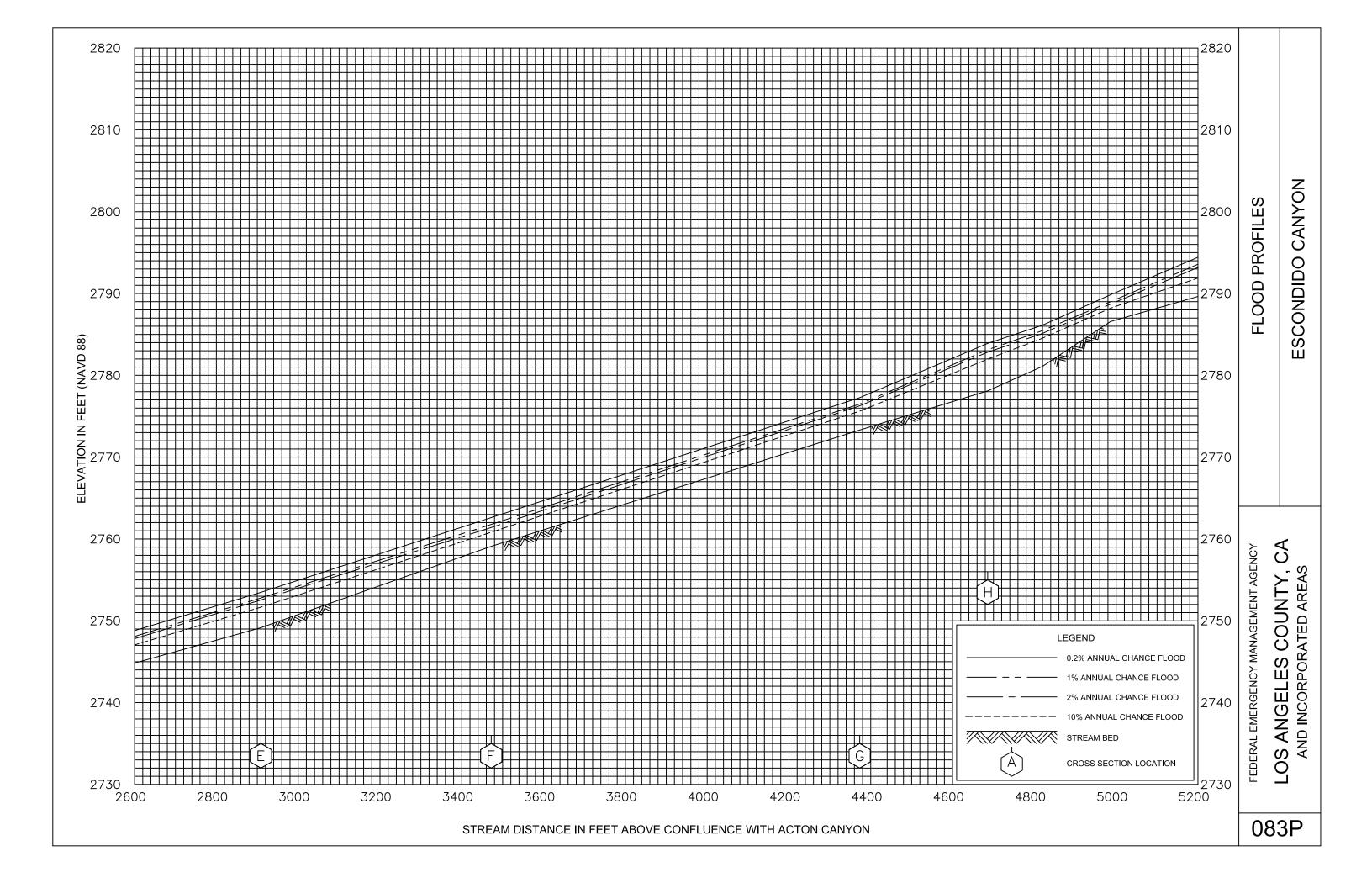
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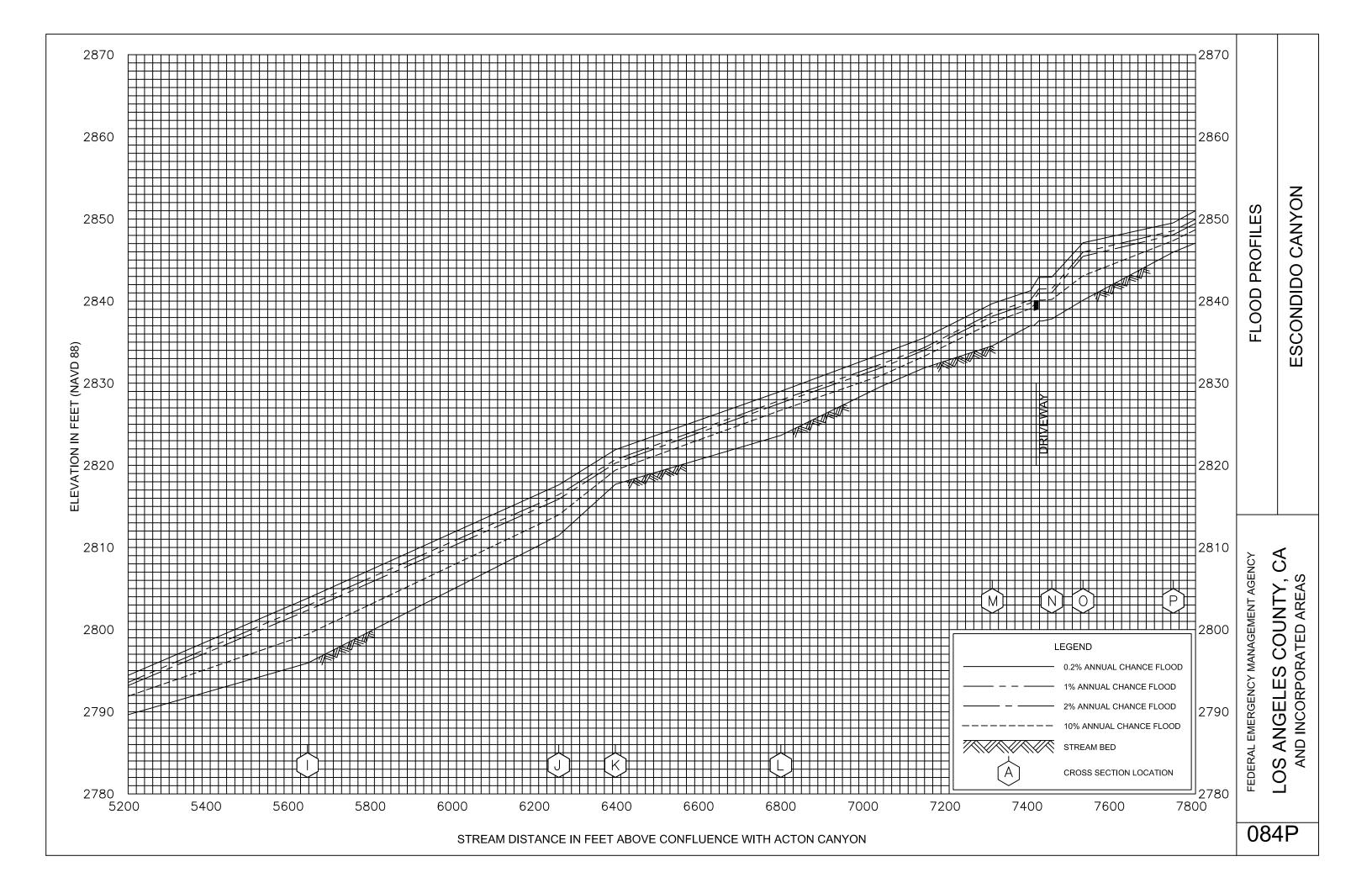


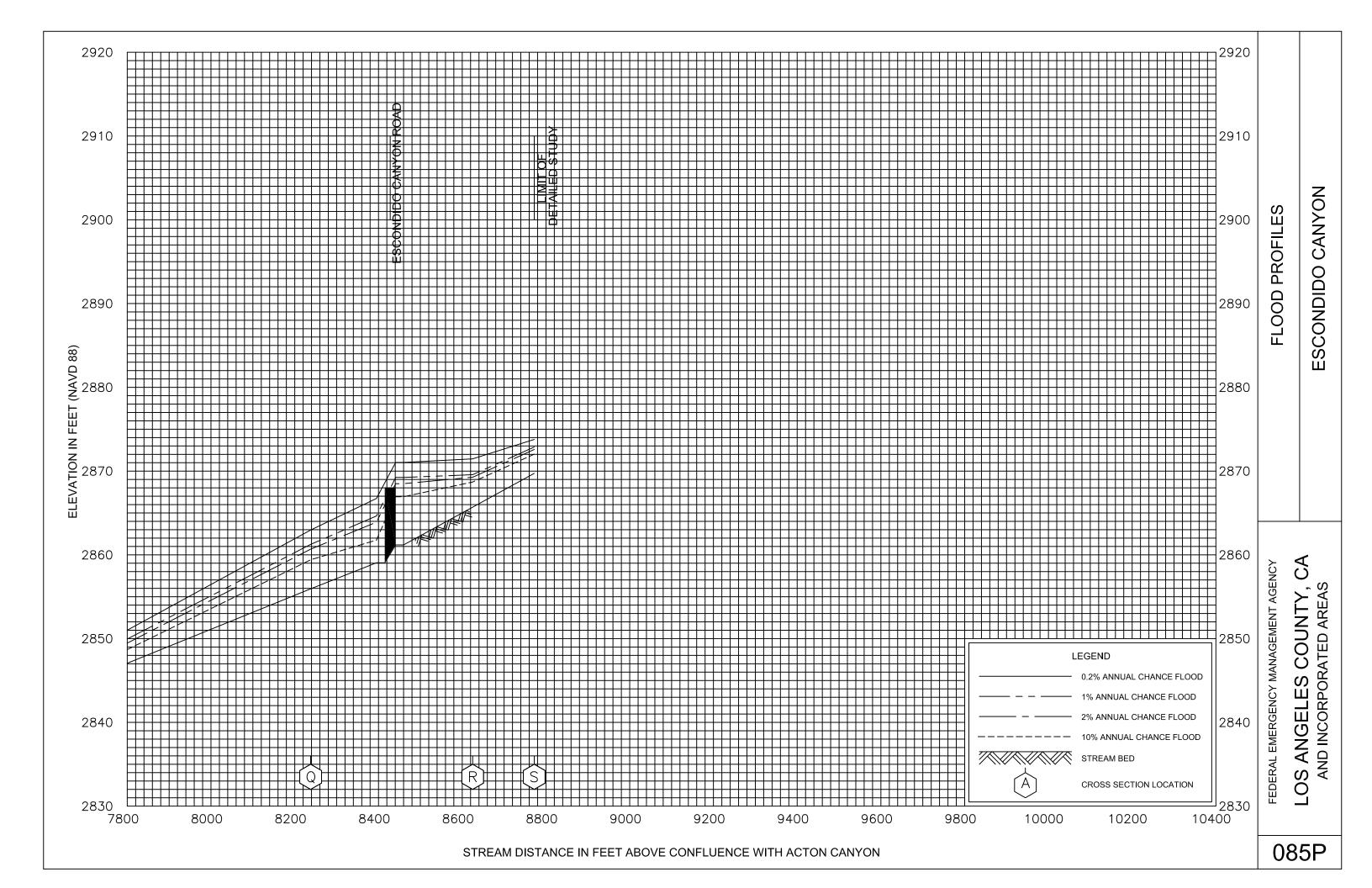


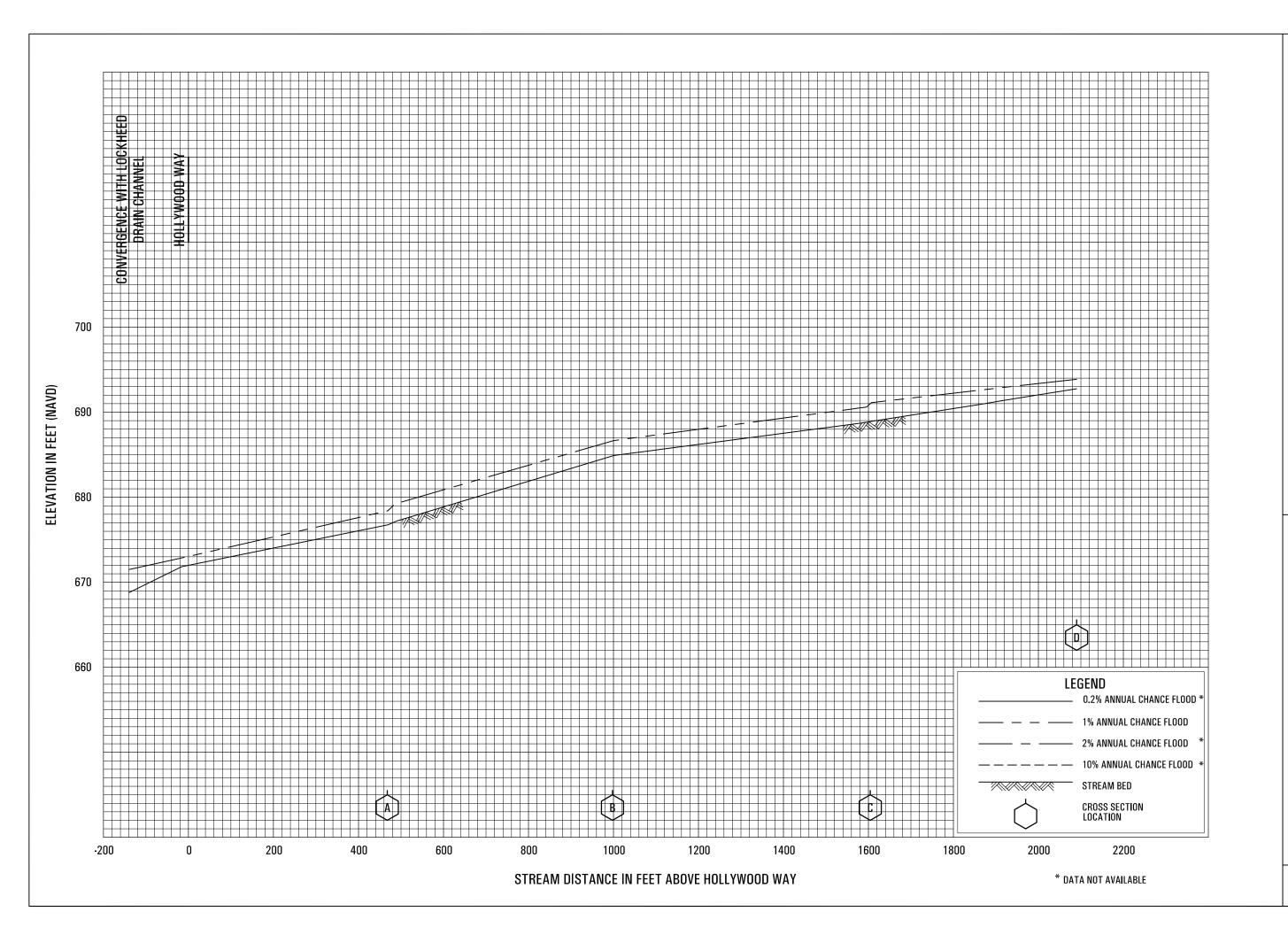






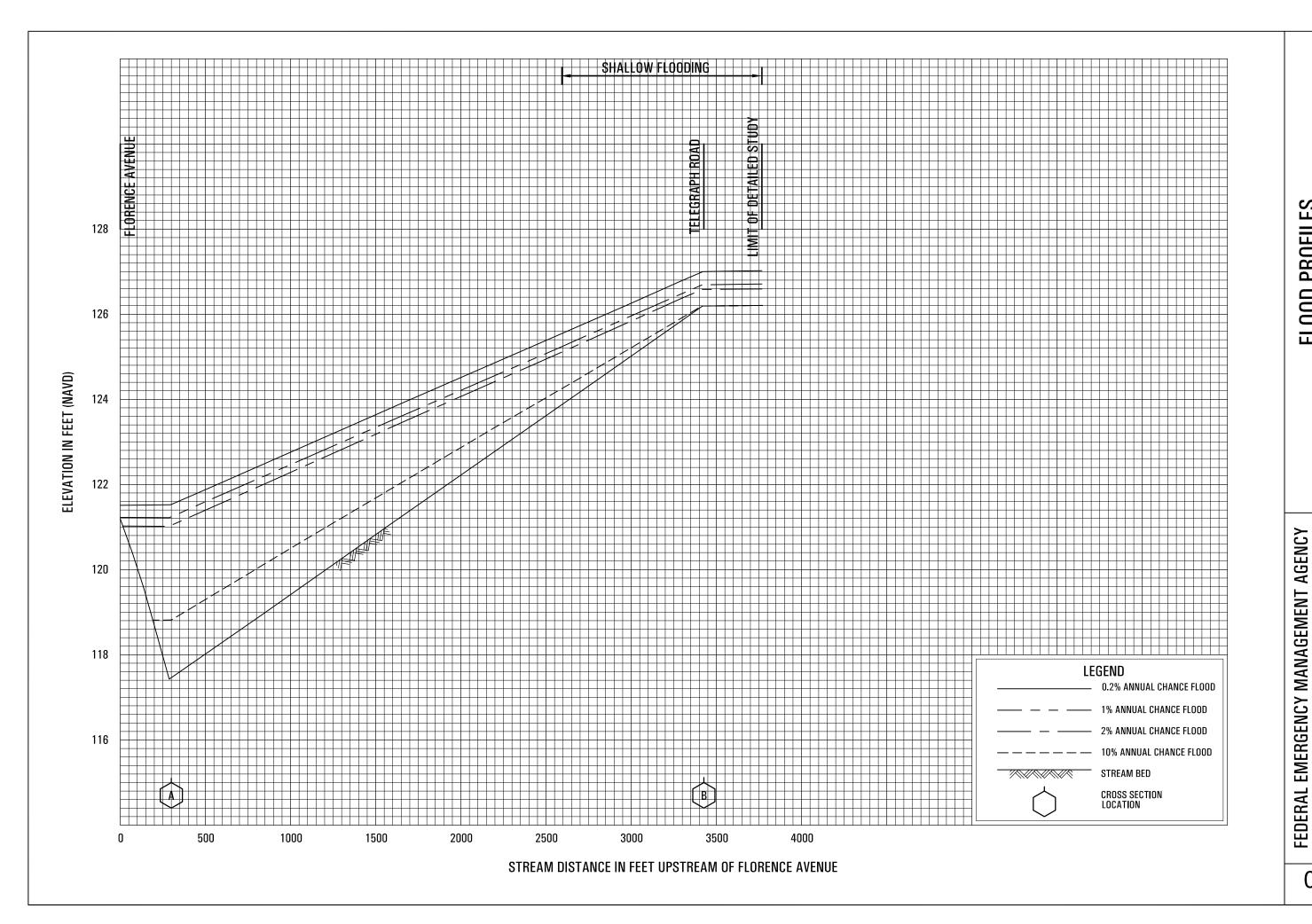






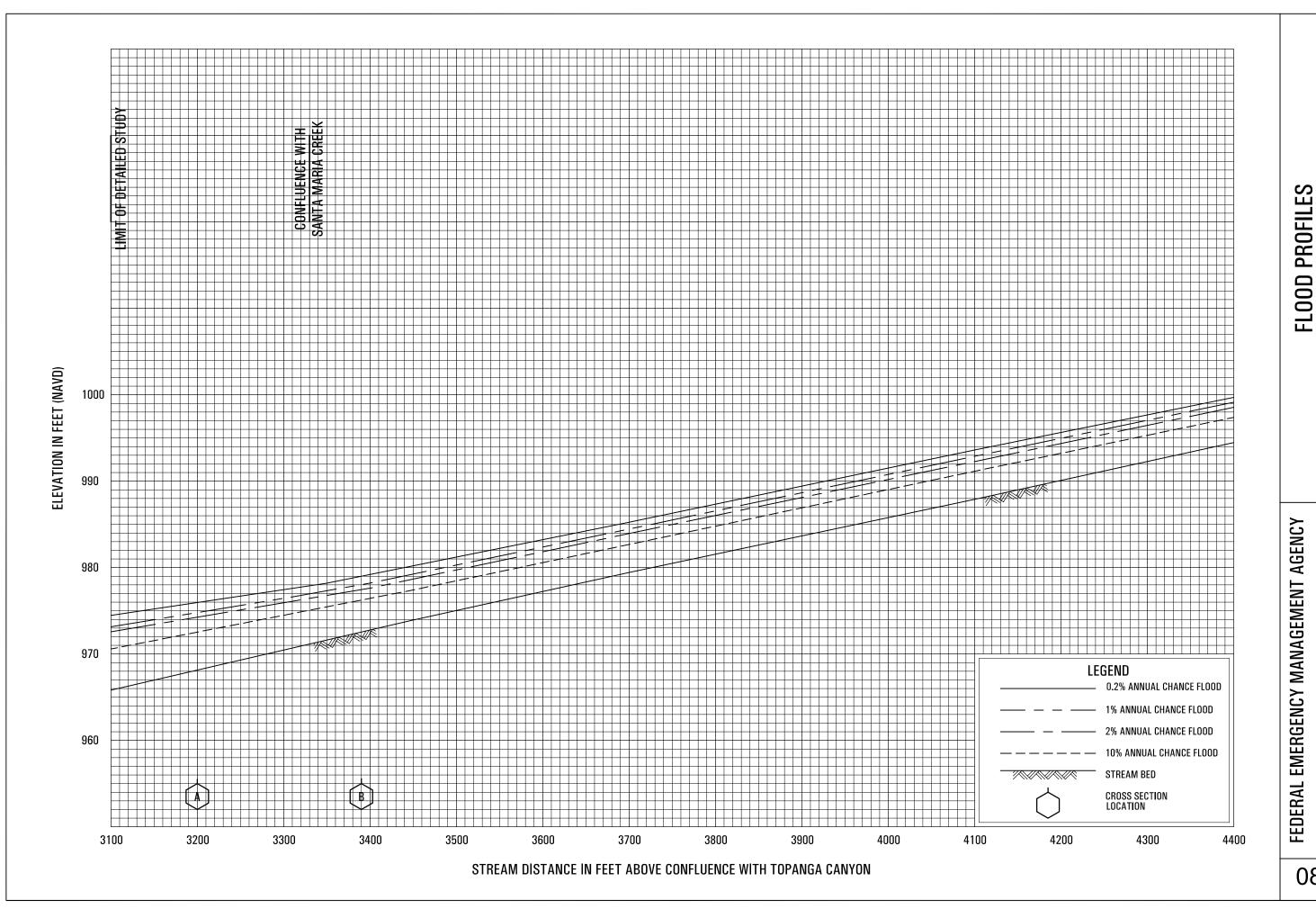
FLOW ALONG EMPIRE AVENUE

FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



FLOWLINE NO.1

LOS ANGELES COUNTY, CA AND INCORPORATED AREAS

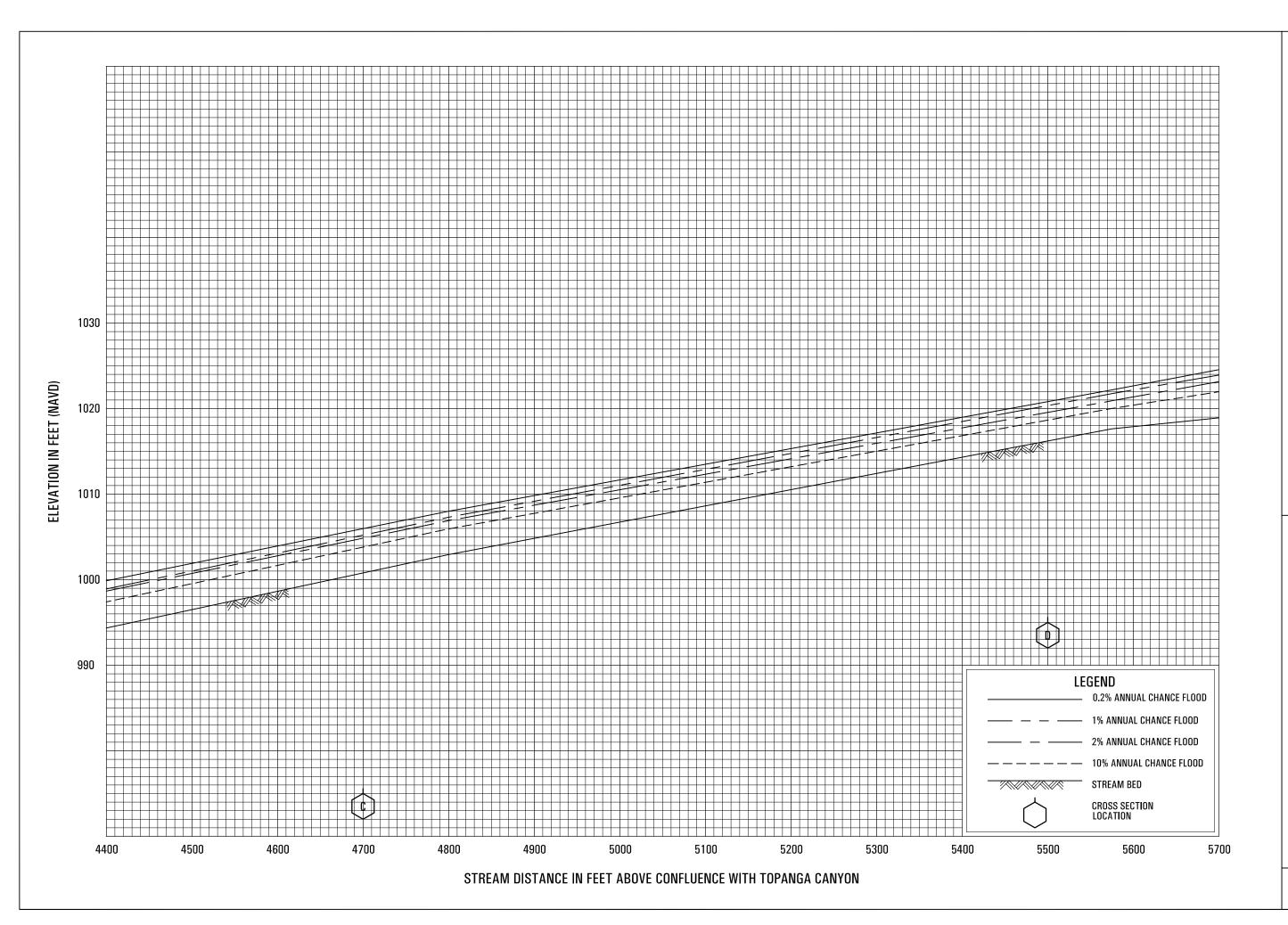


GARAPITO CREEK

088P

LOS ANGELES COUNTY, CA

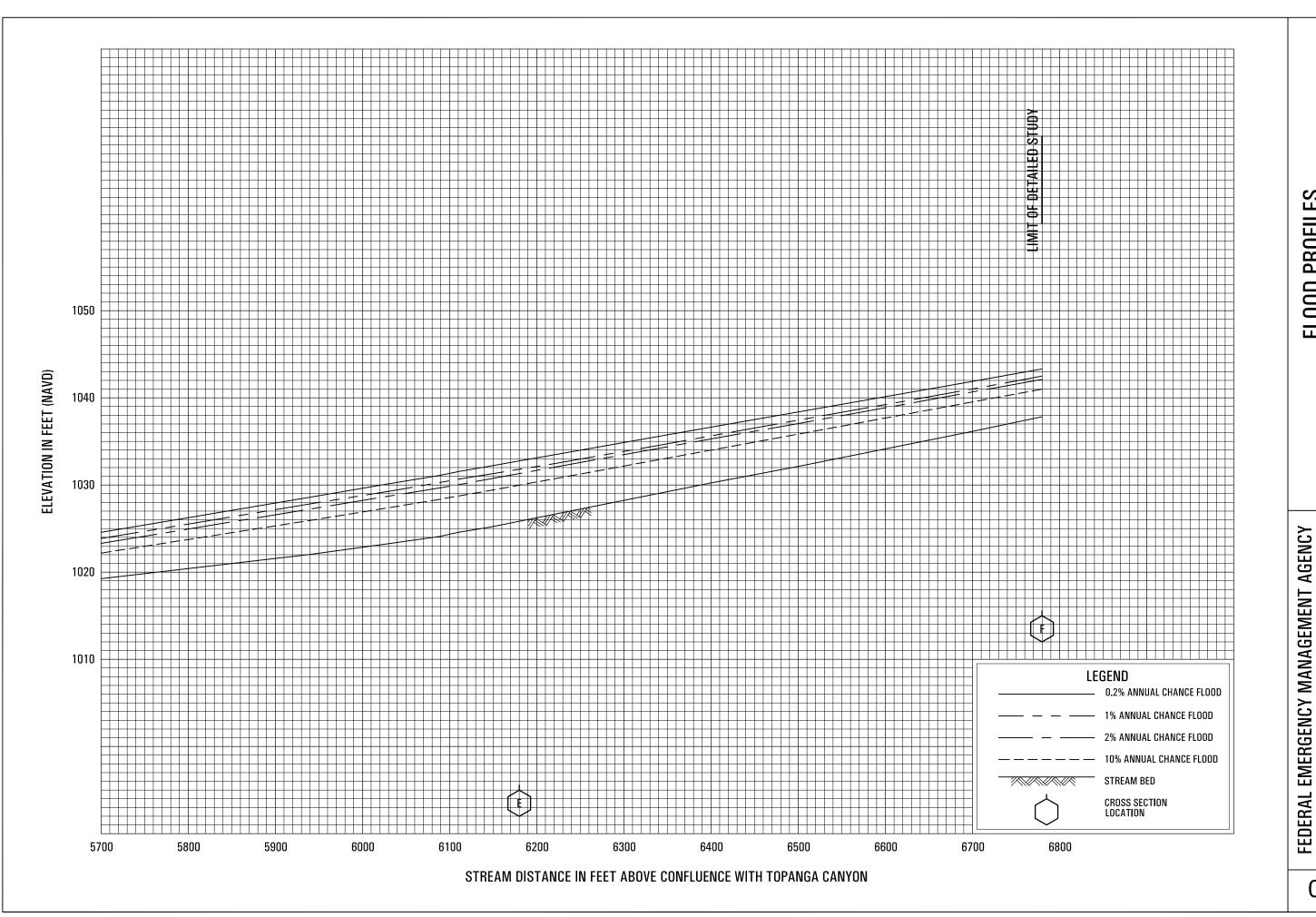
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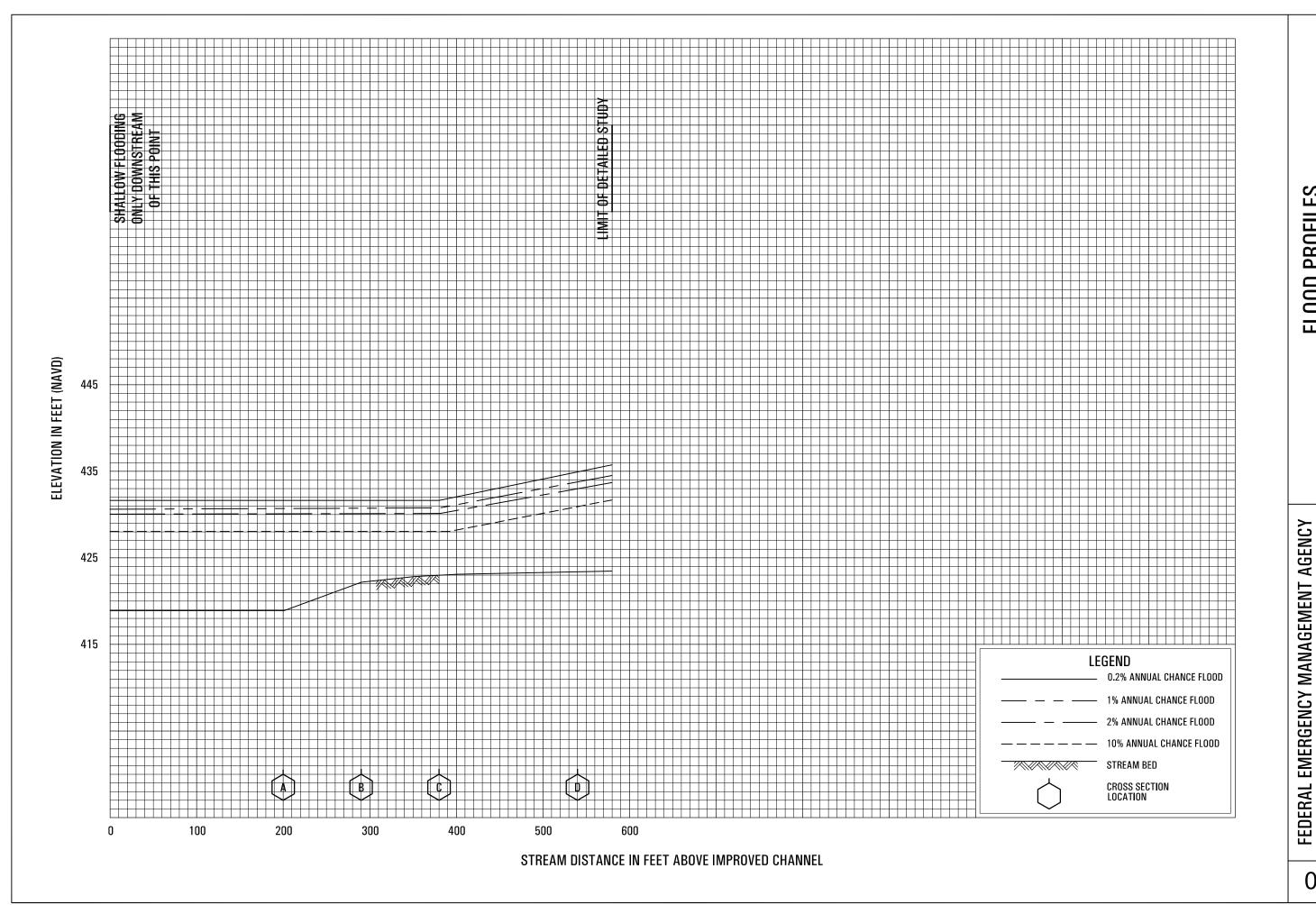
FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CA

AND INCORPORATED AREAS



GARAPITO CREEK

LOS ANGELES COUNTY, CA AND INCORPORATED AREAS



HACIENDA CREEK

091P

LOS ANGELES COUNTY, CA

AND INCORPORATED AREAS

## FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

**VOLUME 6 OF 9** 



# LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
AGOURA HILLS, CITY OF	065072	COMMERCE, CITY OF	060110
ALHAMBRA, CITY OF*	060095	COMPTON, CITY OF	060111
ARCADIA, CITY OF*	065014	COVINA, CITY OF*	065024
ARTESIA, CITY OF*	060097	CUDAHY, CITY OF	060657
AVALON, CITY OF	060098	CULVER CITY, CITY OF	060114
AZUSA, CITY OF	065015	DIAMOND BAR, CITY OF	060741
BALDWIN PARK, CITY OF*	060100	DOWNEY, CITY OF	060645
BELL, CITY OF*	060101	DUARTE, CITY OF*	065026
BELL GARDENS, CITY OF	060656	EL MONTE, CITY OF*	060658
BELLFLOWER, CITY OF	060102	EL SEGUNDO, CITY OF	060118
BEVERLY HILLS, CITY OF*	060655	GARDENA, CITY OF	060119
BRADBURY, CITY OF*	065017	GLENDALE, CITY OF	065030
BURBANK, CITY OF	065018	GLENDORA, CITY OF*	065031
CALABASAS, CITY OF	060749	HAWAIIAN GARDENS, CITY OF*	065032
CARSON, CITY OF	060107	HAWTHORNE, CITY OF*	060123
CERRITOS, CITY OF	060108	HERMOSA BEACH, CITY OF	060124
CLAREMONT, CITY OF*	060109	HIDDEN HILLS, CITY OF	060125

^{*}No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

FLOOD INSURANCE STUDY NUMBER **06037CV006F** 

Version Number 2.3.3.2



COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
HUNTINGTON PARK, CITY OF*	060126	PICO RIVERA, CITY OF	060148
INDUSTRY, CITY OF*	065035	POMONA, CITY OF*	060149
INGLEWOOD, CITY OF*	065036	RANCHO PALOS VERDES, CITY OF	060464
IRWINDALE, CITY OF*	060129	REDONDO BEACH, CITY OF	060150
LA CANADA FLINTRIDGE, CITY OF*	060669	ROLLING HILLS, CITY OF*	060151
LA HABRA HEIGHTS, CITY OF*	060701	ROLLING HILLS ESTATES, CITY OF*	065054
LA MIRADA, CITY OF	060131	ROSEMEAD, CITY OF*	060153
LA PUENTE*, CITY OF	065039	SAN DIMAS, CITY OF	060154
LA VERNE, CITY OF	060133	SAN FERNANDO, CITY OF	060628
LAKEWOOD, CITY OF	060130	SAN GABRIEL, CITY OF*	065055
LANCASTER, CITY OF	060672	SAN MARINO, CITY OF*	065057
LAWNDALE, CITY OF*	060134	SANTA CLARITA, CITY OF	060729
LOMITA, CITY OF*	060135	SANTA FE SPRINGS, CITY OF	060158
LONG BEACH, CITY OF	060136	SANTA MONICA, CITY OF	060159
LOS ANGELES, CITY OF	060137	SIERRA MADRE, CITY OF*	065059
LOS ANGELES COUNTY UNINCORPORATED AREAS	065043	SIGNAL HILL, CITY OF*	060161
LYNWOOD, CITY OF	060635	SOUTH EL MONTE, CITY OF*	060162
MALIBU, CITY OF	060745	SOUTH GATE, CITY OF	060163
MANHATTAN BEACH, CITY OF	060138	SOUTH PASADENA, CITY OF*	065061
MAYWOOD, CITY OF*	060651	TEMPLE CITY, CITY OF*	060653
MONROVIA, CITY OF*	065046	TORRANCE, CITY OF	060165
MONTEBELLO, CITY OF	060141	VERNON, CITY OF*	060166
MONTEREY PARK, CITY OF*	065047	WALNUT, CITY OF*	065069
NORWALK, CITY OF	060652	WEST COVINA, CITY OF	060666
PALMDALE, CITY OF	060144	WEST HOLLYWOOD, CITY OF*	060720
PALOS VERDES ESTATES, CITY OF	060145	WESTLAKE VILLAGE, CITY OF	060744
PARAMOUNT, CITY OF	065049	WHITTIER, CITY OF	060169
PASADENA, CITY OF*	065050		

^{*}No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

### FLOOD INSURANCE STUDY NUMBER **06037CV006F**

Version Number 2.3.3.2



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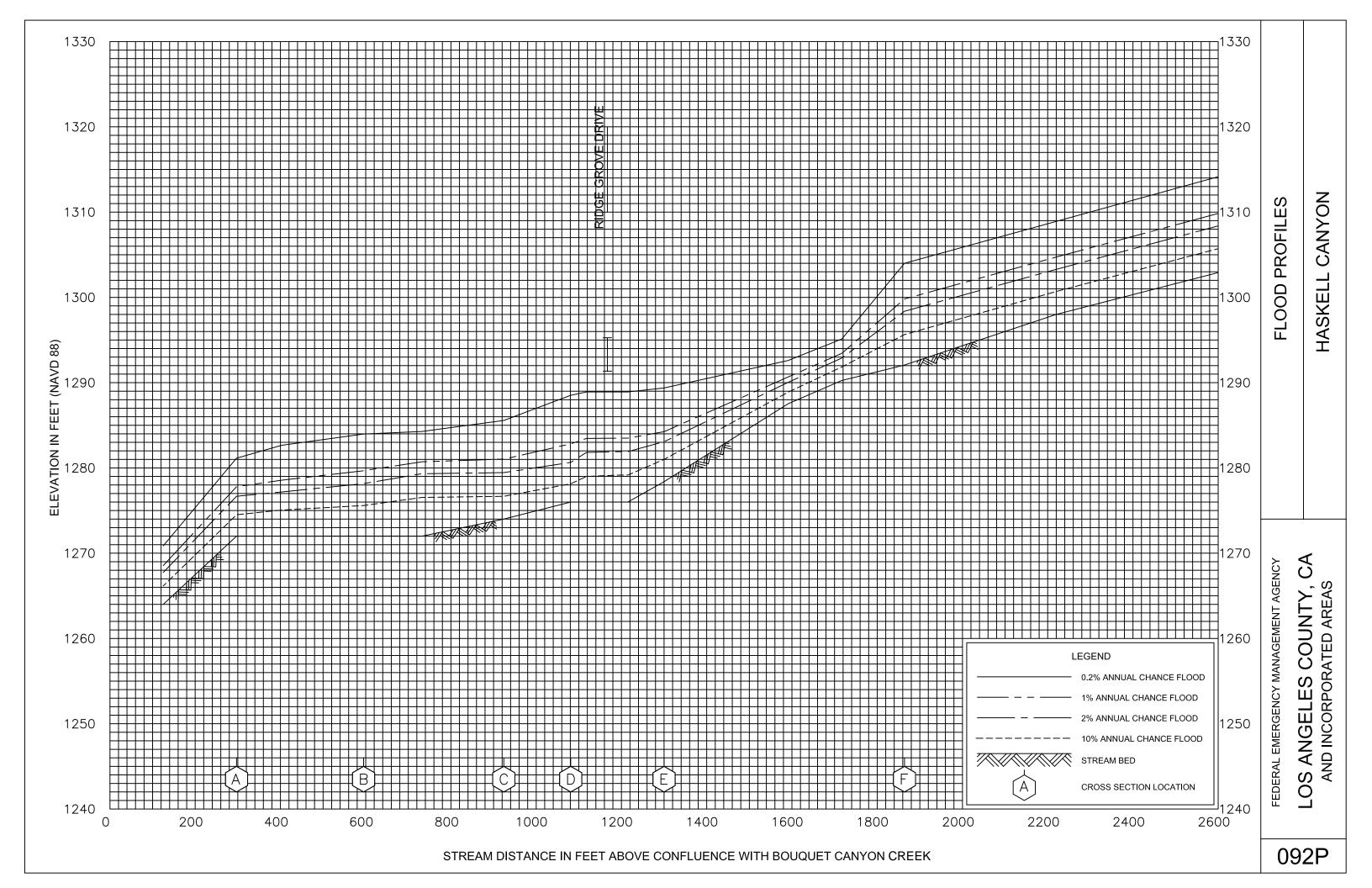
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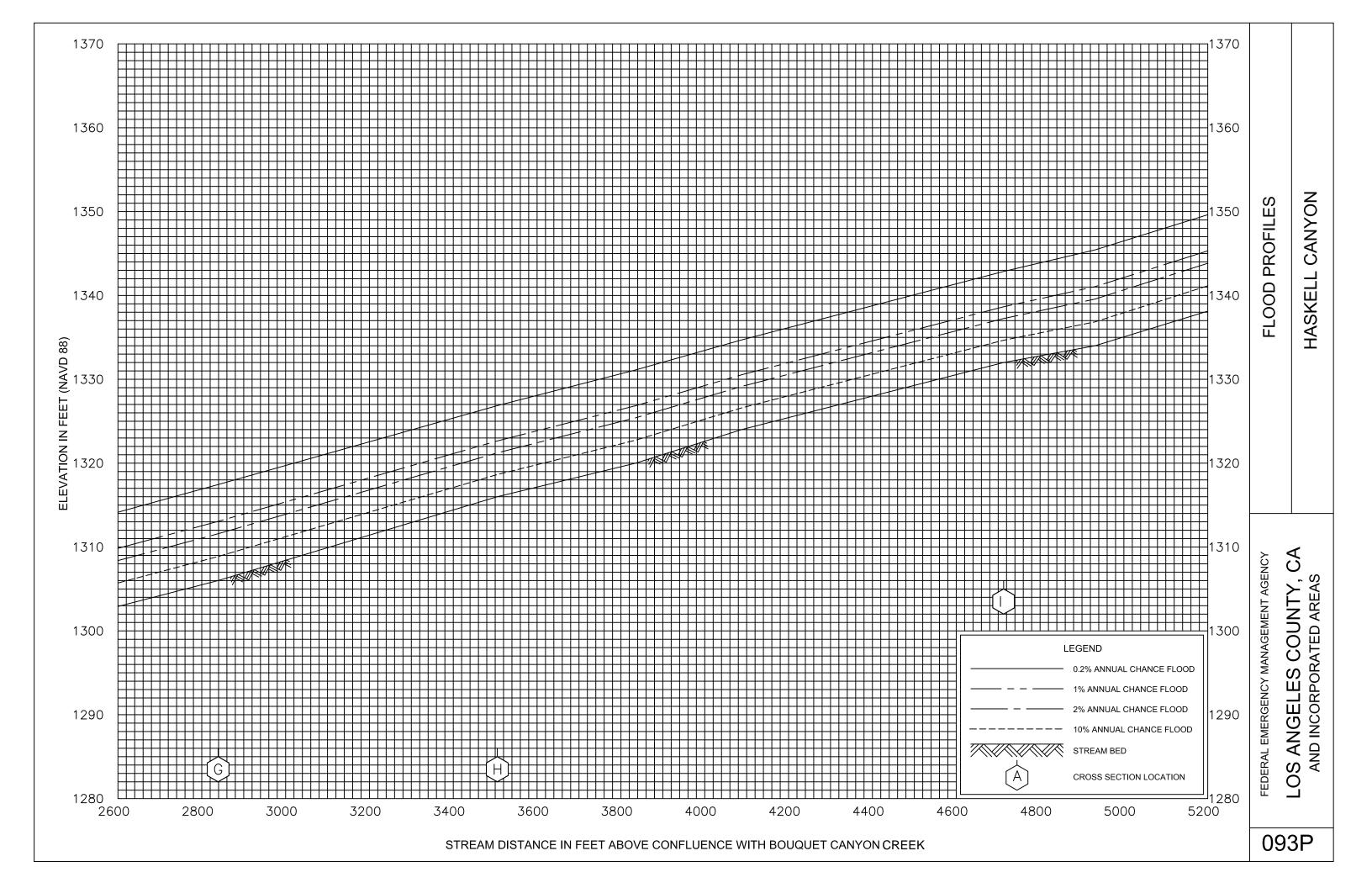
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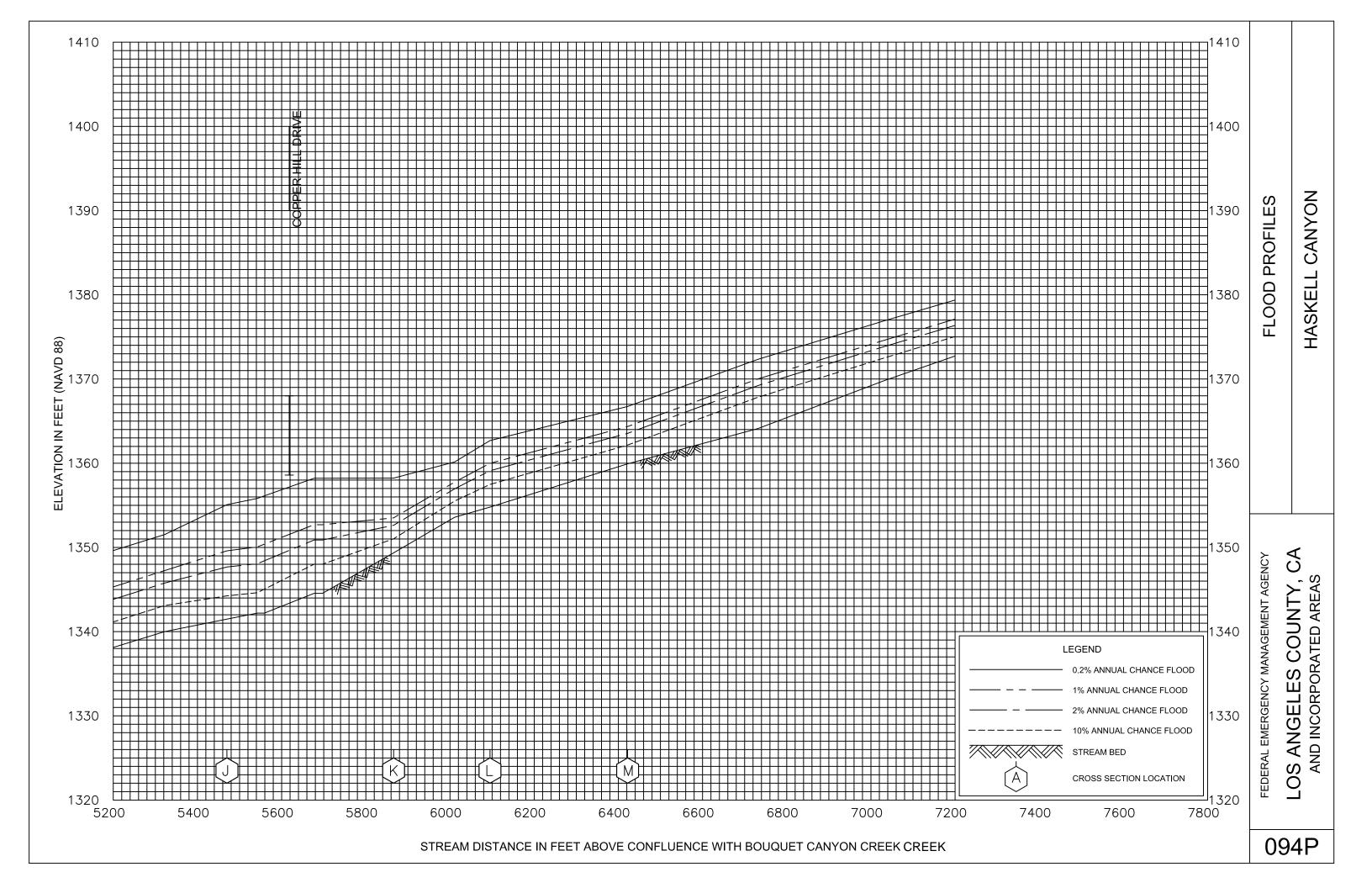
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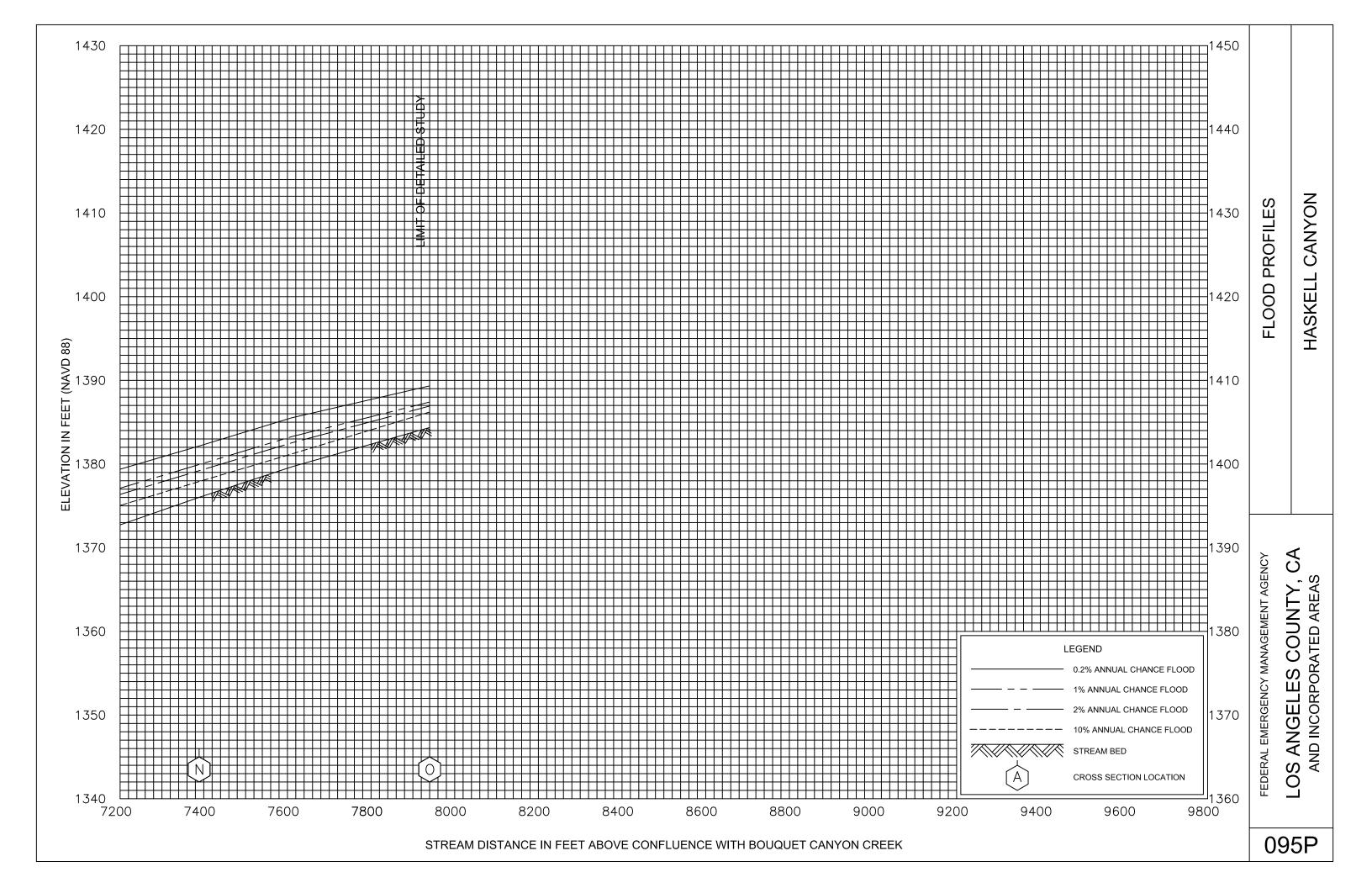
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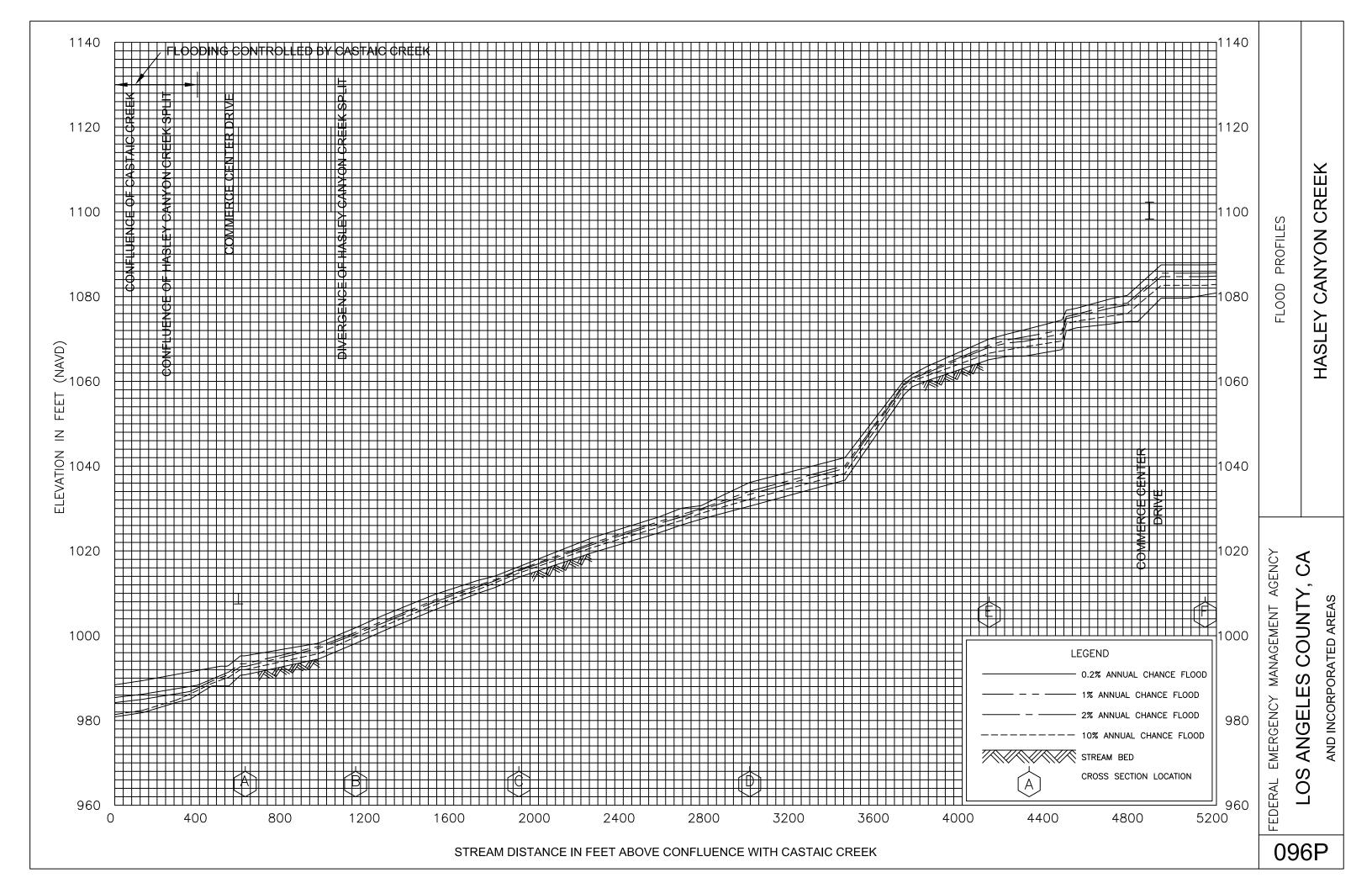
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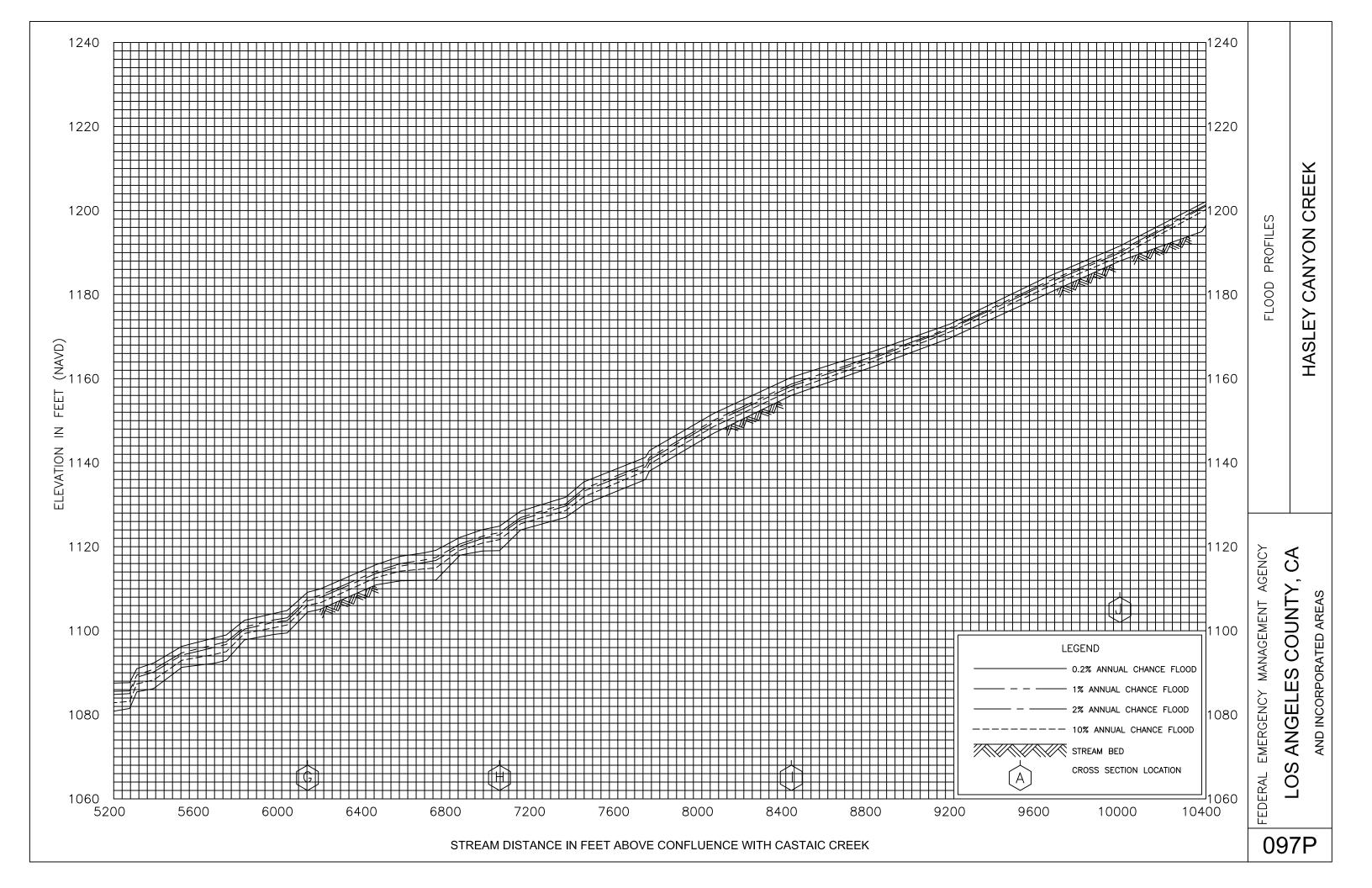


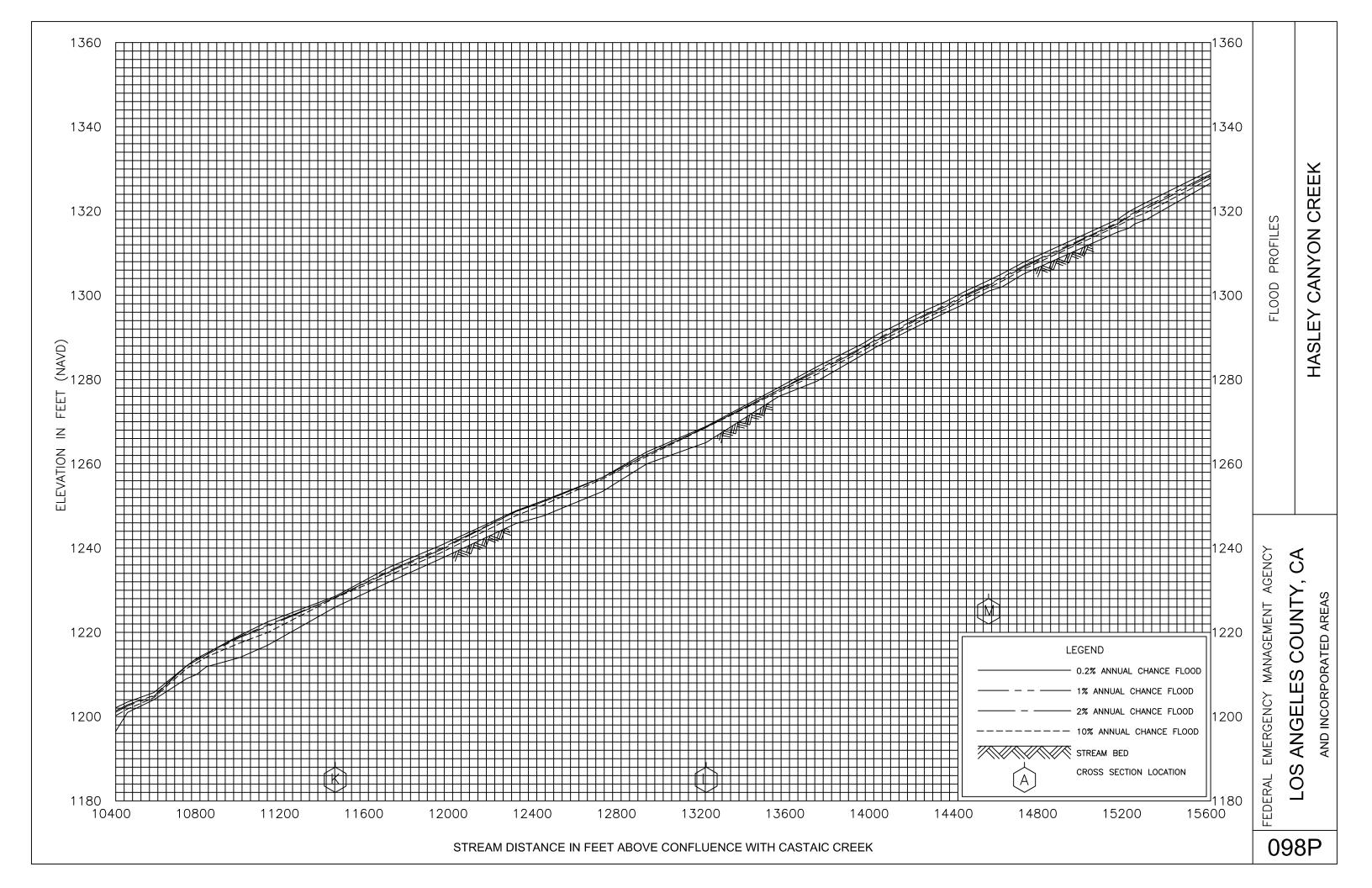


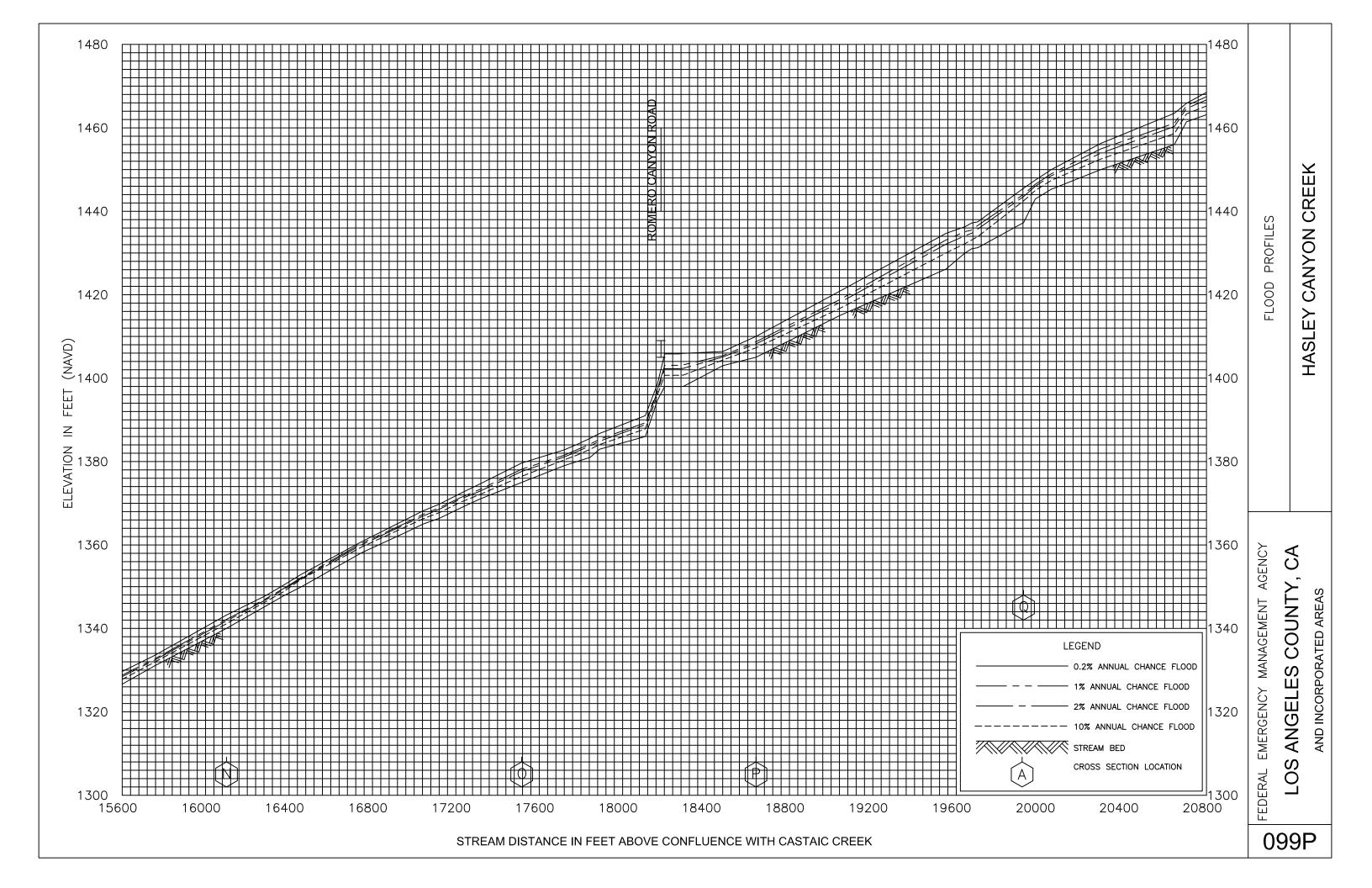


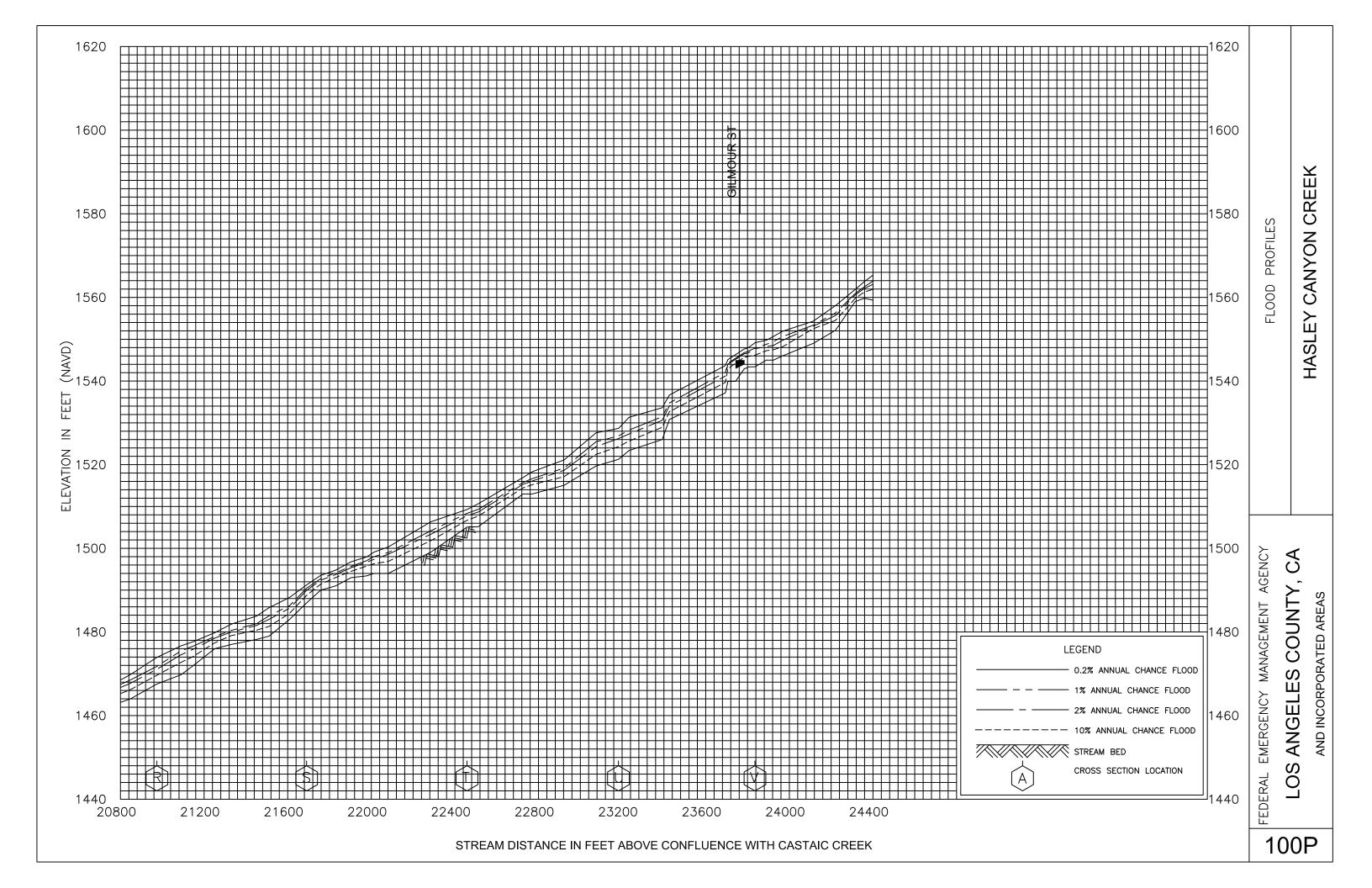


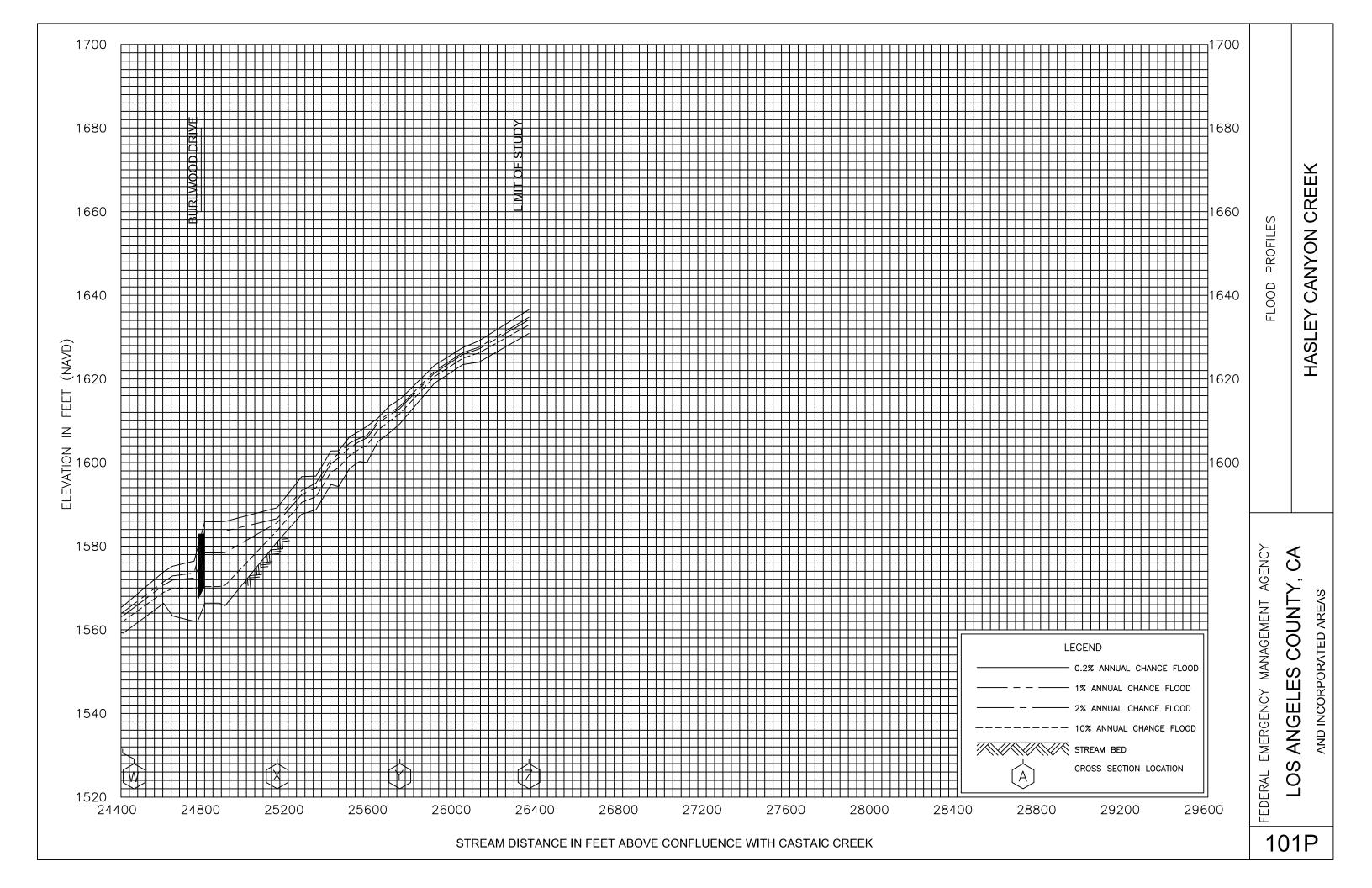


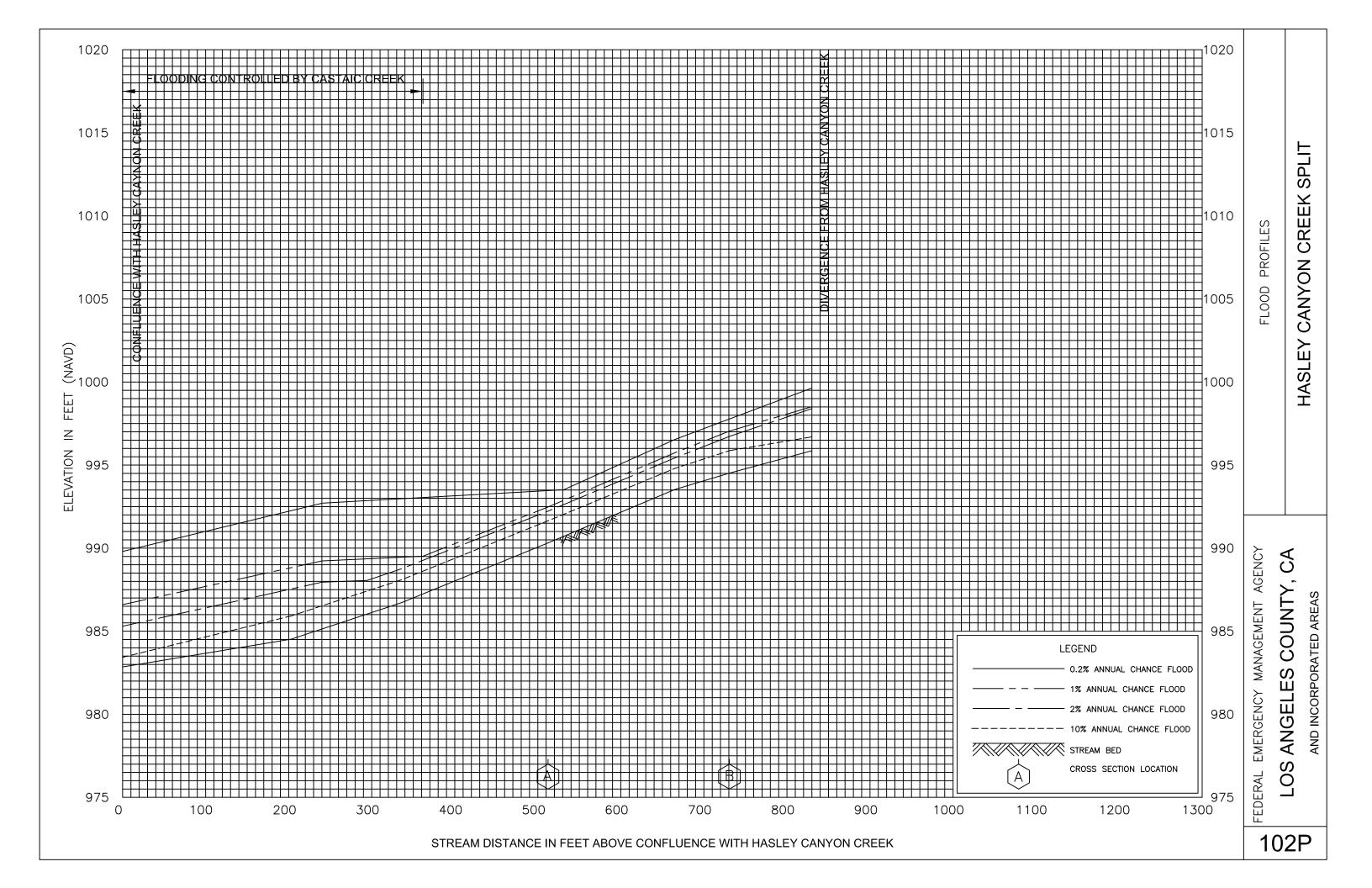


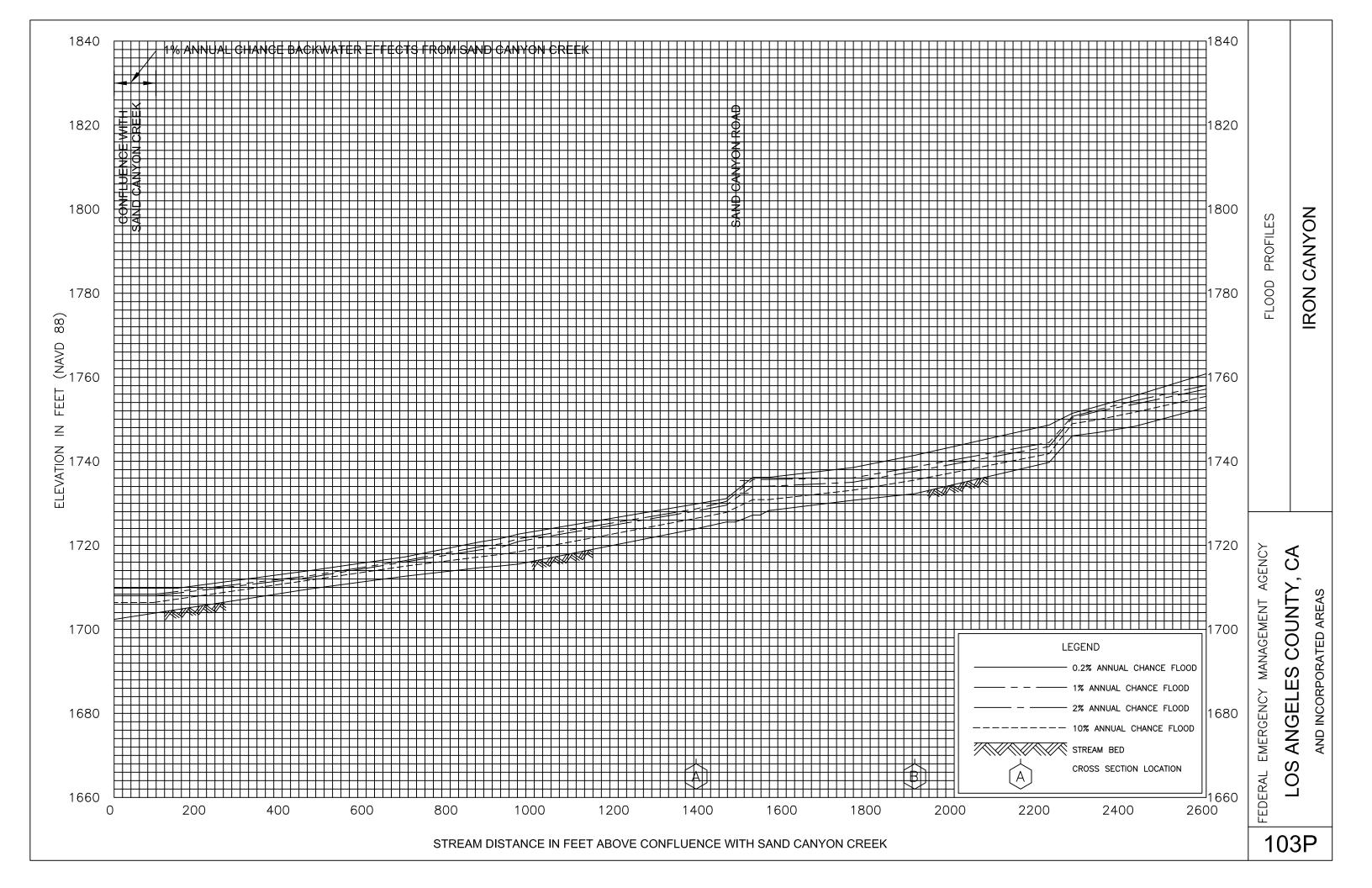


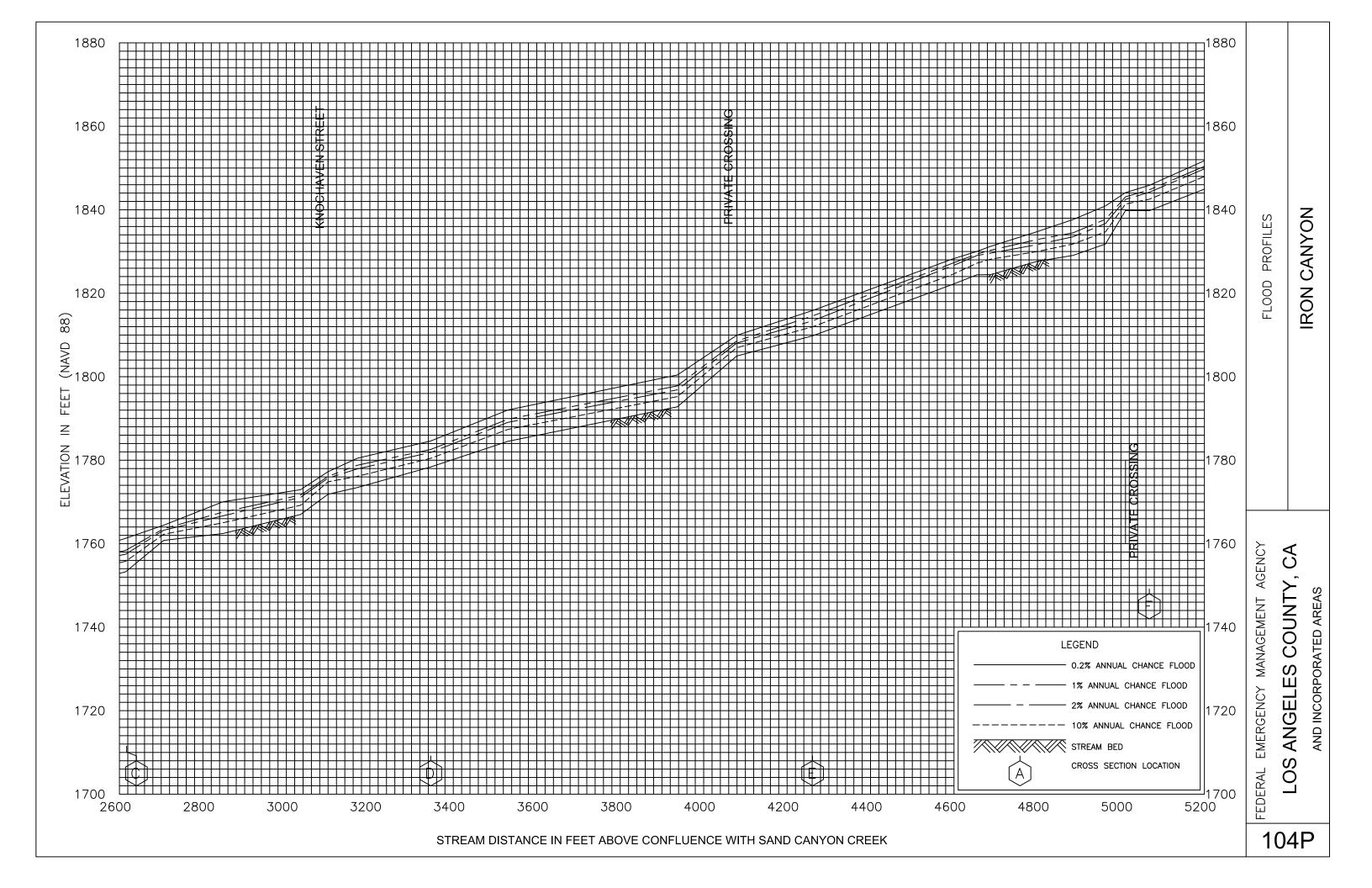


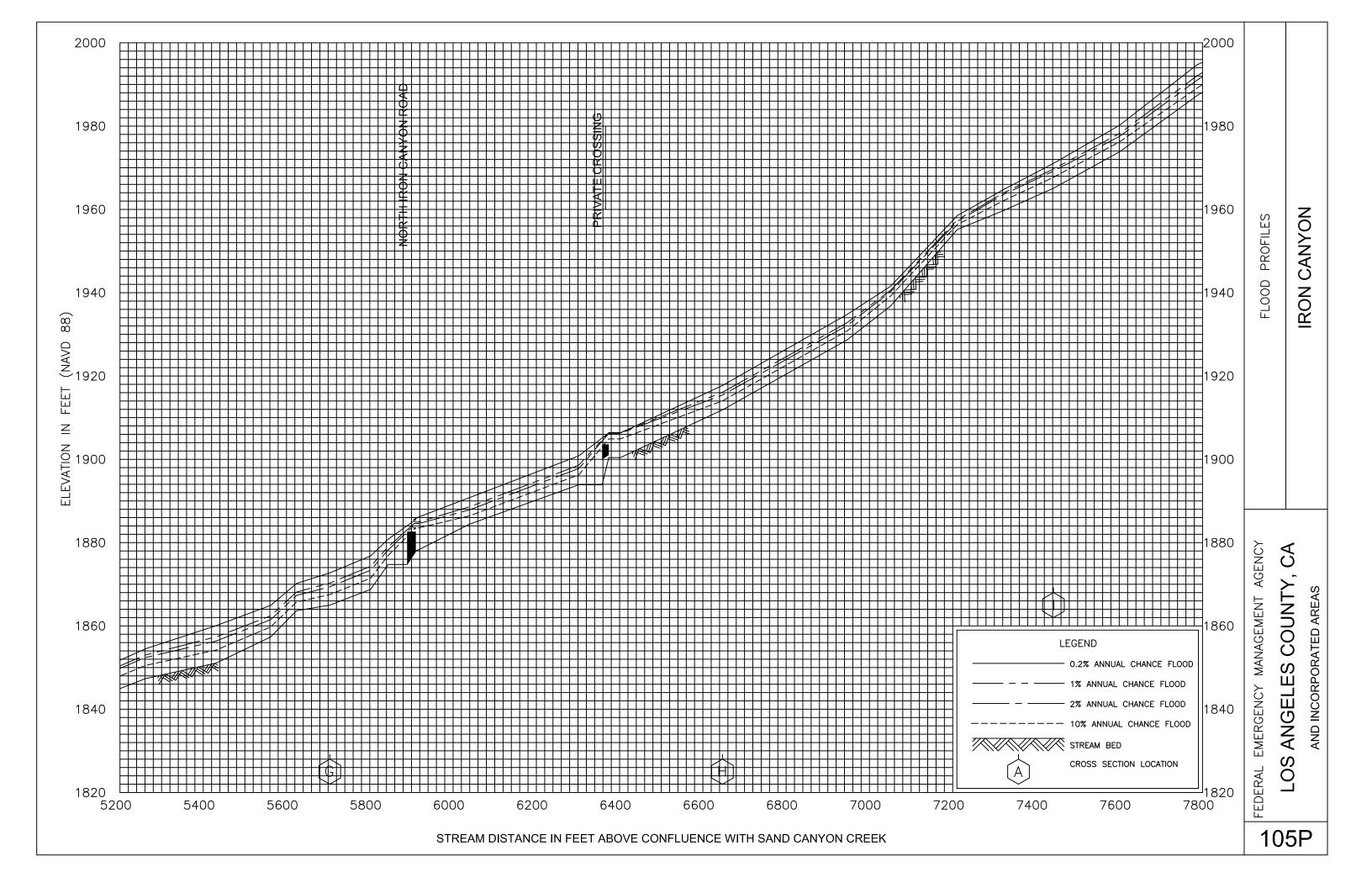


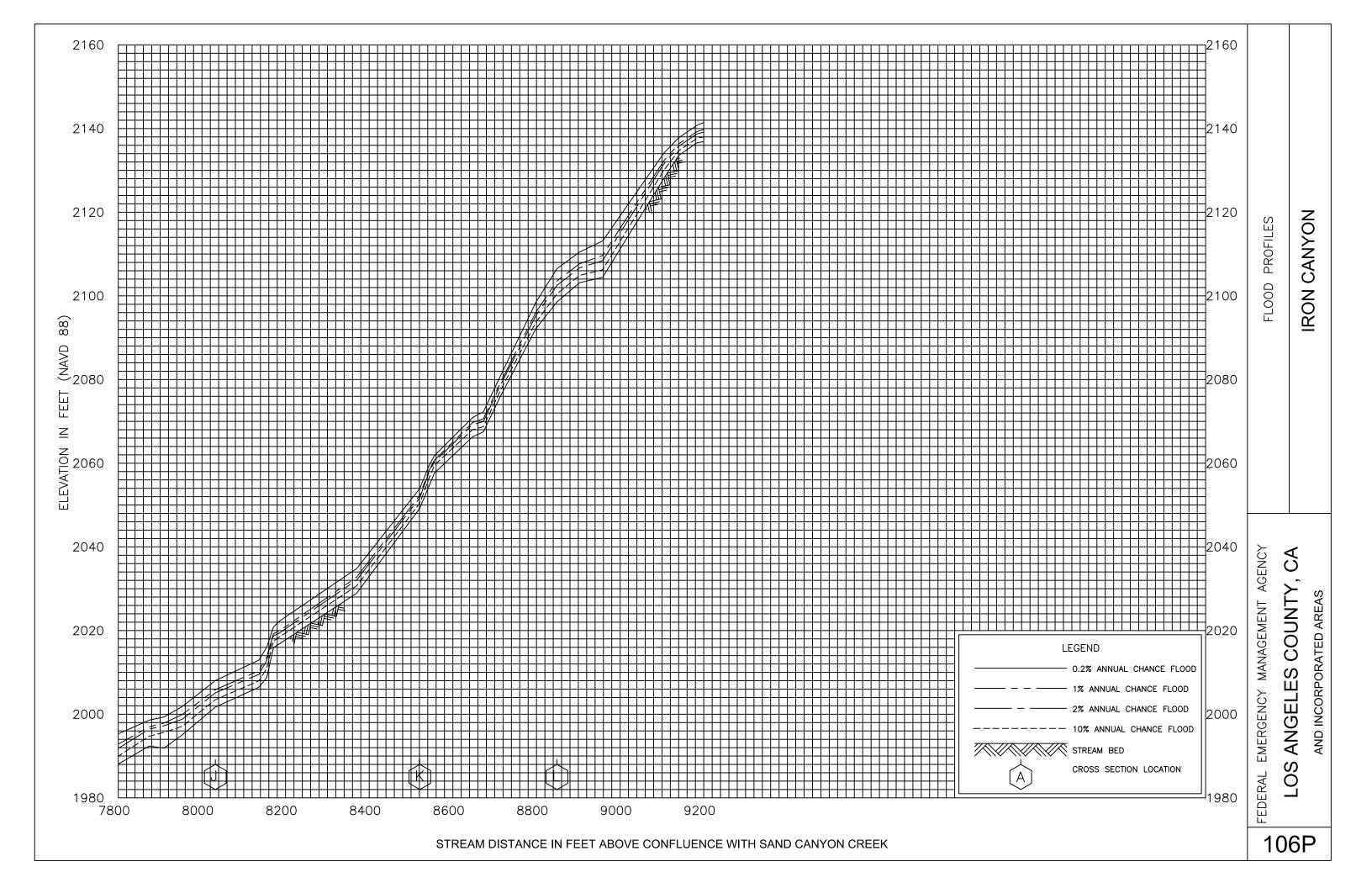


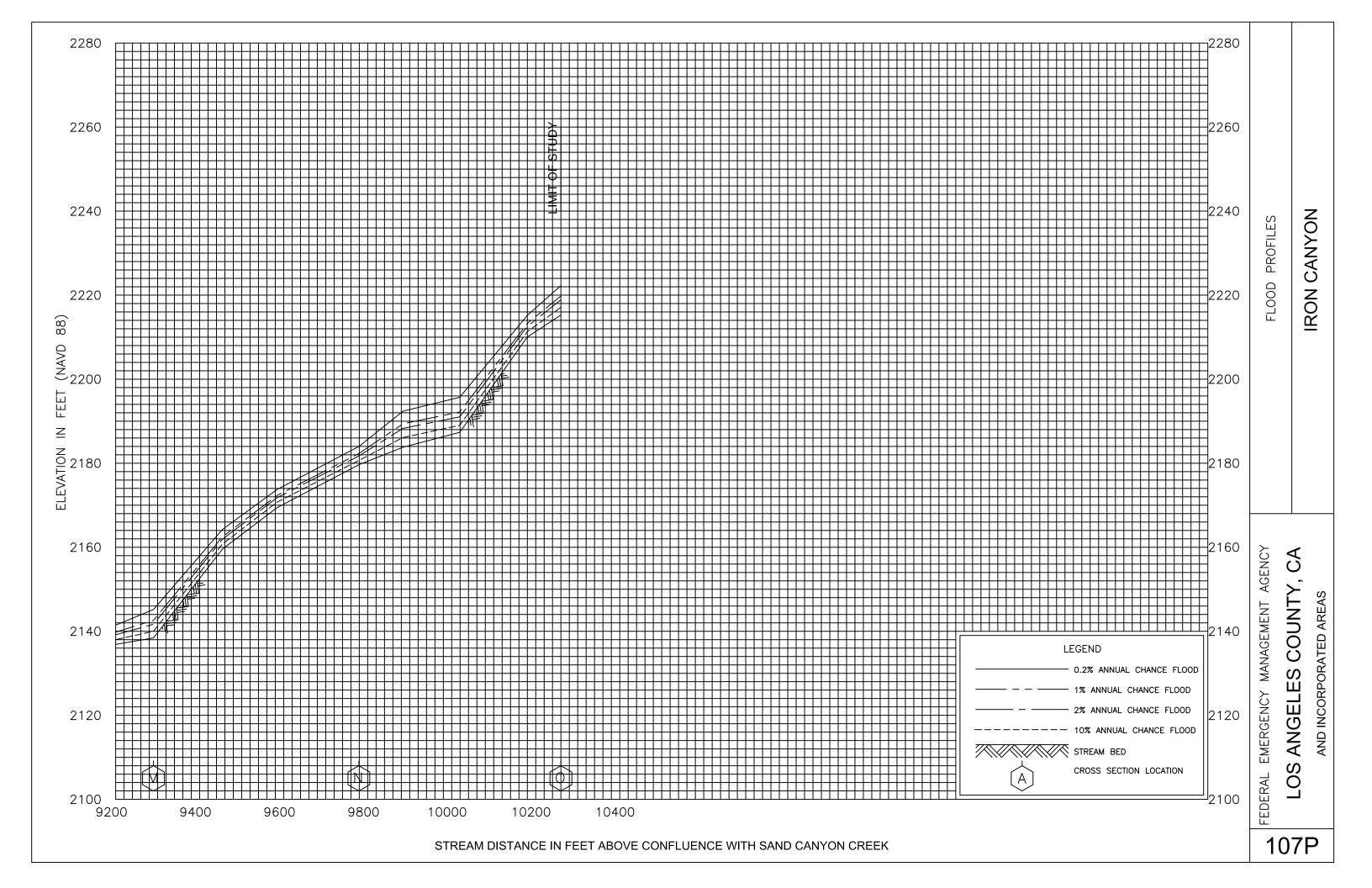


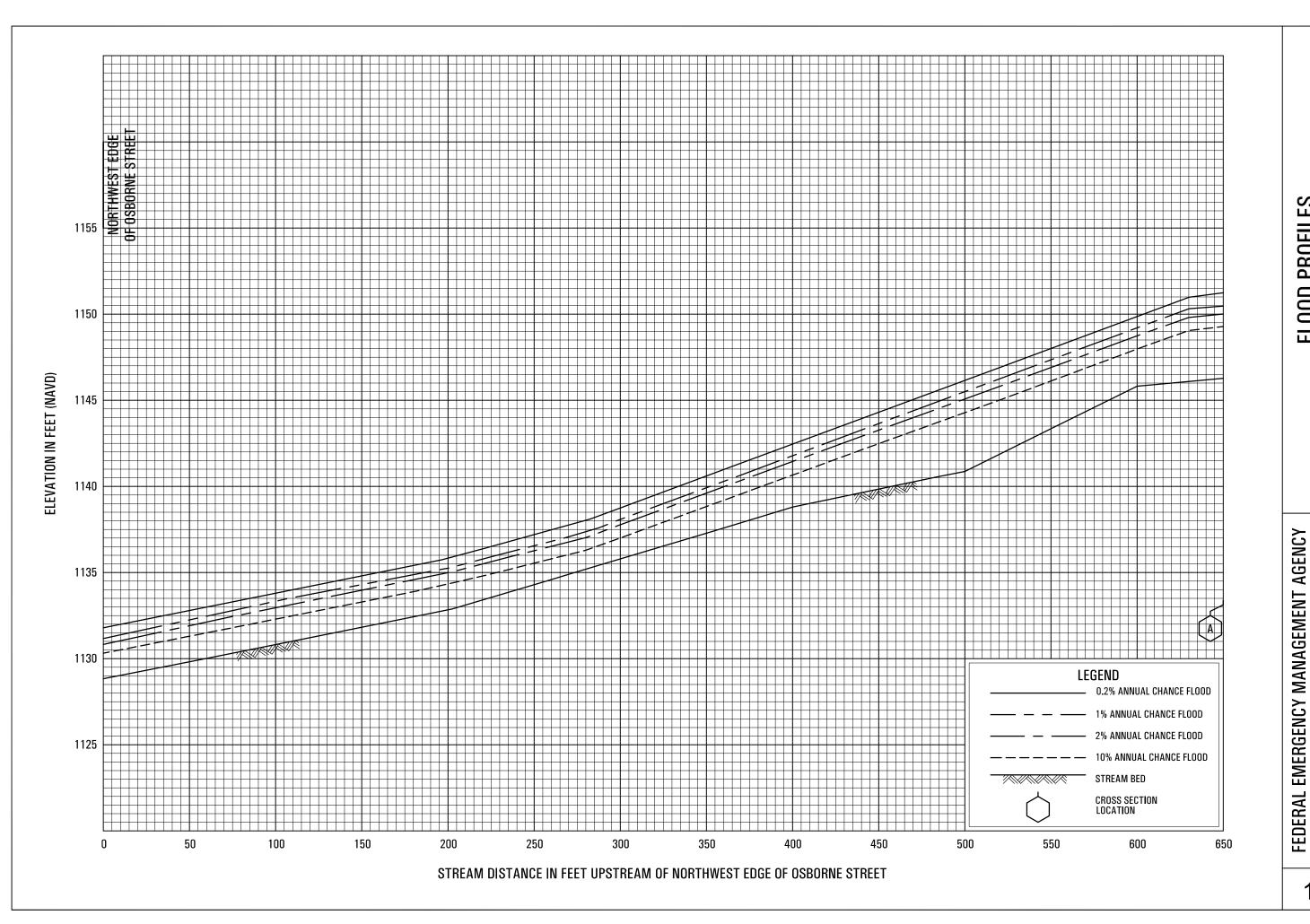










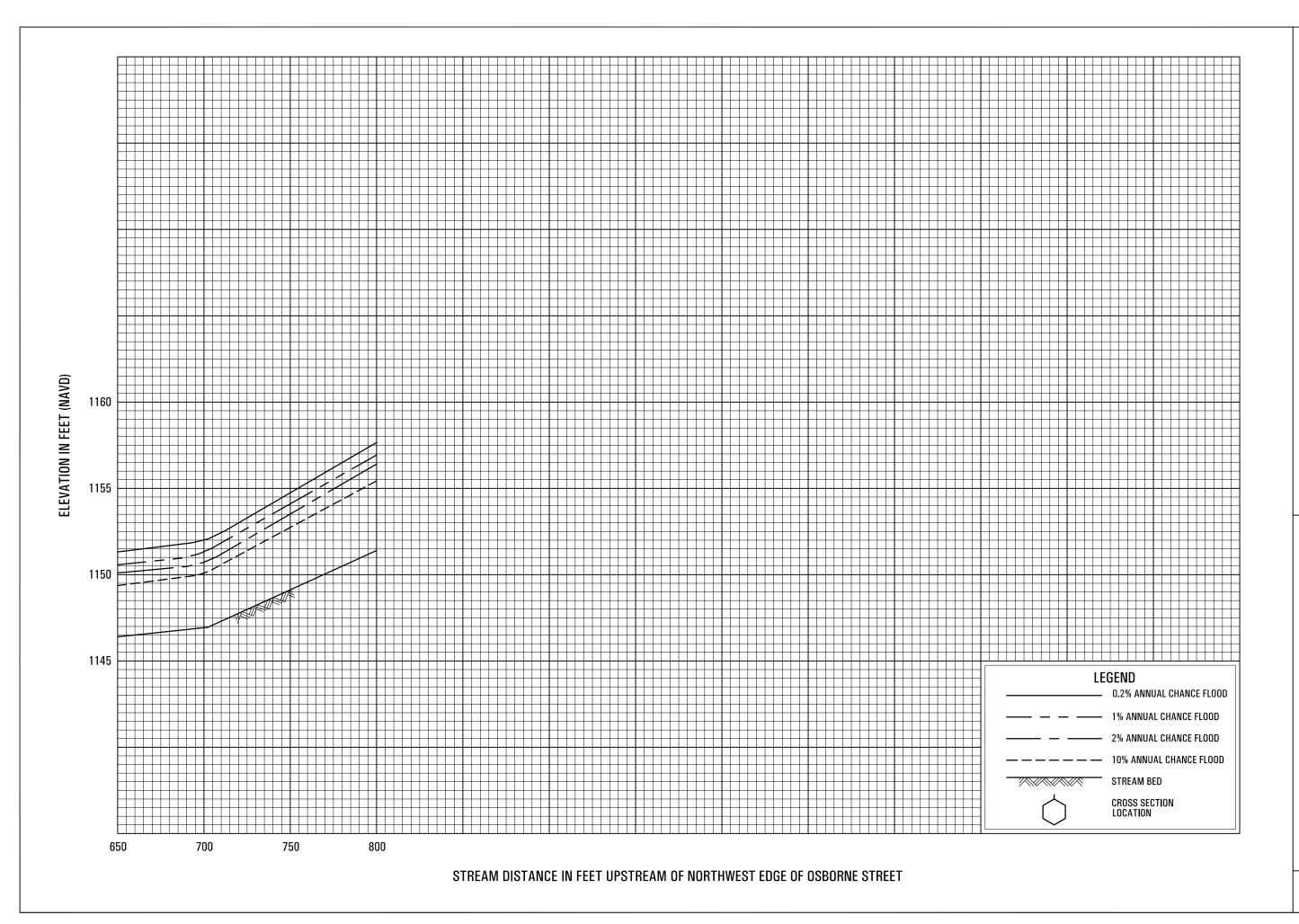


KAGEL CANYON

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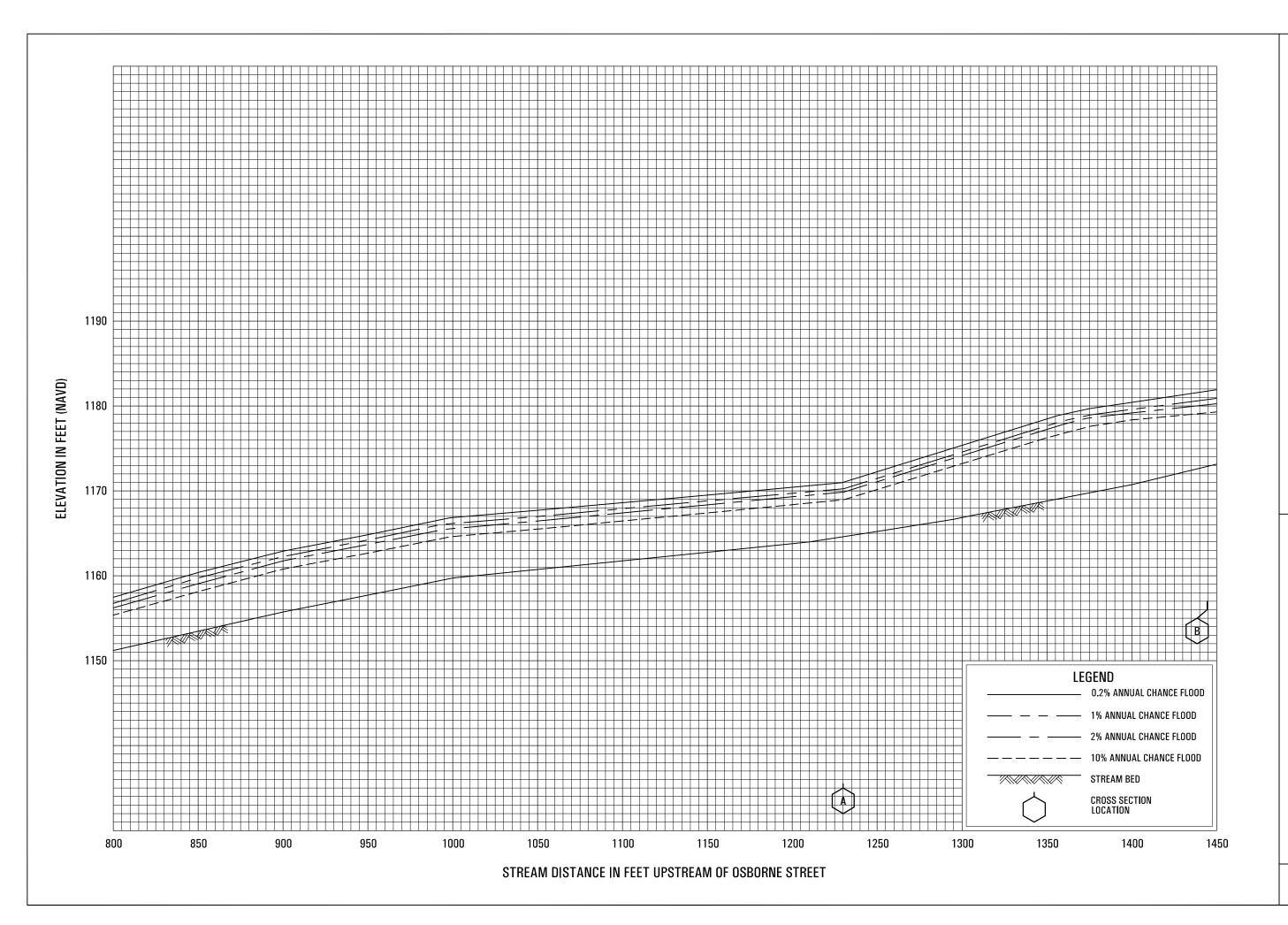
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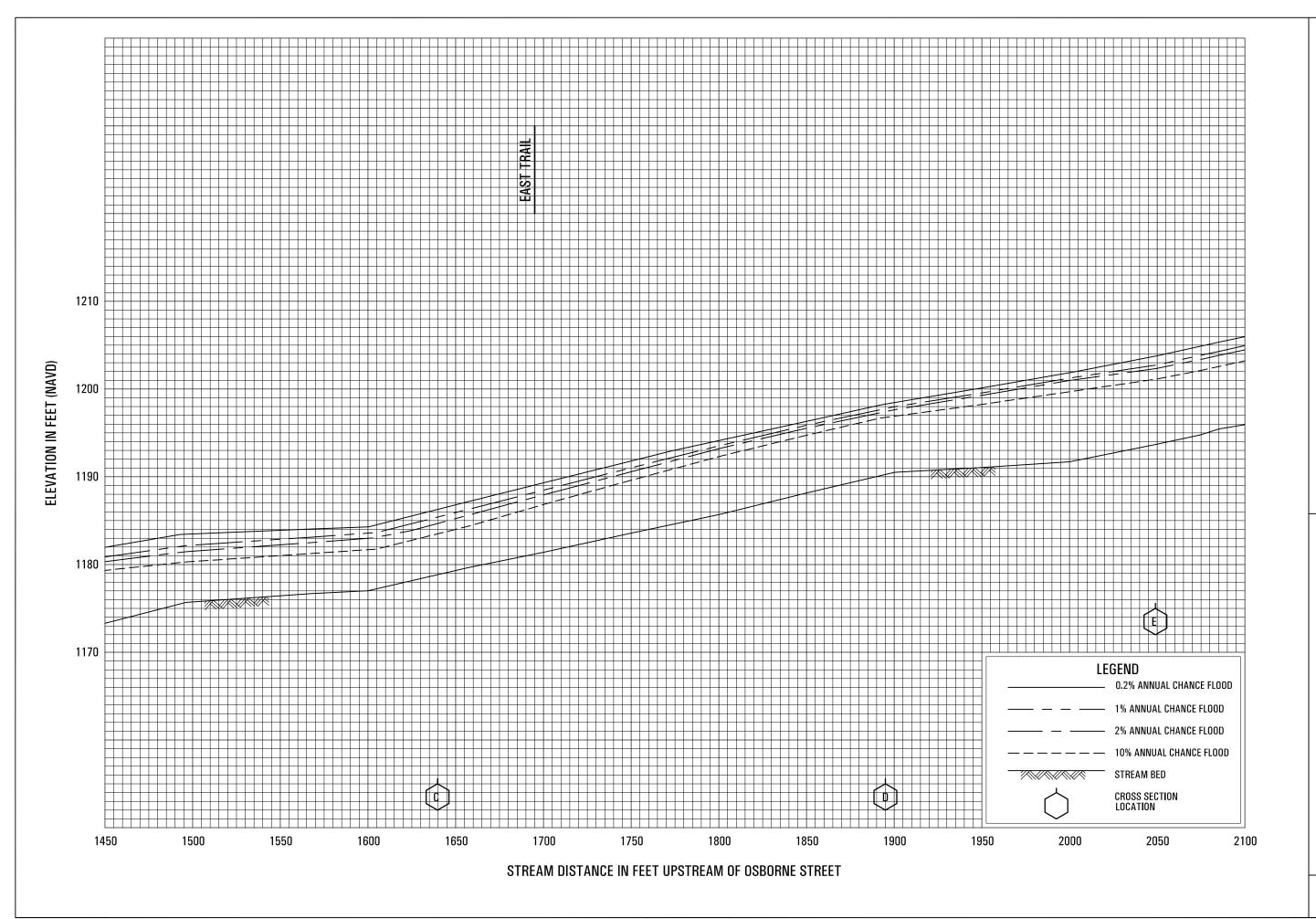
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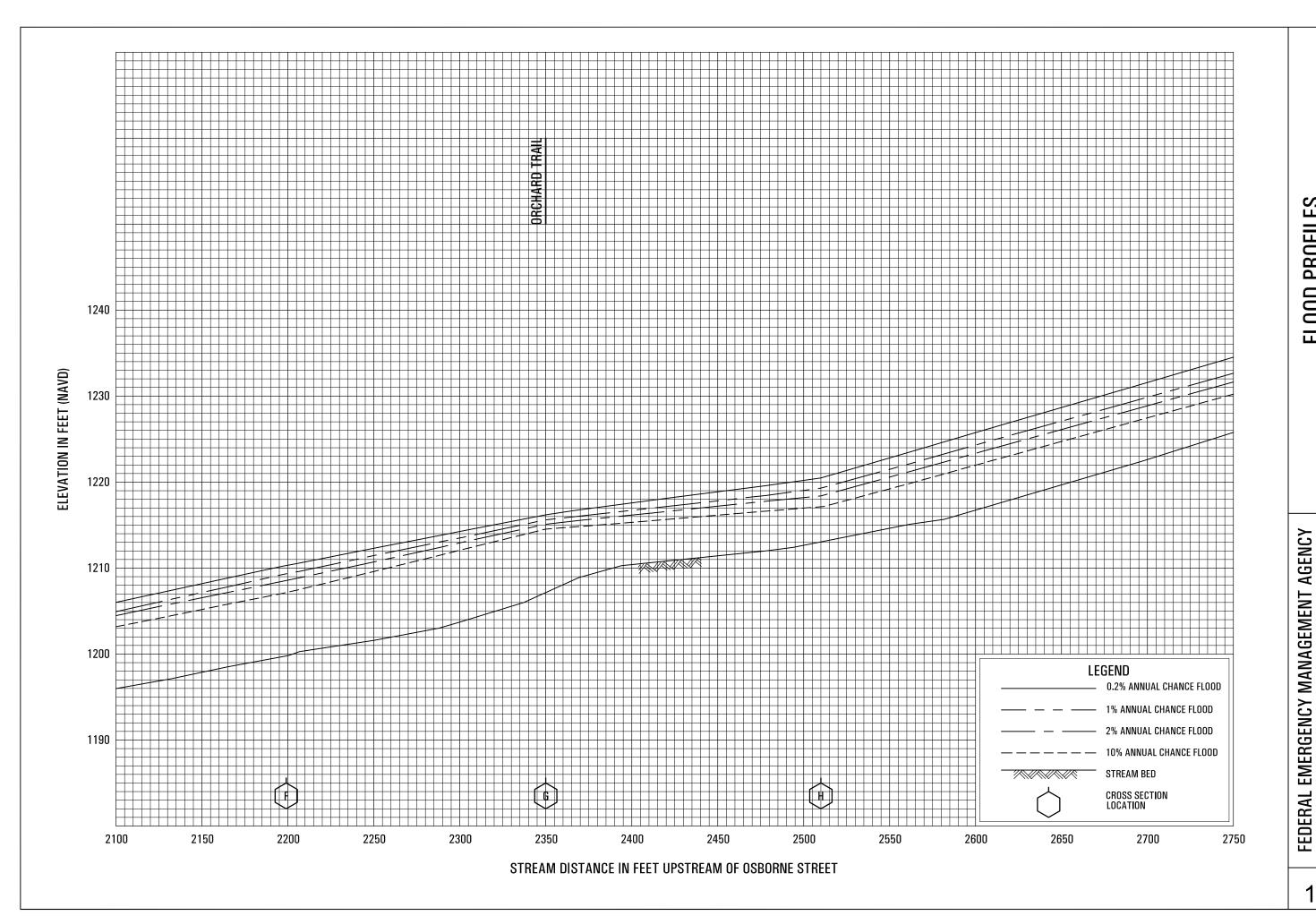
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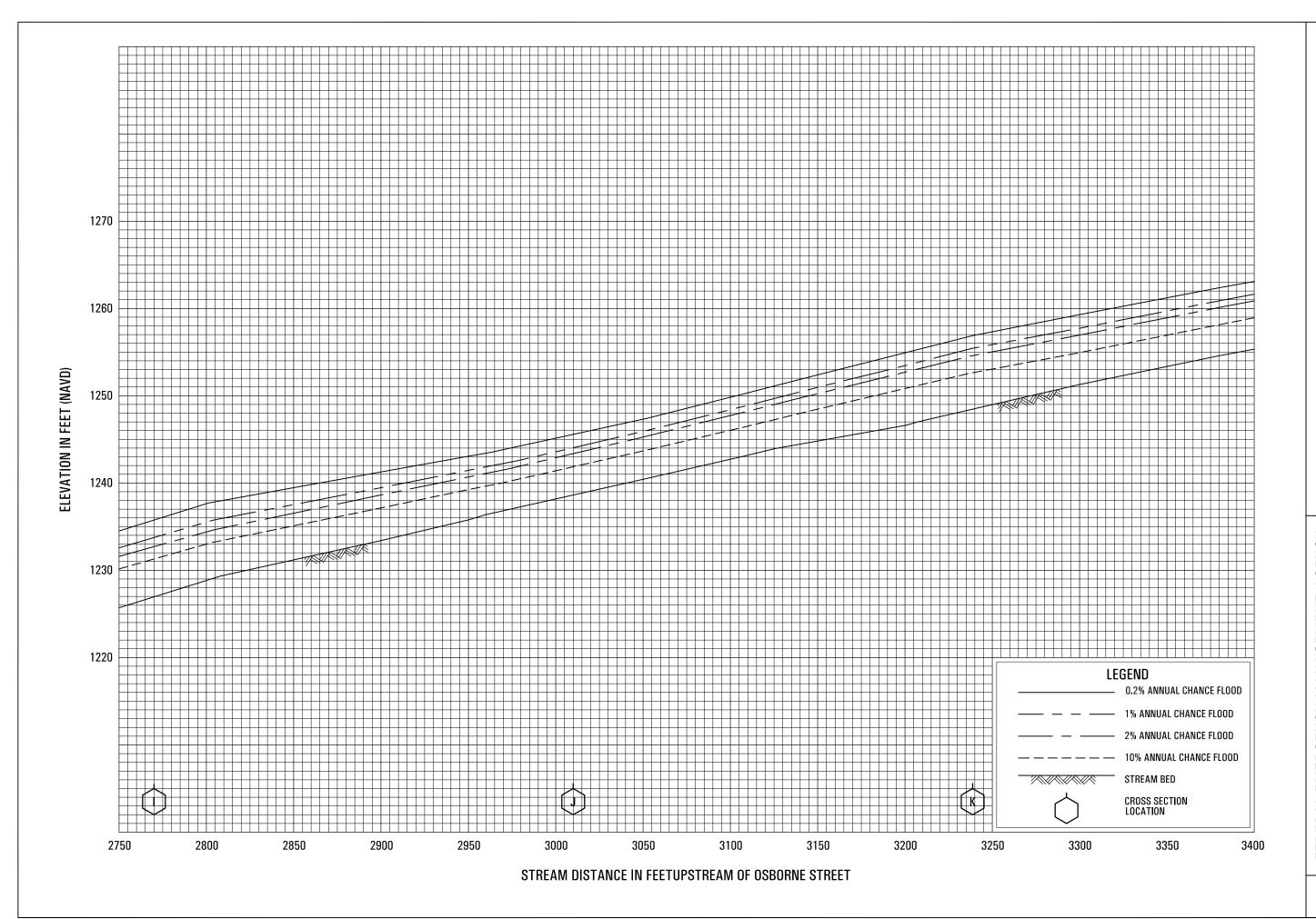
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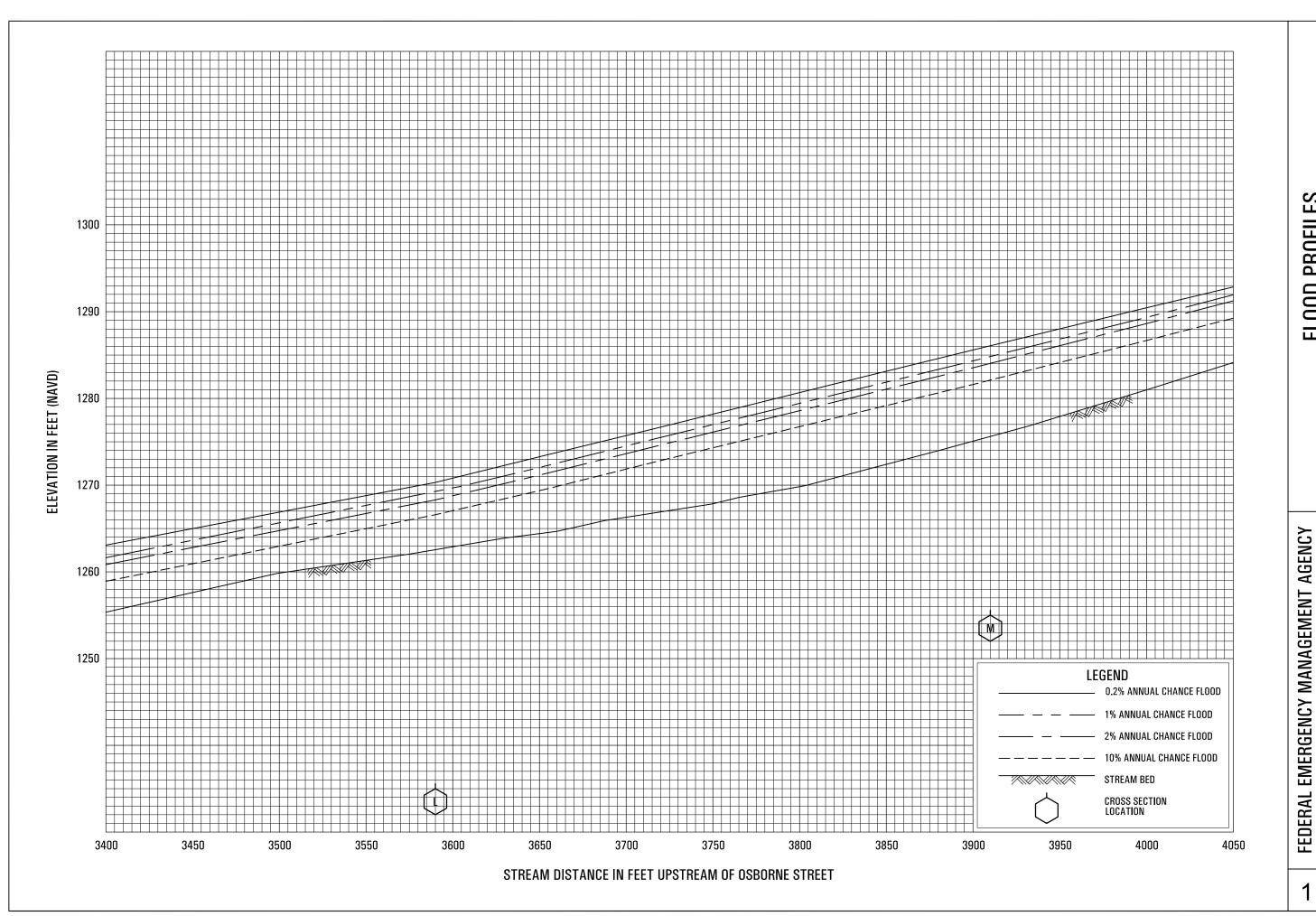
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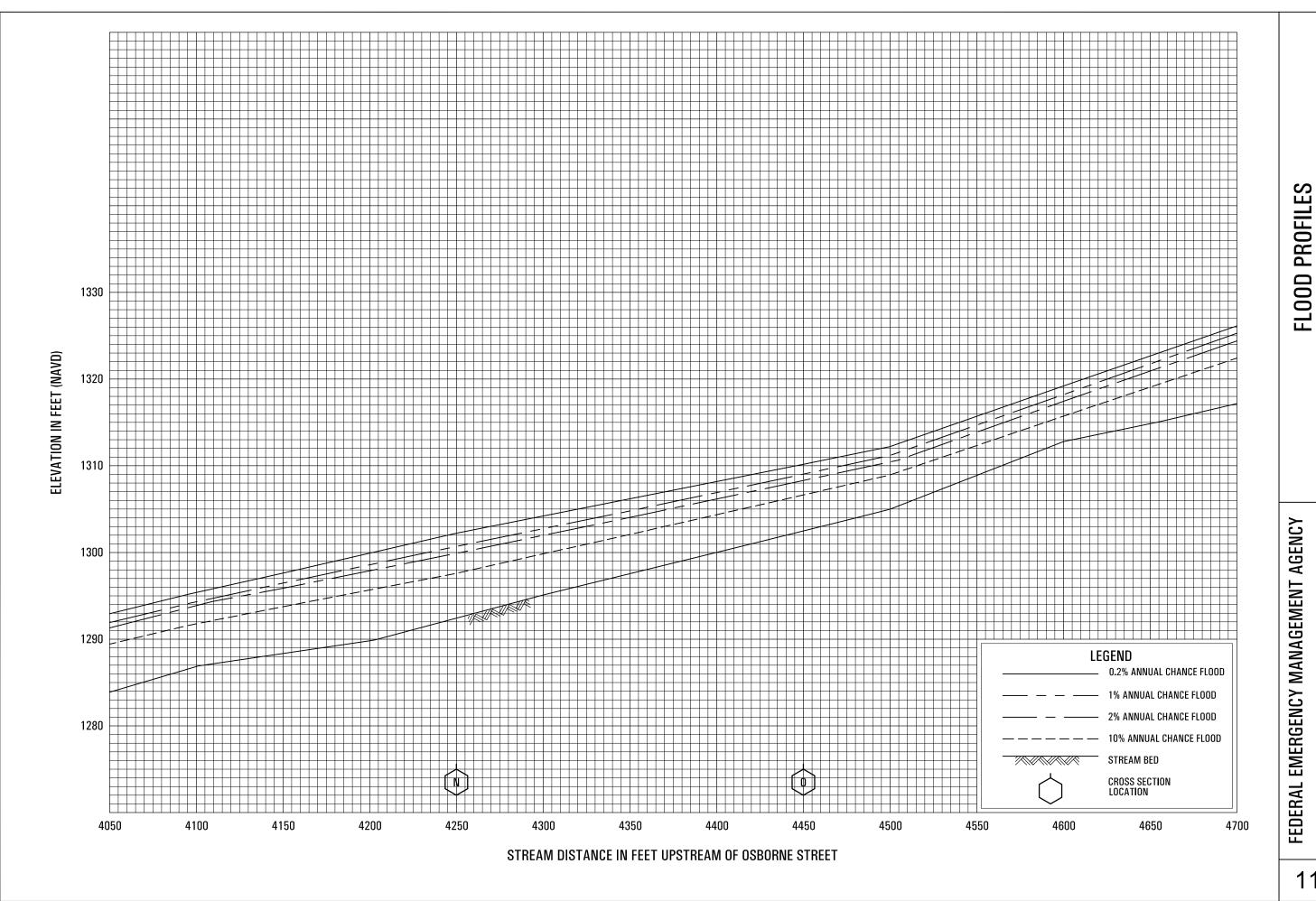
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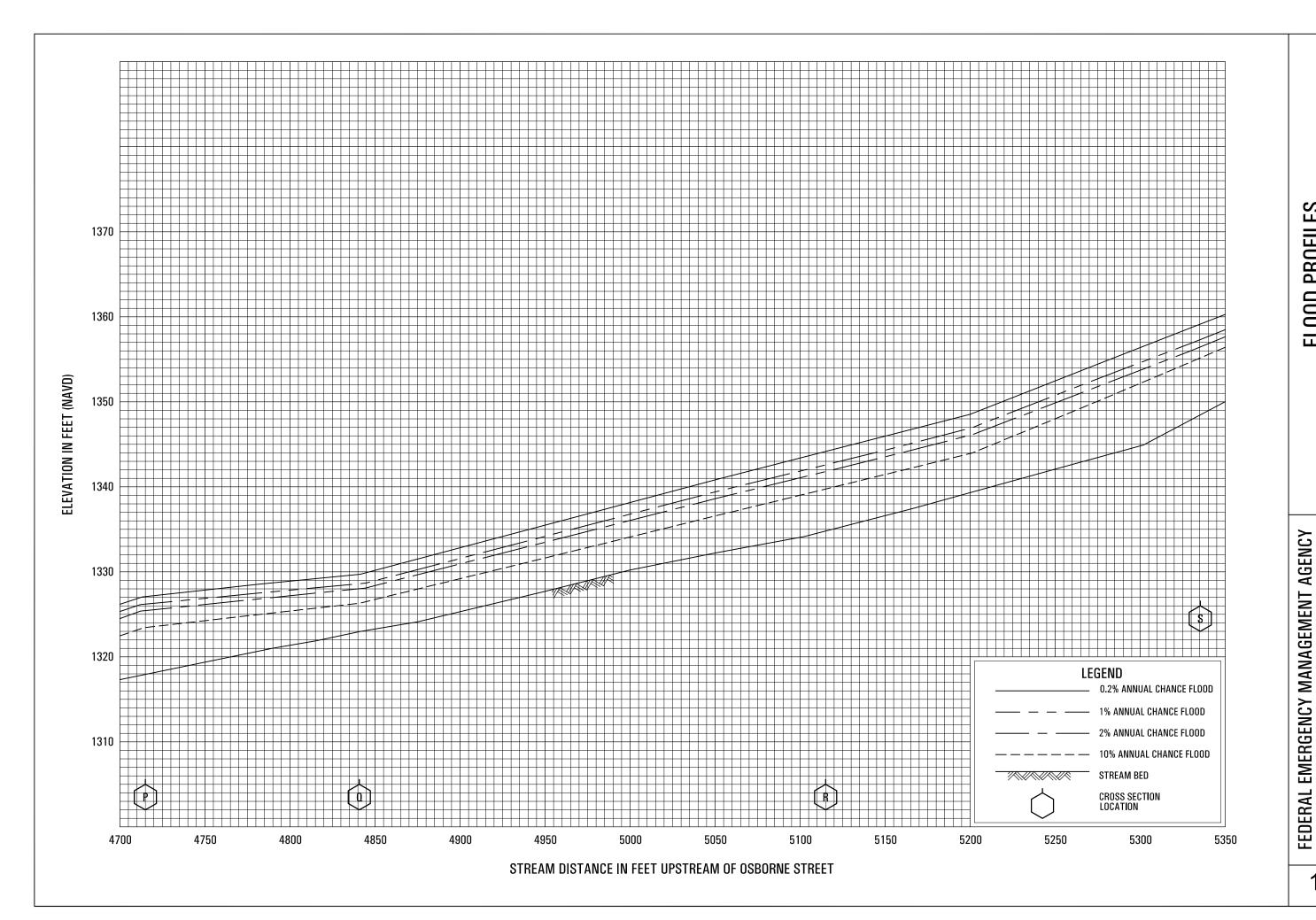


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LOS ANGELES COUNTY, CA

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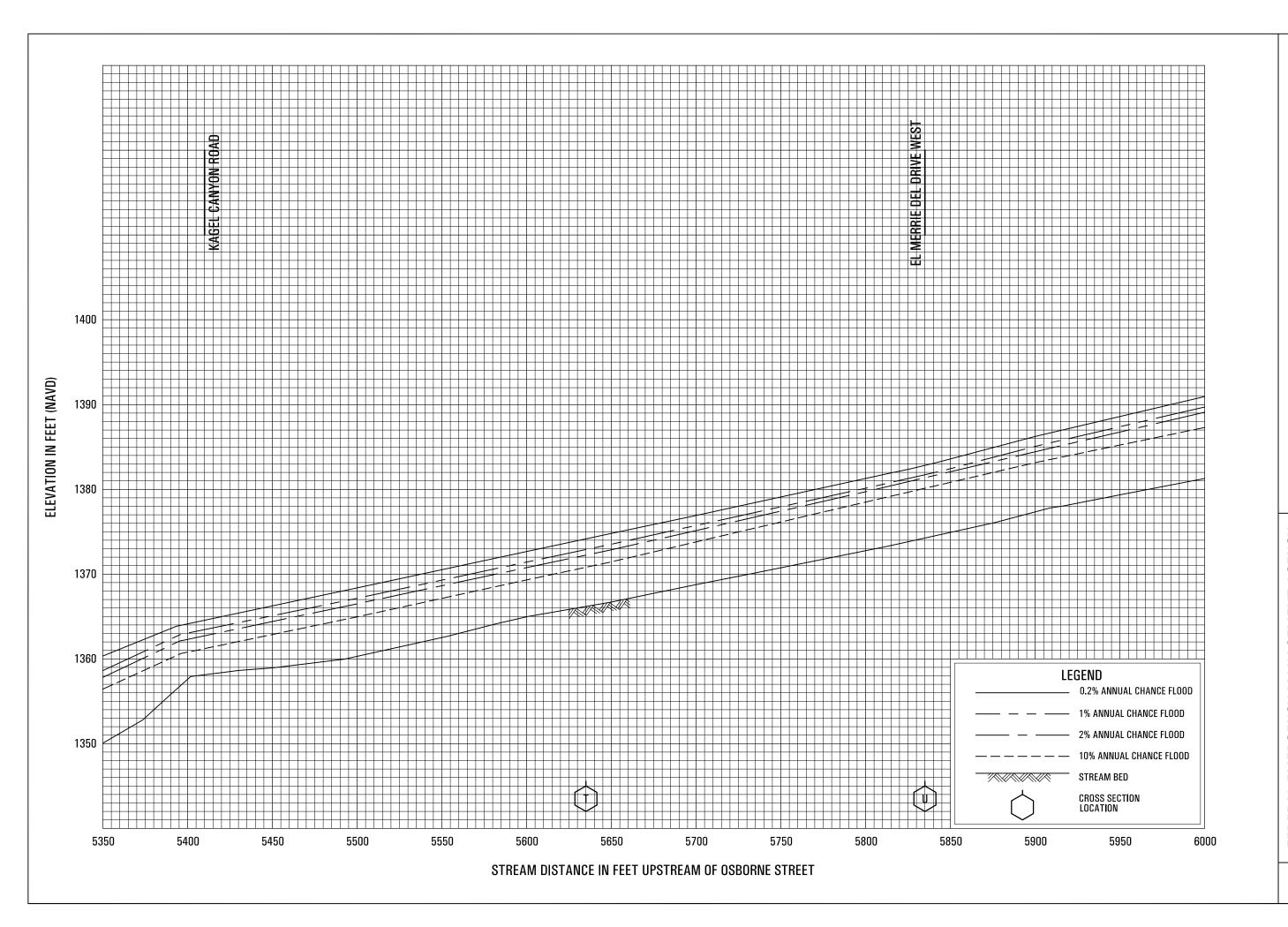
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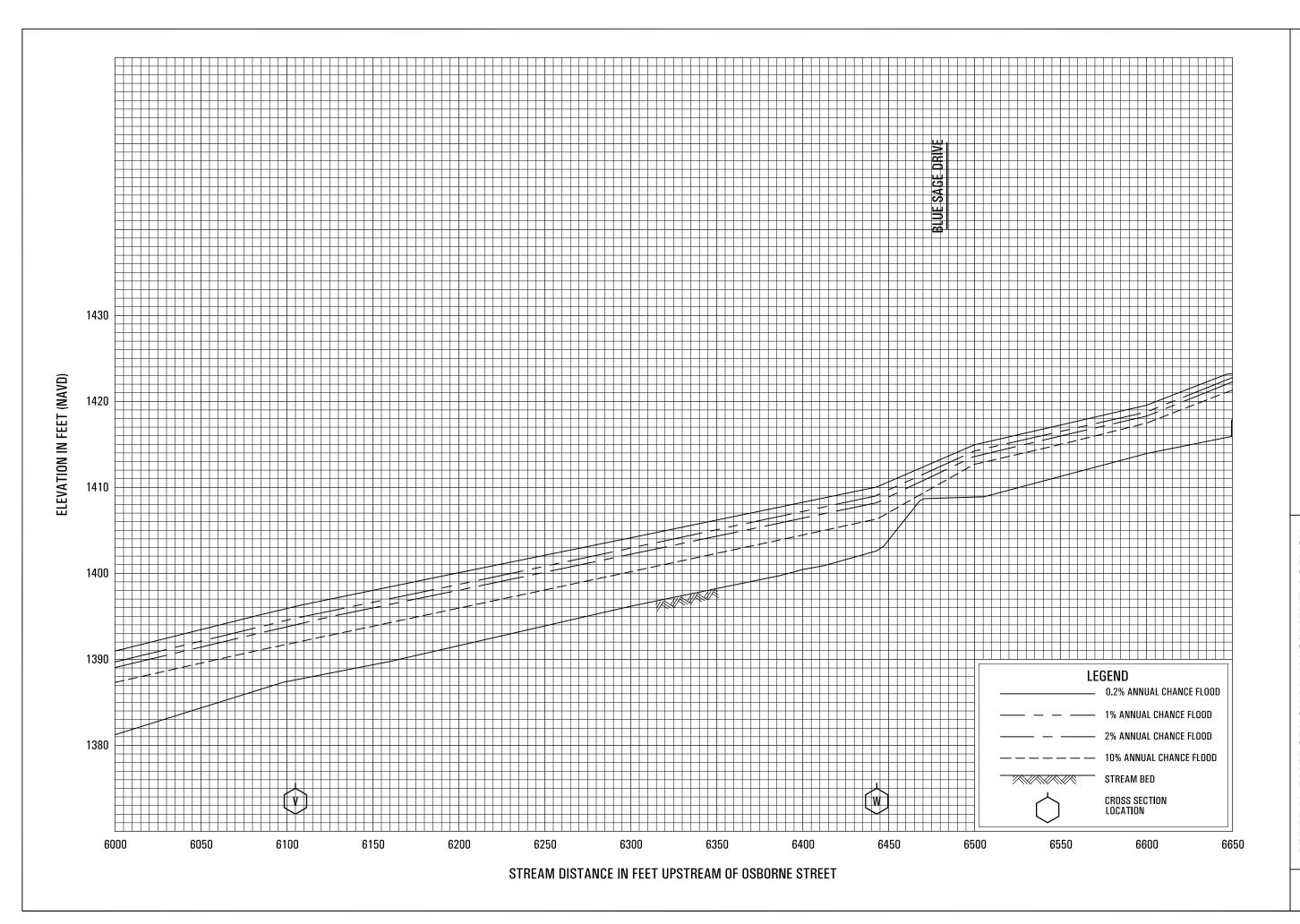
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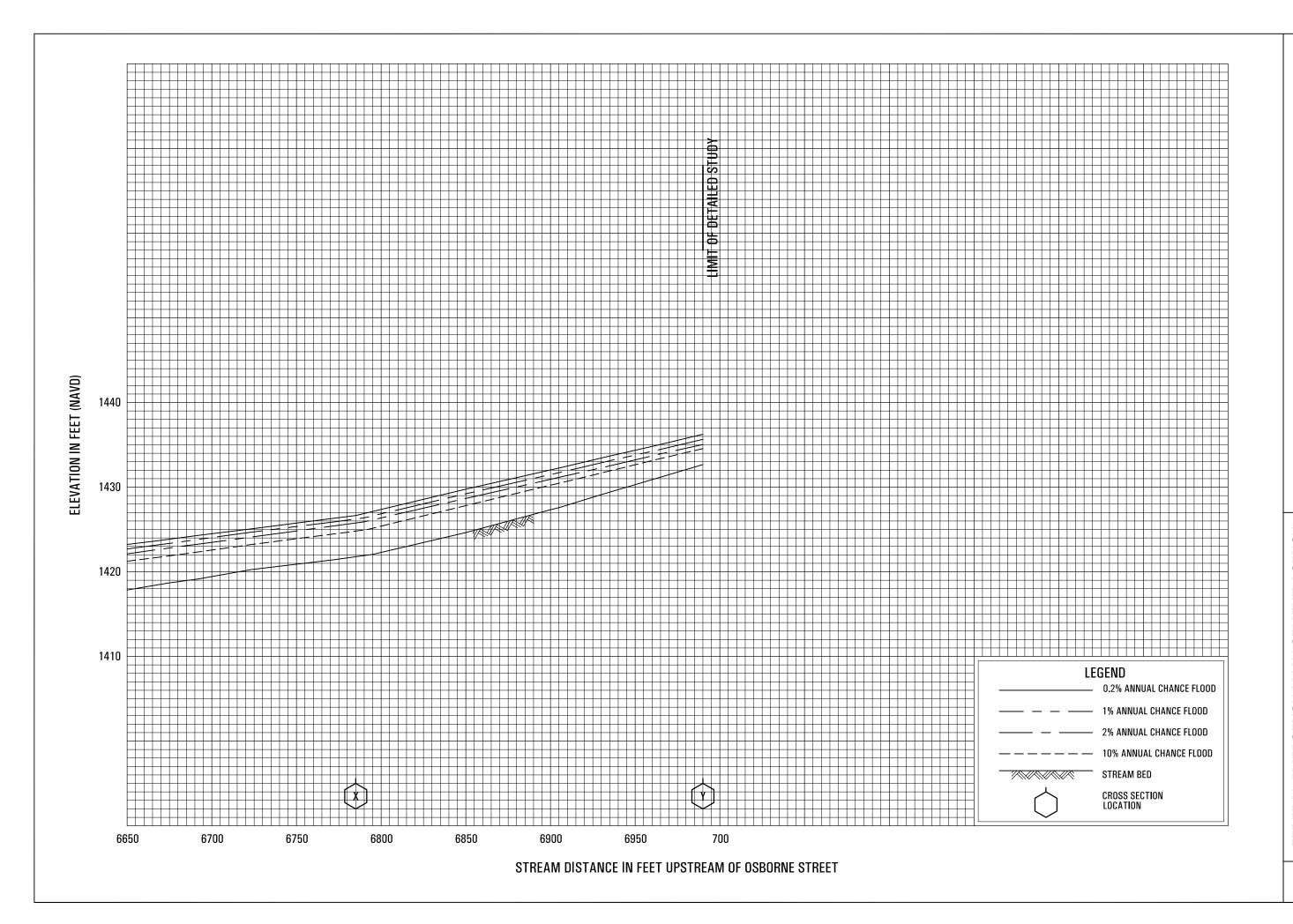
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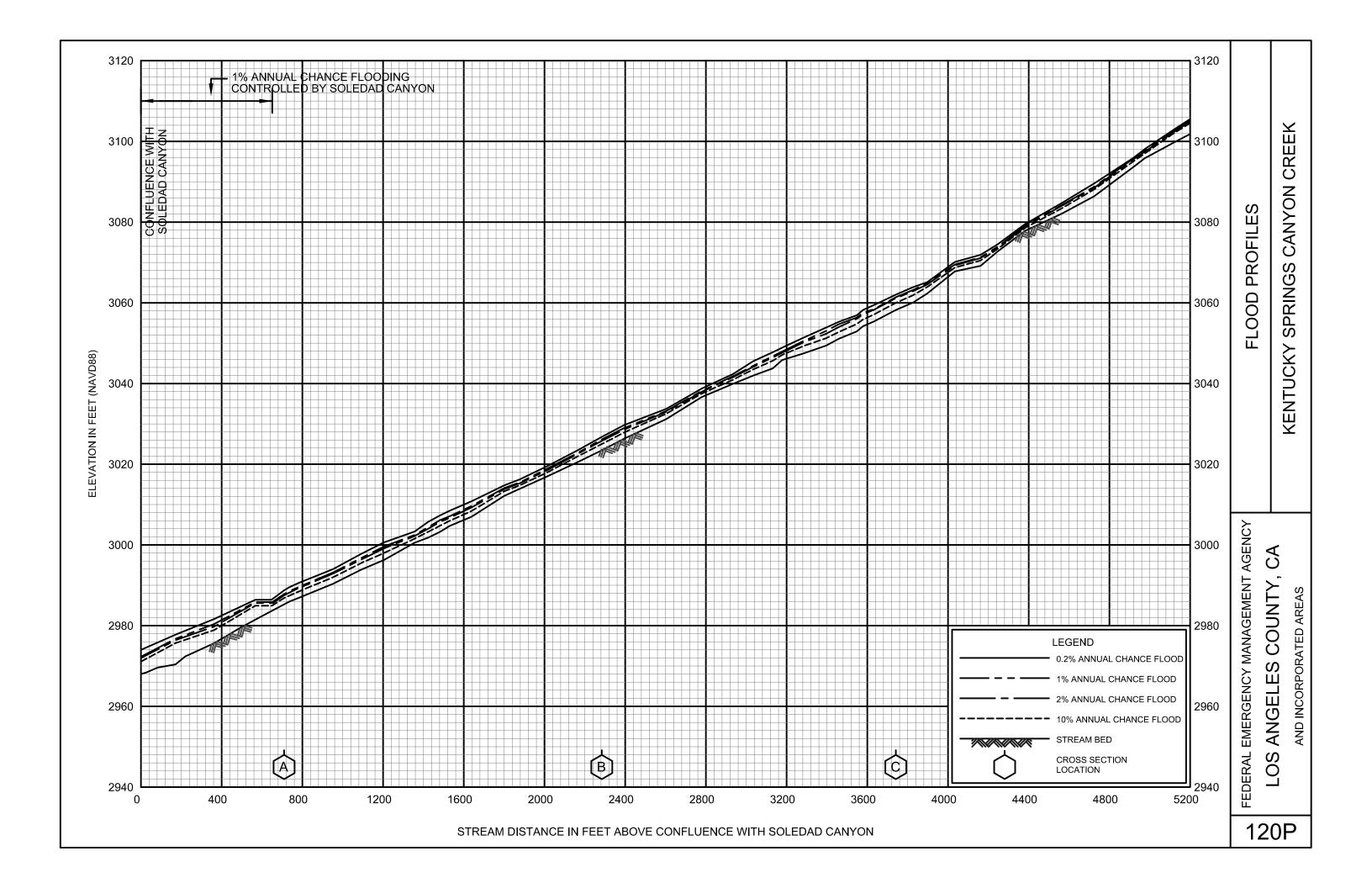
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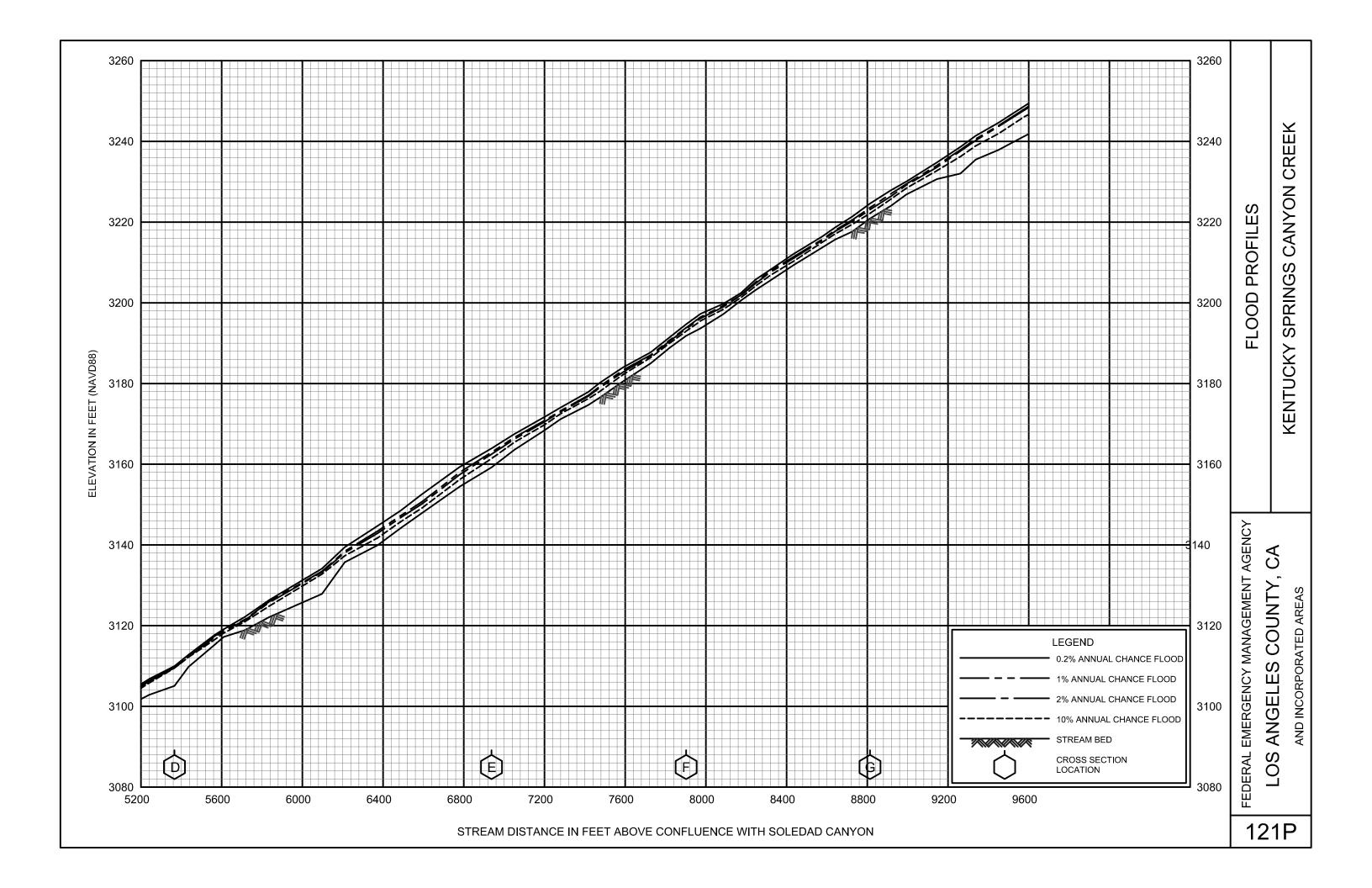
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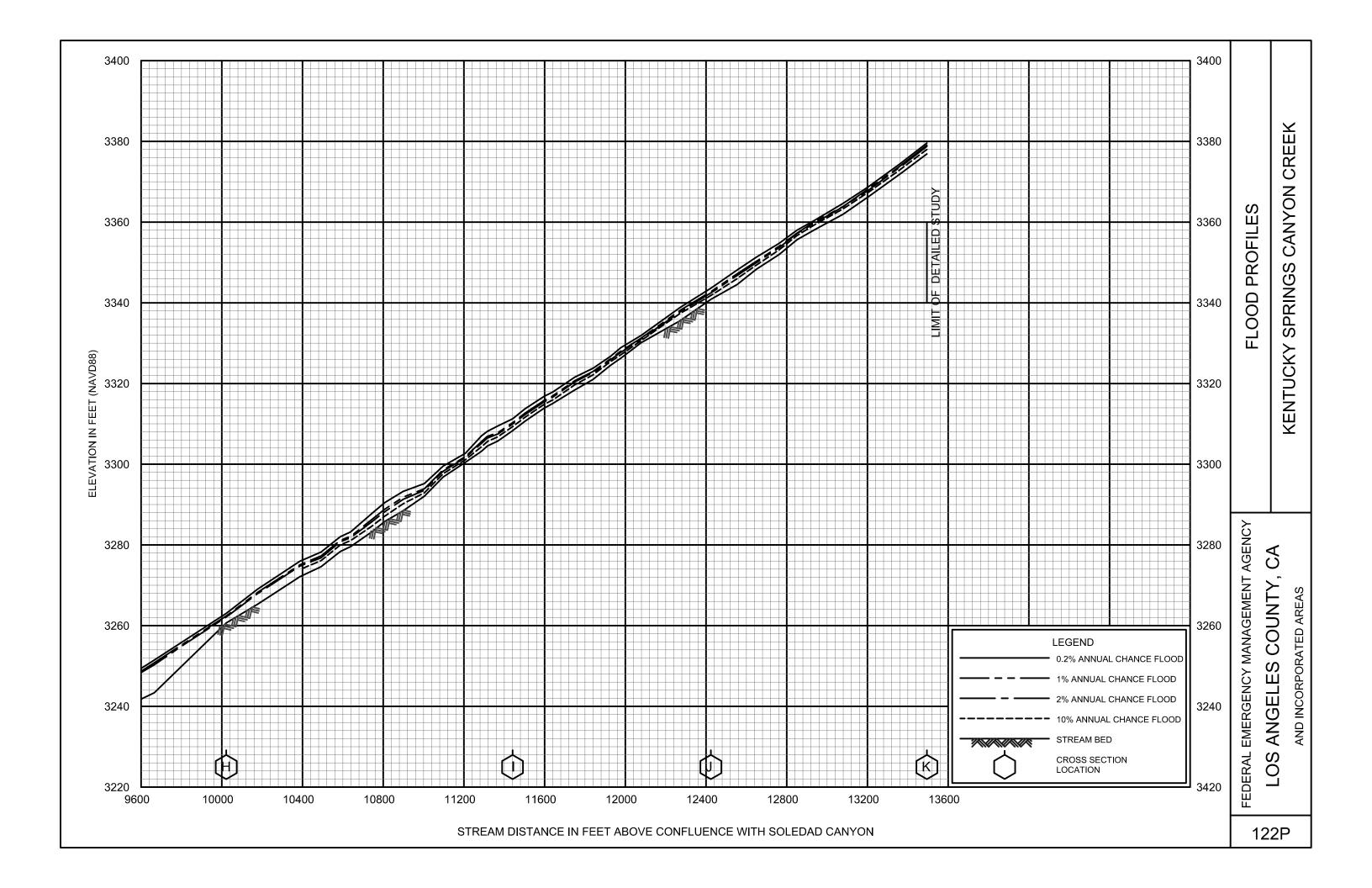


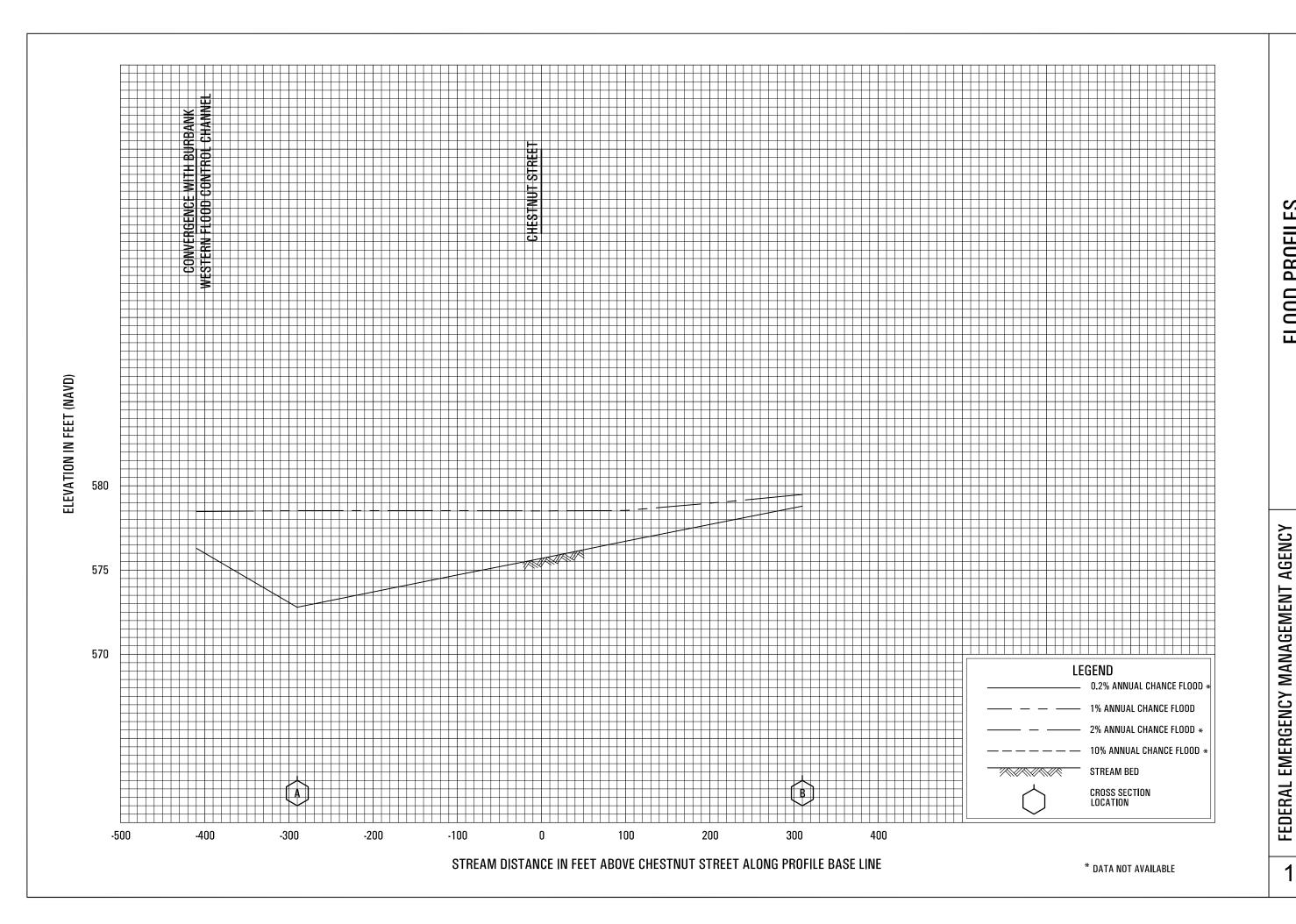
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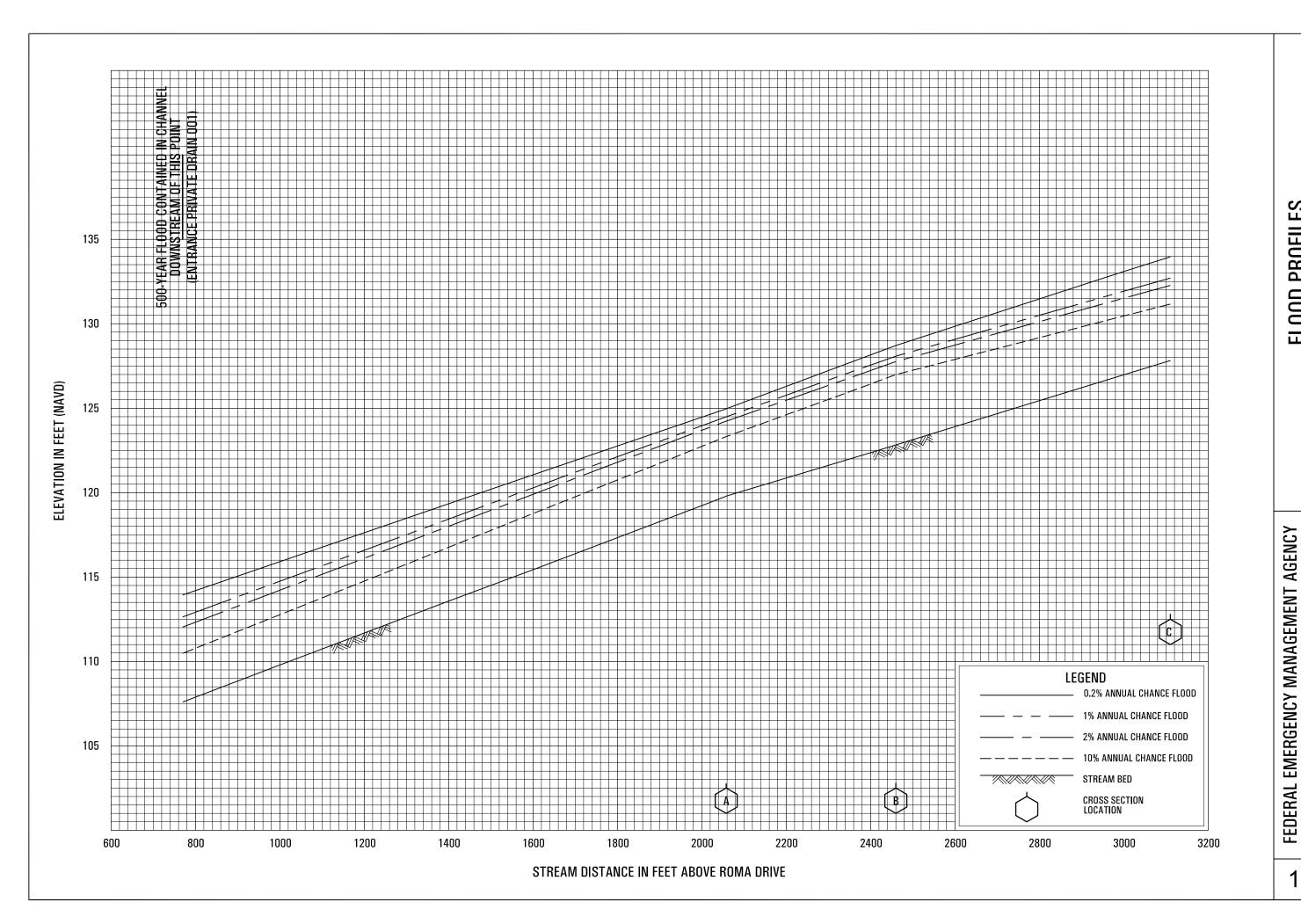






LAKE STREET OVERFLOW

LOS ANGELES COUNTY, CA AND INCORPORATED AREAS

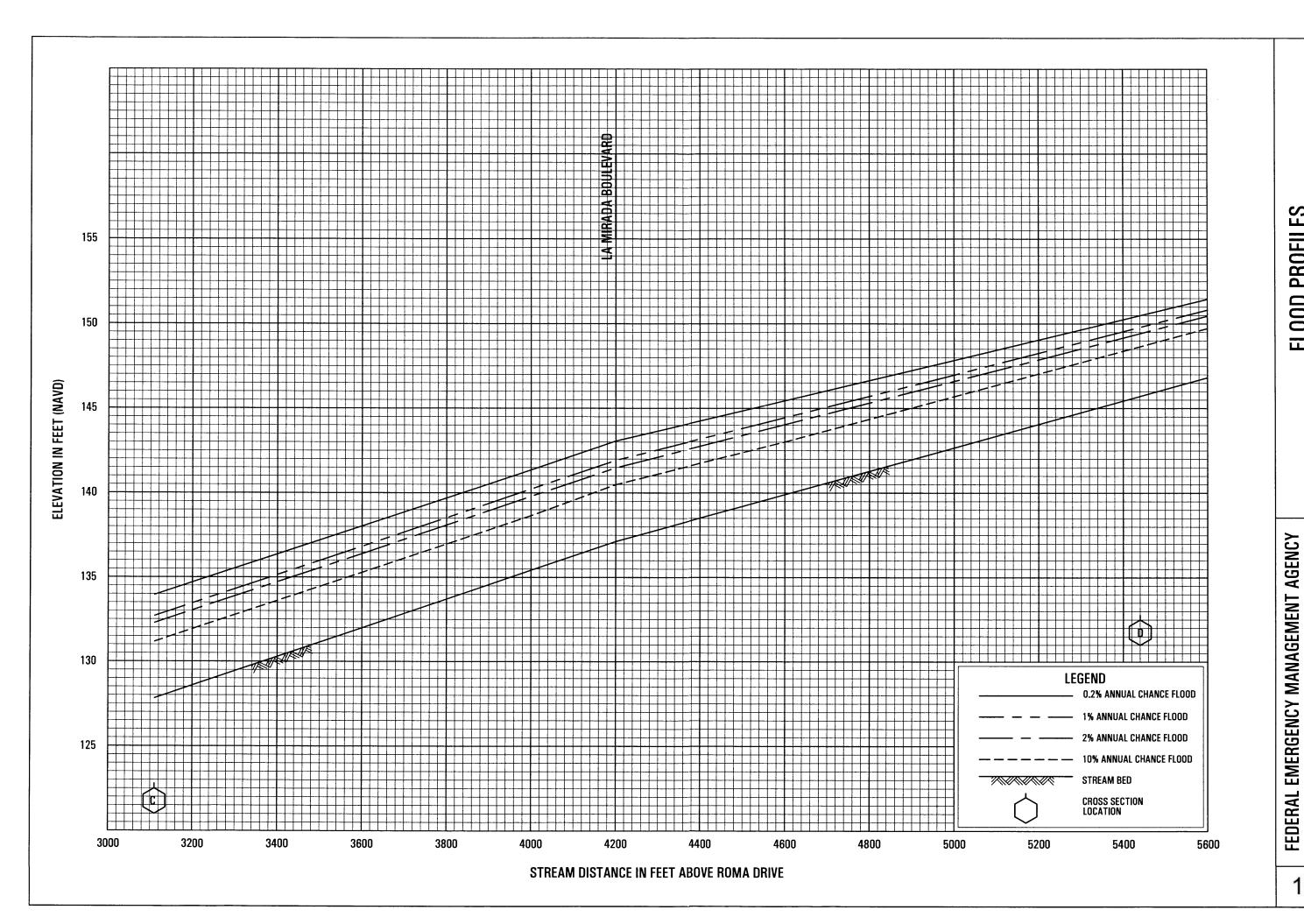


LA MIRADA CREEK

124P

LOS ANGELES COUNTY, CA

AND INCORPORATED AREAS



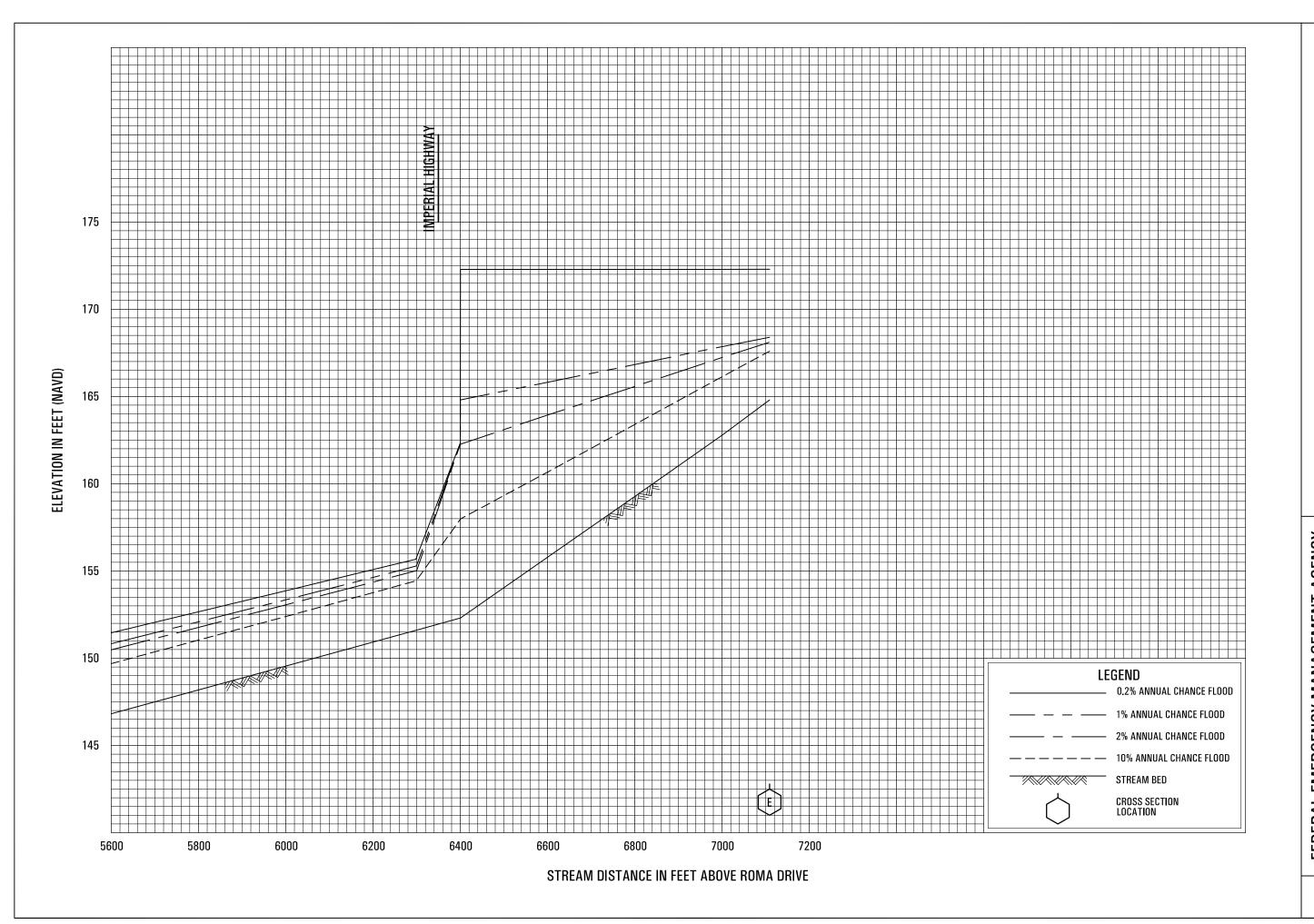
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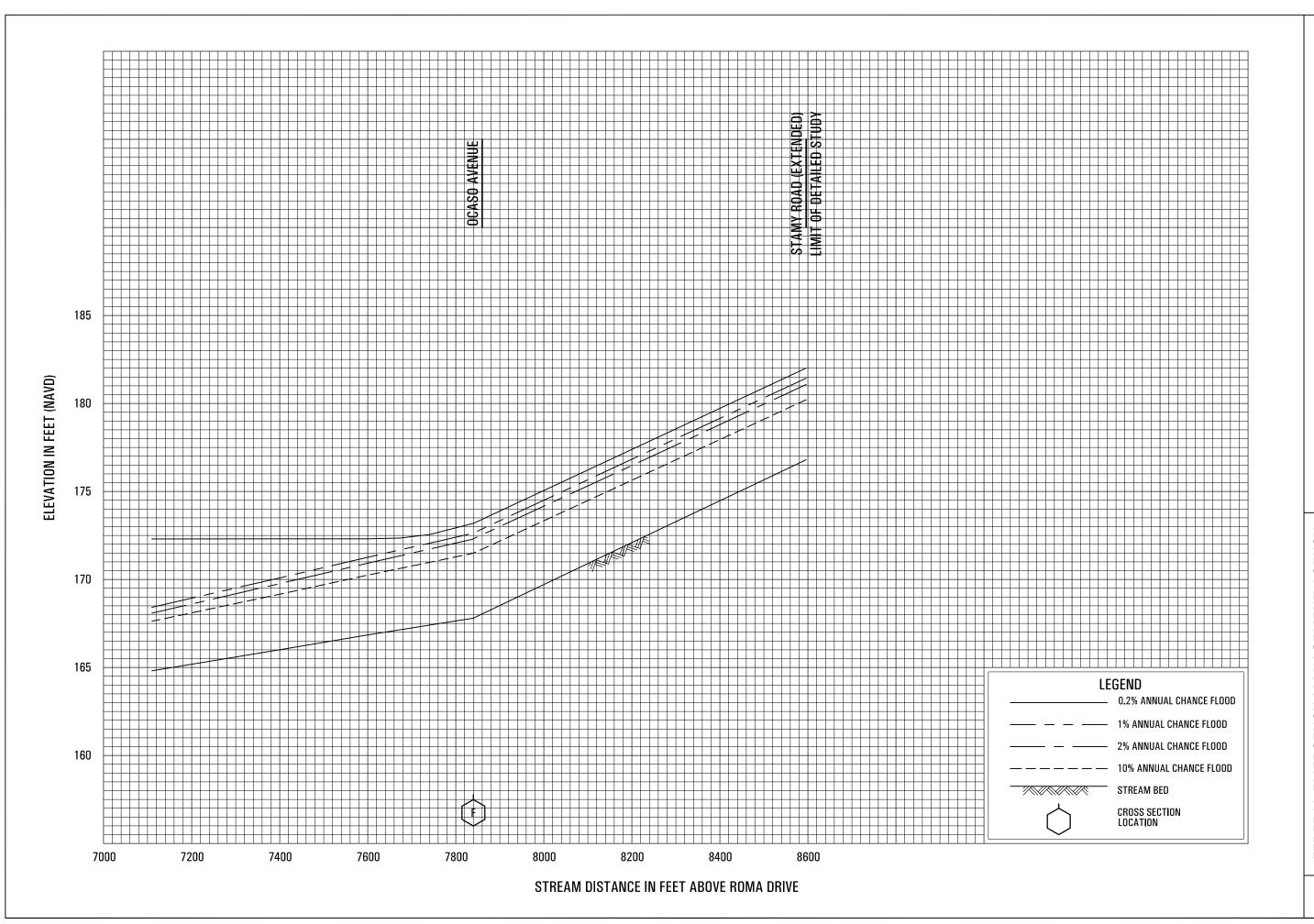
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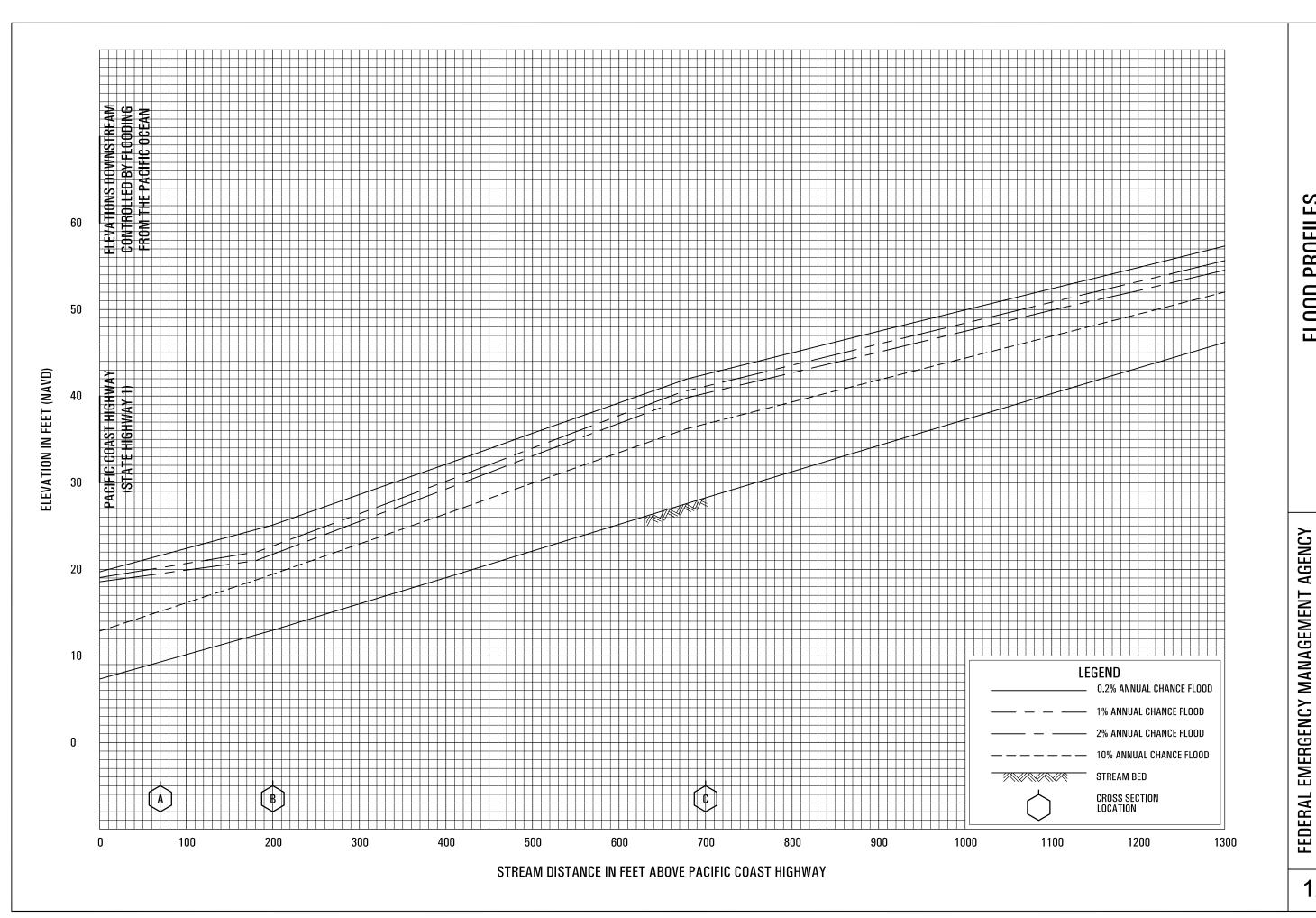
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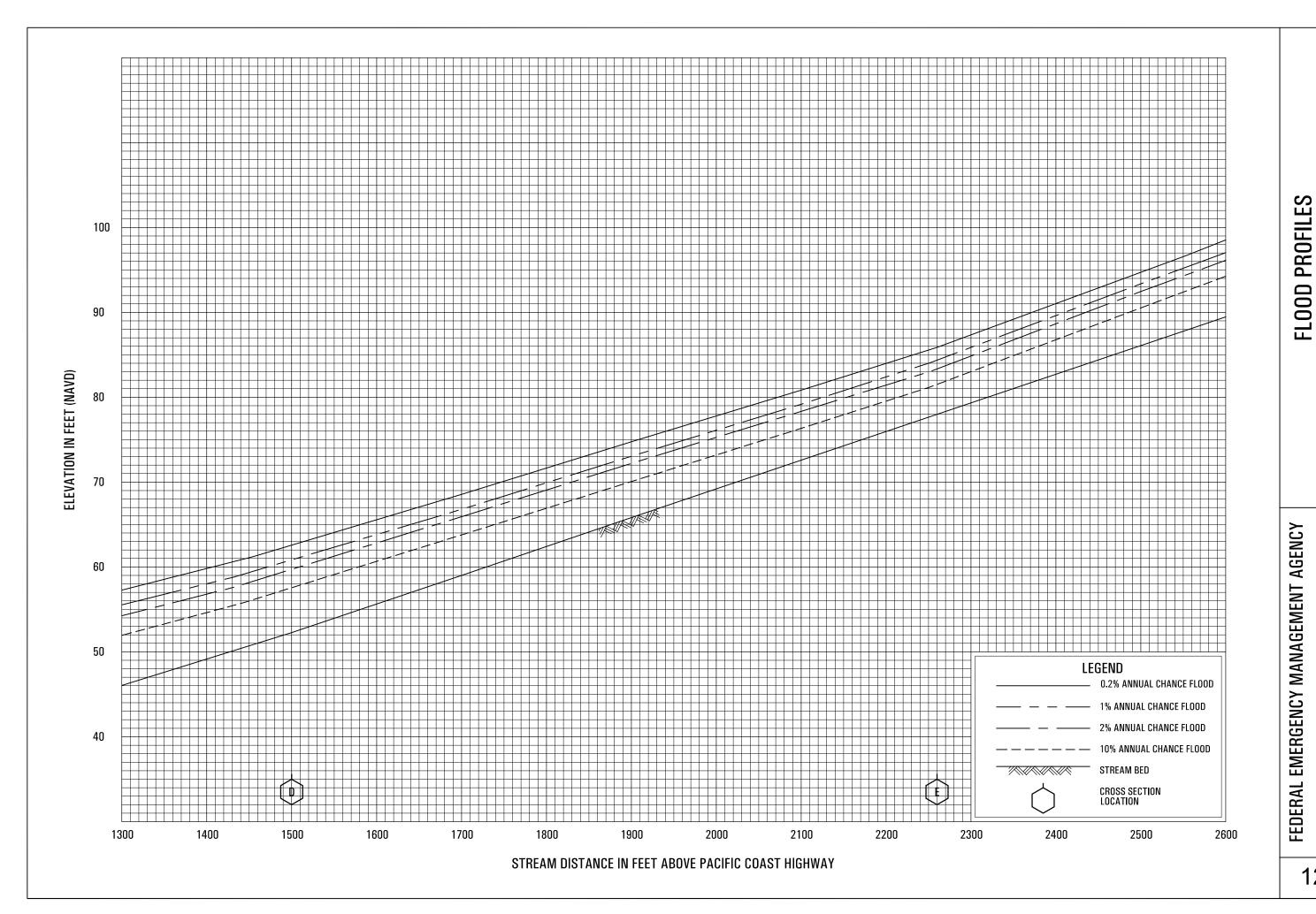


LAS FLORES CANYON

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AND INCORPORATED AREAS

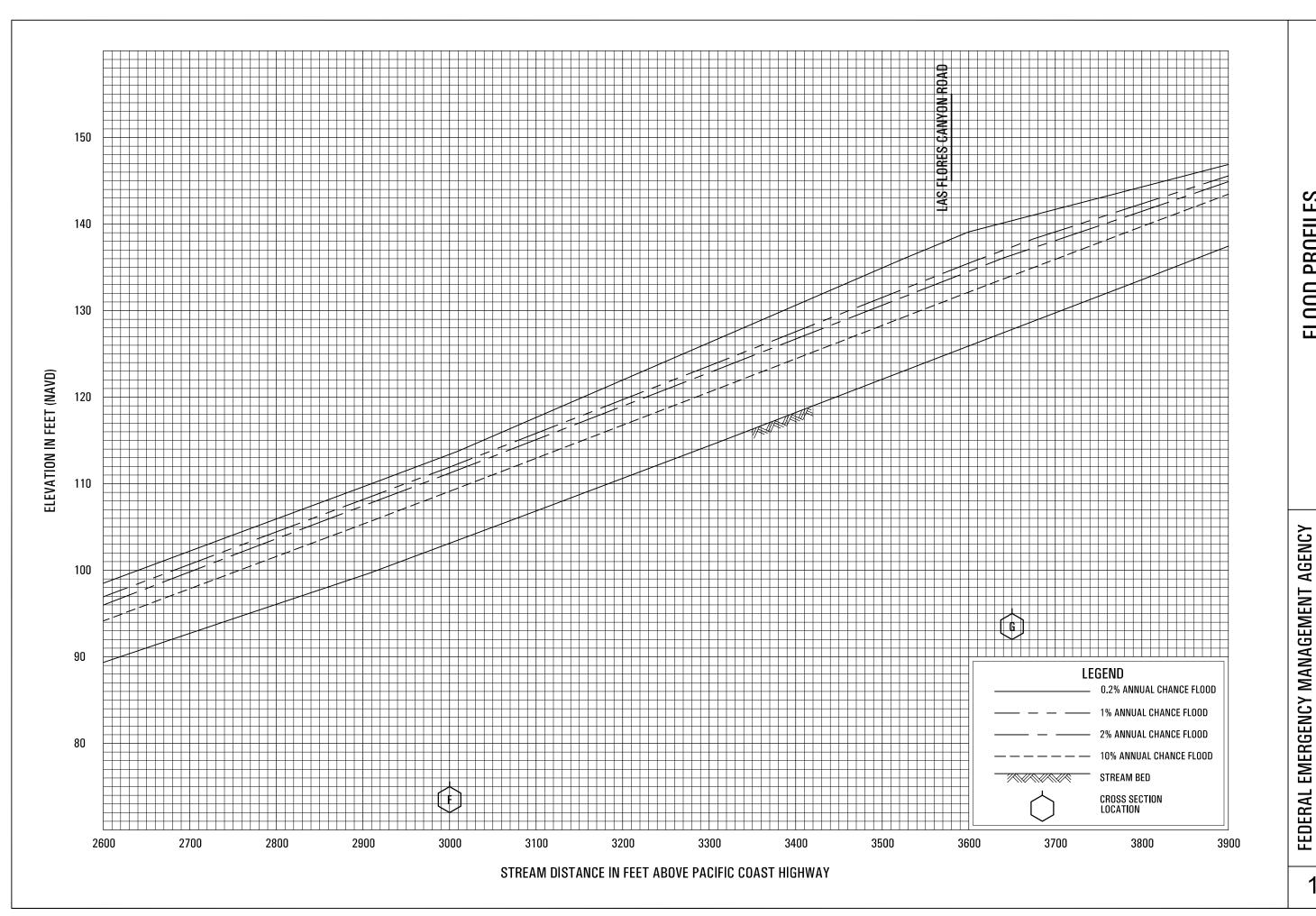


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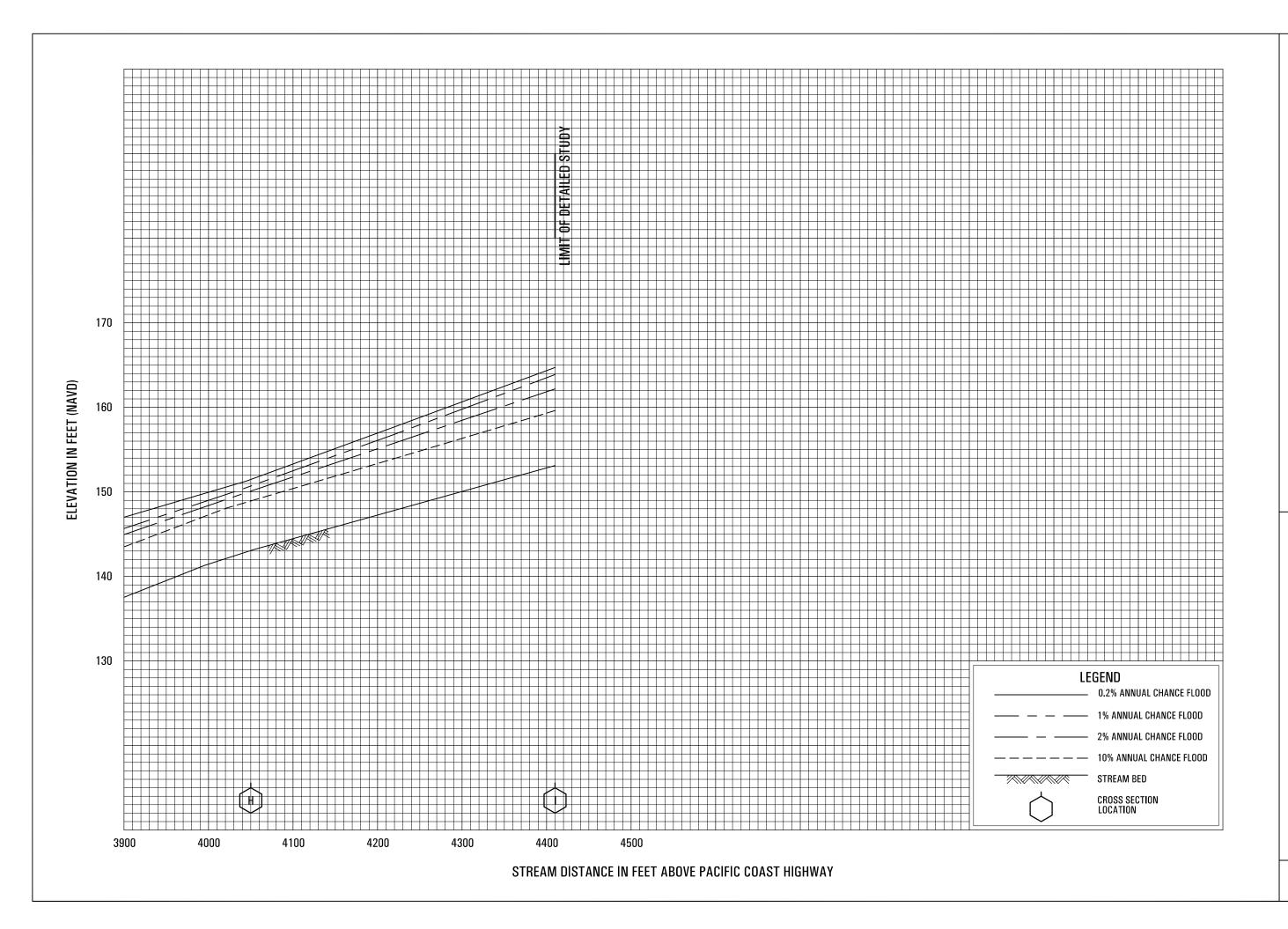
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LAS FLORES CANYON

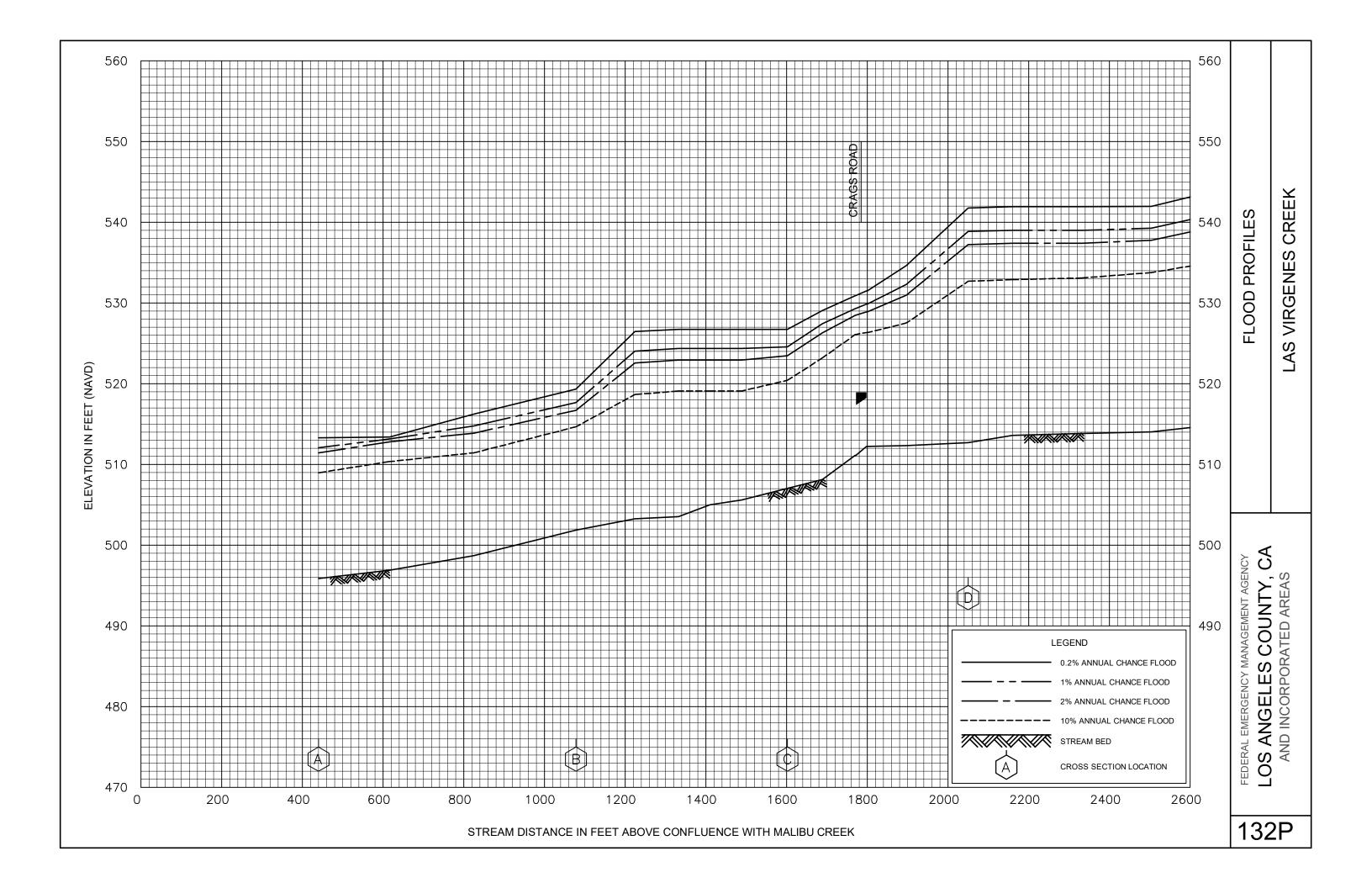
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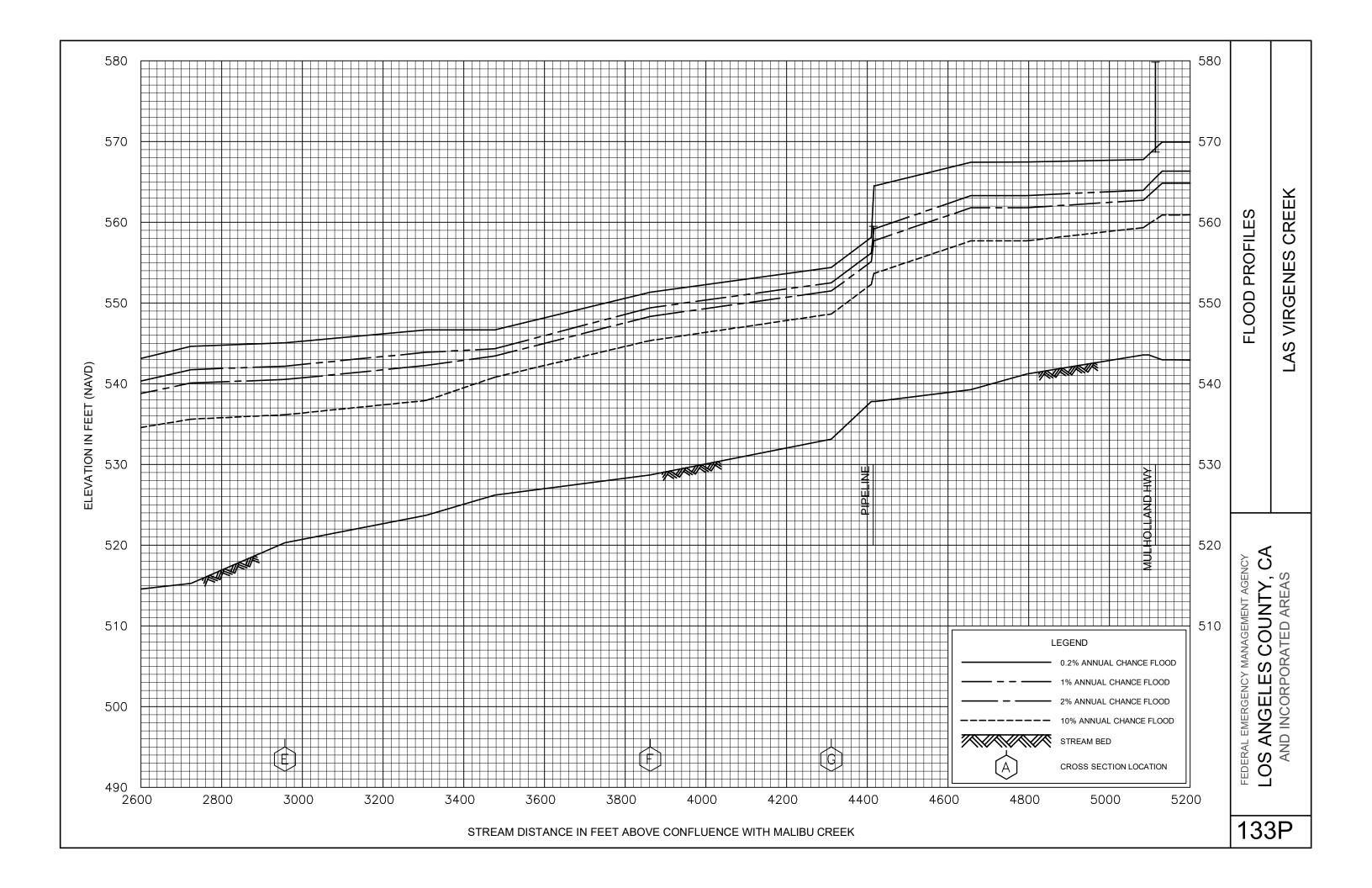
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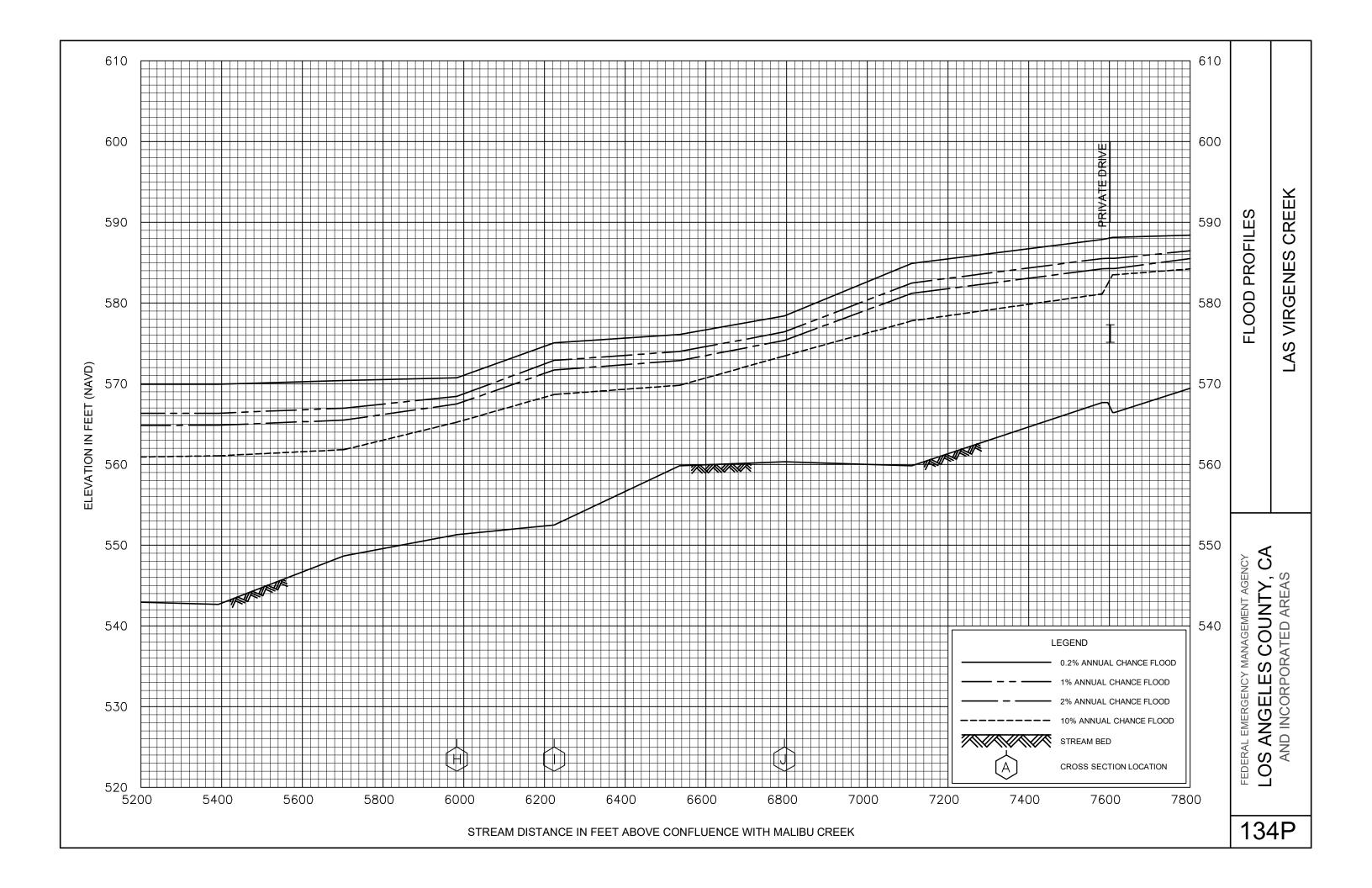


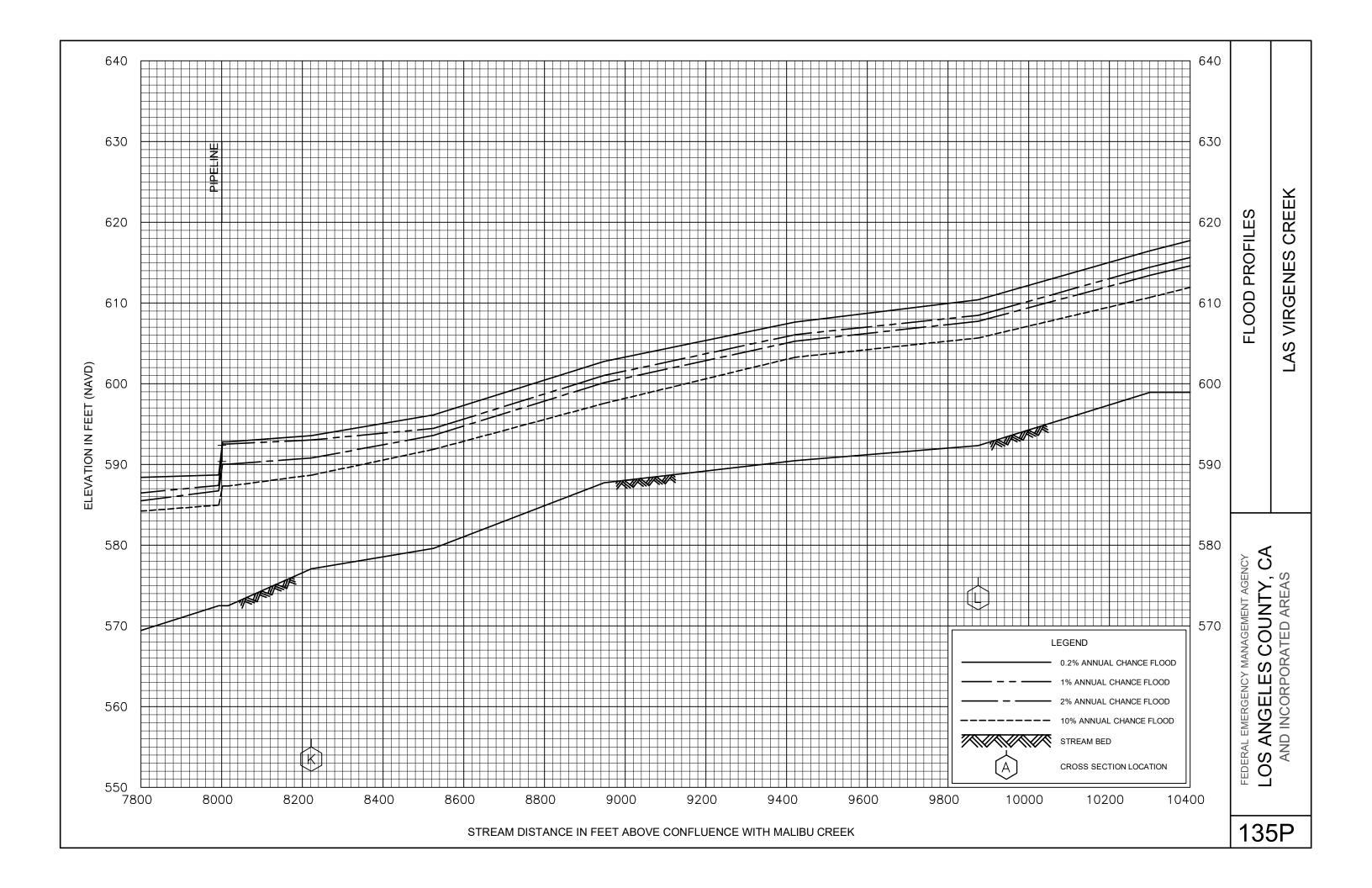
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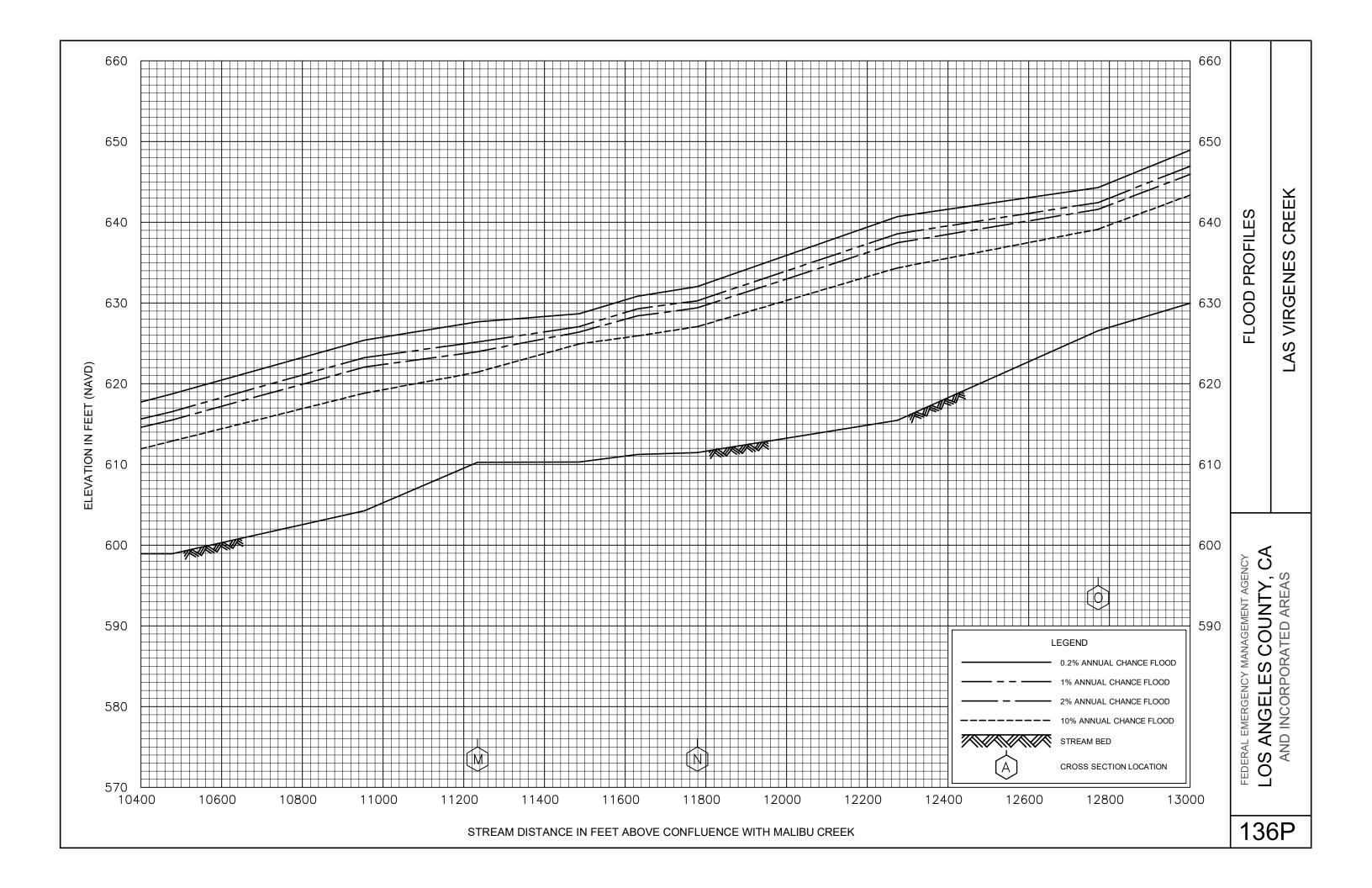
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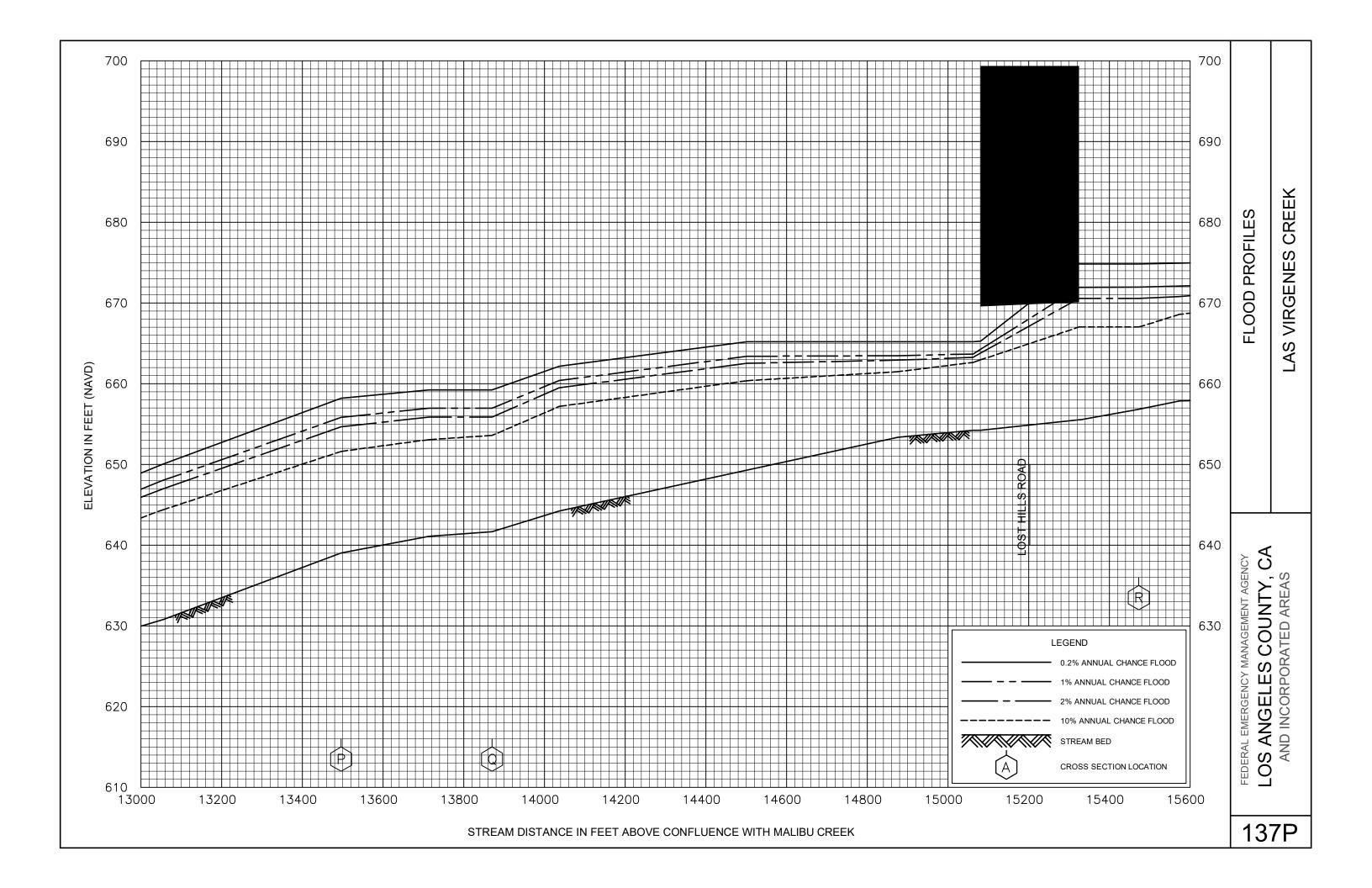


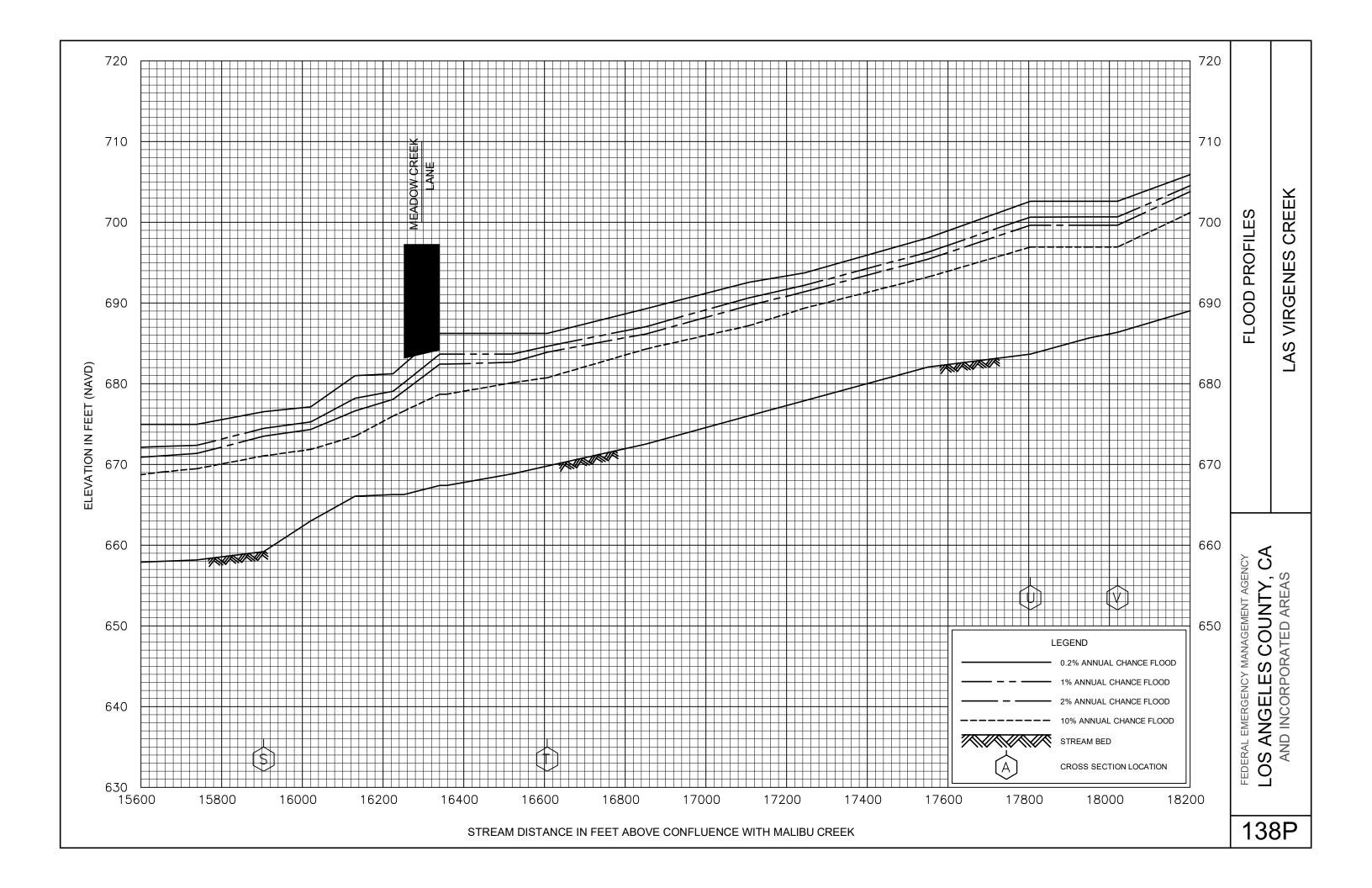


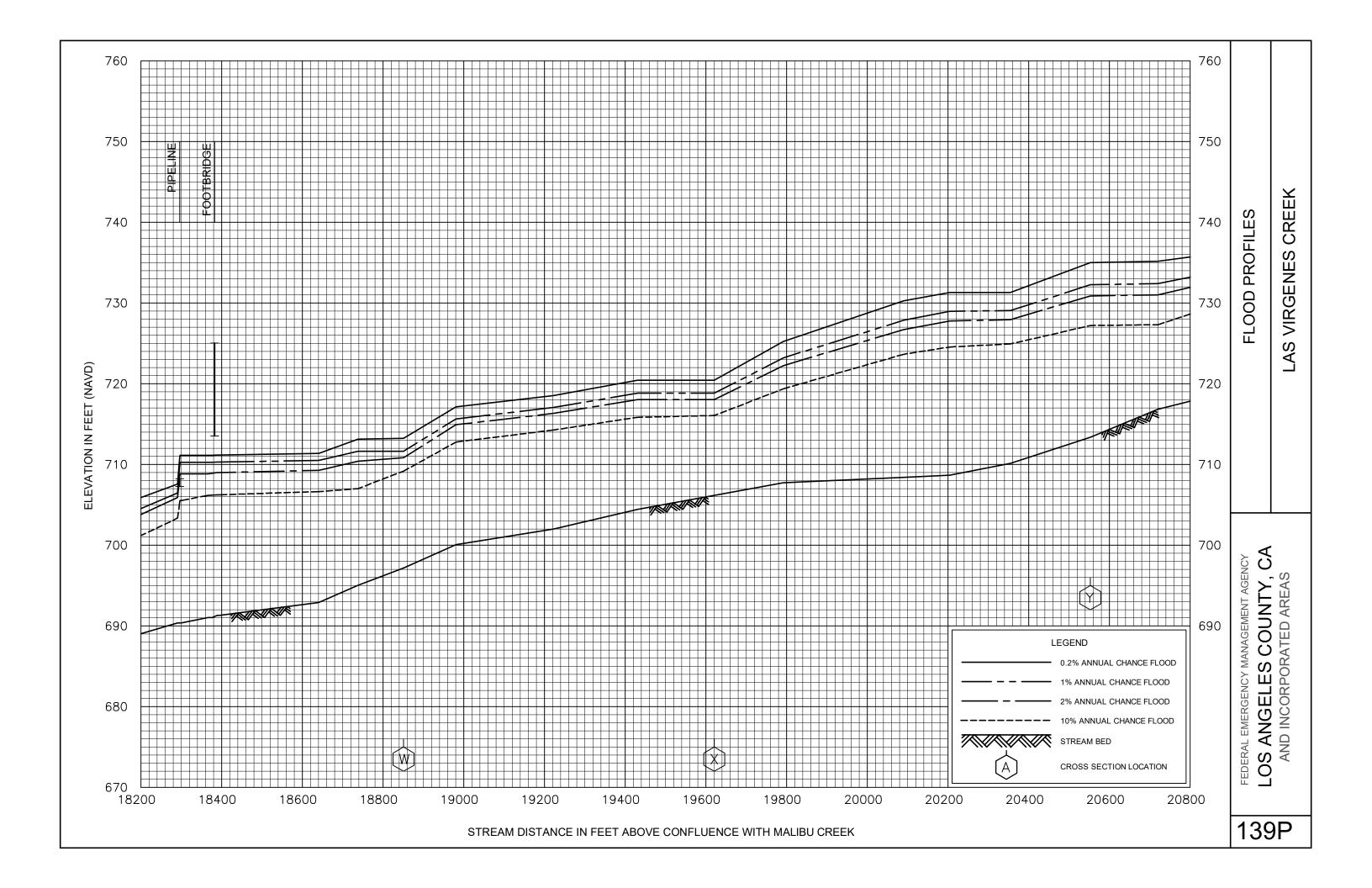


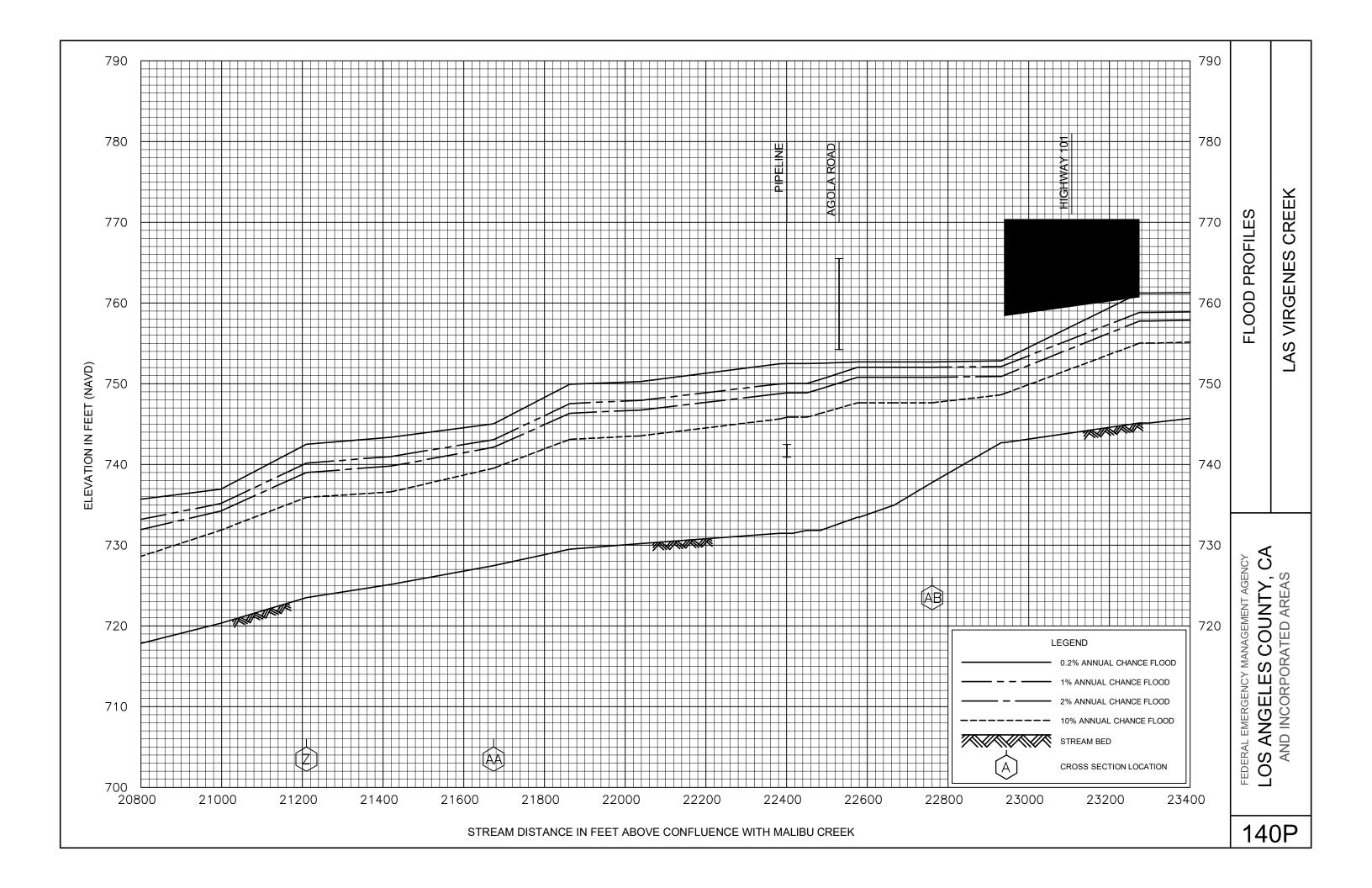


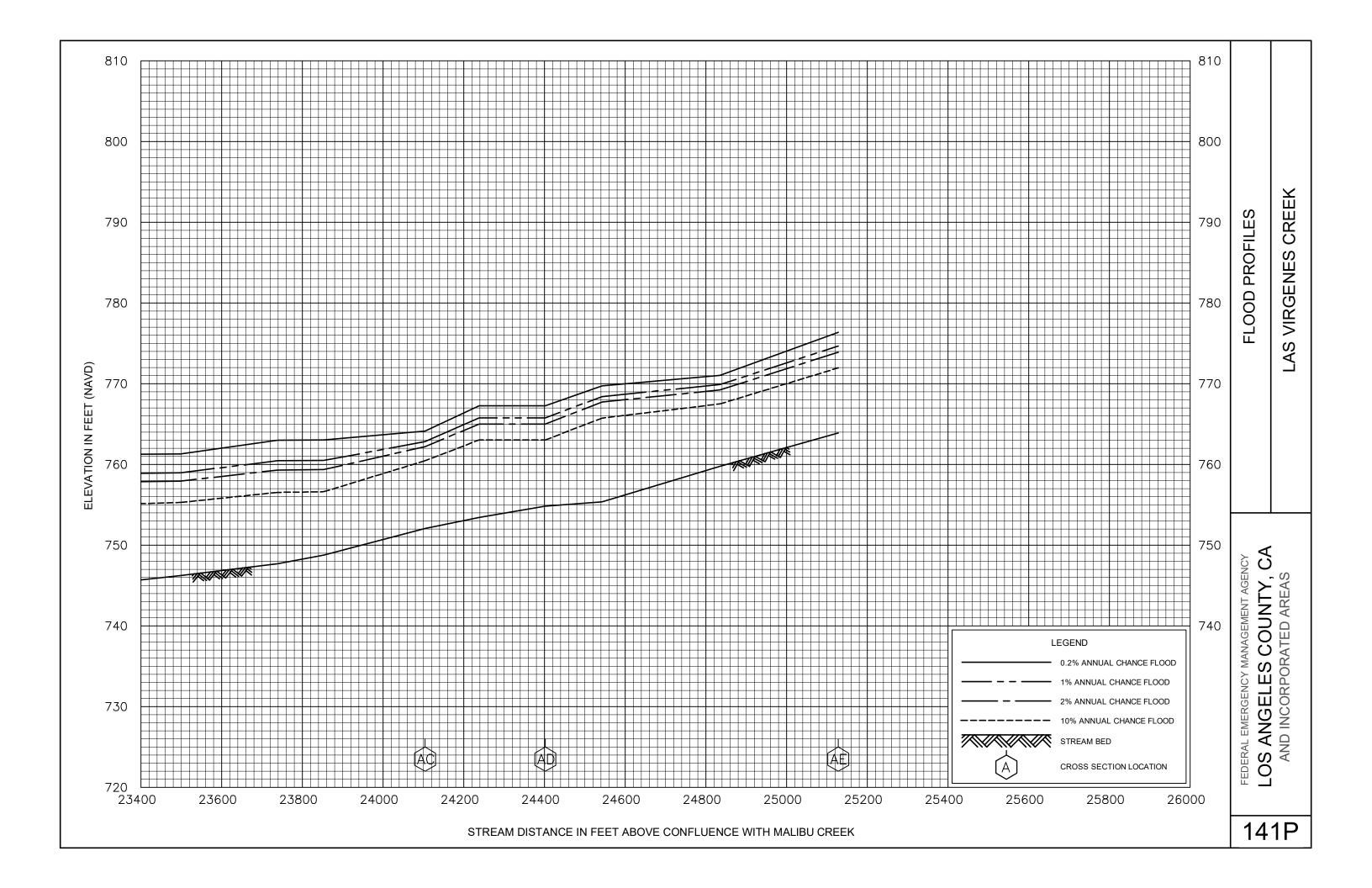


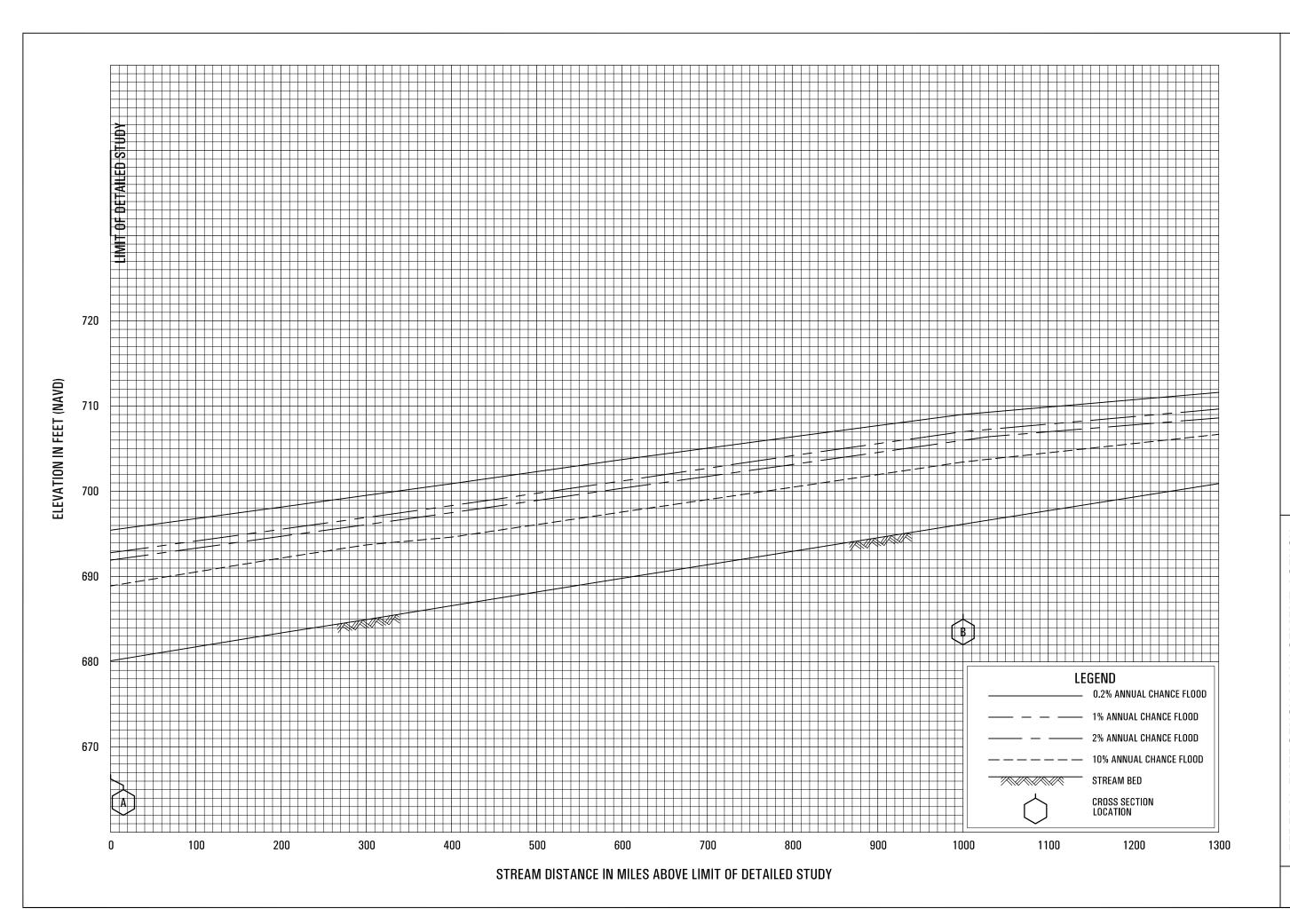






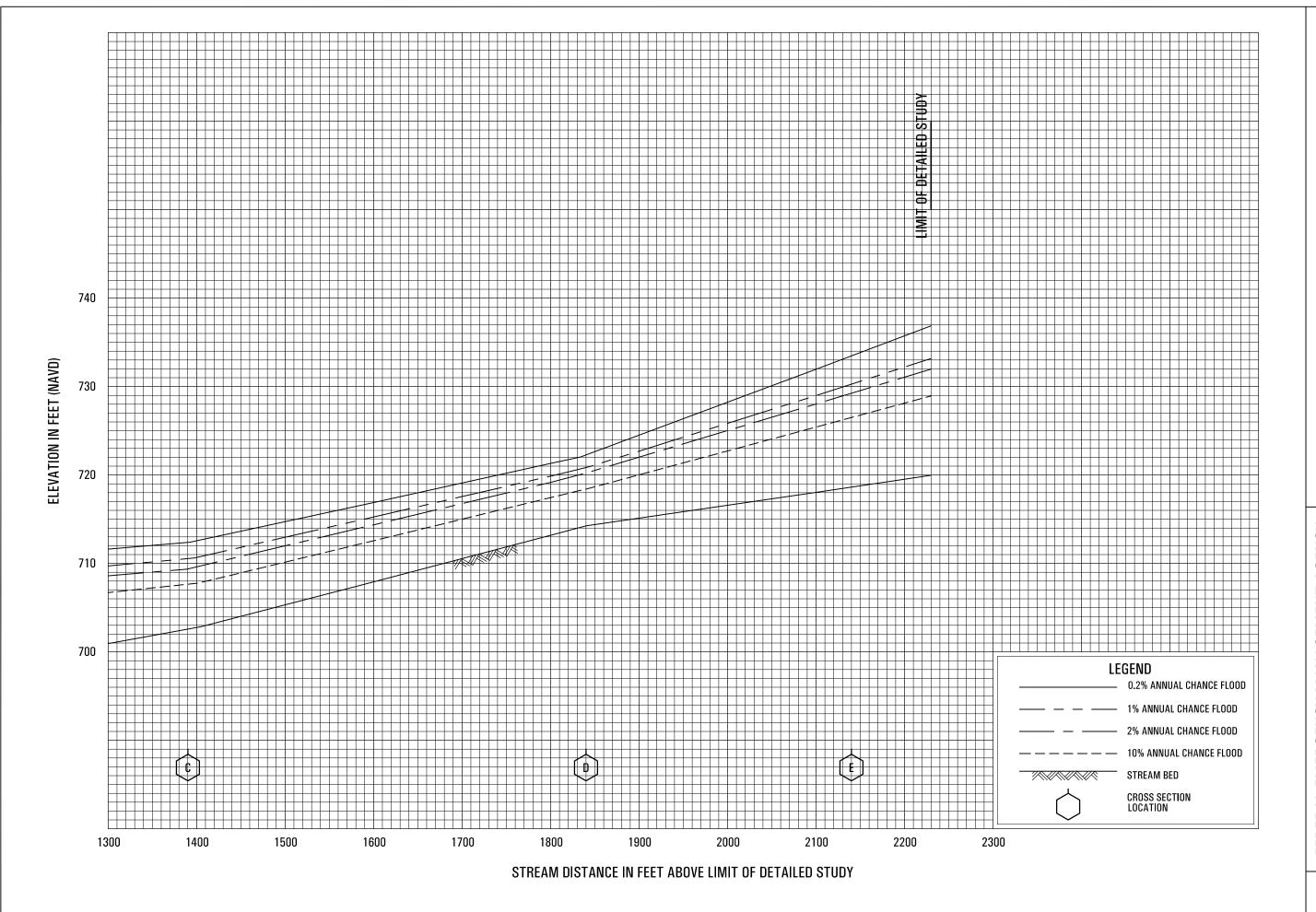






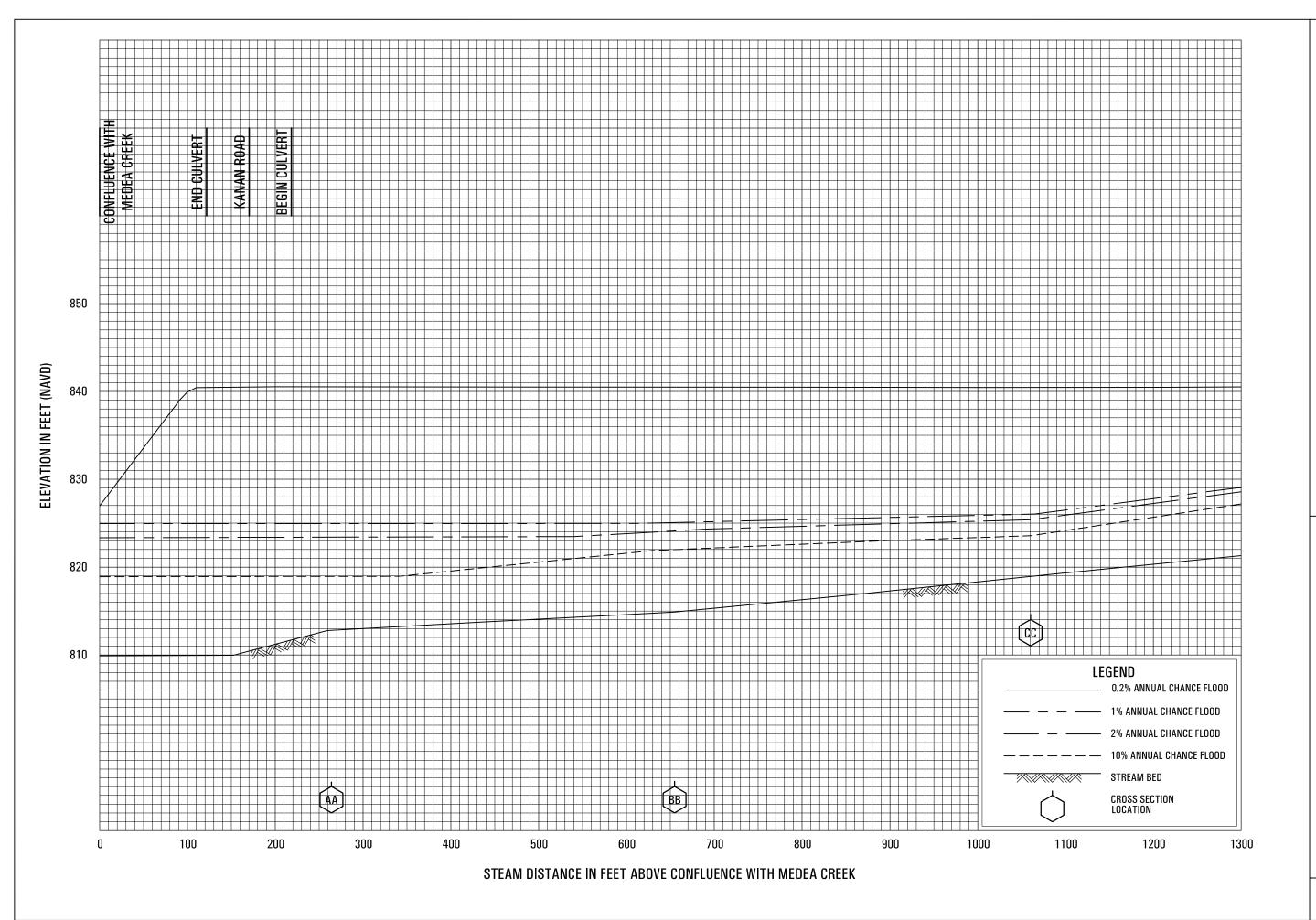
LIBERTY CANYON

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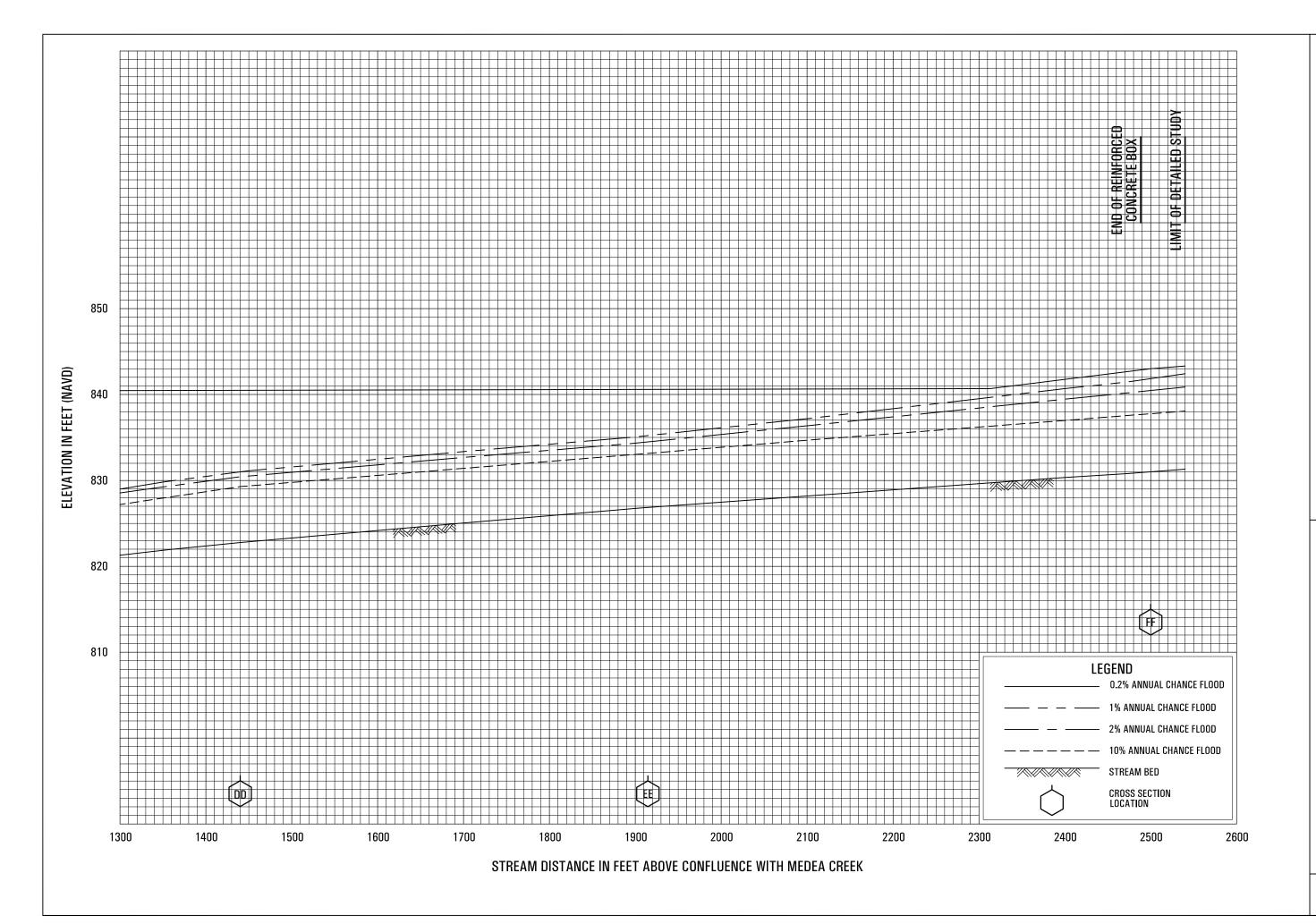
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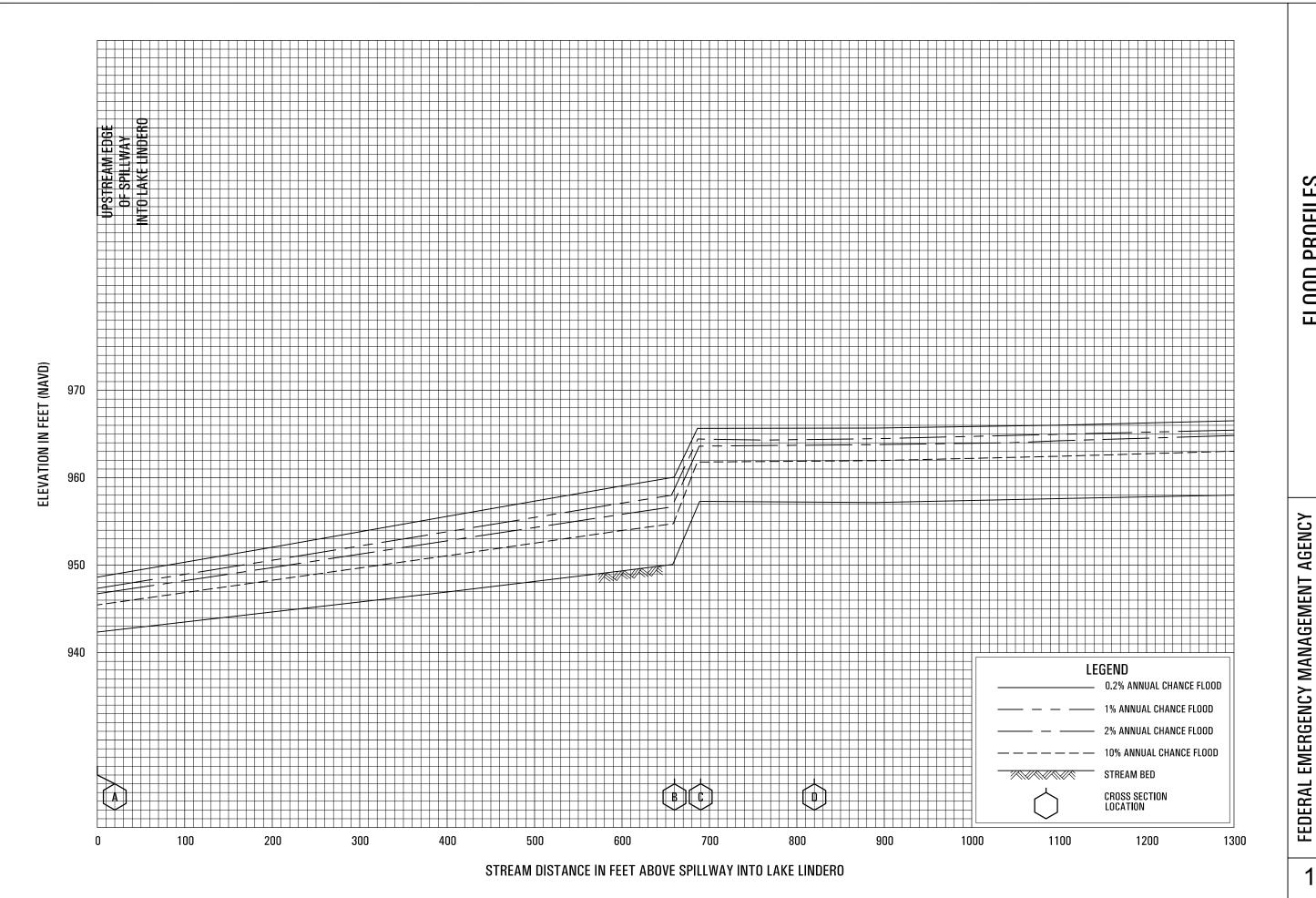
LINDERO CANYON ABOVE CONFLUENCE WITH MEDEA CREEK AND INCORPORATED AREAS

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LINDERO CANYON ABOVE CONFLUENCE WITH MEDEA CREEK

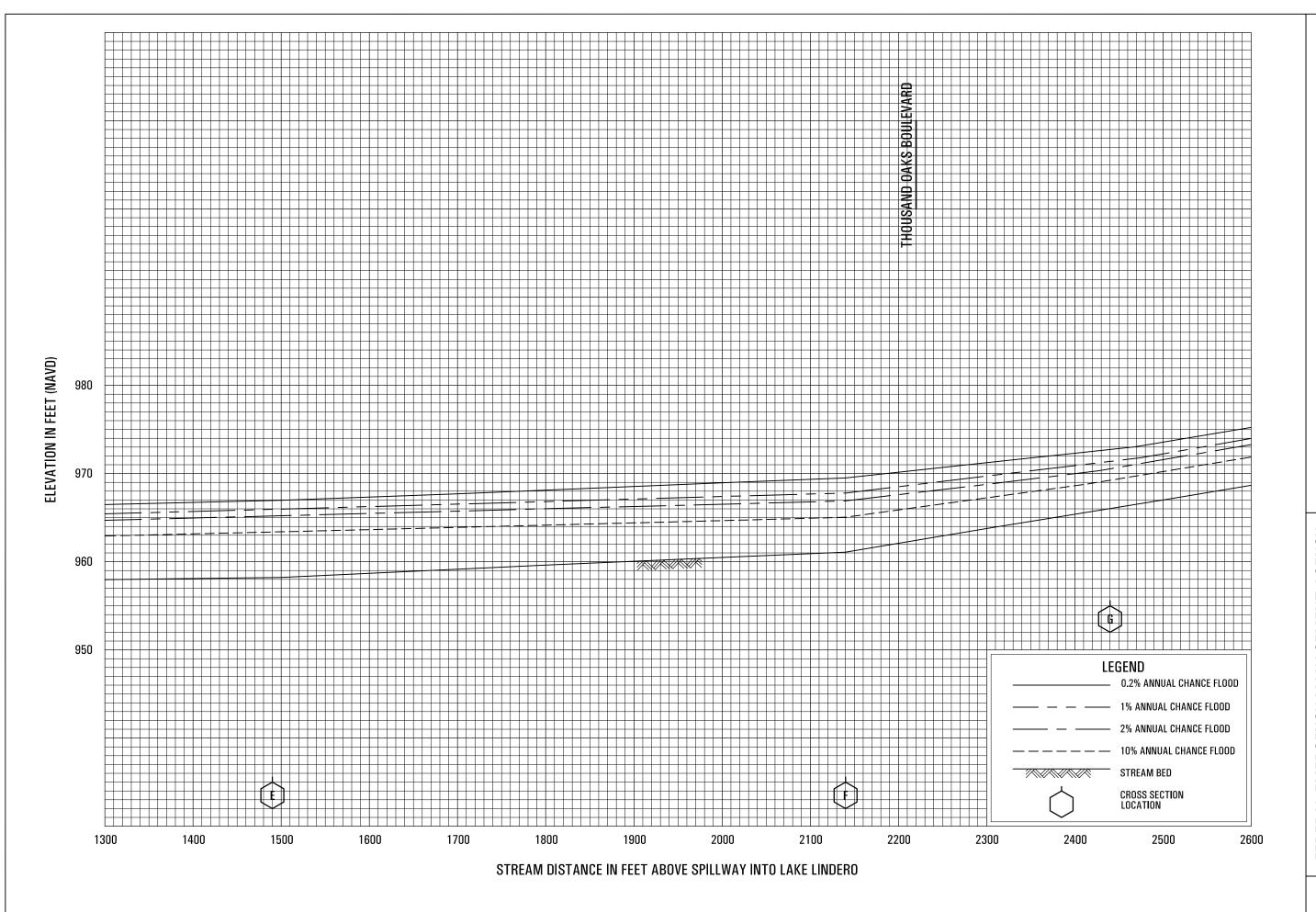
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LINDERO CANYON ABOVE LAKE LINDERO

LOS ANGELES COUNTY, CA

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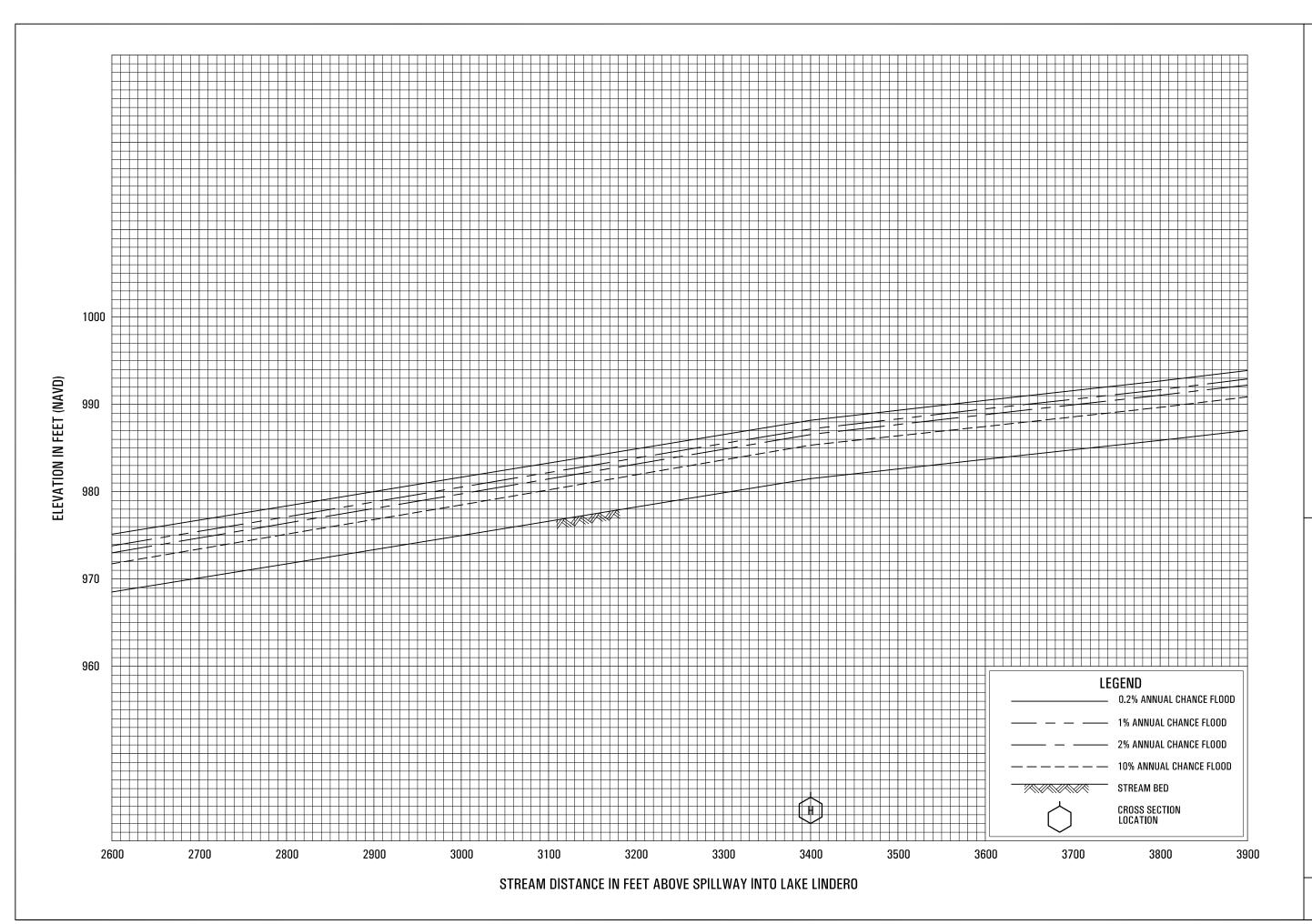
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FLOOD PROFILES

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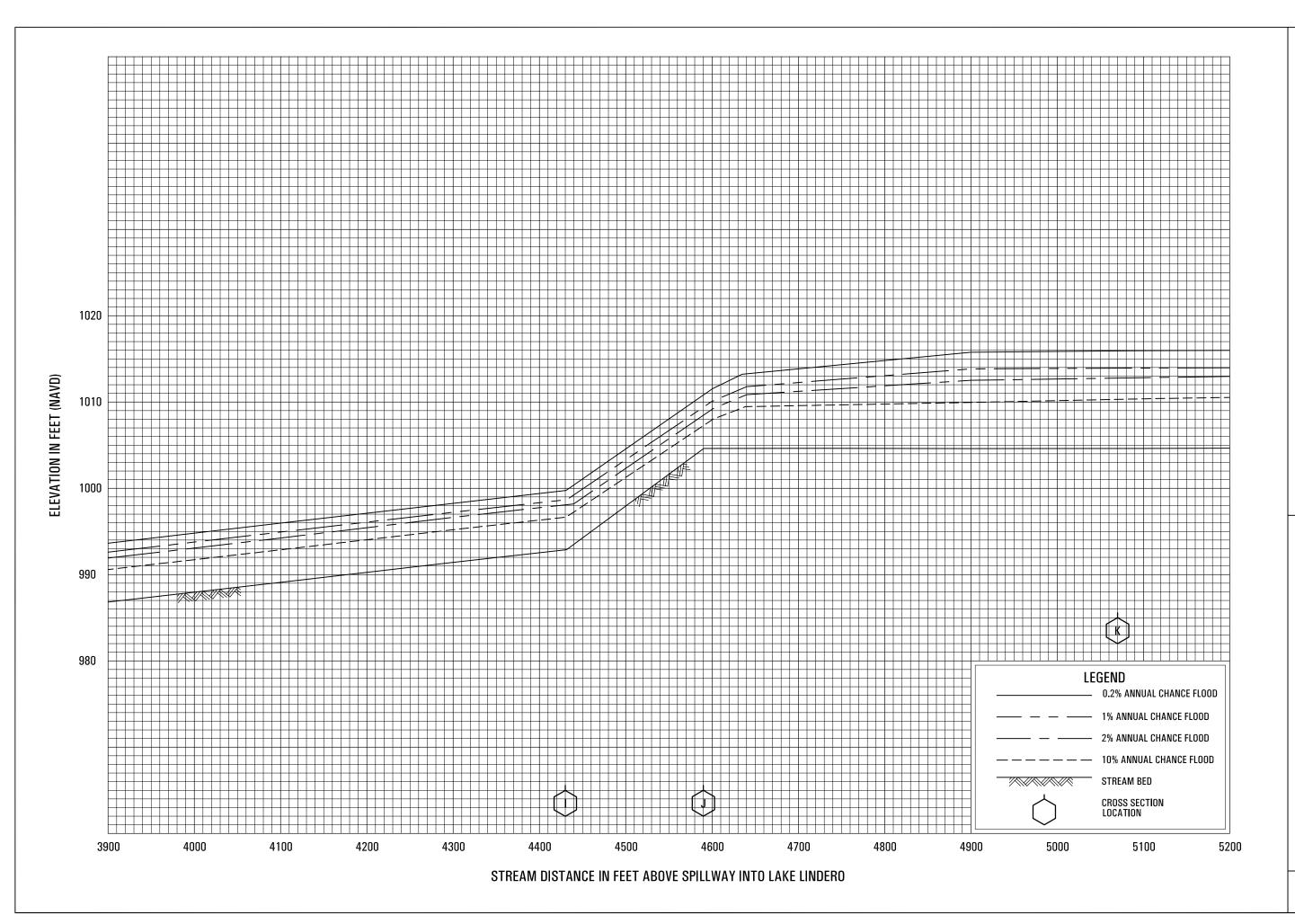
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AND INCORPORATED AREAS



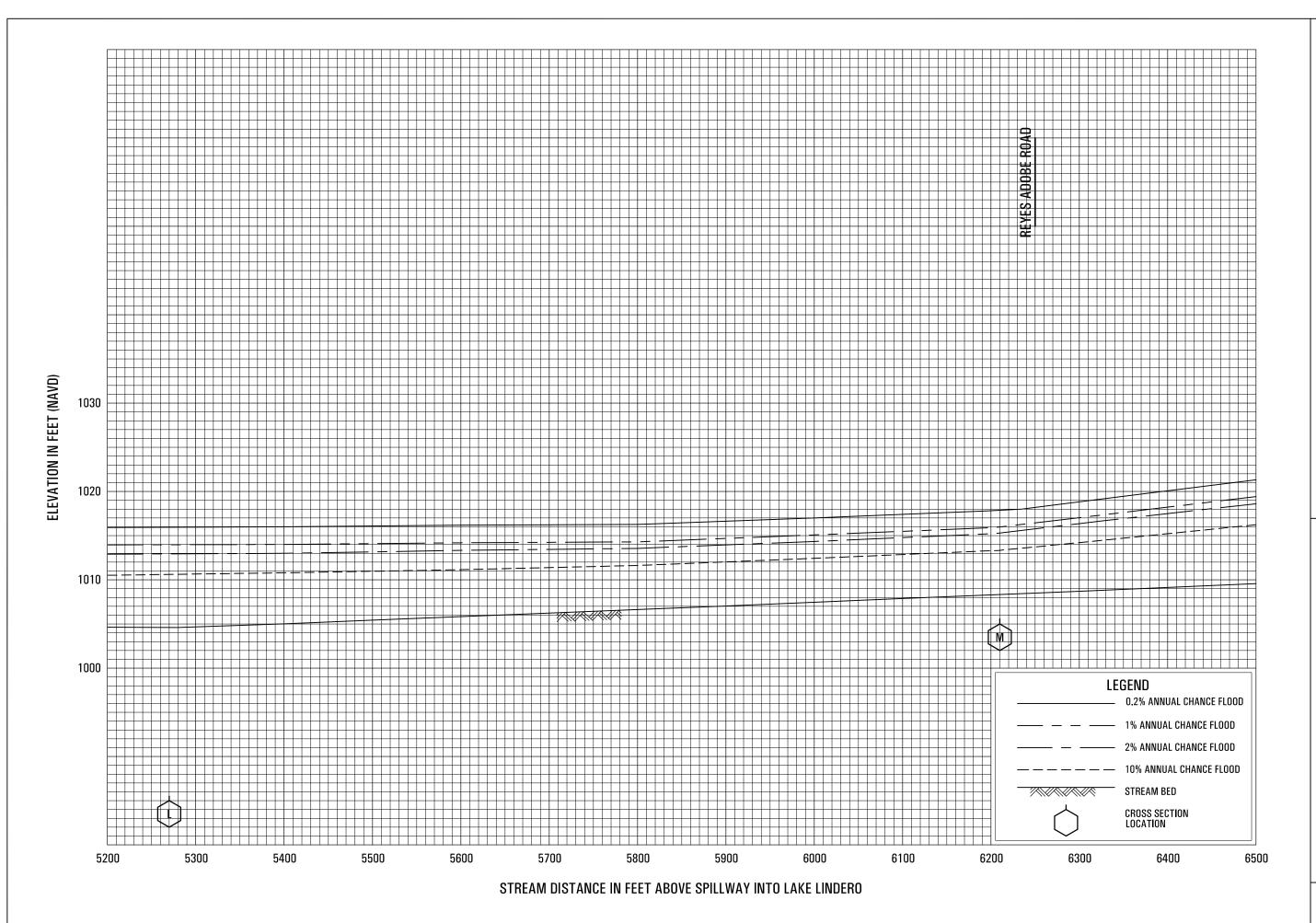
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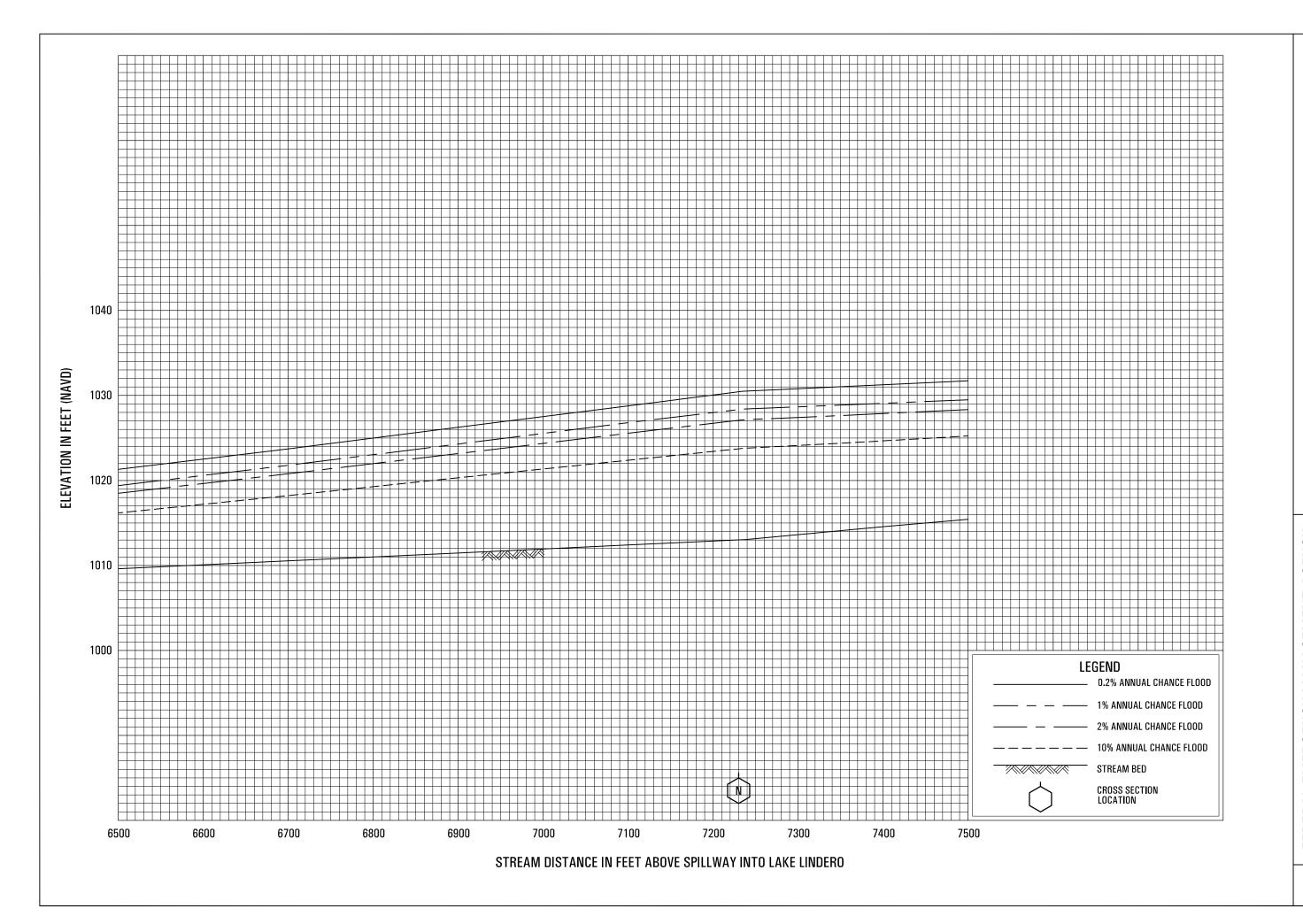
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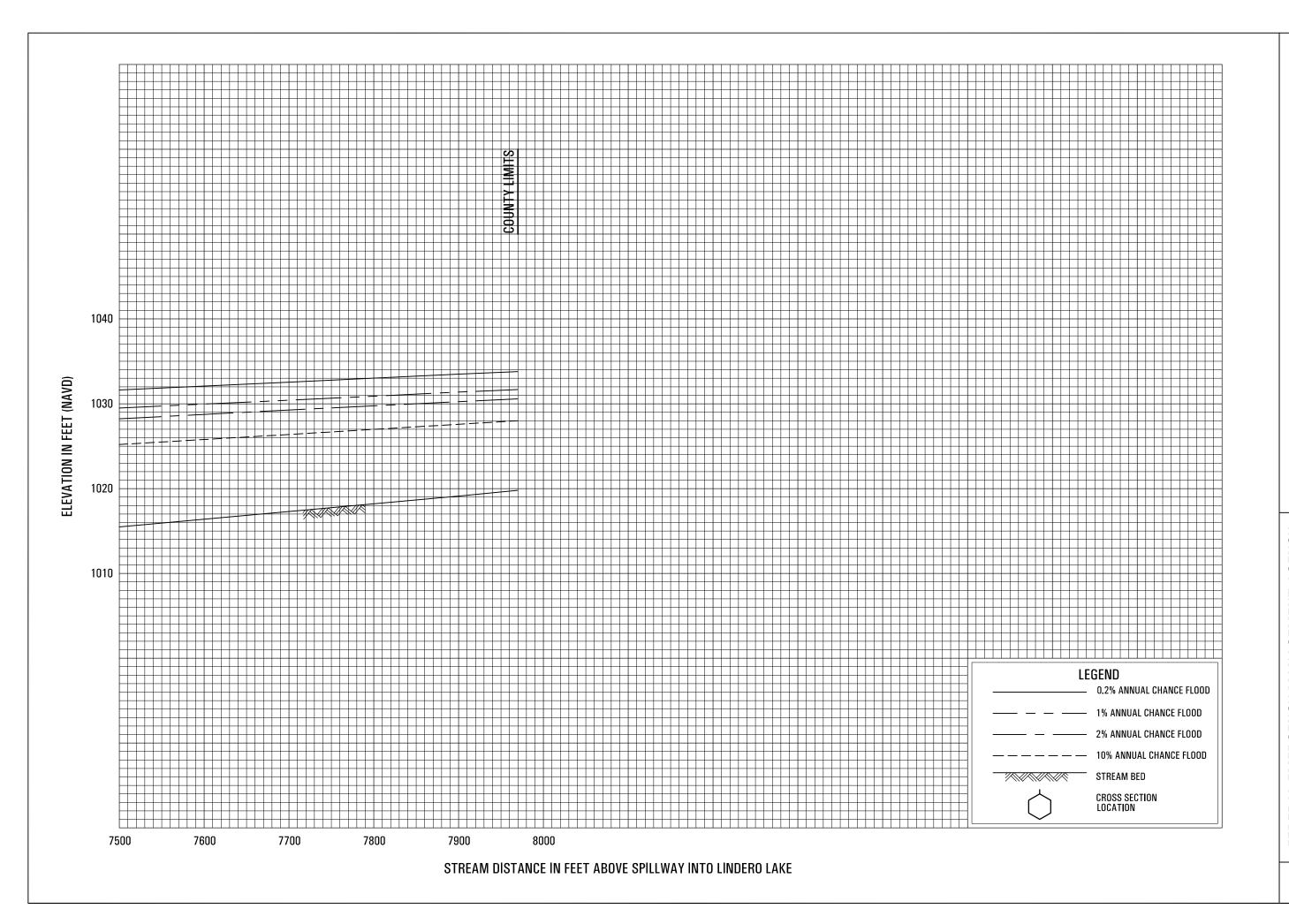
**LINDERO CANYON ABOVE LAKE LINDERO** 

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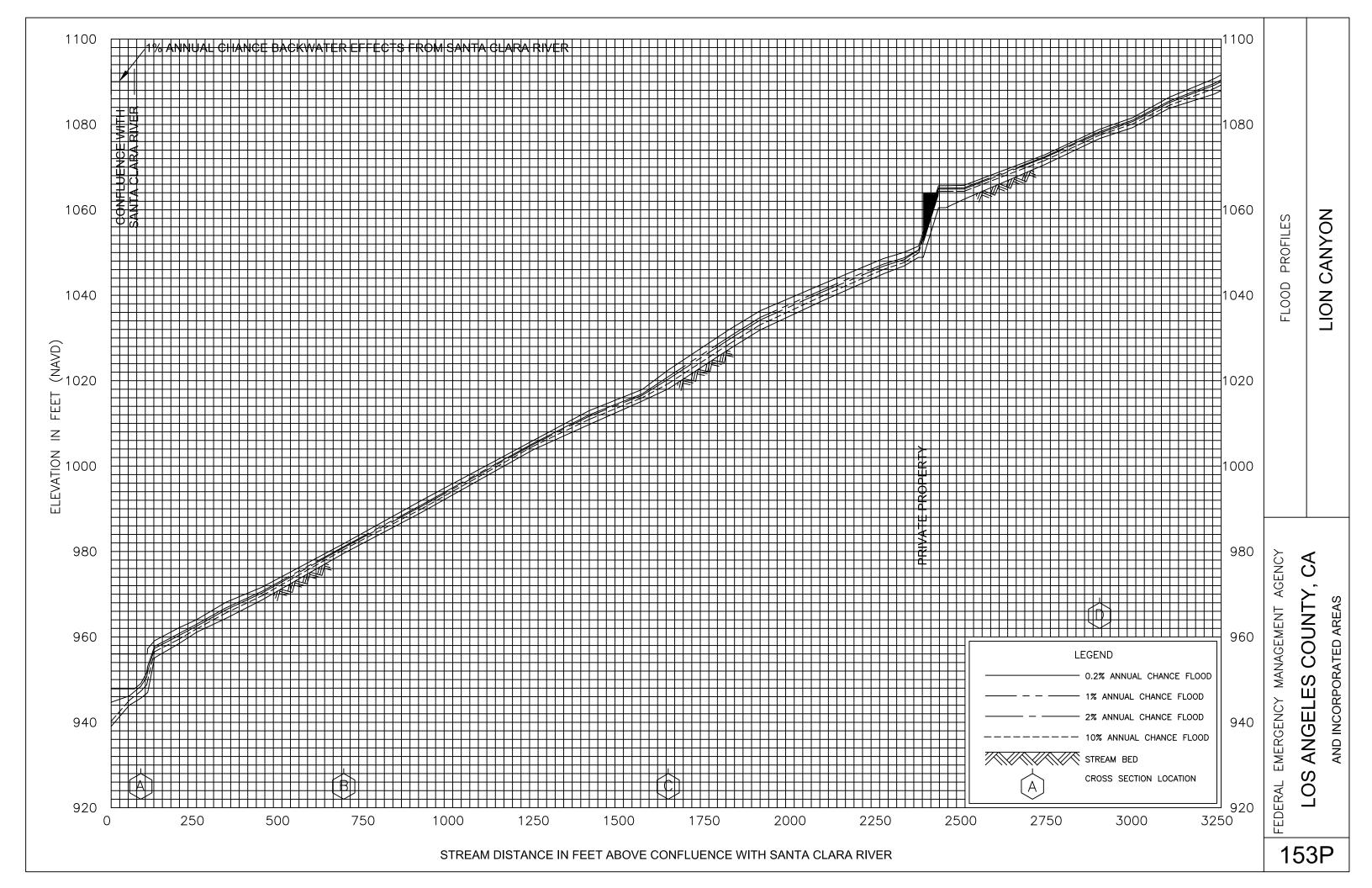
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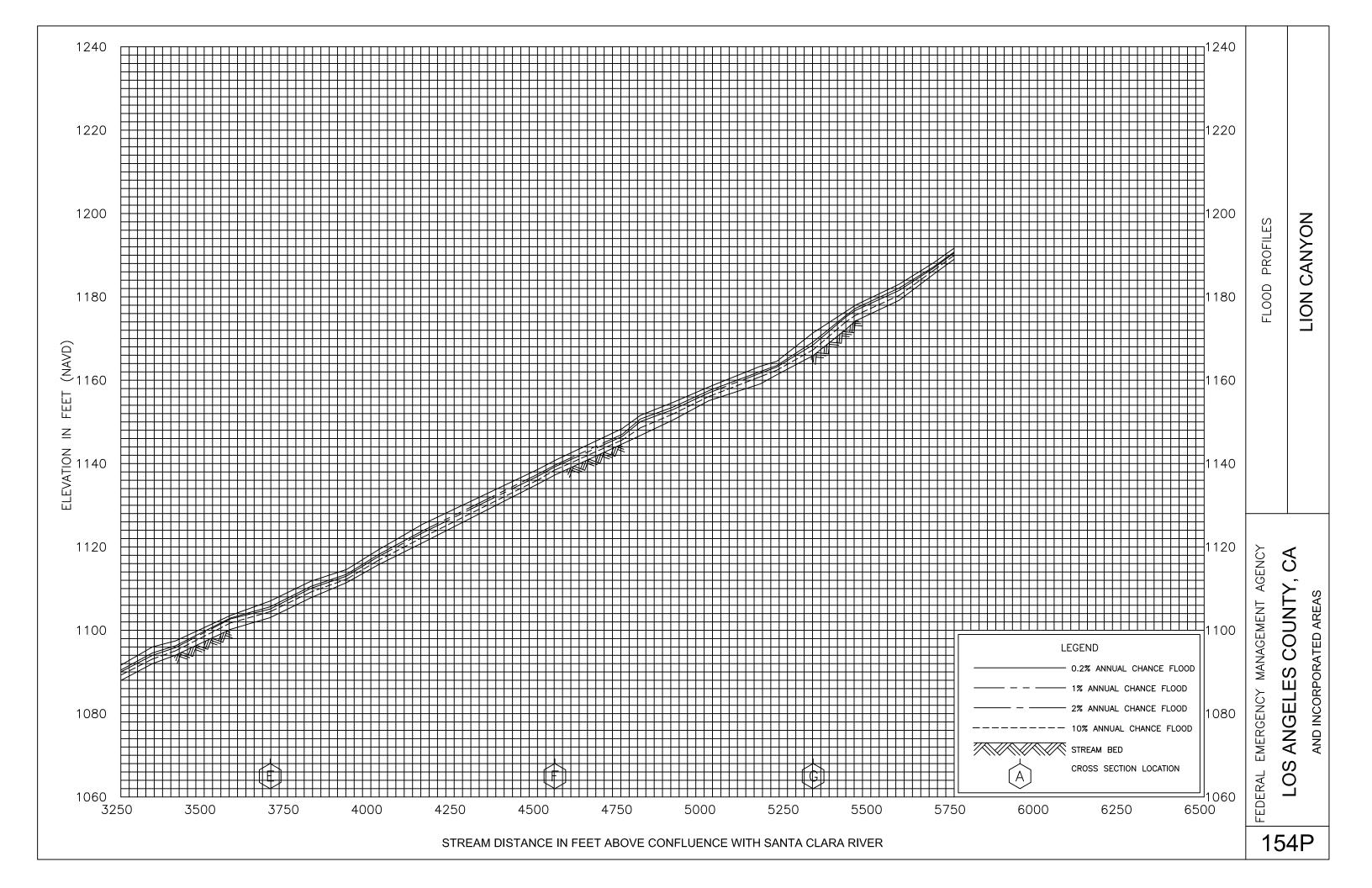
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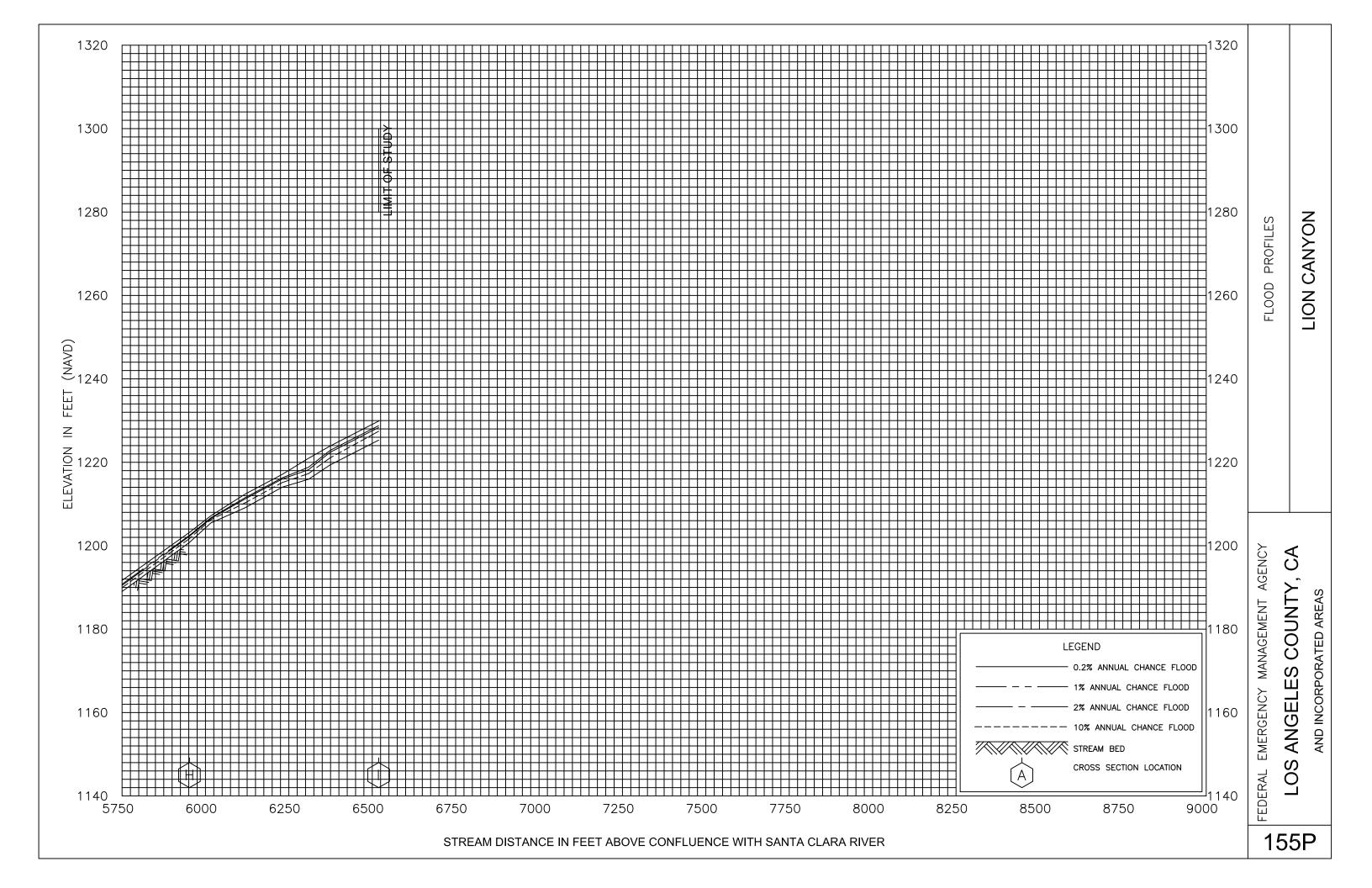


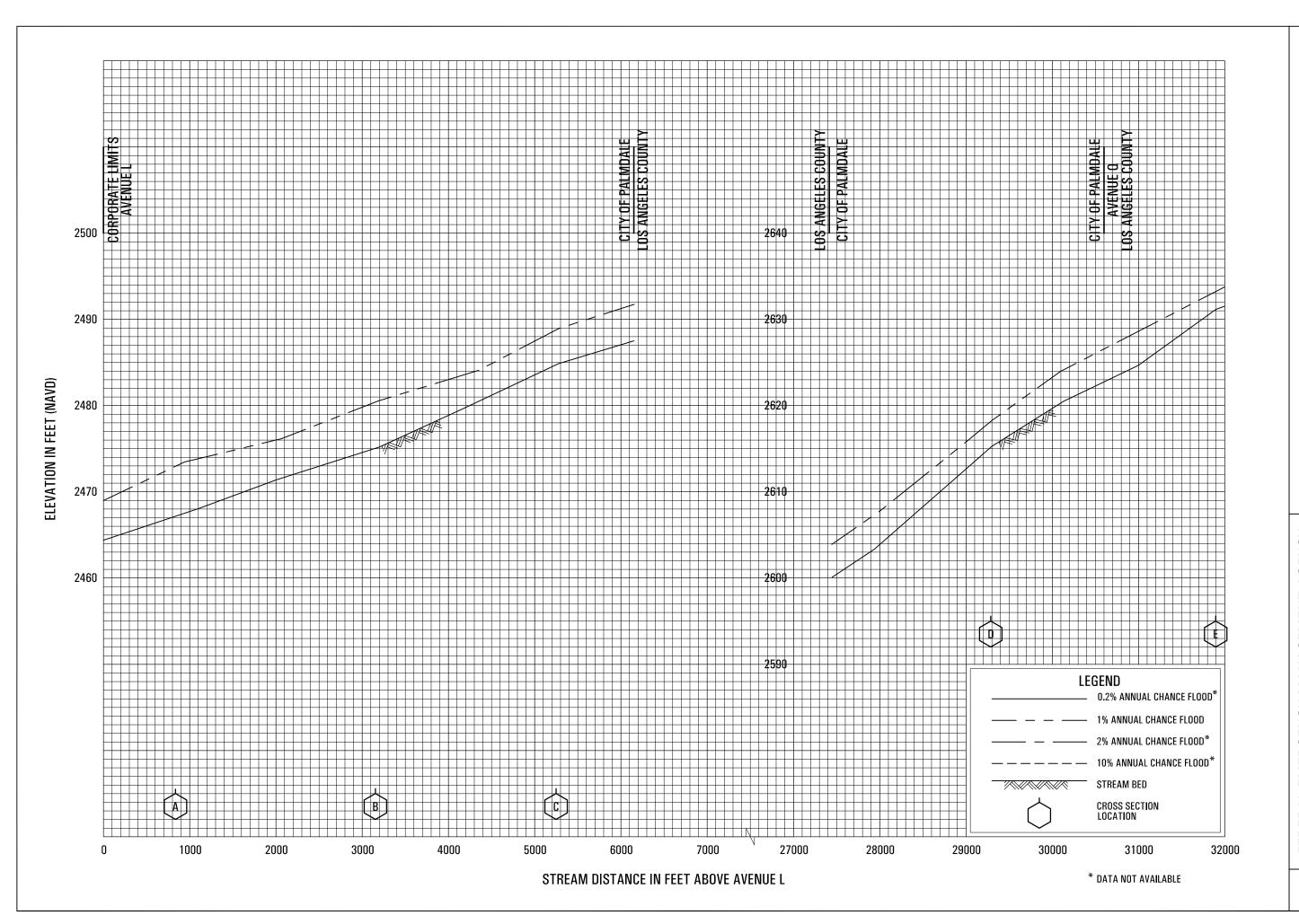
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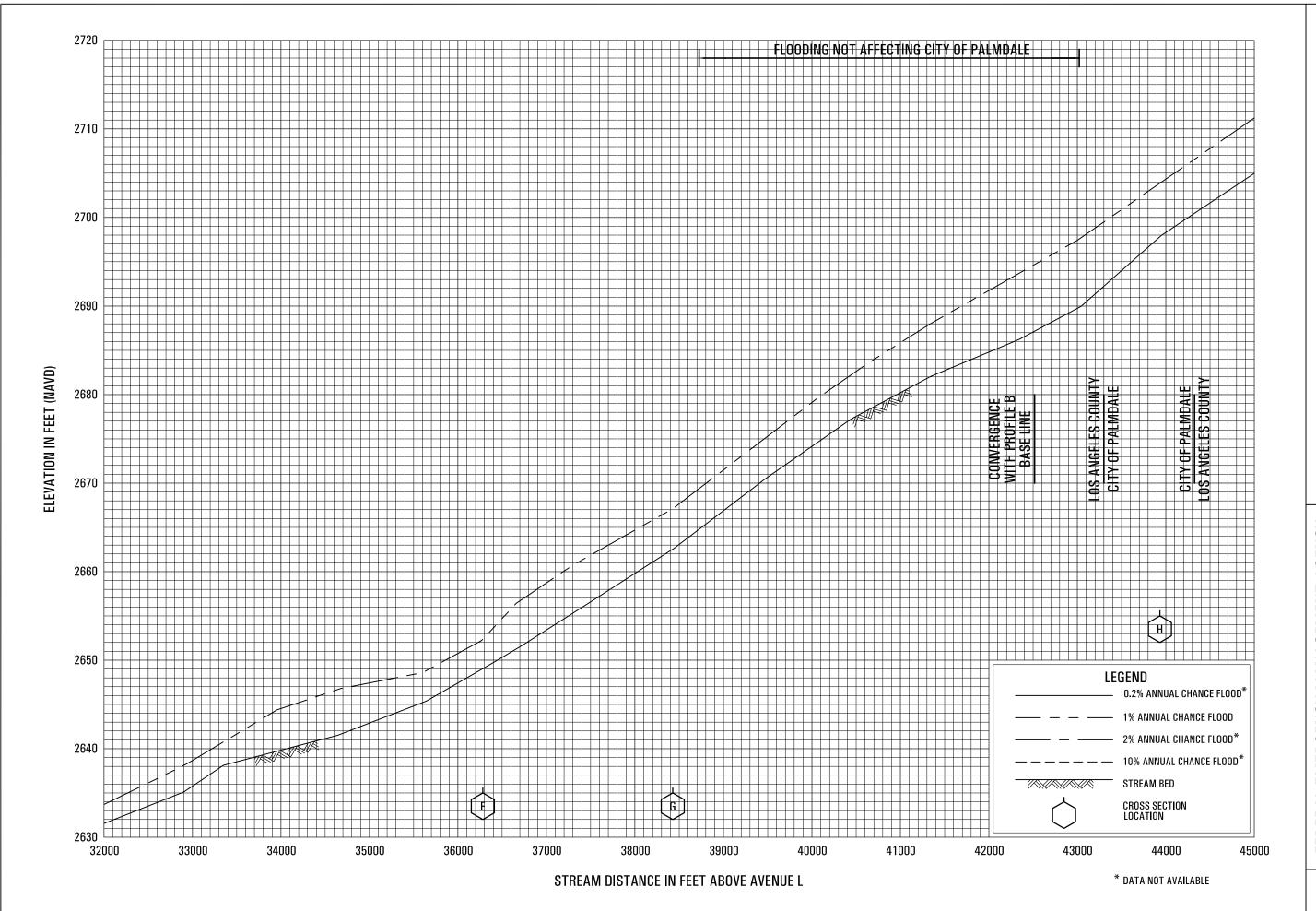






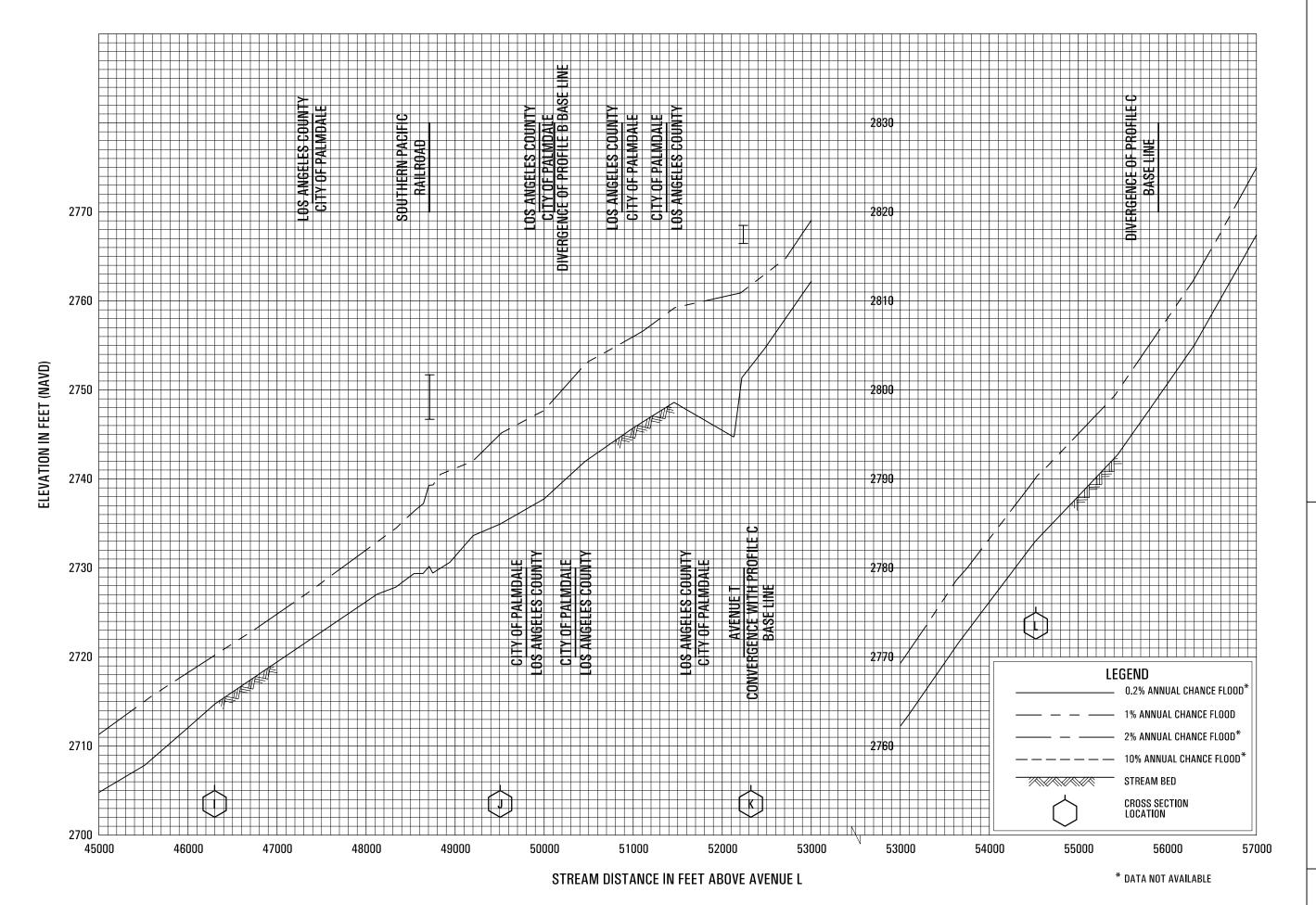
LITTLE ROCK WASH - PROFILE A

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AND INCORPORATED AREAS



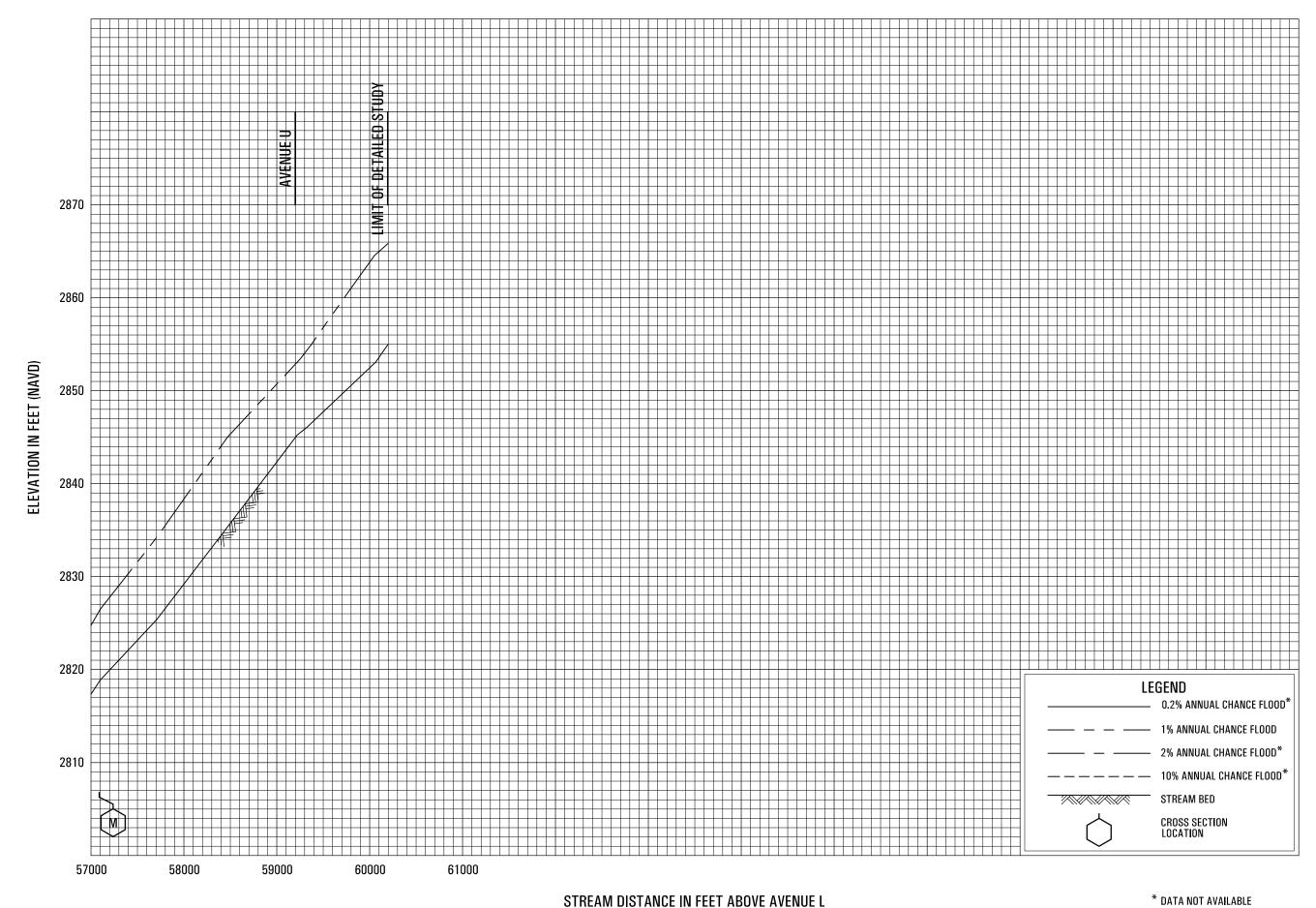
LITTLE ROCK WASH - PROFILE A

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LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



LITTLE ROCK WASH - PROFILE A

FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



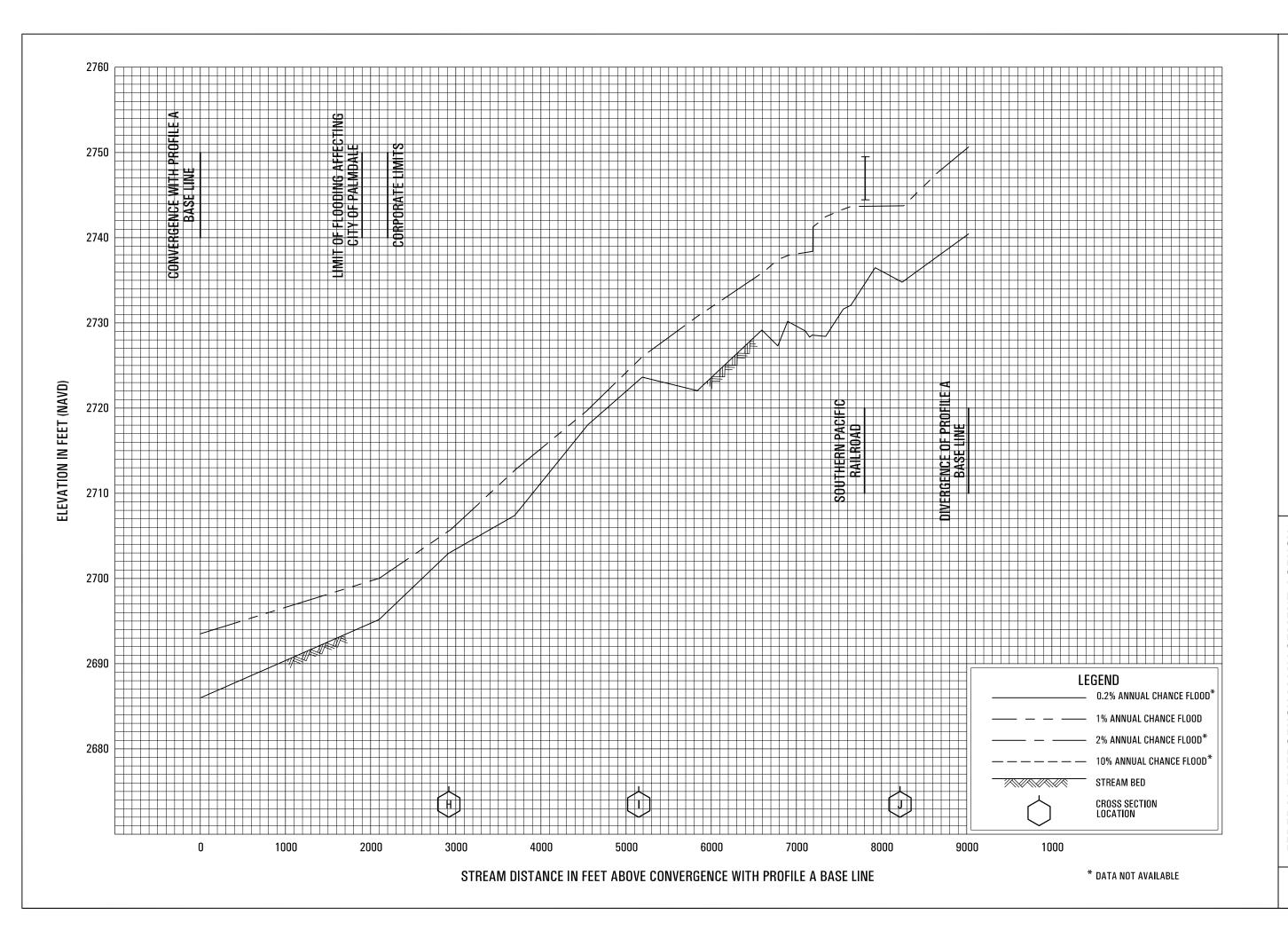
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FEDERAL EMERGENCY MANAGEMENT AGENCY

LOS ANGELES COUNTY, CA AND INCORPORATED AREAS

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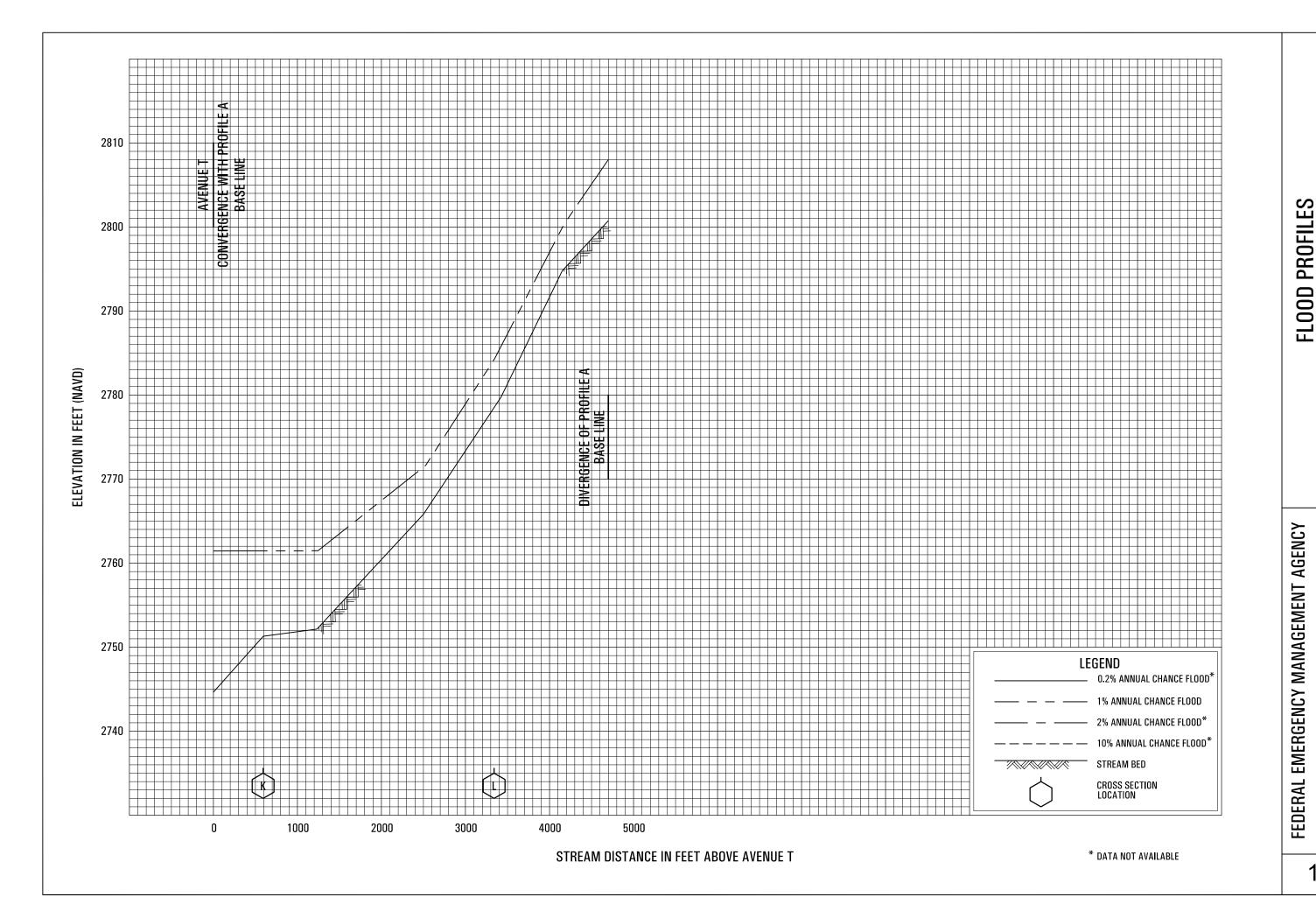


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LOS ANGELES COUNTY, CA

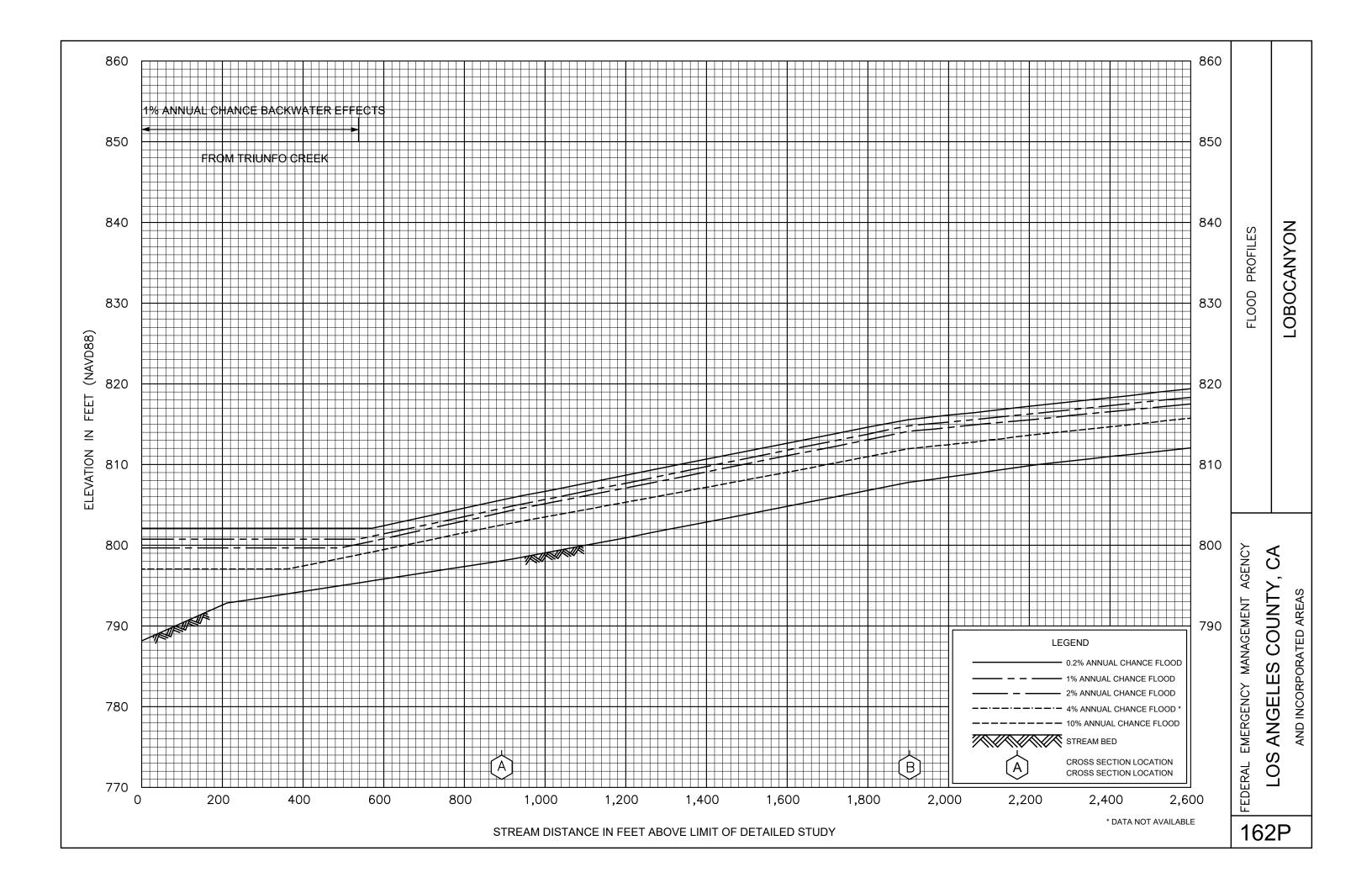
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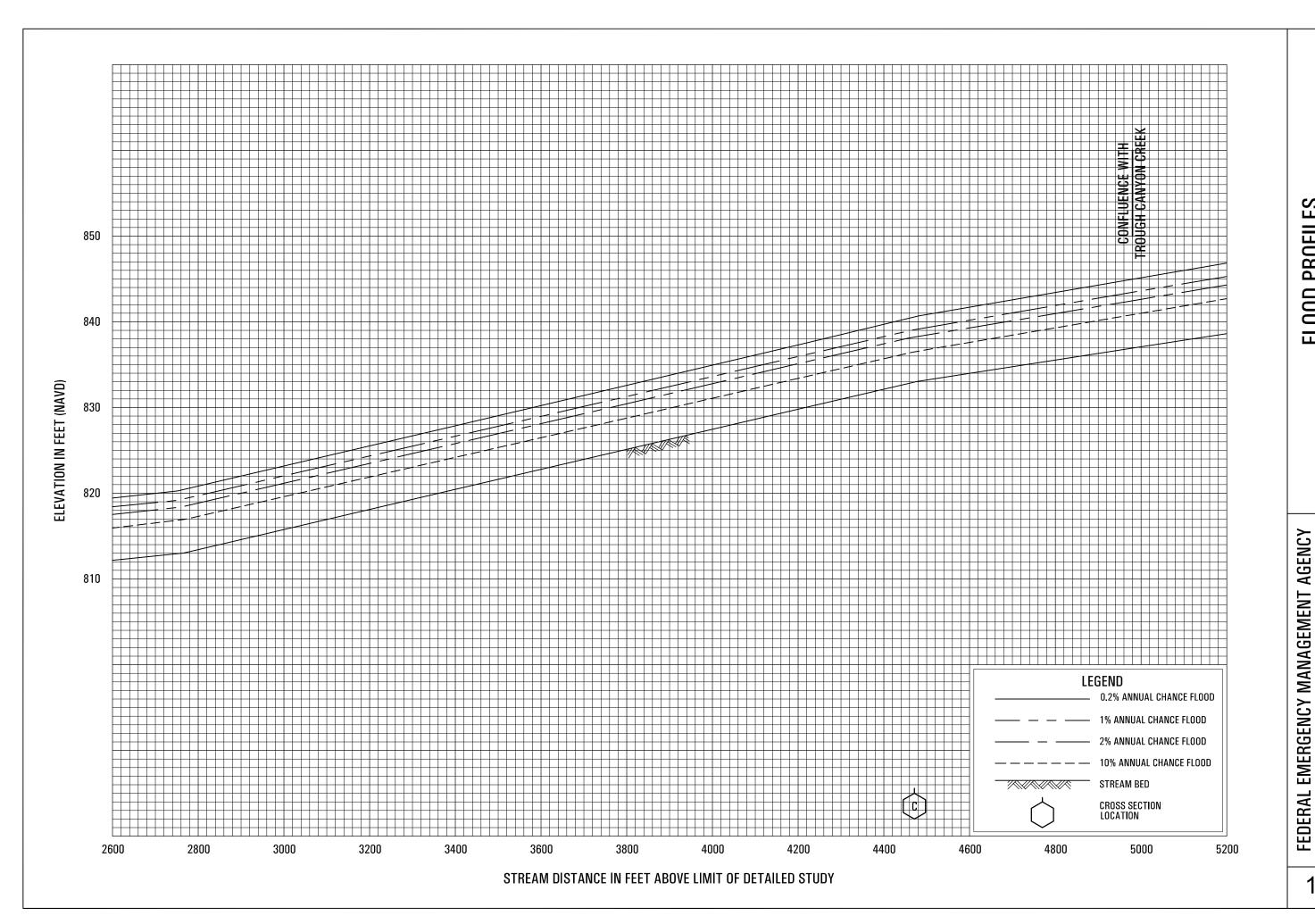


LOS ANGELES COUNTY, CA

AND INCORPORATED AREAS

LITTLE ROCK WASH - PROFILE C

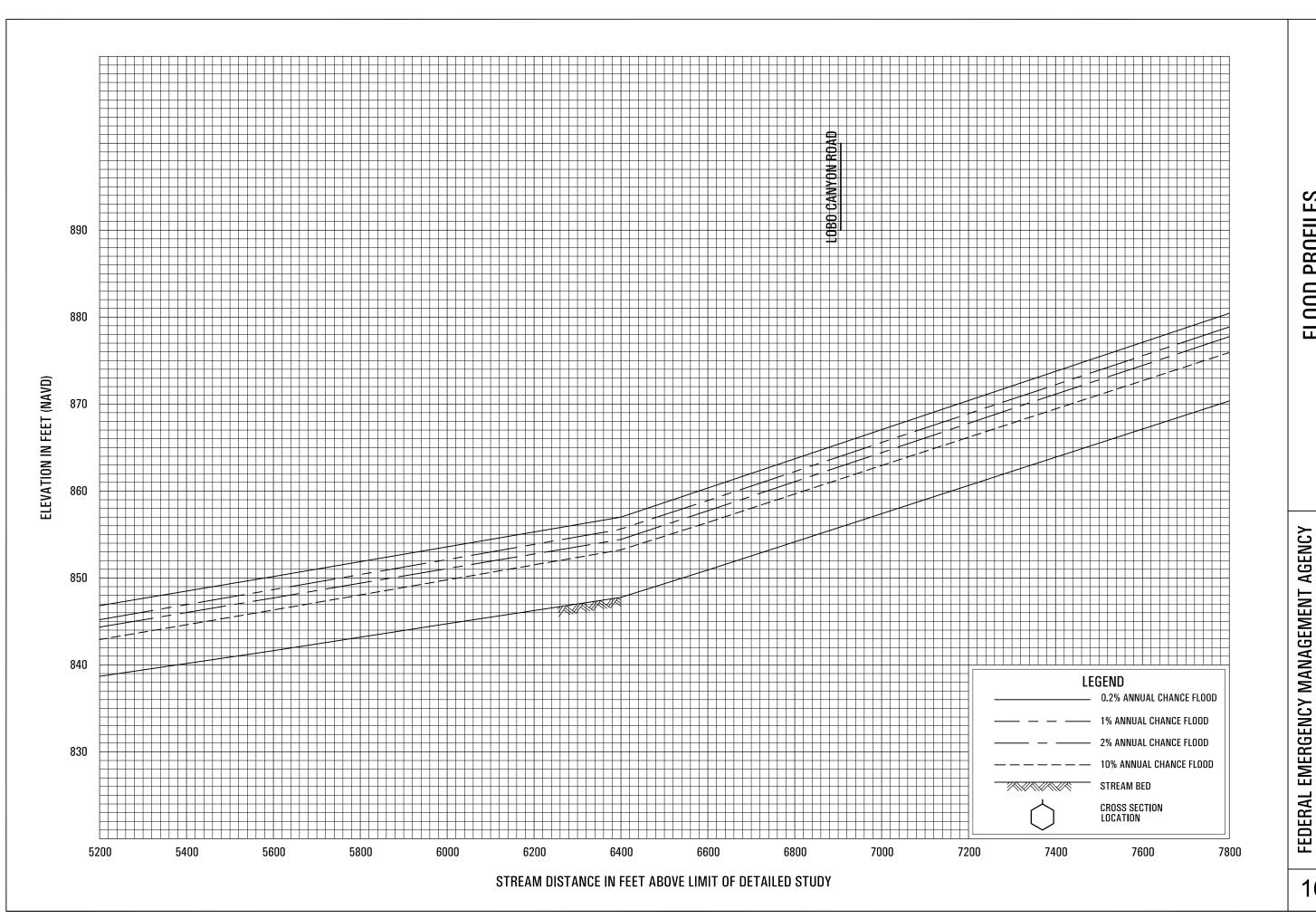




LOBO CANYON

LOS ANGELES COUNTY, CA

AND INCORPORATED AREAS

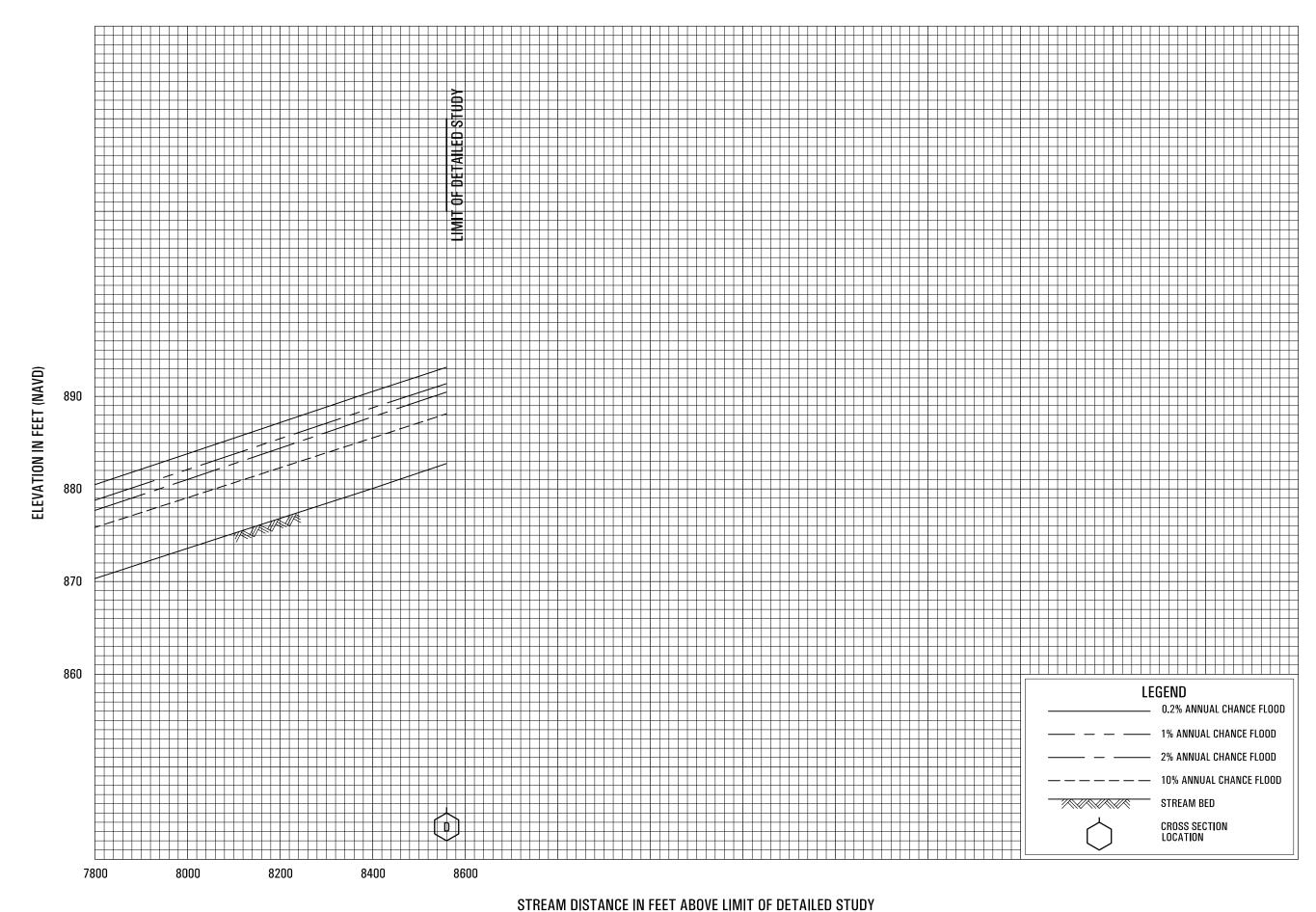


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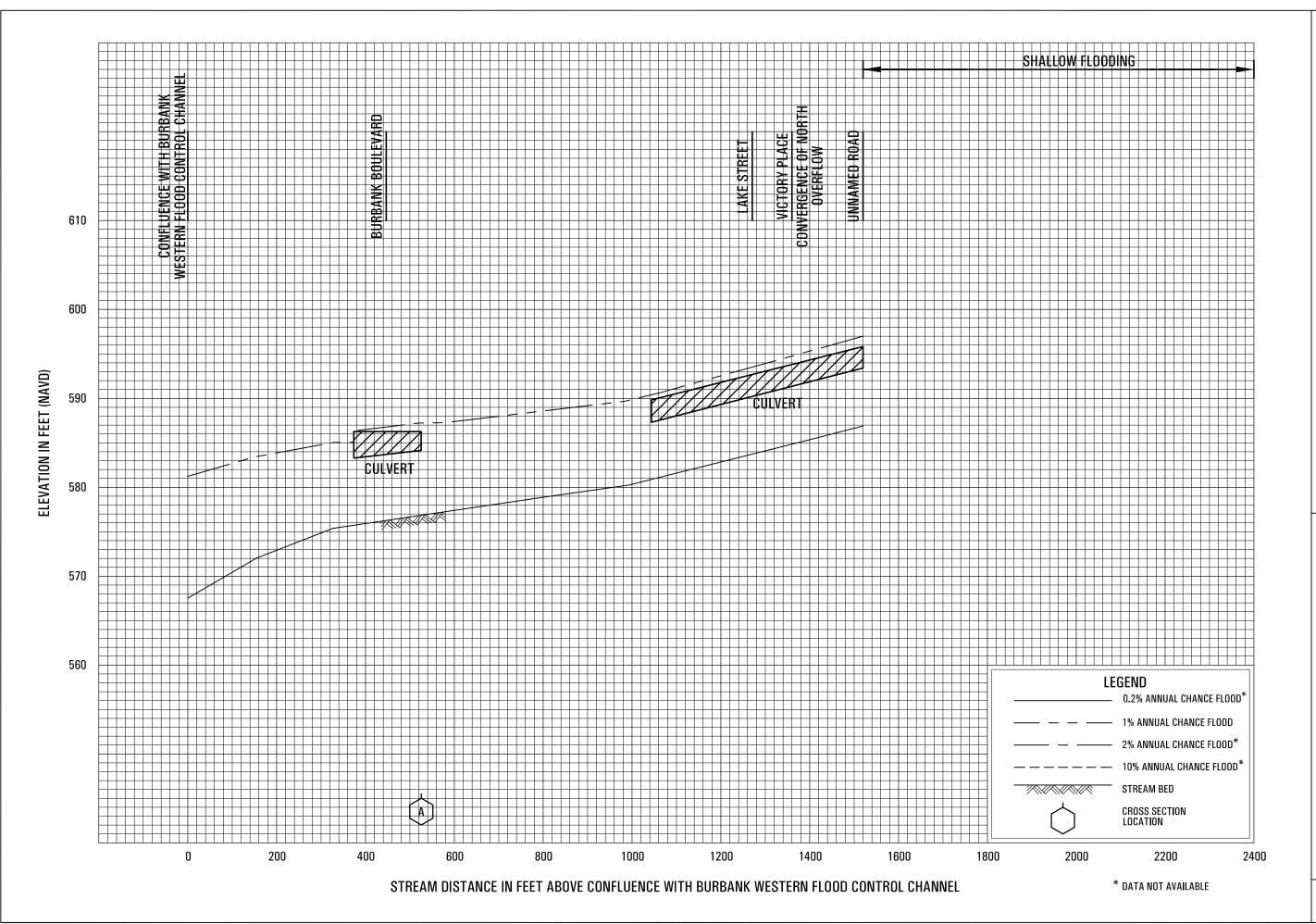
LOS ANGELES COUNTY, CA

AND INCORPORATED AREAS



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FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CA AND INCORPORATED AREAS

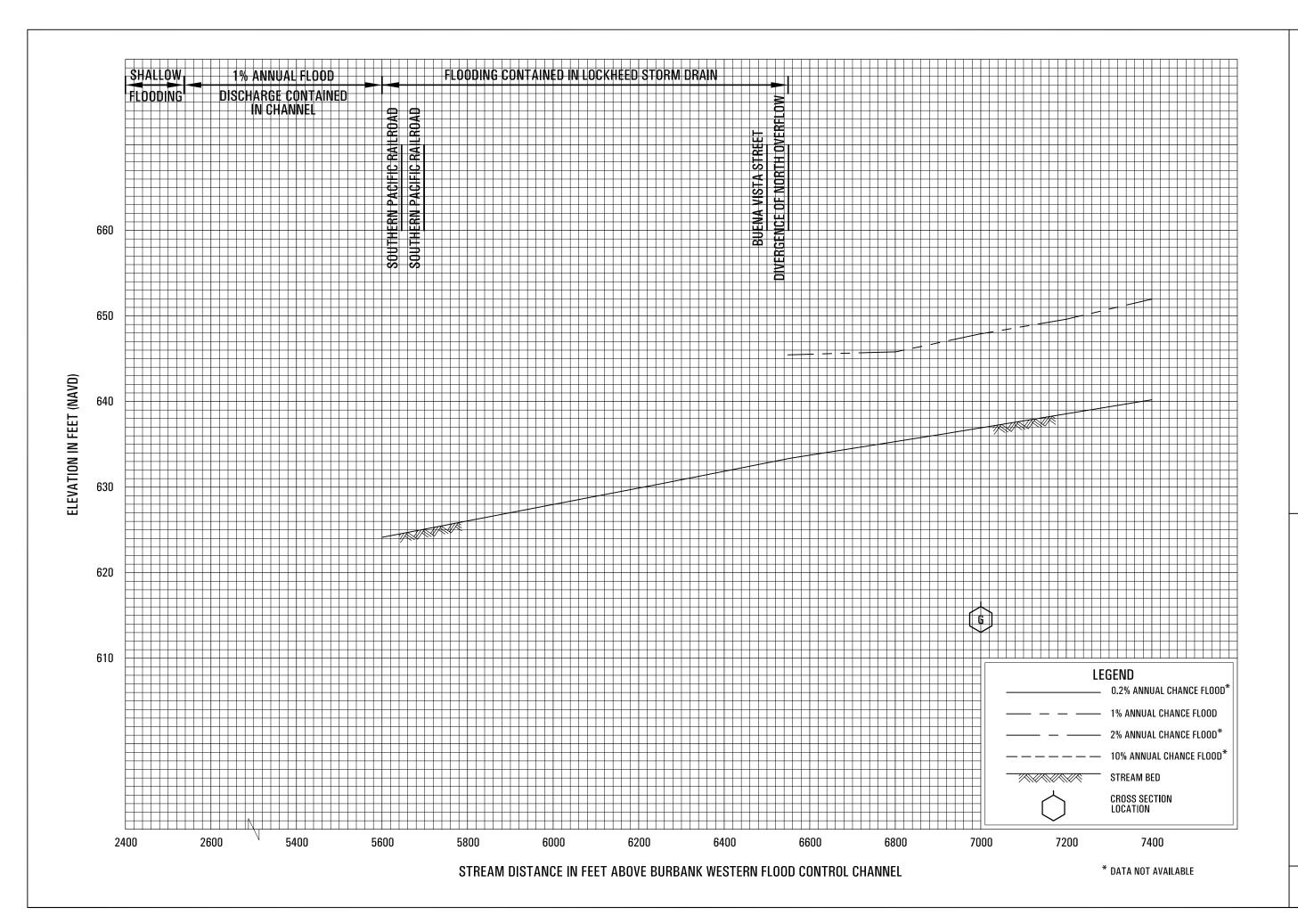


LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS

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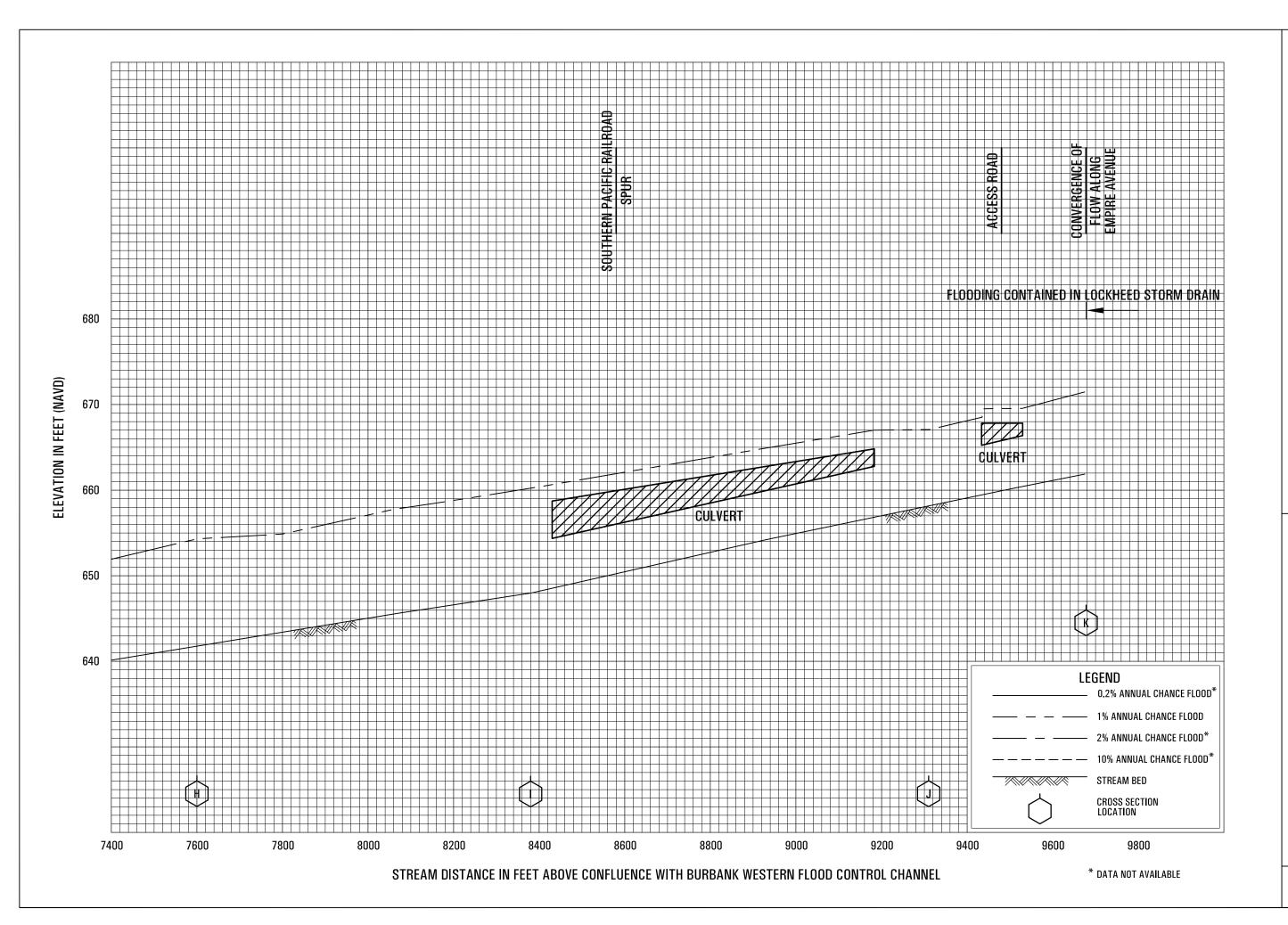
FLOOD PROFILES

FEDERAL EMERGENCY MANAGEMENT AGENCY



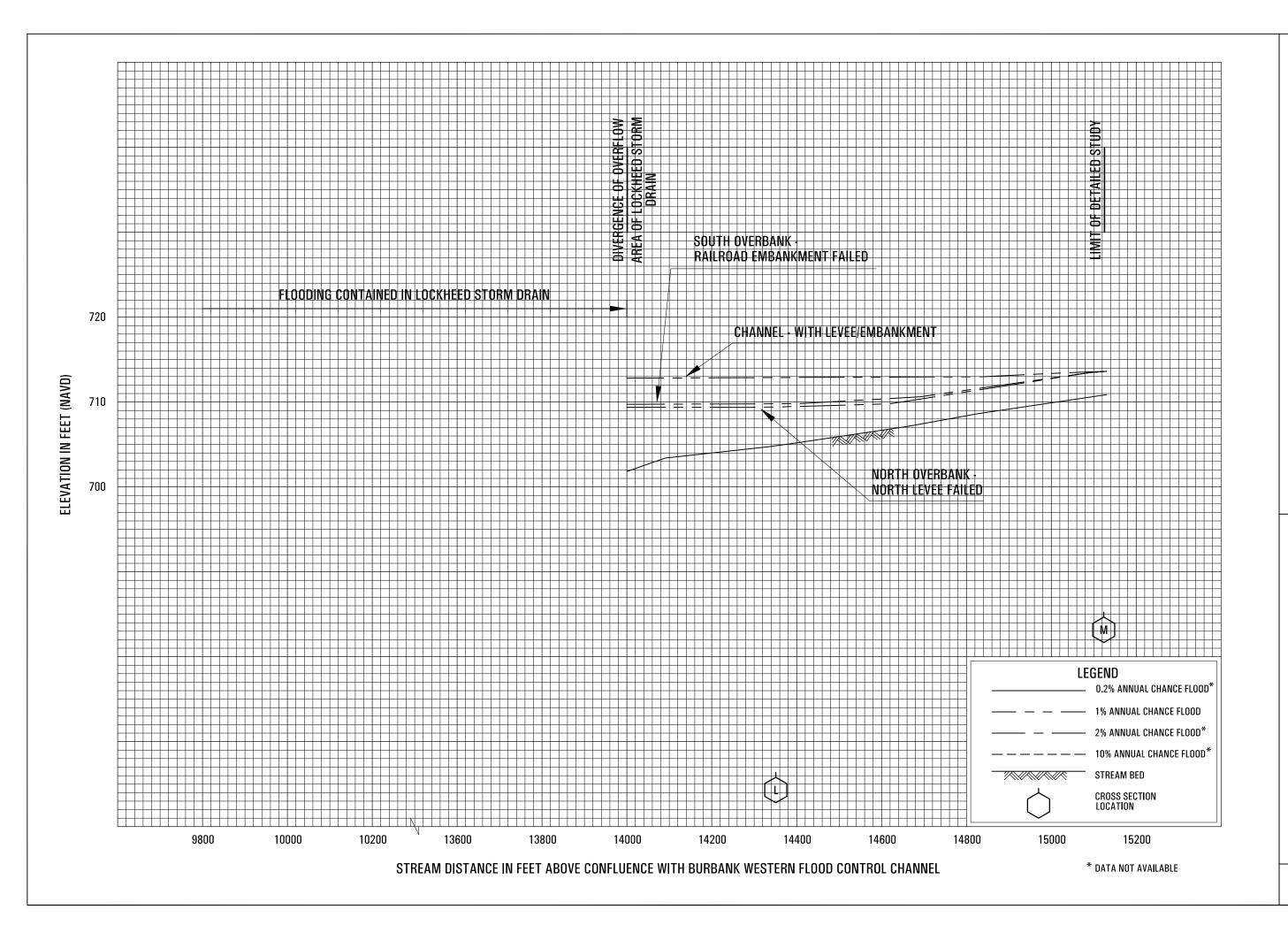
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LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



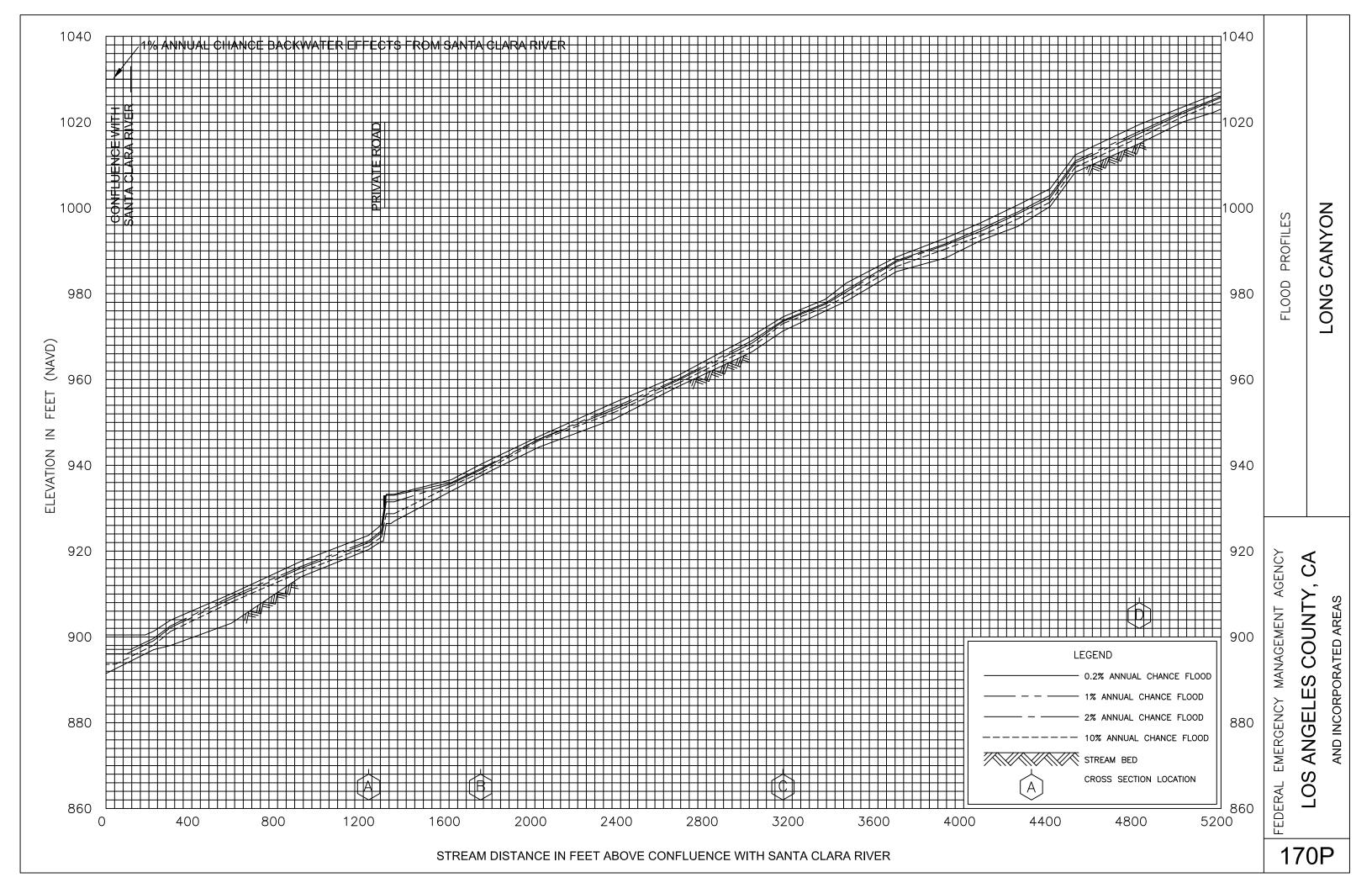
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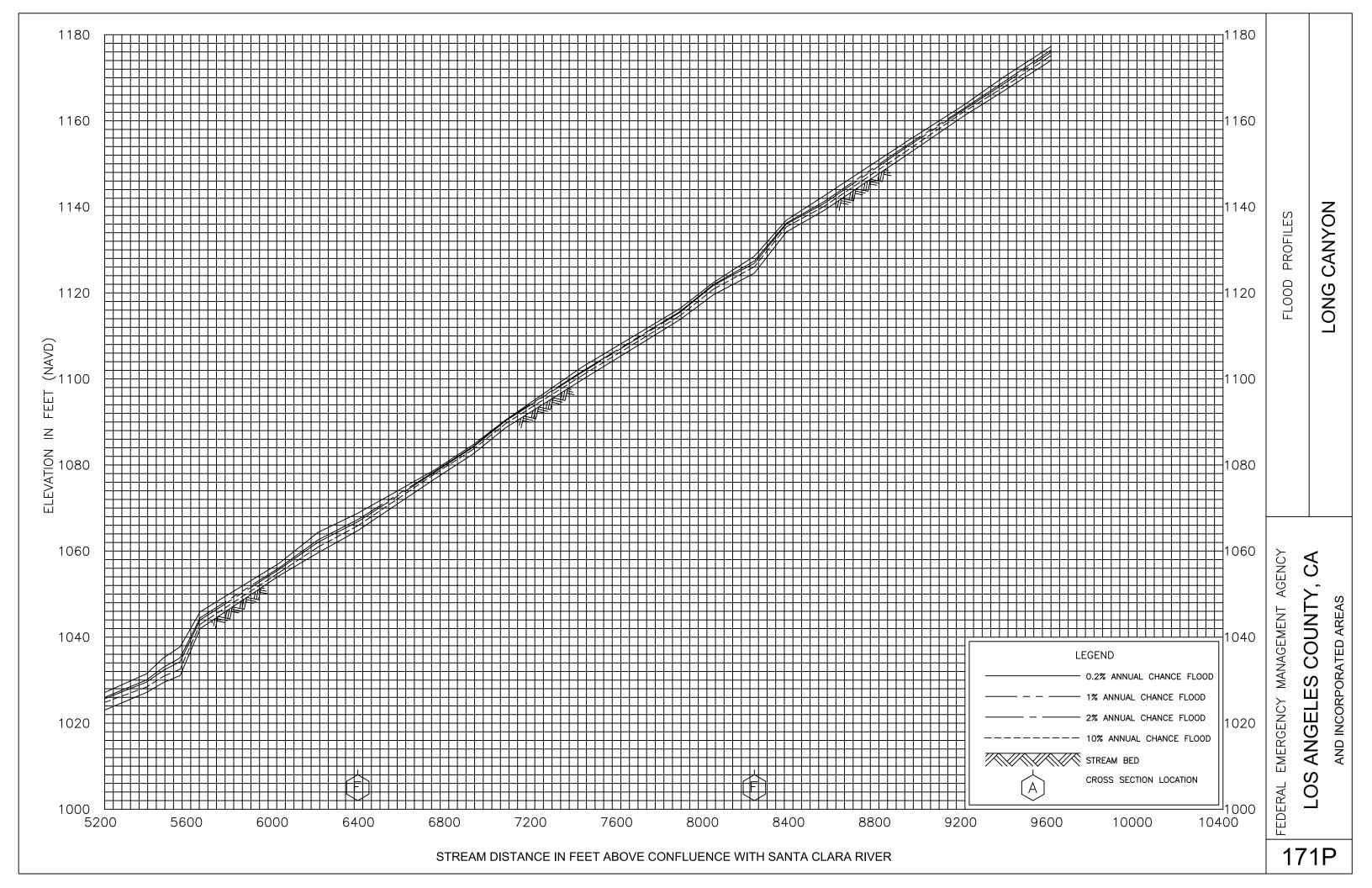
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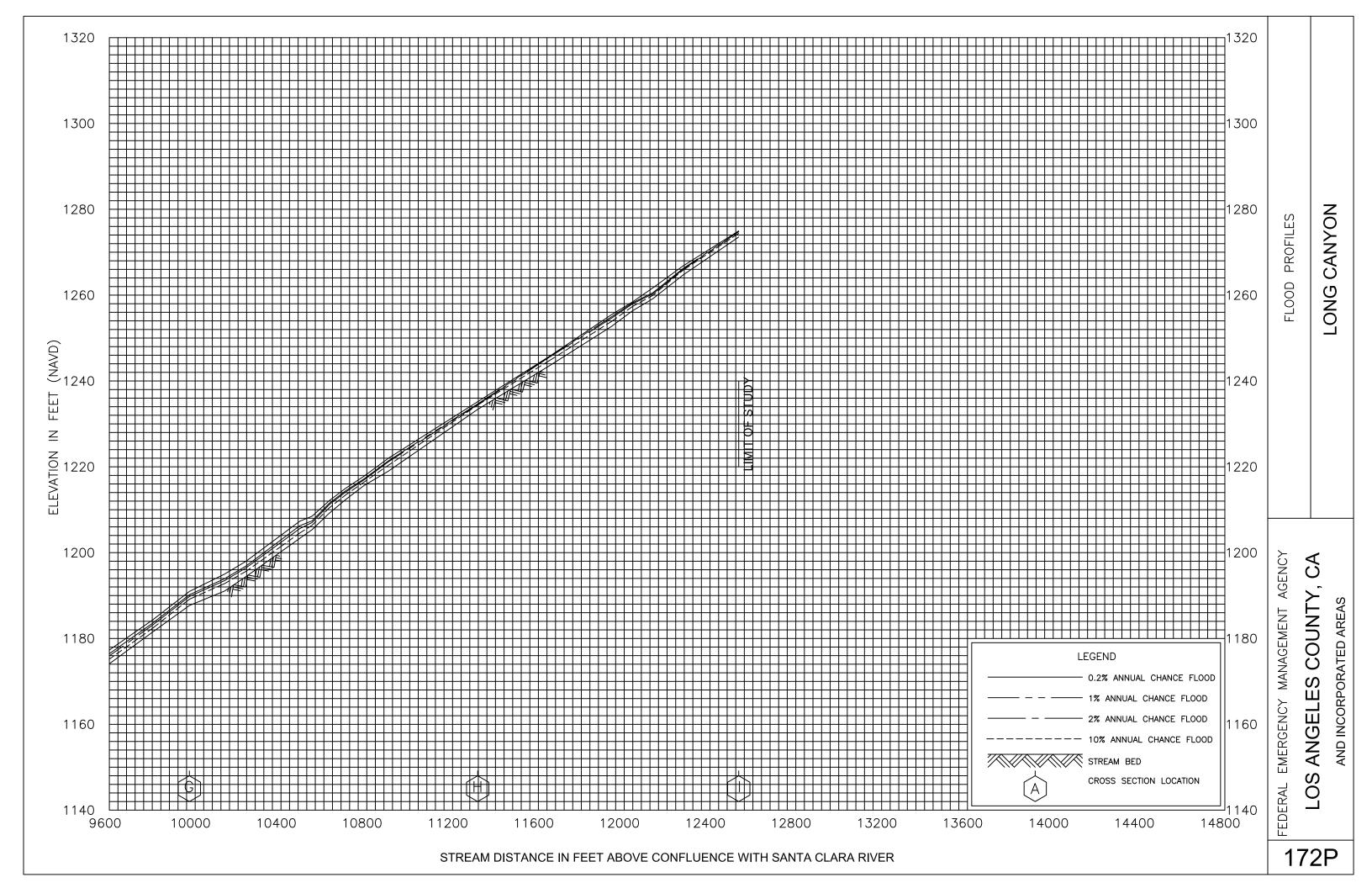


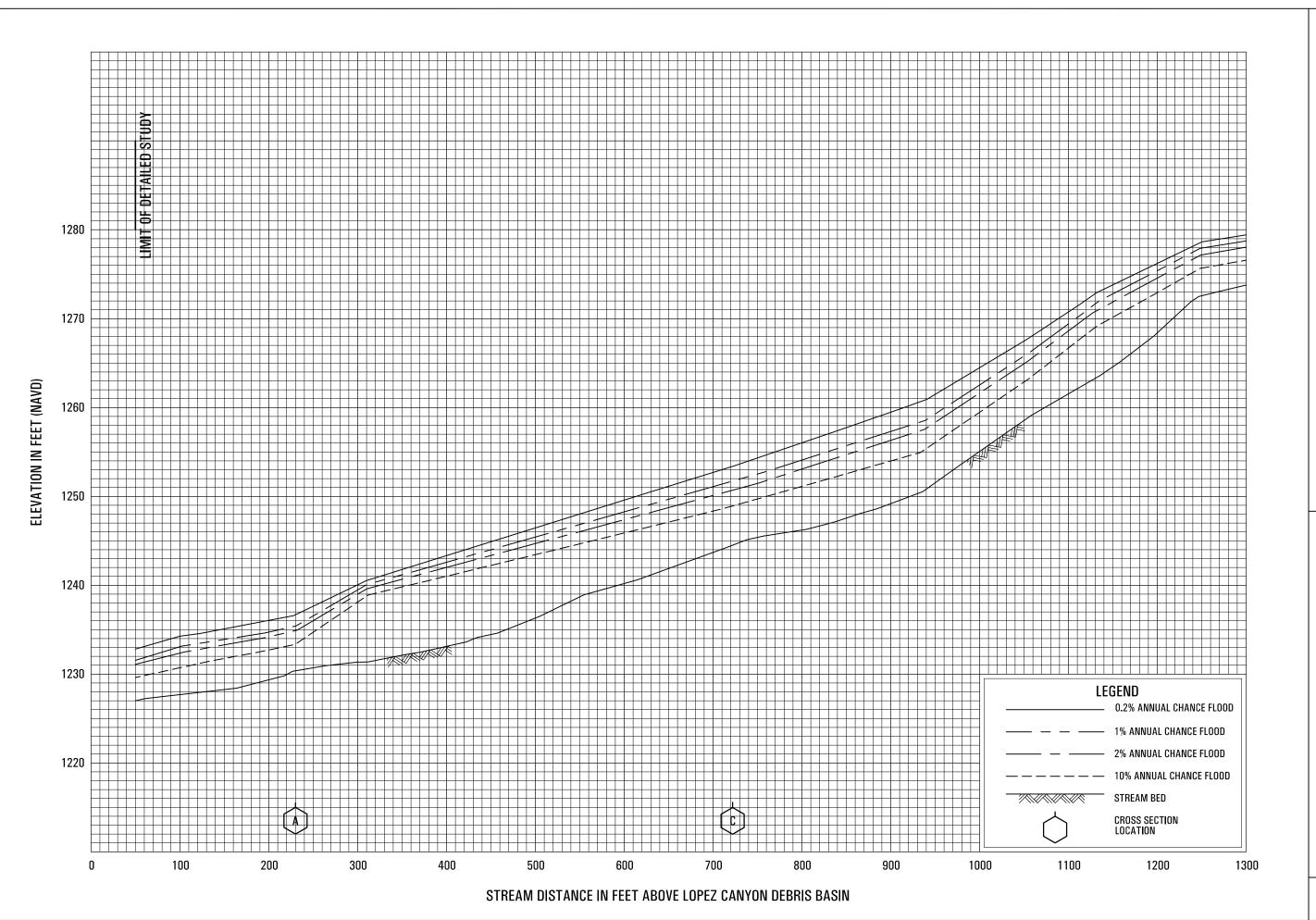
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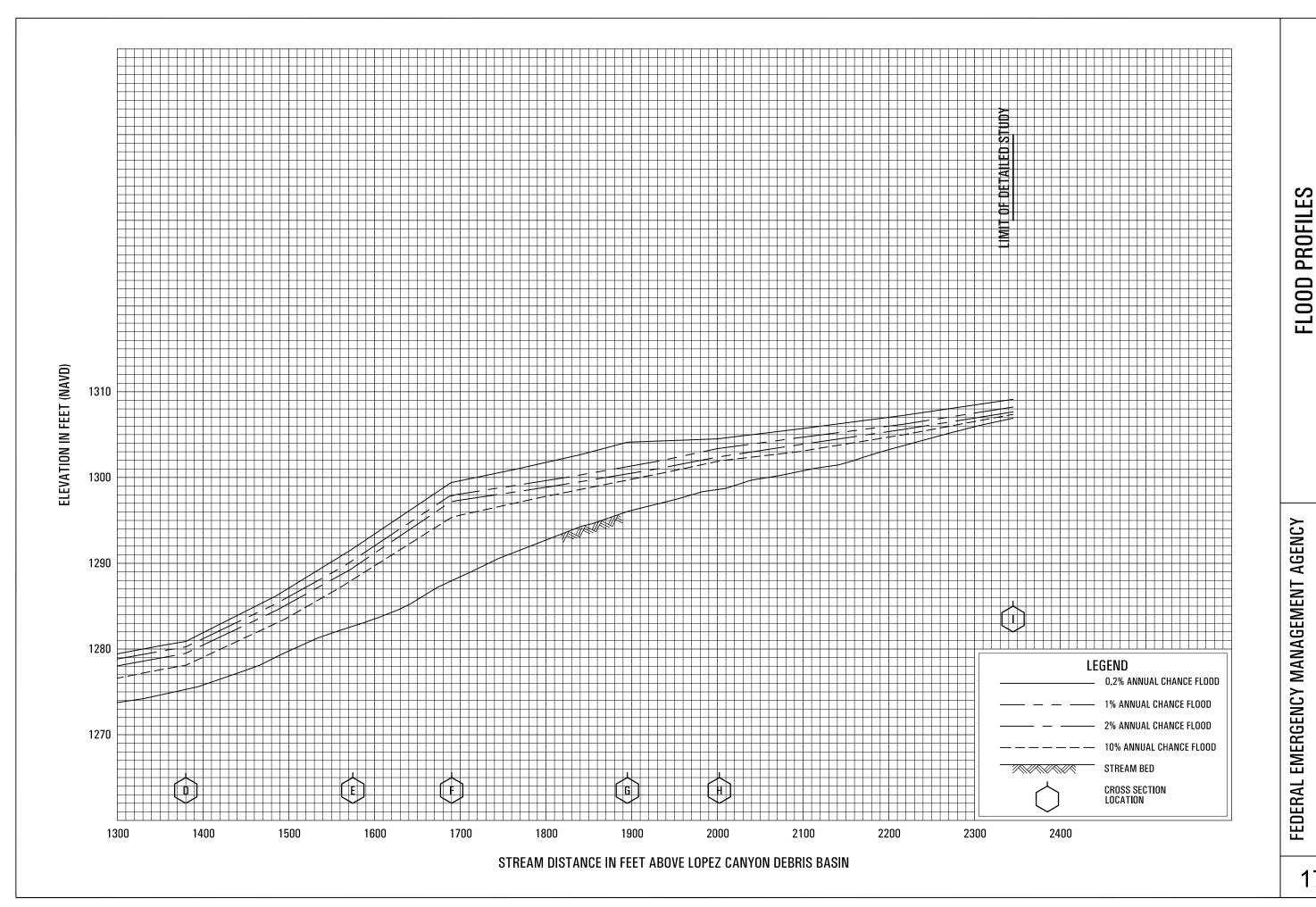




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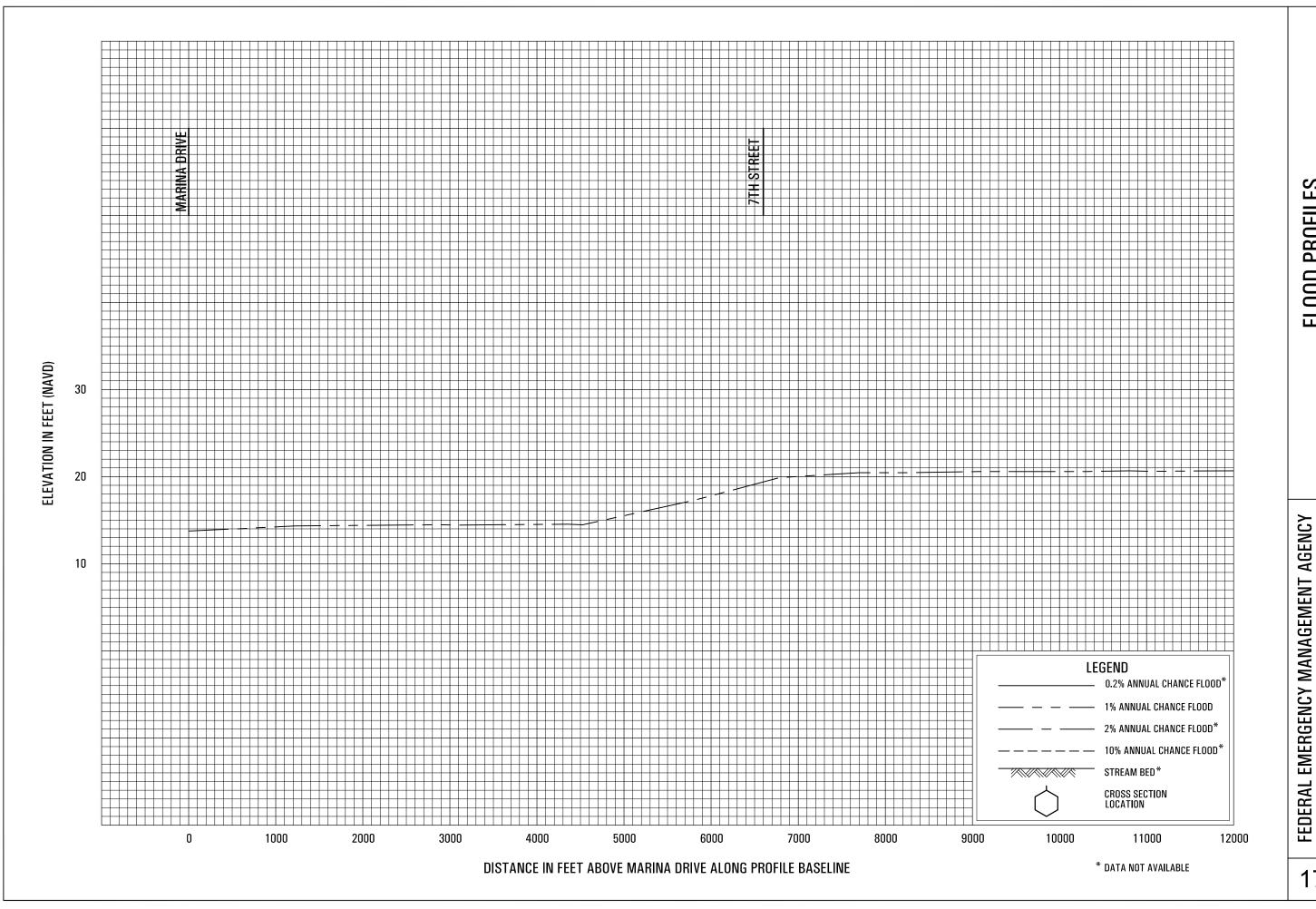
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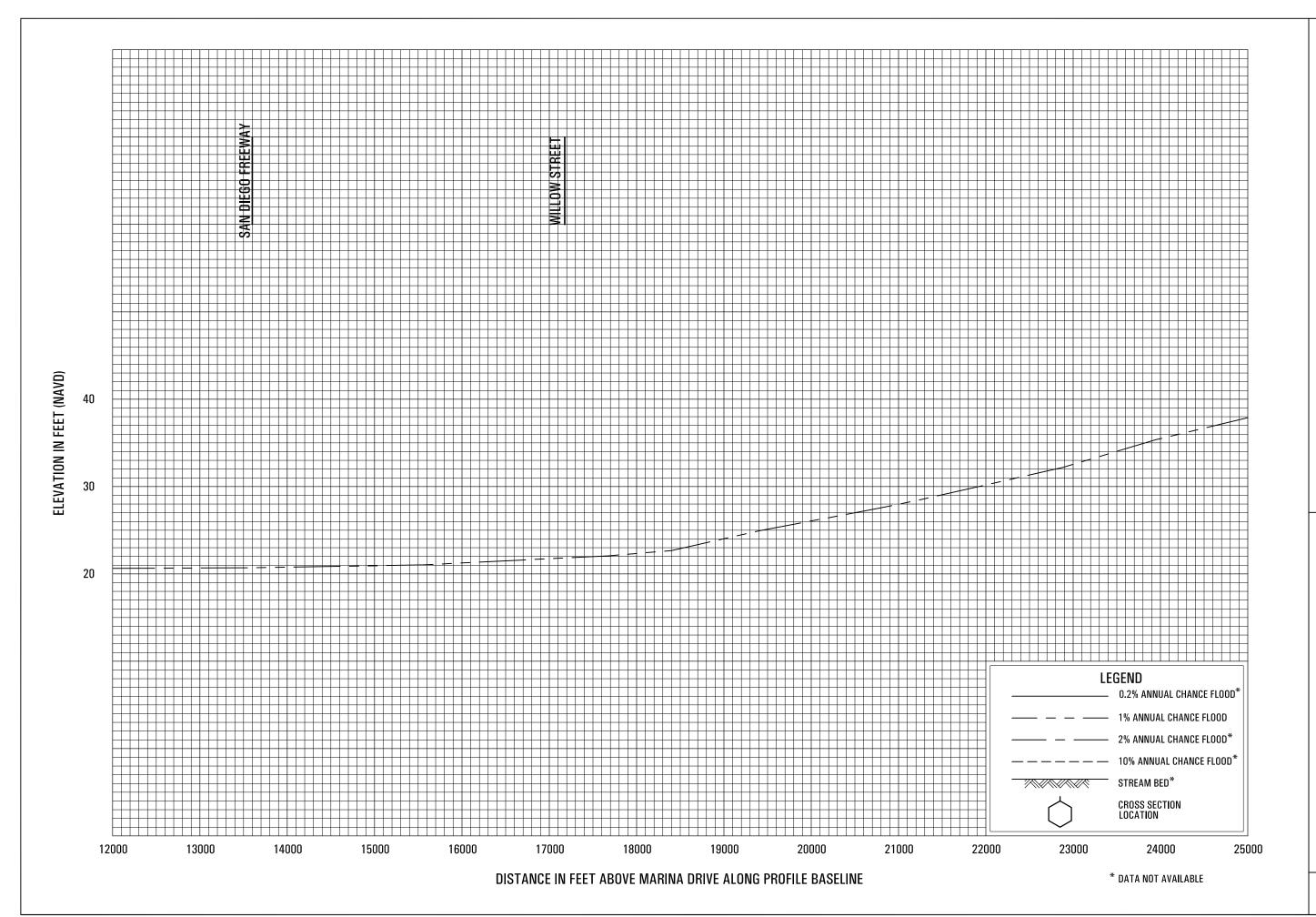
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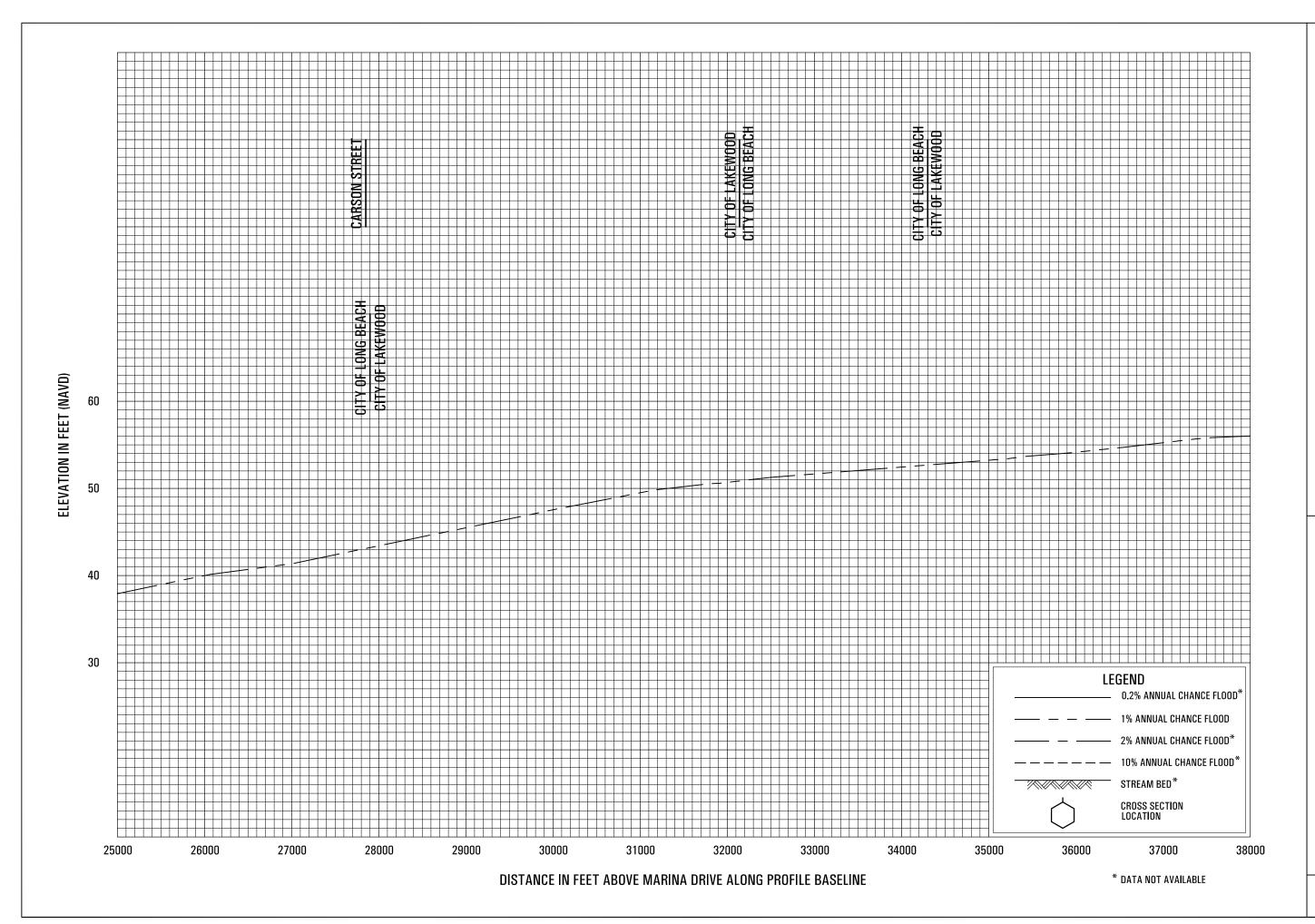
LOS ANGELES RIVER LEFT OVERBANK PATH 2

LOS ANGELES COUNTY, CA AND INCORPORATED AREAS



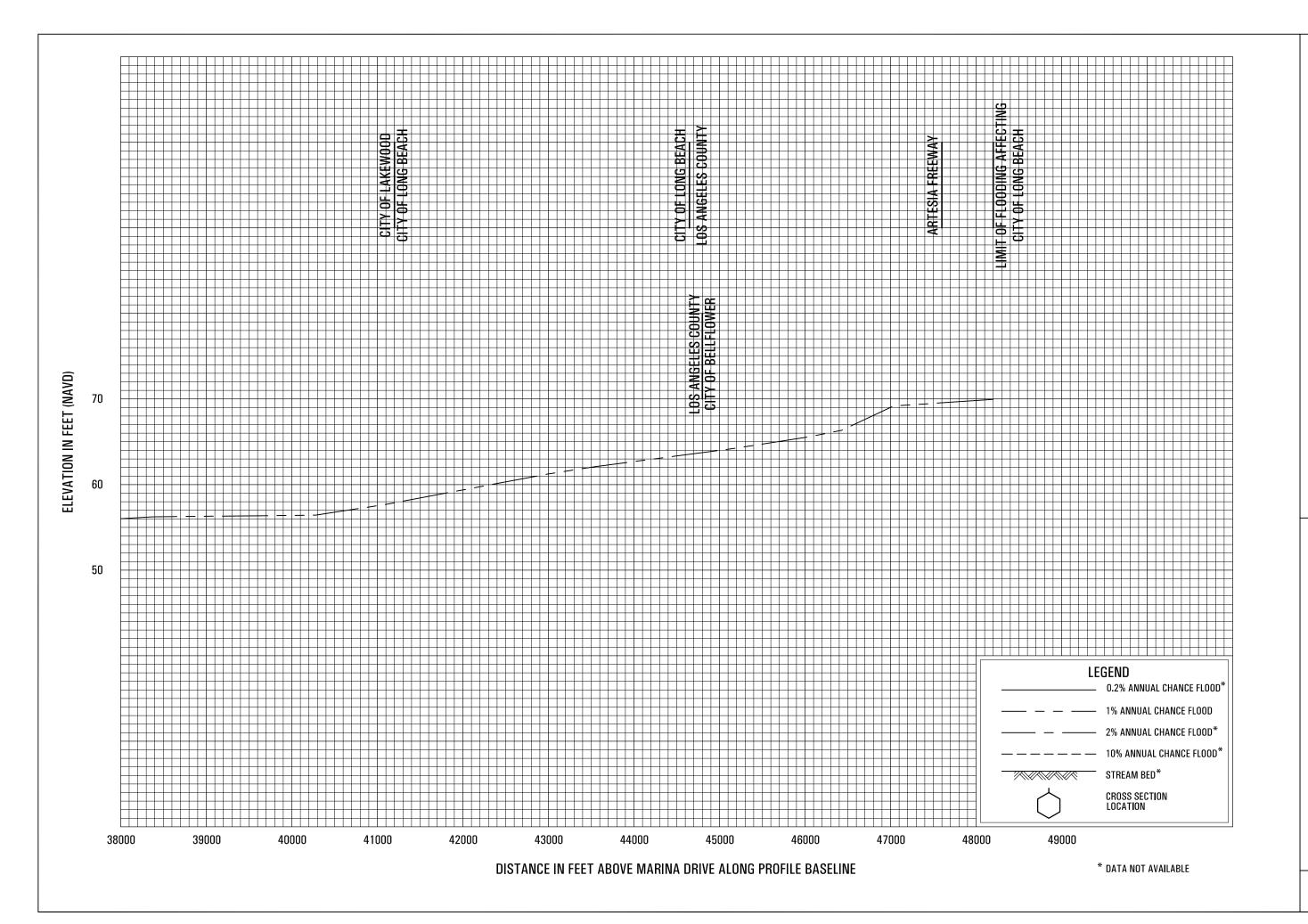
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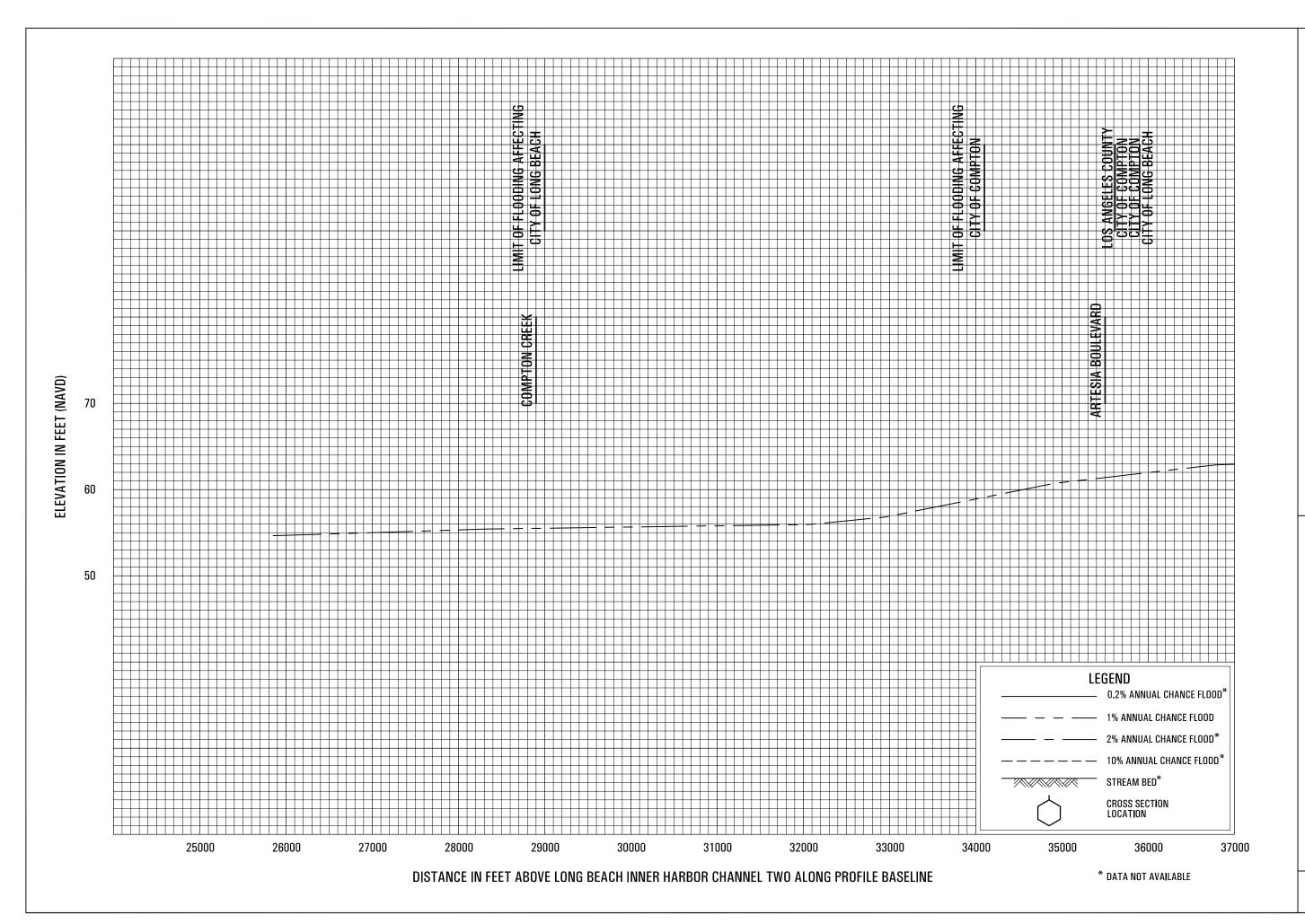
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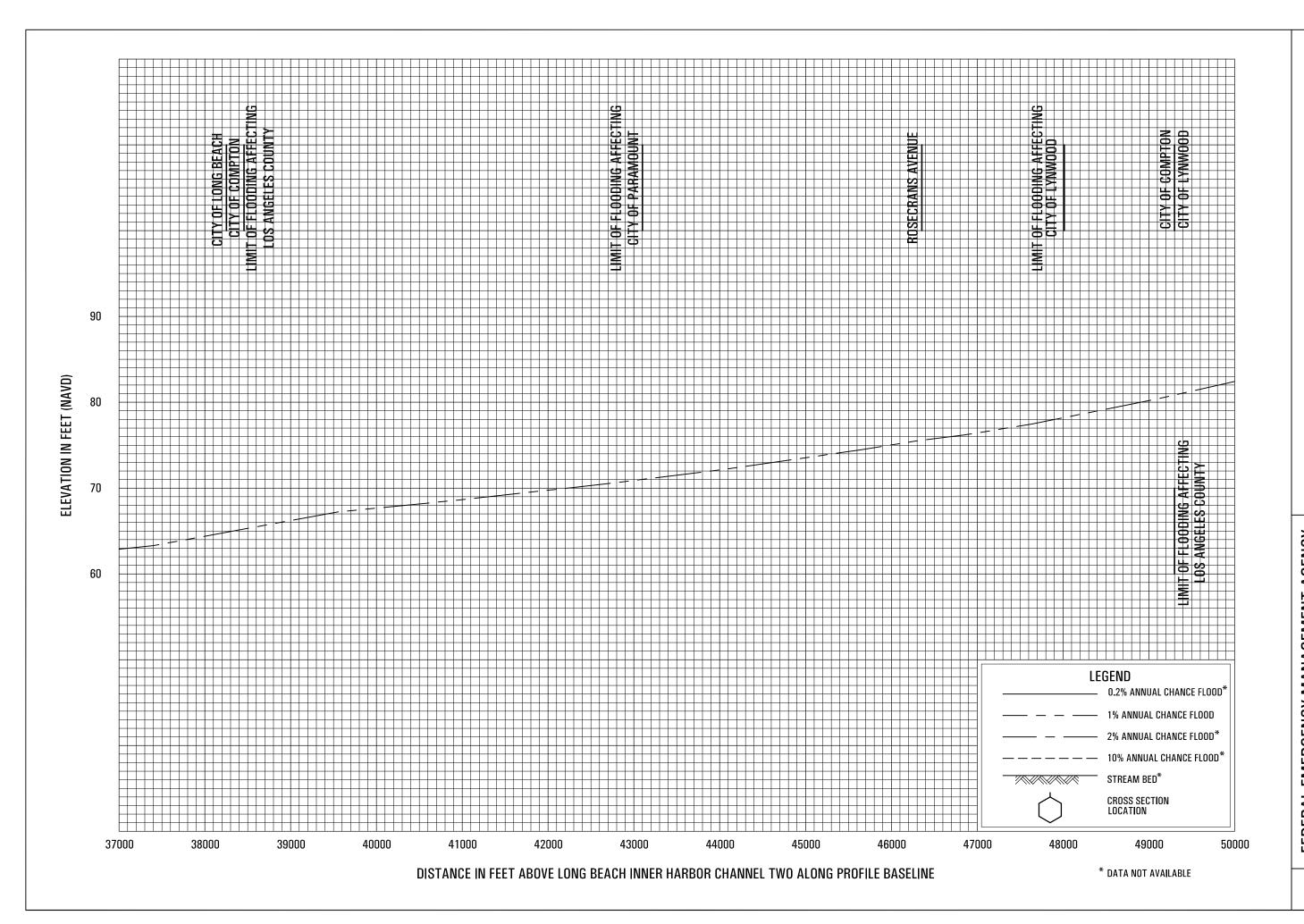
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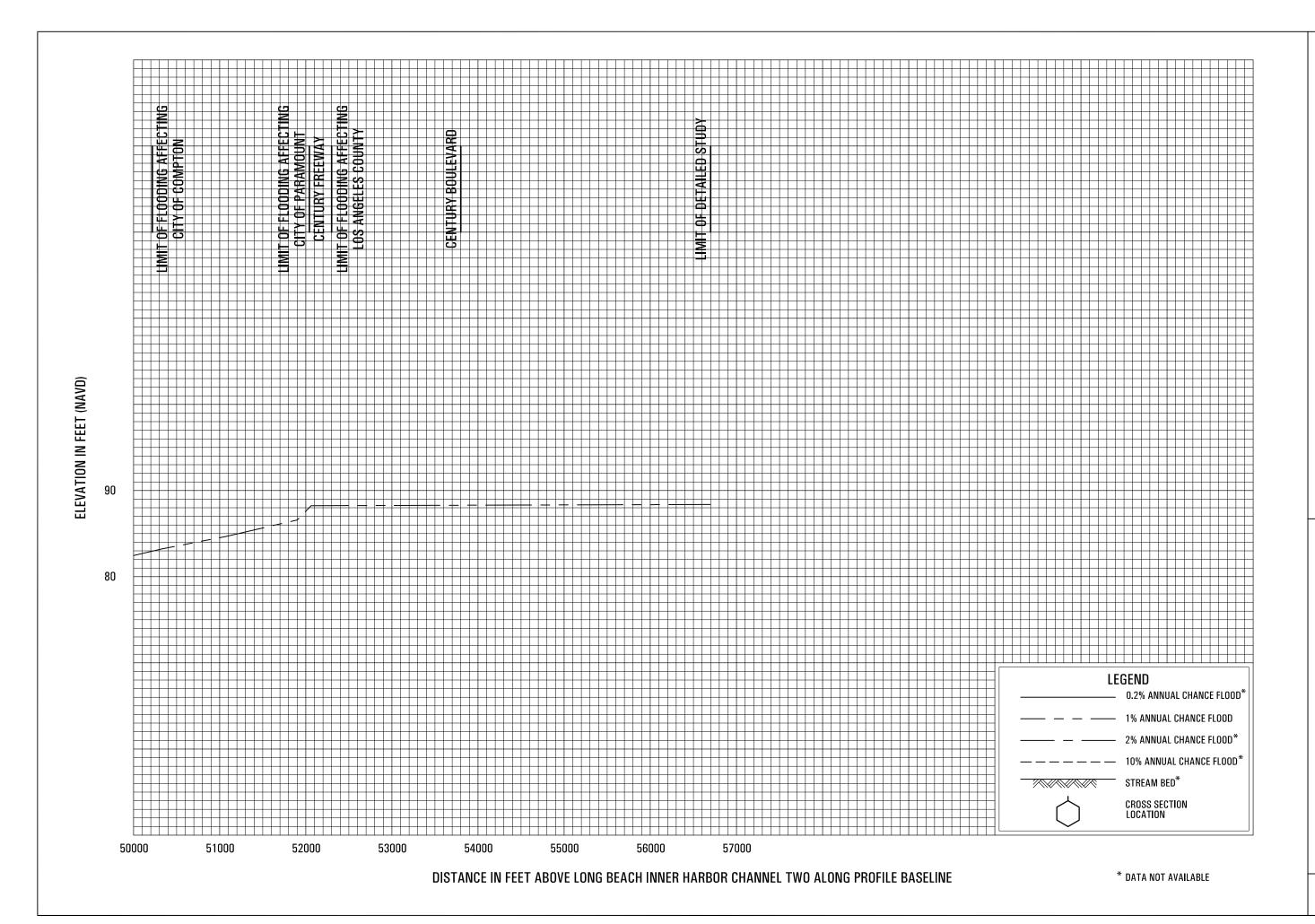
LOS ANGELES RIVER RIGHT OVERBANK PATH

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LOS ANGELES COUNTY, CA
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LOS ANGELES RIVER RIGHT OVERBANK PATH

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LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



LOS ANGELES RIVER RIGHT OVERBANK PATH

FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CA

AND INCORPORATED AREAS

## FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

**VOLUME 7 OF 9** 



# LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
AGOURA HILLS, CITY OF	065072	COMMERCE, CITY OF	060110
ALHAMBRA, CITY OF*	060095	COMPTON, CITY OF	060111
ARCADIA, CITY OF*	065014	COVINA, CITY OF*	065024
ARTESIA, CITY OF*	060097	CUDAHY, CITY OF	060657
AVALON, CITY OF	060098	CULVER CITY, CITY OF	060114
AZUSA, CITY OF	065015	DIAMOND BAR, CITY OF	060741
BALDWIN PARK, CITY OF*	060100	DOWNEY, CITY OF	060645
BELL, CITY OF*	060101	DUARTE, CITY OF*	065026
BELL GARDENS, CITY OF	060656	EL MONTE, CITY OF*	060658
BELLFLOWER, CITY OF	060102	EL SEGUNDO, CITY OF	060118
BEVERLY HILLS, CITY OF*	060655	GARDENA, CITY OF	060119
BRADBURY, CITY OF*	065017	GLENDALE, CITY OF	065030
BURBANK, CITY OF	065018	GLENDORA, CITY OF*	065031
CALABASAS, CITY OF	060749	HAWAIIAN GARDENS, CITY OF*	065032
CARSON, CITY OF	060107	HAWTHORNE, CITY OF*	060123
CERRITOS, CITY OF	060108	HERMOSA BEACH, CITY OF	060124
CLAREMONT, CITY OF*	060109	HIDDEN HILLS, CITY OF	060125

^{*}No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

FLOOD INSURANCE STUDY NUMBER

06037CV007F

Version Number 2.3.3.2



COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
HUNTINGTON PARK, CITY OF*	060126	PICO RIVERA, CITY OF	060148
INDUSTRY, CITY OF*	065035	POMONA, CITY OF*	060149
INGLEWOOD, CITY OF*	065036	RANCHO PALOS VERDES, CITY OF	060464
IRWINDALE, CITY OF*	060129	REDONDO BEACH, CITY OF	060150
LA CANADA FLINTRIDGE, CITY OF*	060669	ROLLING HILLS, CITY OF*	060151
LA HABRA HEIGHTS, CITY OF*	060701	ROLLING HILLS ESTATES, CITY OF*	065054
LA MIRADA, CITY OF	060131	ROSEMEAD, CITY OF*	060153
LA PUENTE*, CITY OF	065039	SAN DIMAS, CITY OF	060154
LA VERNE, CITY OF	060133	SAN FERNANDO, CITY OF	060628
LAKEWOOD, CITY OF	060130	SAN GABRIEL, CITY OF*	065055
LANCASTER, CITY OF	060672	SAN MARINO, CITY OF*	065057
LAWNDALE, CITY OF*	060134	SANTA CLARITA, CITY OF	060729
LOMITA, CITY OF*	060135	SANTA FE SPRINGS, CITY OF	060158
LONG BEACH, CITY OF	060136	SANTA MONICA, CITY OF	060159
LOS ANGELES, CITY OF	060137	SIERRA MADRE, CITY OF*	065059
LOS ANGELES COUNTY UNINCORPORATED AREAS	065043	SIGNAL HILL, CITY OF*	060161
LYNWOOD, CITY OF	060635	SOUTH EL MONTE, CITY OF*	060162
MALIBU, CITY OF	060745	SOUTH GATE, CITY OF	060163
MANHATTAN BEACH, CITY OF	060138	SOUTH PASADENA, CITY OF*	065061
MAYWOOD, CITY OF*	060651	TEMPLE CITY, CITY OF*	060653
MONROVIA, CITY OF*	065046	TORRANCE, CITY OF	060165
MONTEBELLO, CITY OF	060141	VERNON, CITY OF*	060166
MONTEREY PARK, CITY OF*	065047	WALNUT, CITY OF*	065069
NORWALK, CITY OF	060652	WEST COVINA, CITY OF	060666
PALMDALE, CITY OF	060144	WEST HOLLYWOOD, CITY OF*	060720
PALOS VERDES ESTATES, CITY OF	060145	WESTLAKE VILLAGE, CITY OF	060744
PARAMOUNT, CITY OF	065049	WHITTIER, CITY OF	060169
PASADENA, CITY OF*	065050		

^{*}No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

### FLOOD INSURANCE STUDY NUMBER **06037CV007F**

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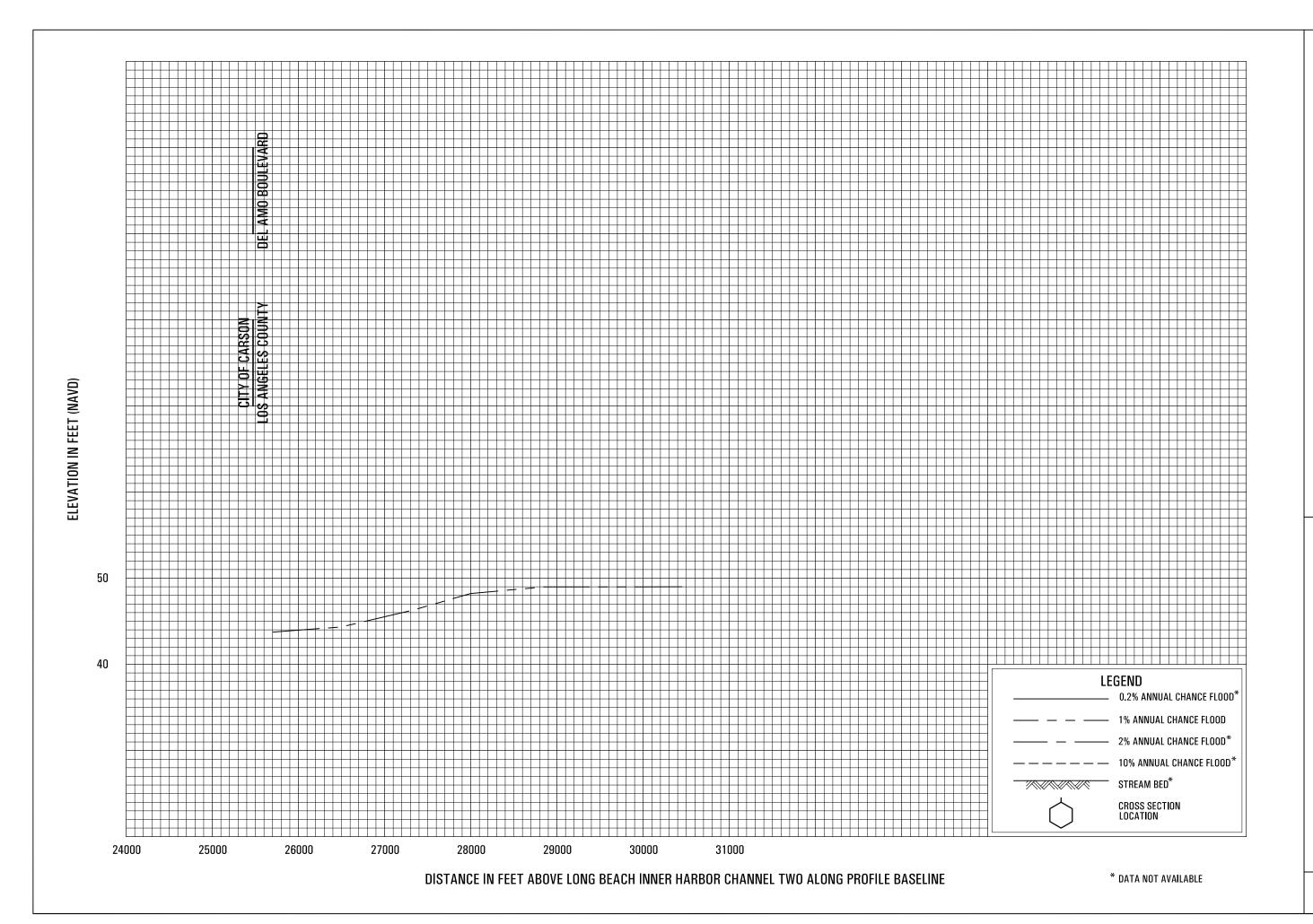
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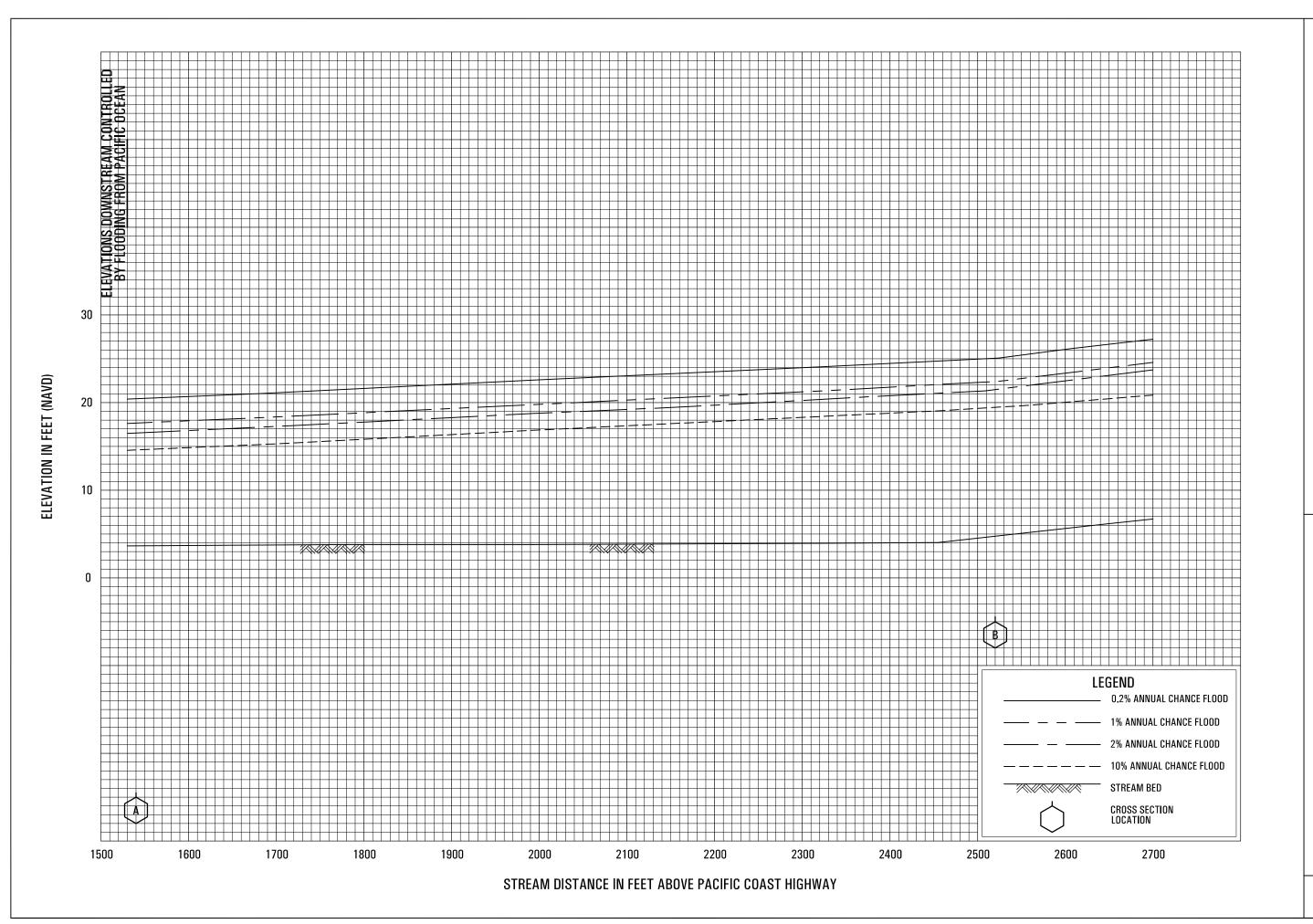
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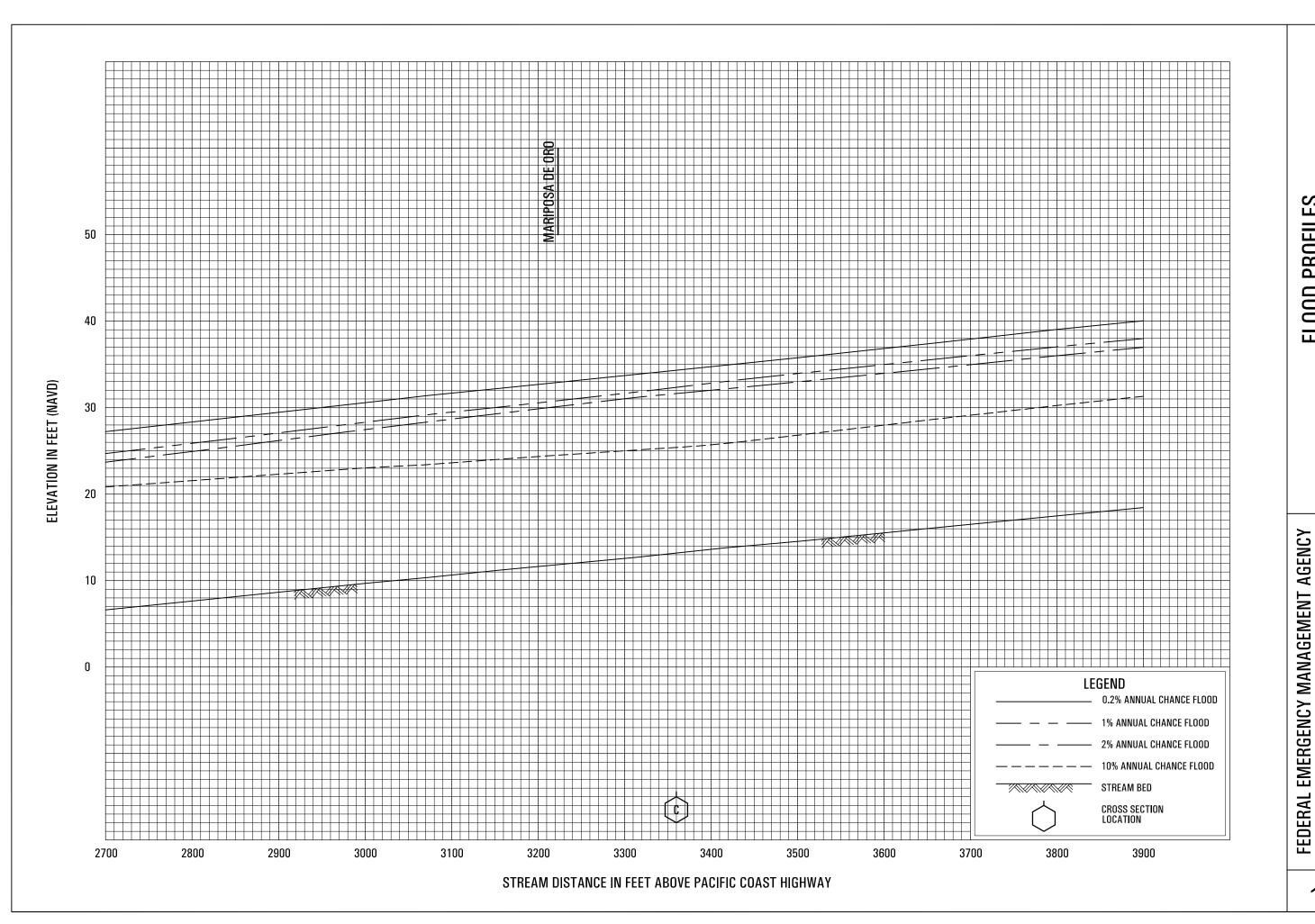
LOS ANGELES RIVER RIGHT OVERBANK PATH 2

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MALIBU CREEK

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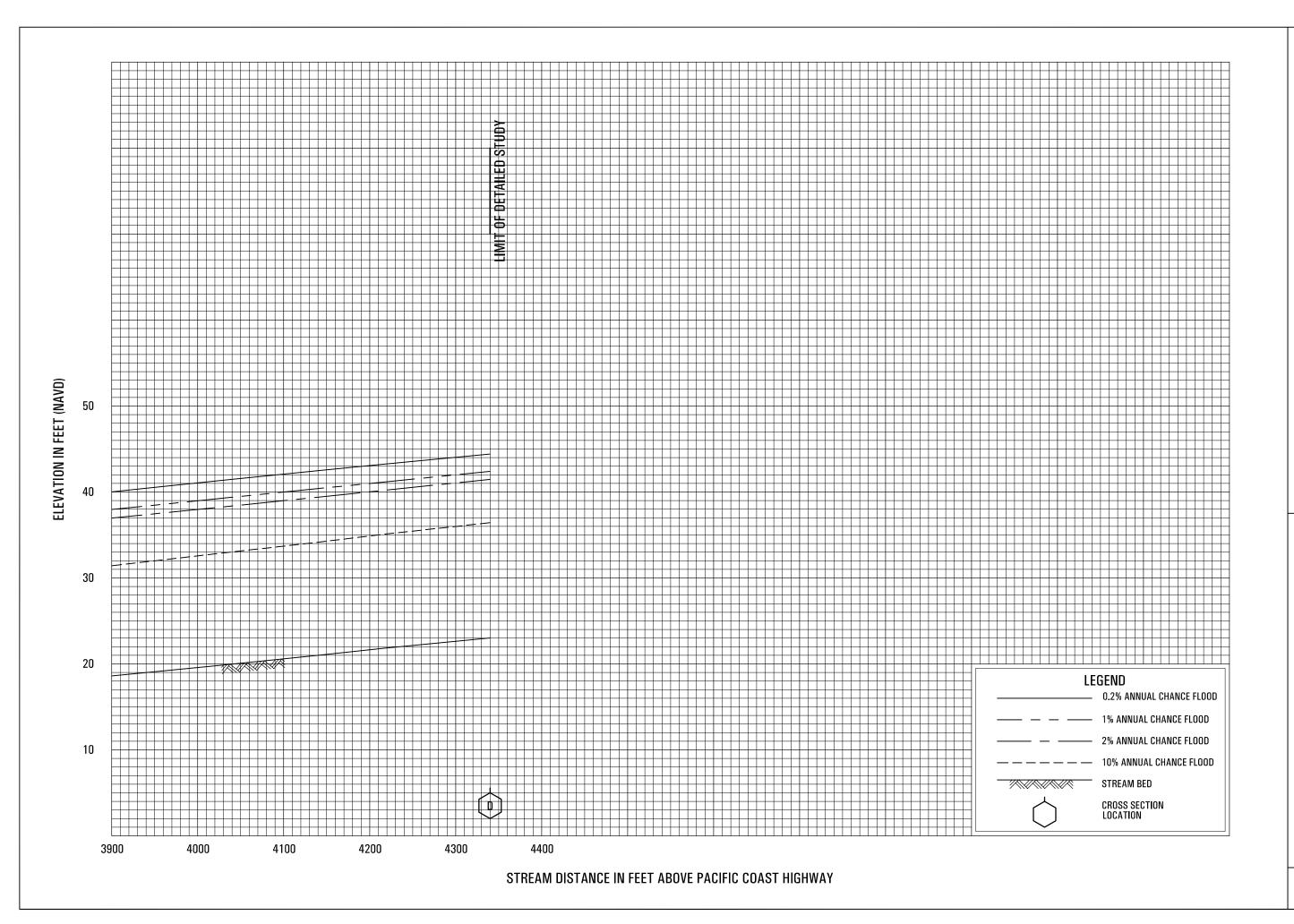


**MALIBU CREEK** 

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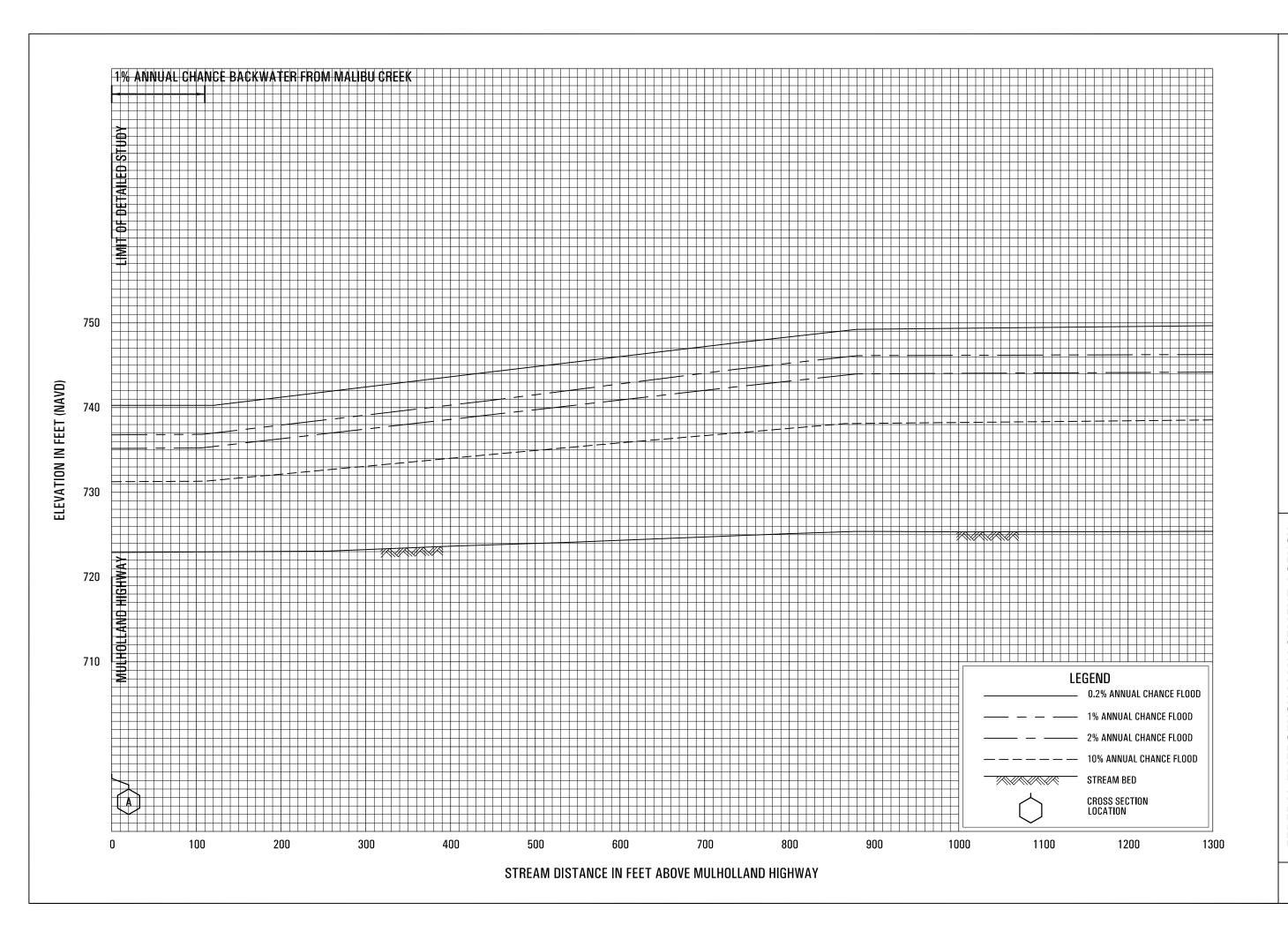
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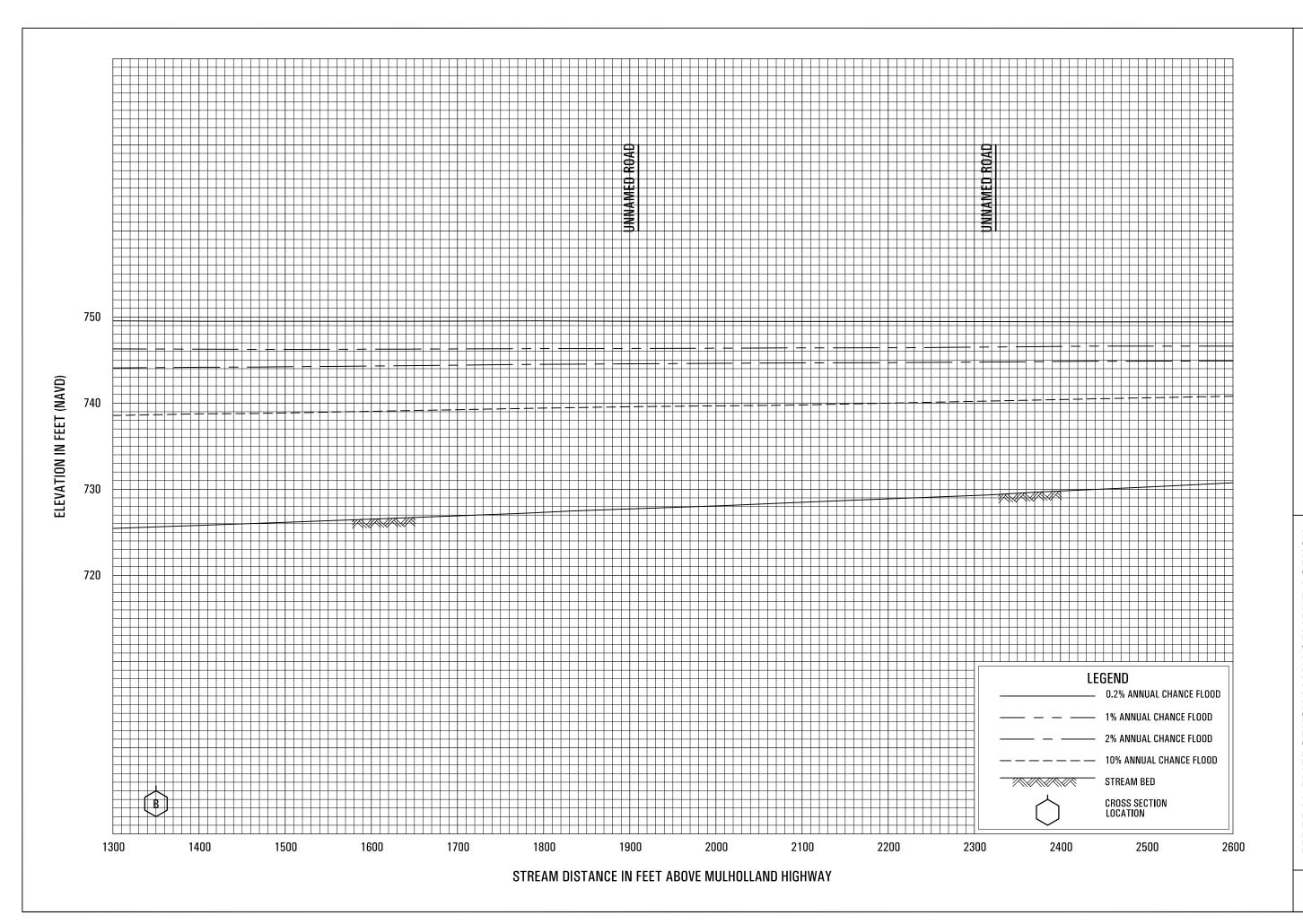
MALIBU CREEK

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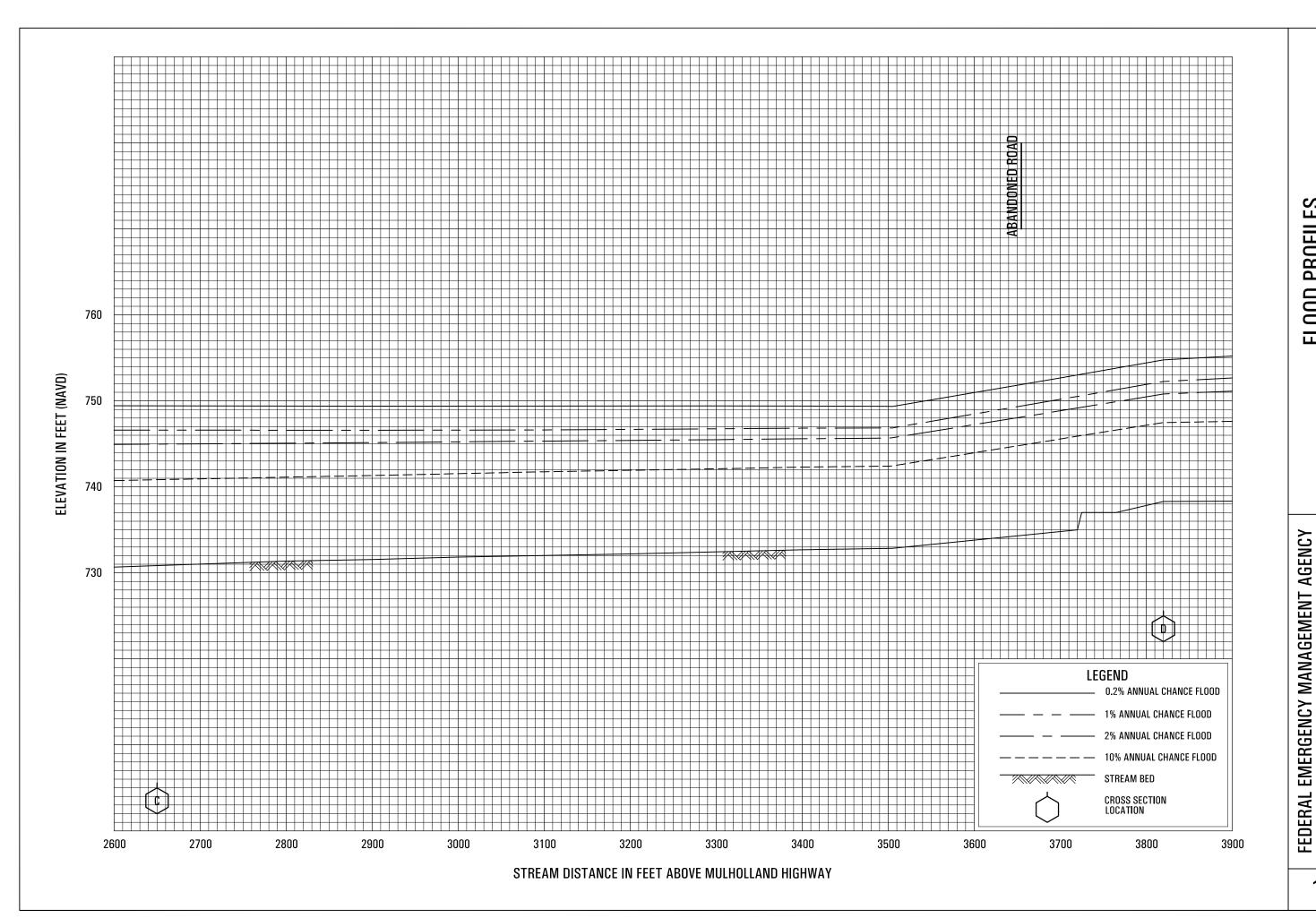
**MEDEA CREEK** 

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MEDEA CREEK

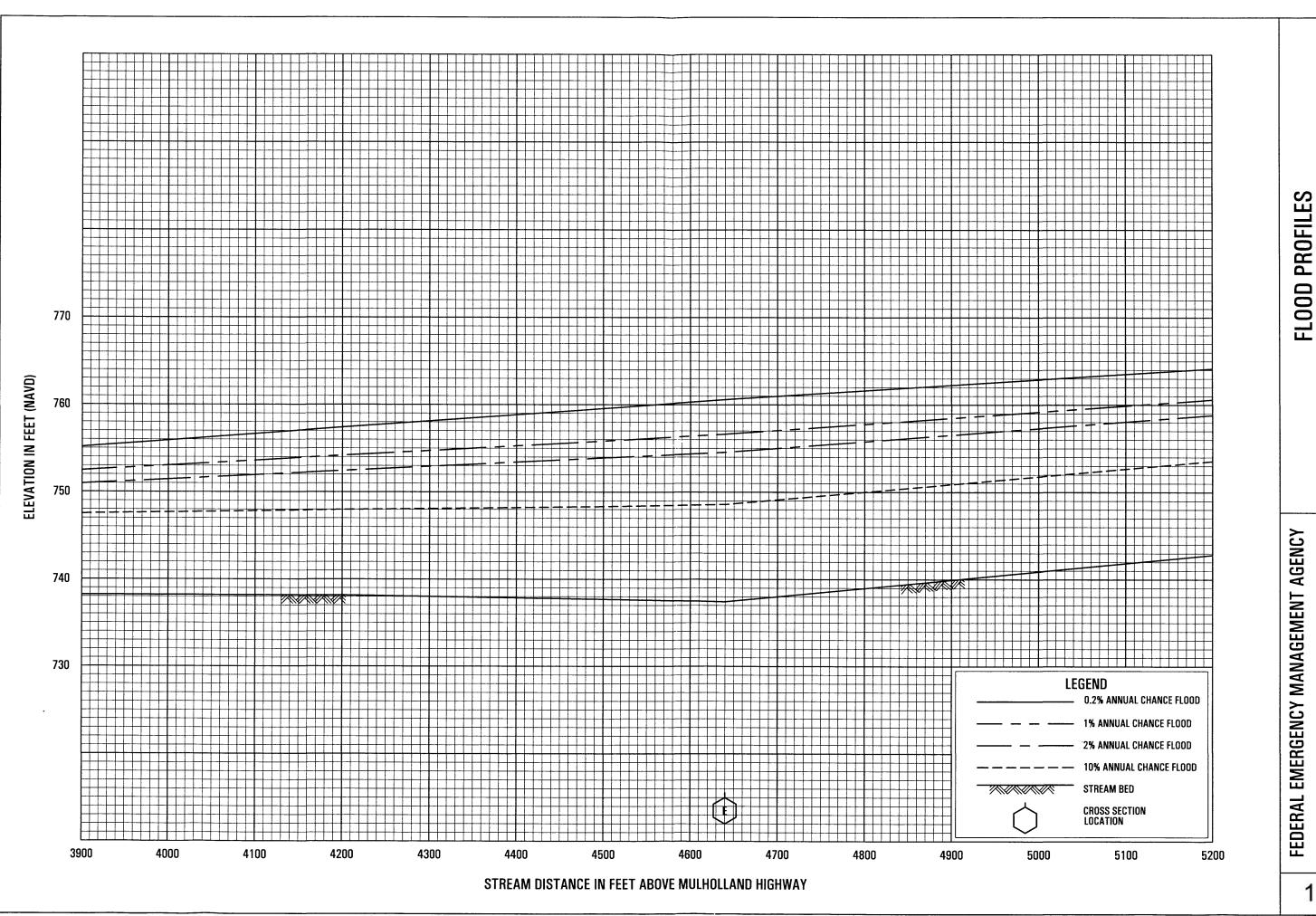
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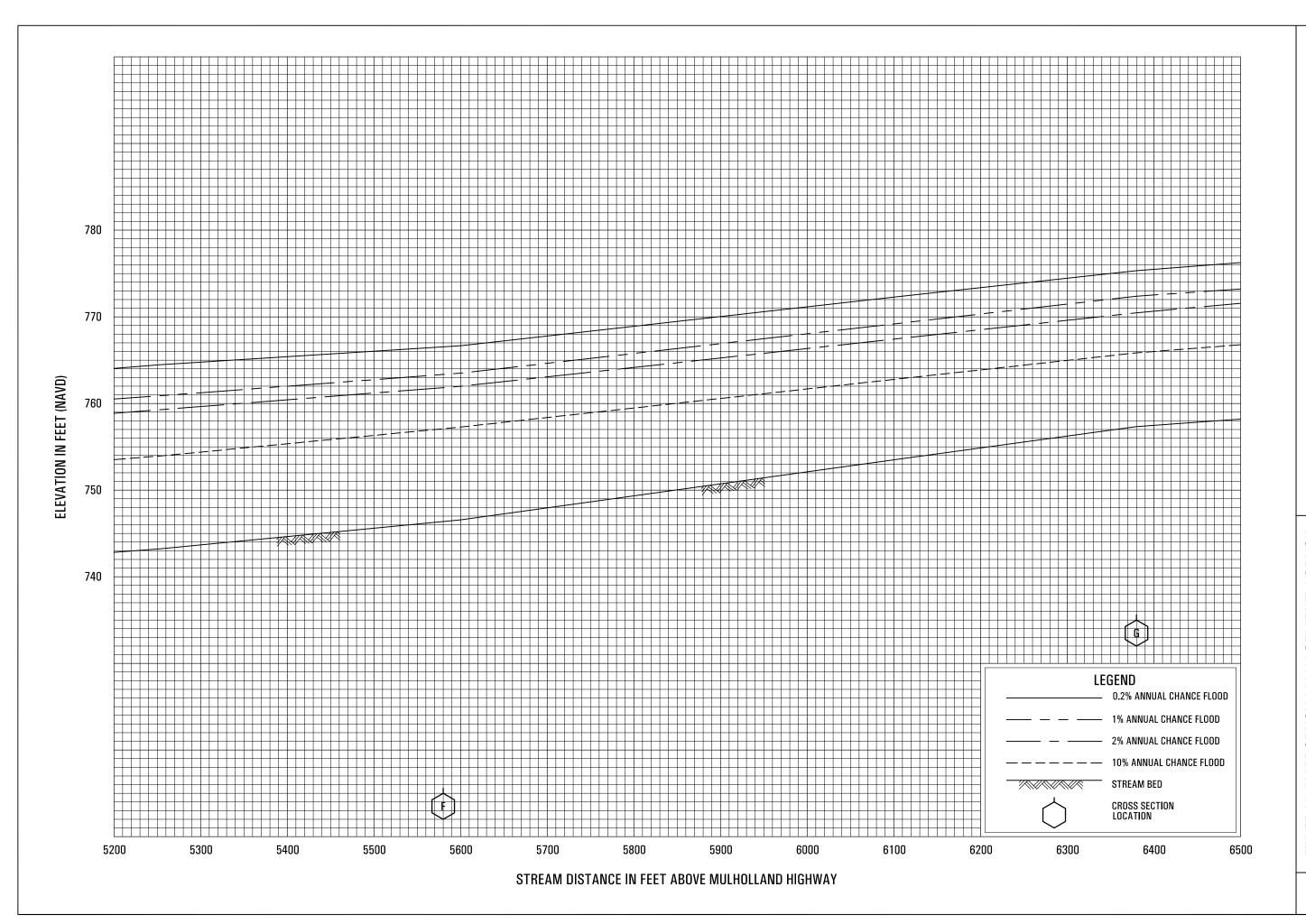
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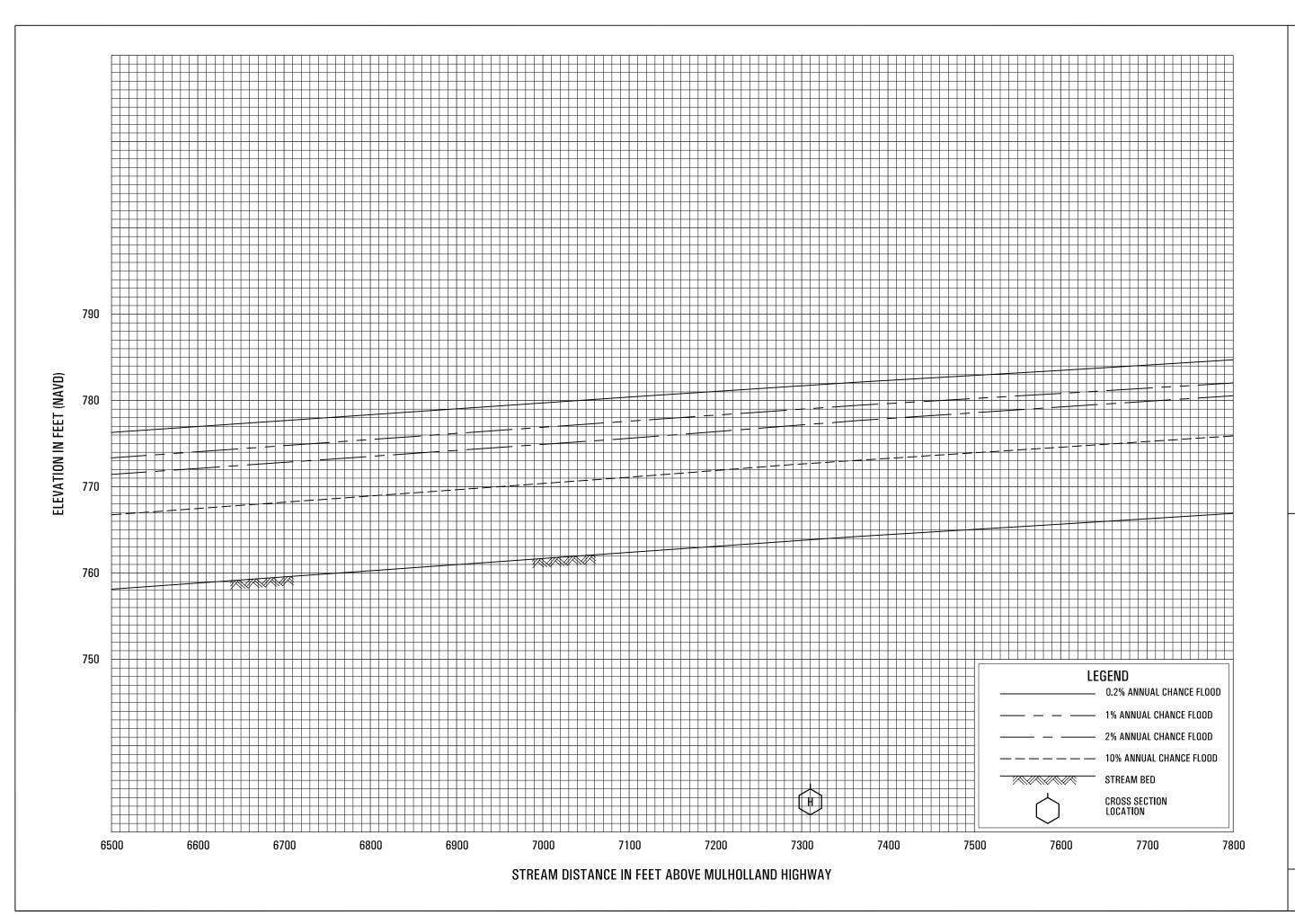
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**MEDEA CREEK** 



MEDEA CREEK

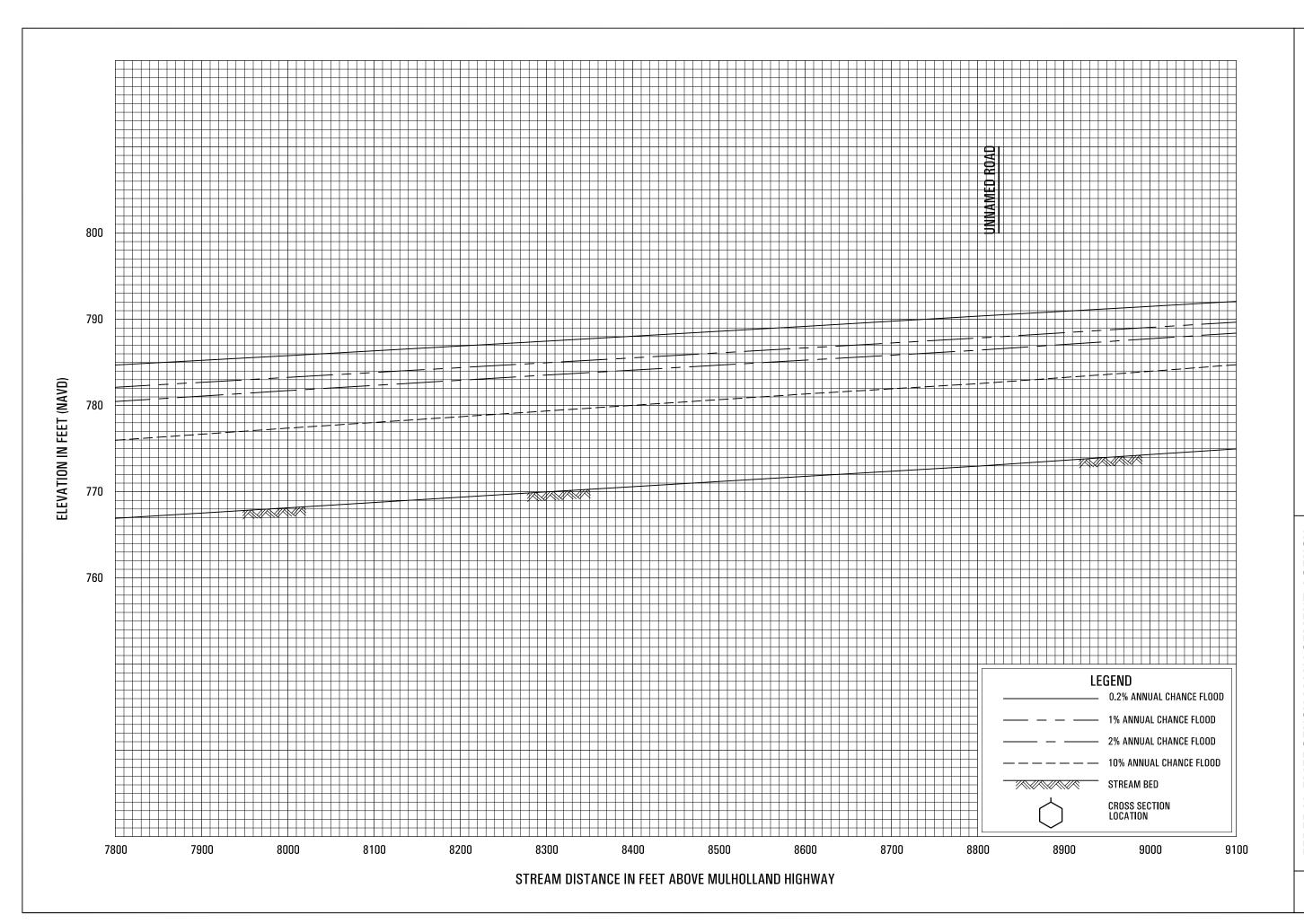
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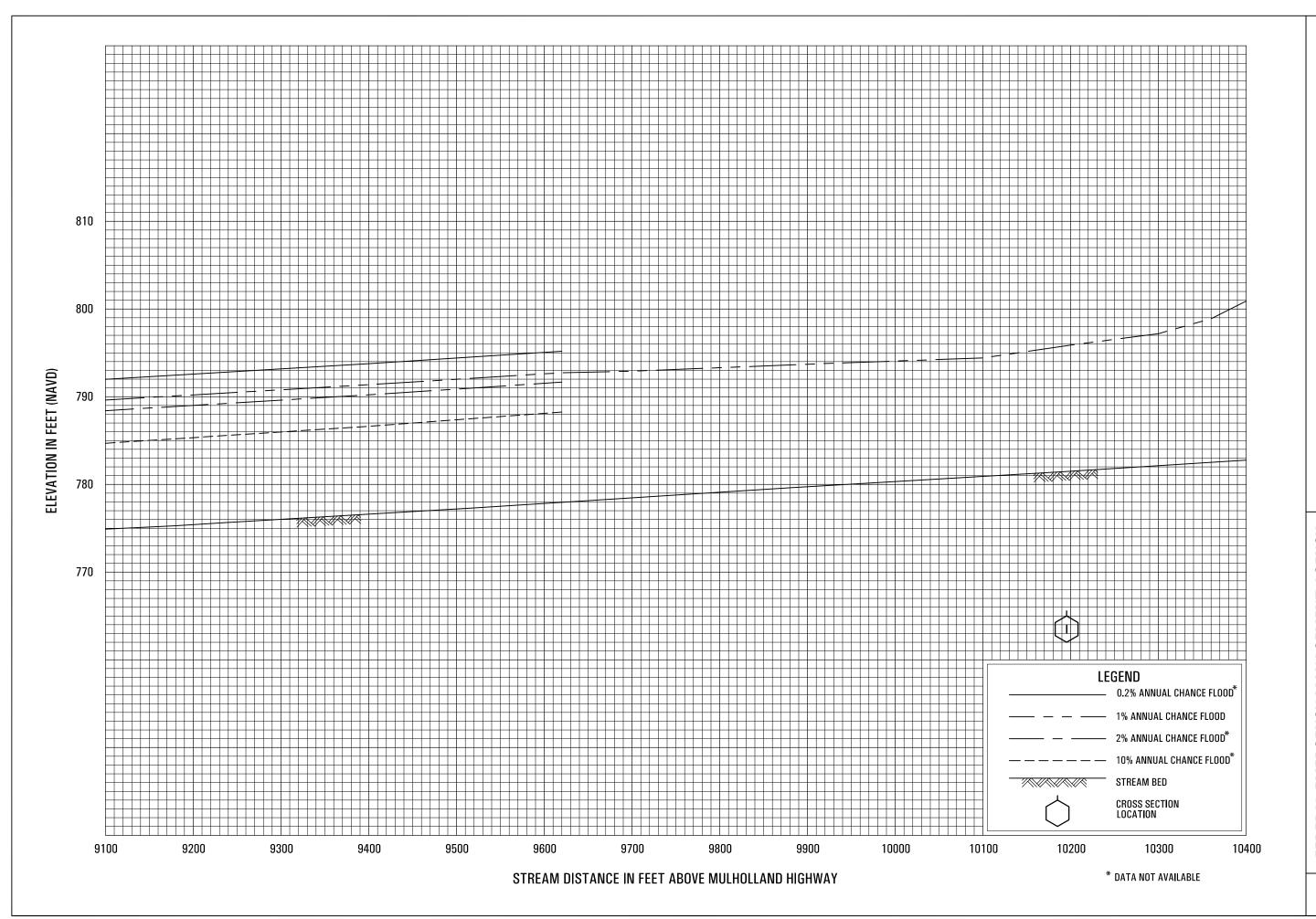
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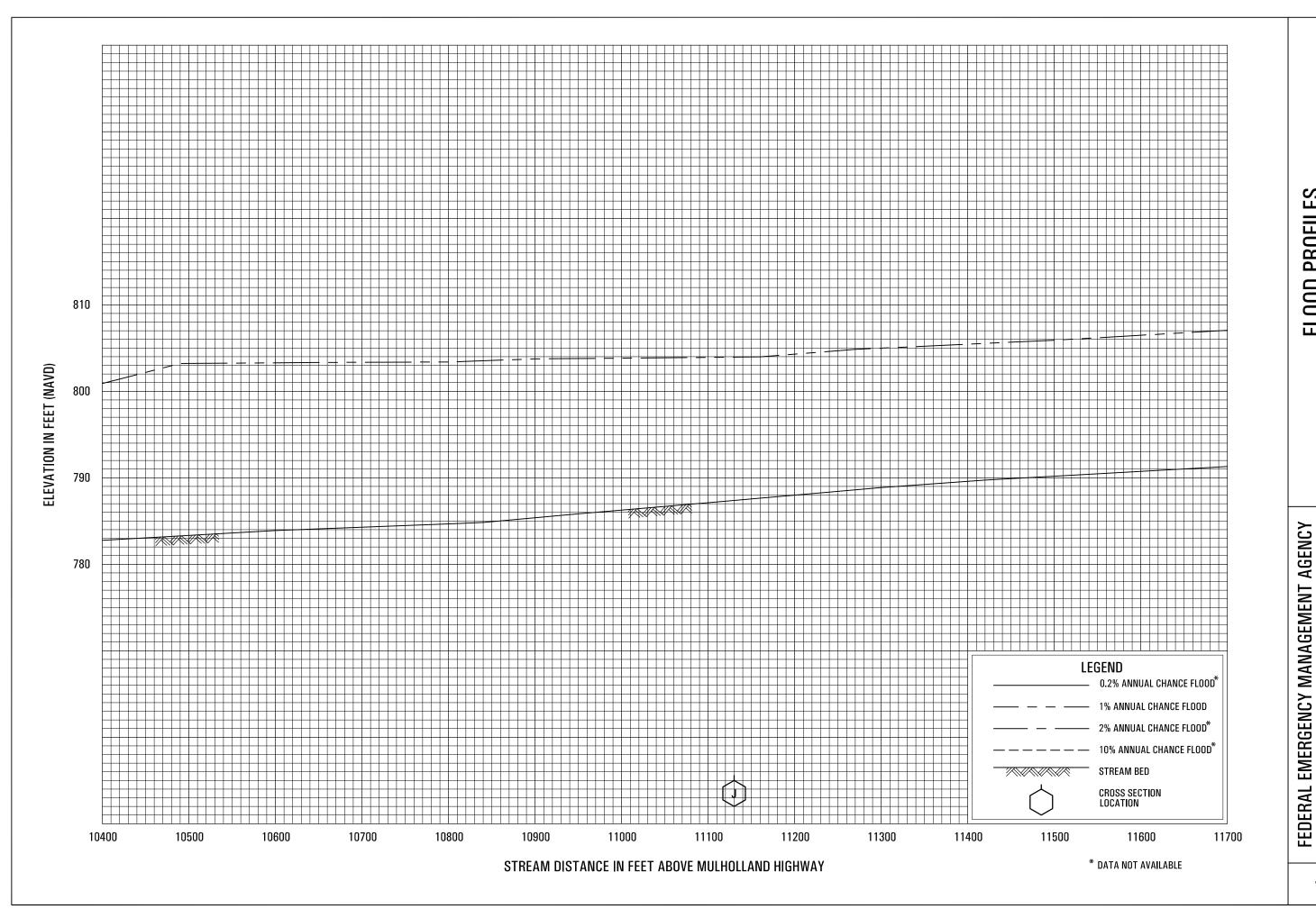
MEDEA CREEK

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AND INCORPORATED AREAS



MEDEA CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS

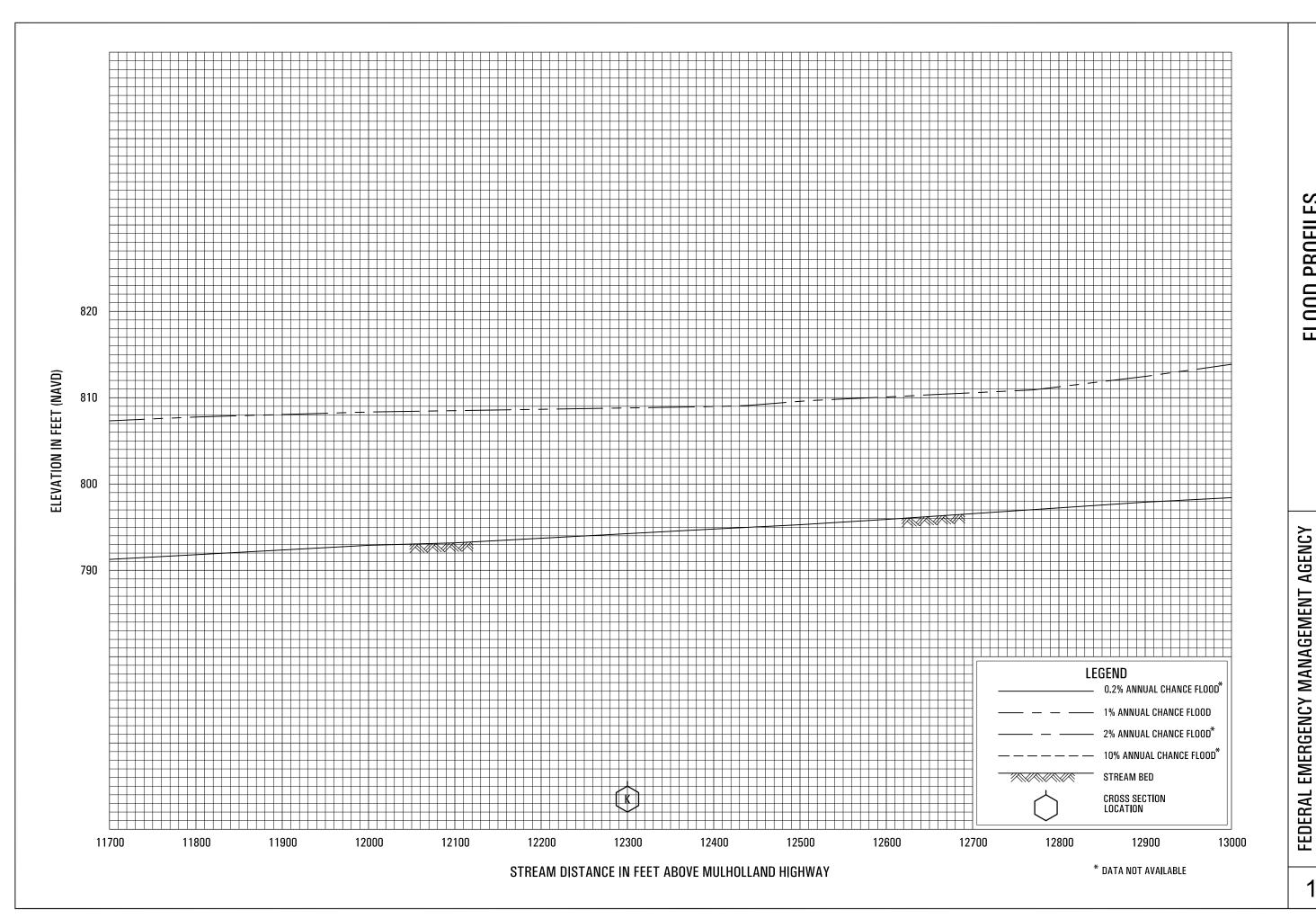


MEDEA CREEK

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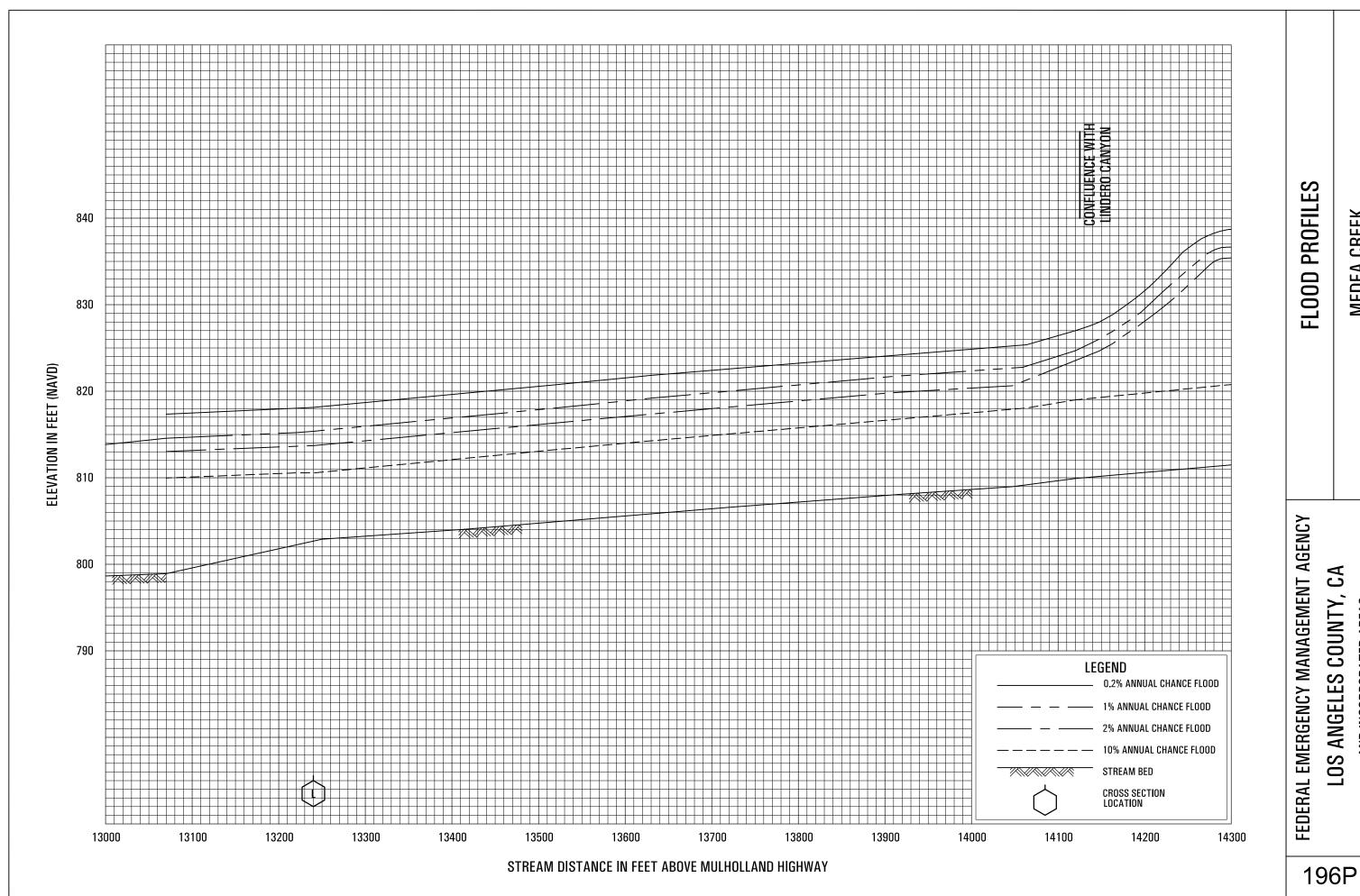
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AND INCORPORATED AREAS



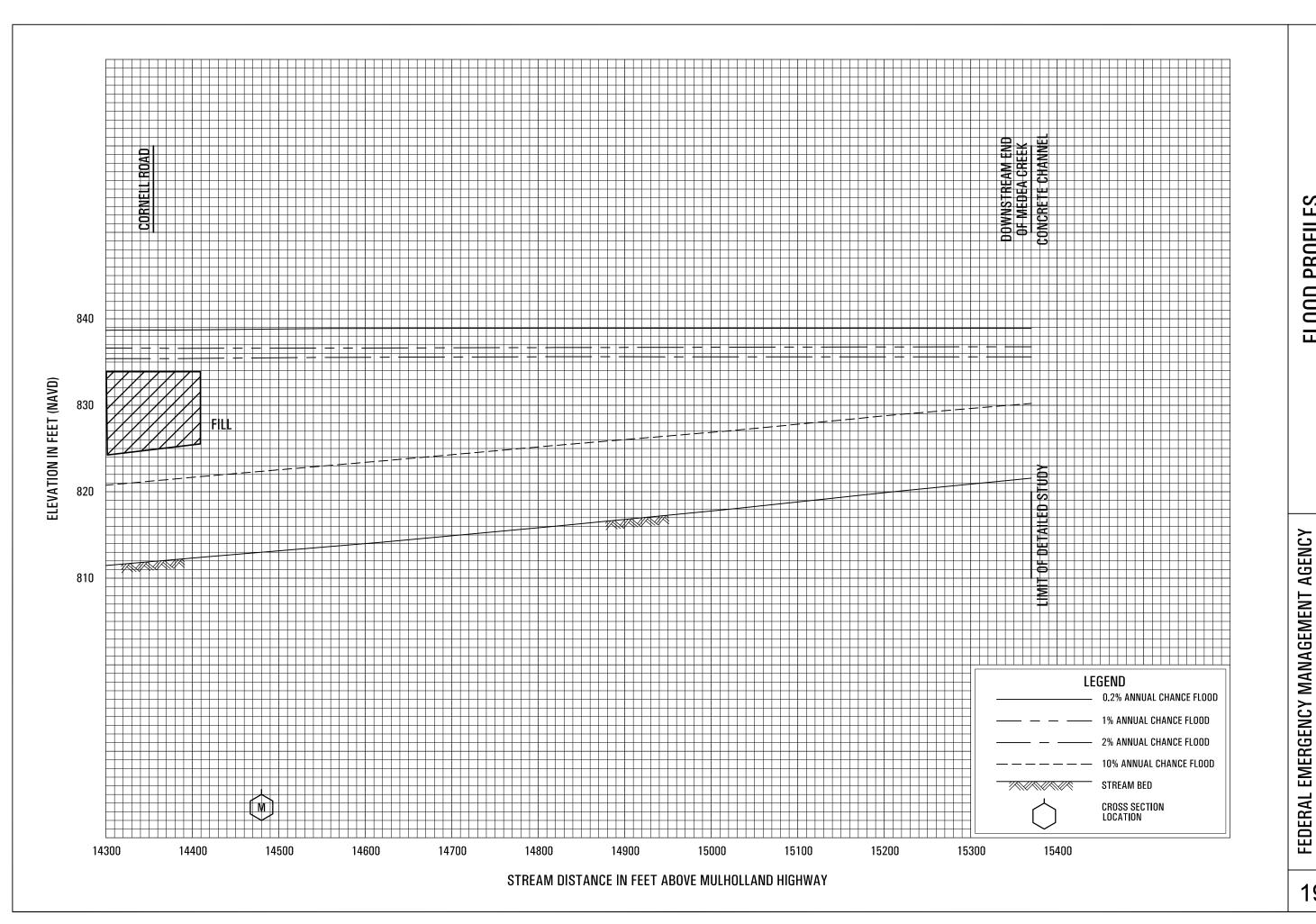
MEDEA CREEK

LOS ANGELES COUNTY, CA AND INCORPORATED AREAS



MEDEA CREEK

AND INCORPORATED AREAS

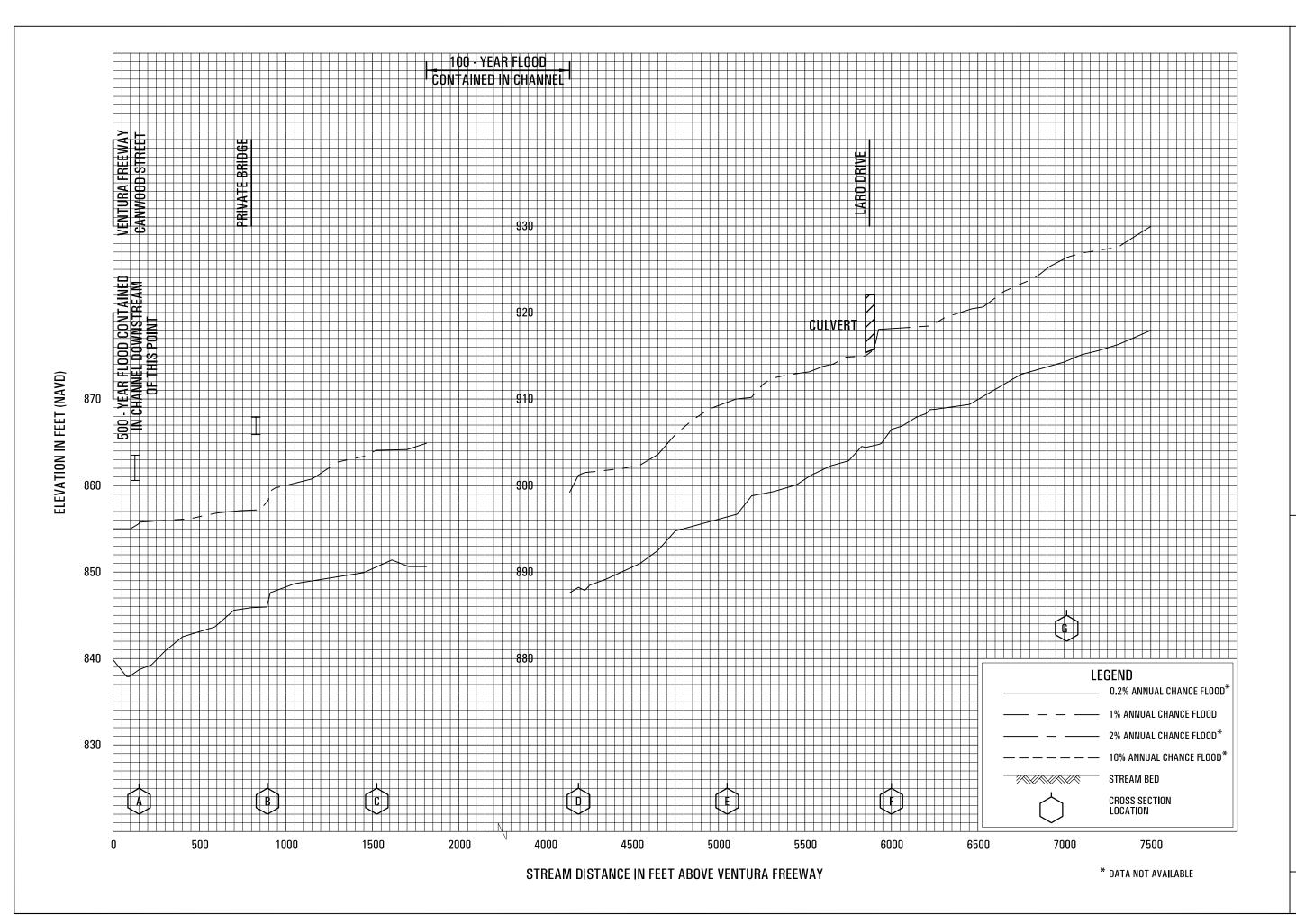


**MEDEA CREEK** 

197P

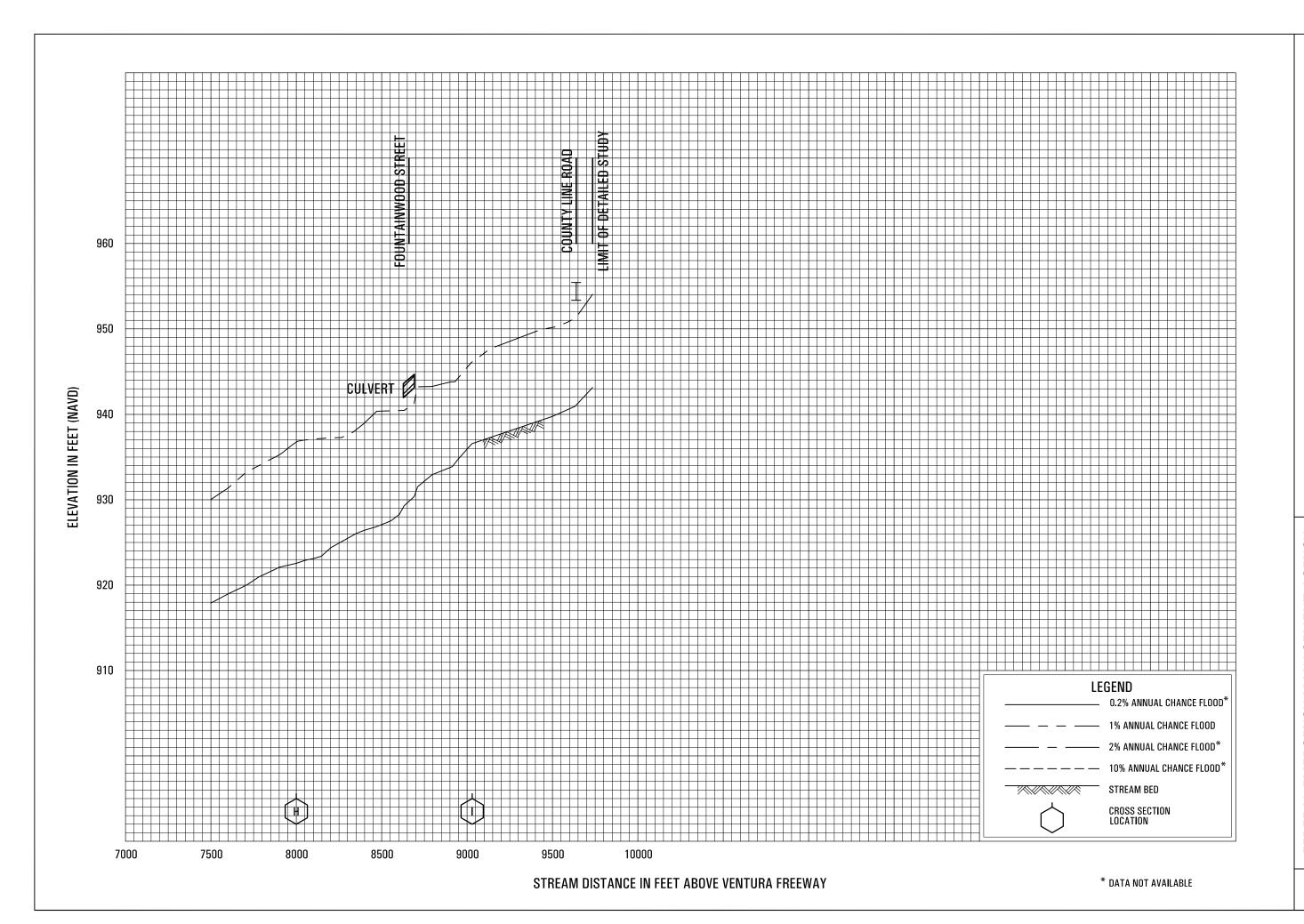
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AND INCORPORATED AREAS



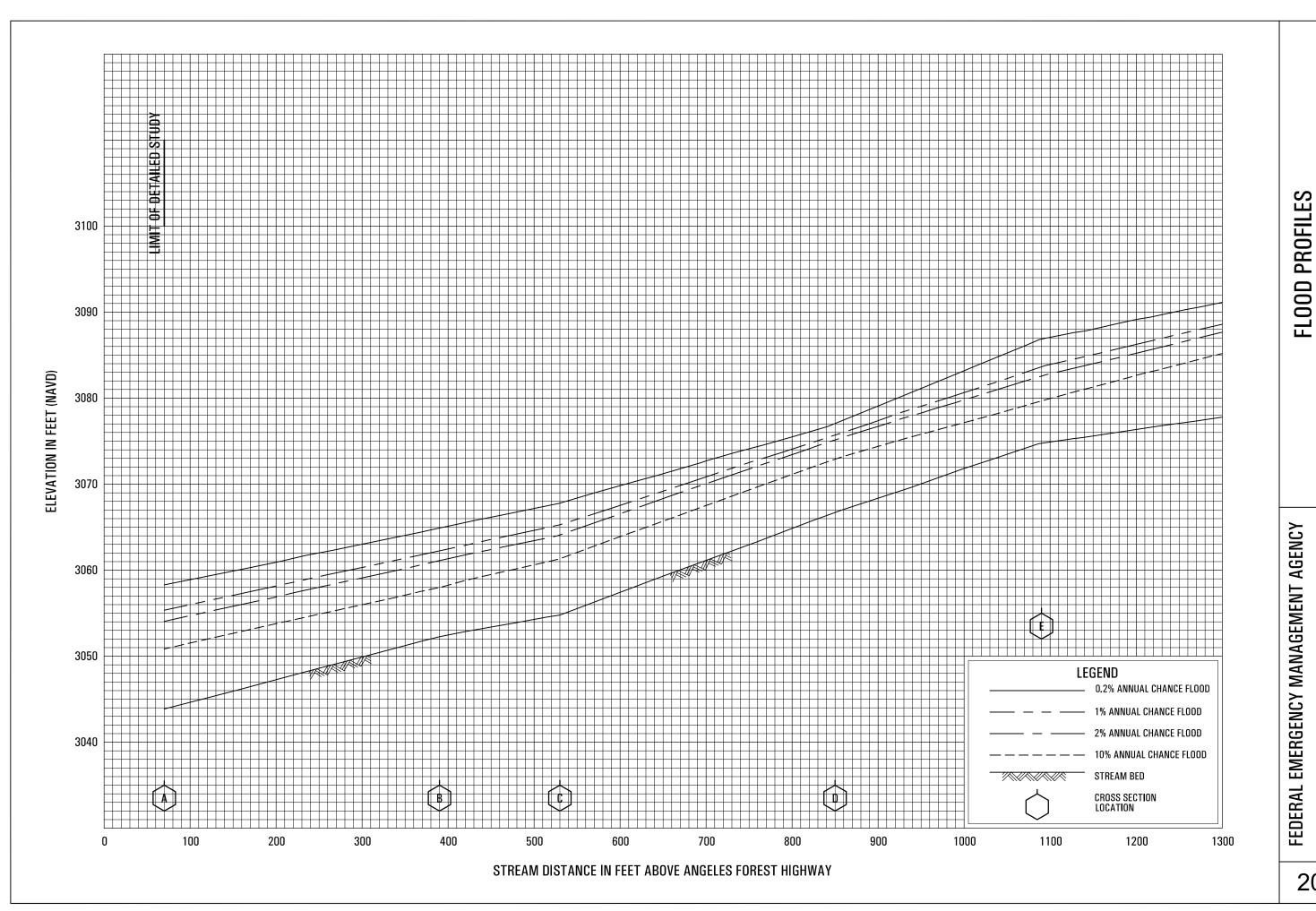
**MEDEA CREEK (ABOVE VENTURA FREEWAY)** 

FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



MEDEA CREEK (ABOVE VENTURA FREEWAY)

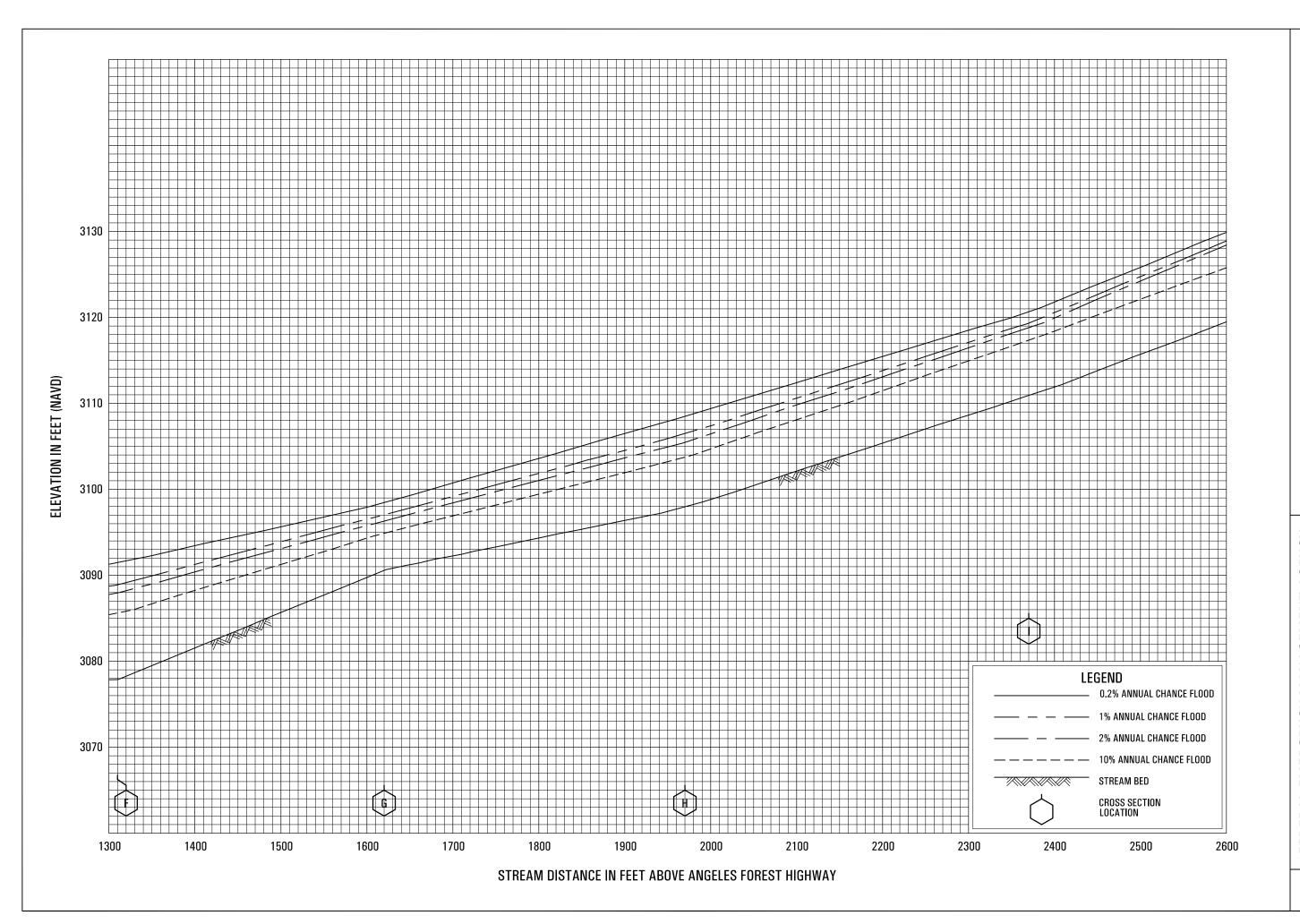
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LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



LOS ANGELES COUNTY, CA

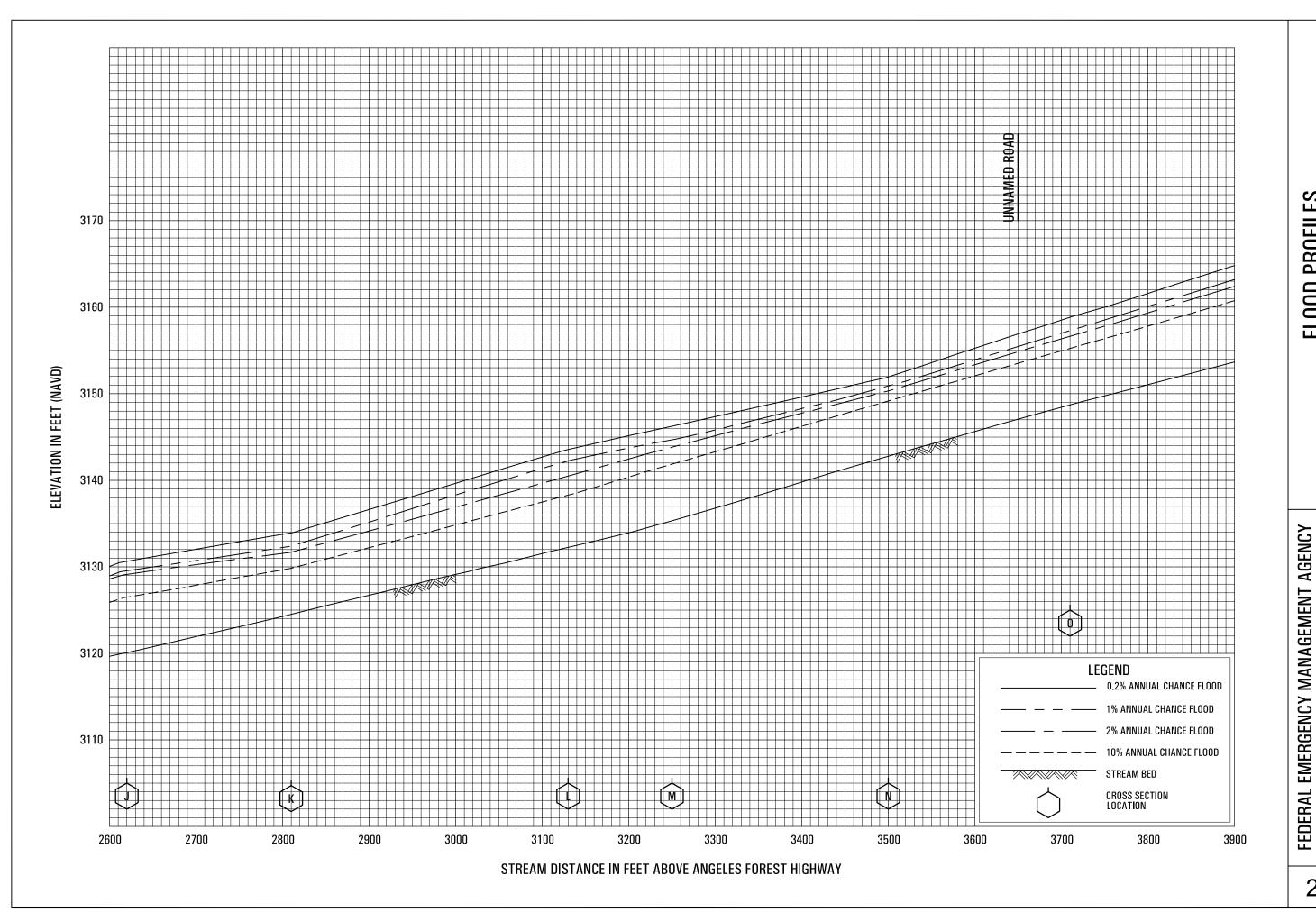
AND INCORPORATED AREAS

MILL CREEK



MILL CREEK

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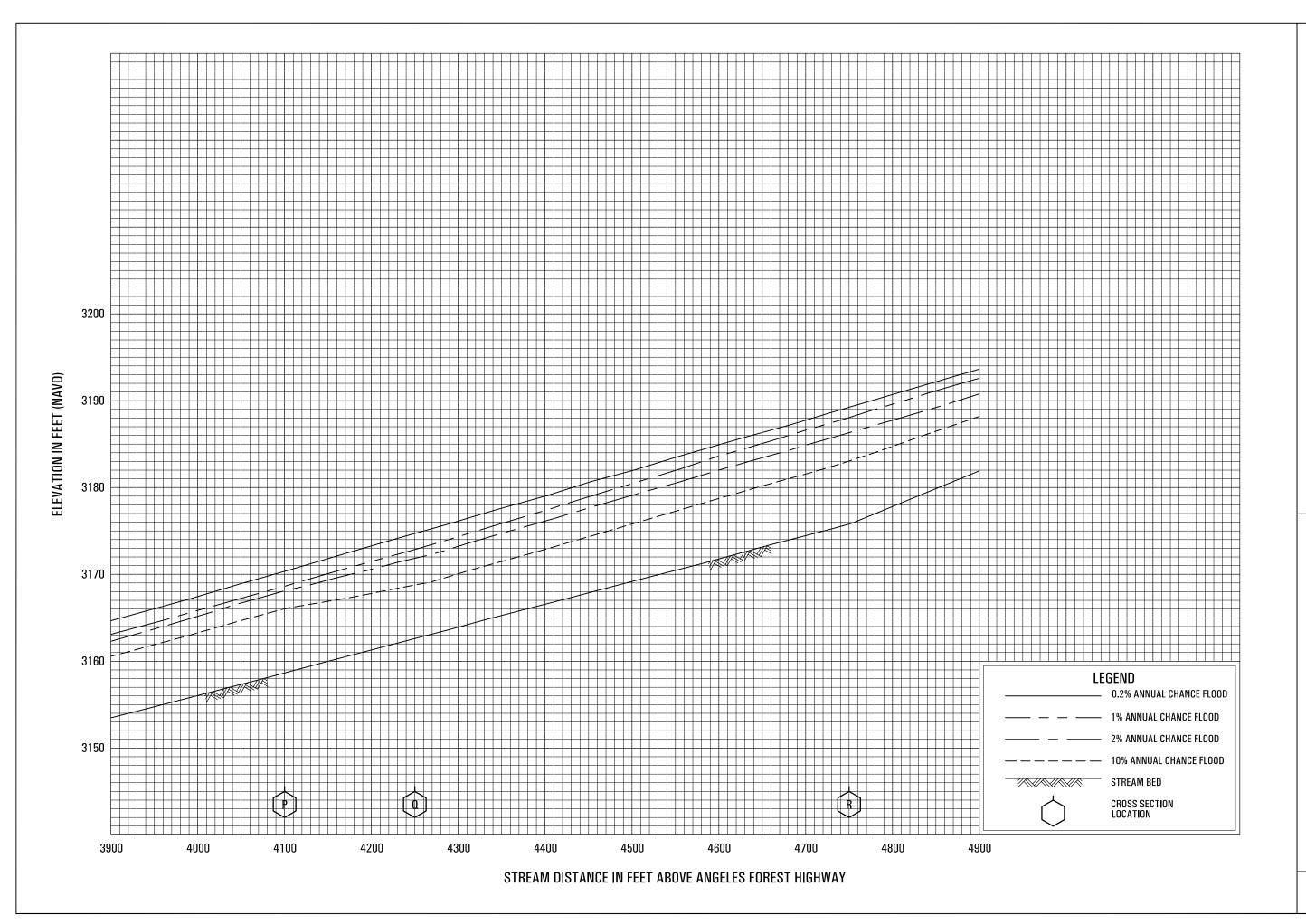


MILL CREEK

202P

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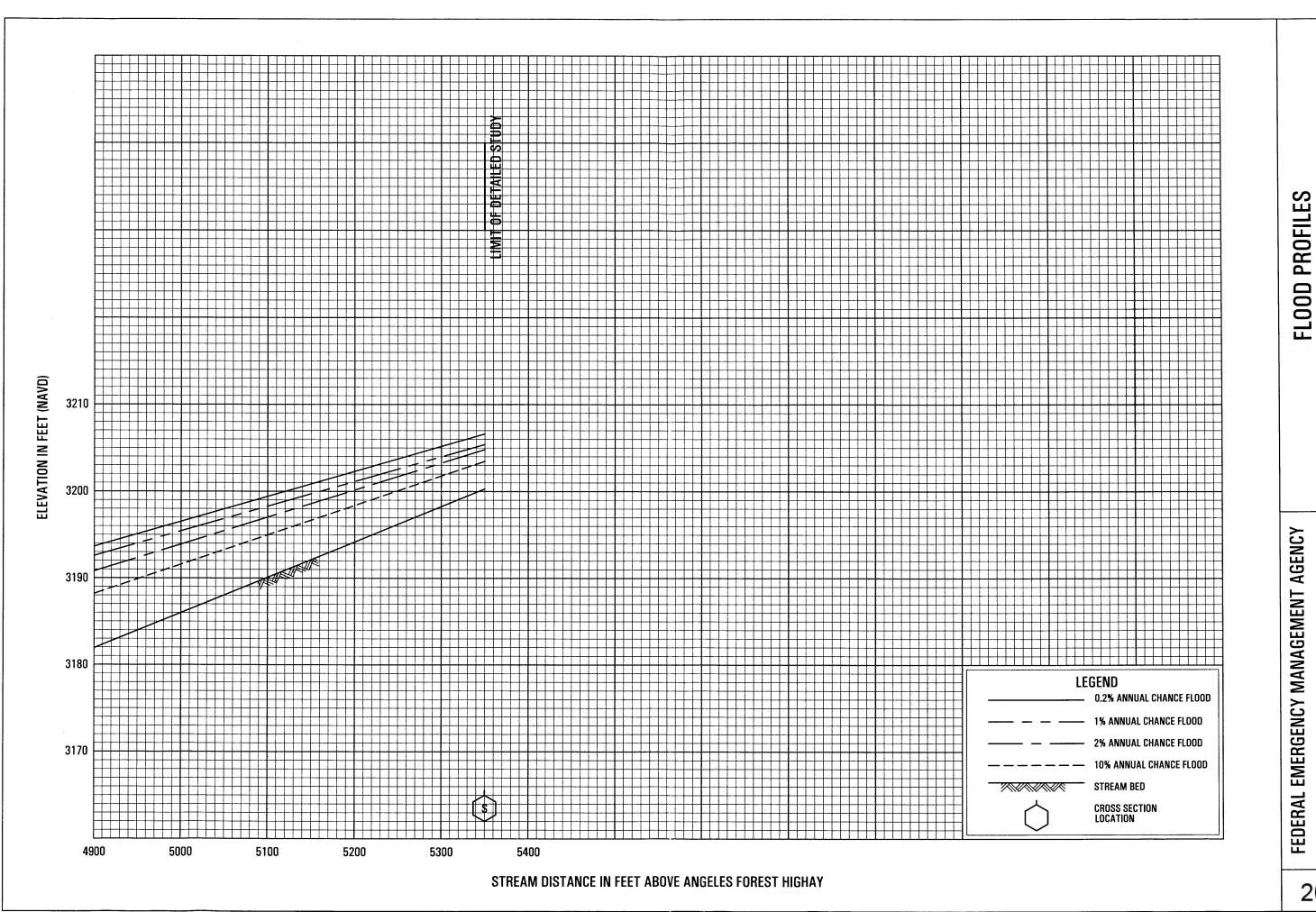
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MILL CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CA

AND INCORPORATED AREAS



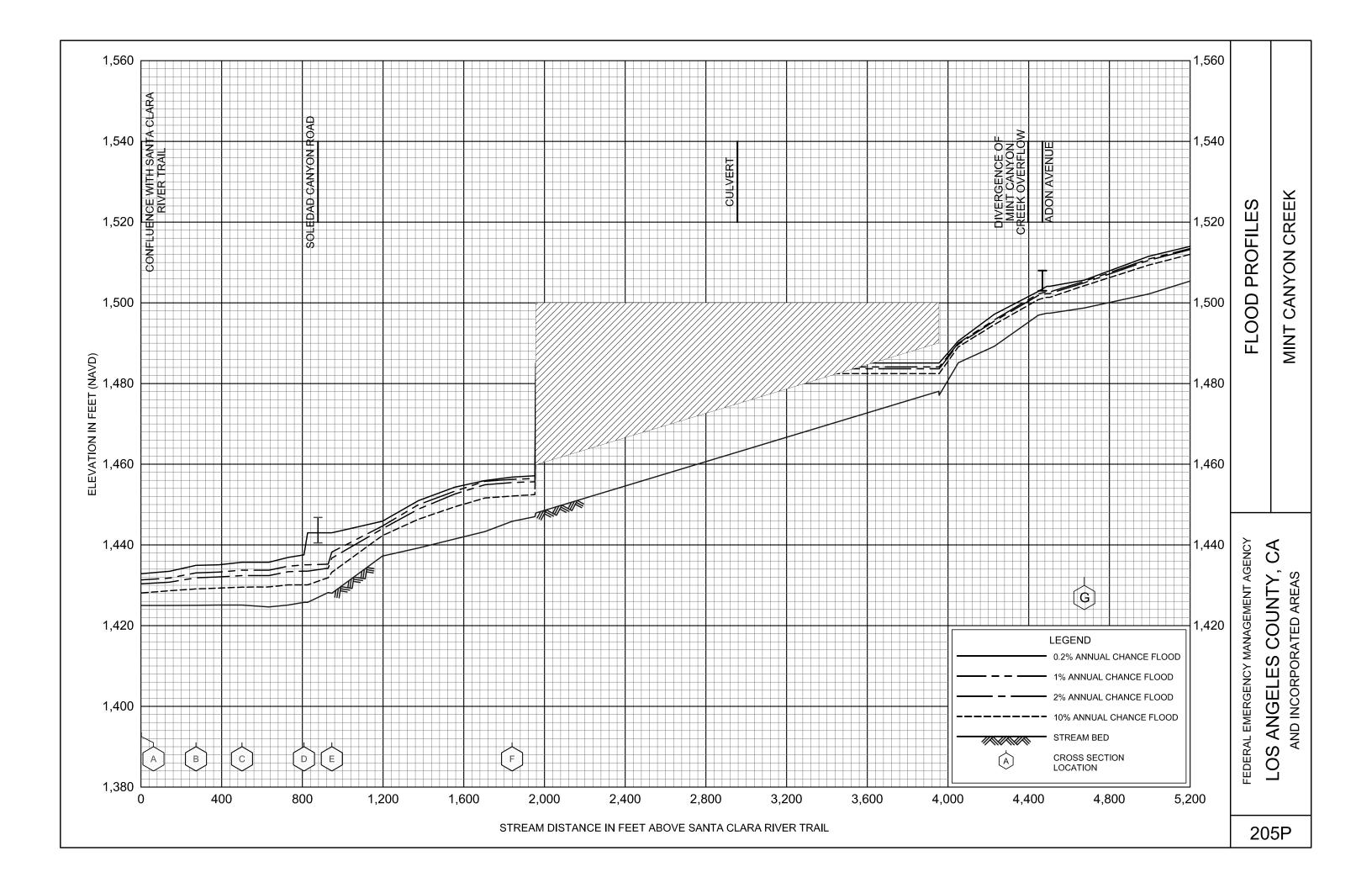
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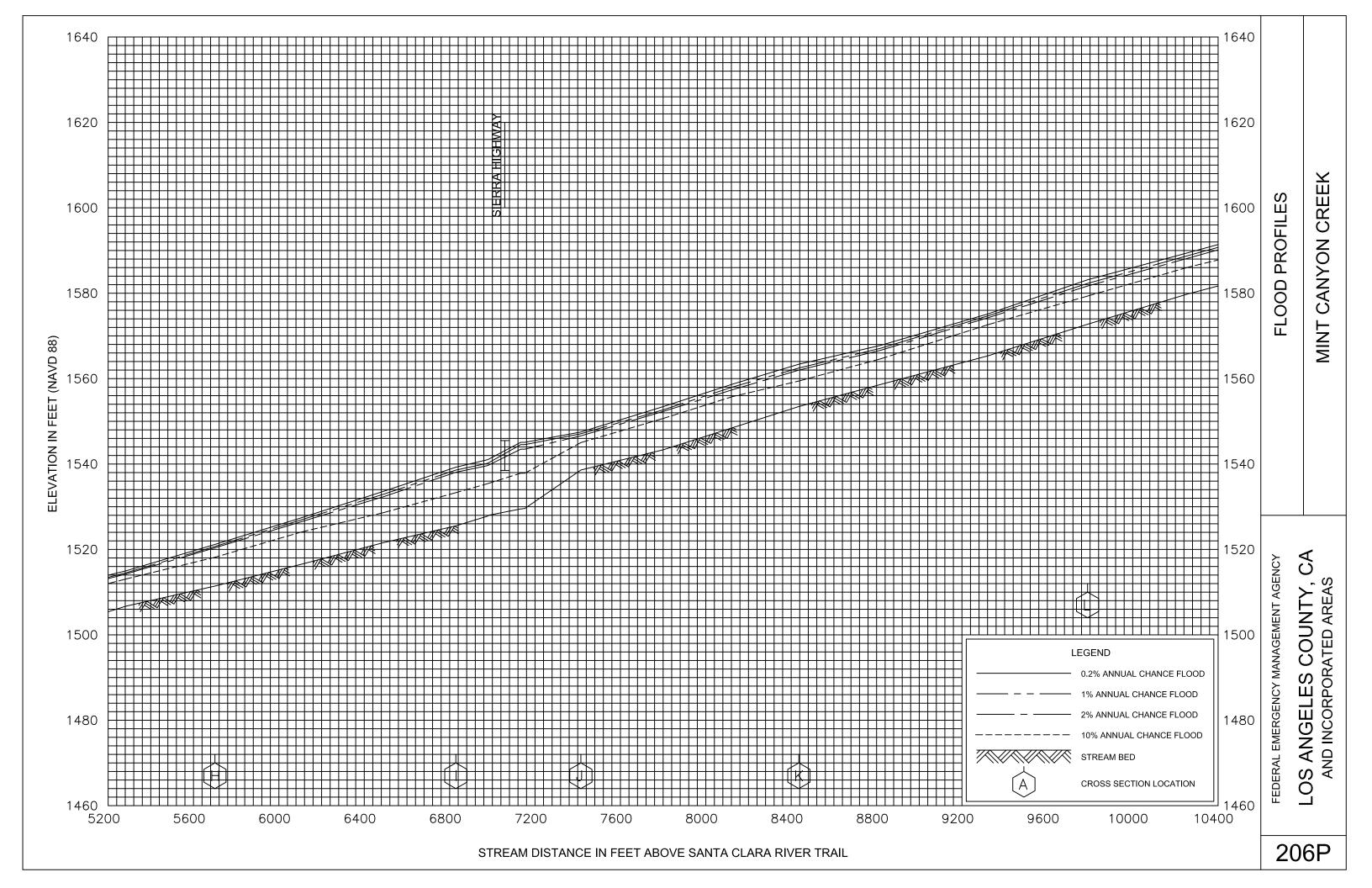
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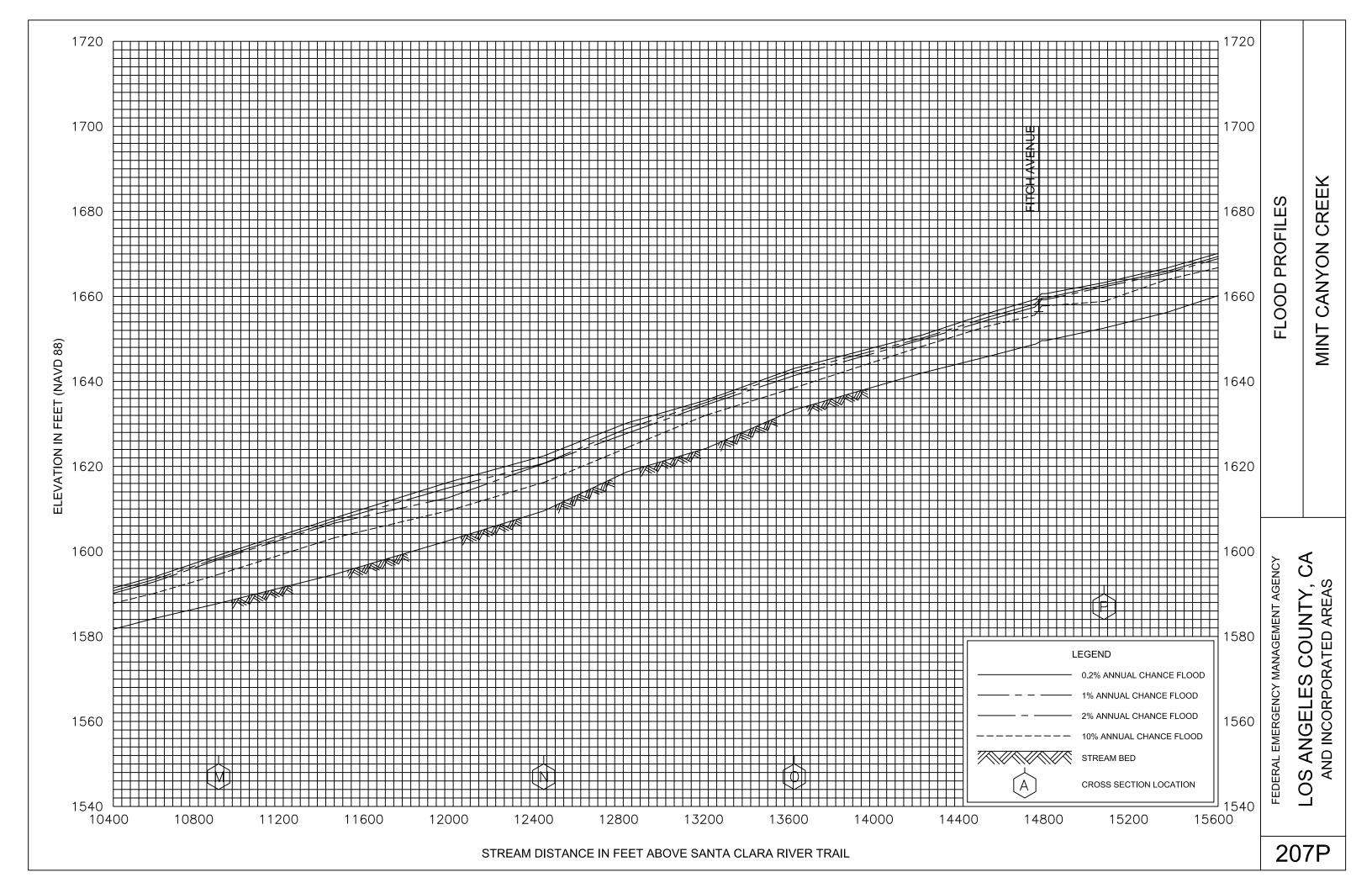
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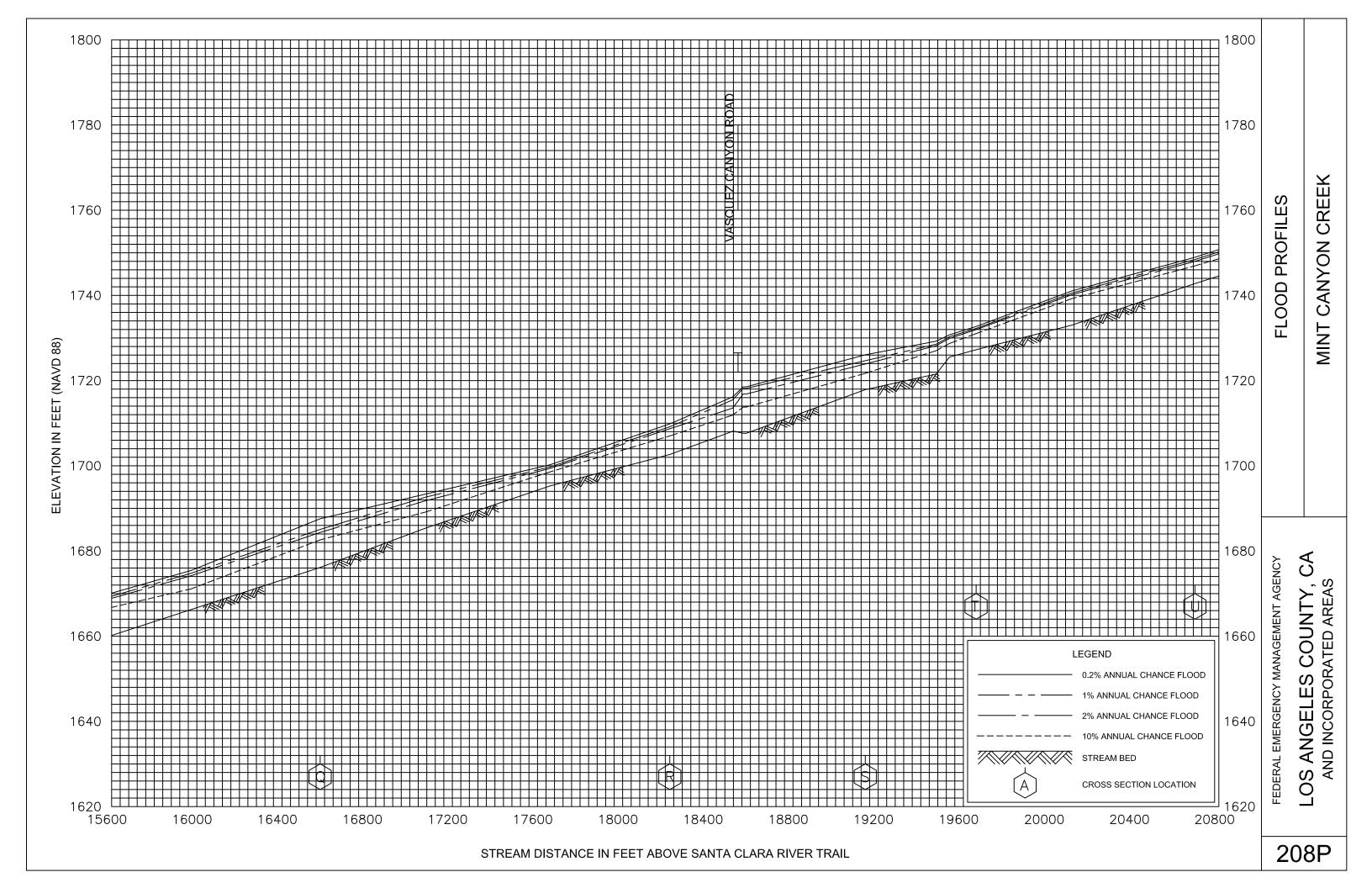
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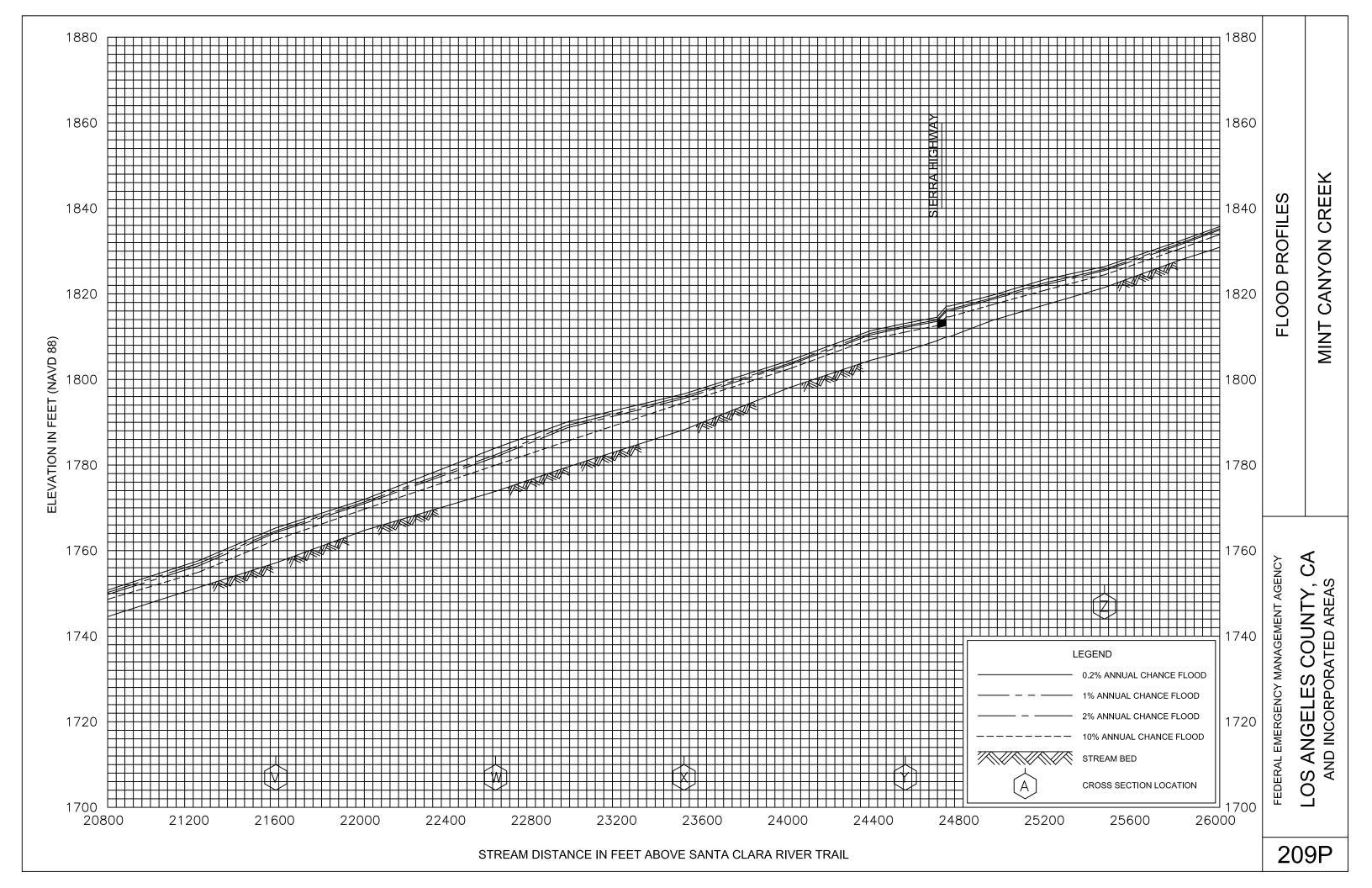
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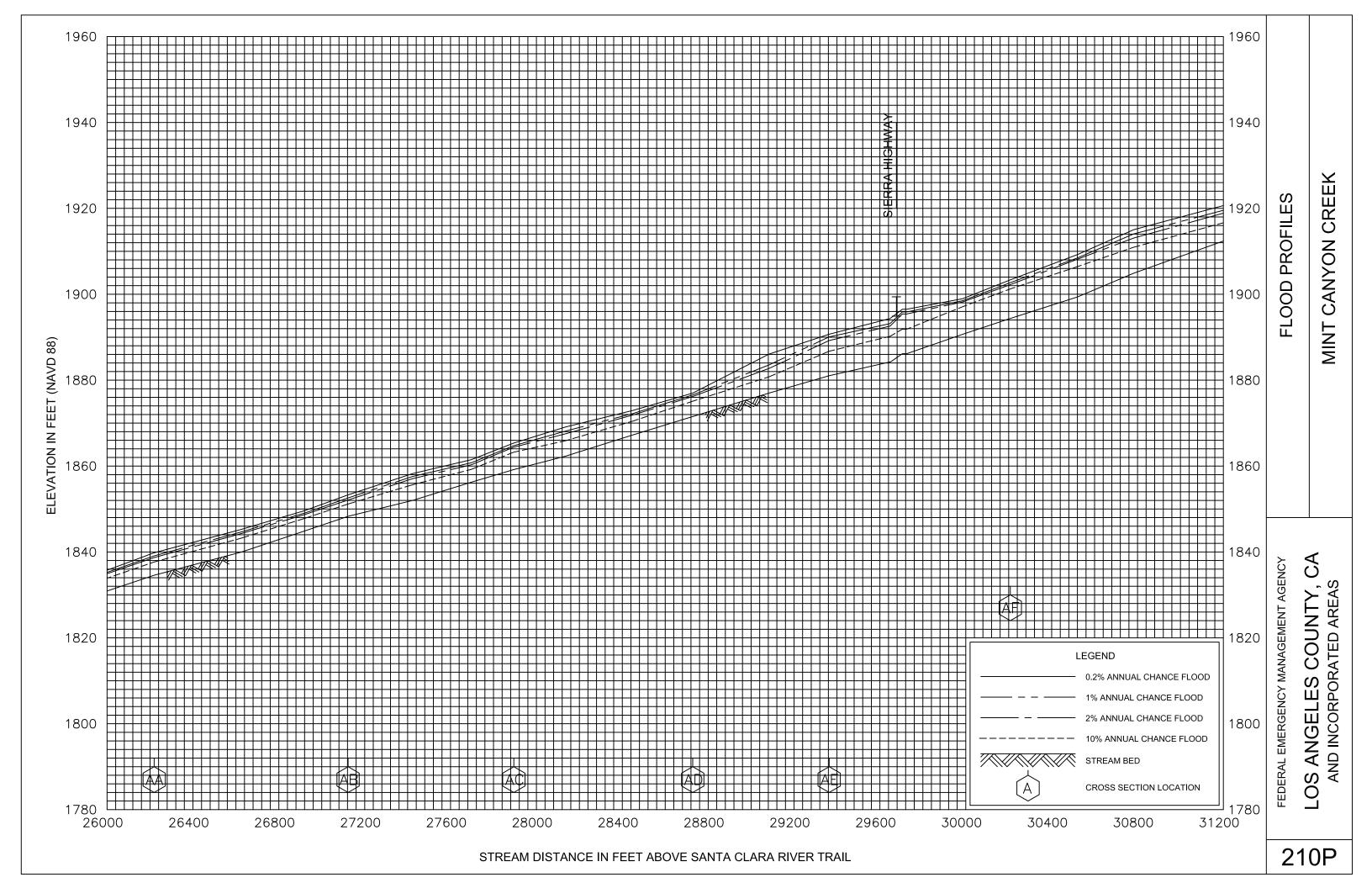


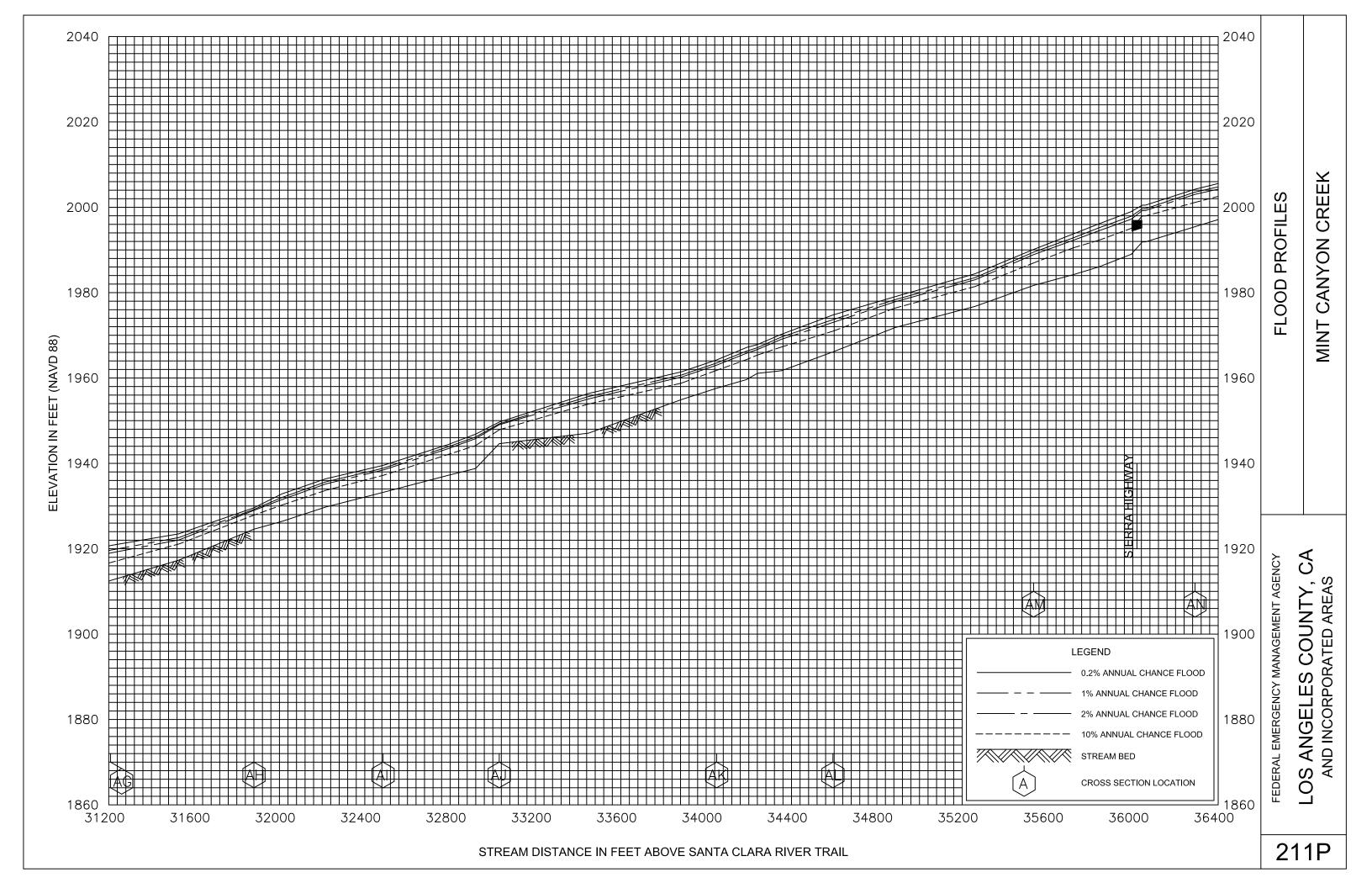


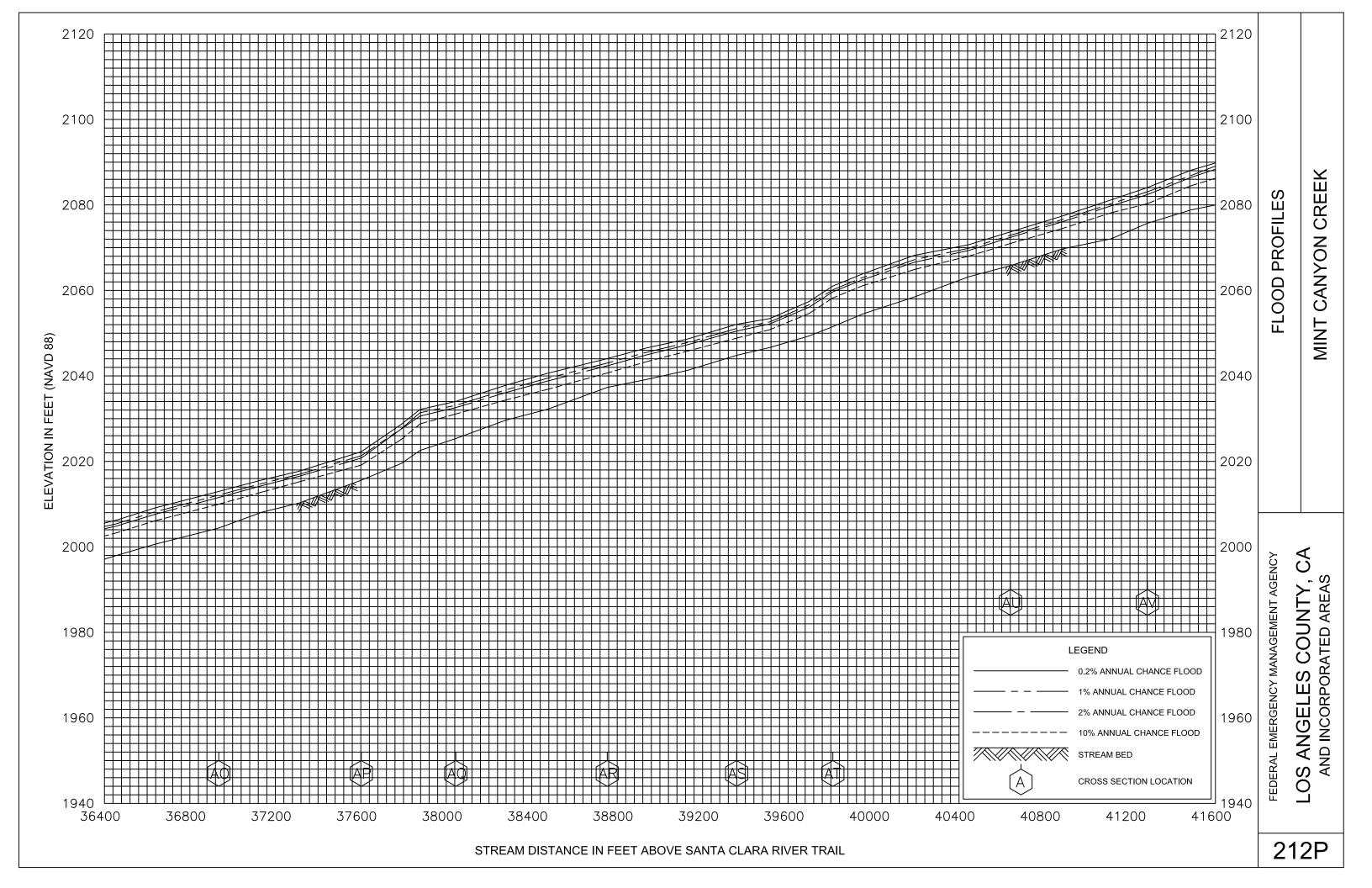


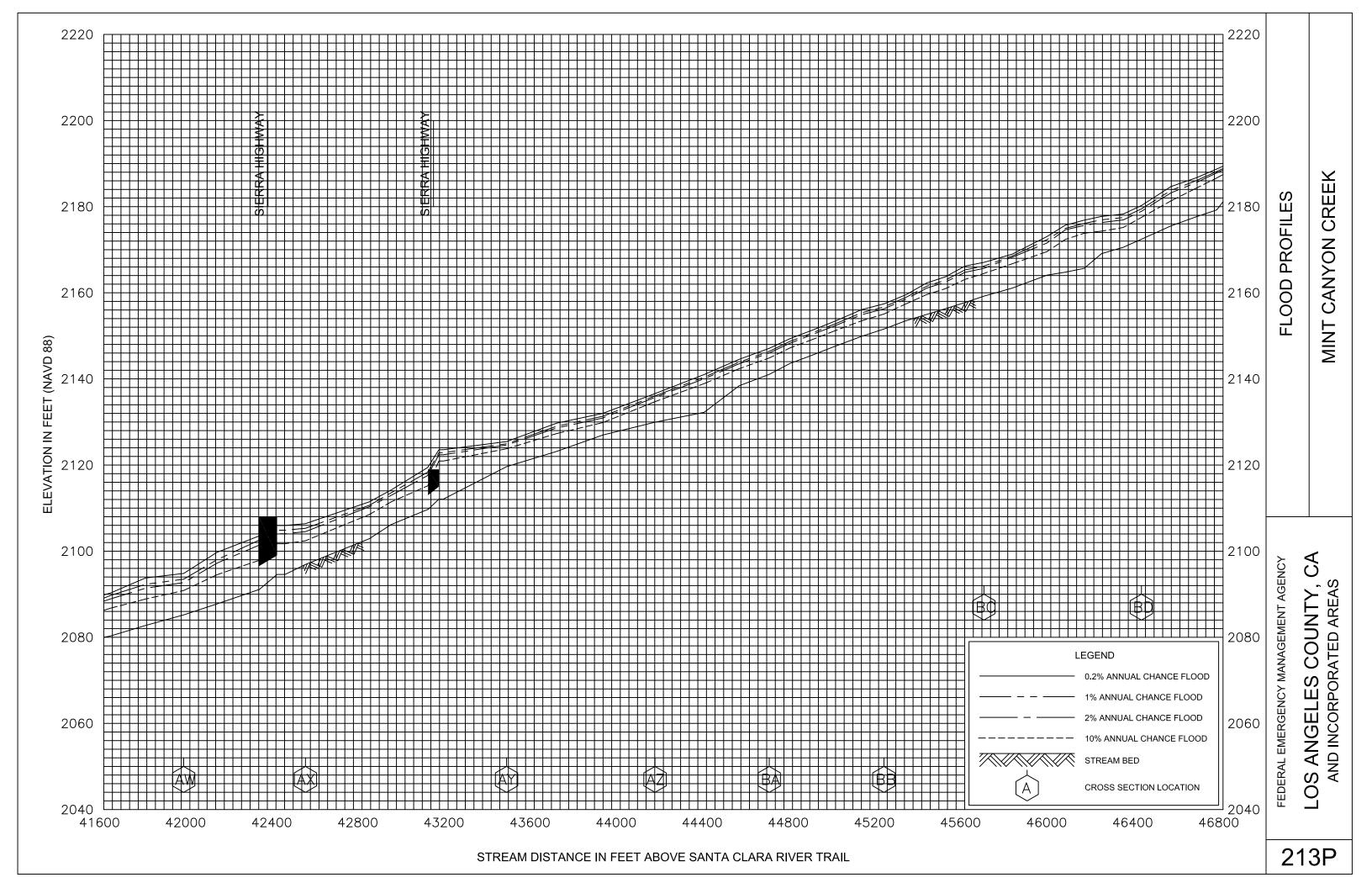


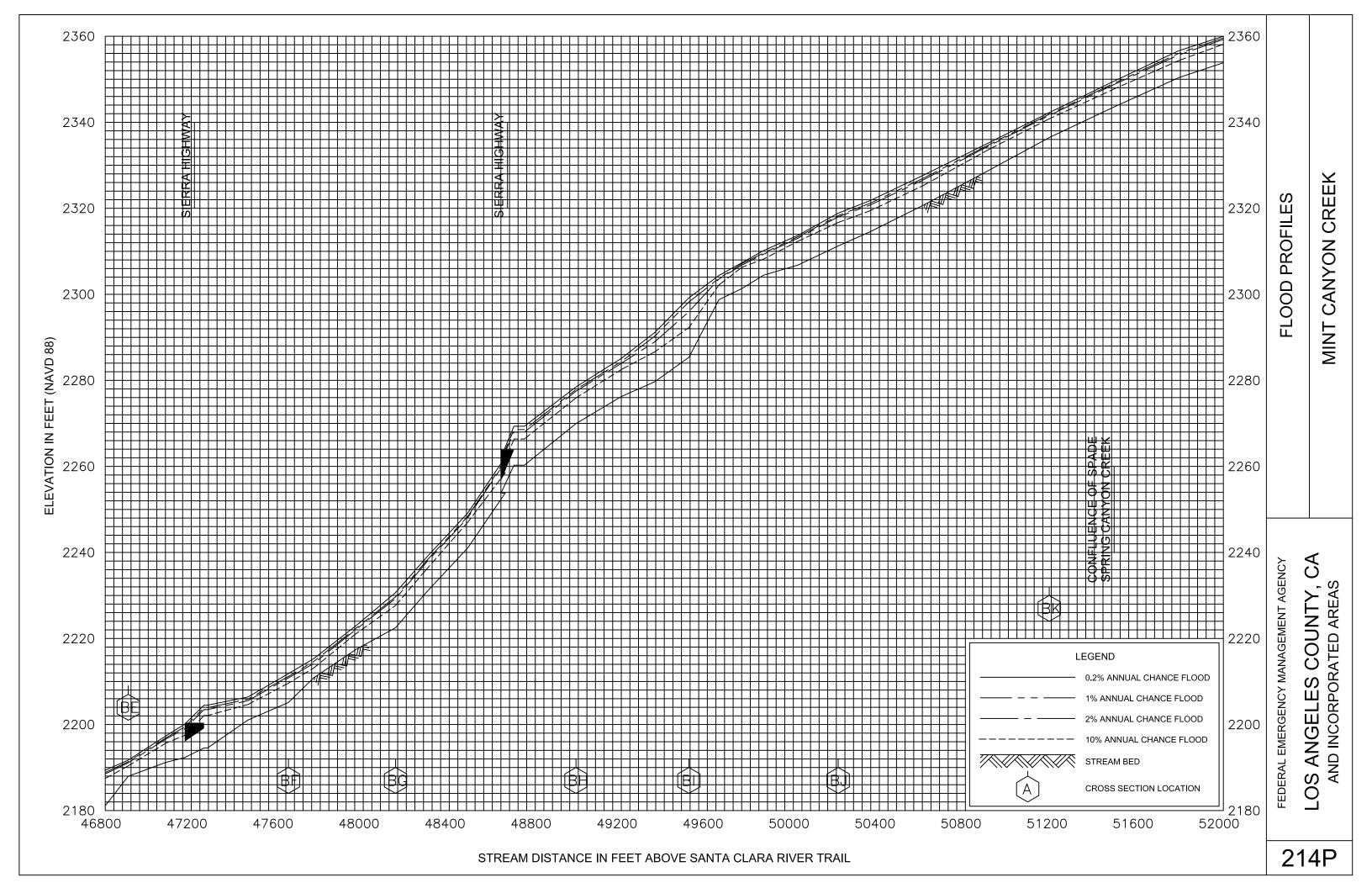


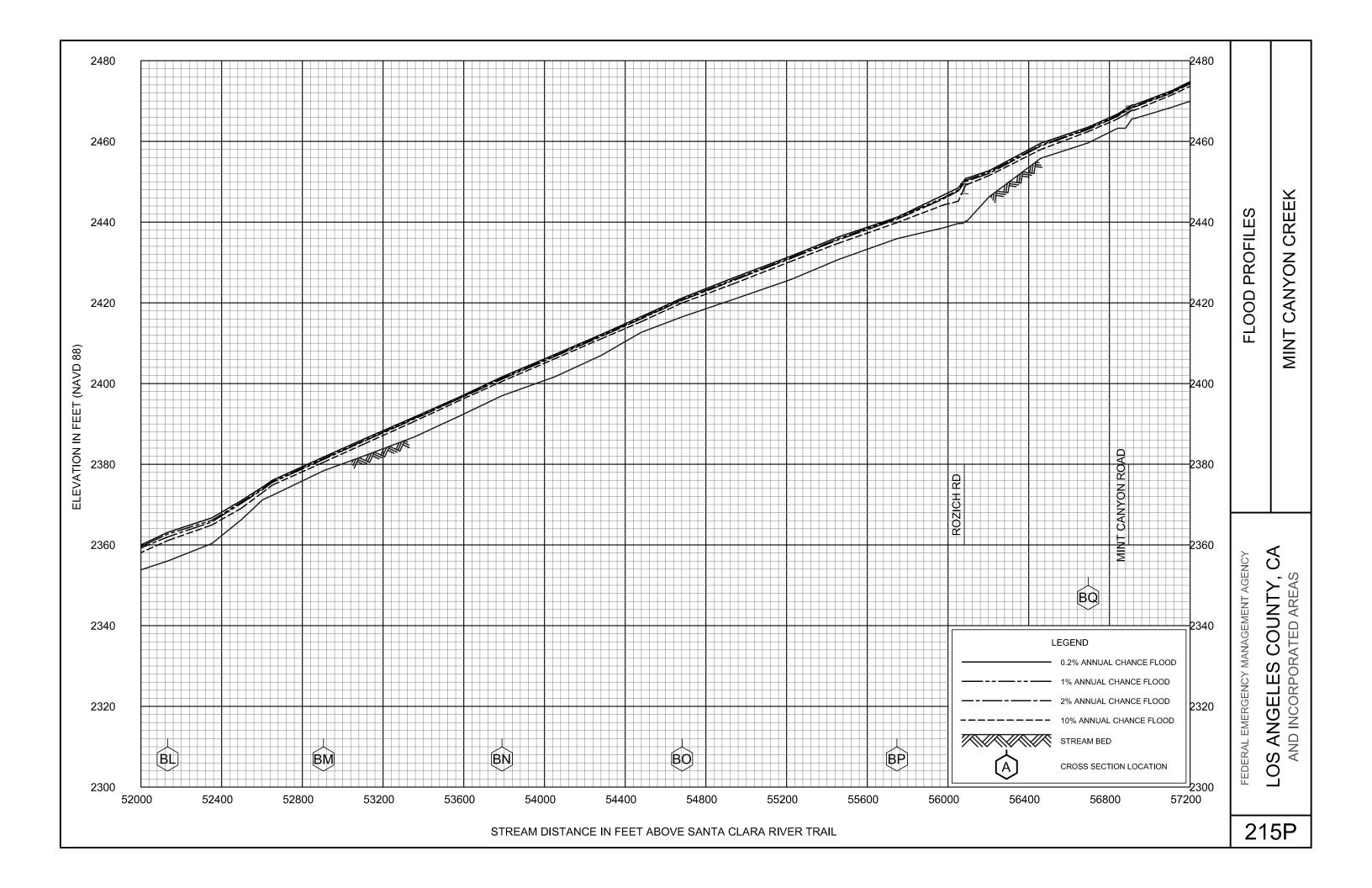


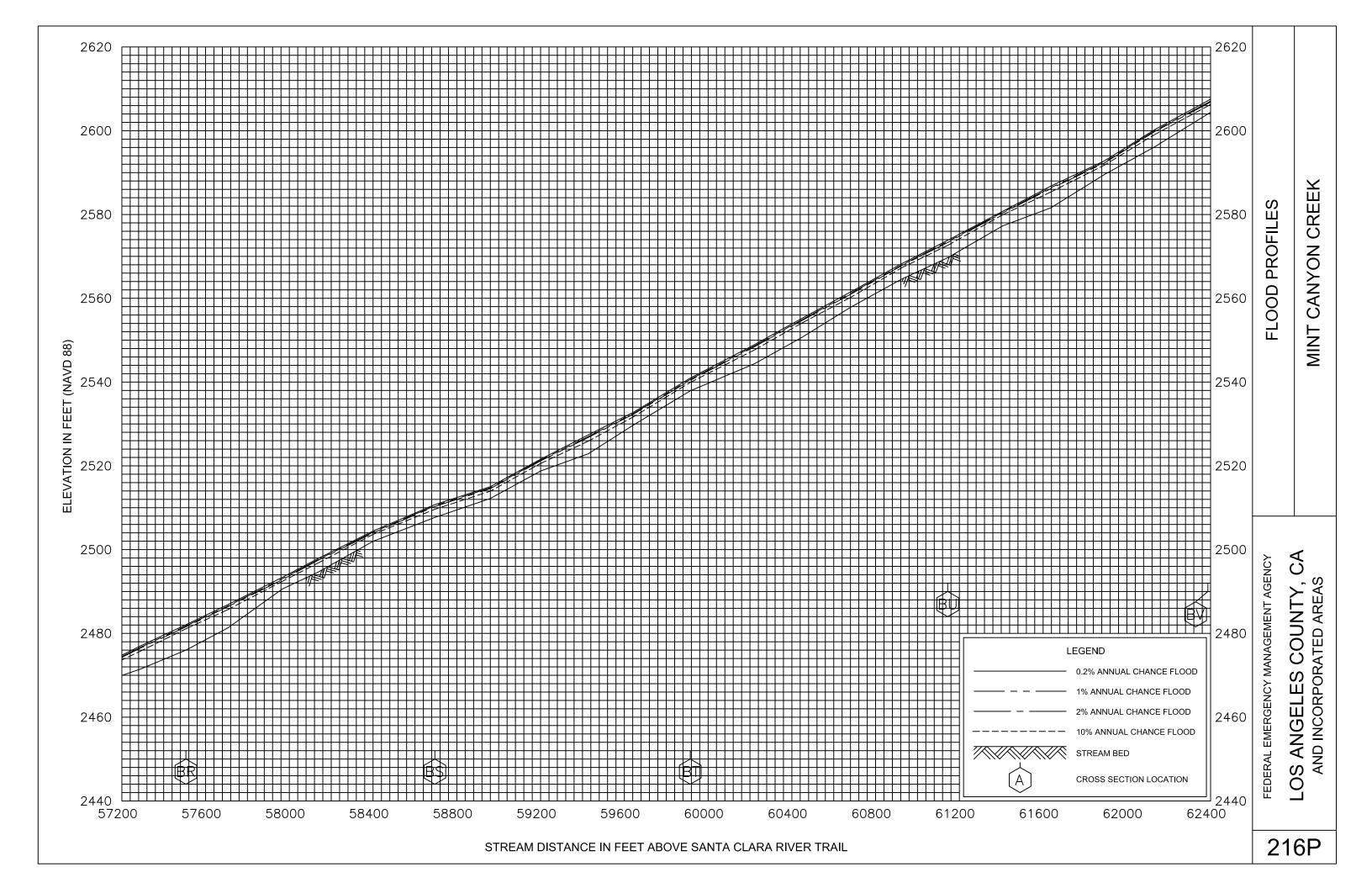


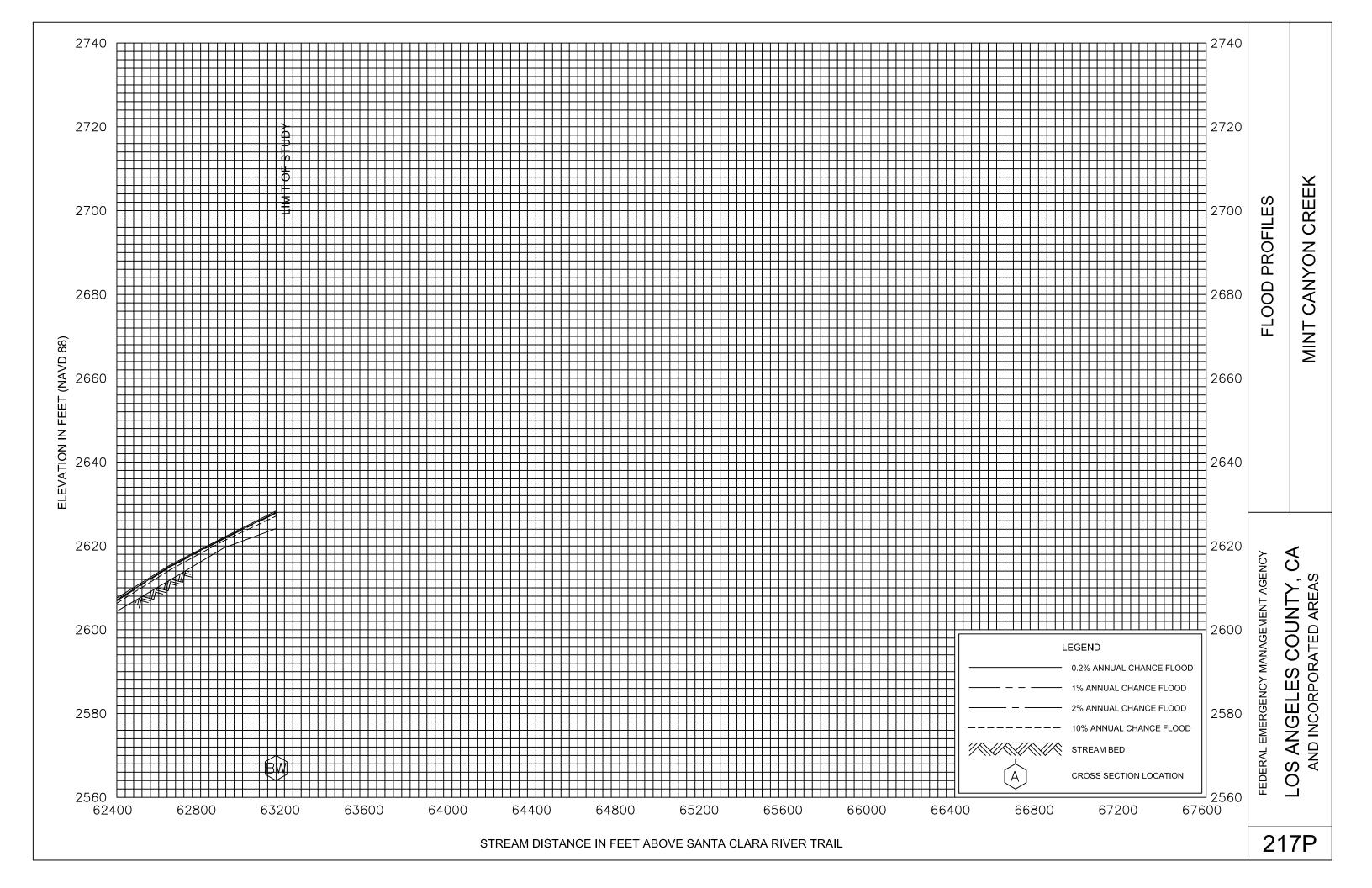


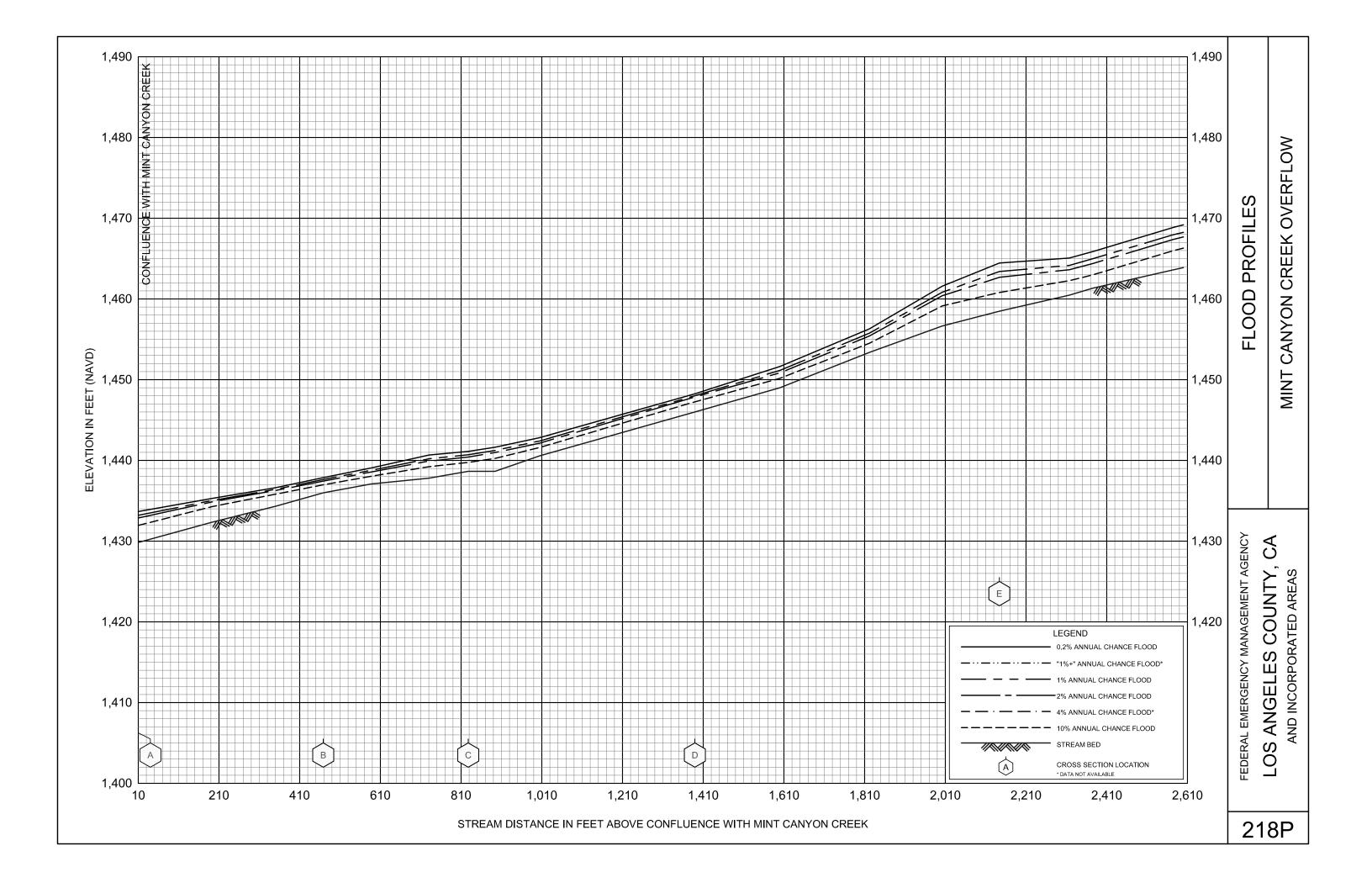


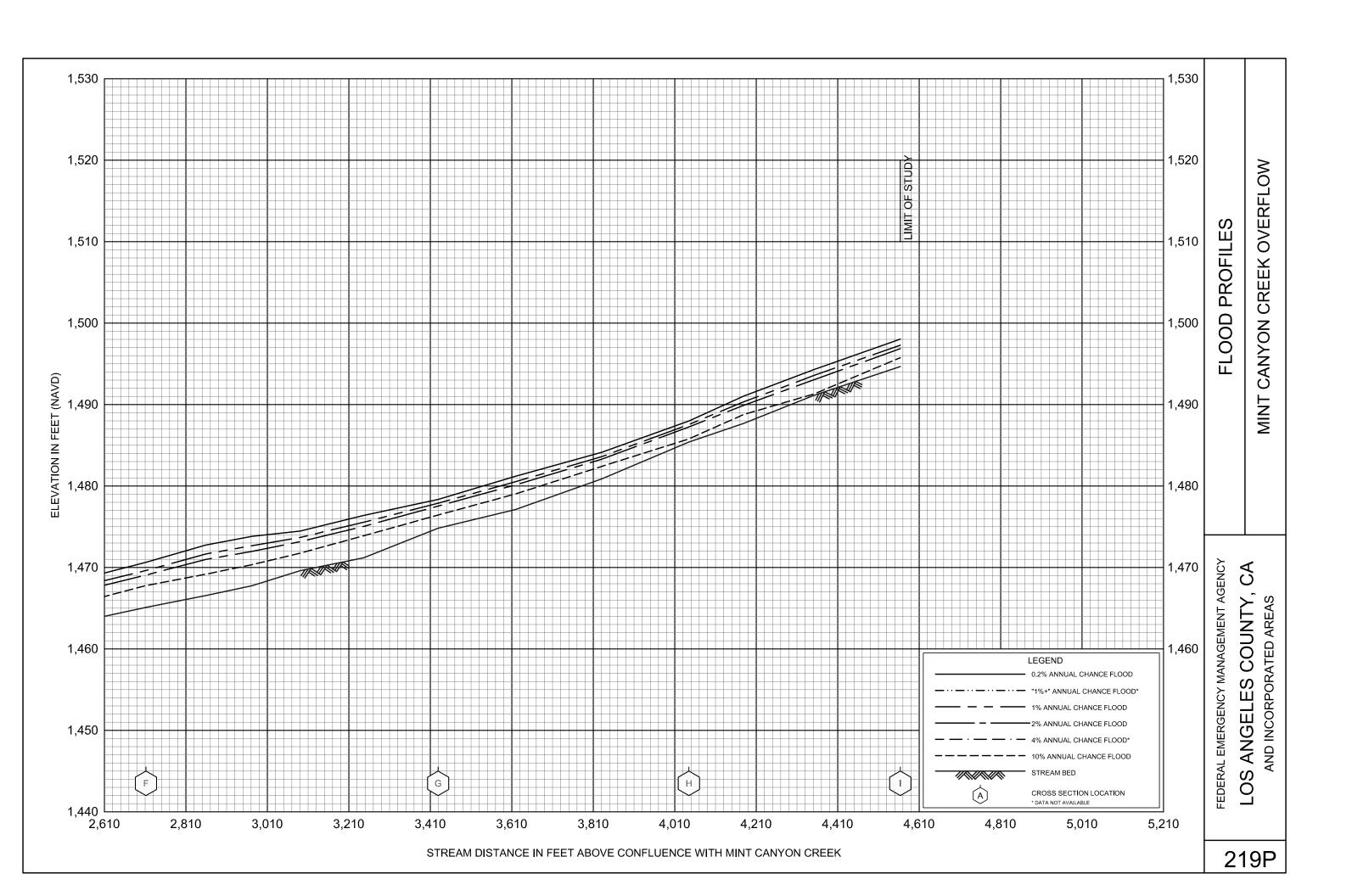


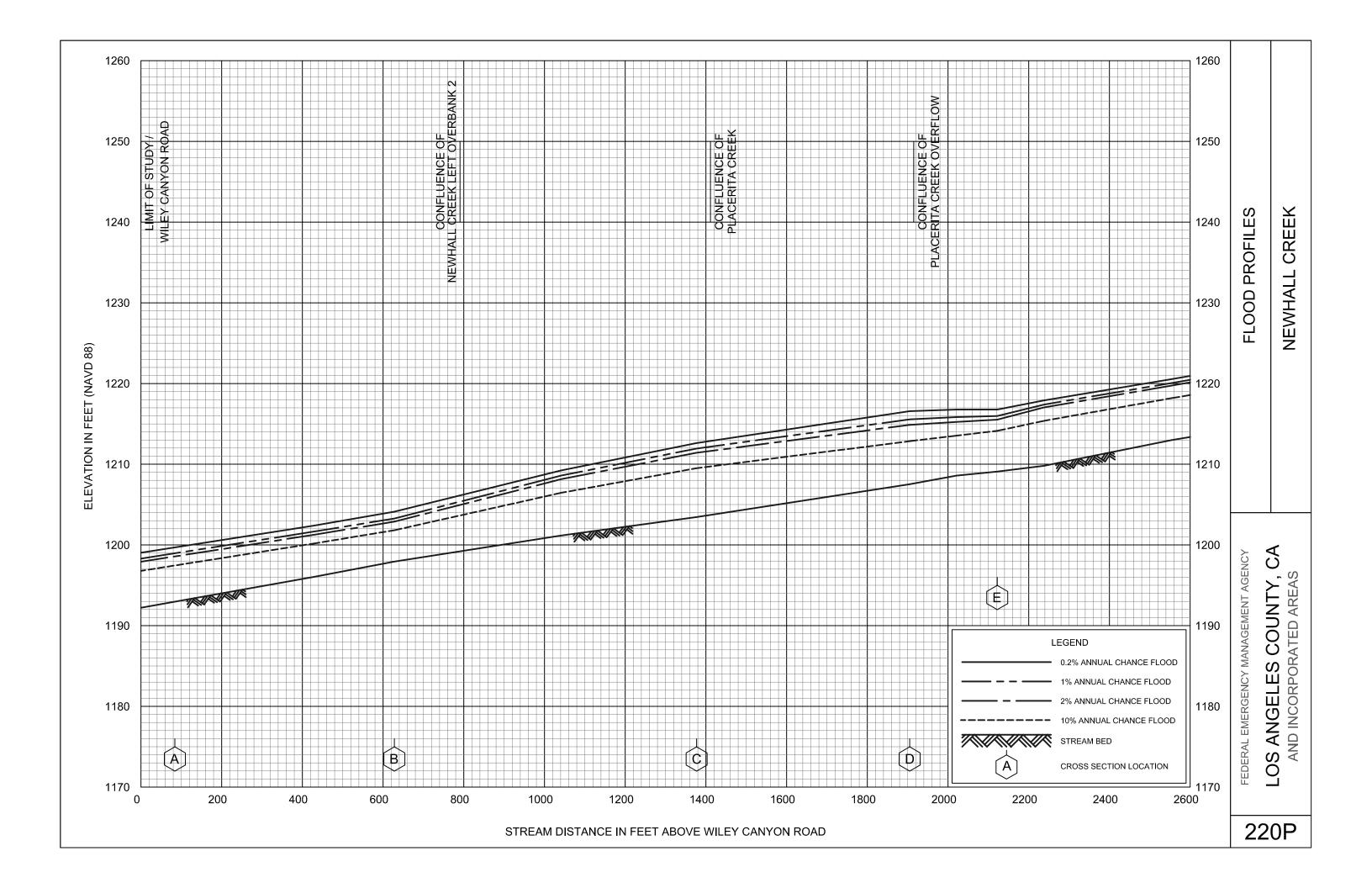


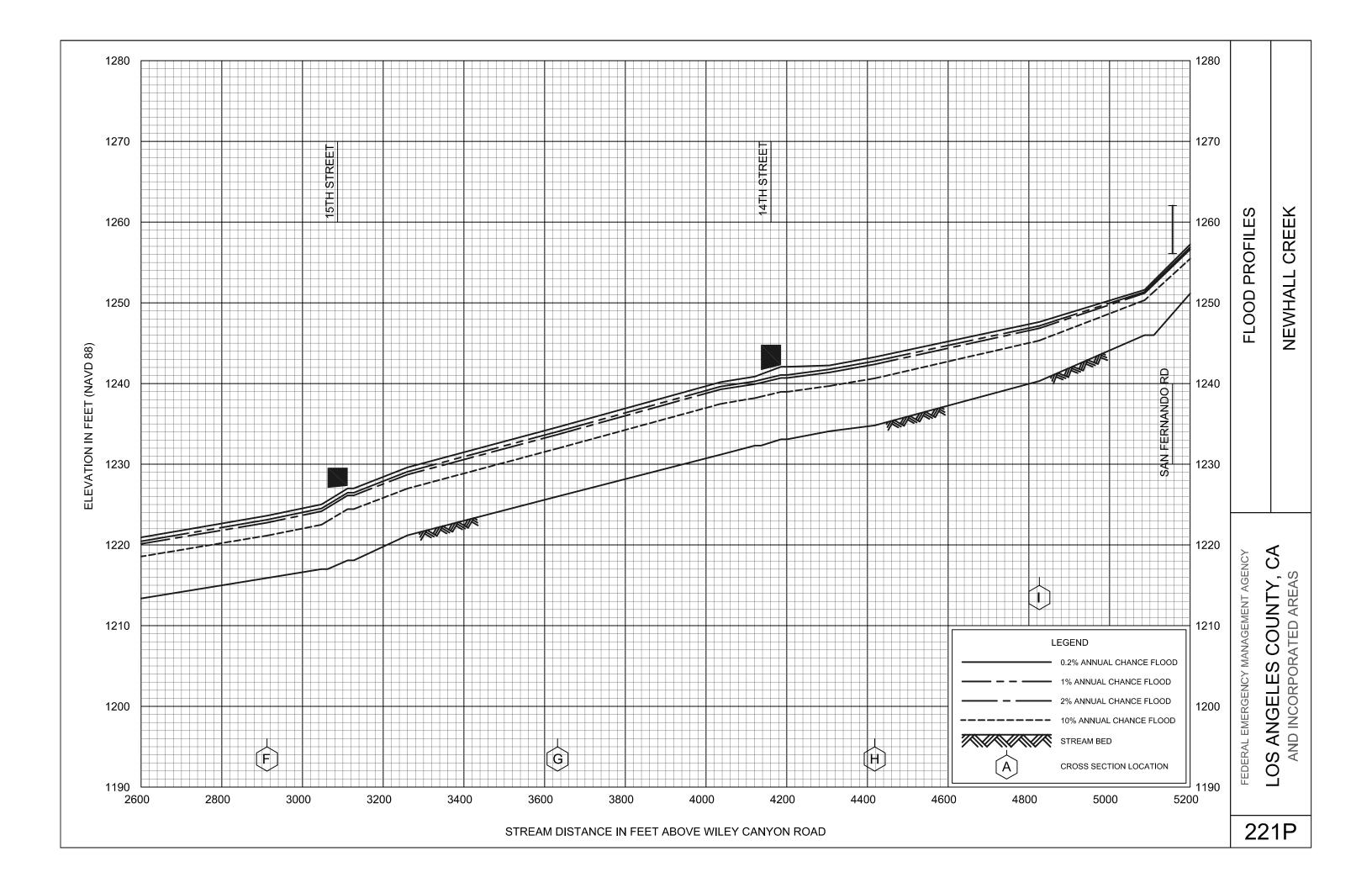


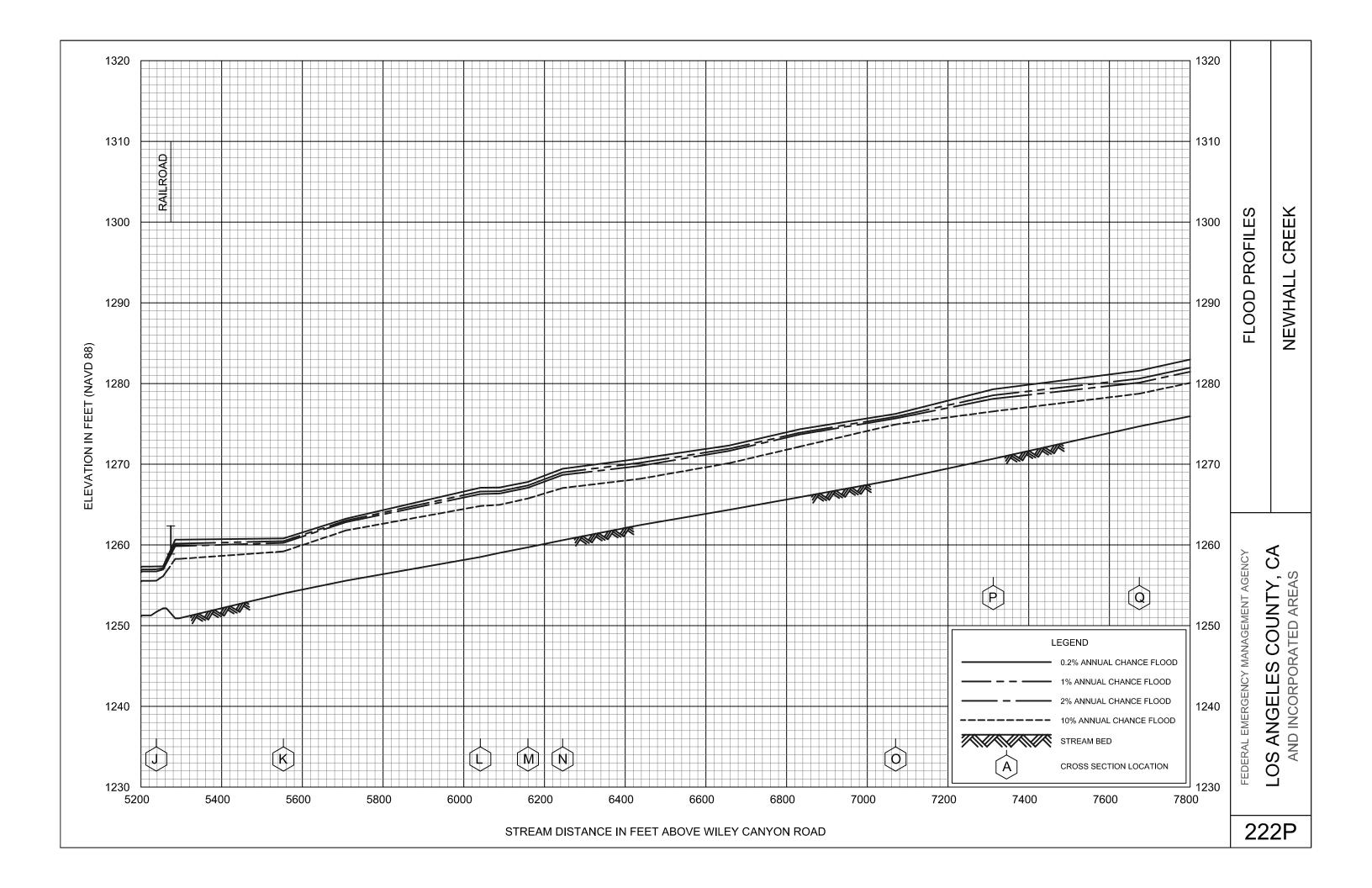


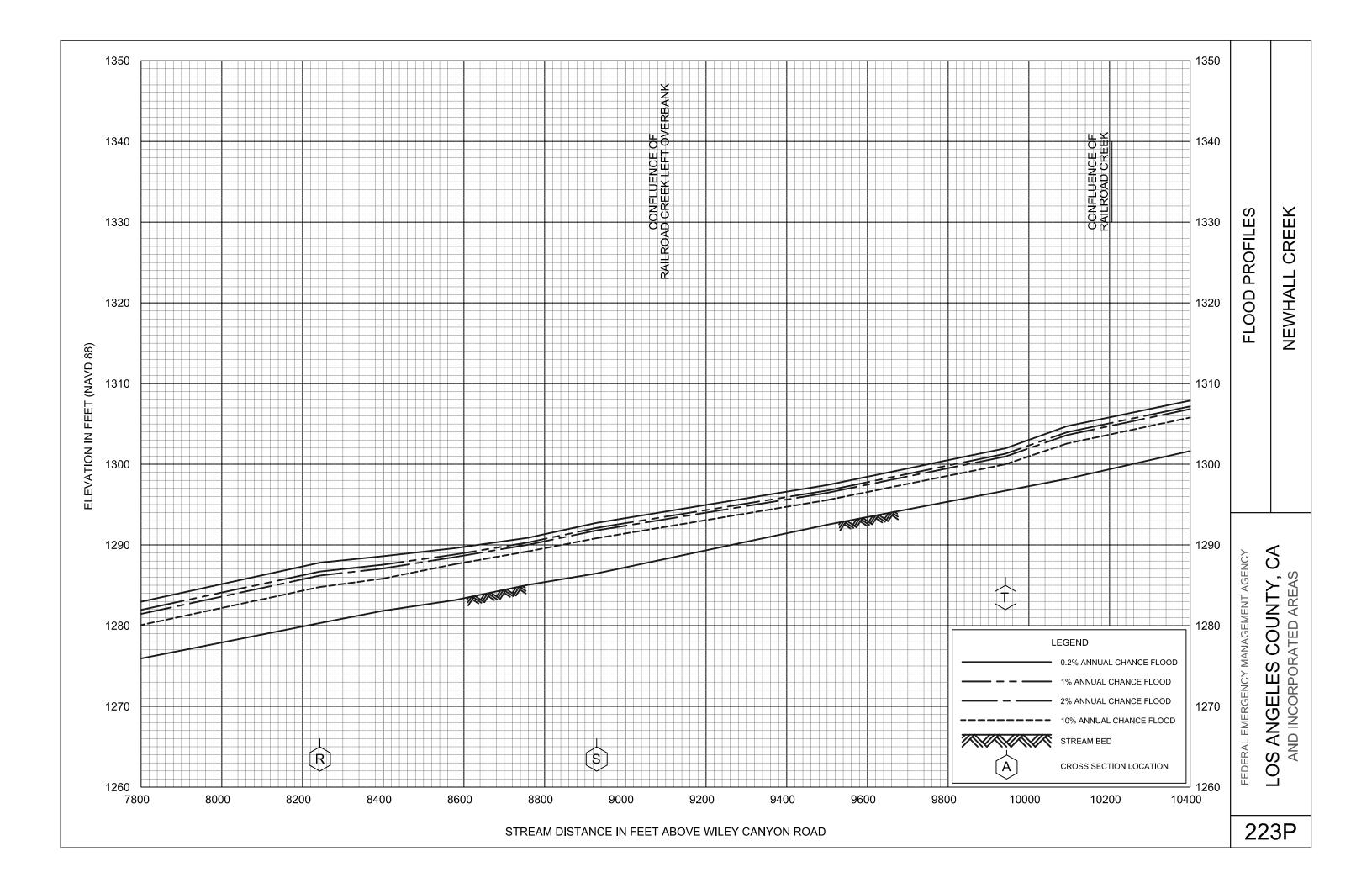


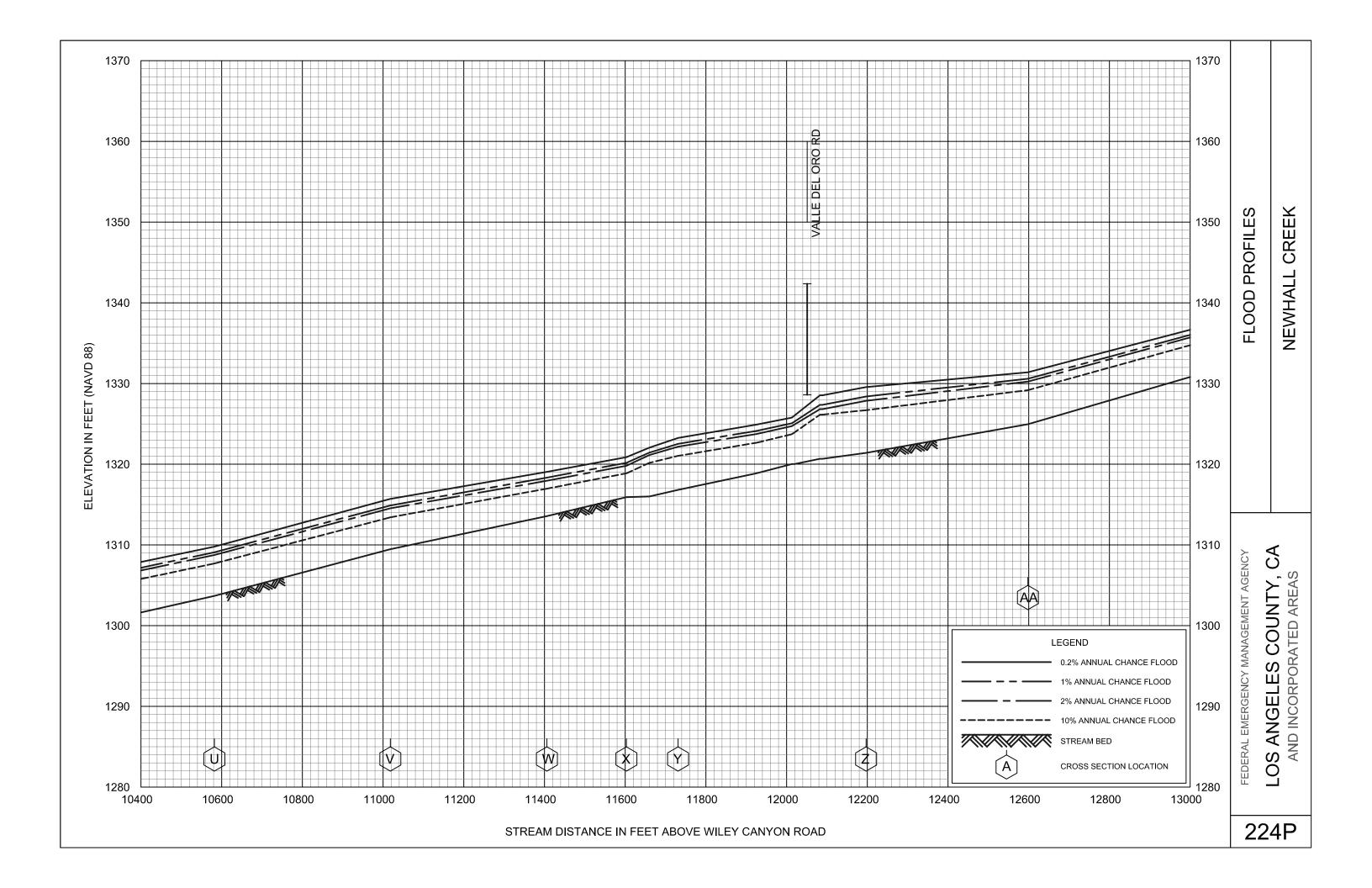


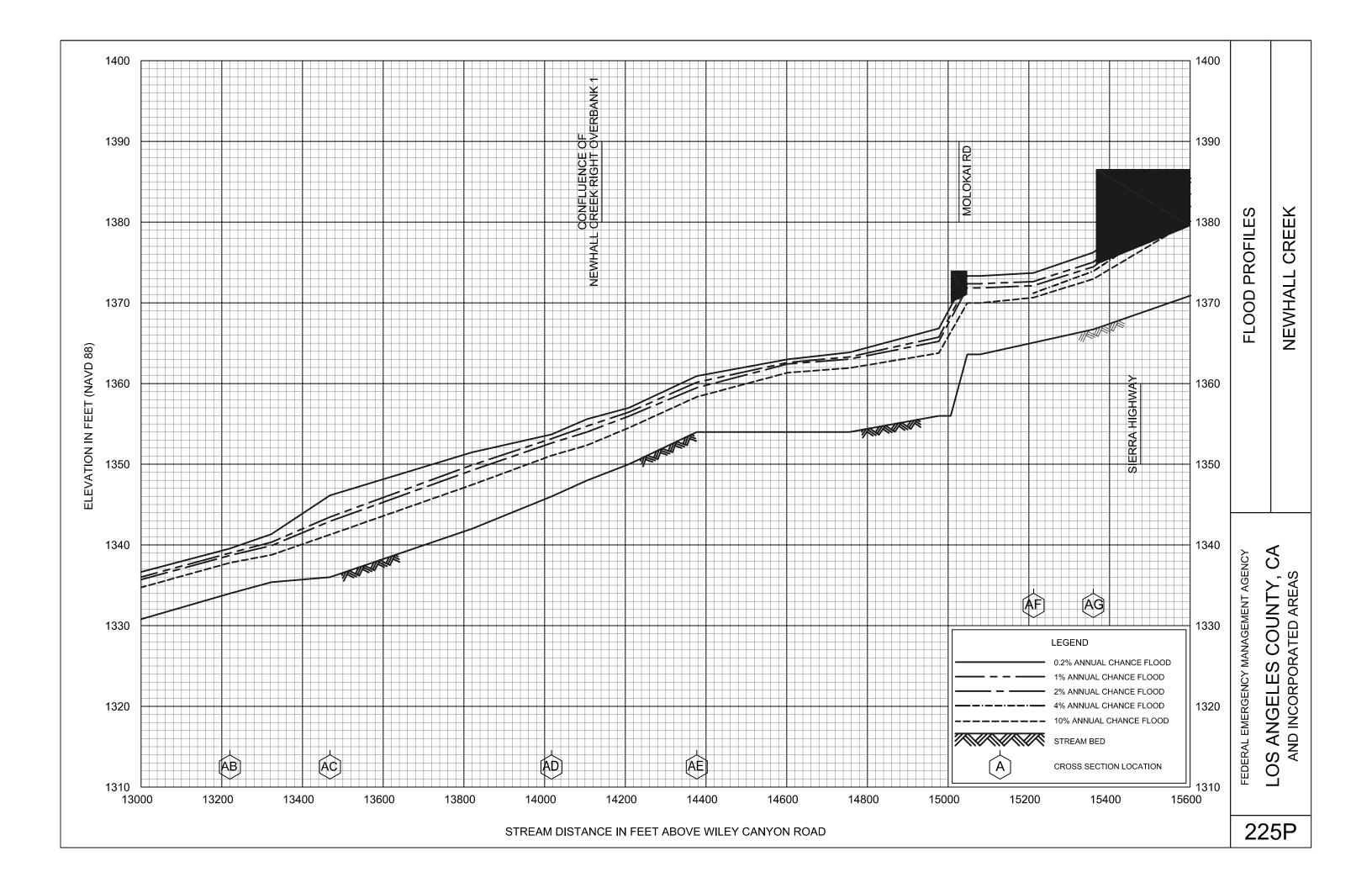


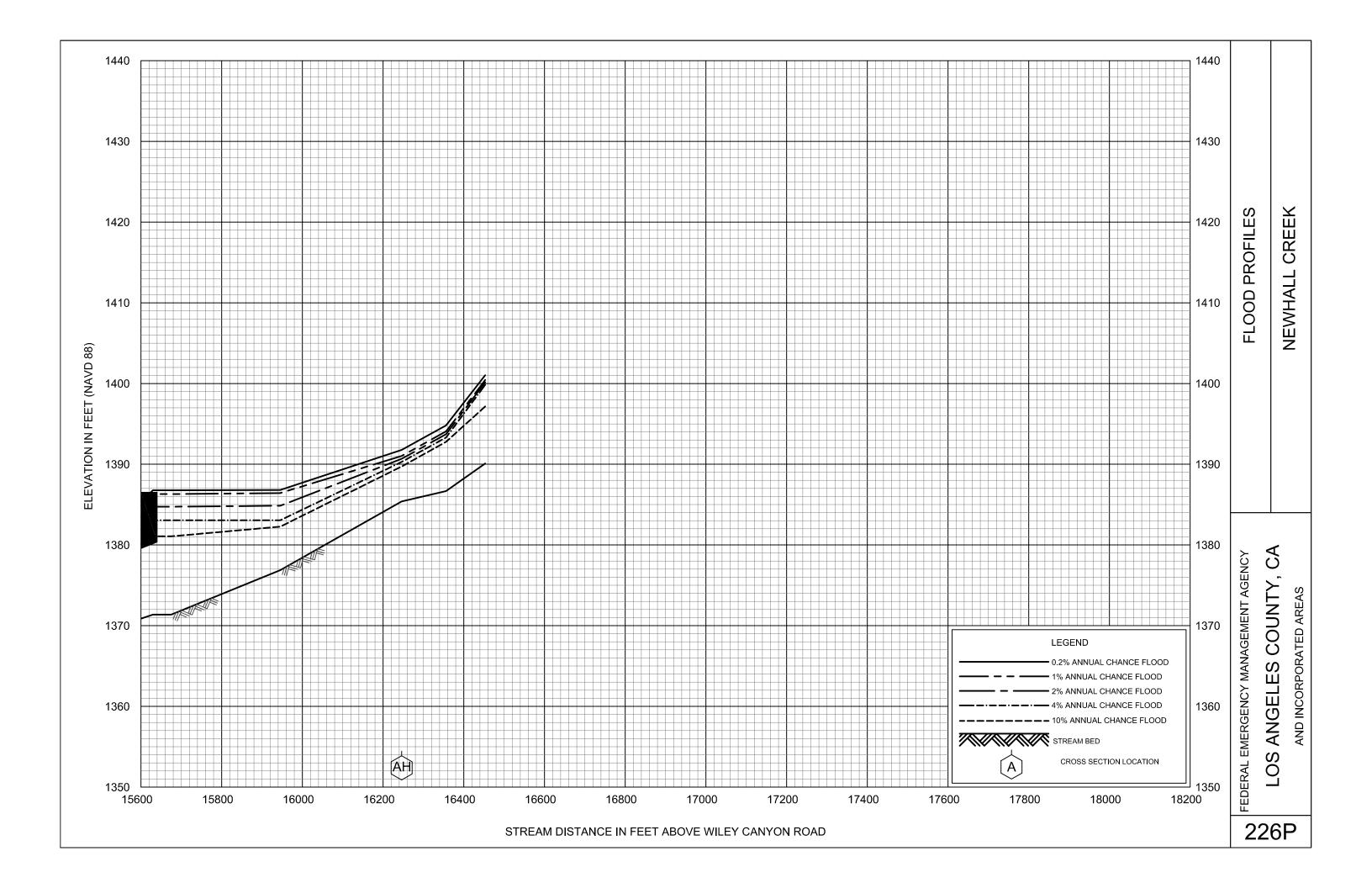


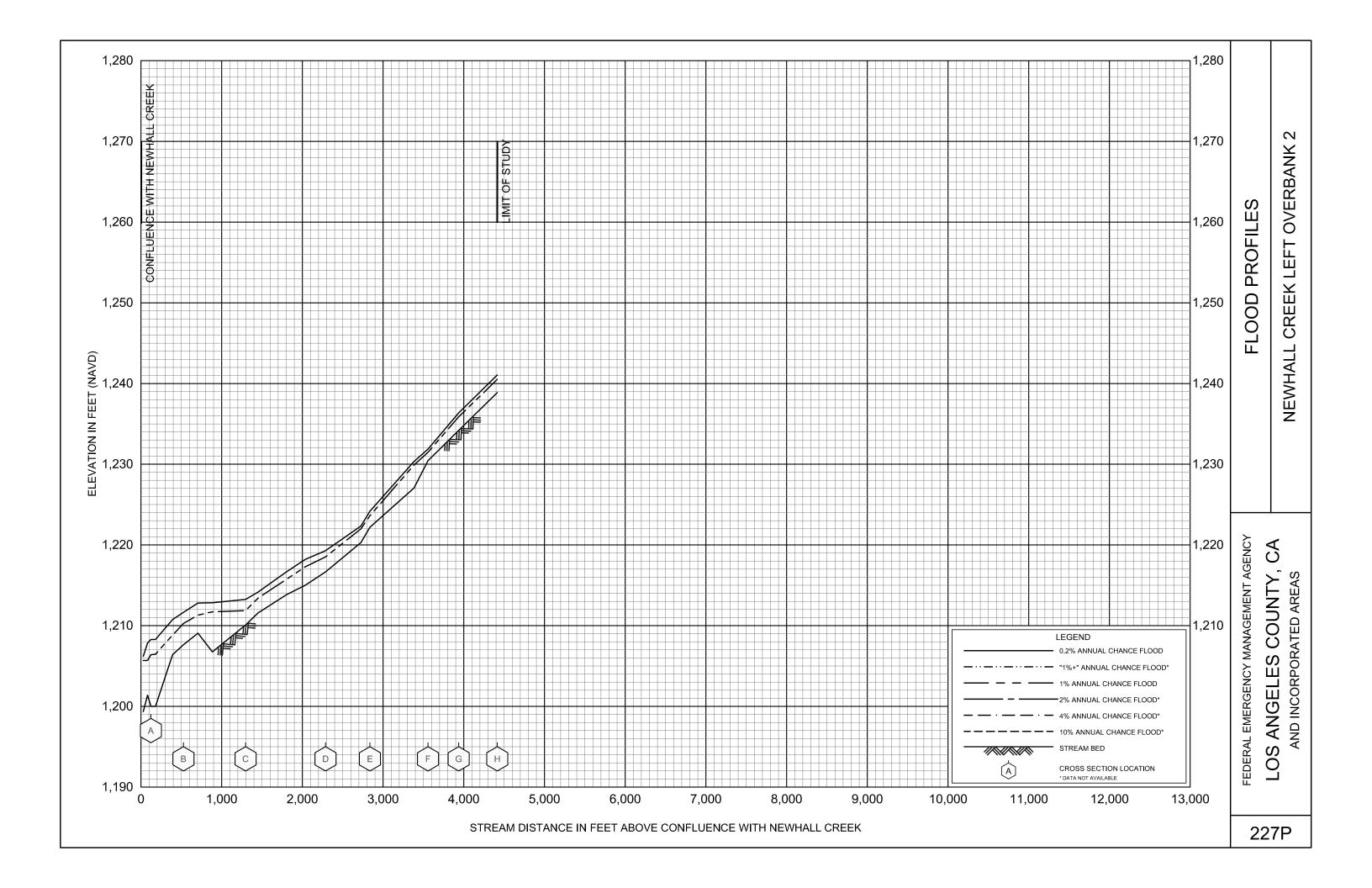


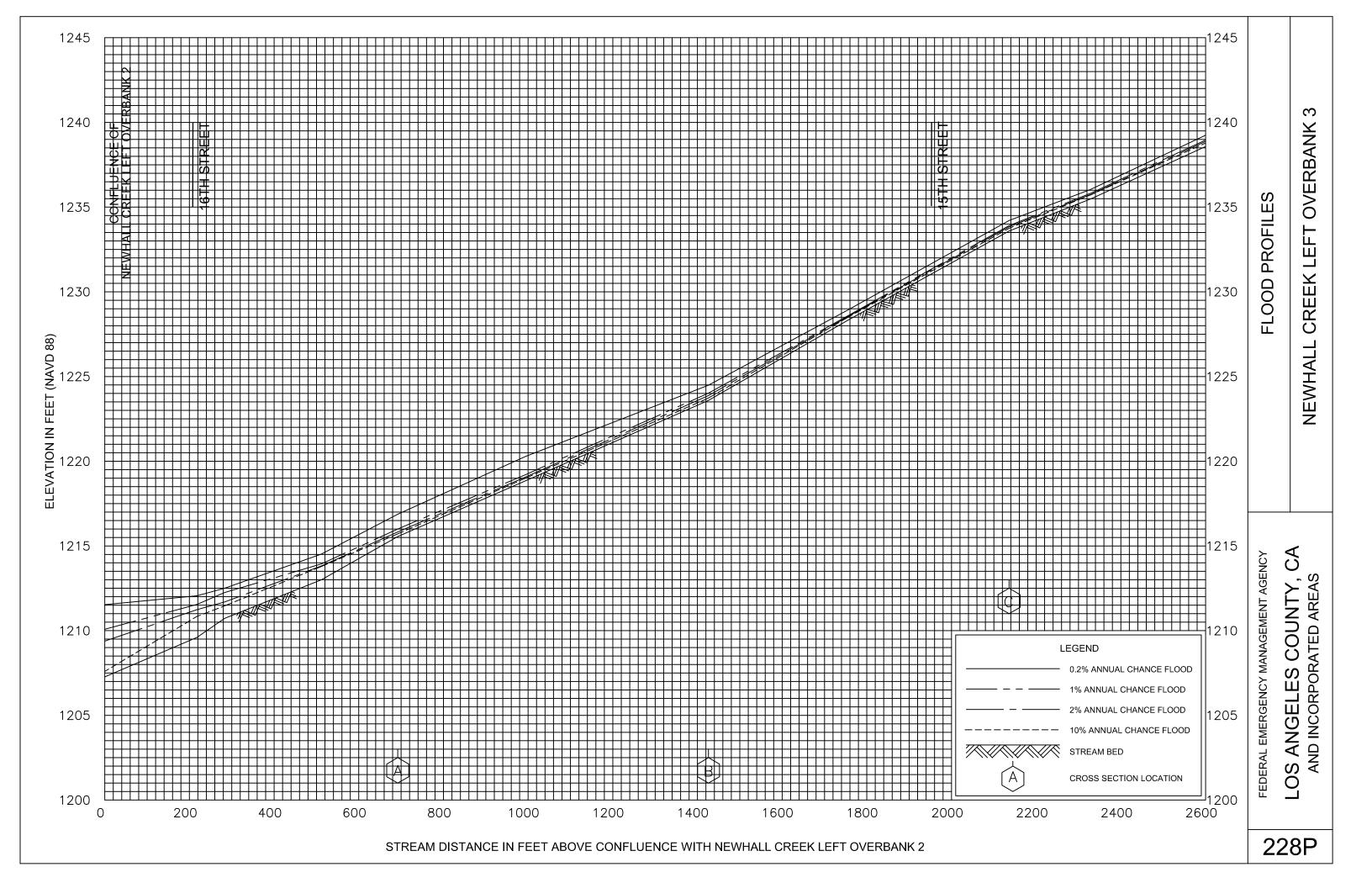


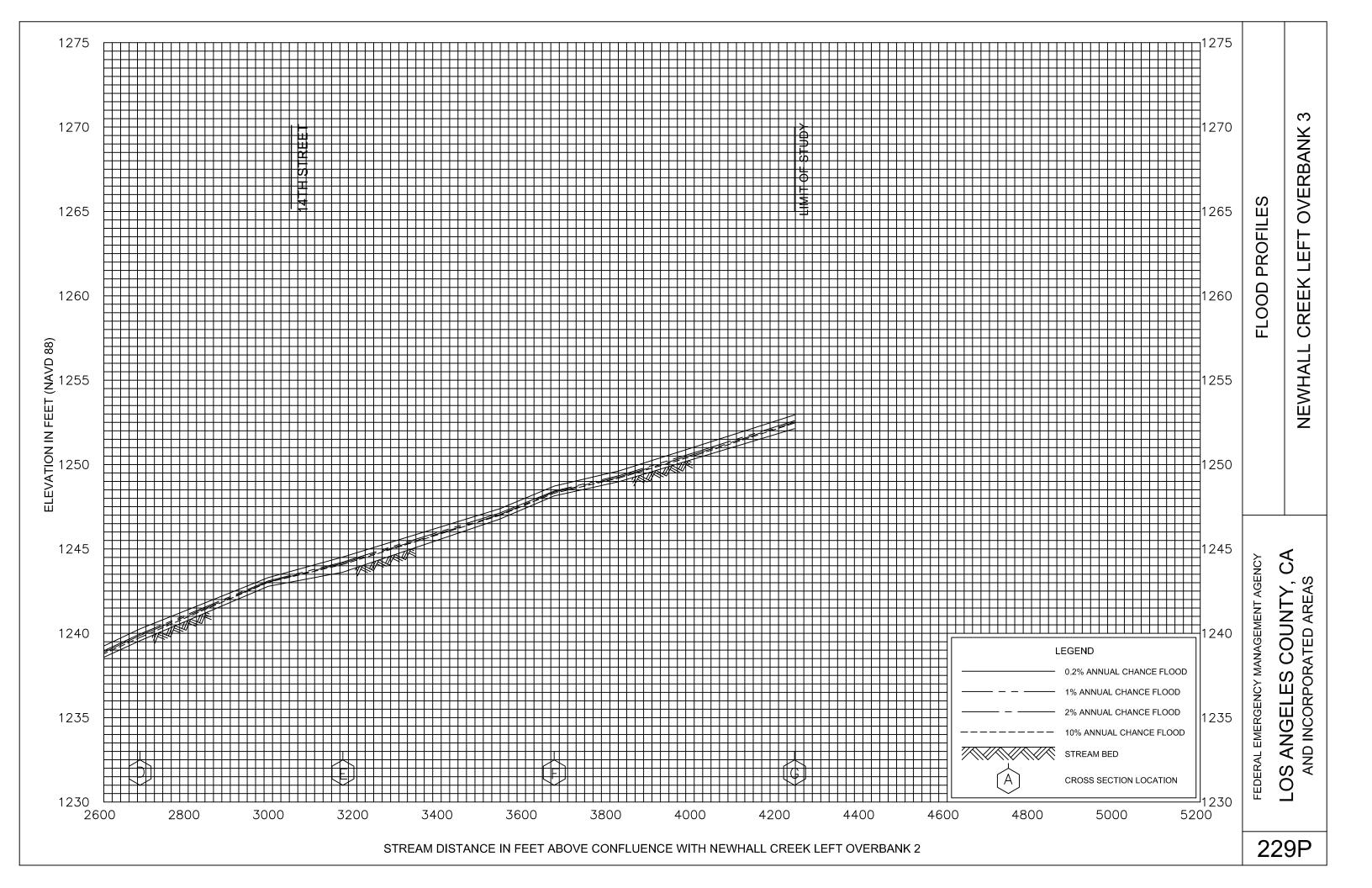


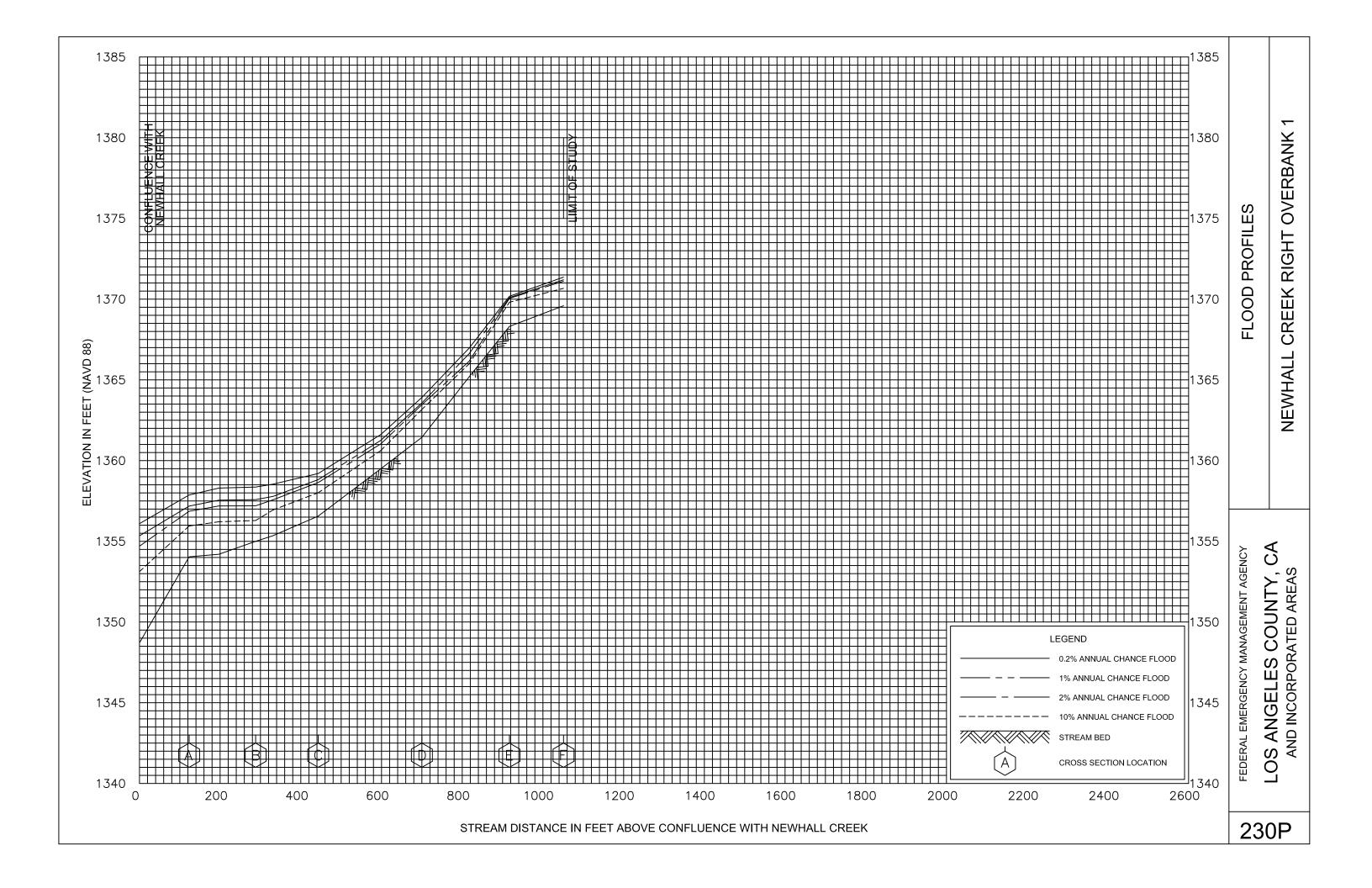


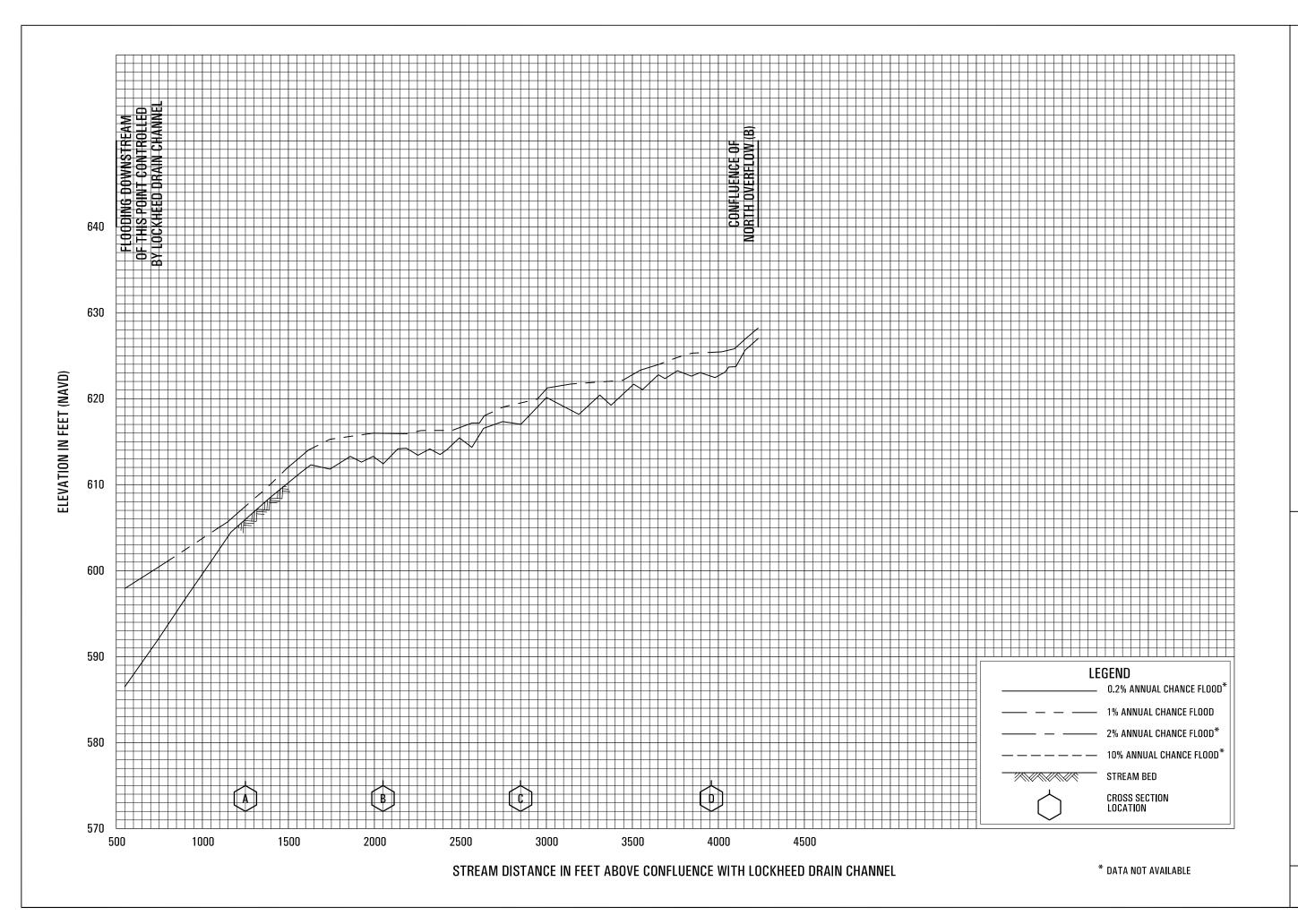








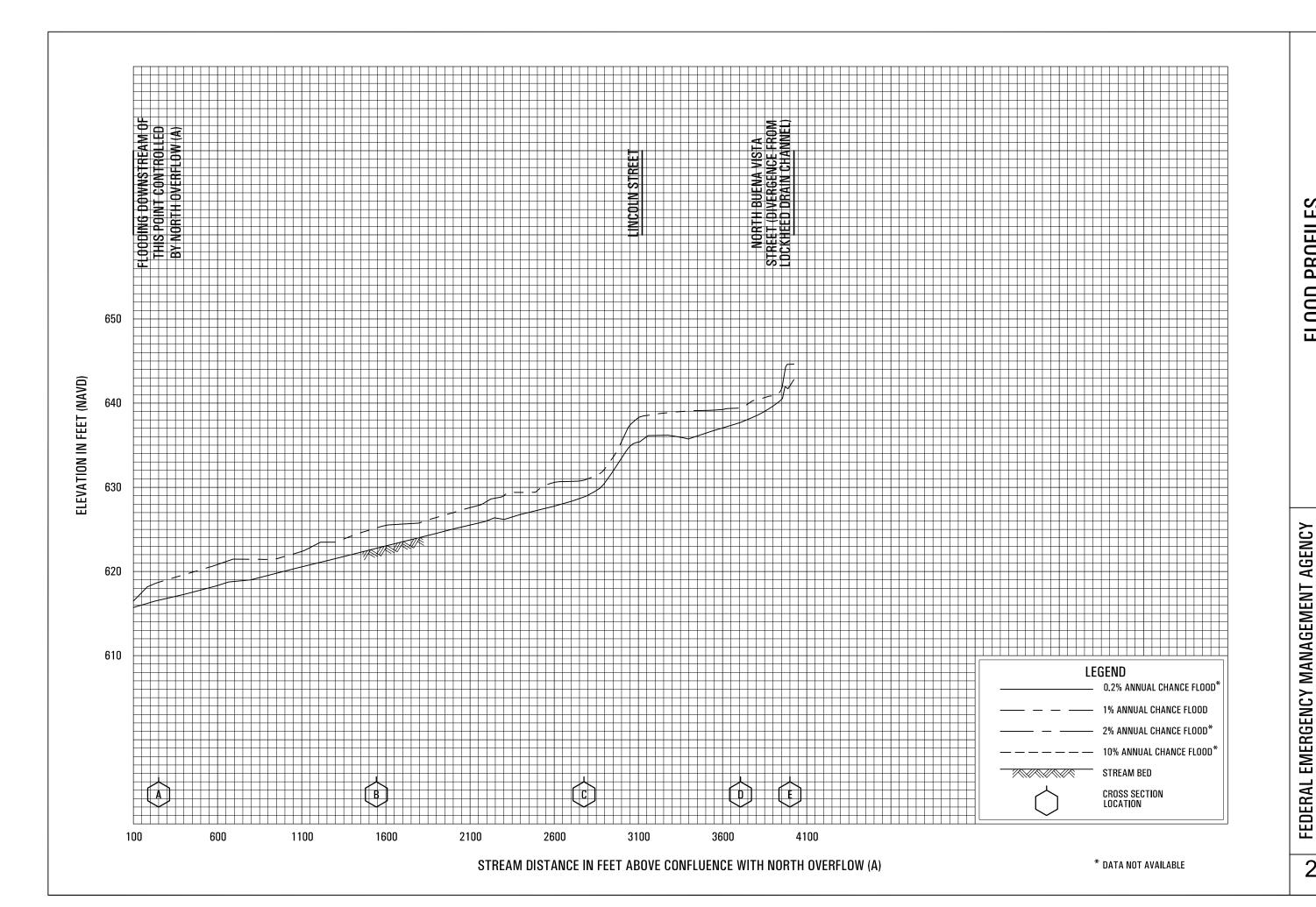




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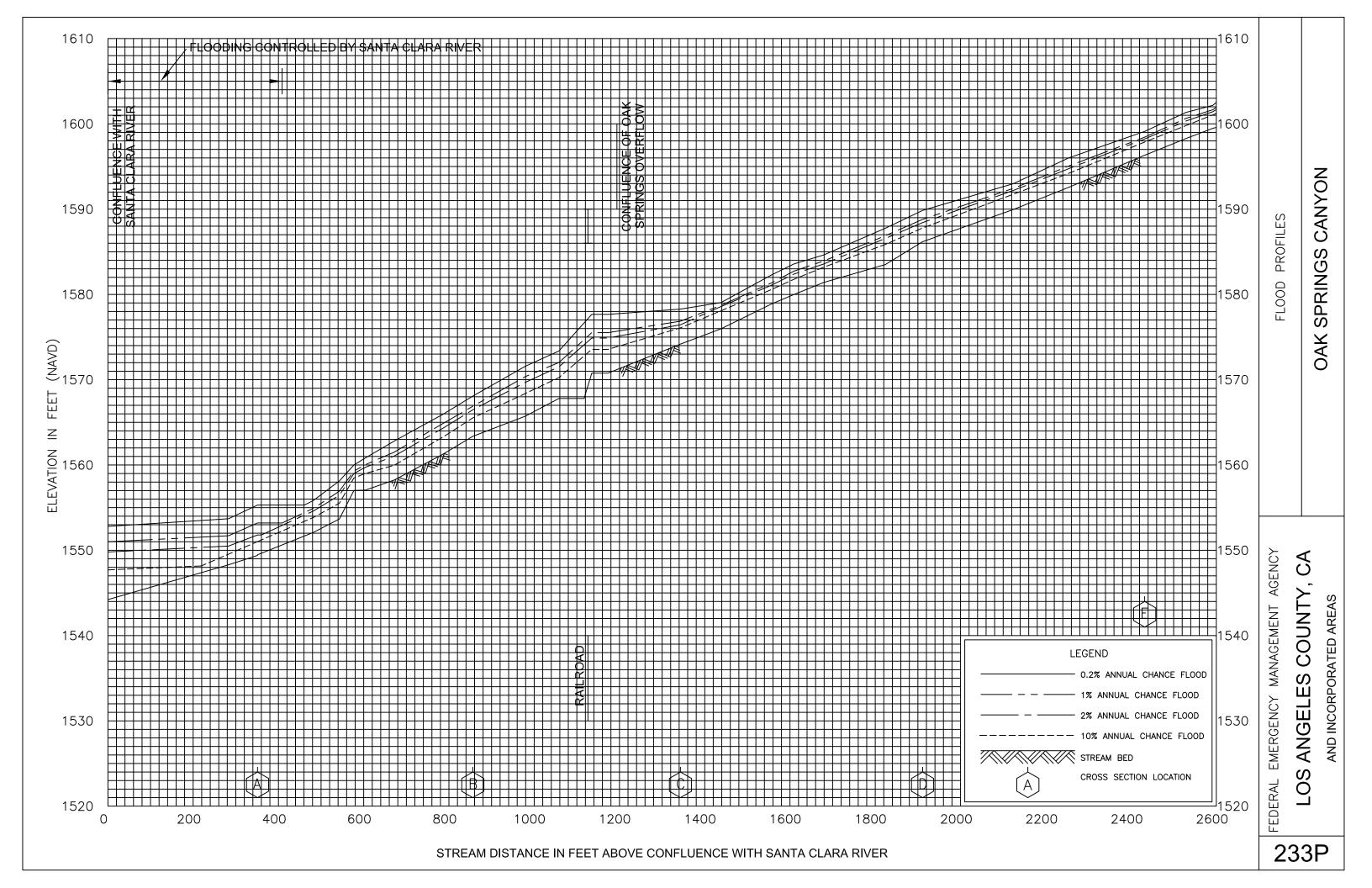
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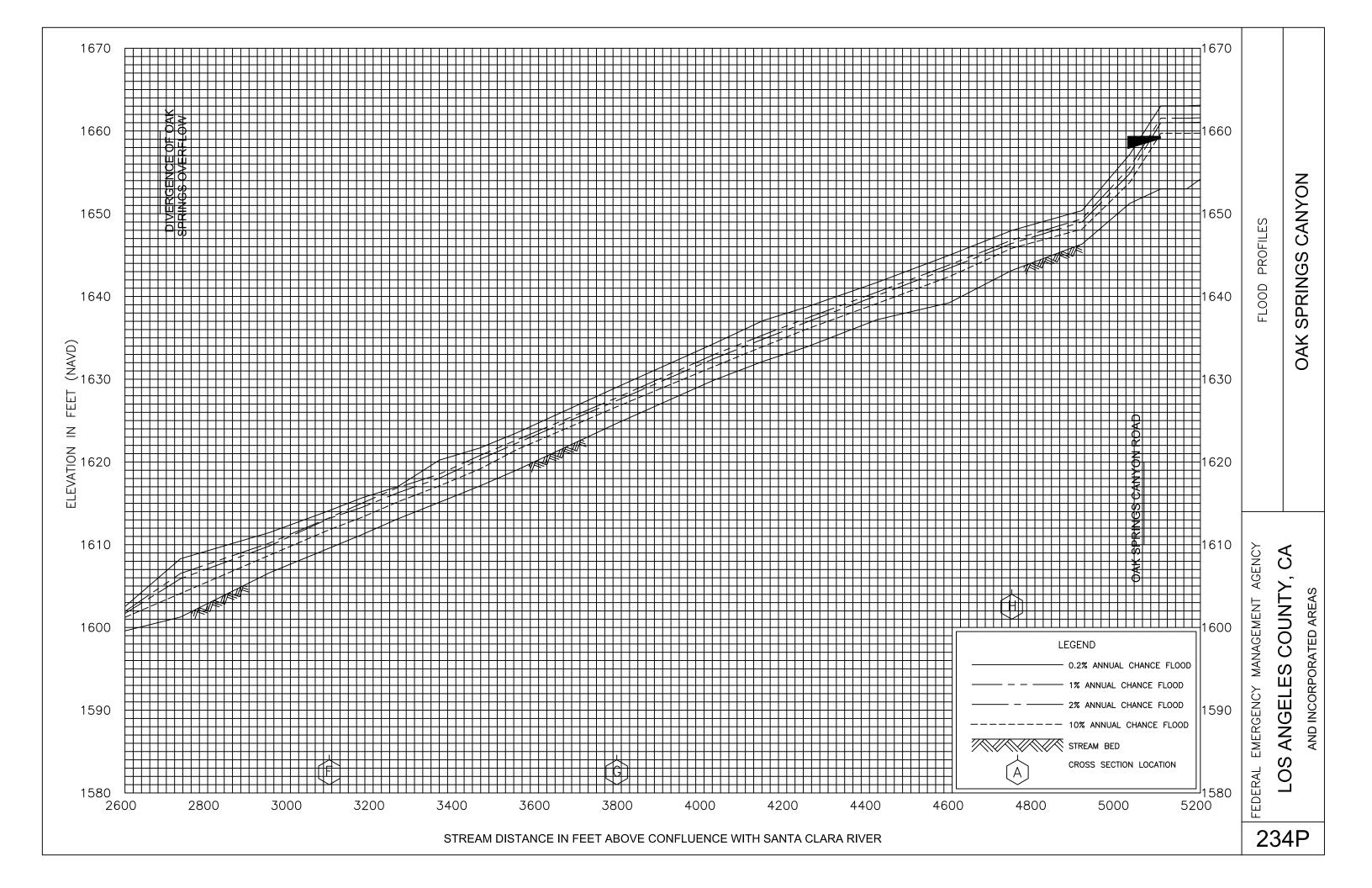
AND INCORPORATED AREAS

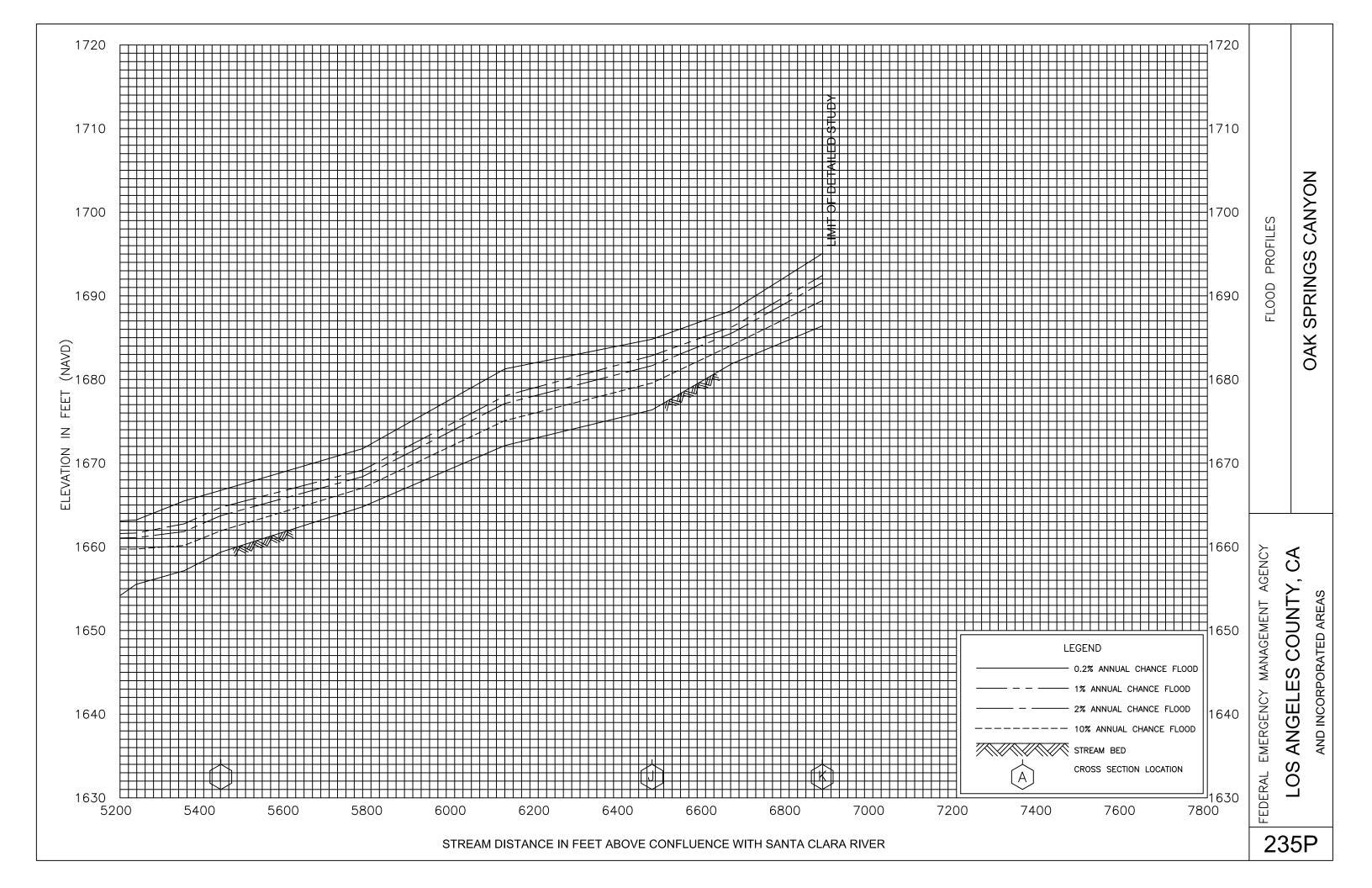


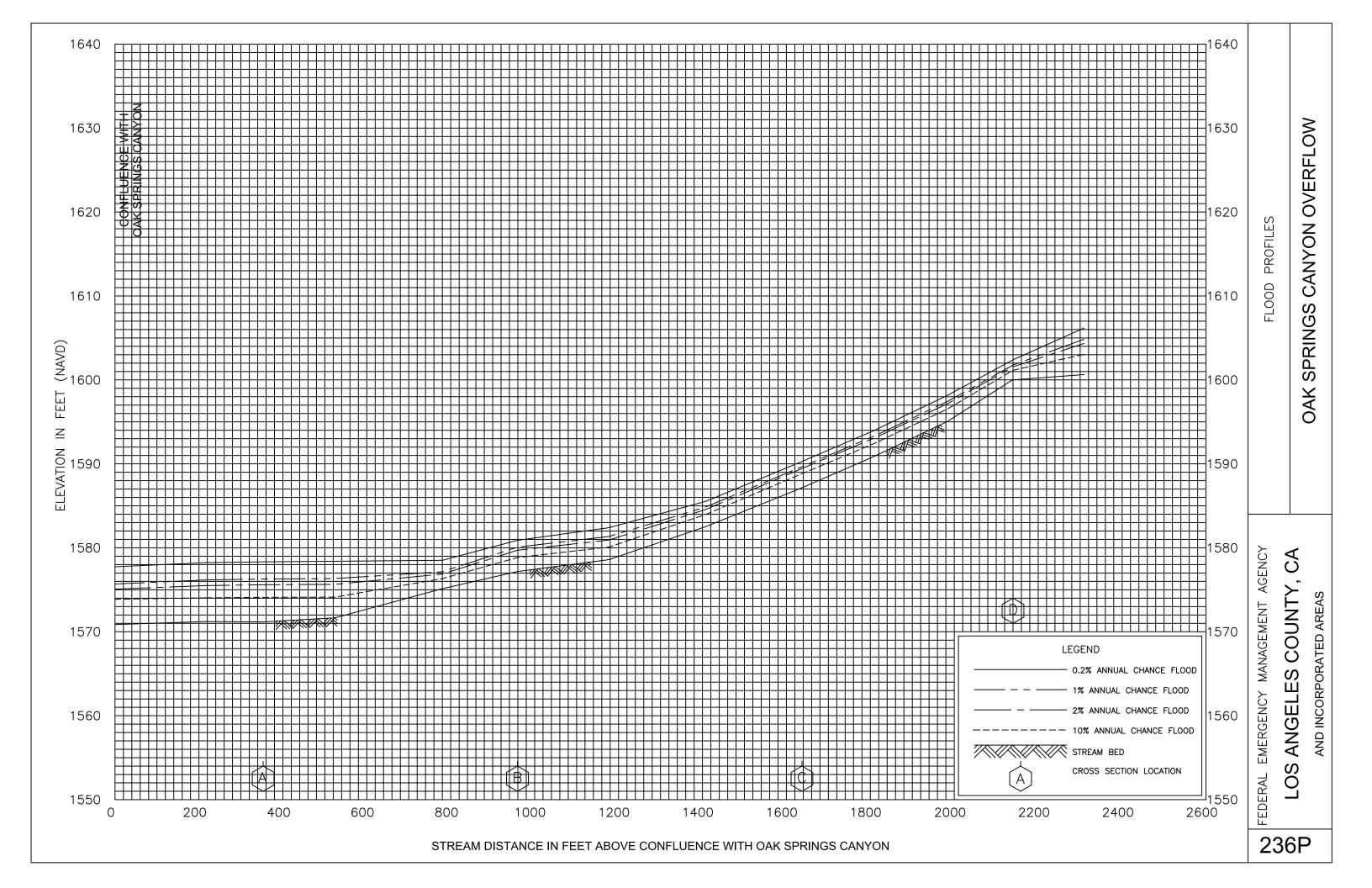
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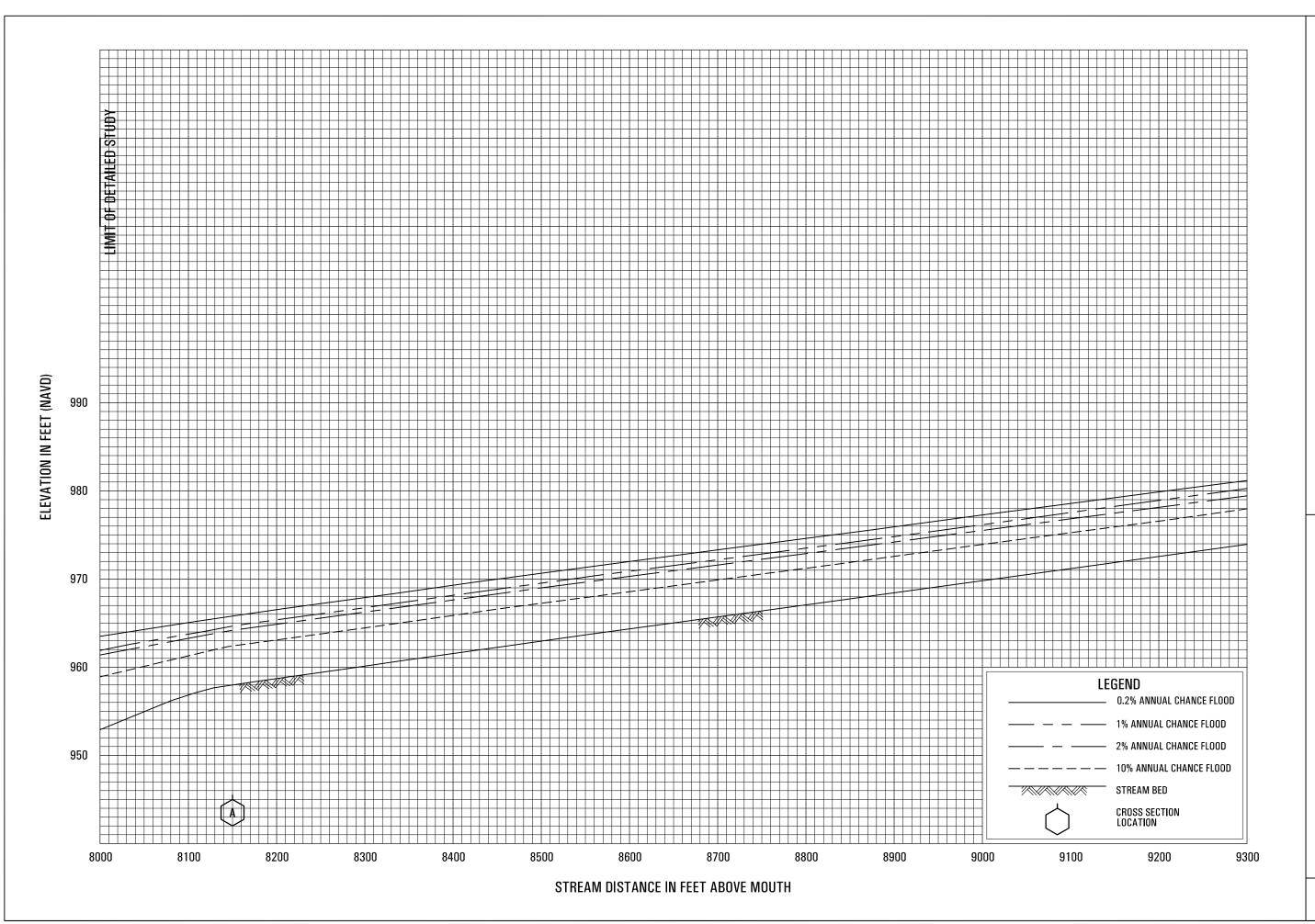
LOS ANGELES COUNTY, CA AND INCORPORATED AREAS





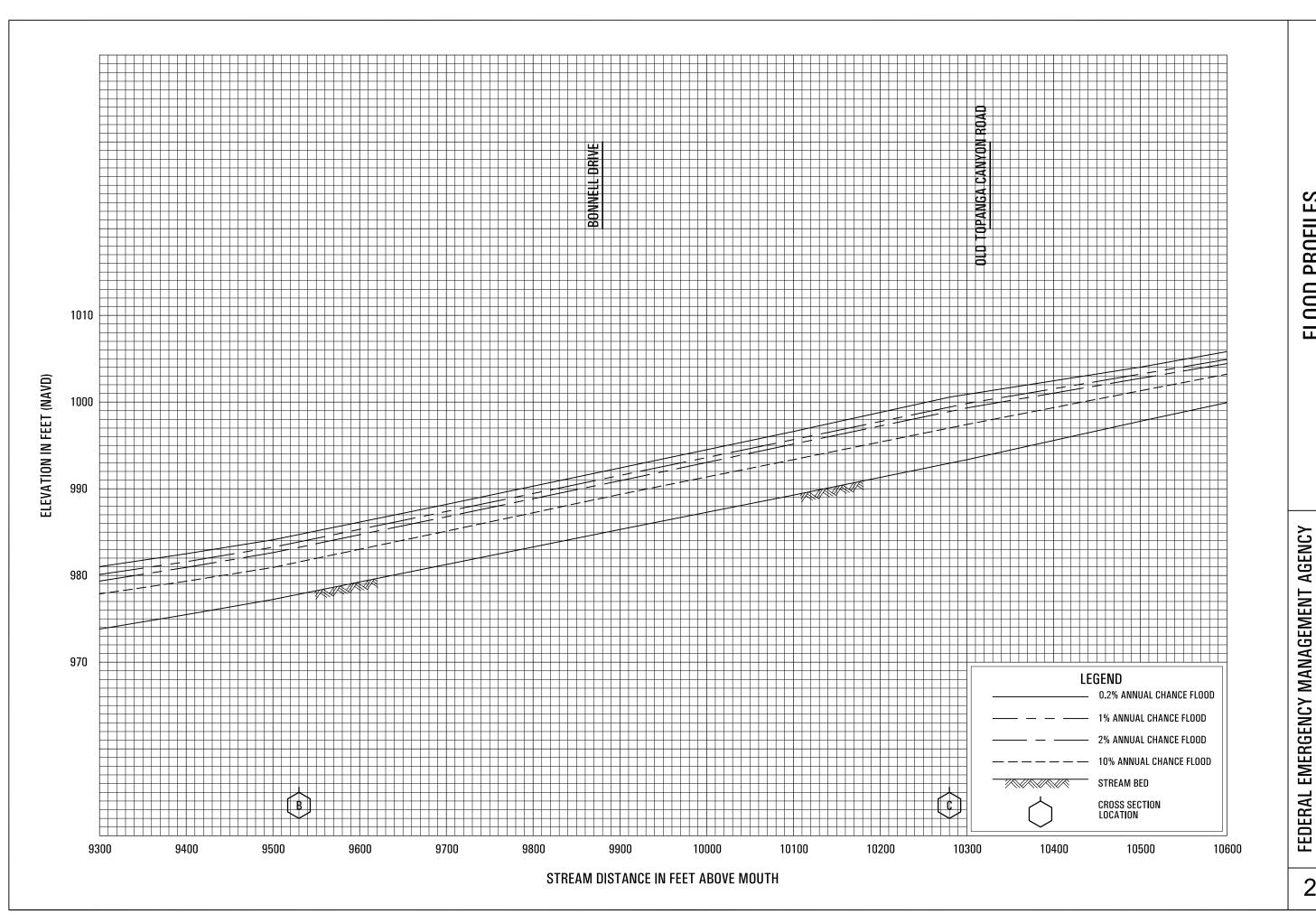






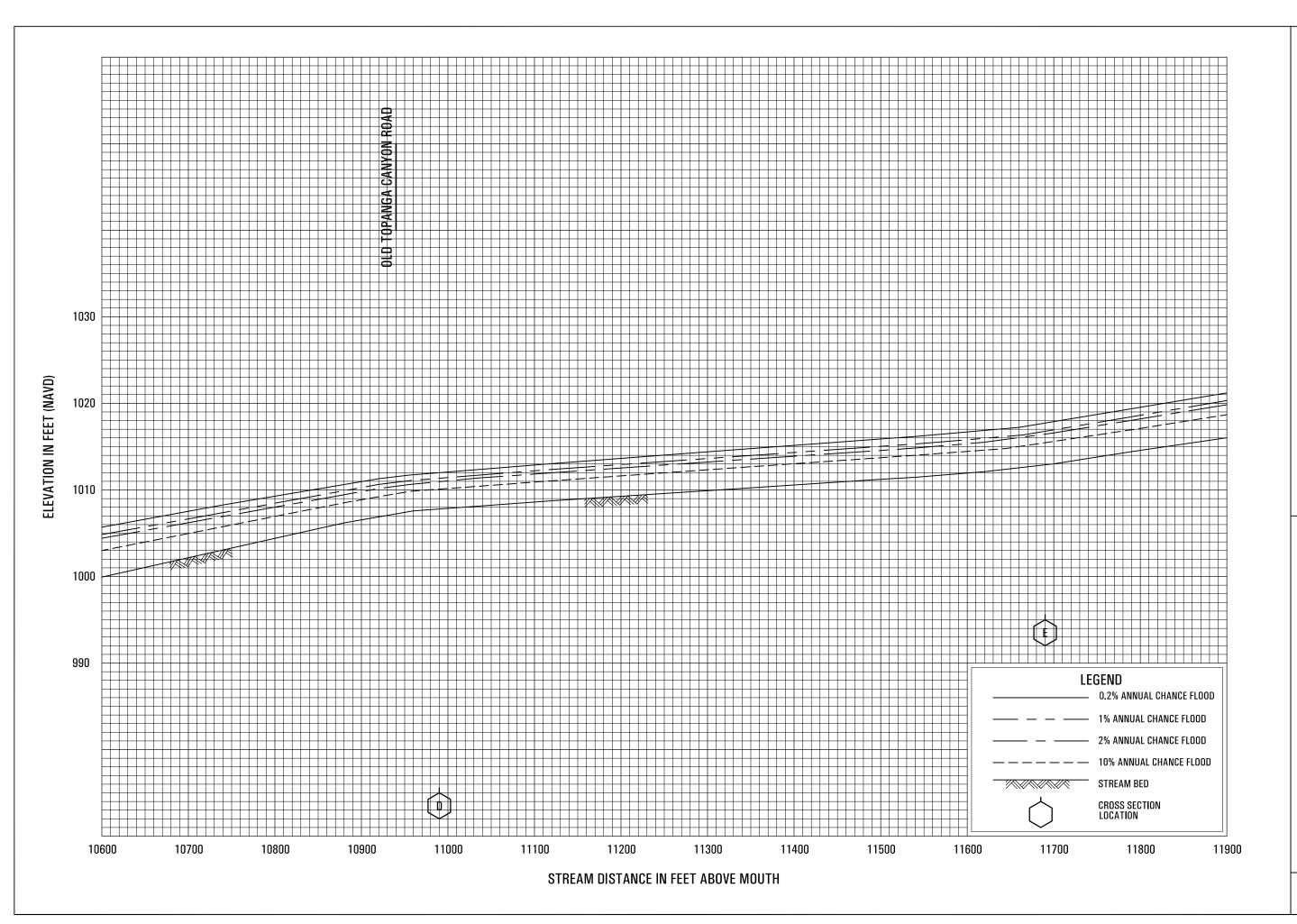
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FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



OLD TOPANGA CANYON

LOS ANGELES COUNTY, CA AND INCORPORATED AREAS

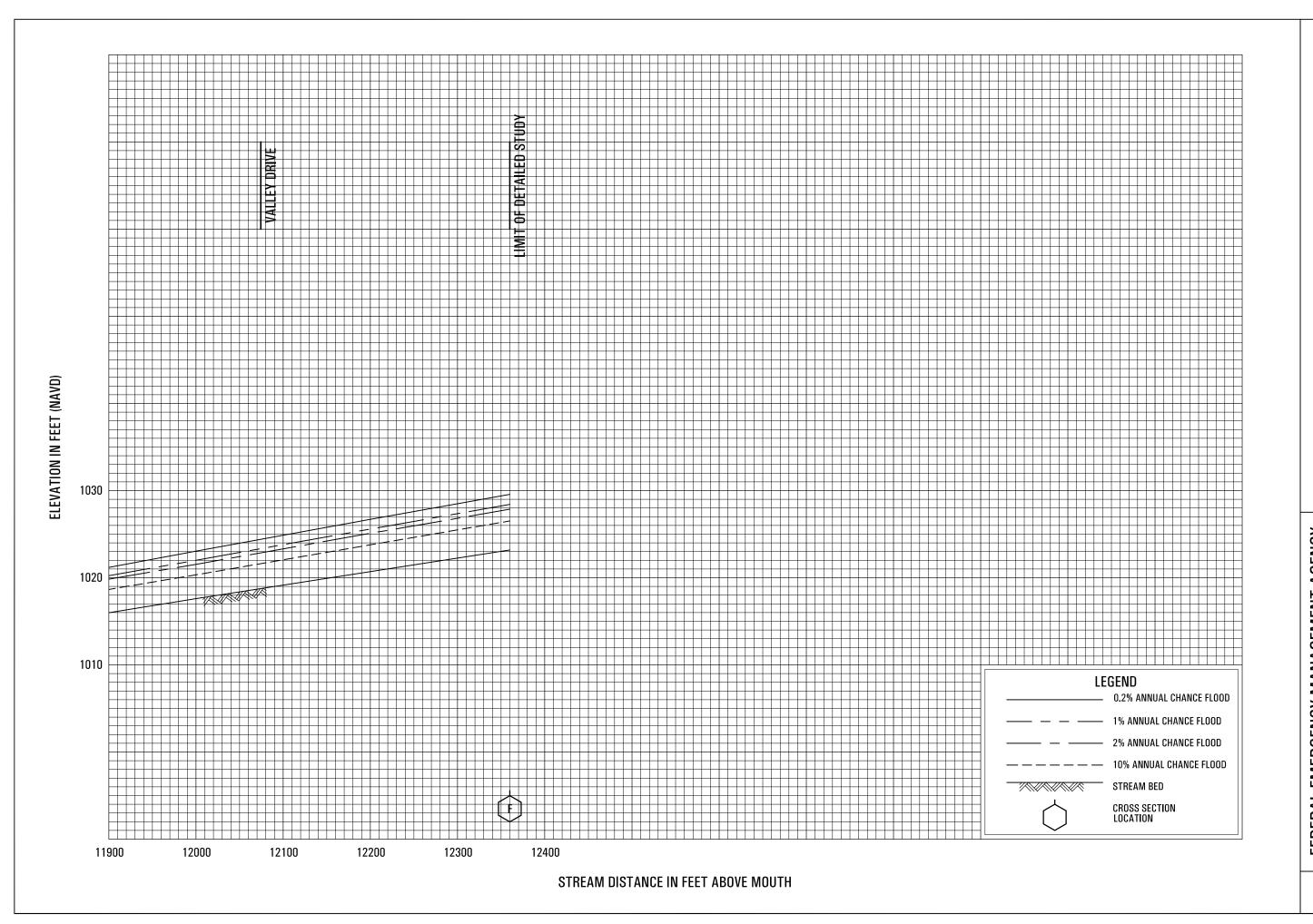


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FEDERAL EMERGENCY MANAGEMENT AGENCY

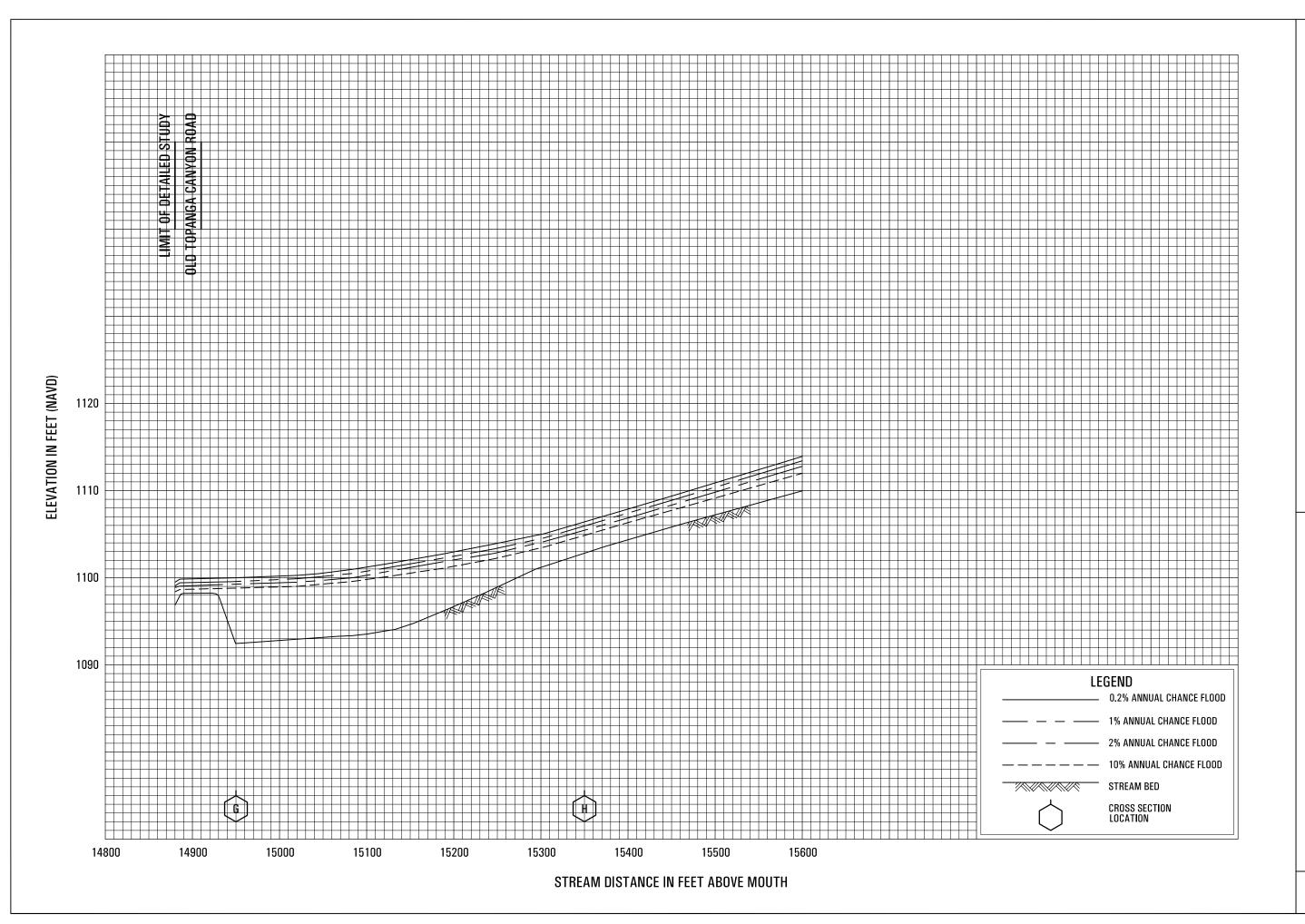
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AND INCORPORATED AREAS



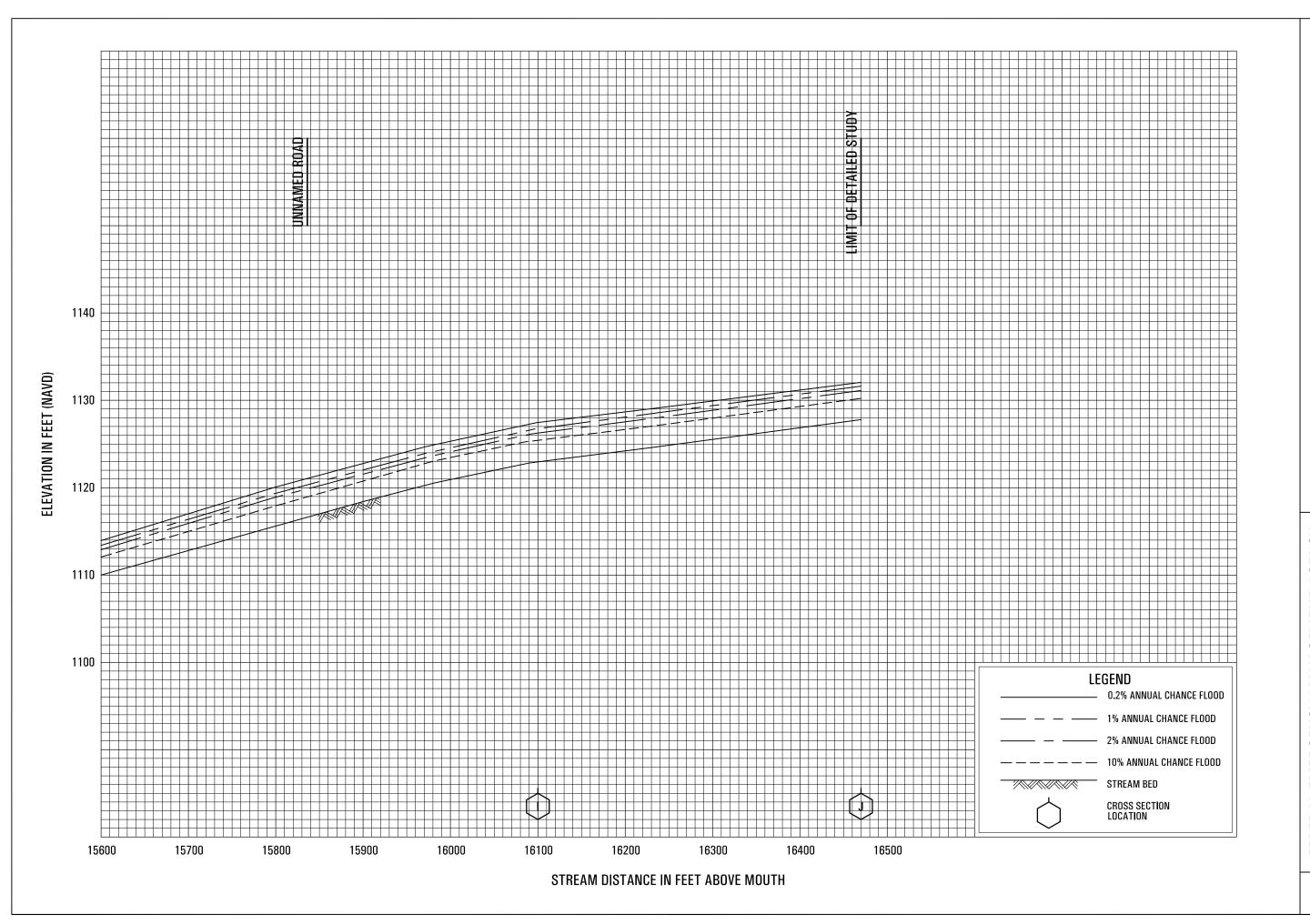
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FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



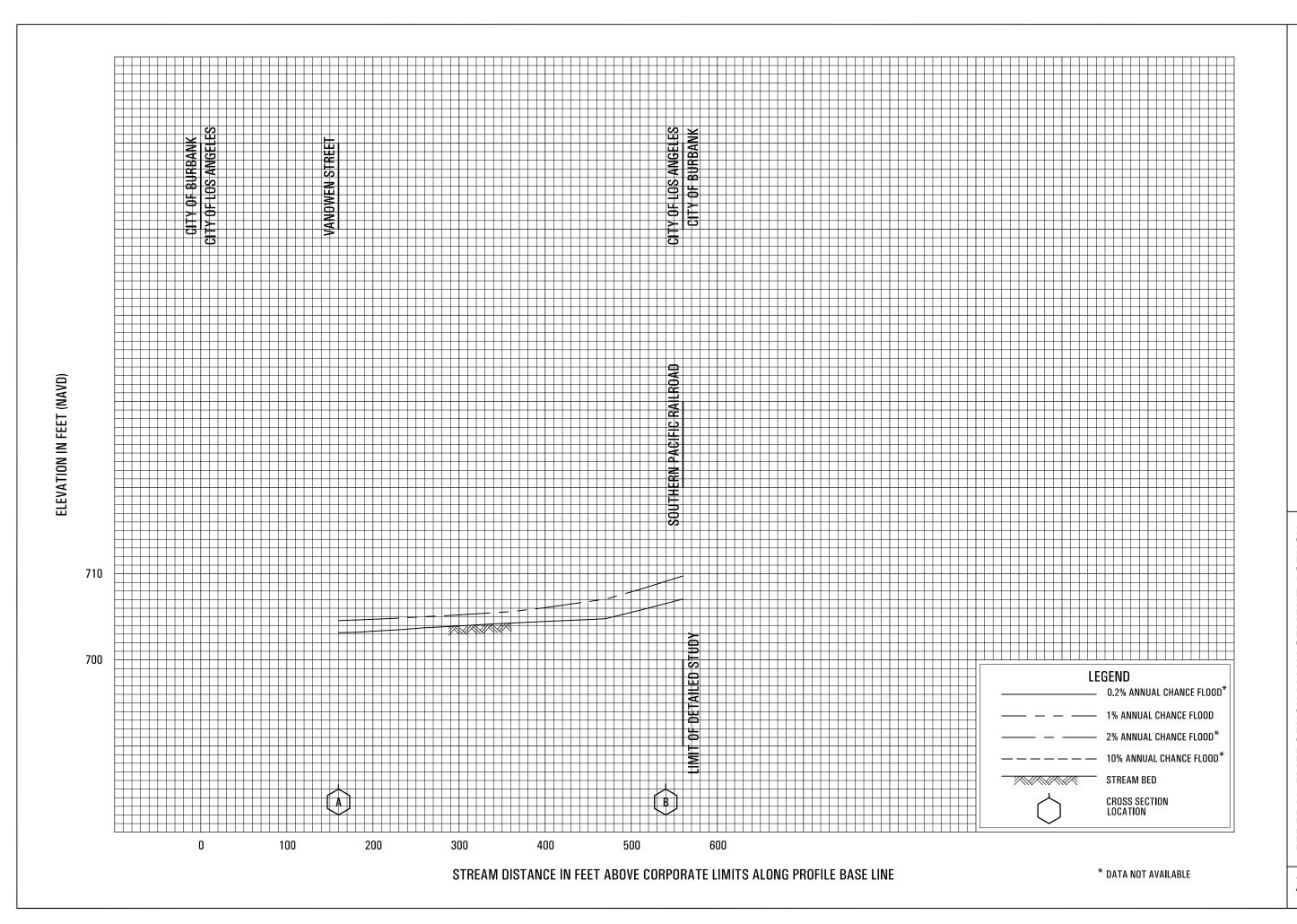
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FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



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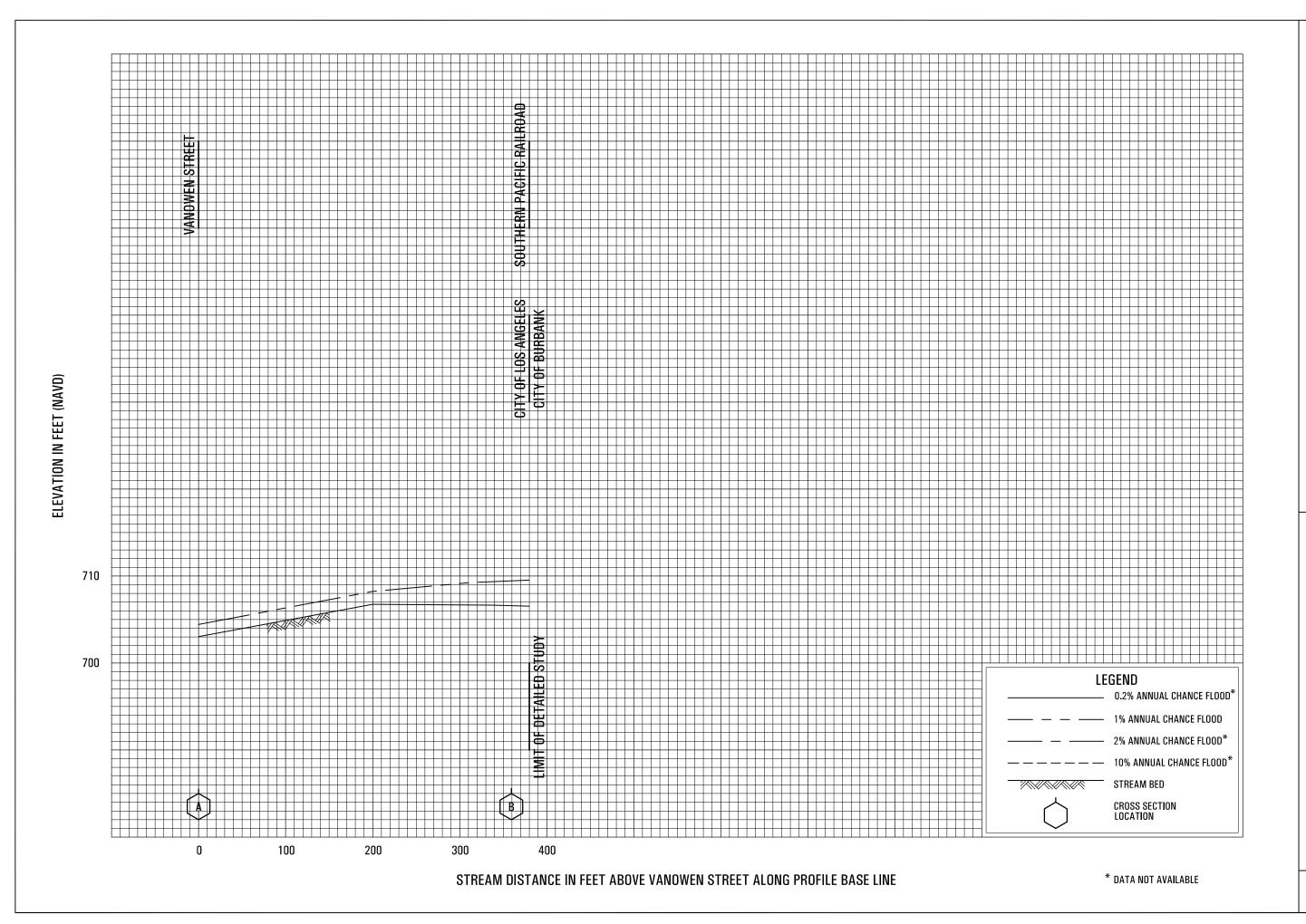
FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



OVERFLOW AREA OF LOCKHEED DRAIN CHANNEL

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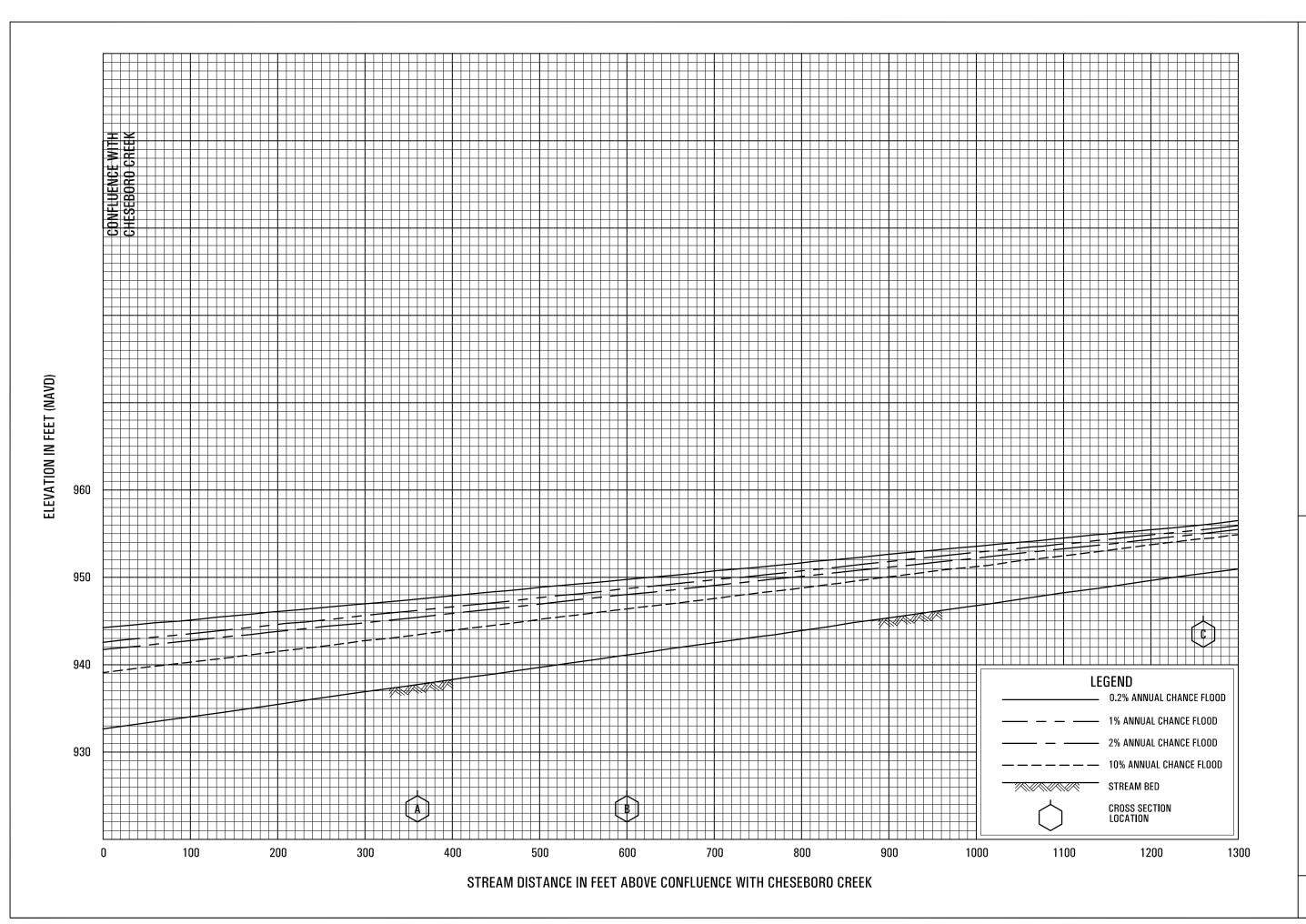
AND INCORPORATED AREAS



OVERFLOW AREA OF LOCKHEED STORM DRAIN

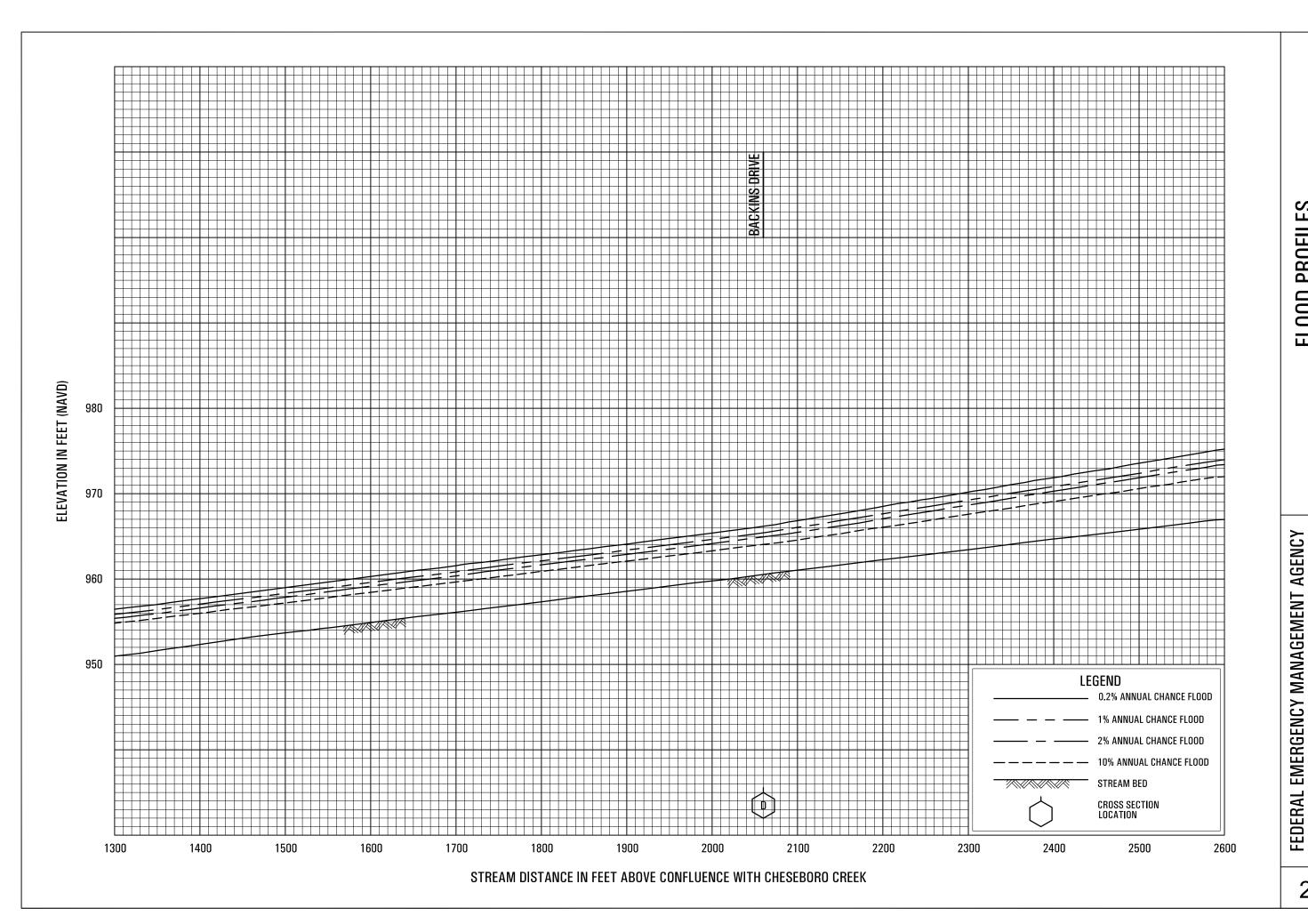
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AND INCORPORATED AREAS



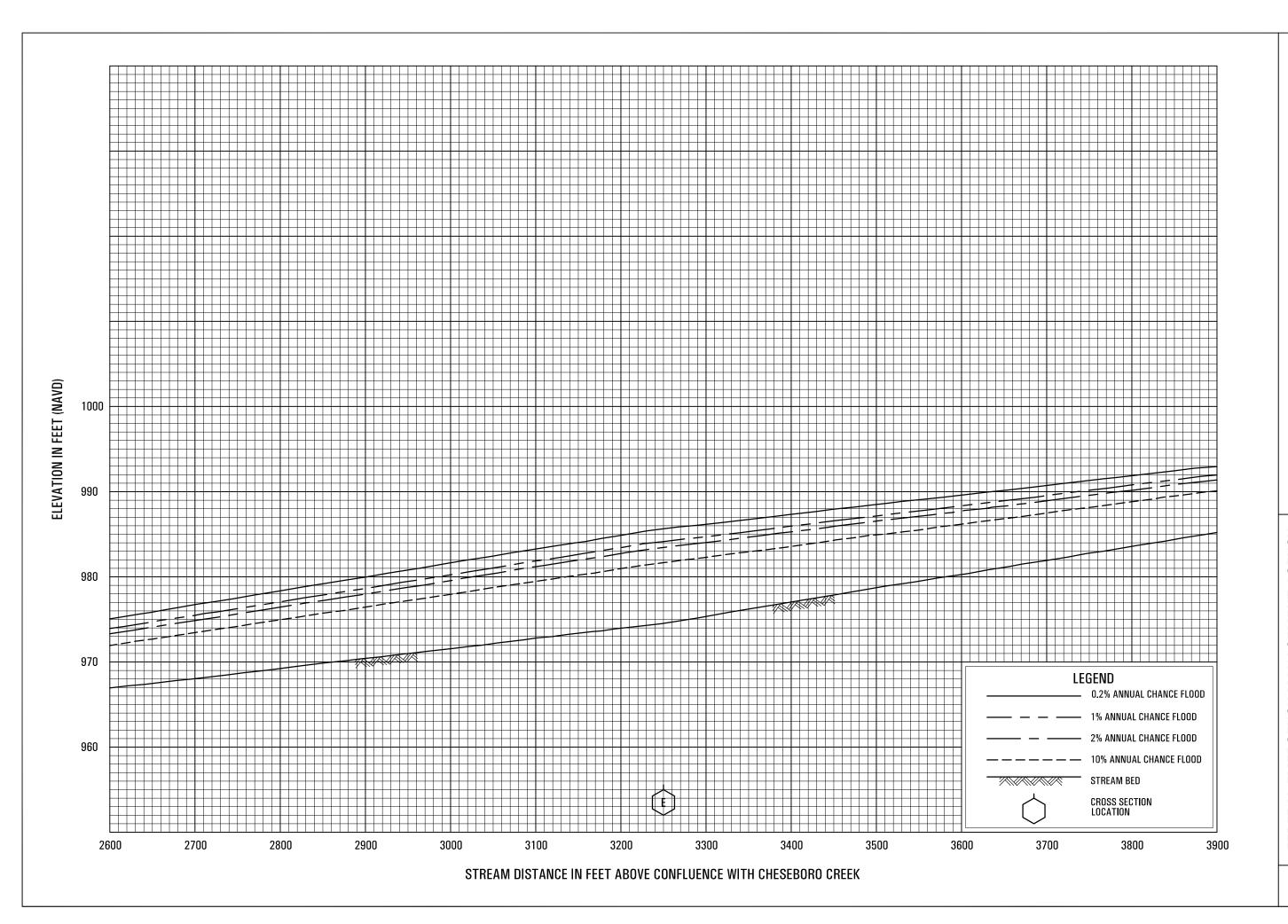
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FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



PALO COMANDO CREEK

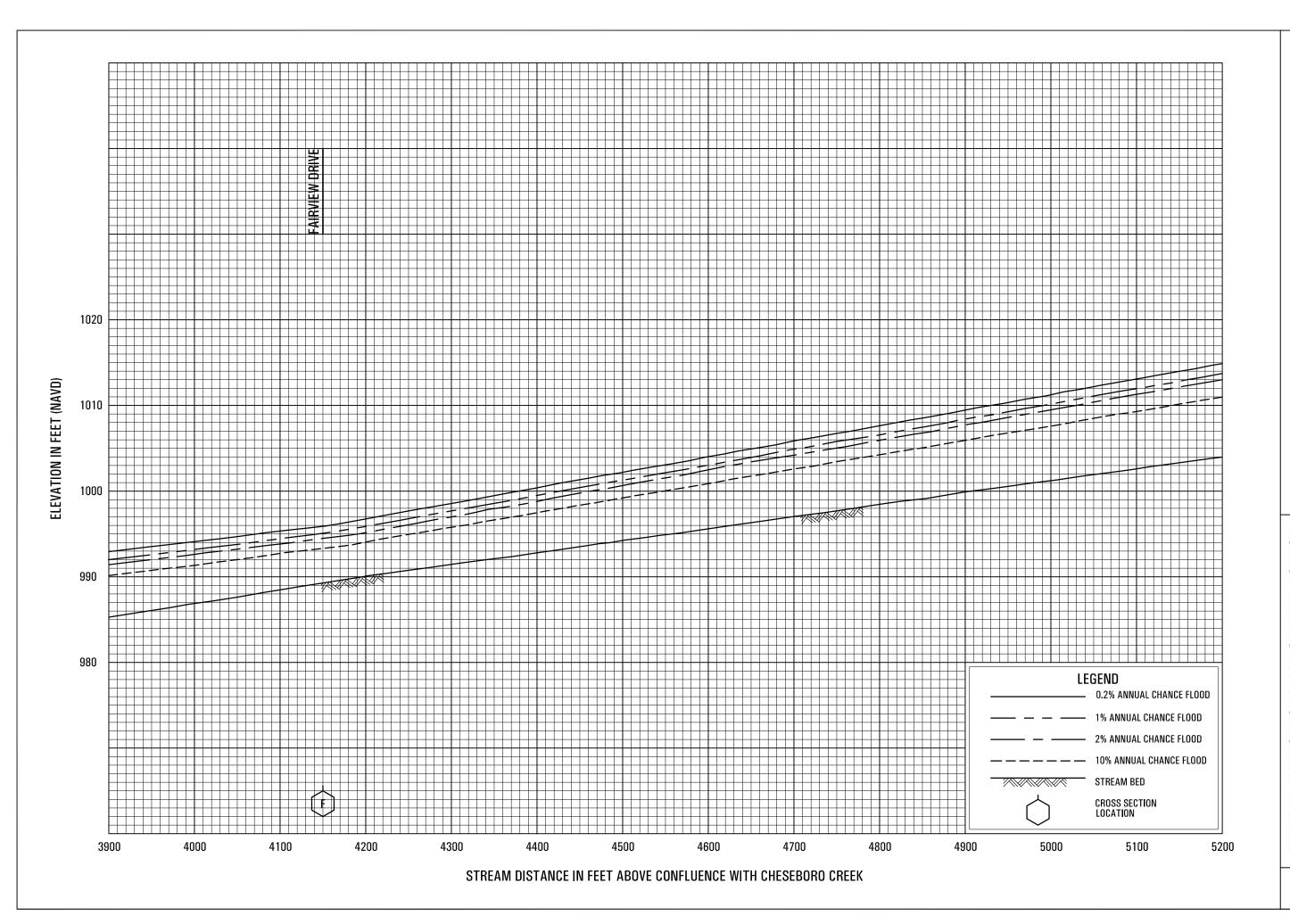
LOS ANGELES COUNTY, CA AND INCORPORATED AREAS



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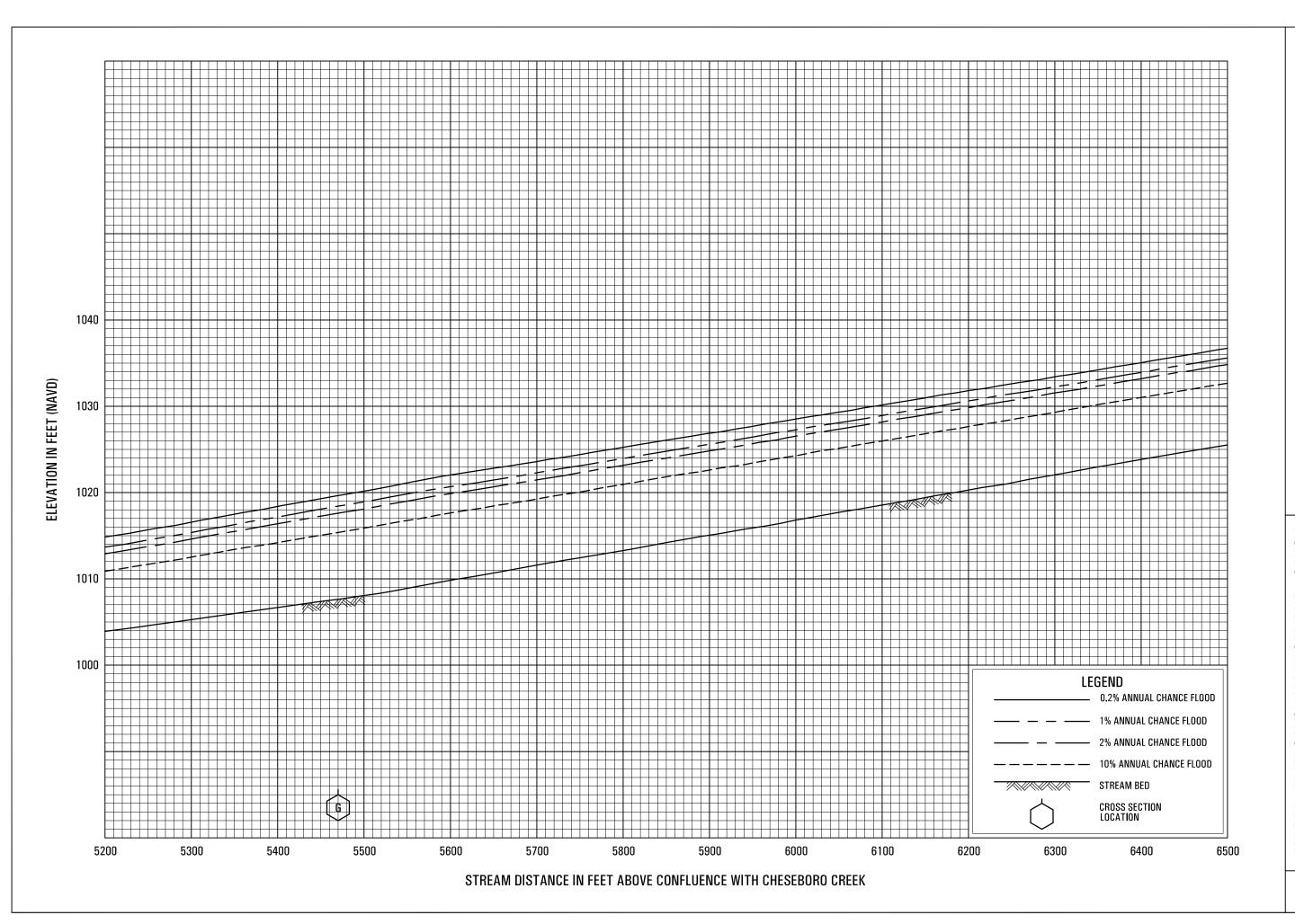
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LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



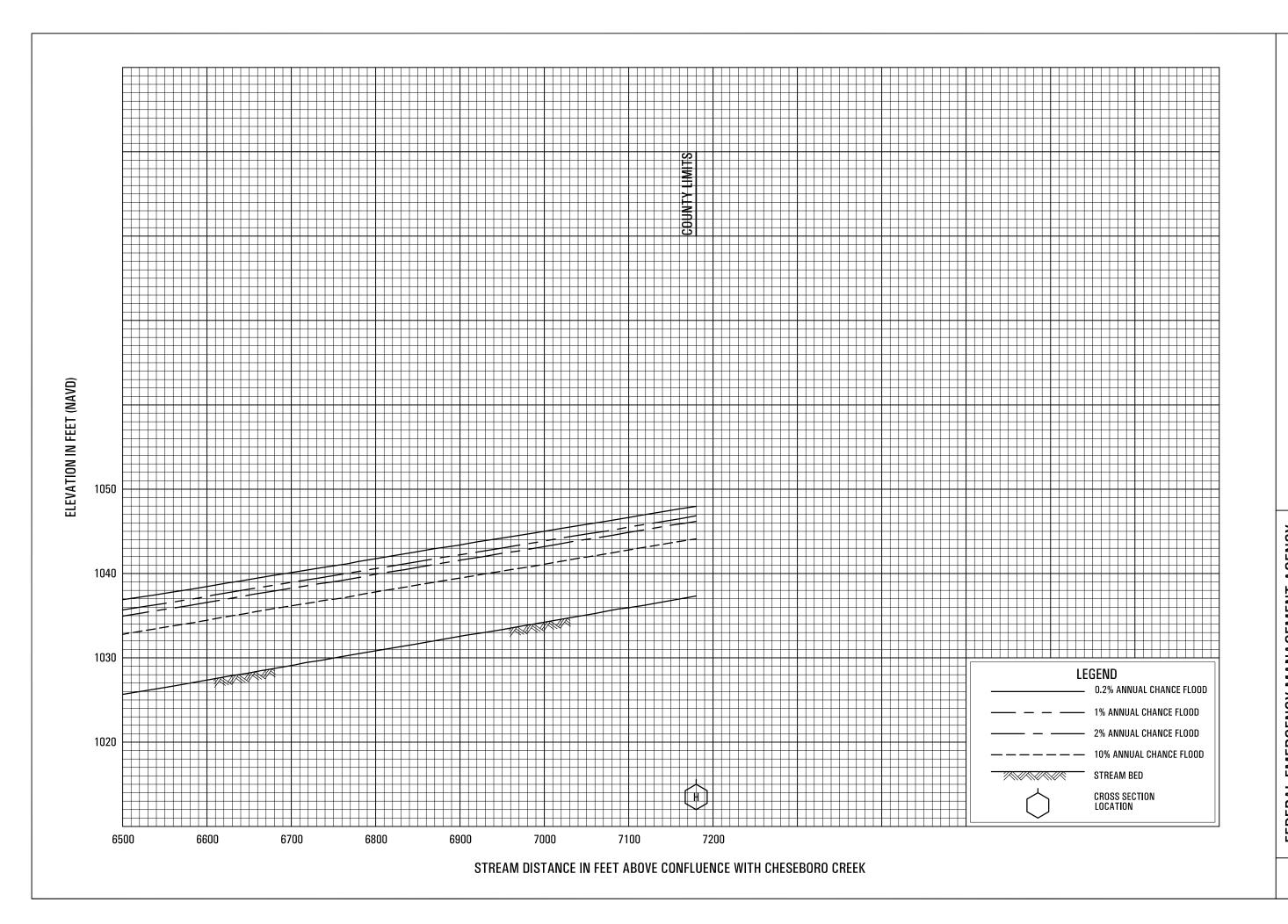
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LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



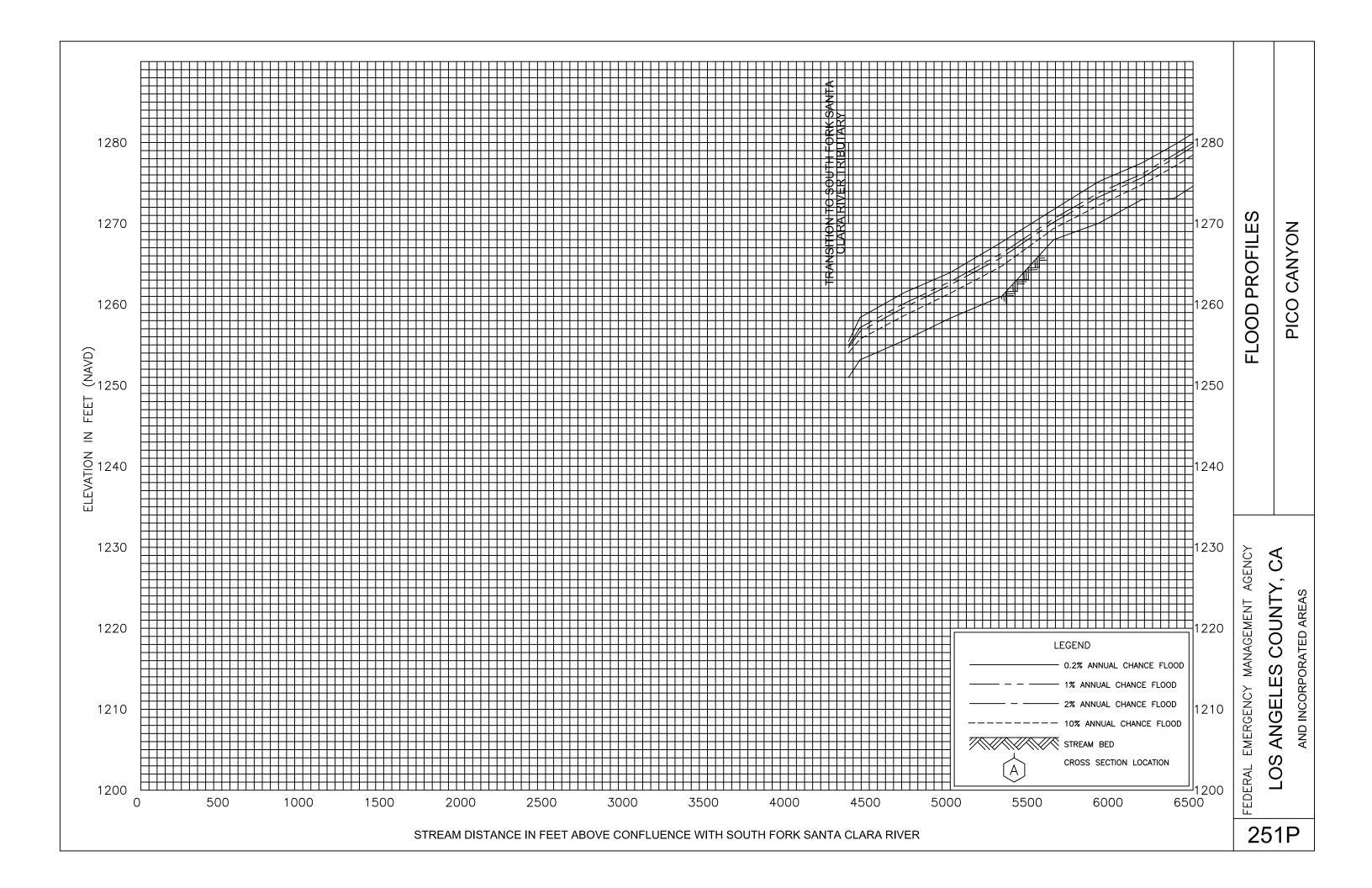
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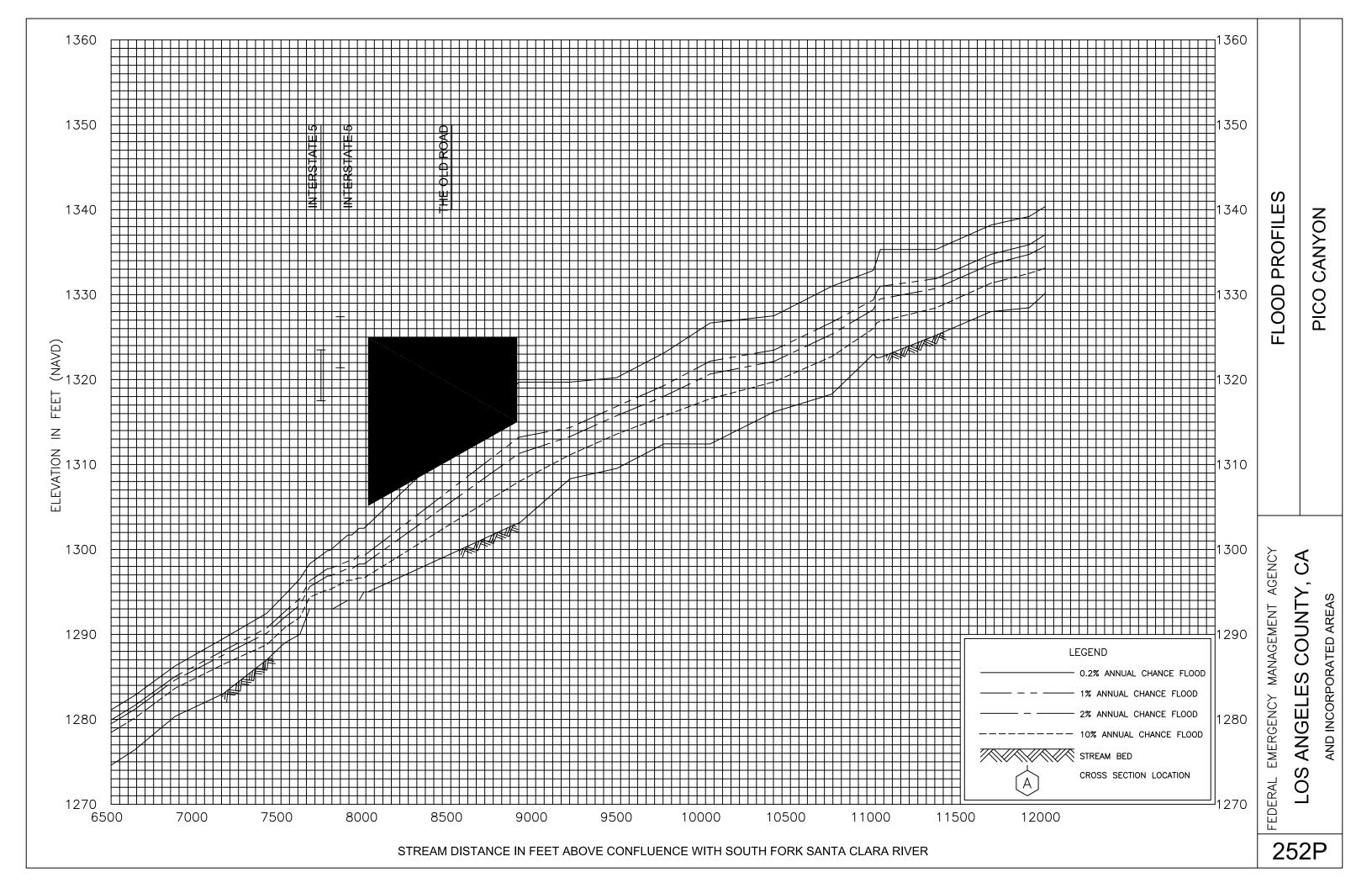
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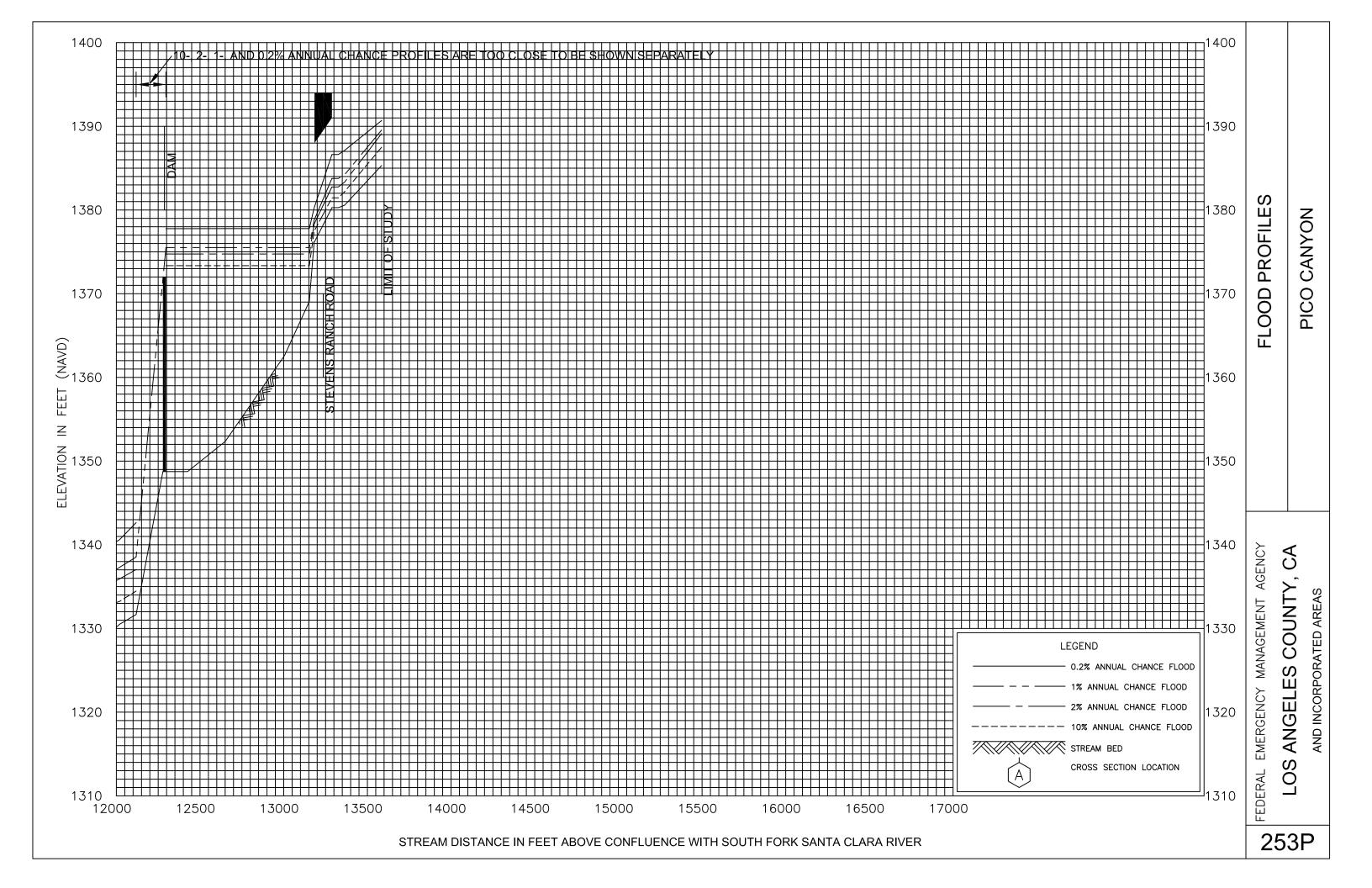


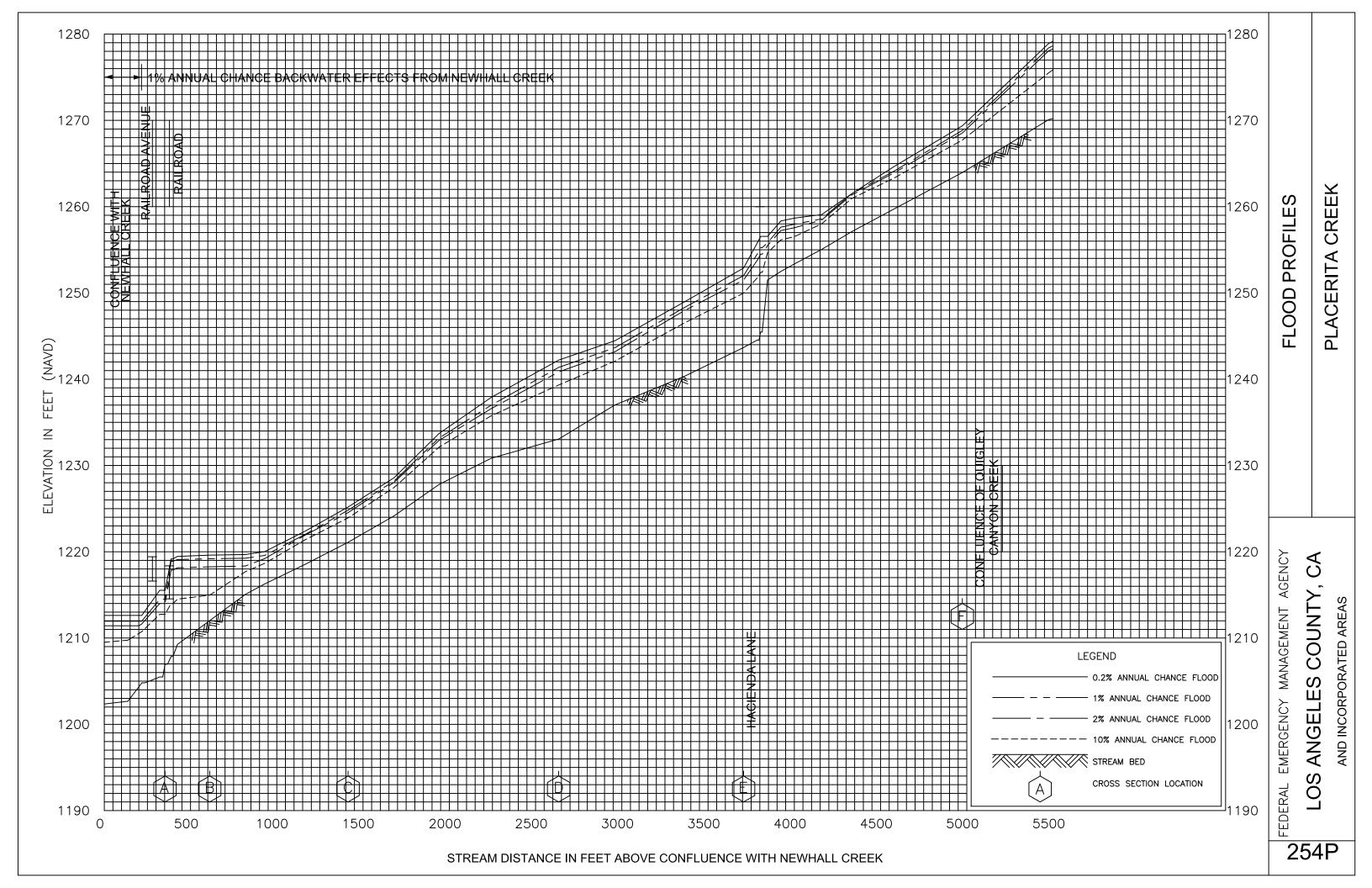
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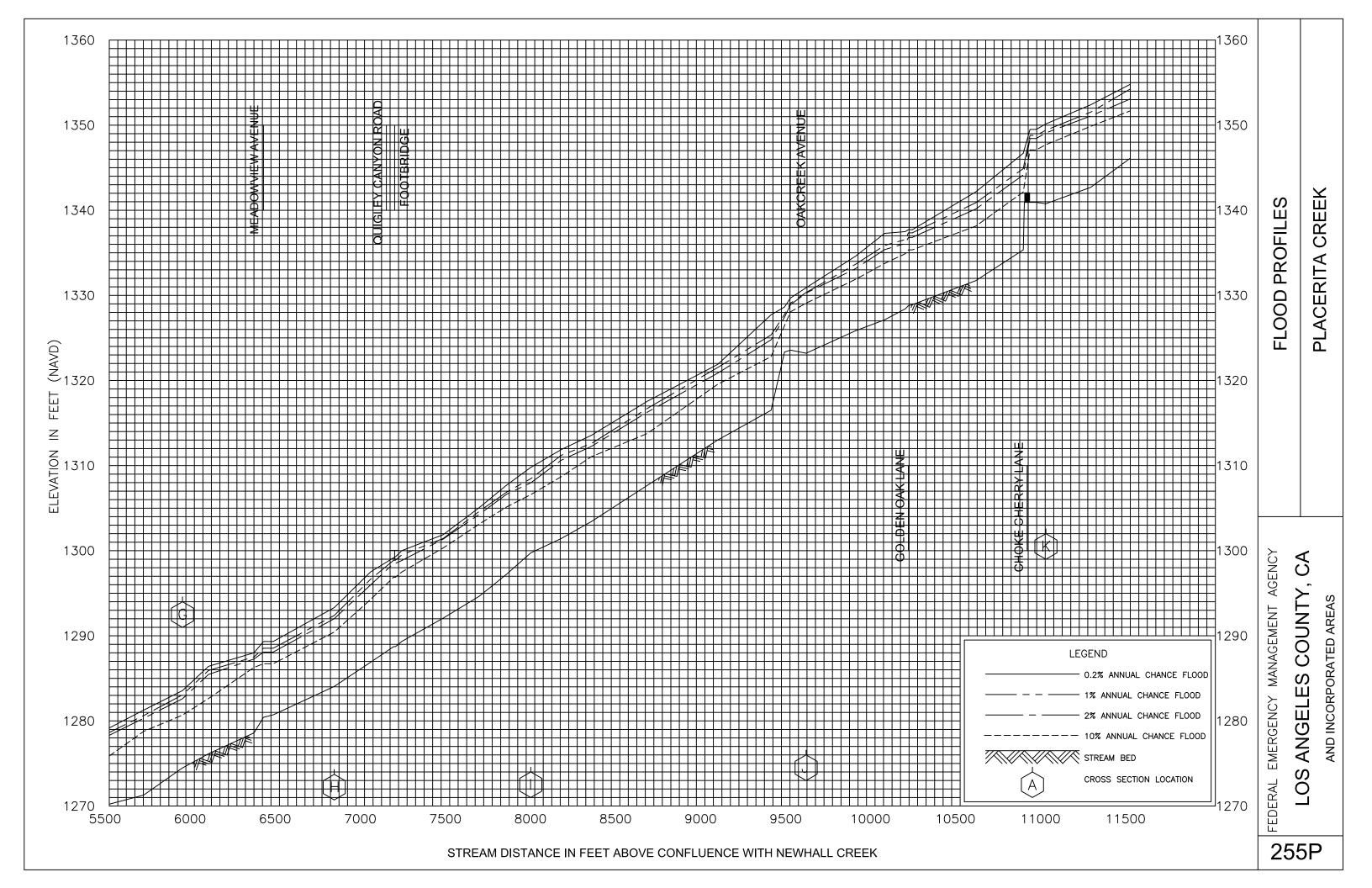
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LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS

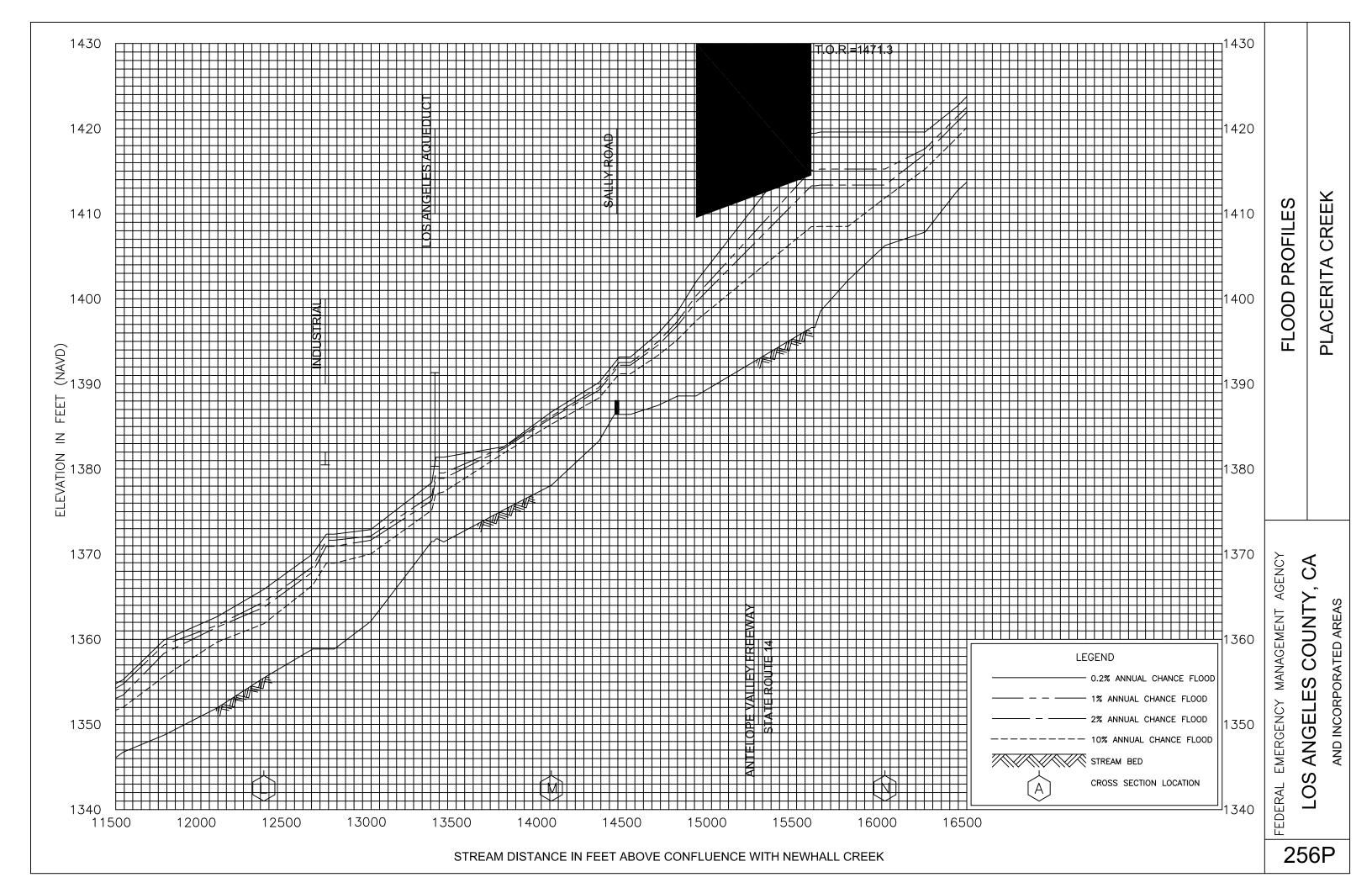


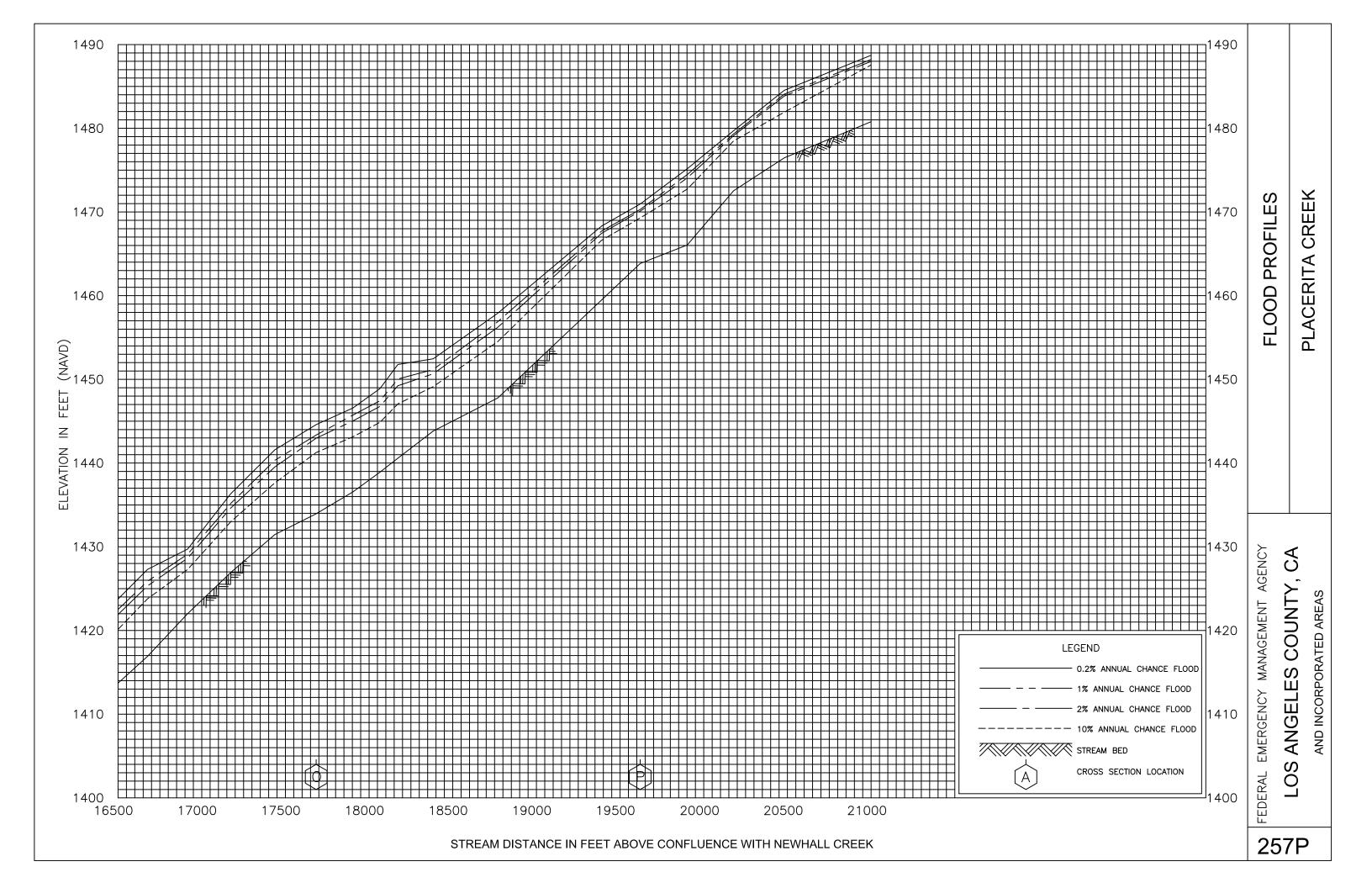


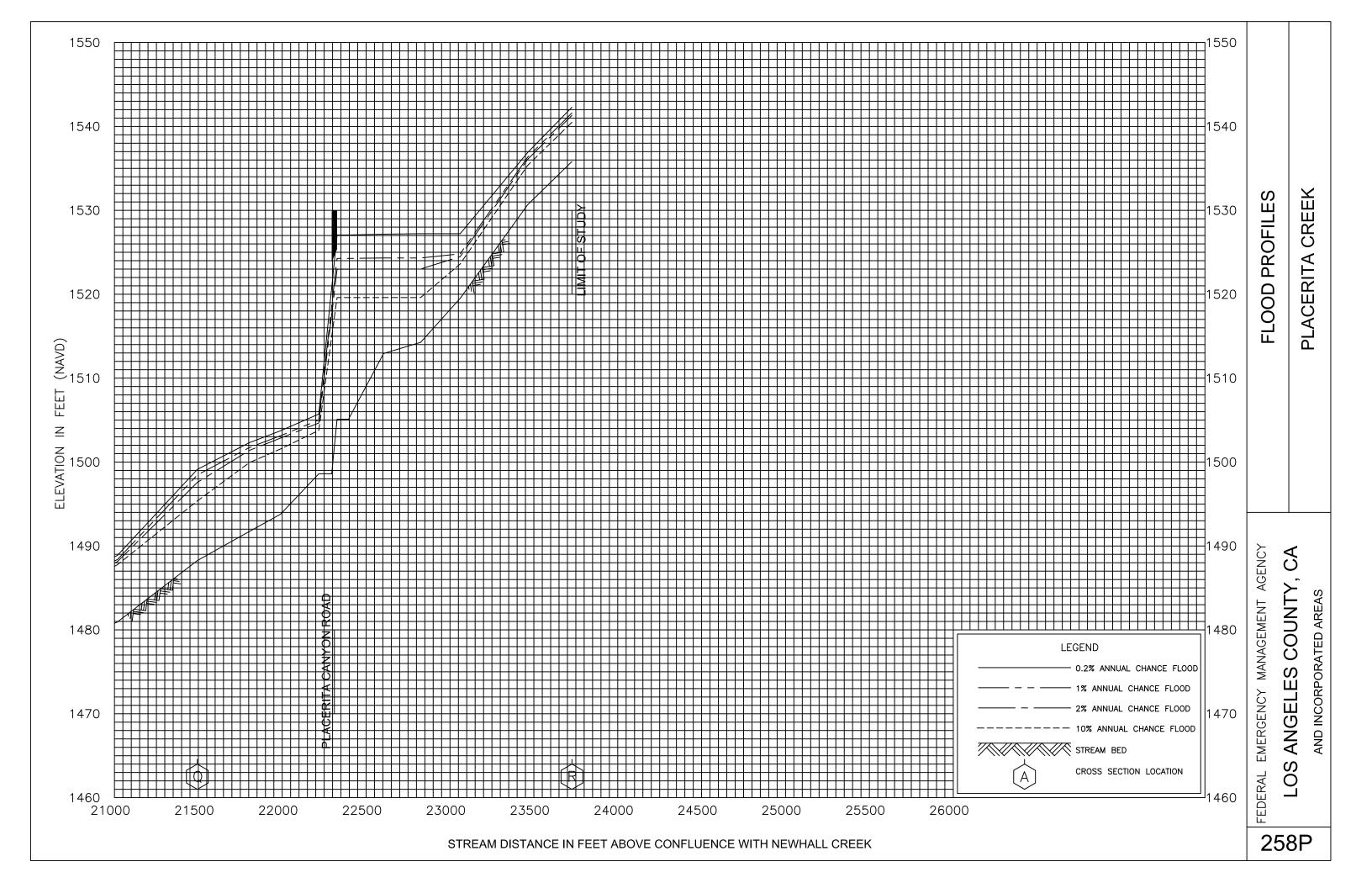


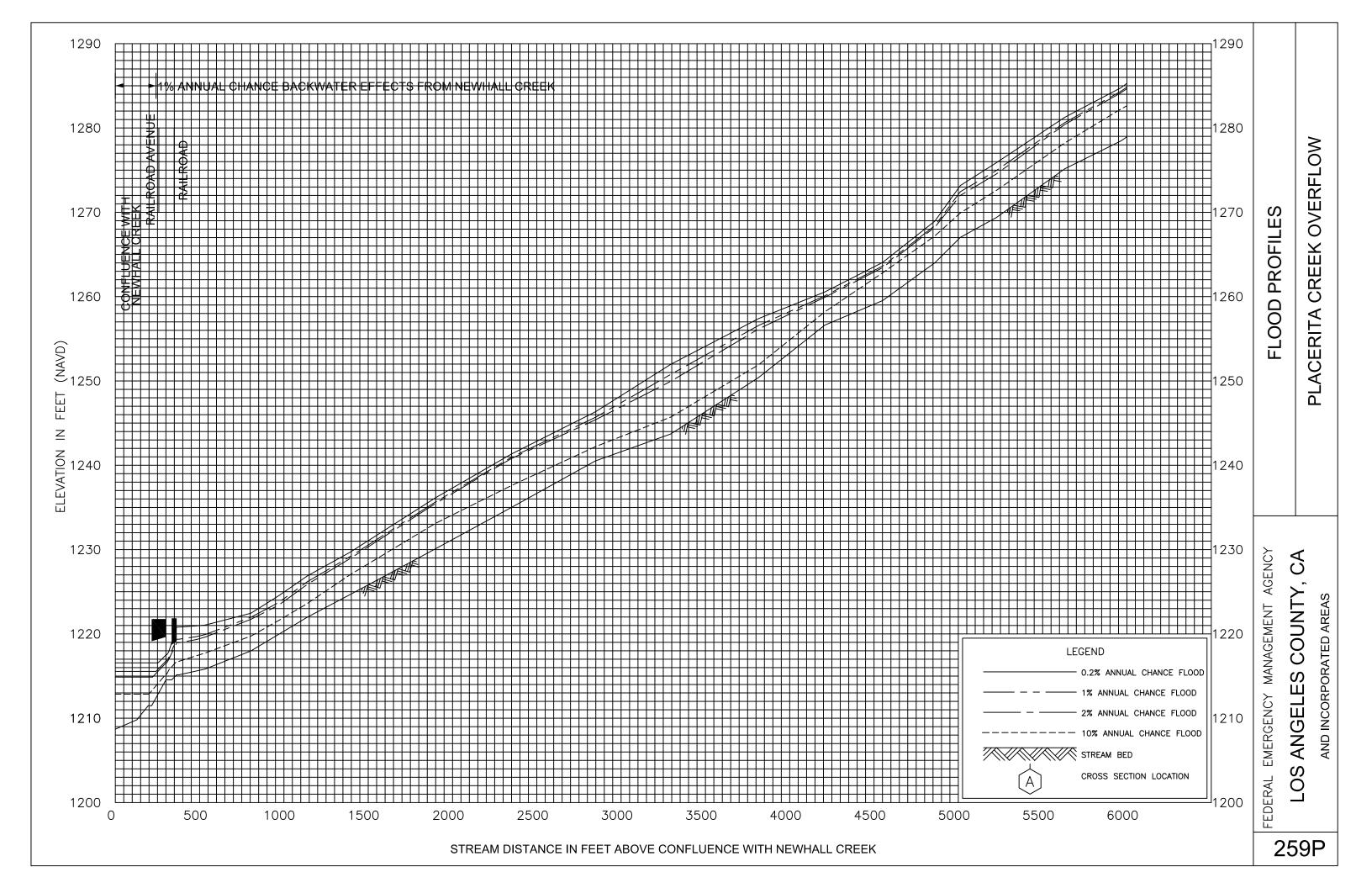


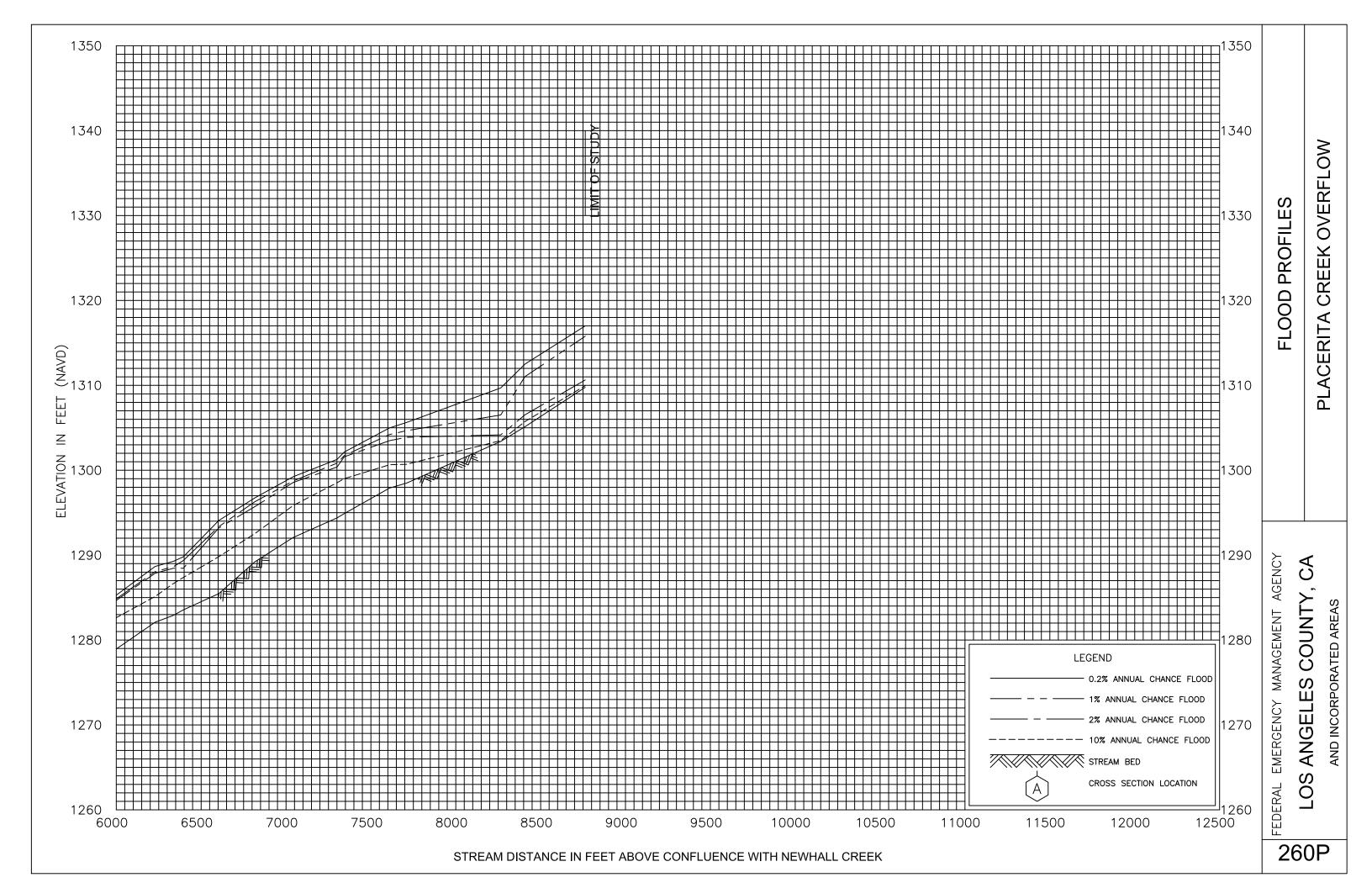


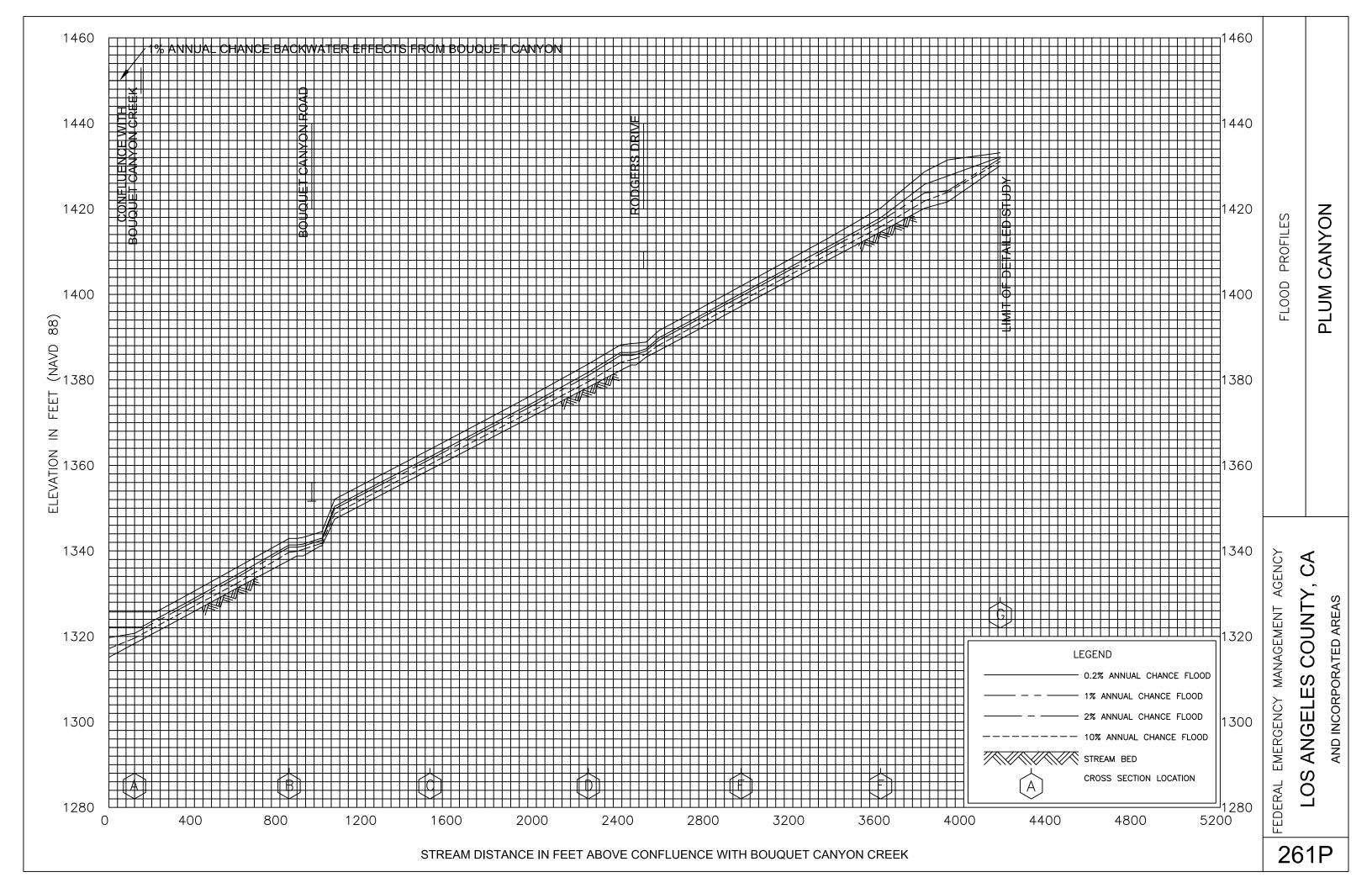


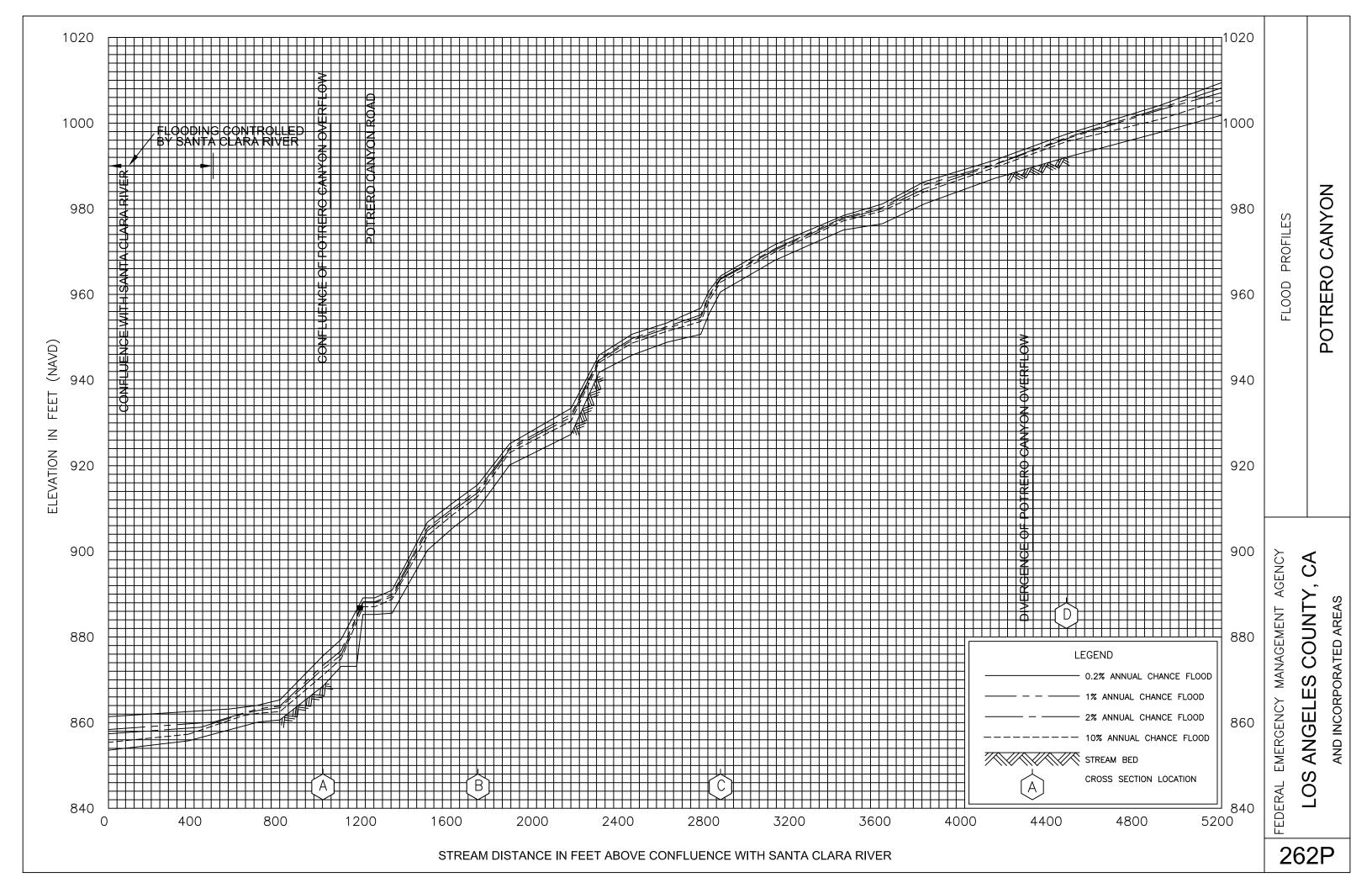


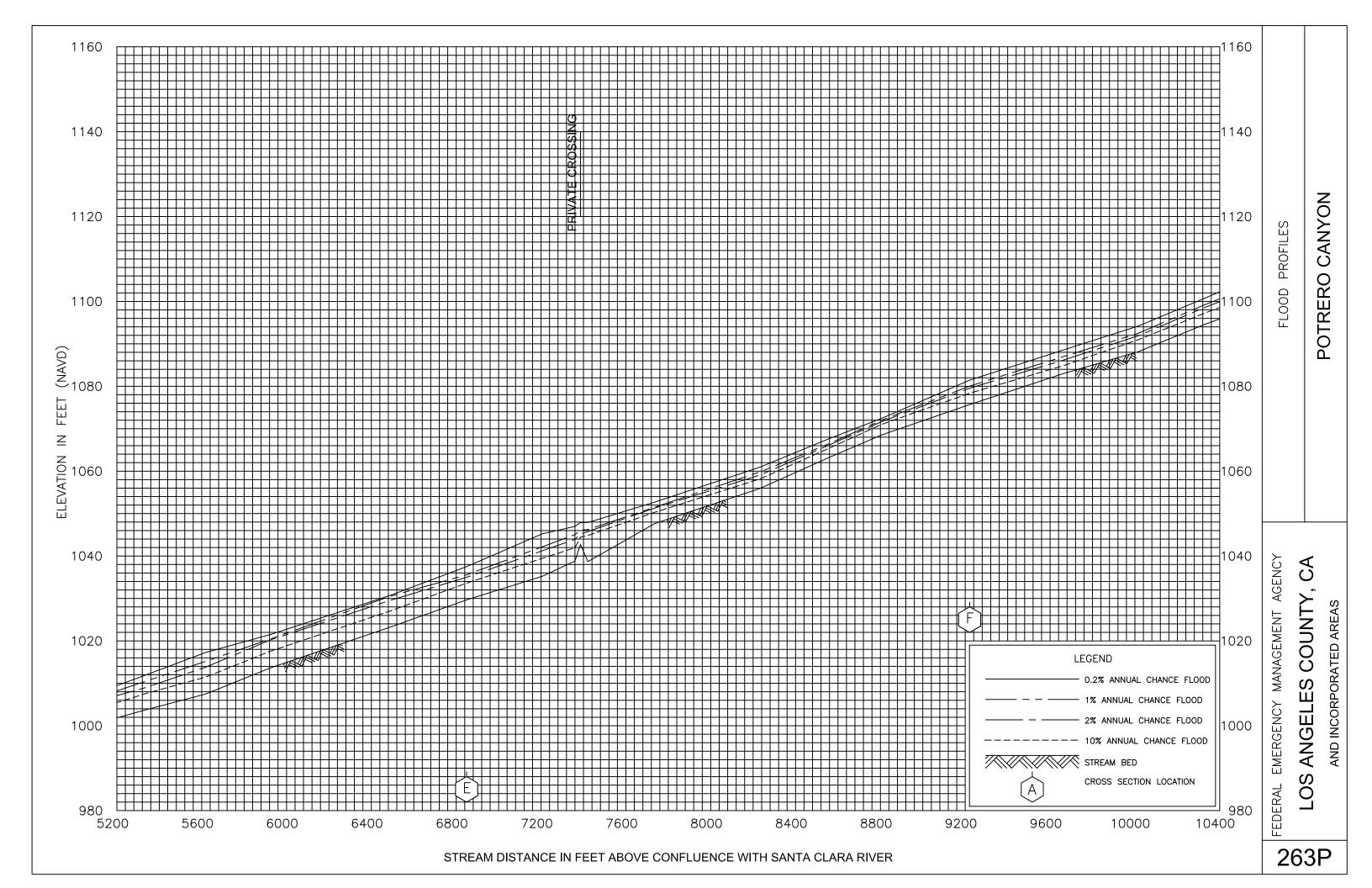


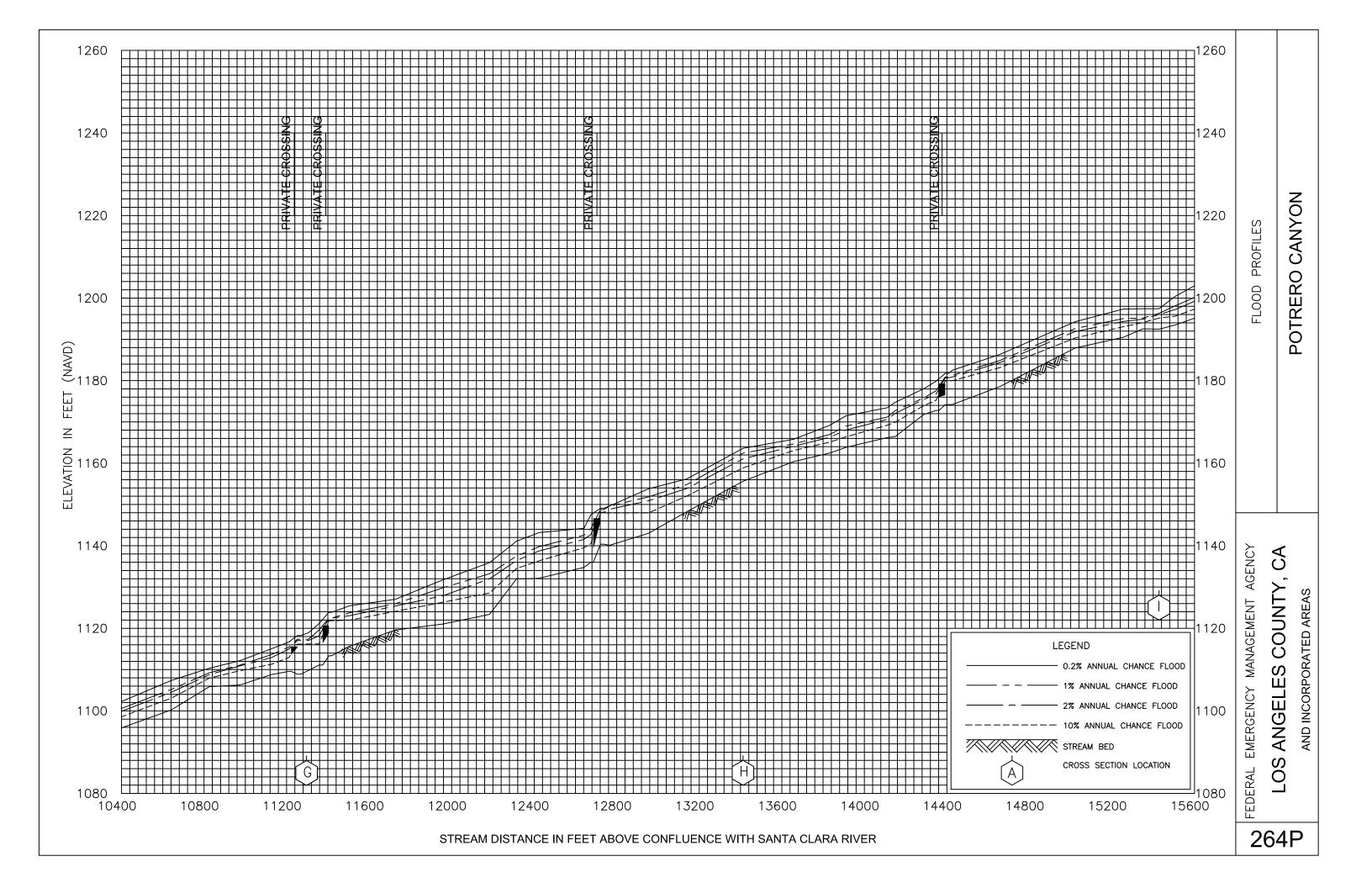


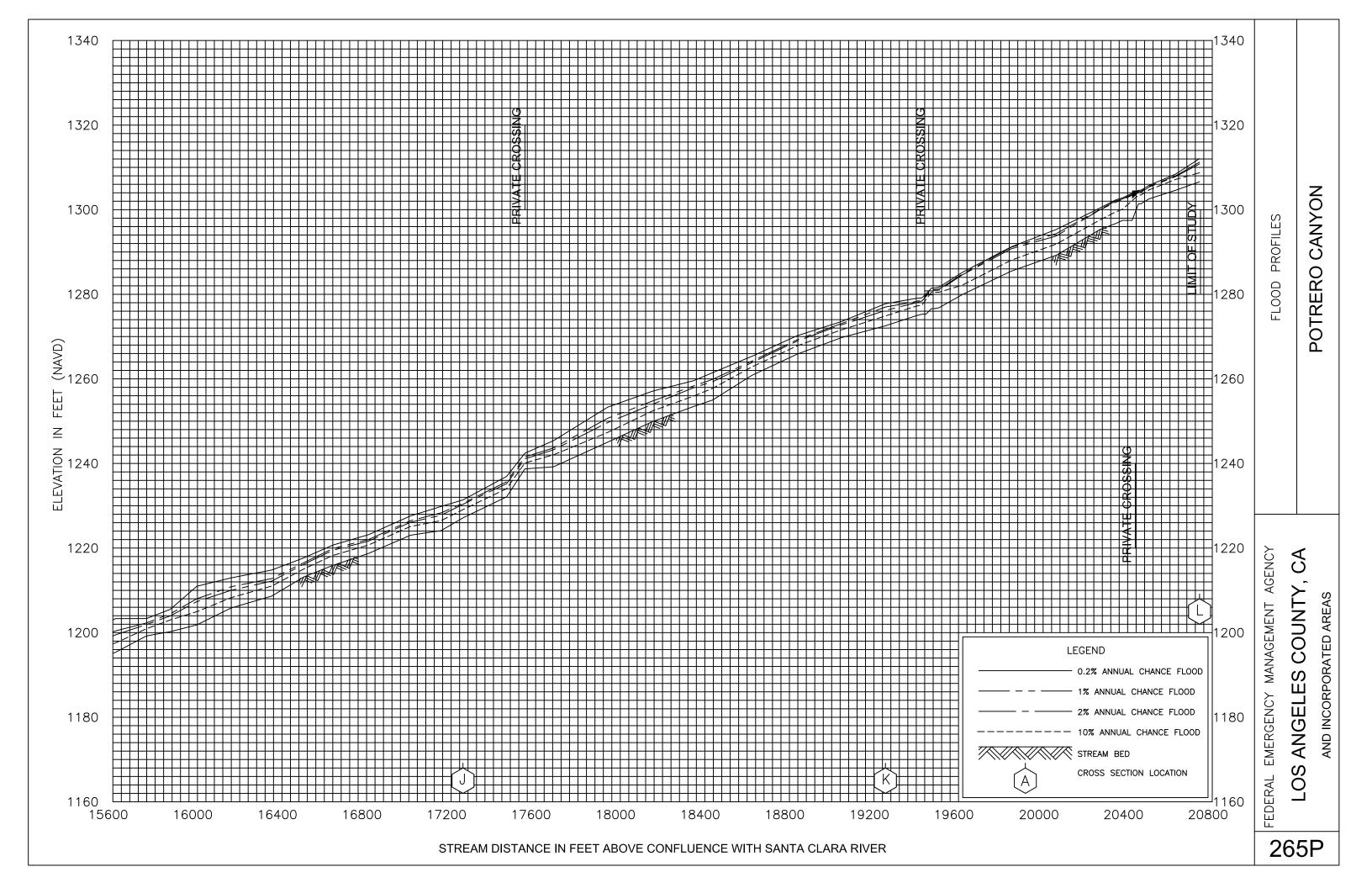


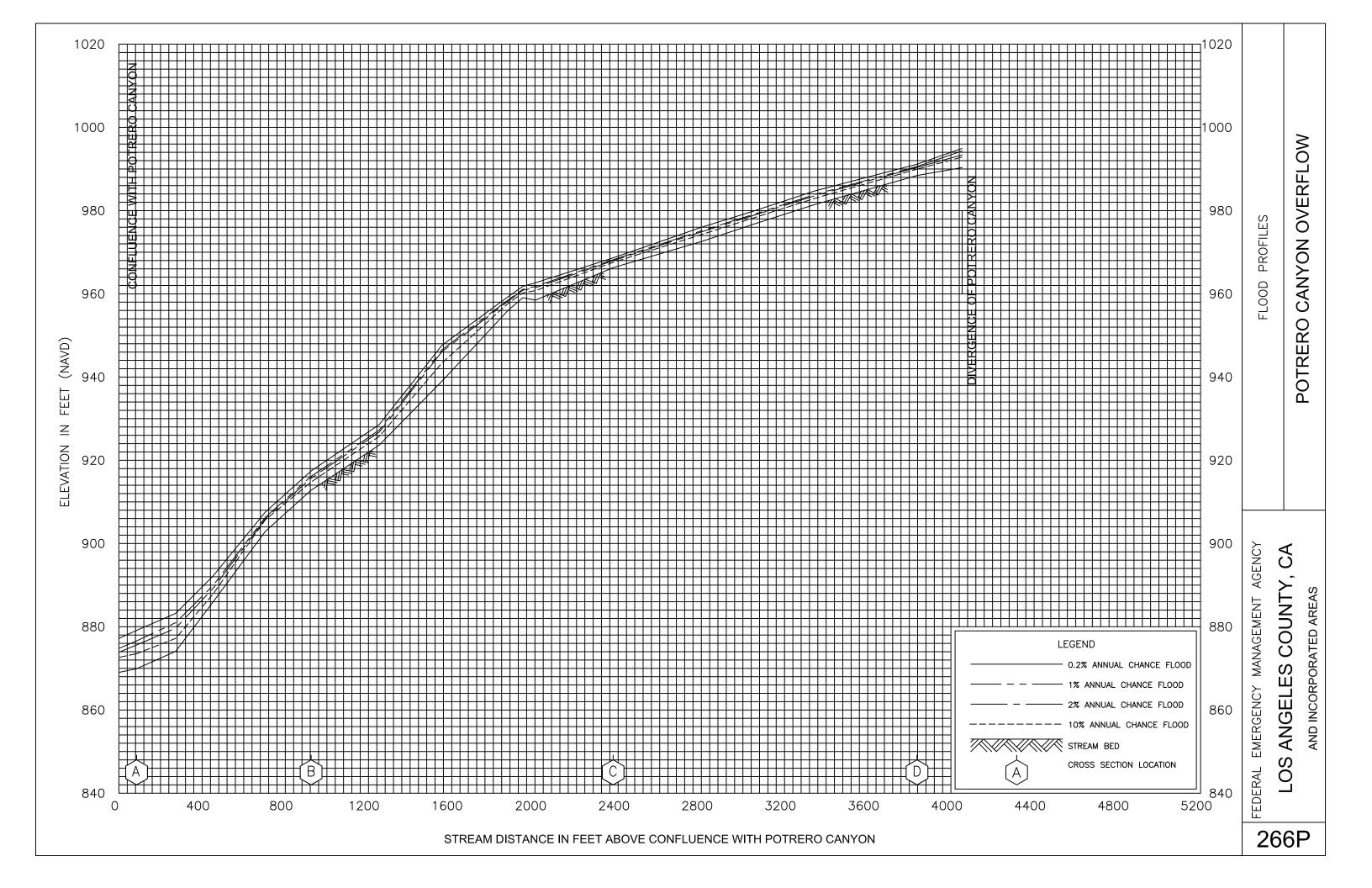


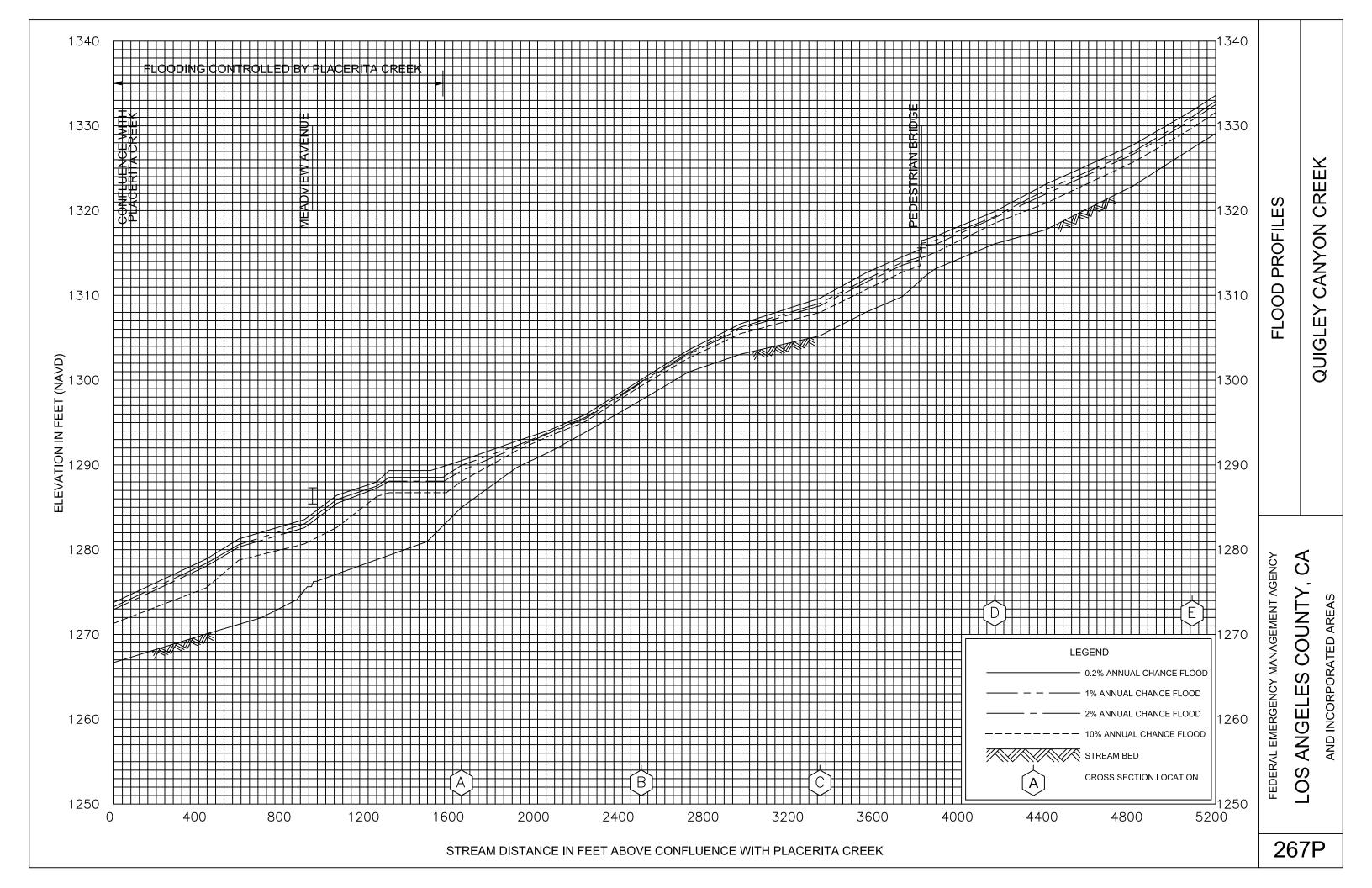


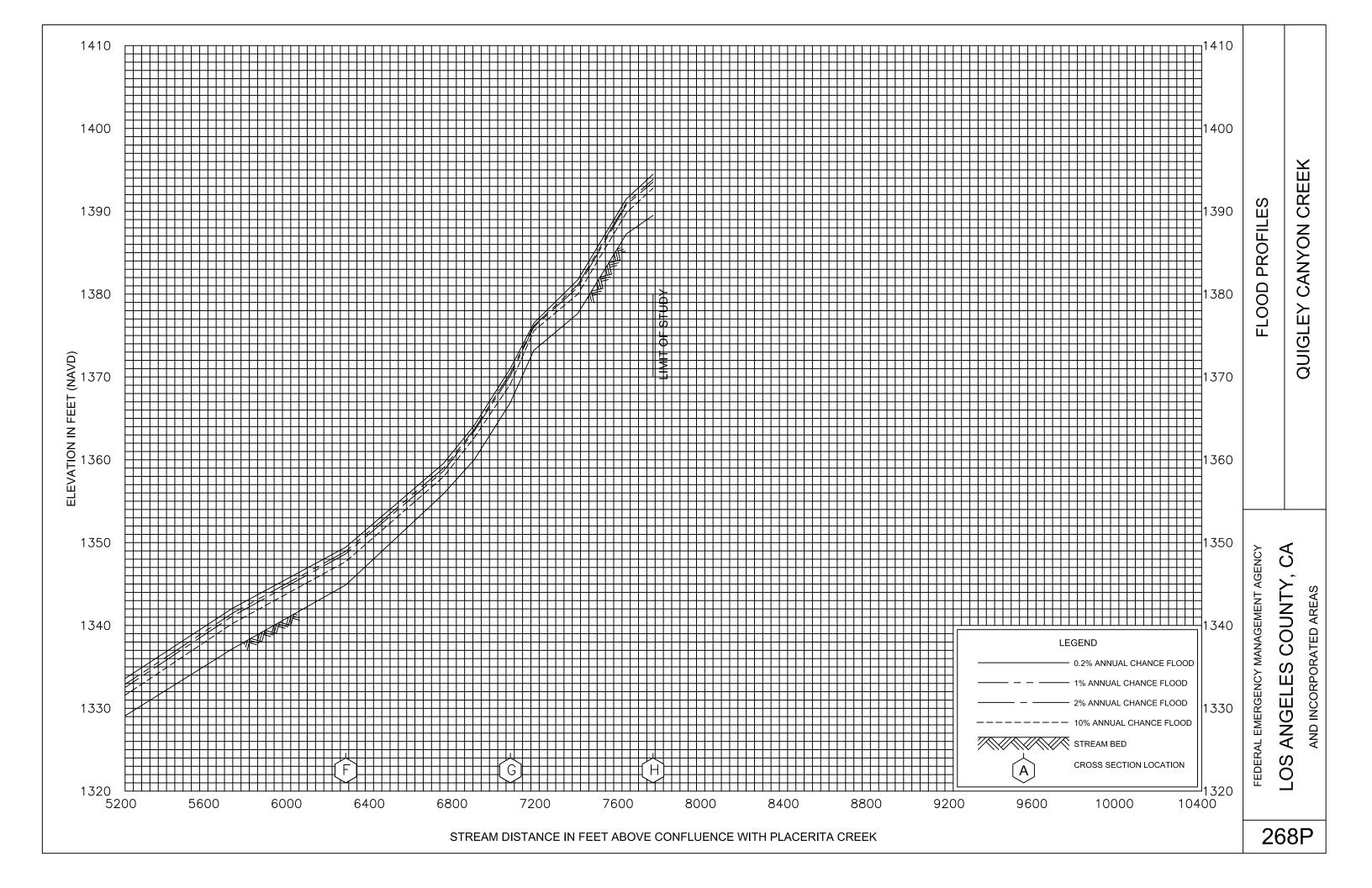


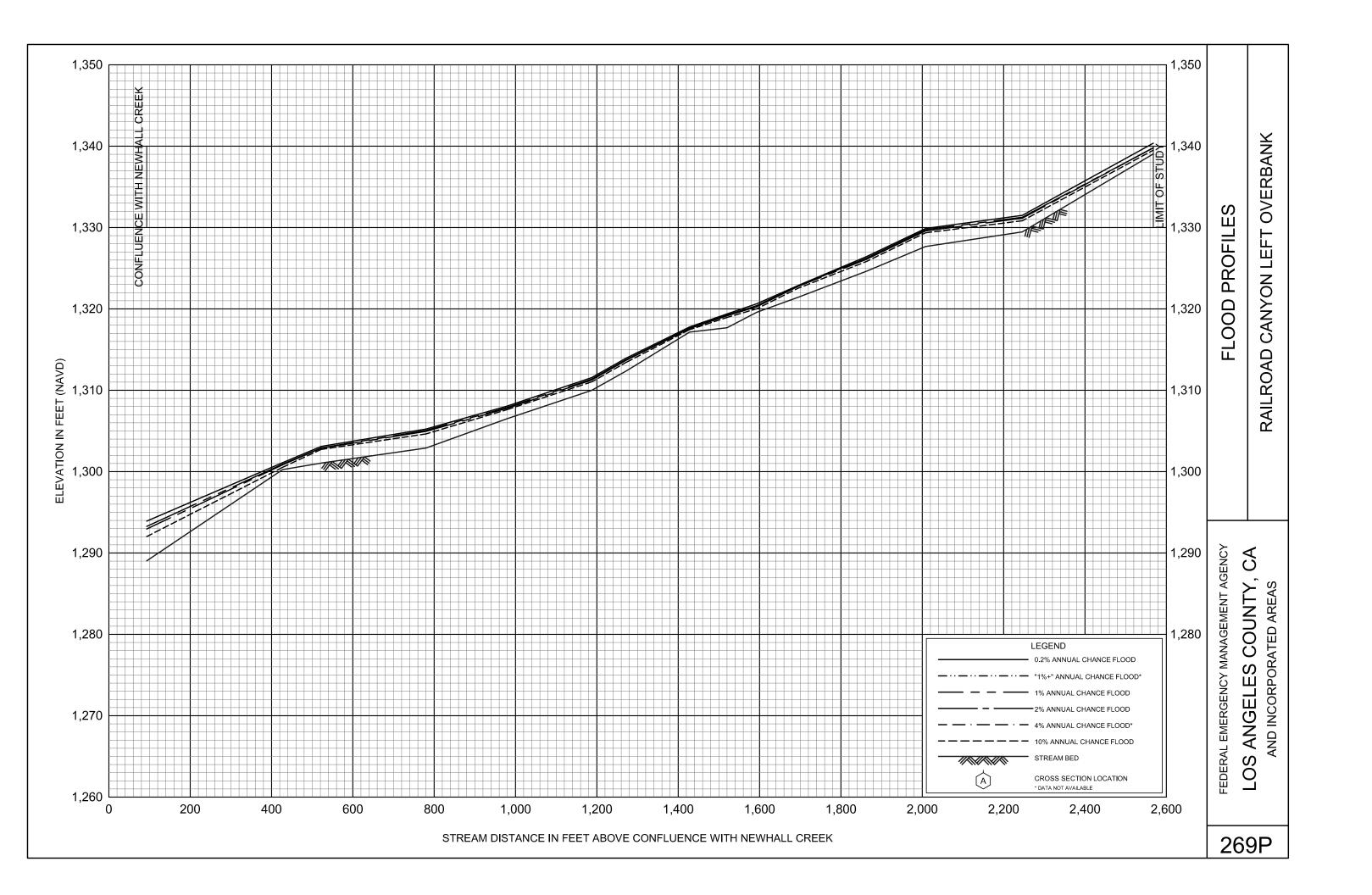


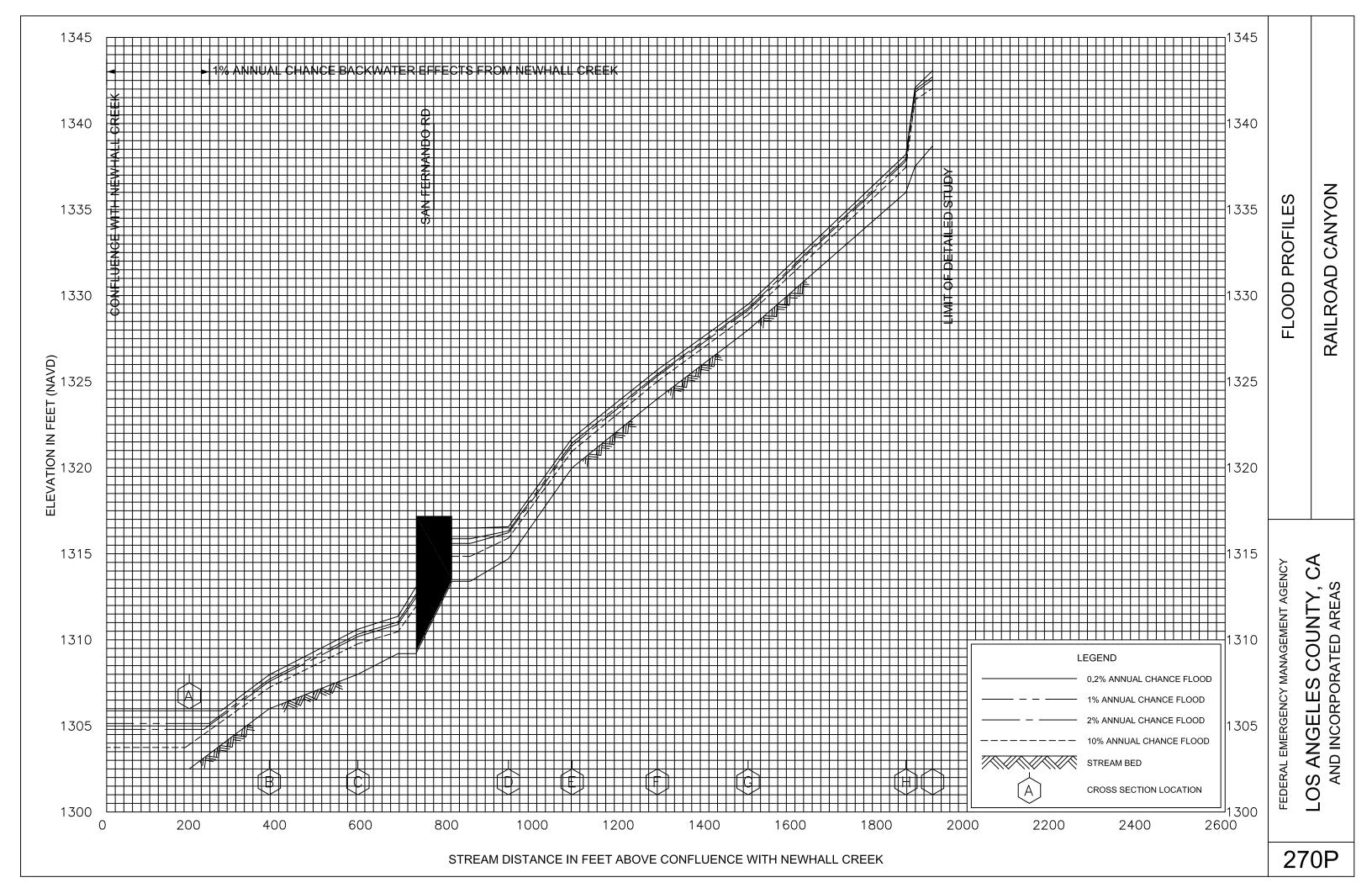












## FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

**VOLUME 8 OF 9** 



# LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
AGOURA HILLS, CITY OF	065072	COMMERCE, CITY OF	060110
ALHAMBRA, CITY OF*	060095	COMPTON, CITY OF	060111
ARCADIA, CITY OF*	065014	COVINA, CITY OF*	065024
ARTESIA, CITY OF*	060097	CUDAHY, CITY OF	060657
AVALON, CITY OF	060098	CULVER CITY, CITY OF	060114
AZUSA, CITY OF	065015	DIAMOND BAR, CITY OF	060741
BALDWIN PARK, CITY OF*	060100	DOWNEY, CITY OF	060645
BELL, CITY OF*	060101	DUARTE, CITY OF*	065026
BELL GARDENS, CITY OF	060656	EL MONTE, CITY OF*	060658
BELLFLOWER, CITY OF	060102	EL SEGUNDO, CITY OF	060118
BEVERLY HILLS, CITY OF*	060655	GARDENA, CITY OF	060119
BRADBURY, CITY OF*	065017	GLENDALE, CITY OF	065030
BURBANK, CITY OF	065018	GLENDORA, CITY OF*	065031
CALABASAS, CITY OF	060749	HAWAIIAN GARDENS, CITY OF*	065032
CARSON, CITY OF	060107	HAWTHORNE, CITY OF*	060123
CERRITOS, CITY OF	060108	HERMOSA BEACH, CITY OF	060124
CLAREMONT, CITY OF*	060109	HIDDEN HILLS, CITY OF	060125

^{*}No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

FLOOD INSURANCE STUDY NUMBER

06037CV008F

Version Number 2.3.3.2



COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
HUNTINGTON PARK, CITY OF*	060126	PICO RIVERA, CITY OF	060148
INDUSTRY, CITY OF*	065035	POMONA, CITY OF*	060149
INGLEWOOD, CITY OF*	065036	RANCHO PALOS VERDES, CITY OF	060464
IRWINDALE, CITY OF*	060129	REDONDO BEACH, CITY OF	060150
LA CANADA FLINTRIDGE, CITY OF*	060669	ROLLING HILLS, CITY OF*	060151
LA HABRA HEIGHTS, CITY OF*	060701	ROLLING HILLS ESTATES, CITY OF*	065054
LA MIRADA, CITY OF	060131	ROSEMEAD, CITY OF*	060153
LA PUENTE*, CITY OF	065039	SAN DIMAS, CITY OF	060154
LA VERNE, CITY OF	060133	SAN FERNANDO, CITY OF	060628
LAKEWOOD, CITY OF	060130	SAN GABRIEL, CITY OF*	065055
LANCASTER, CITY OF	060672	SAN MARINO, CITY OF*	065057
LAWNDALE, CITY OF*	060134	SANTA CLARITA, CITY OF	060729
LOMITA, CITY OF*	060135	SANTA FE SPRINGS, CITY OF	060158
LONG BEACH, CITY OF	060136	SANTA MONICA, CITY OF	060159
LOS ANGELES, CITY OF	060137	SIERRA MADRE, CITY OF*	065059
LOS ANGELES COUNTY UNINCORPORATED AREAS	065043	SIGNAL HILL, CITY OF*	060161
LYNWOOD, CITY OF	060635	SOUTH EL MONTE, CITY OF*	060162
MALIBU, CITY OF	060745	SOUTH GATE, CITY OF	060163
MANHATTAN BEACH, CITY OF	060138	SOUTH PASADENA, CITY OF*	065061
MAYWOOD, CITY OF*	060651	TEMPLE CITY, CITY OF*	060653
MONROVIA, CITY OF*	065046	TORRANCE, CITY OF	060165
MONTEBELLO, CITY OF	060141	VERNON, CITY OF*	060166
MONTEREY PARK, CITY OF*	065047	WALNUT, CITY OF*	065069
NORWALK, CITY OF	060652	WEST COVINA, CITY OF	060666
PALMDALE, CITY OF	060144	WEST HOLLYWOOD, CITY OF*	060720
PALOS VERDES ESTATES, CITY OF	060145	WESTLAKE VILLAGE, CITY OF	060744
PARAMOUNT, CITY OF	065049	WHITTIER, CITY OF	060169
PASADENA, CITY OF*	065050		

^{*}No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

### FLOOD INSURANCE STUDY NUMBER **06037CV008F**

Version Number 2.3.3.2



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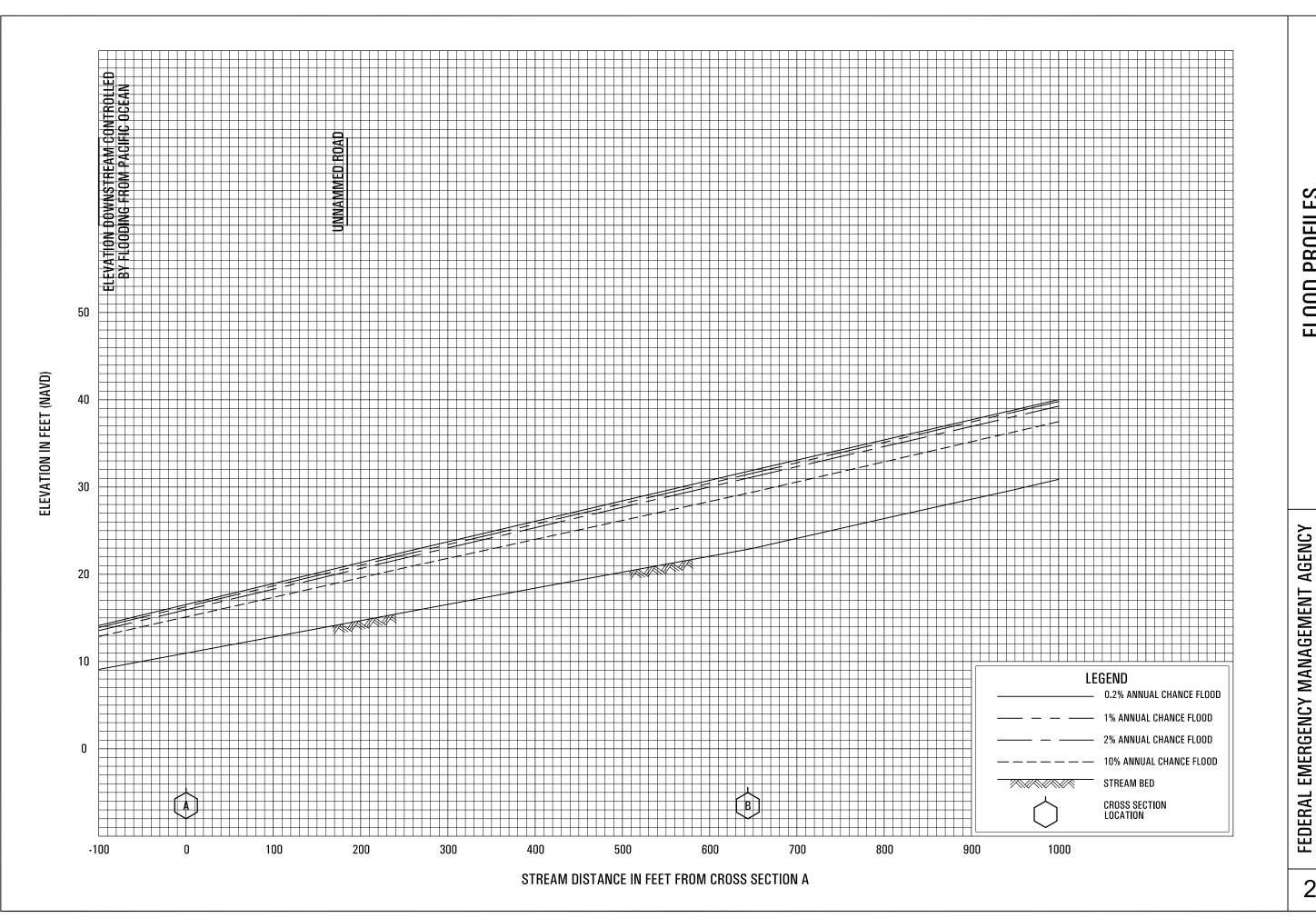
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## **Published Separately**

Flood Insurance Rate Map (FIRM)

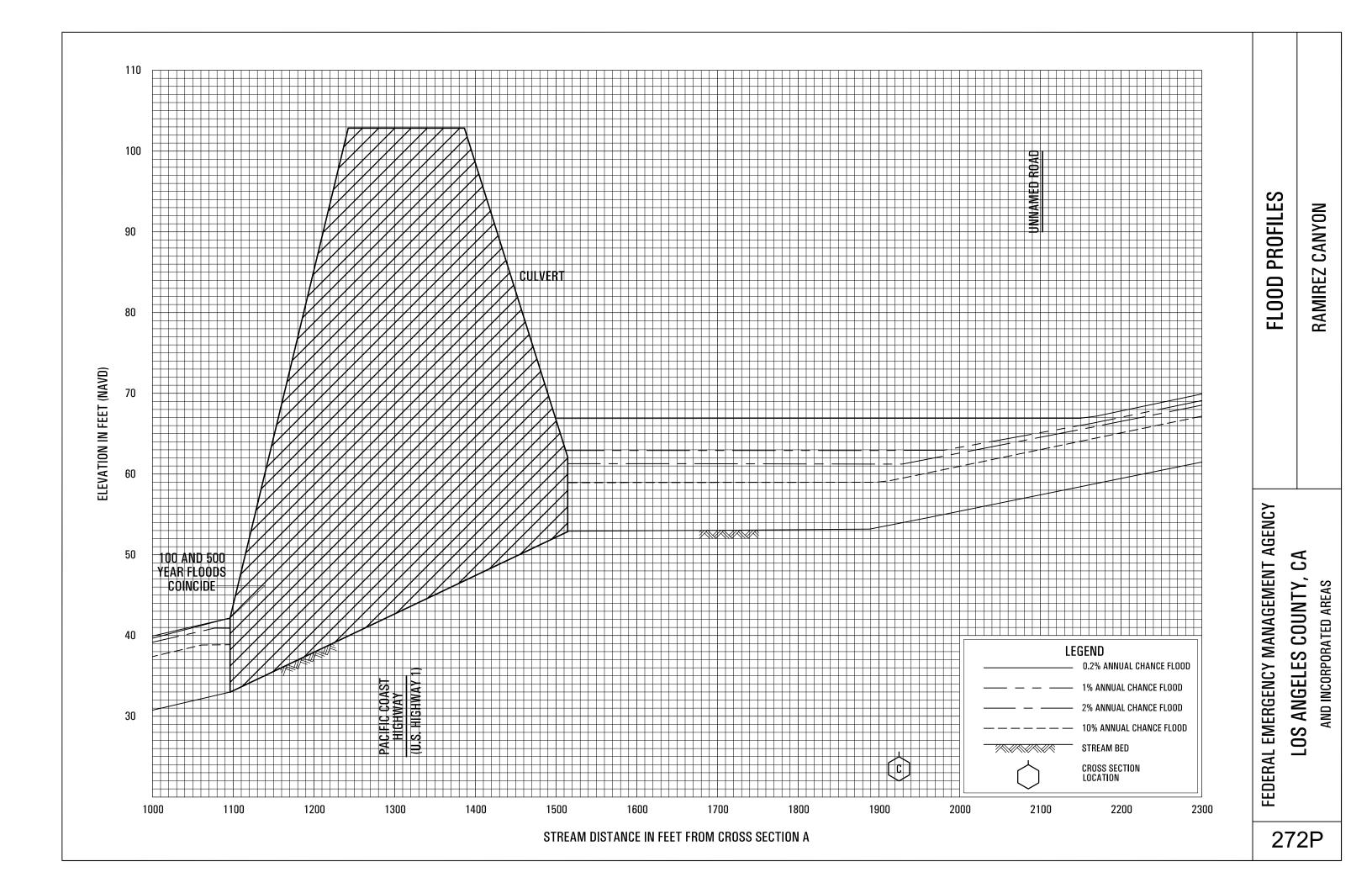


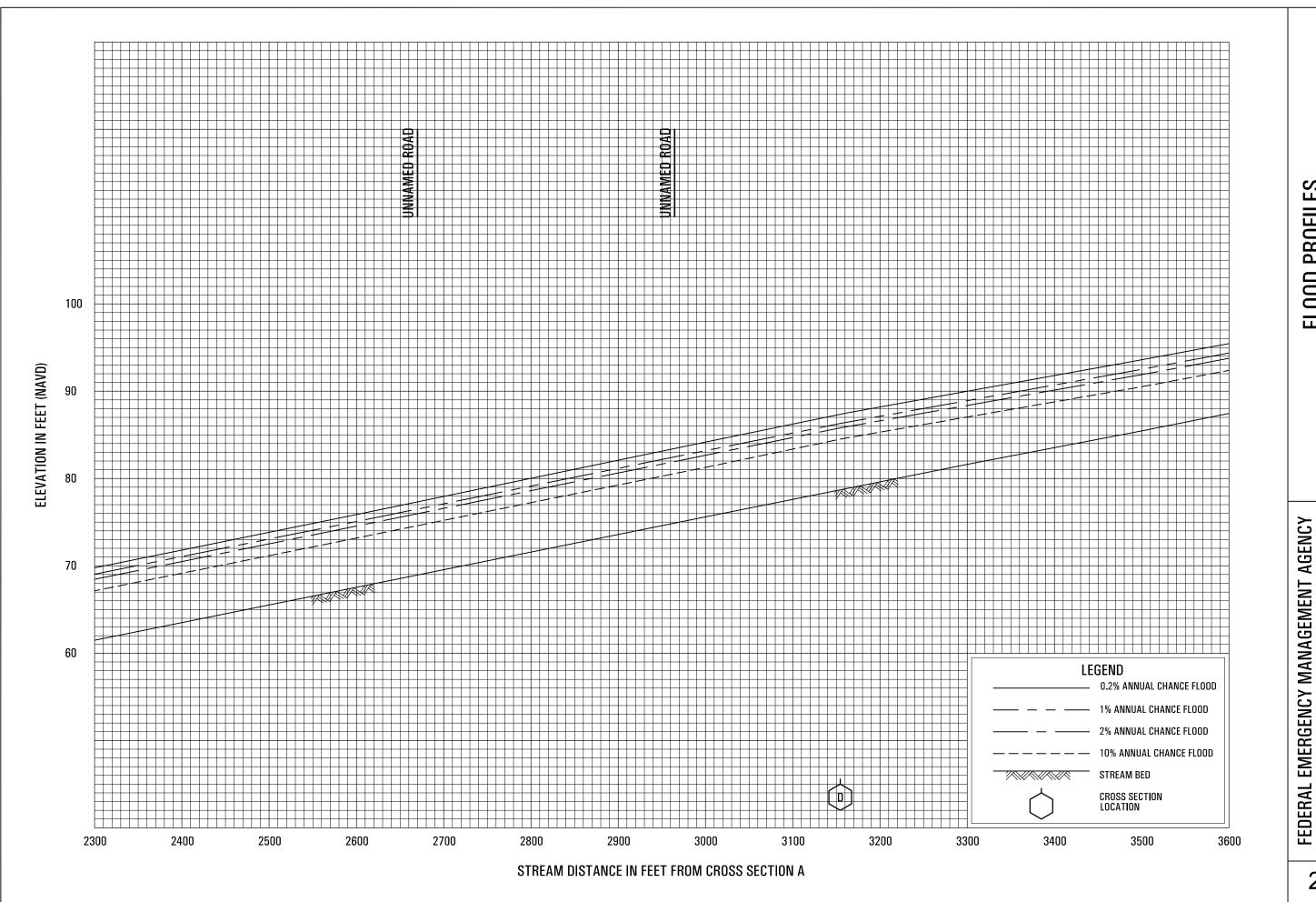
RAMIREZ CANYON

271P

LOS ANGELES COUNTY, CA

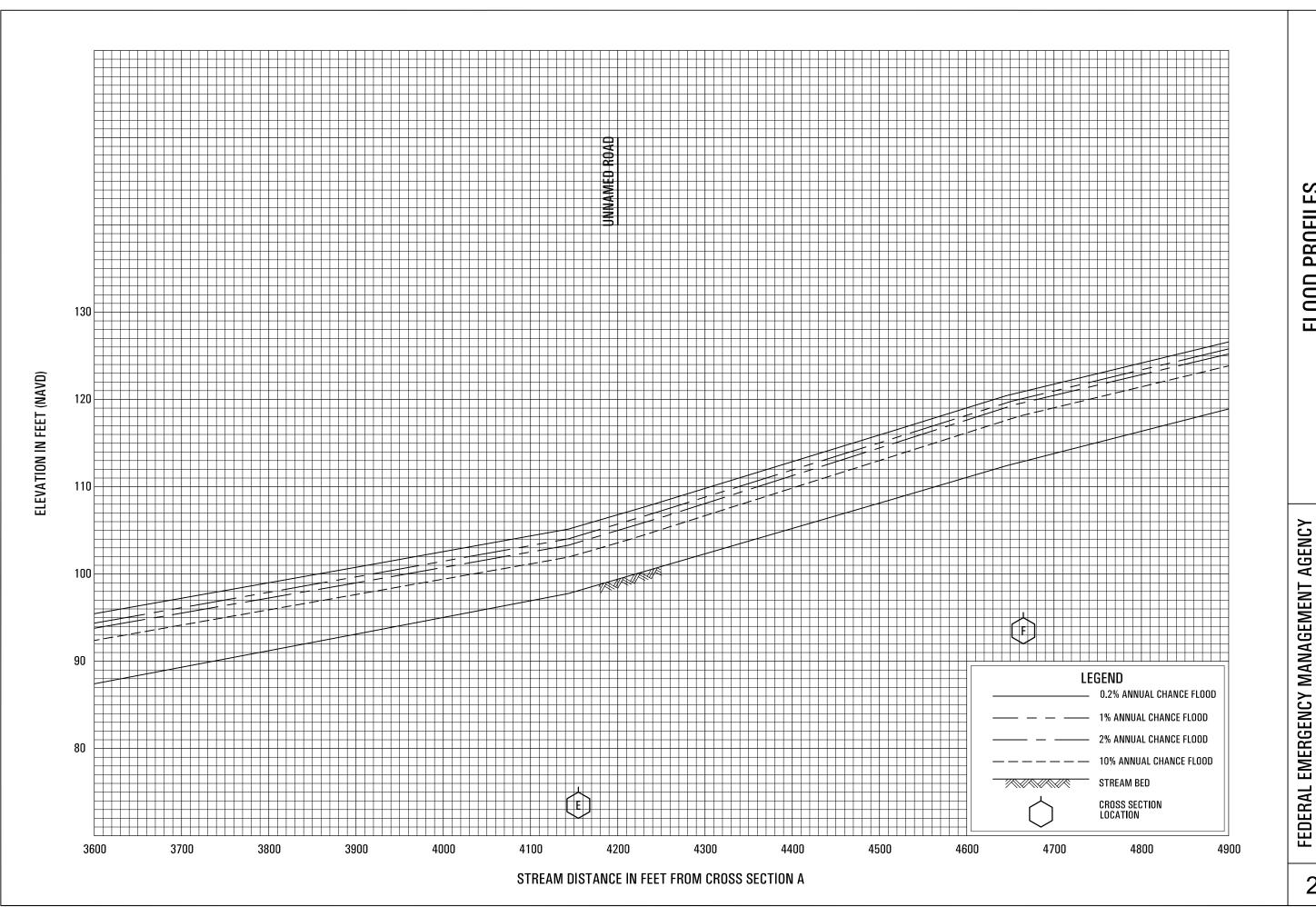
AND INCORPORATED AREAS





RAMIREZ CANYON

LOS ANGELES COUNTY, CA AND INCORPORATED AREAS

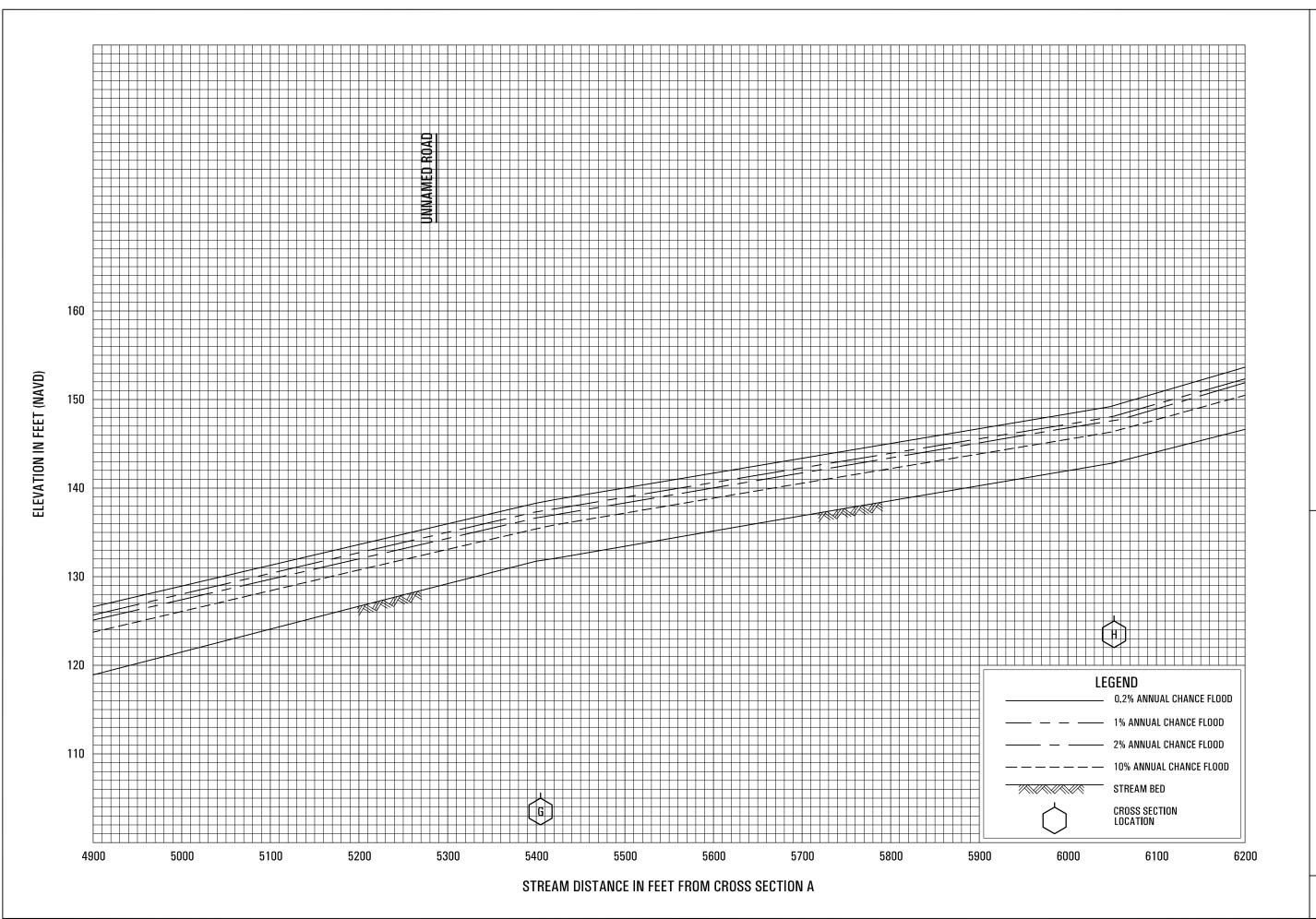


RAMIREZ CANYON

274P

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AND INCORPORATED AREAS



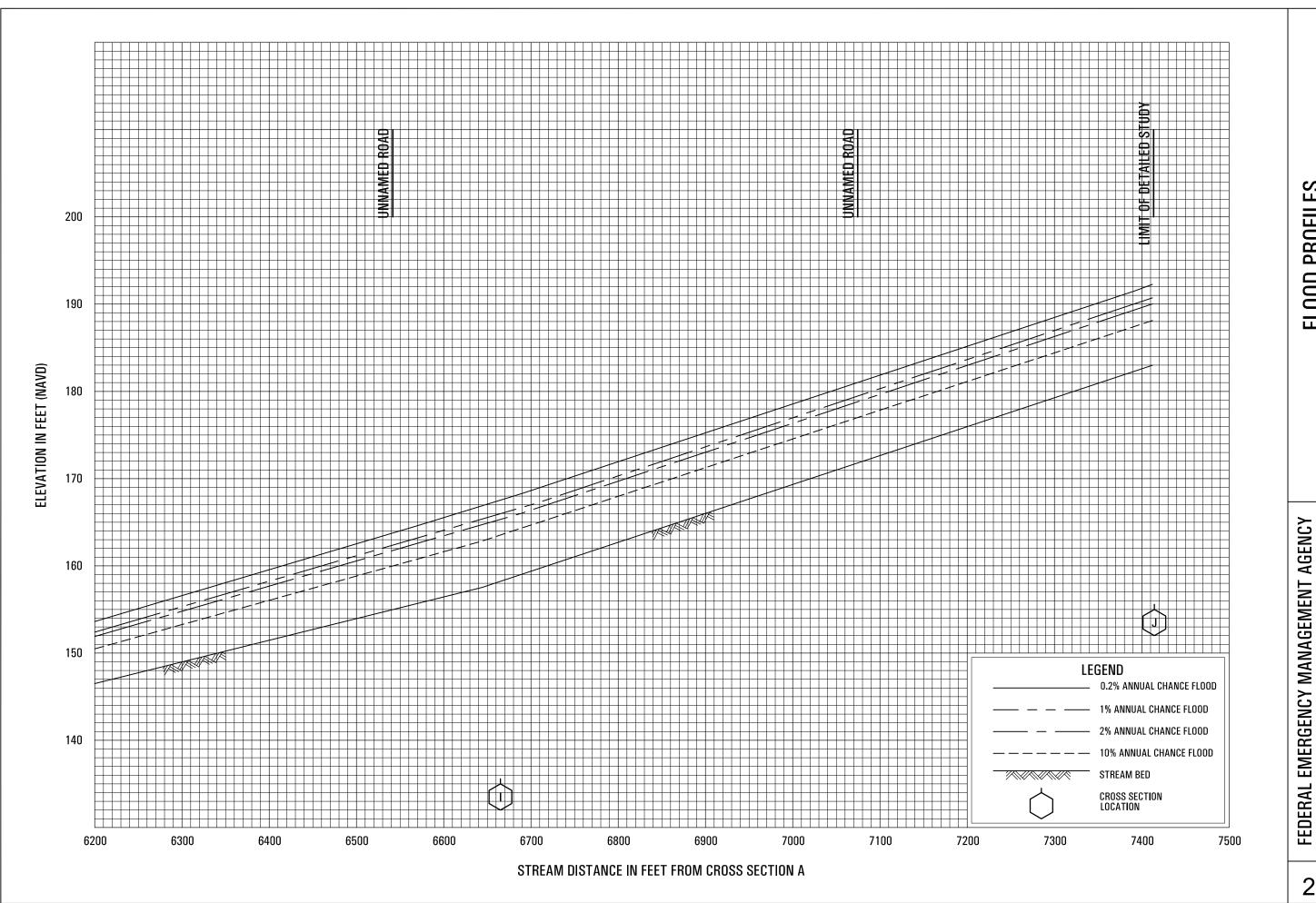
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FEDERAL EMERGENCY MANAGEMENT AGENCY

FLOOD PROFILES

RAMIREZ CANYON

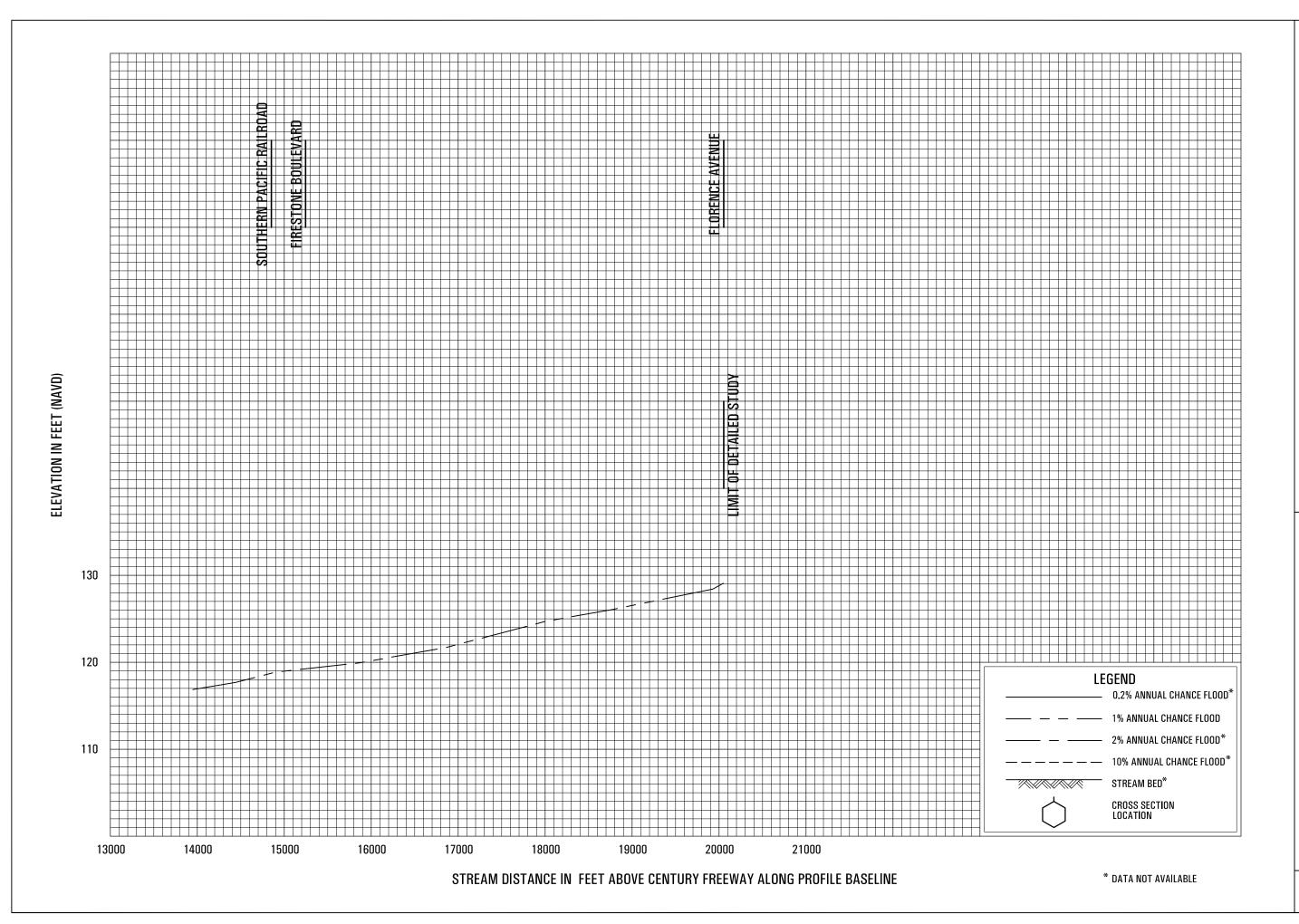


RAMIREZ CANYON

276P

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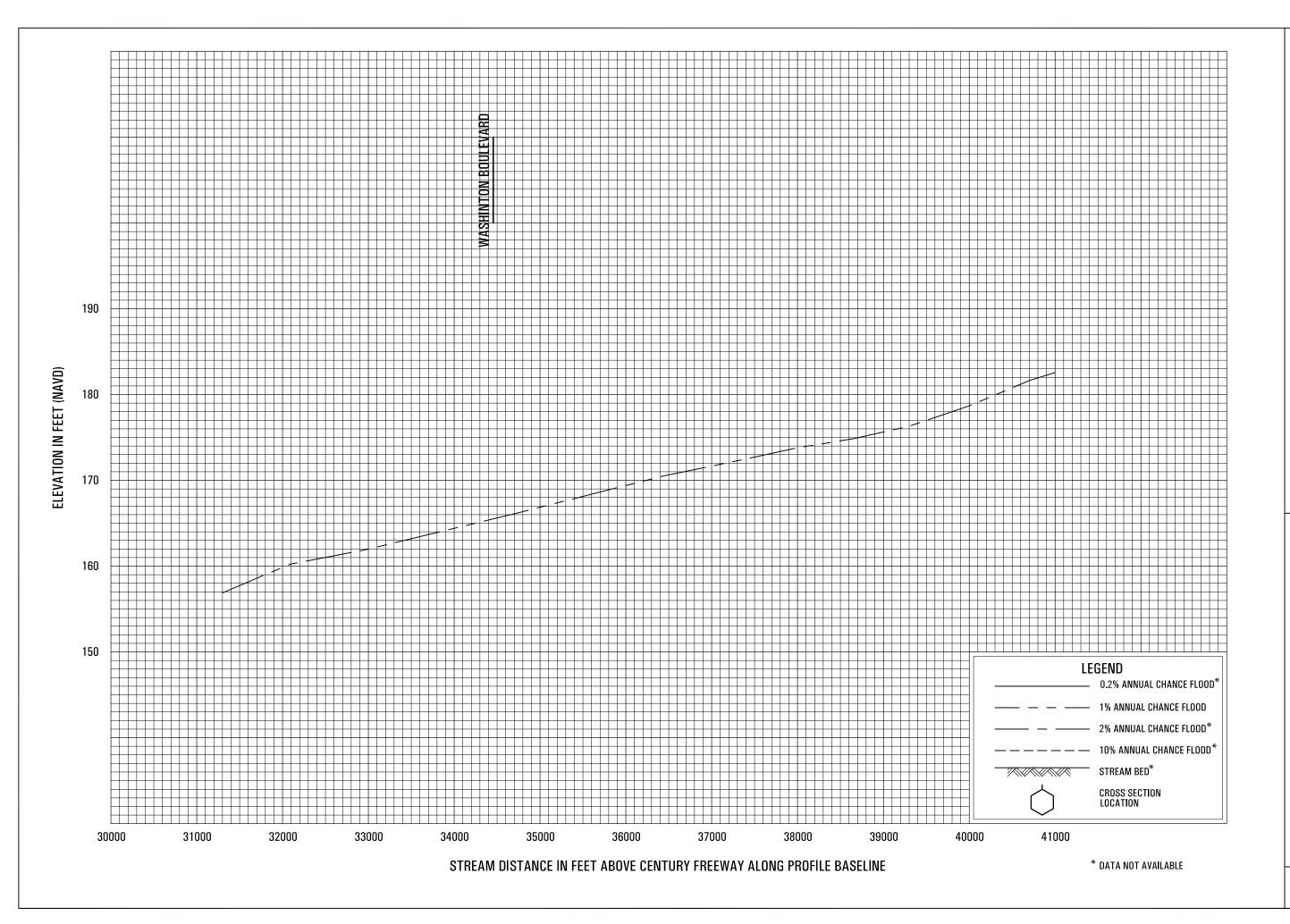
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RIO HONDO LEFT OVERBANK PATH 3

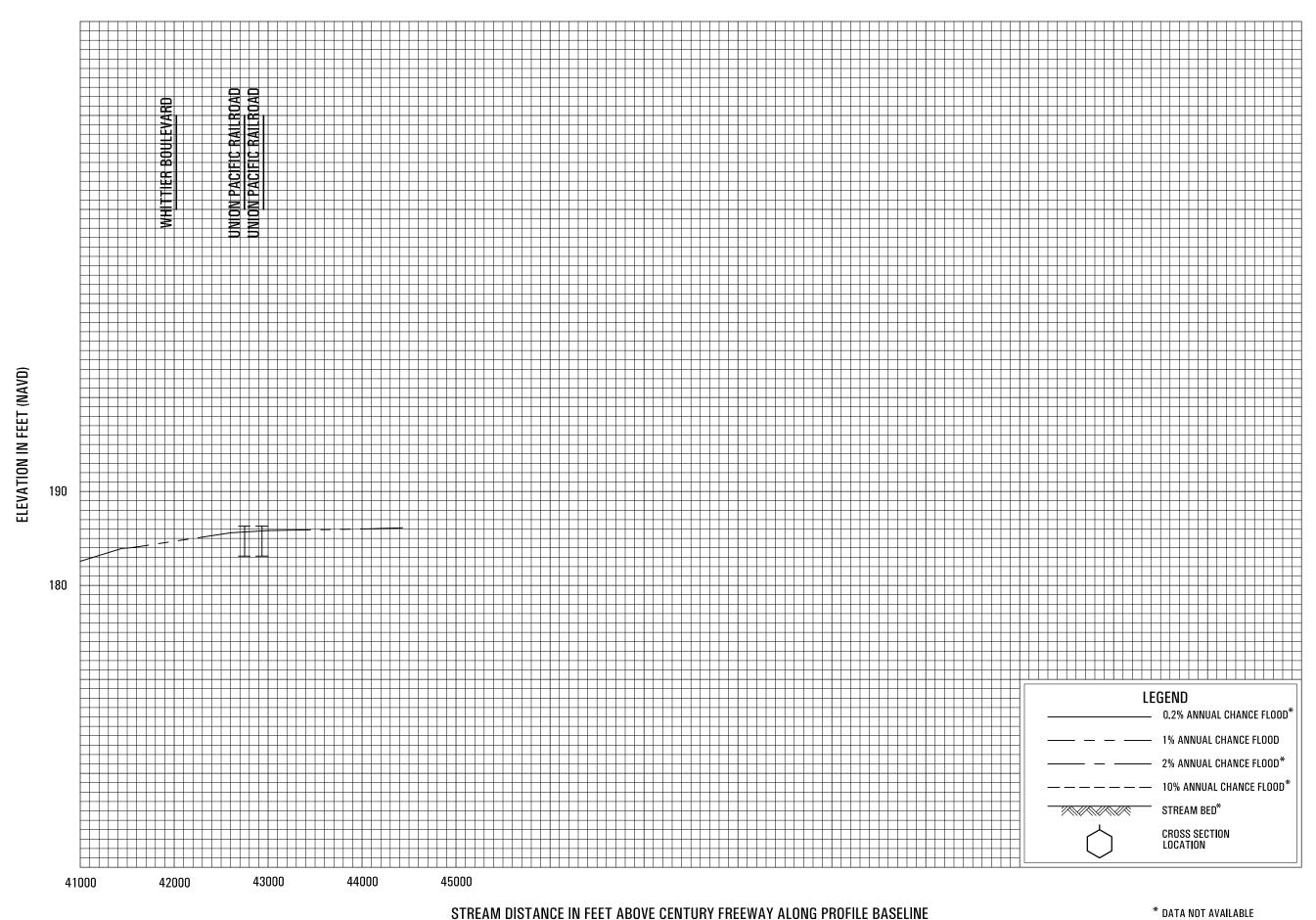
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RIO HONDO LEFT OVERBANK PATH

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LOS ANGELES COUNTY, CA
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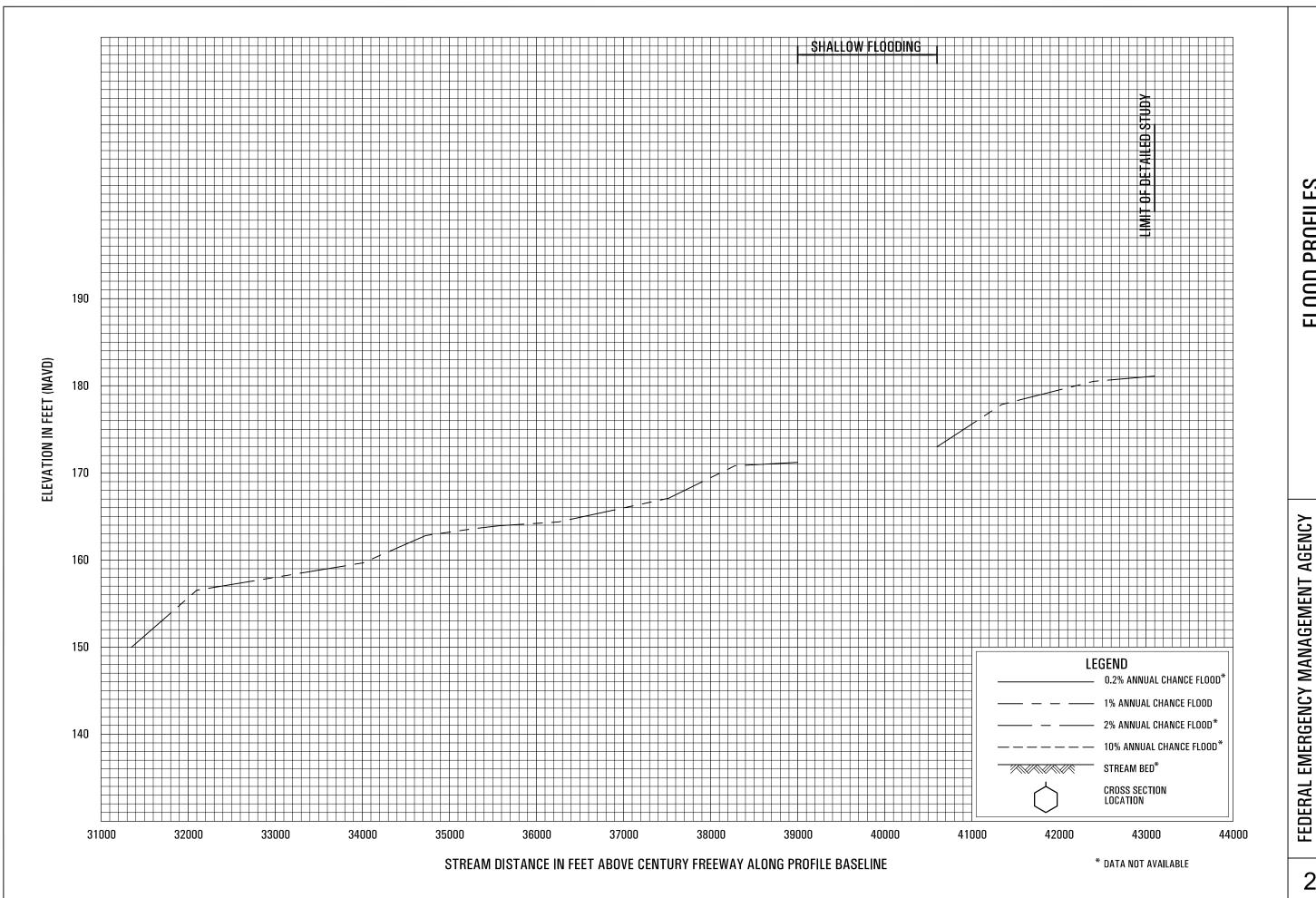
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279P

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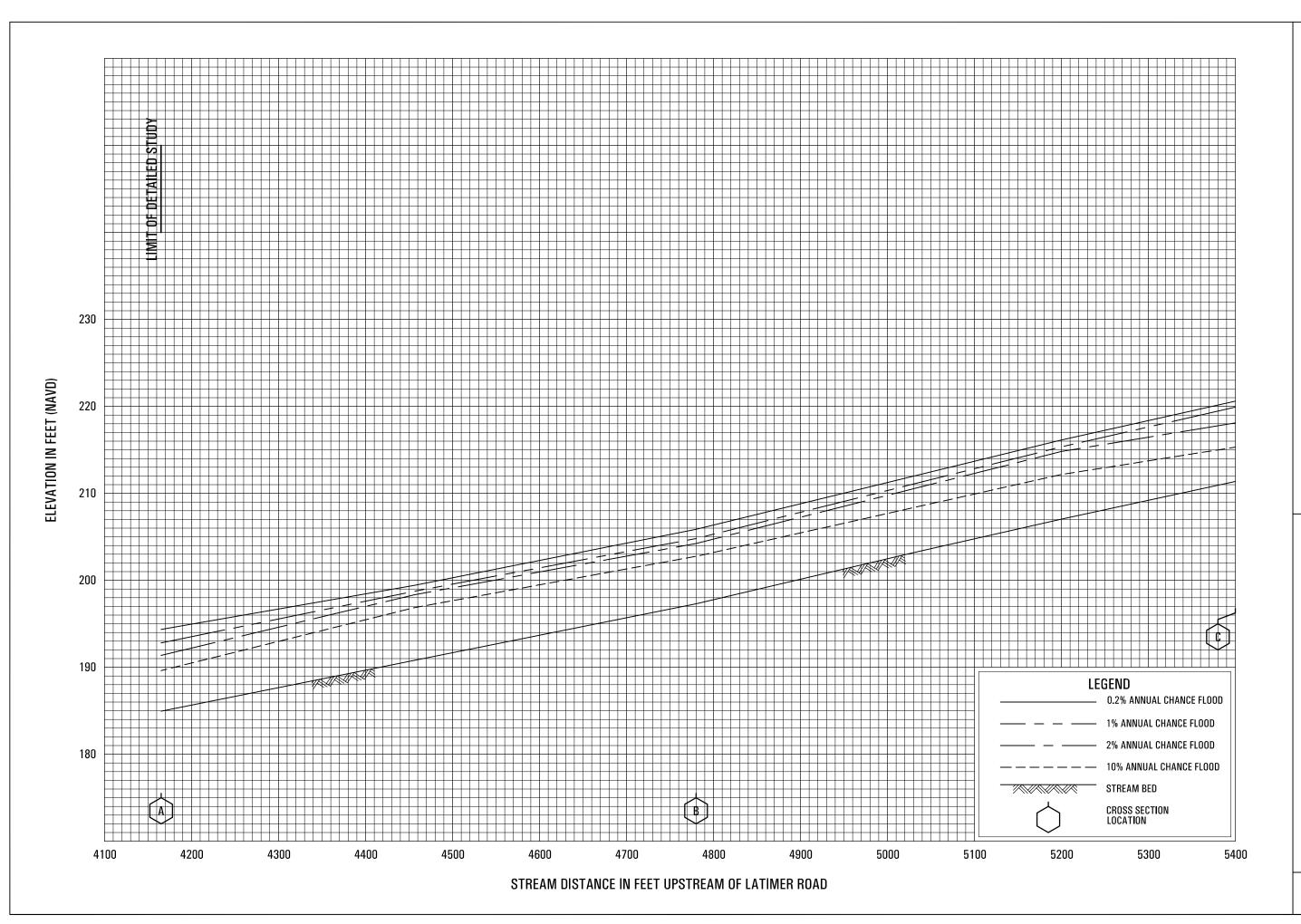
RIO HONDO LEFT OVERBANK PATH 5

FLOOD PROFILES



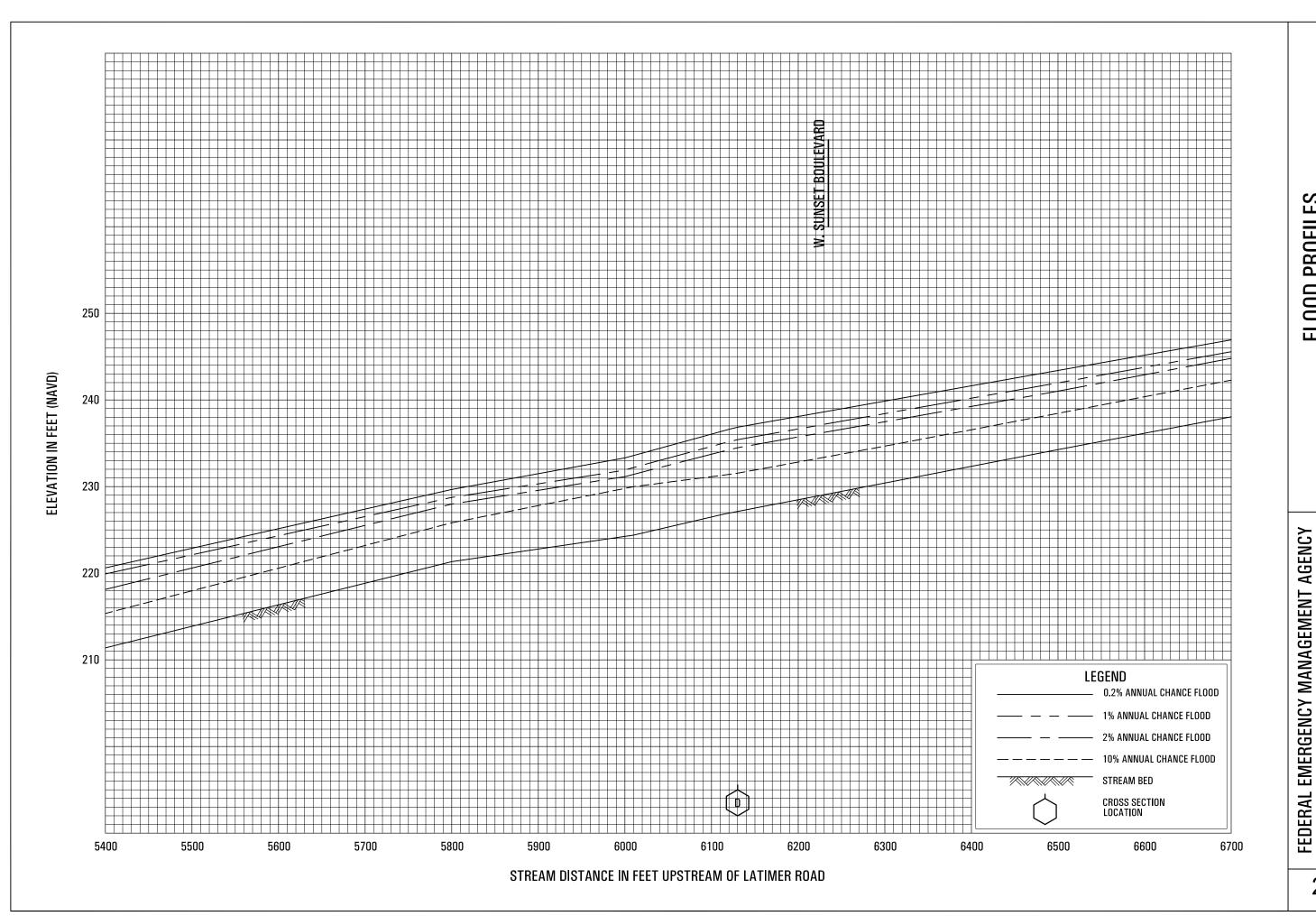
RIO HONDO LEFT OVERBANK PATH 6

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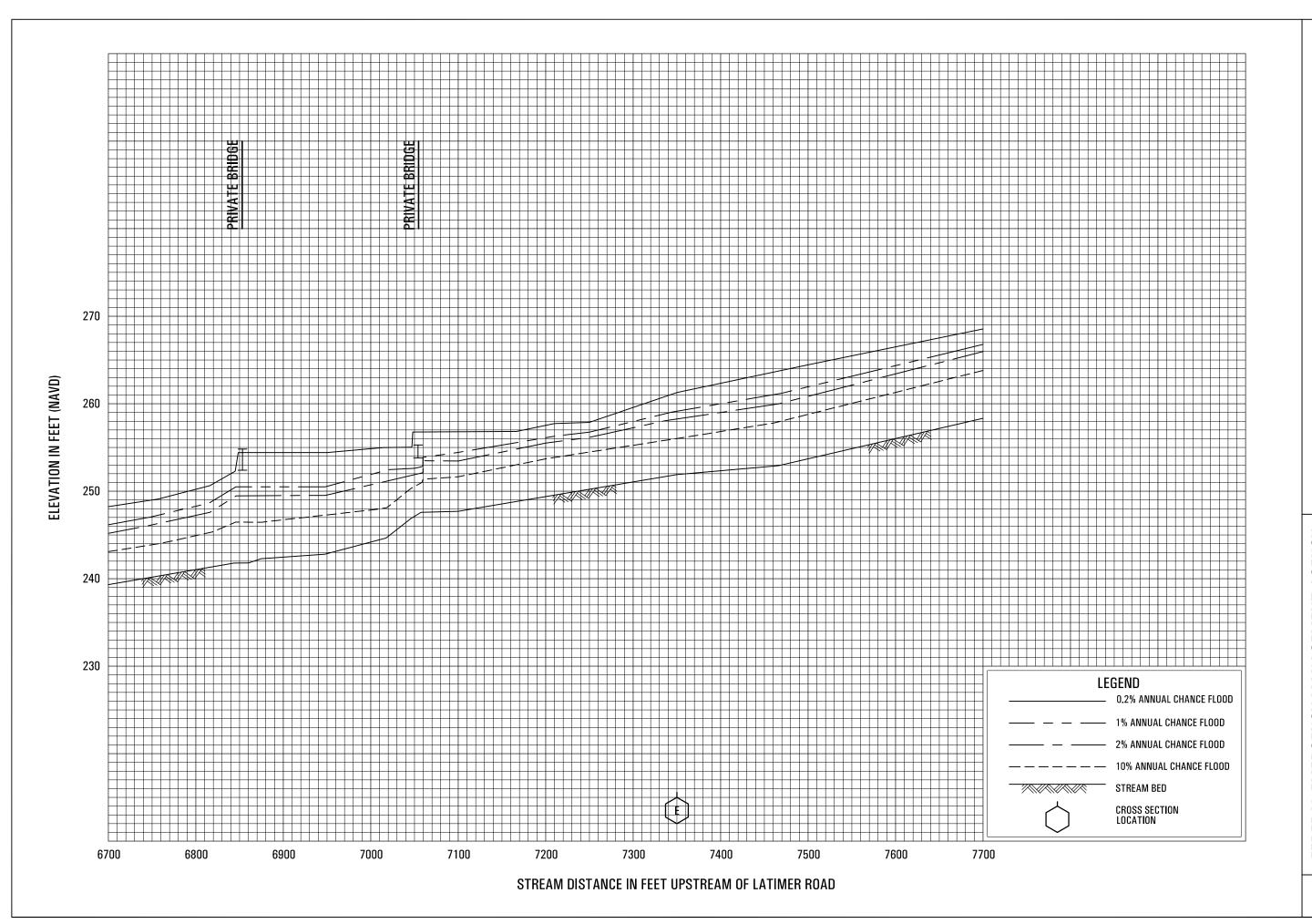
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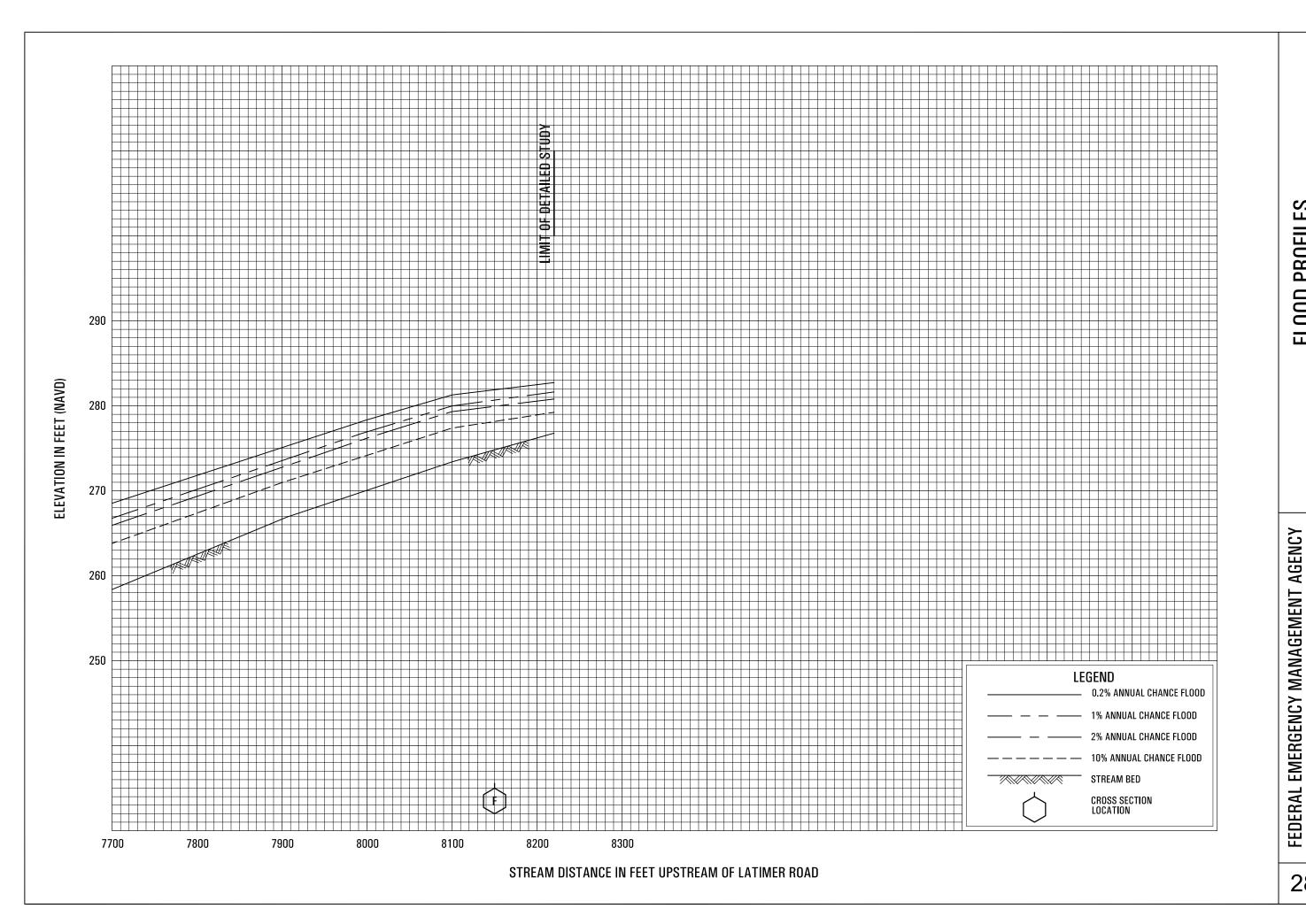
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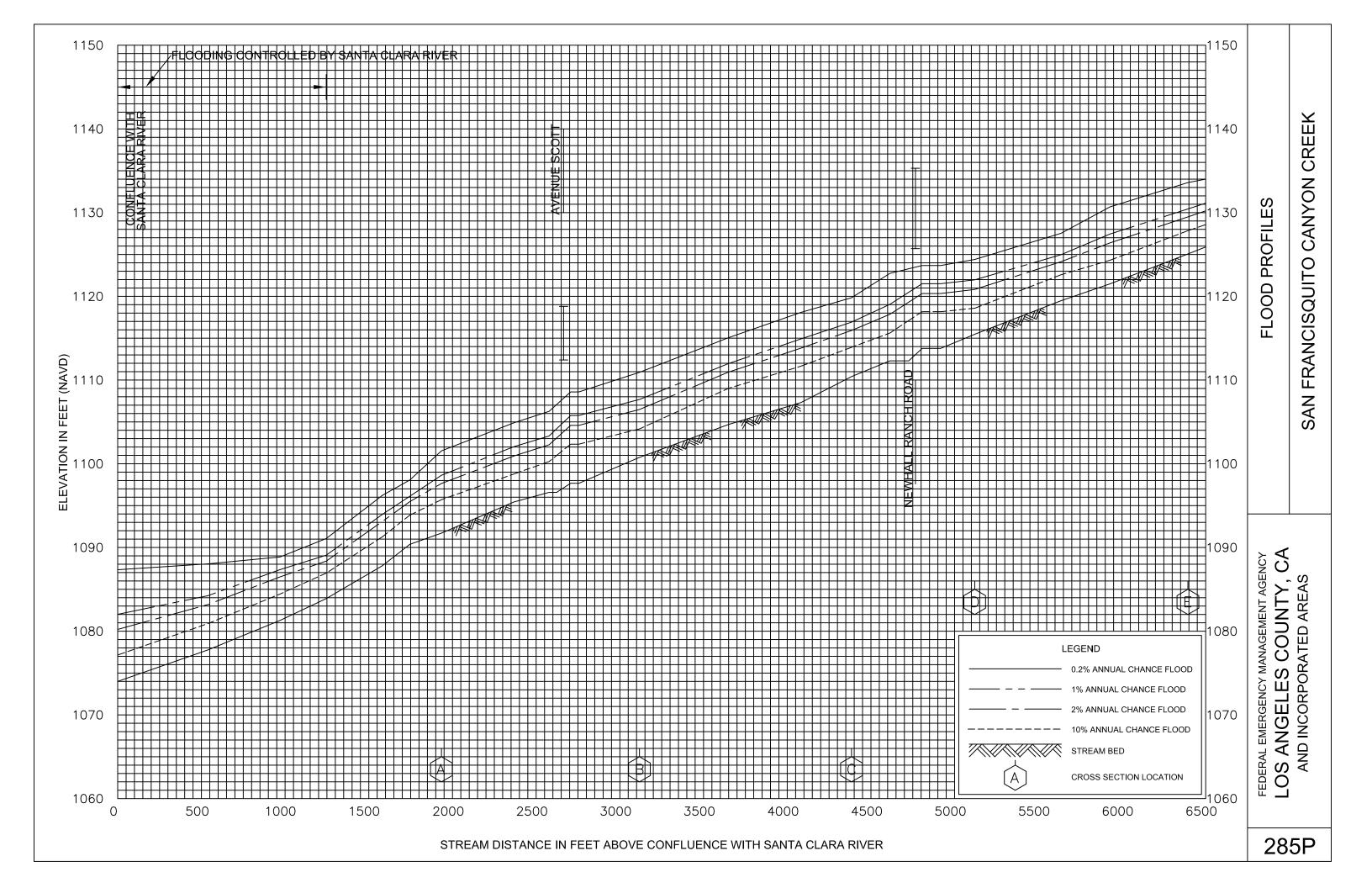
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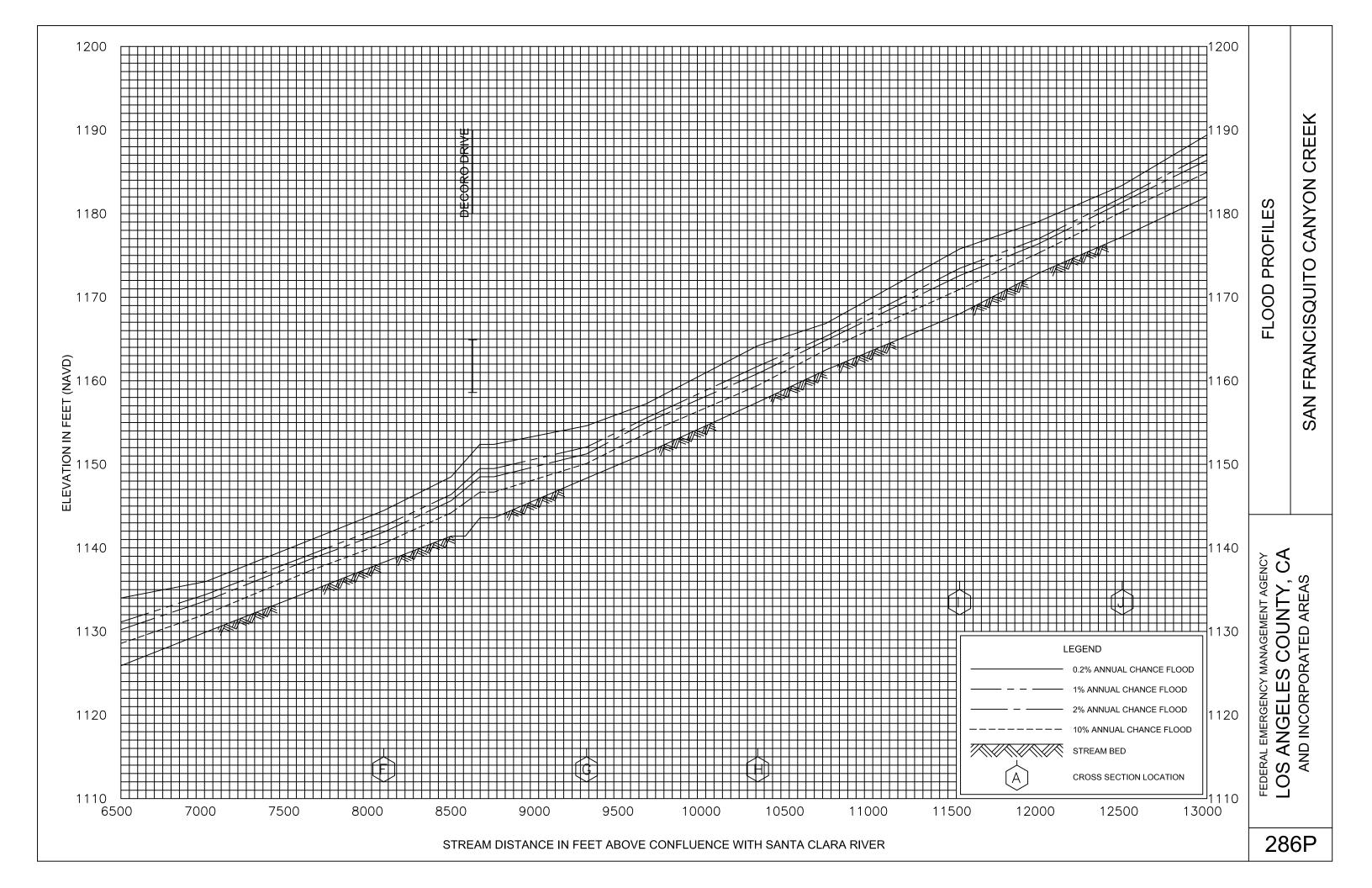
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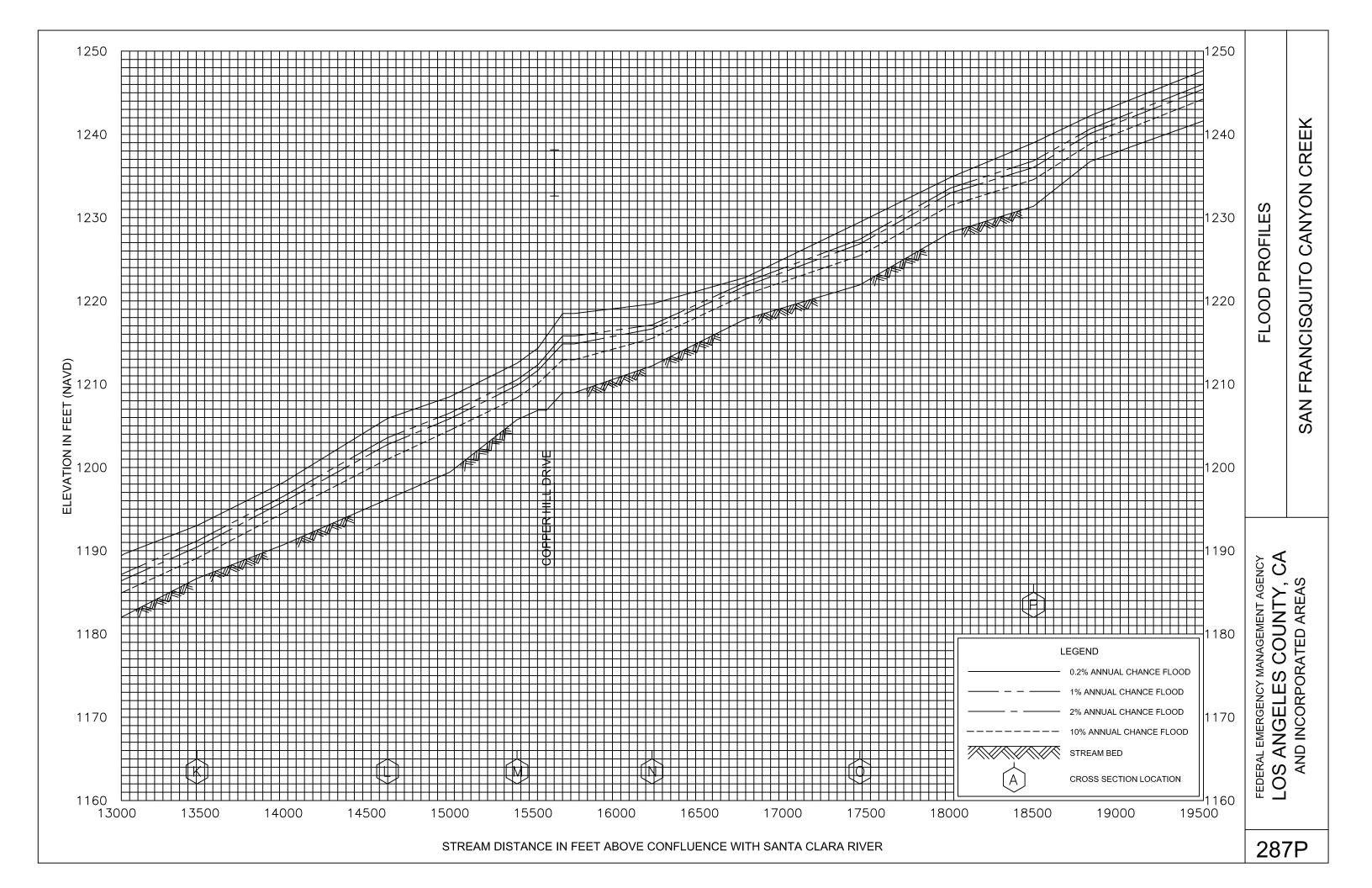


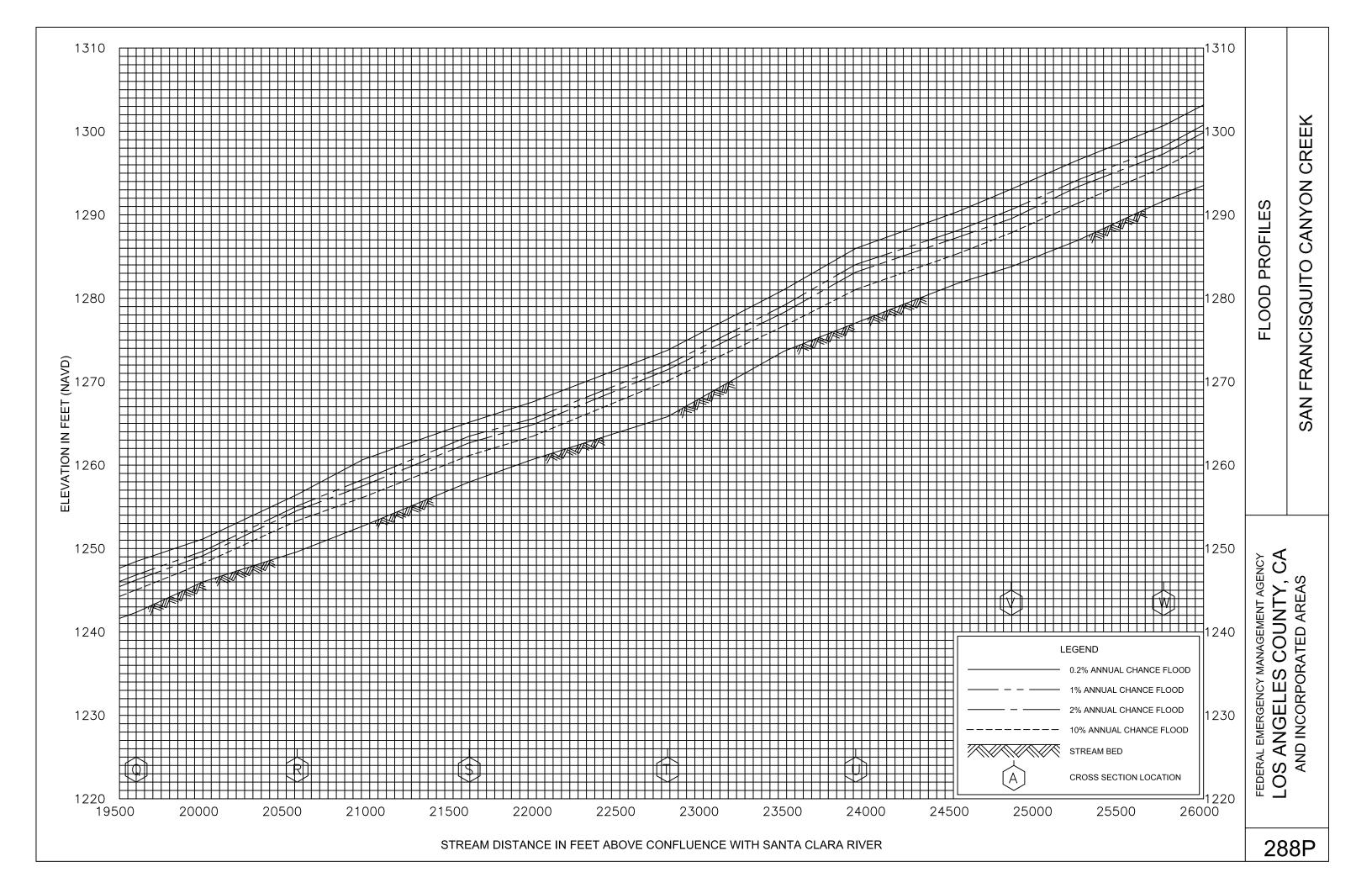
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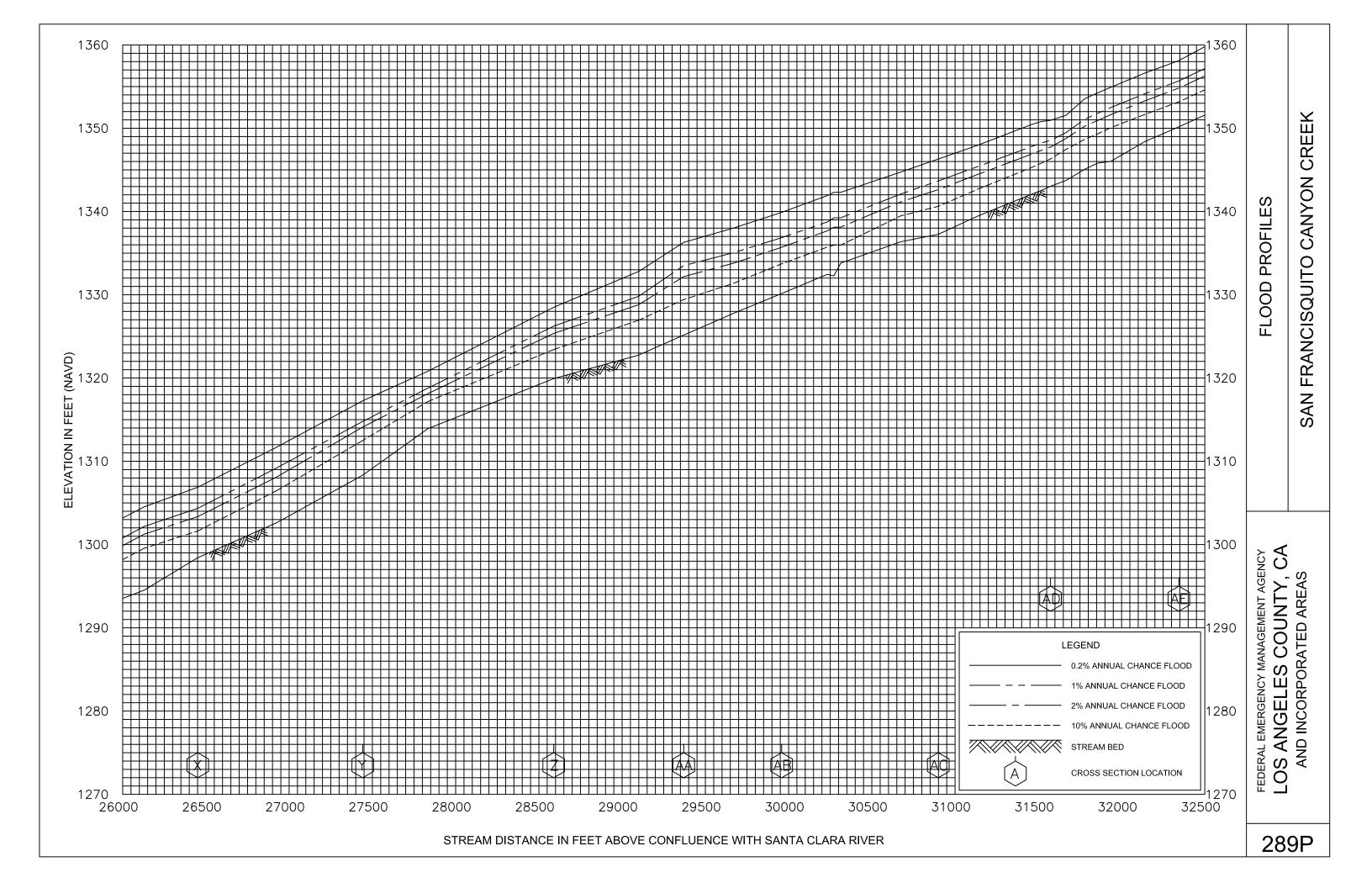
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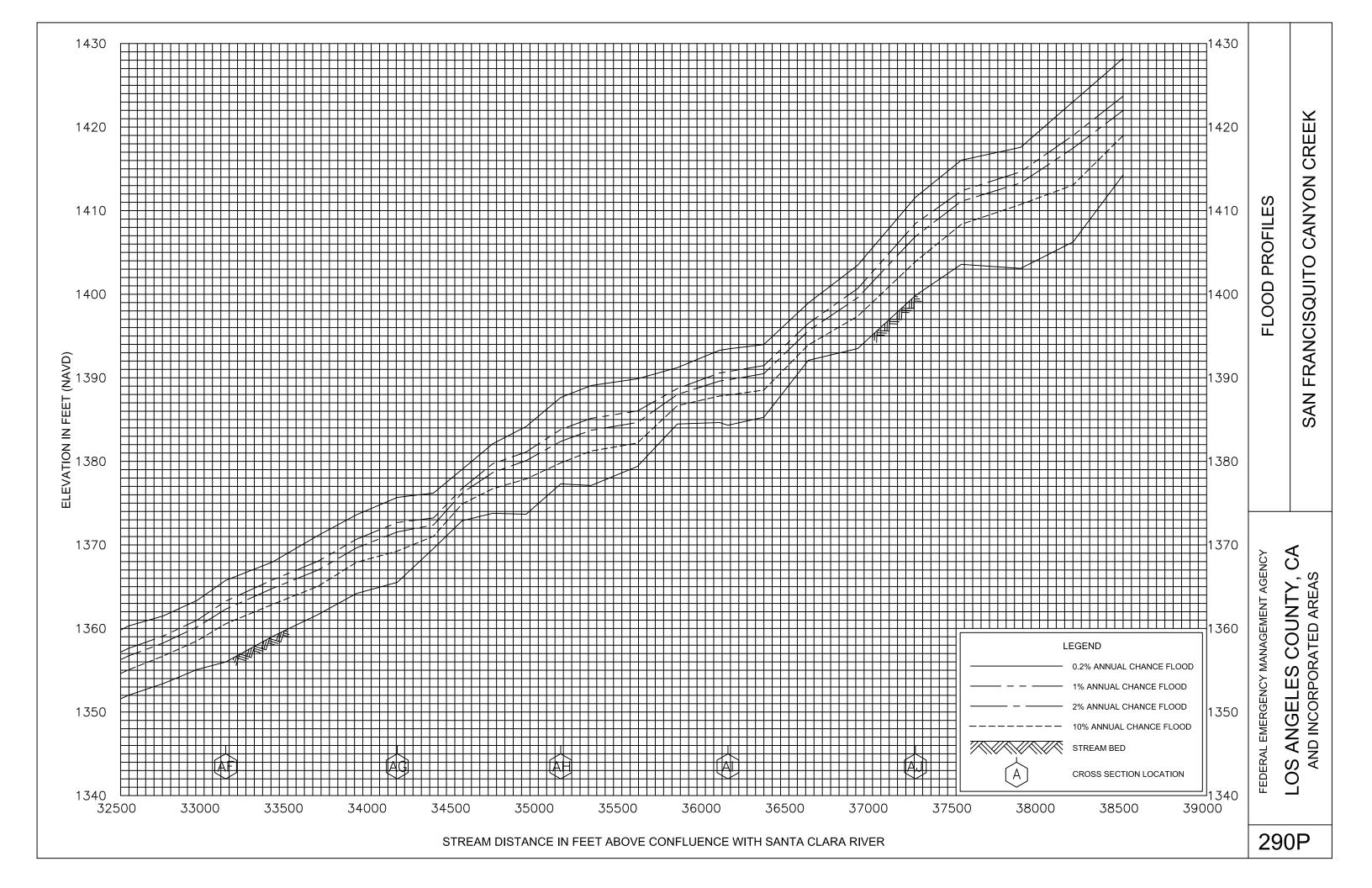


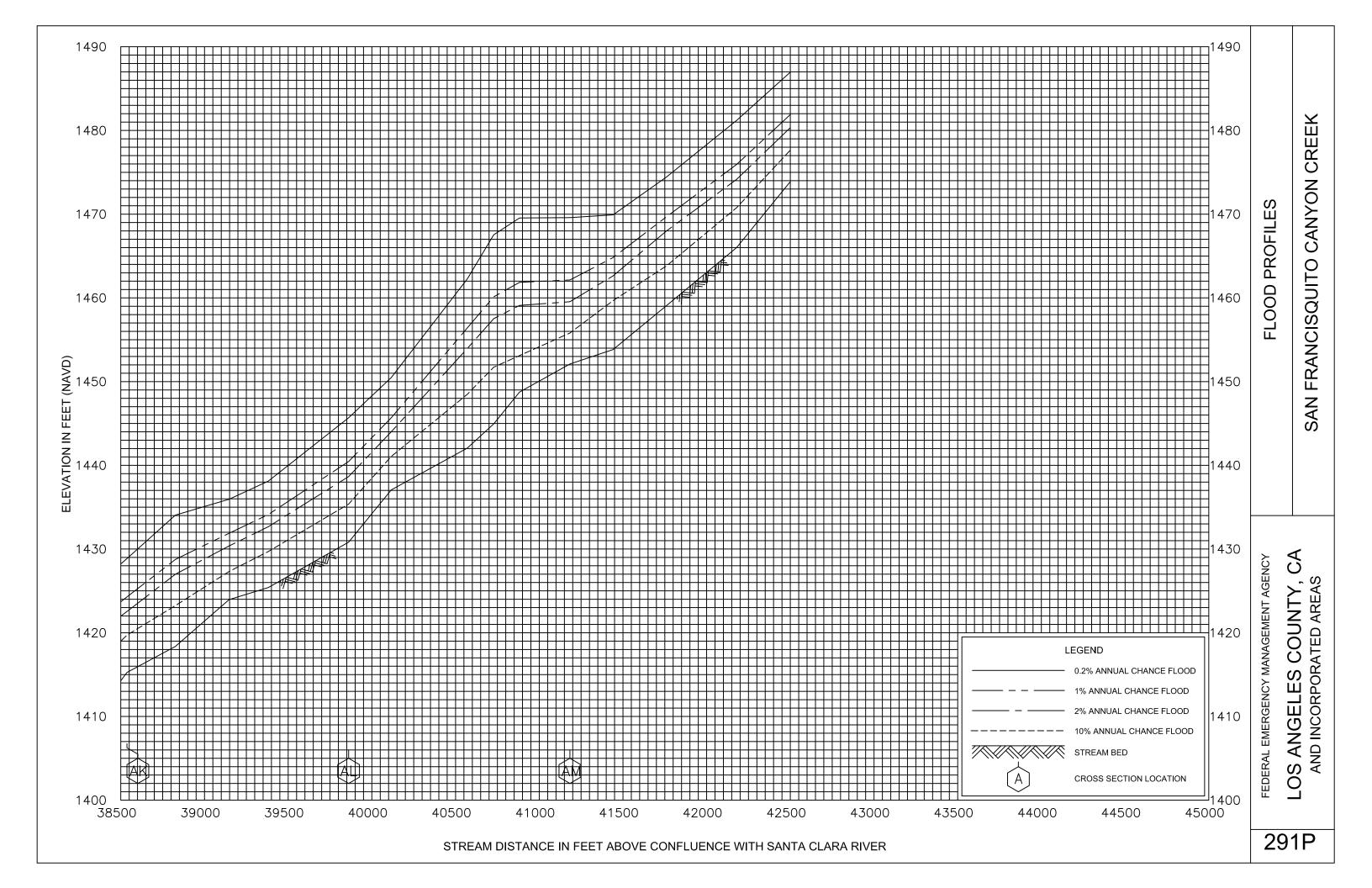


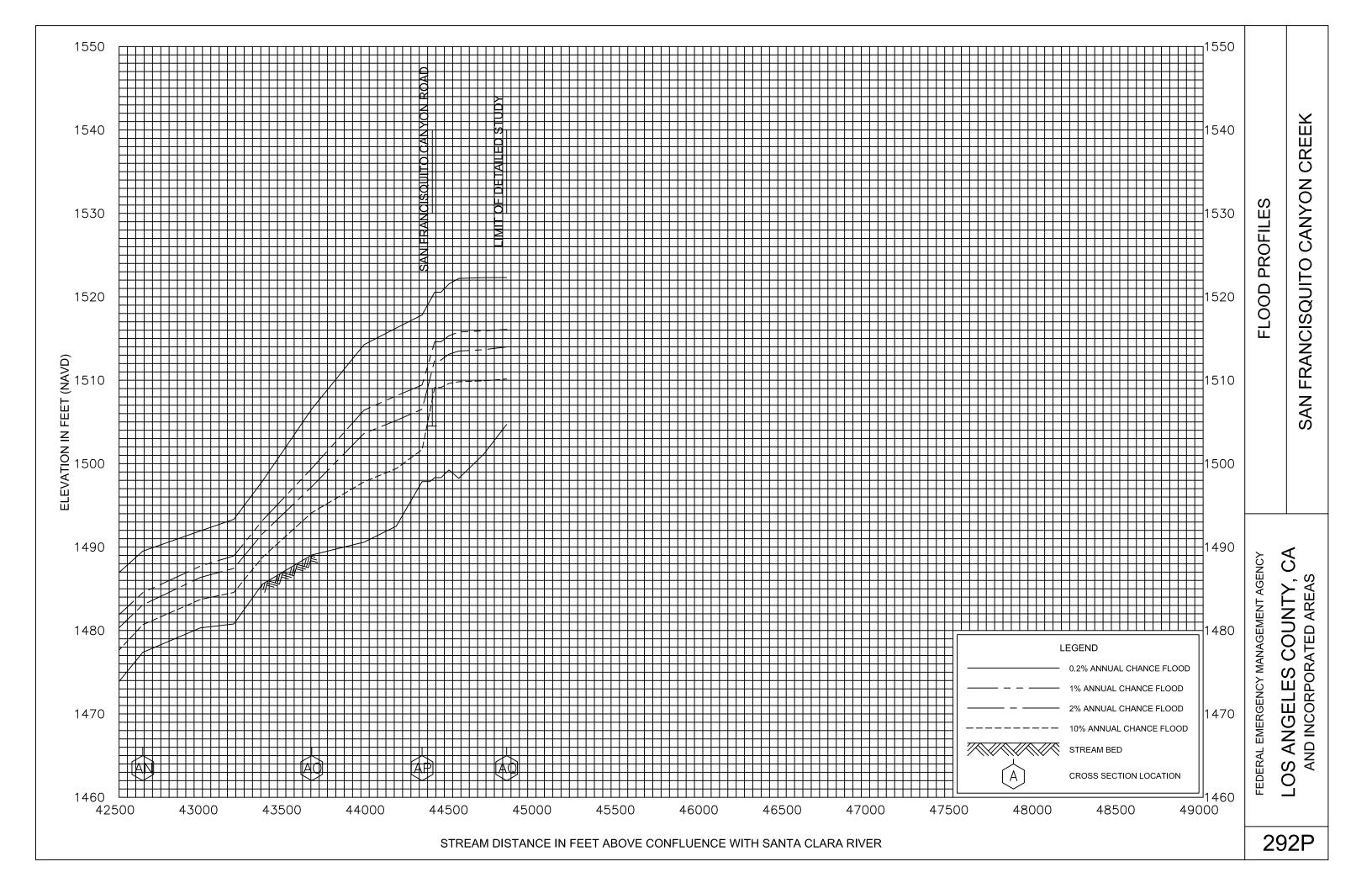


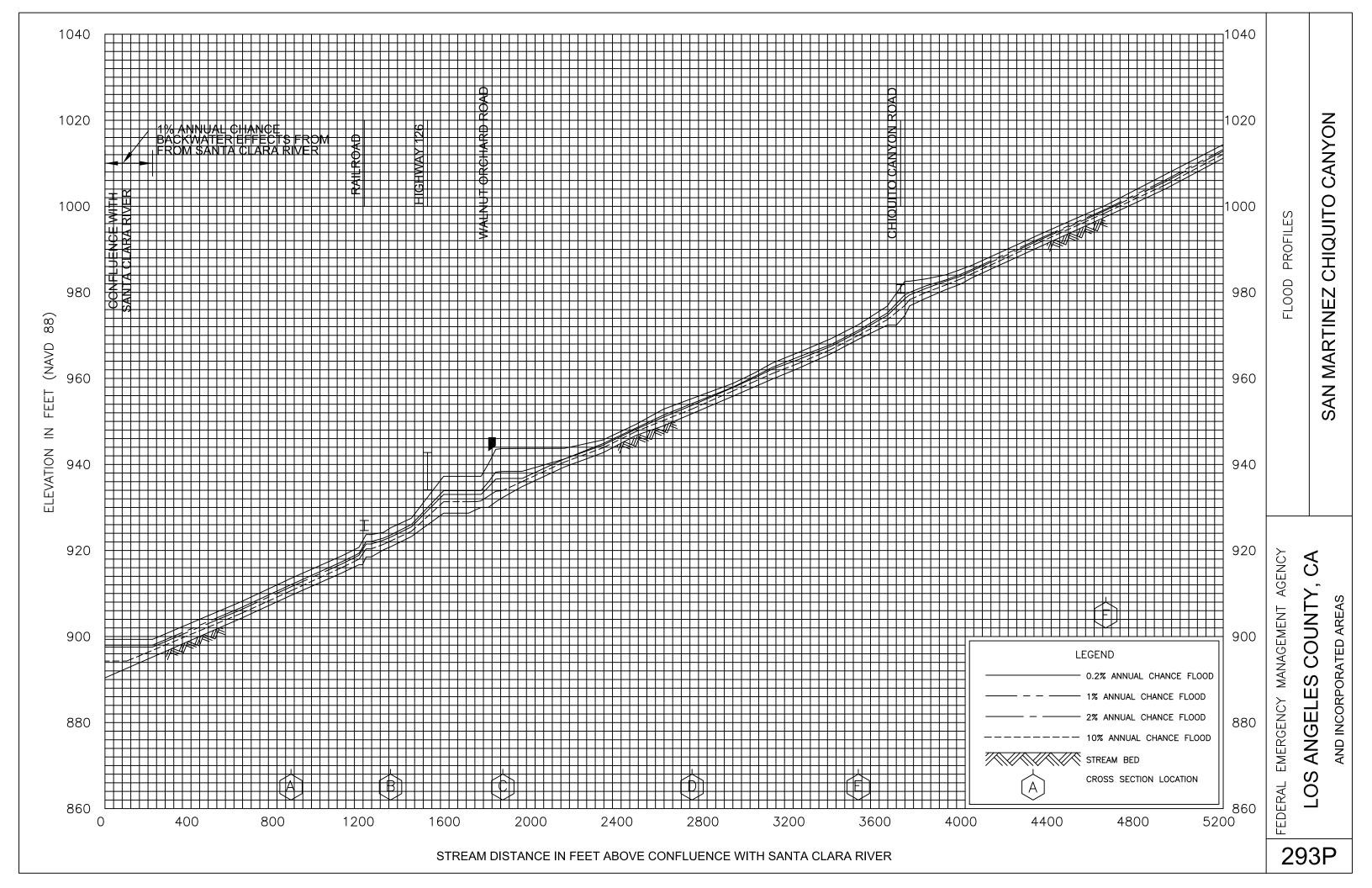


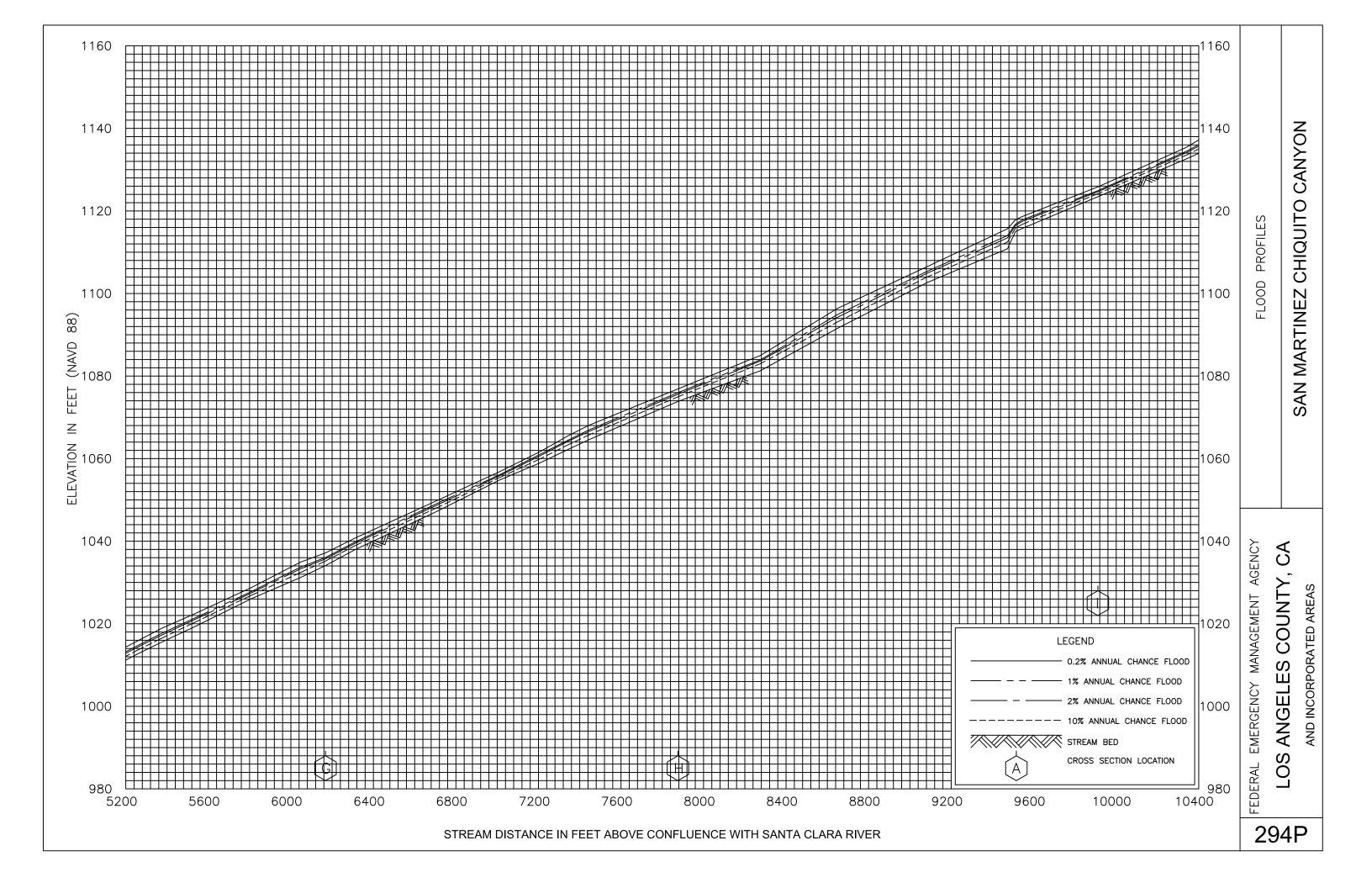


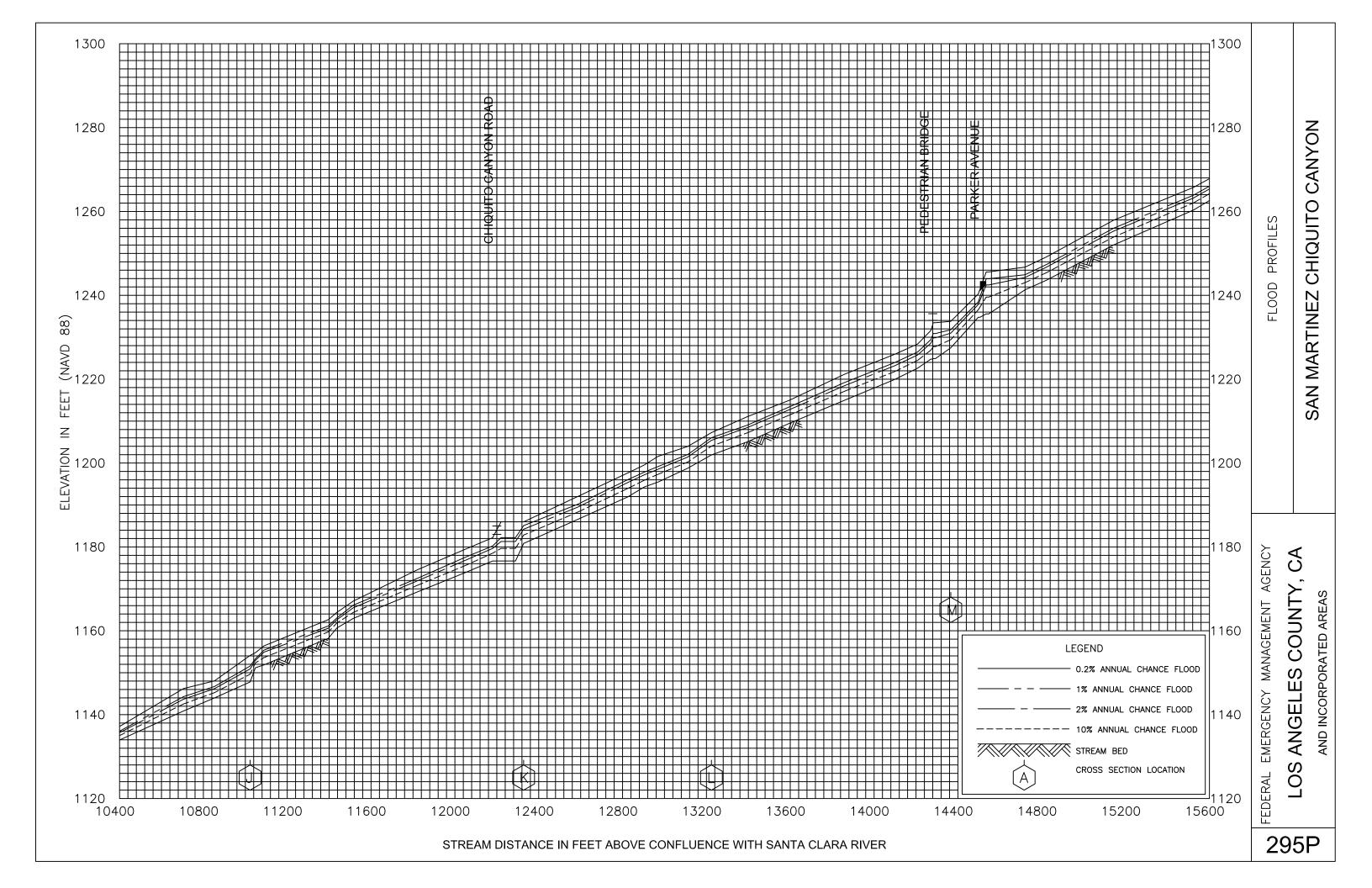


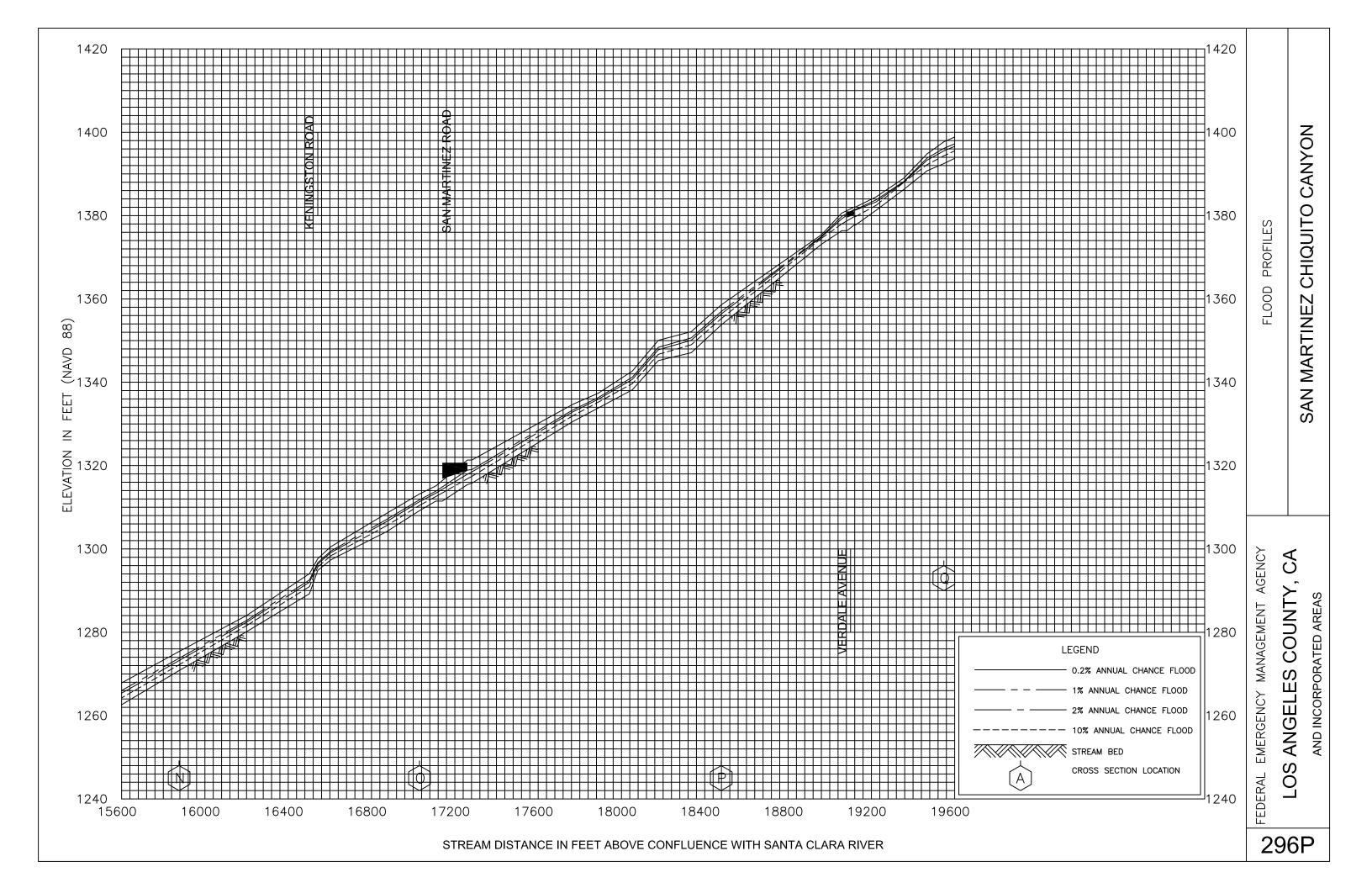


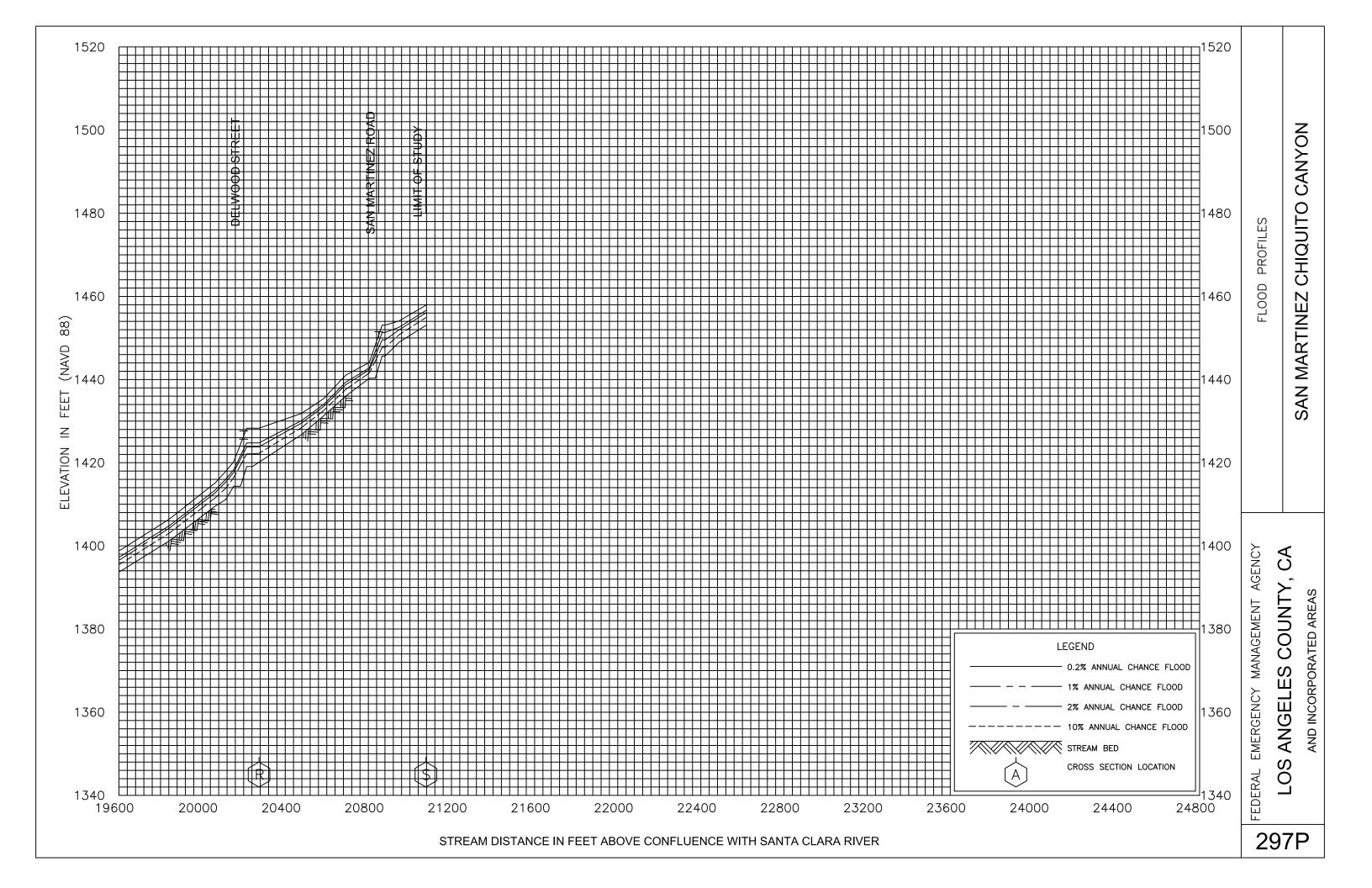


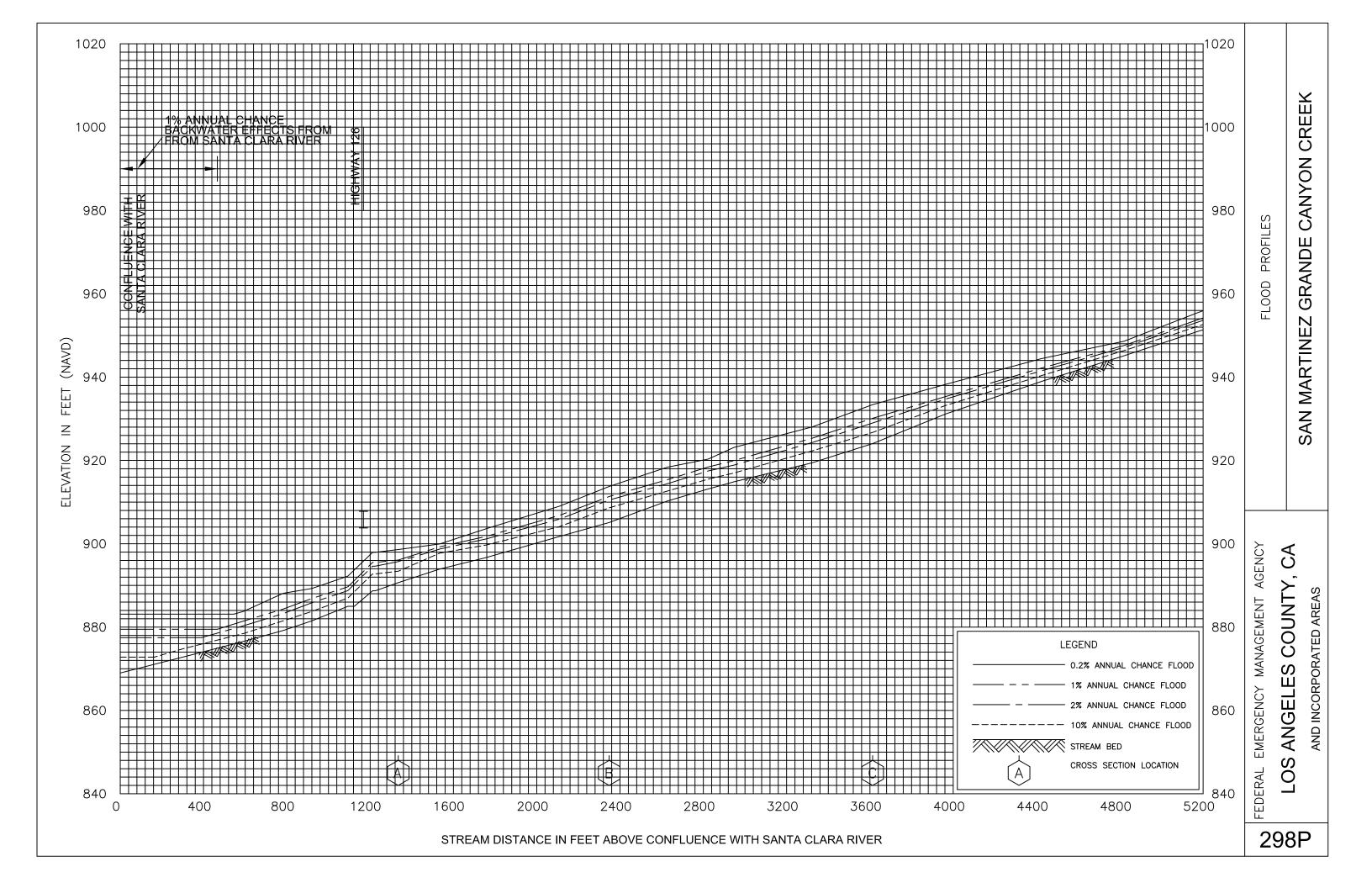


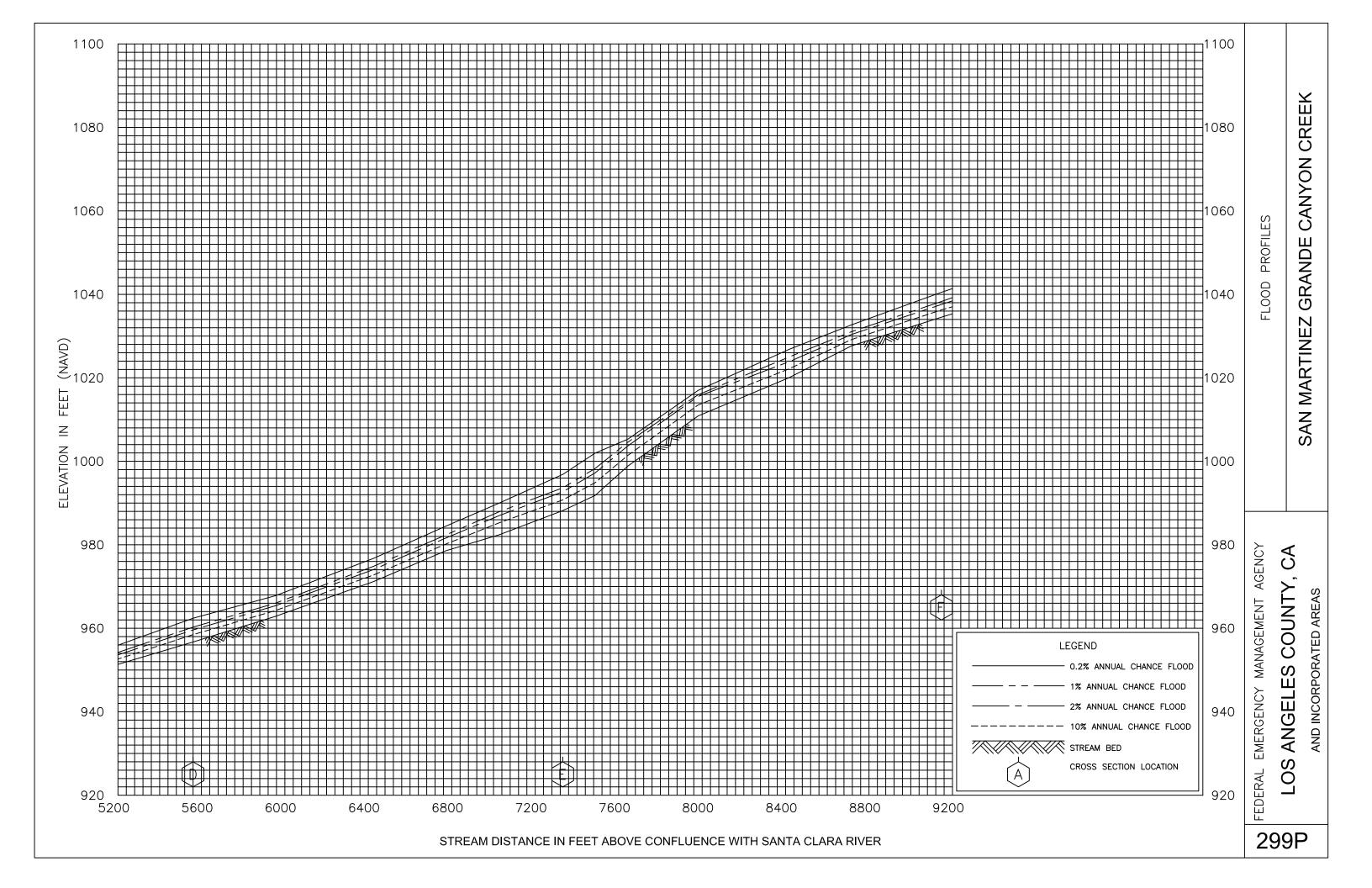


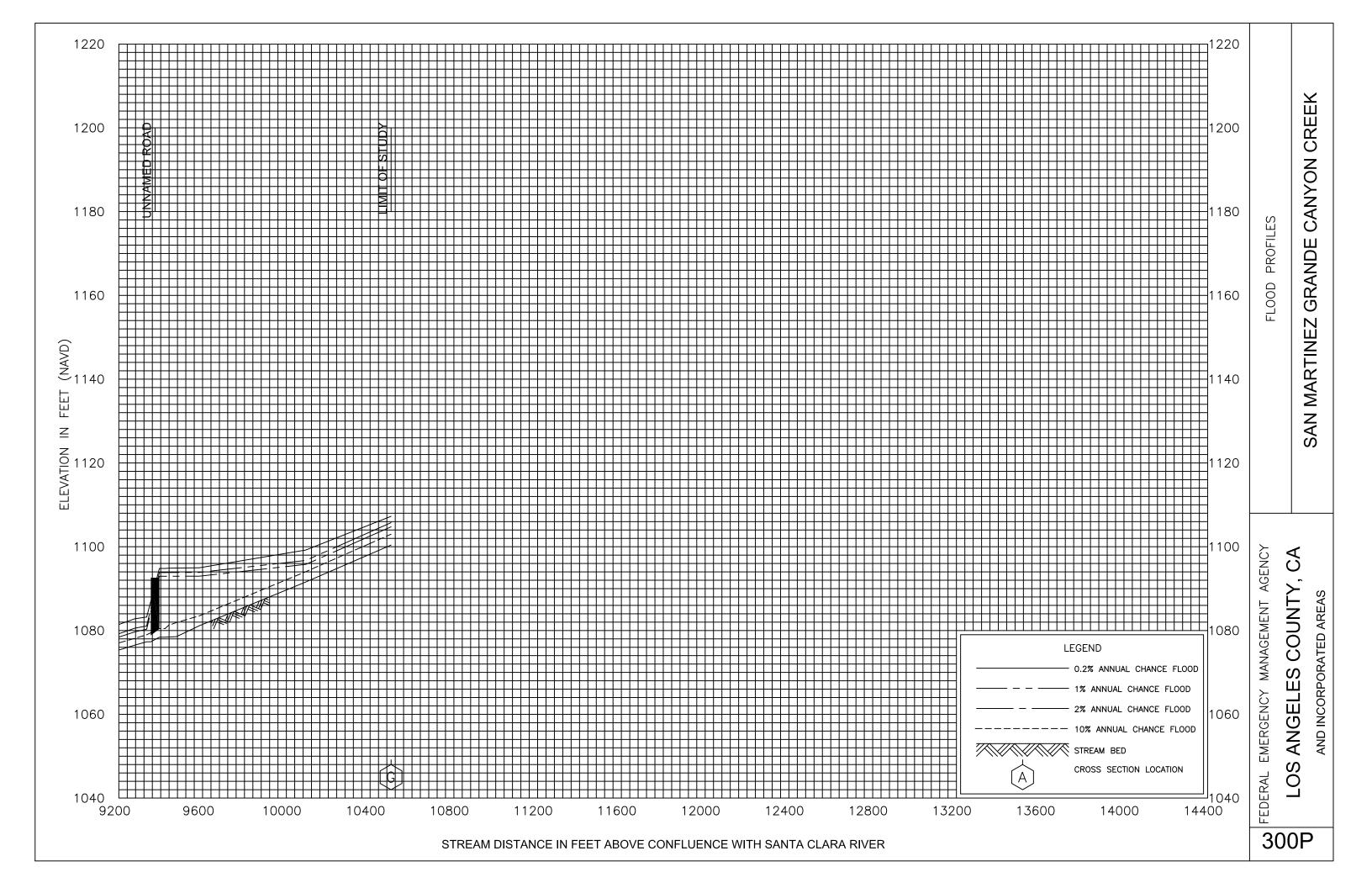


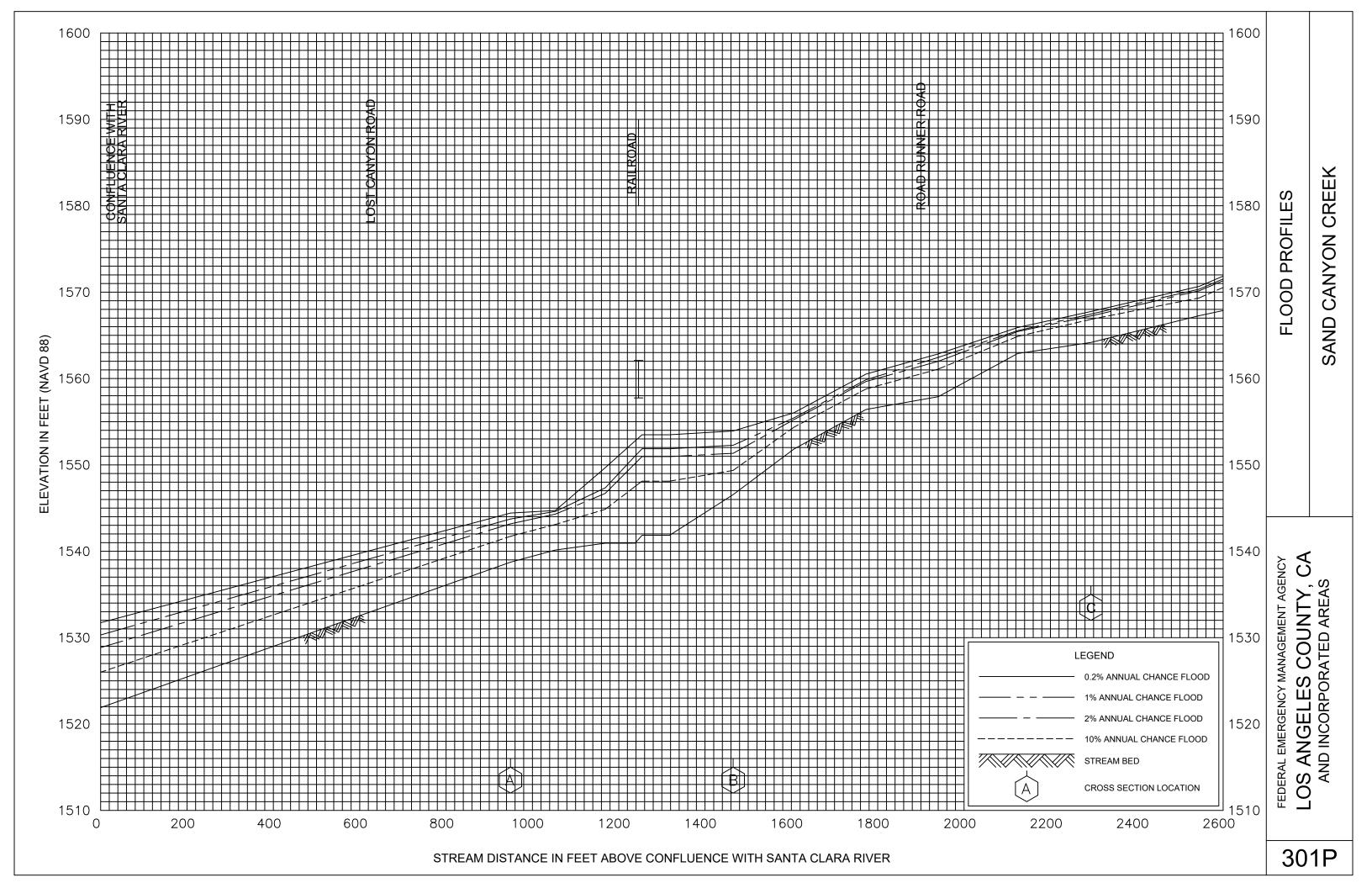


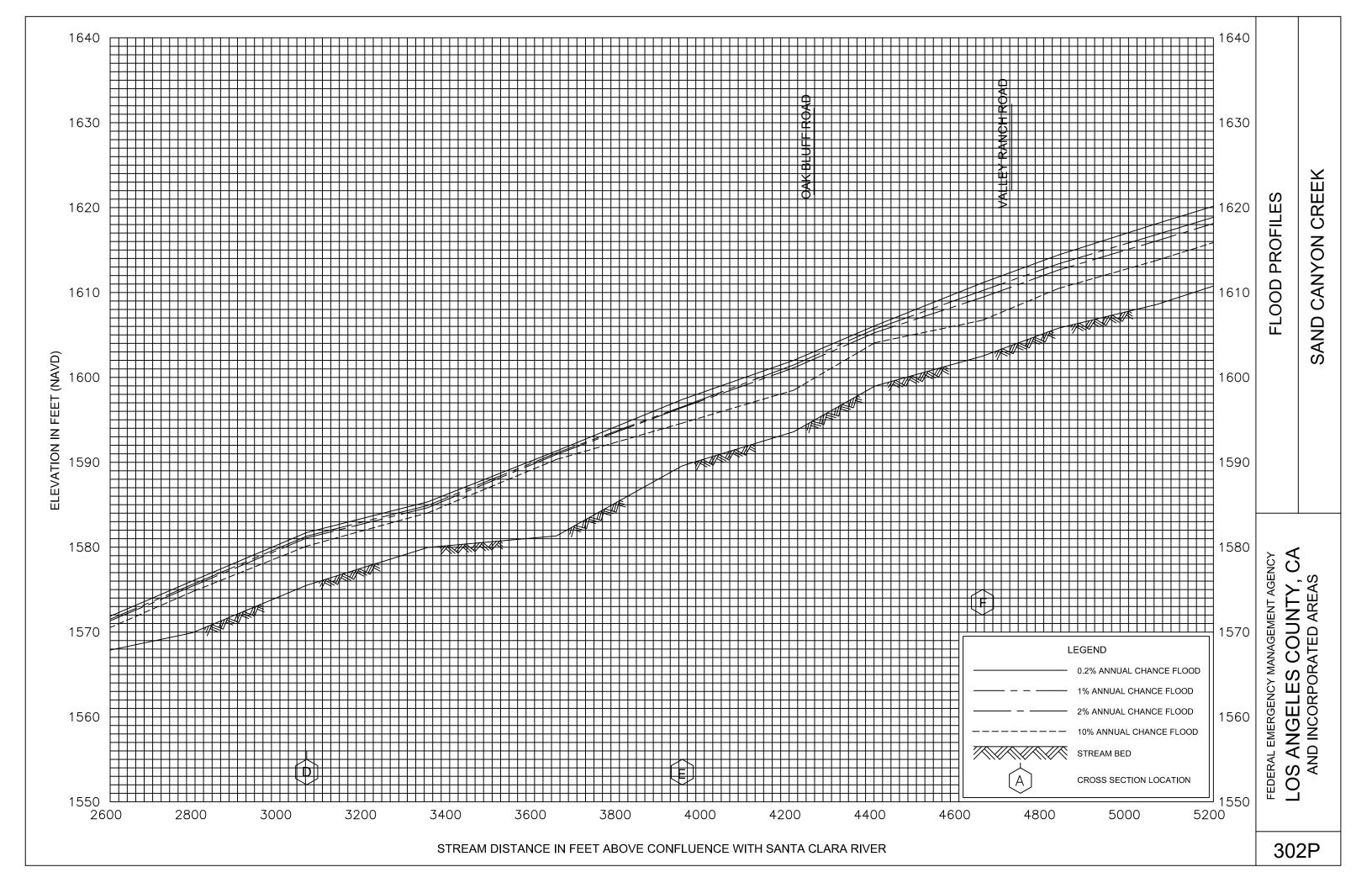


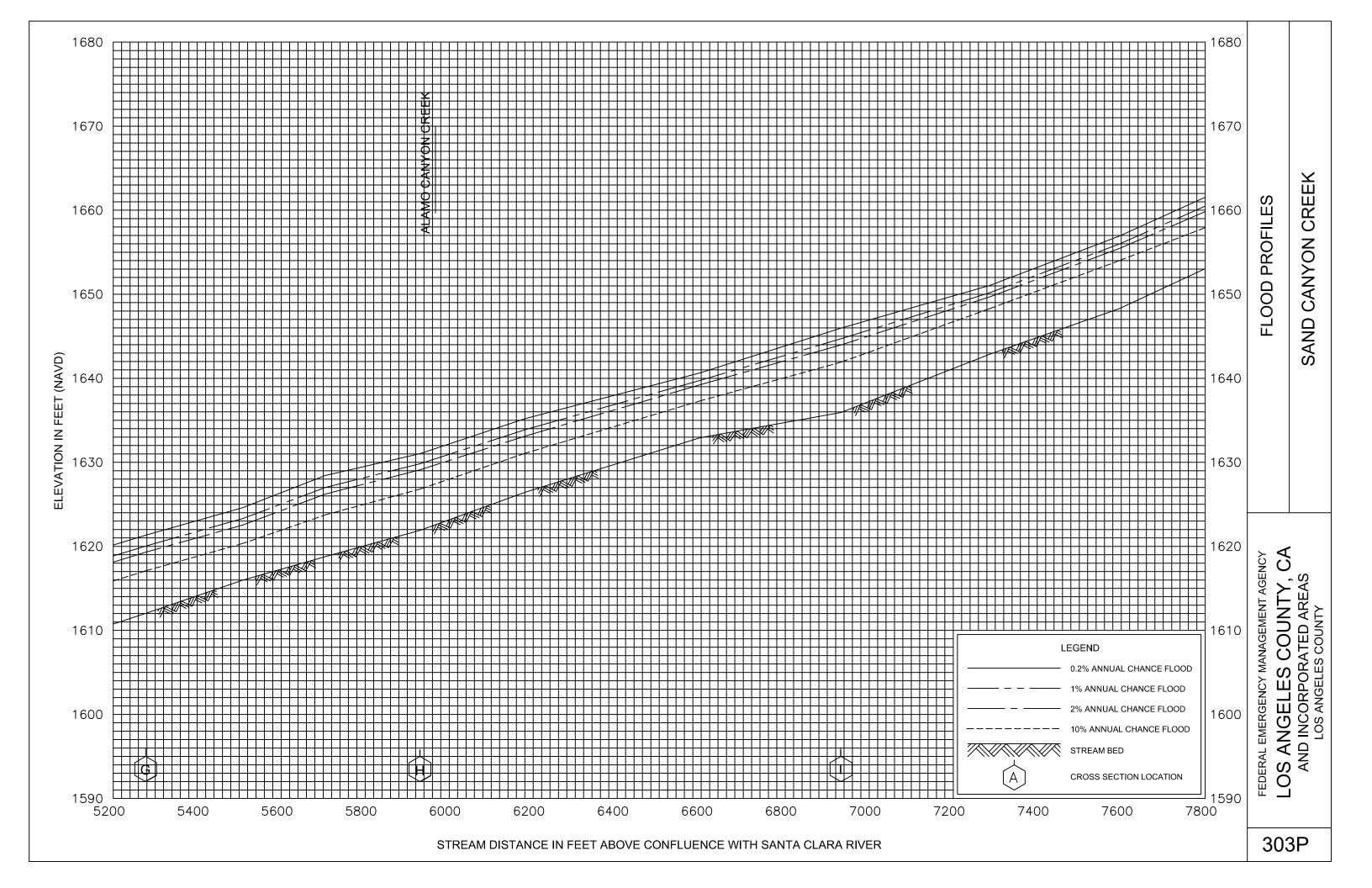


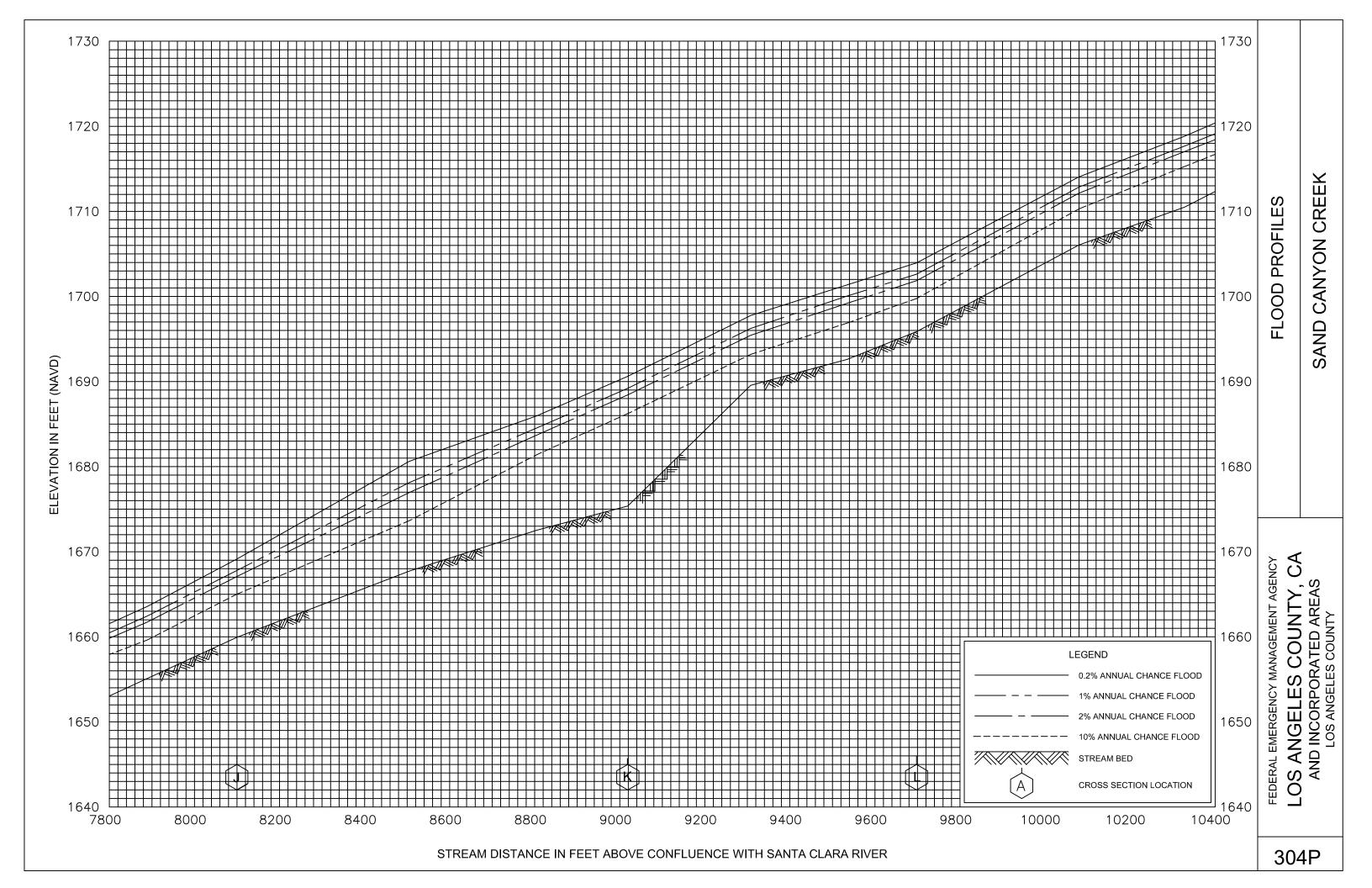


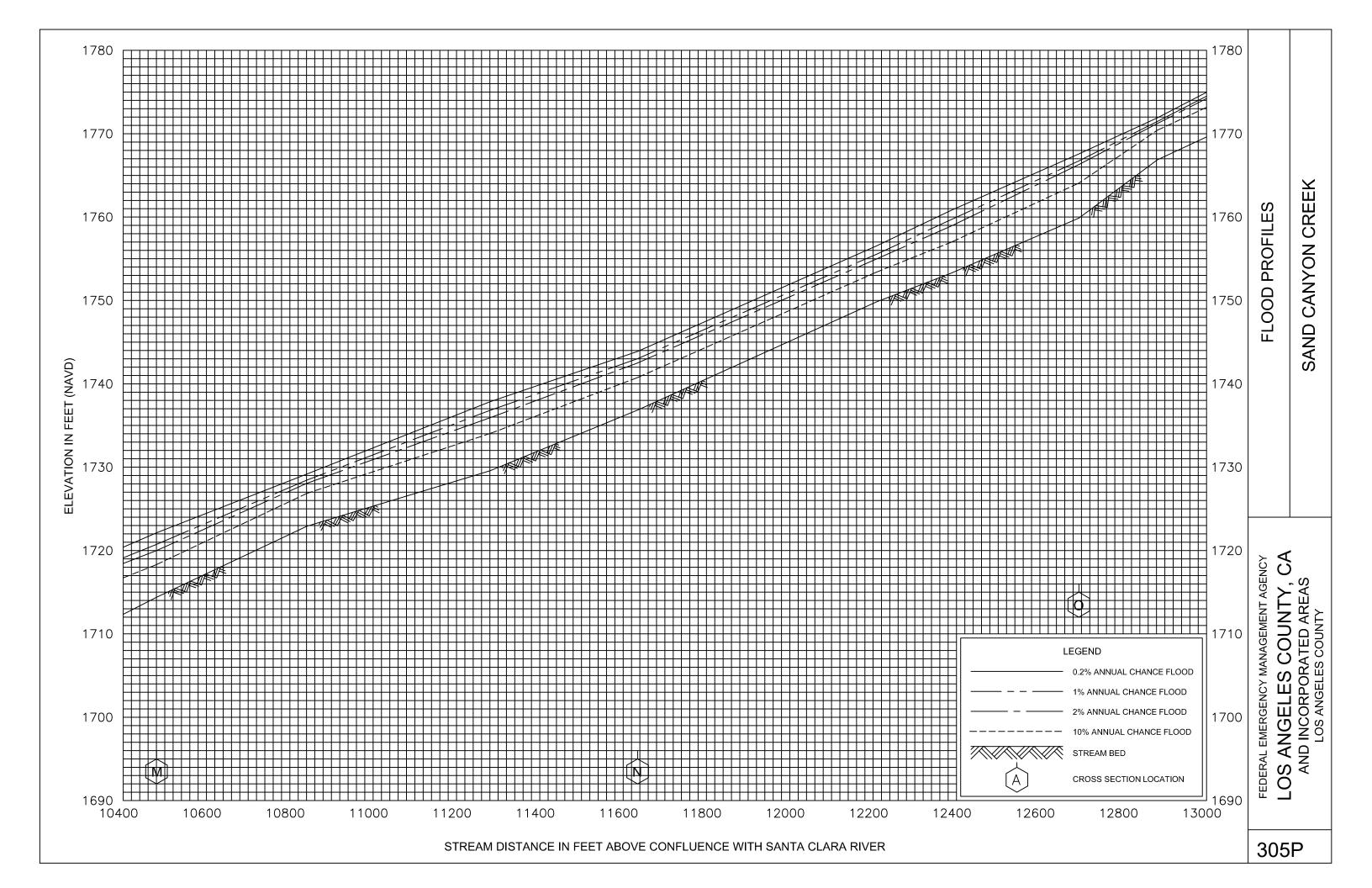


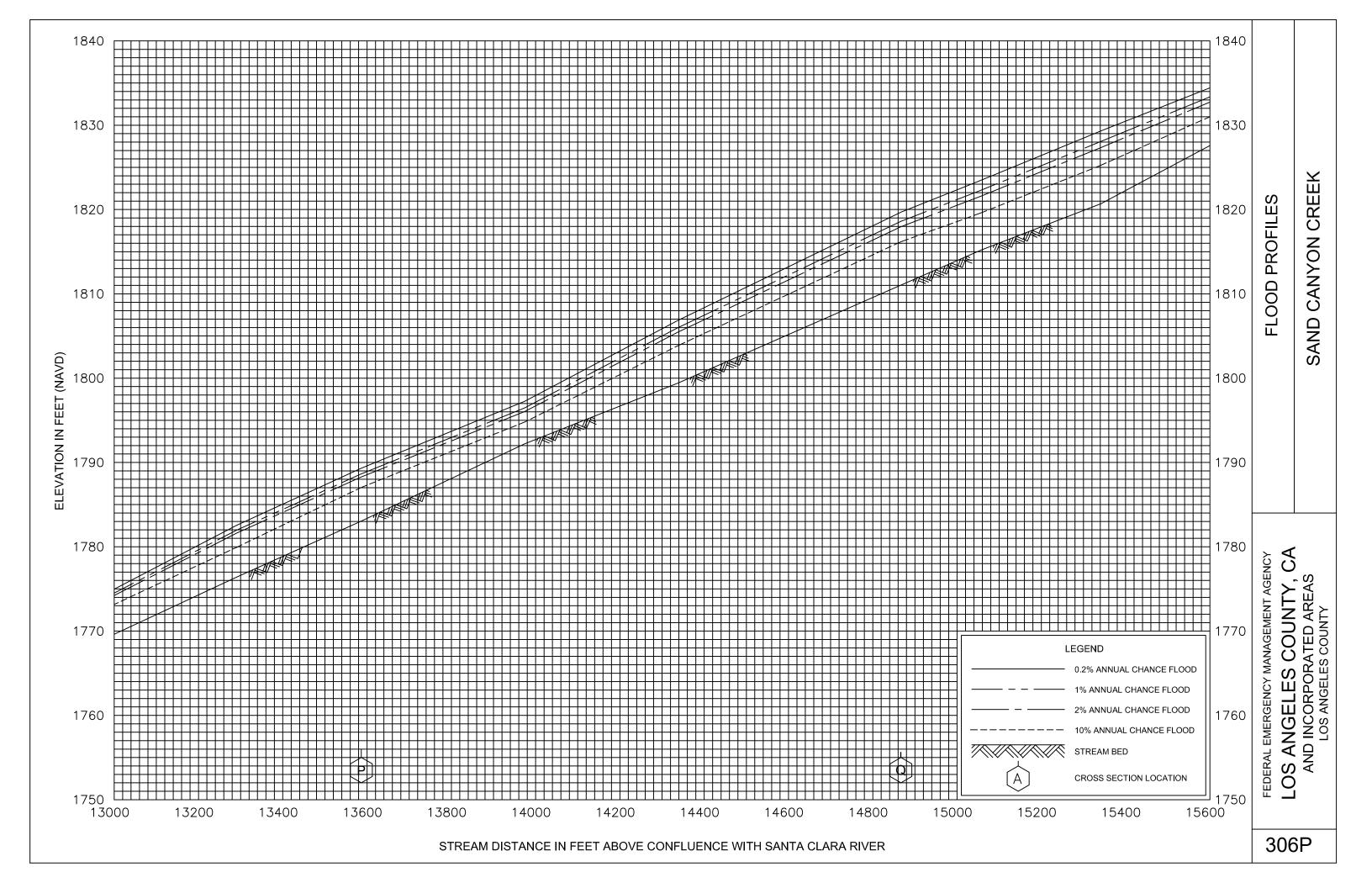


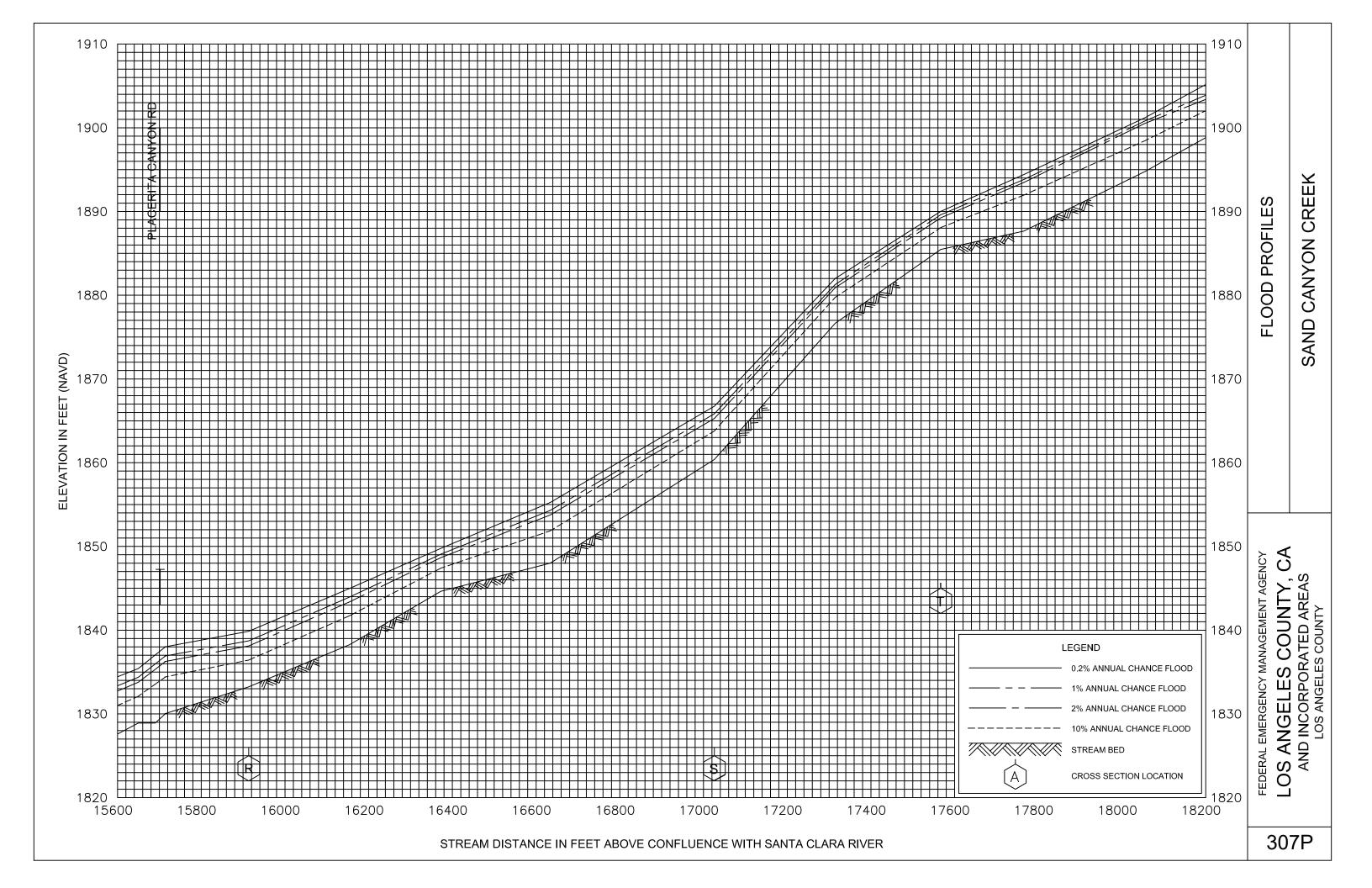


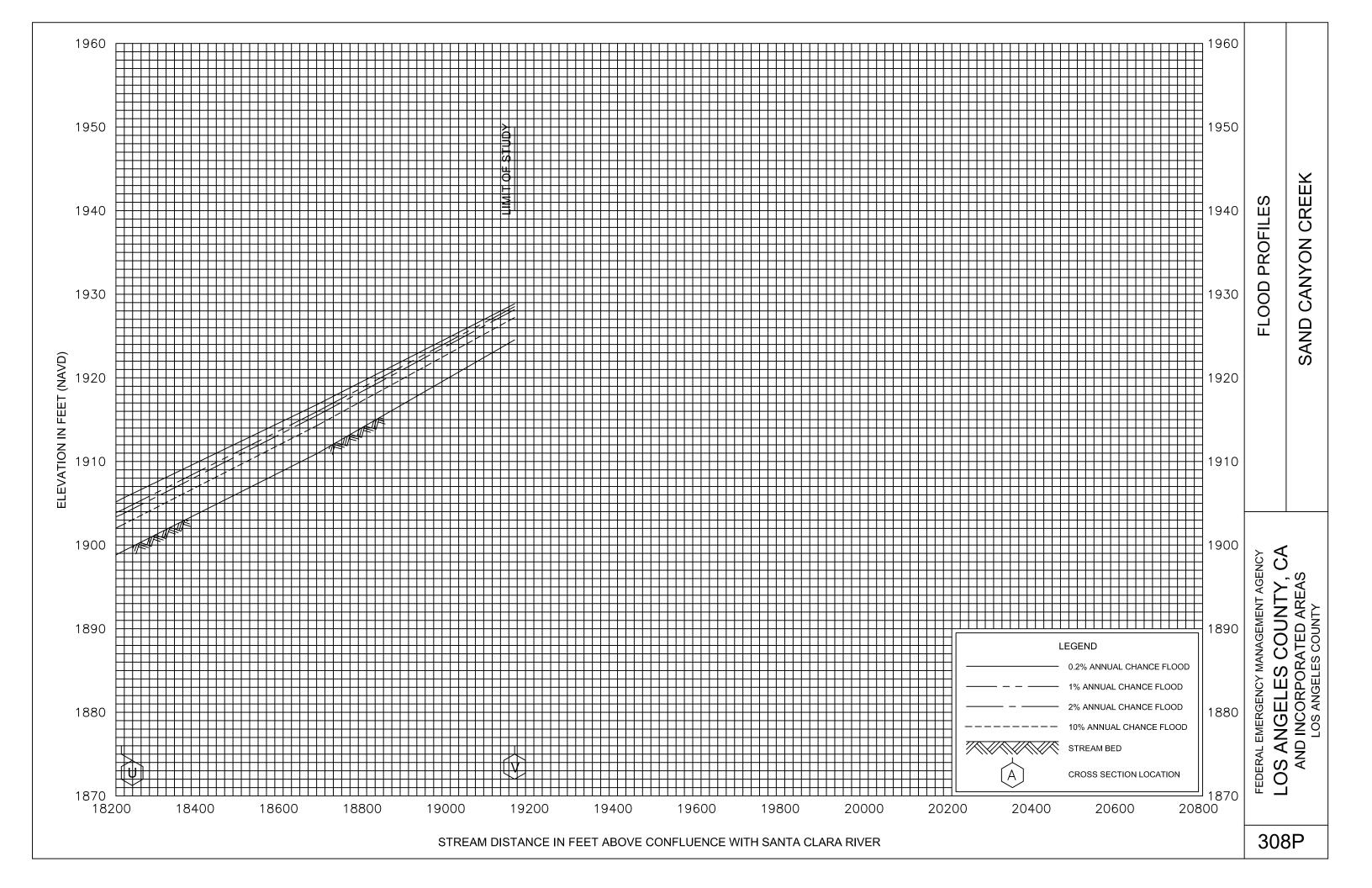


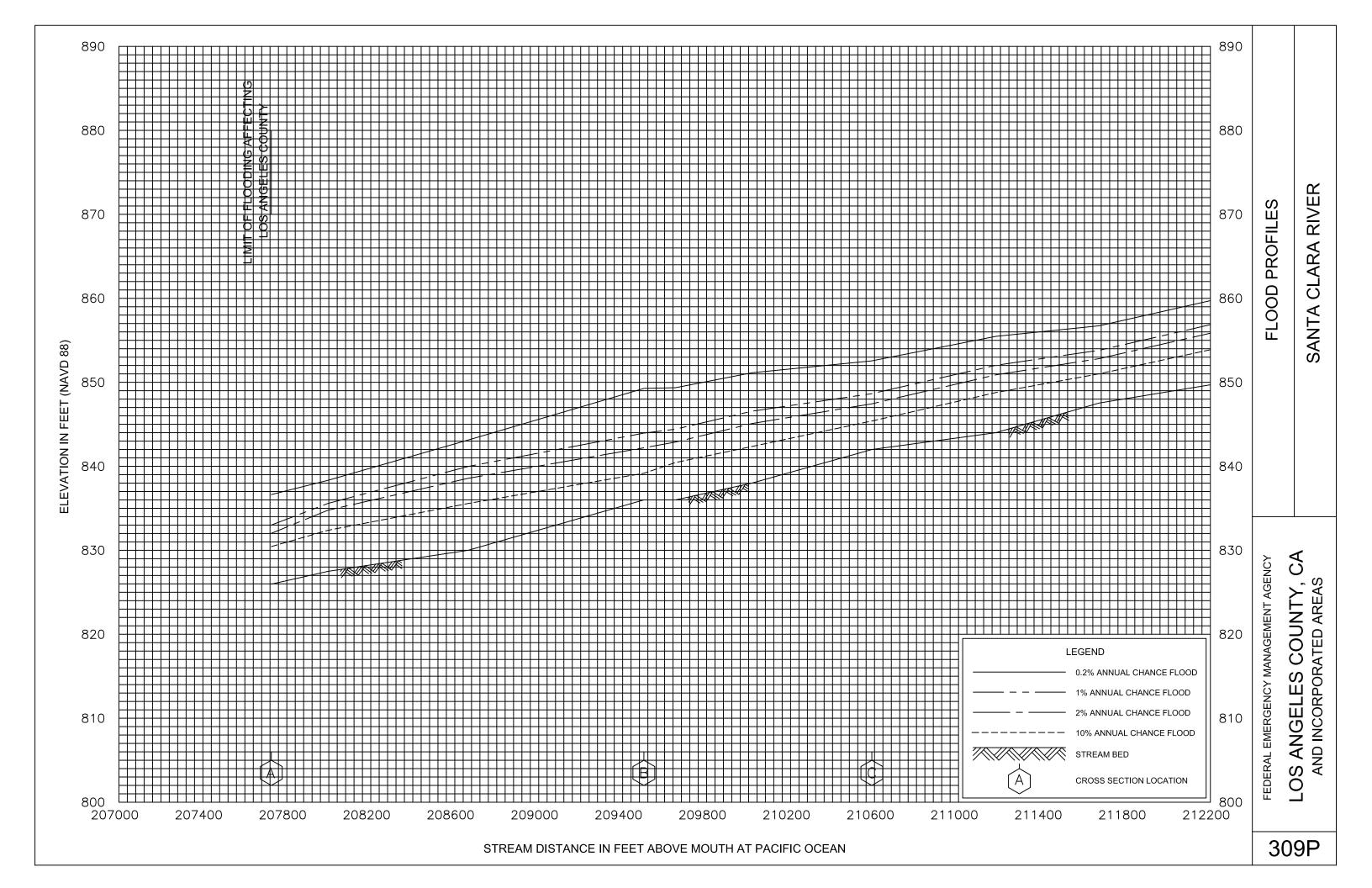


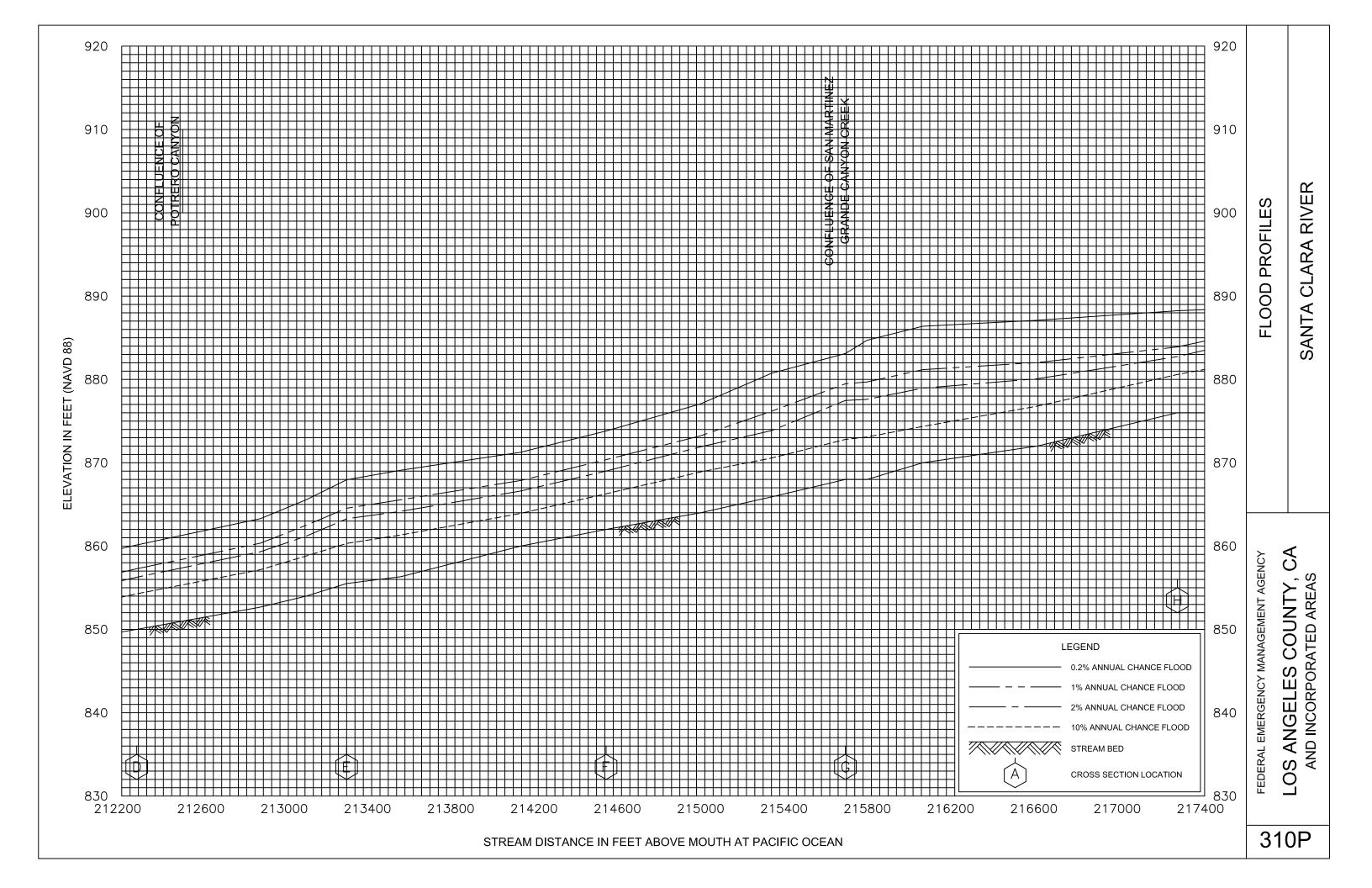


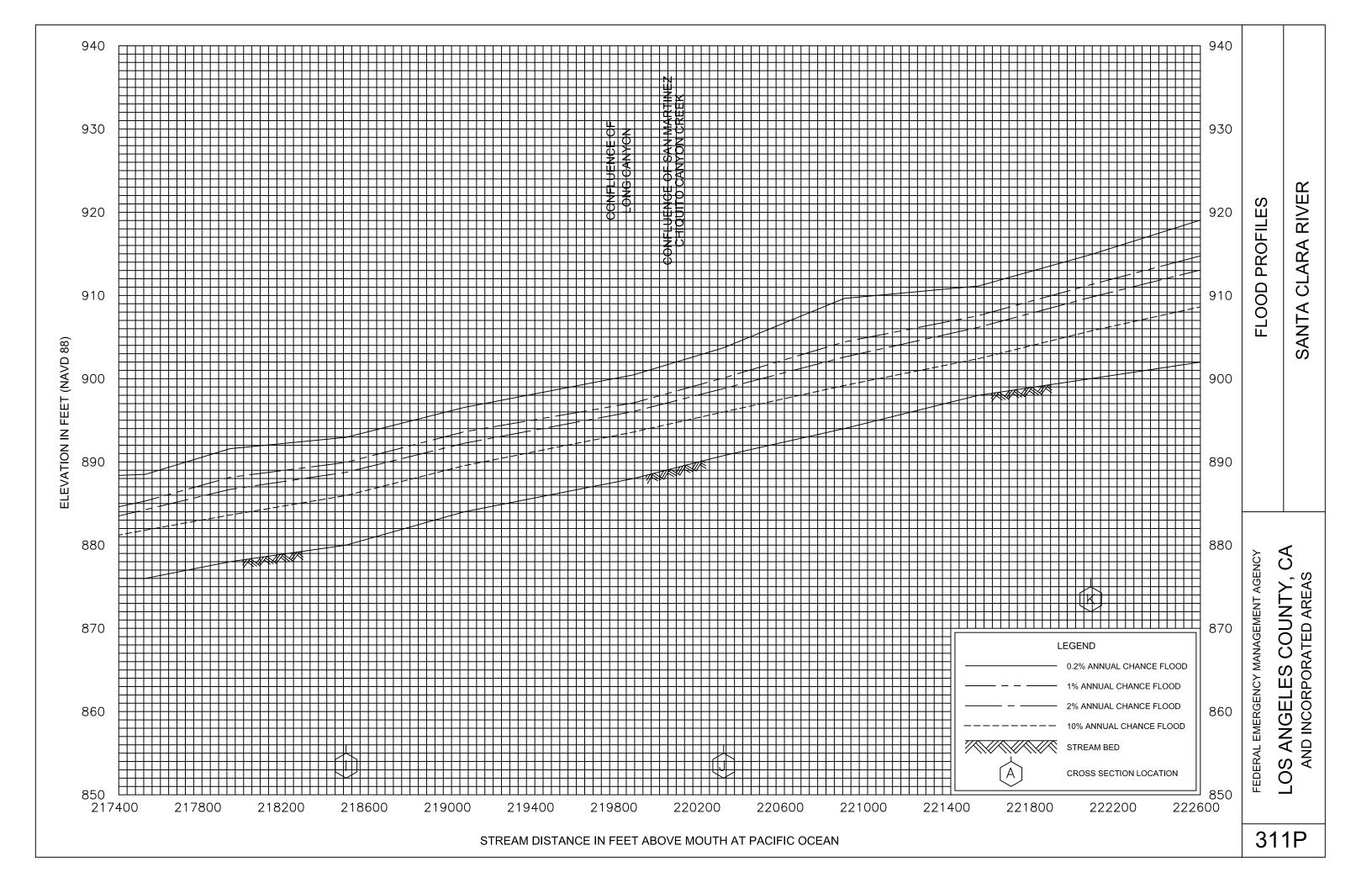


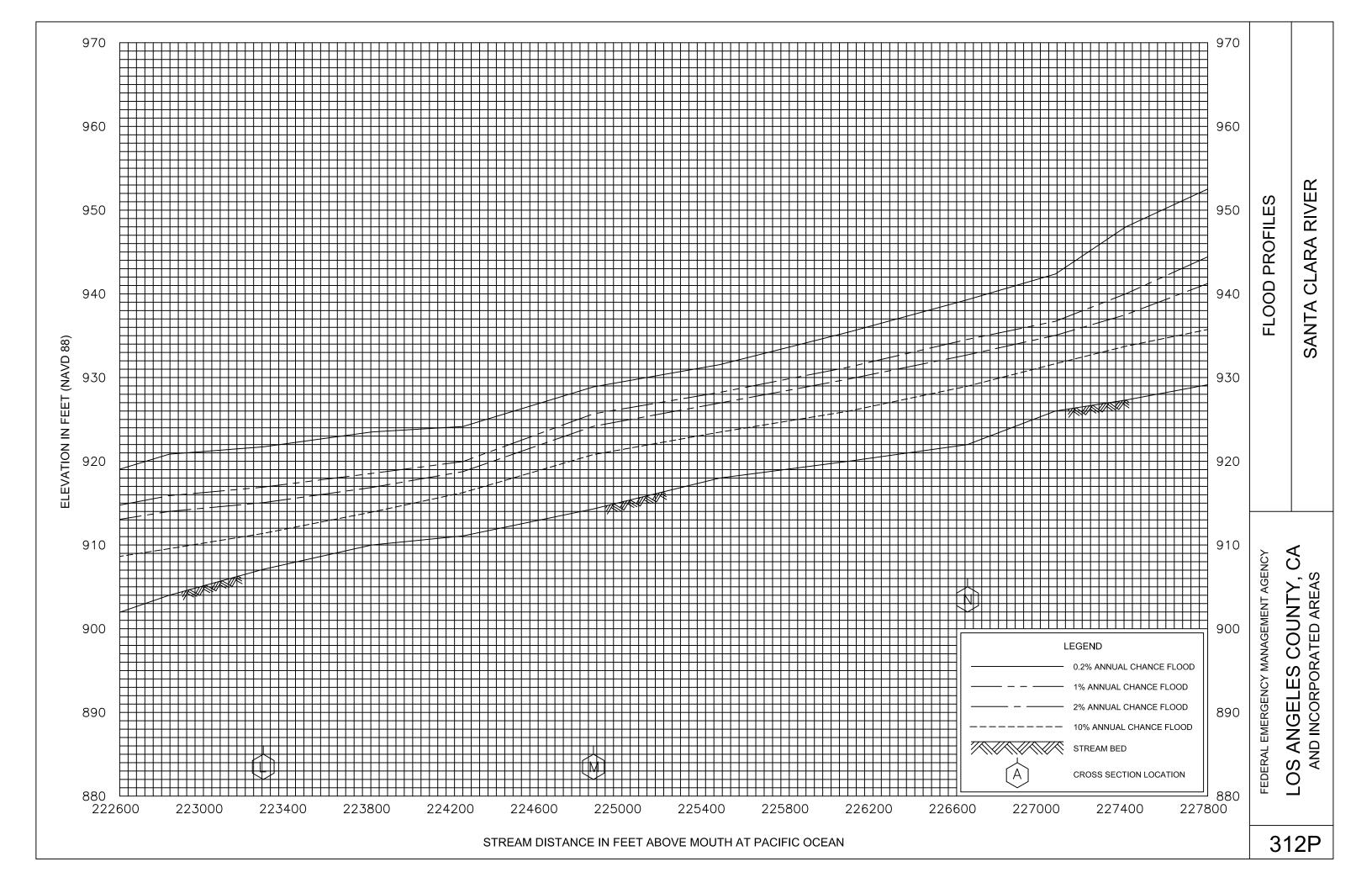


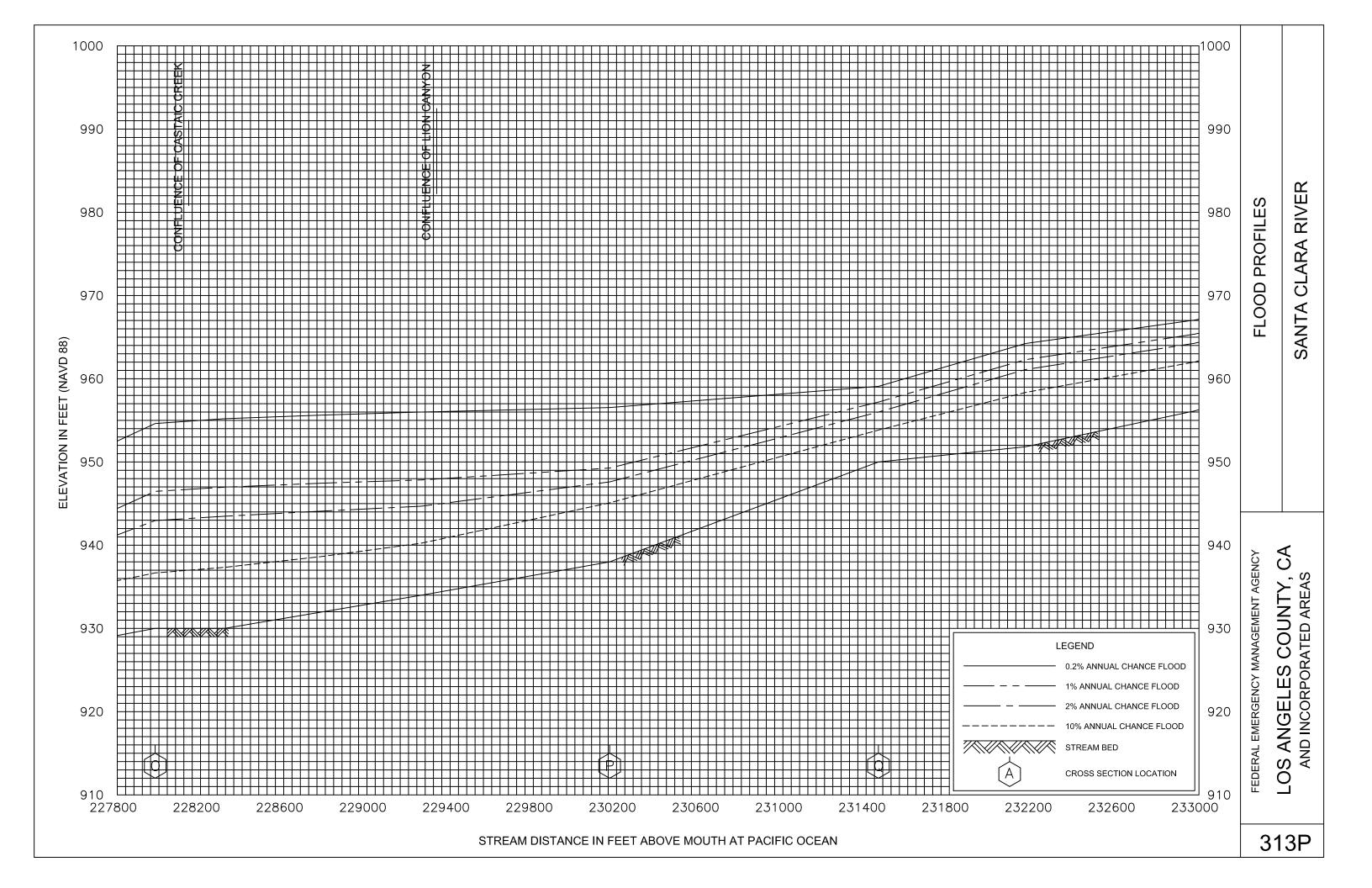


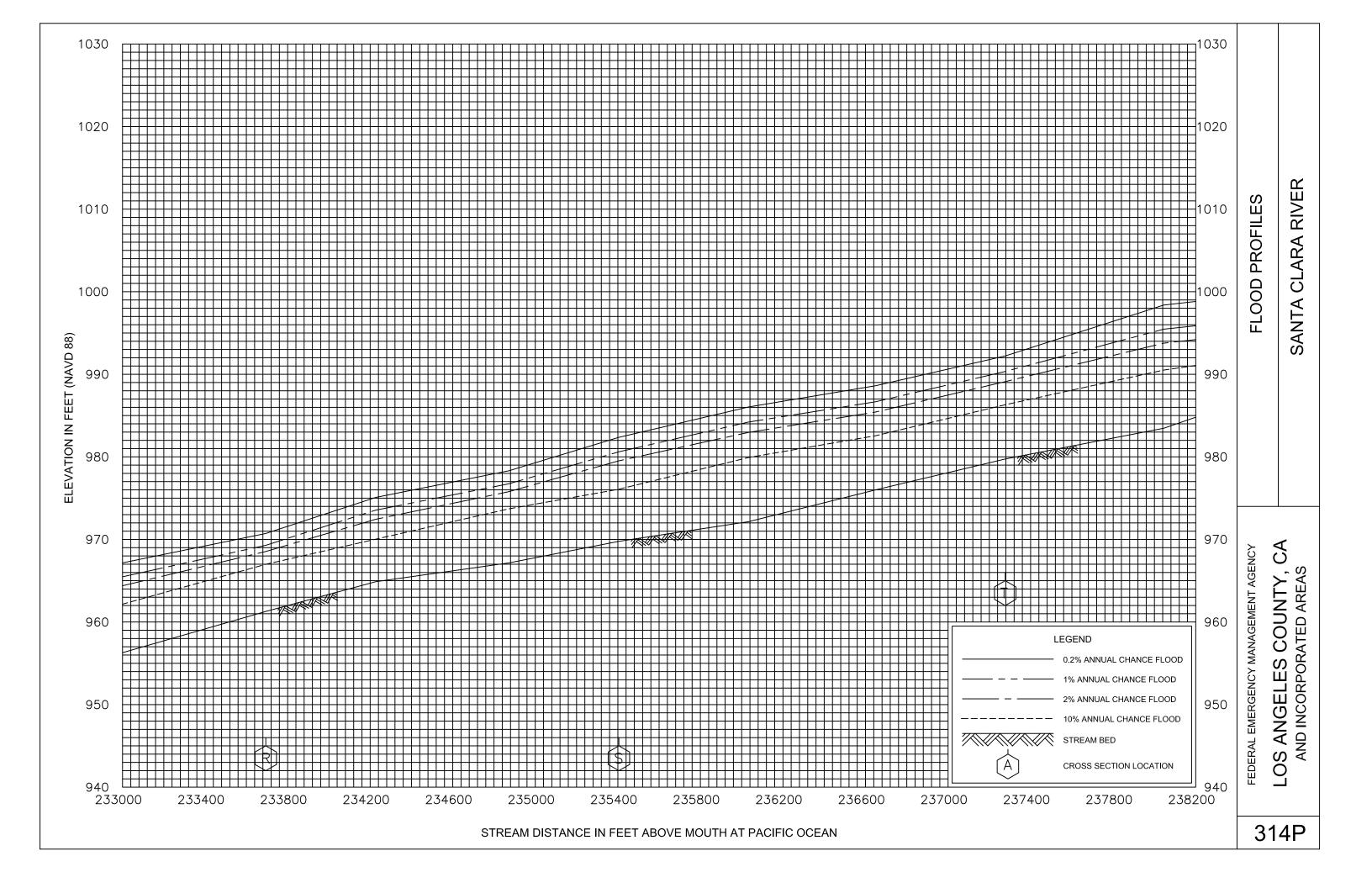


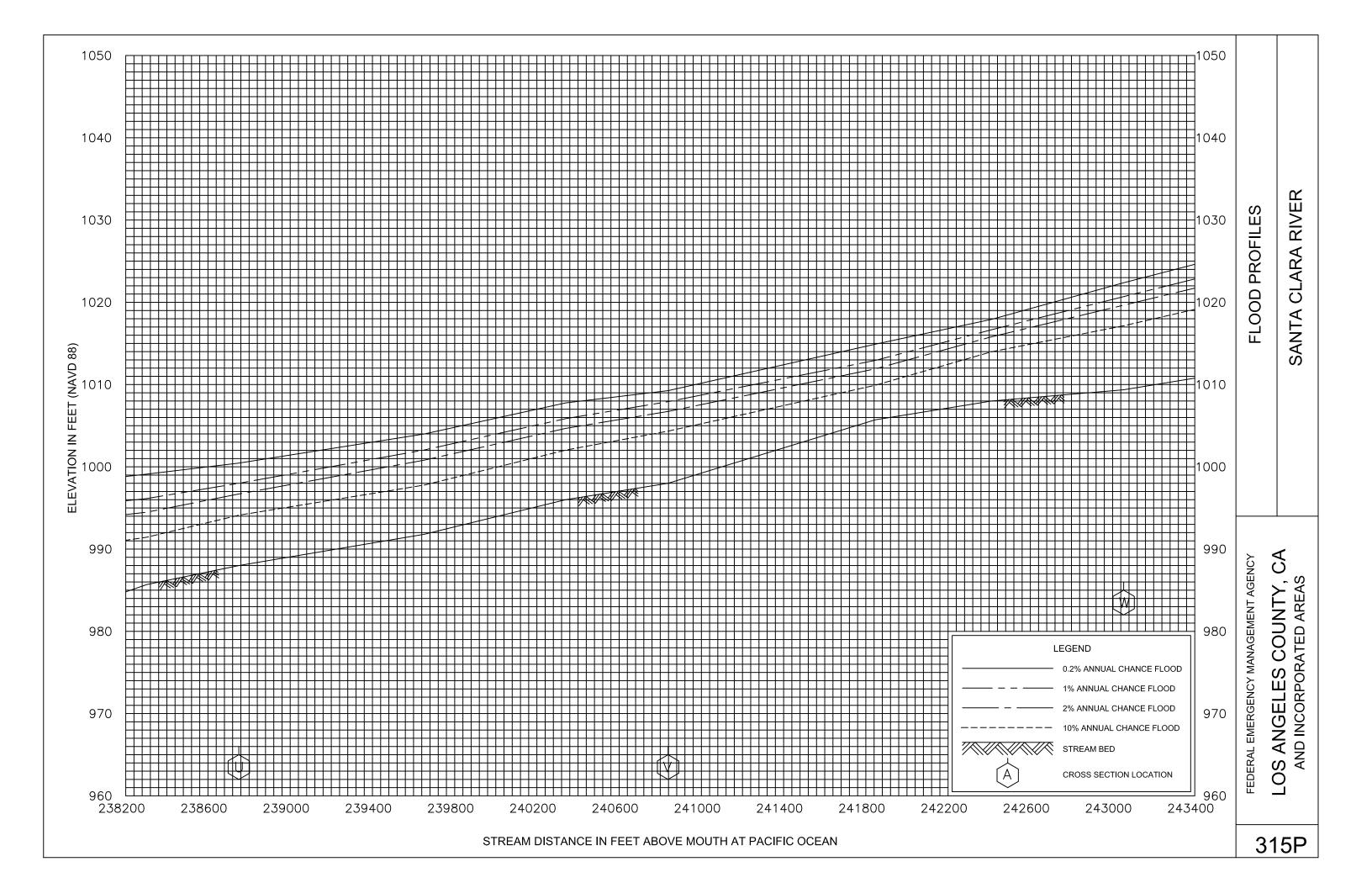


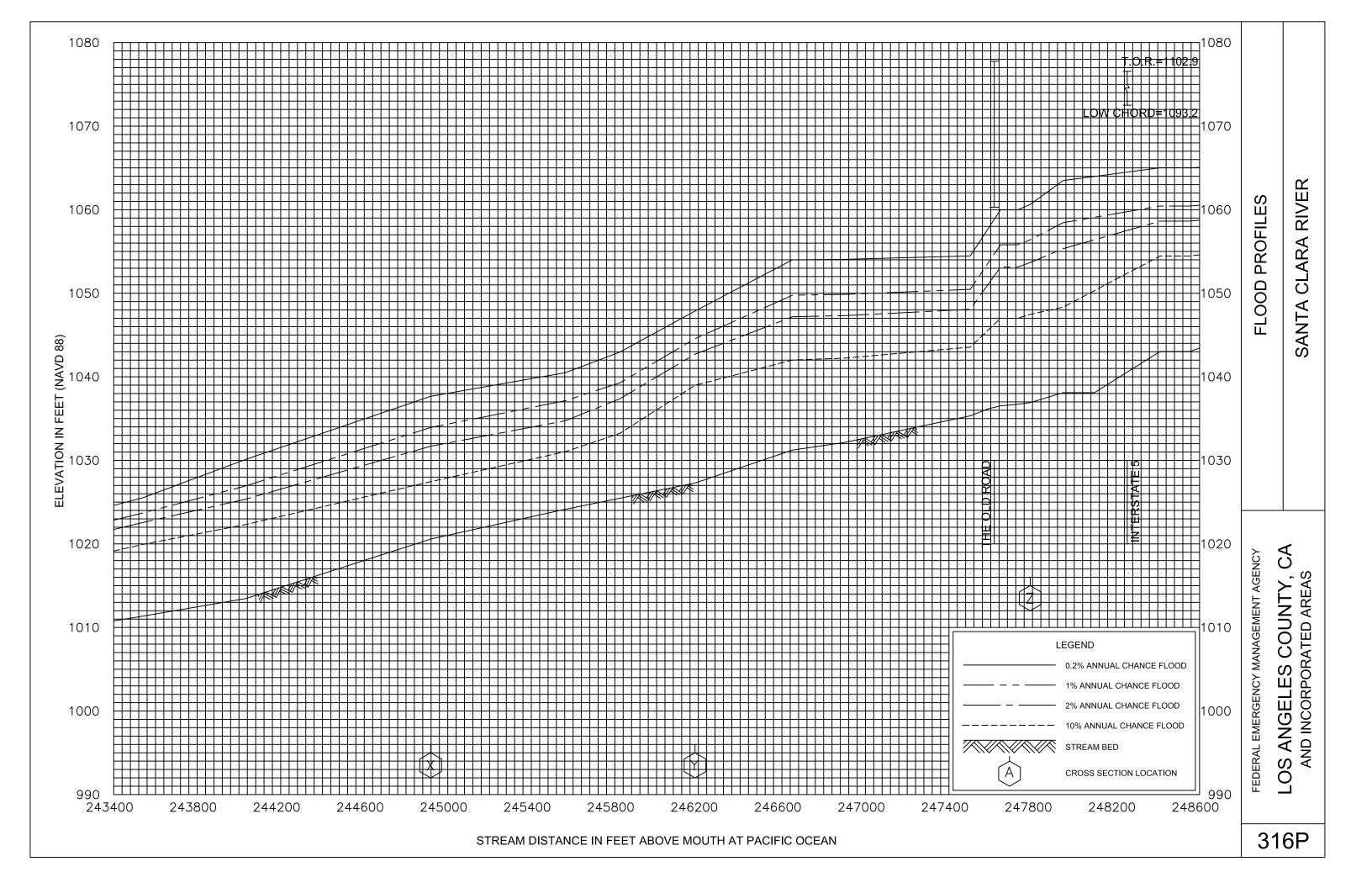


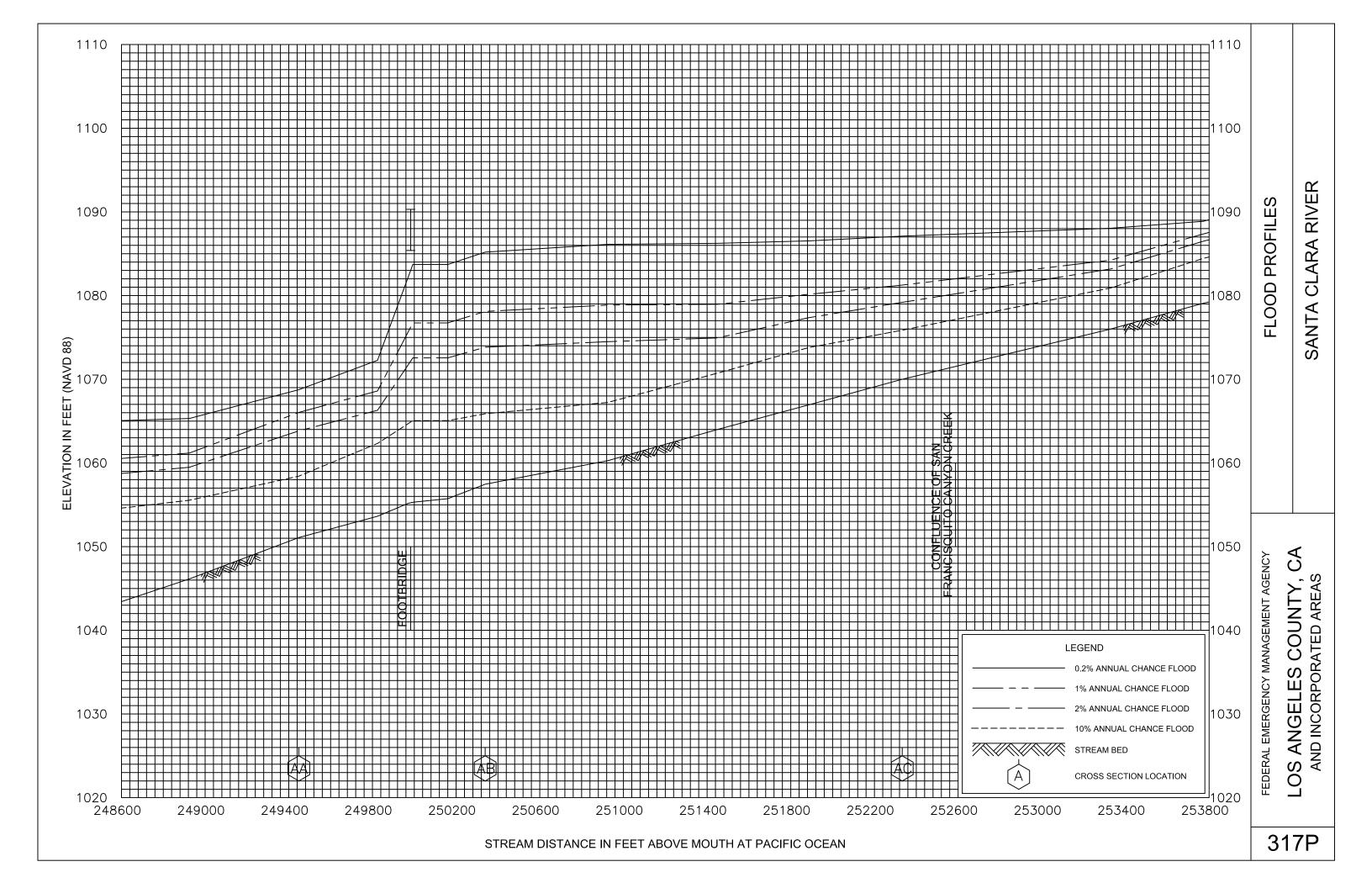


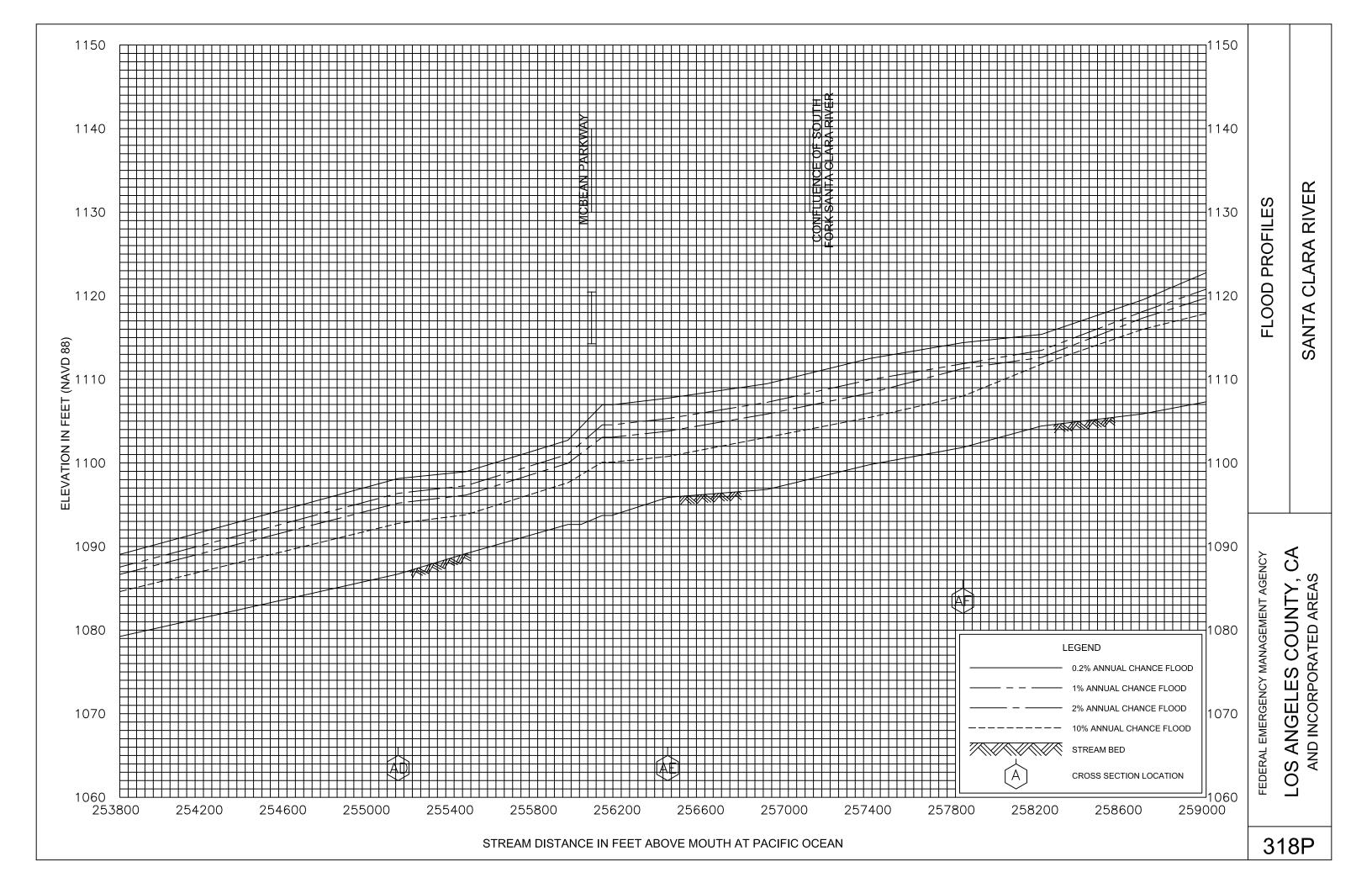


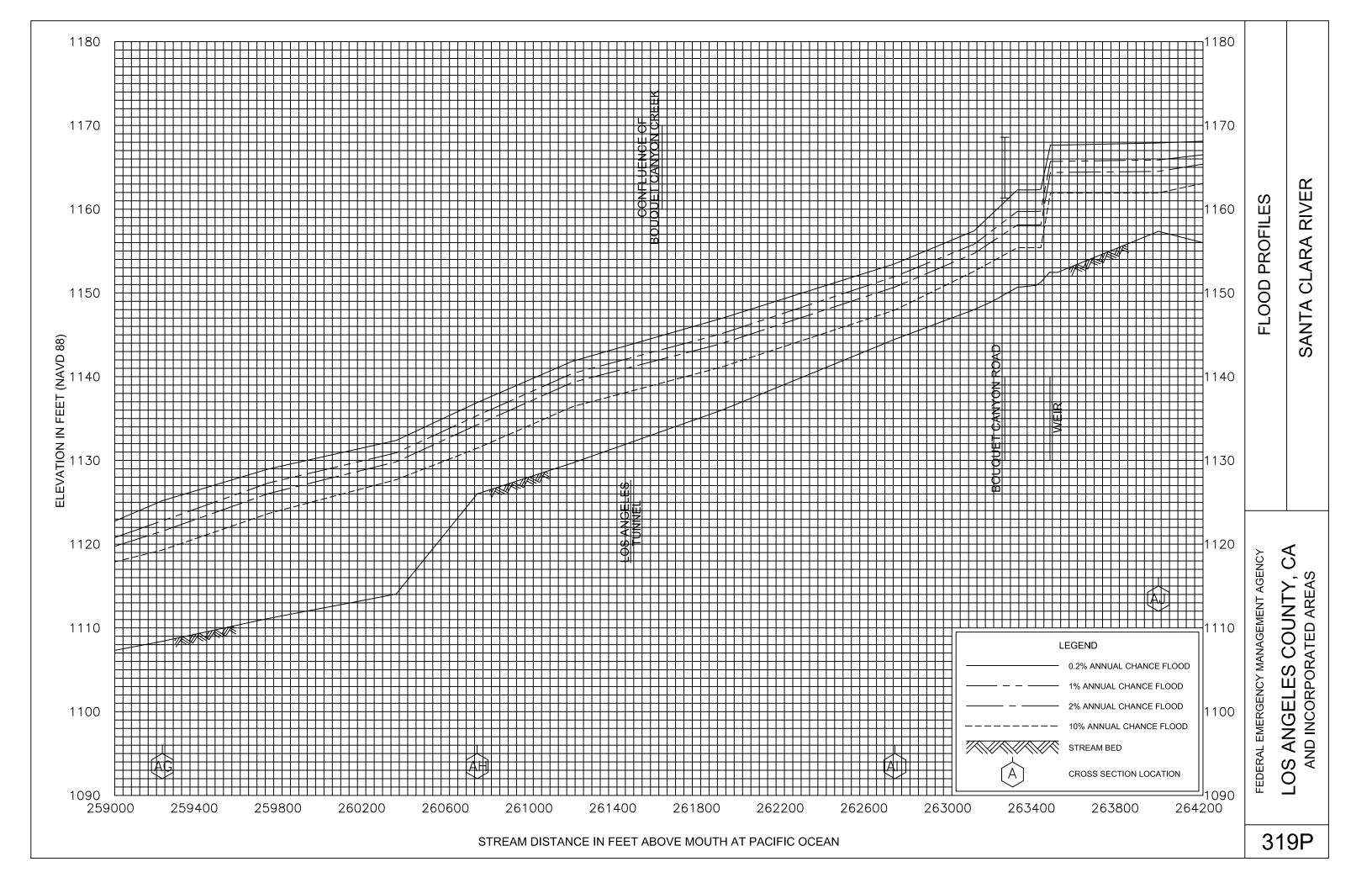


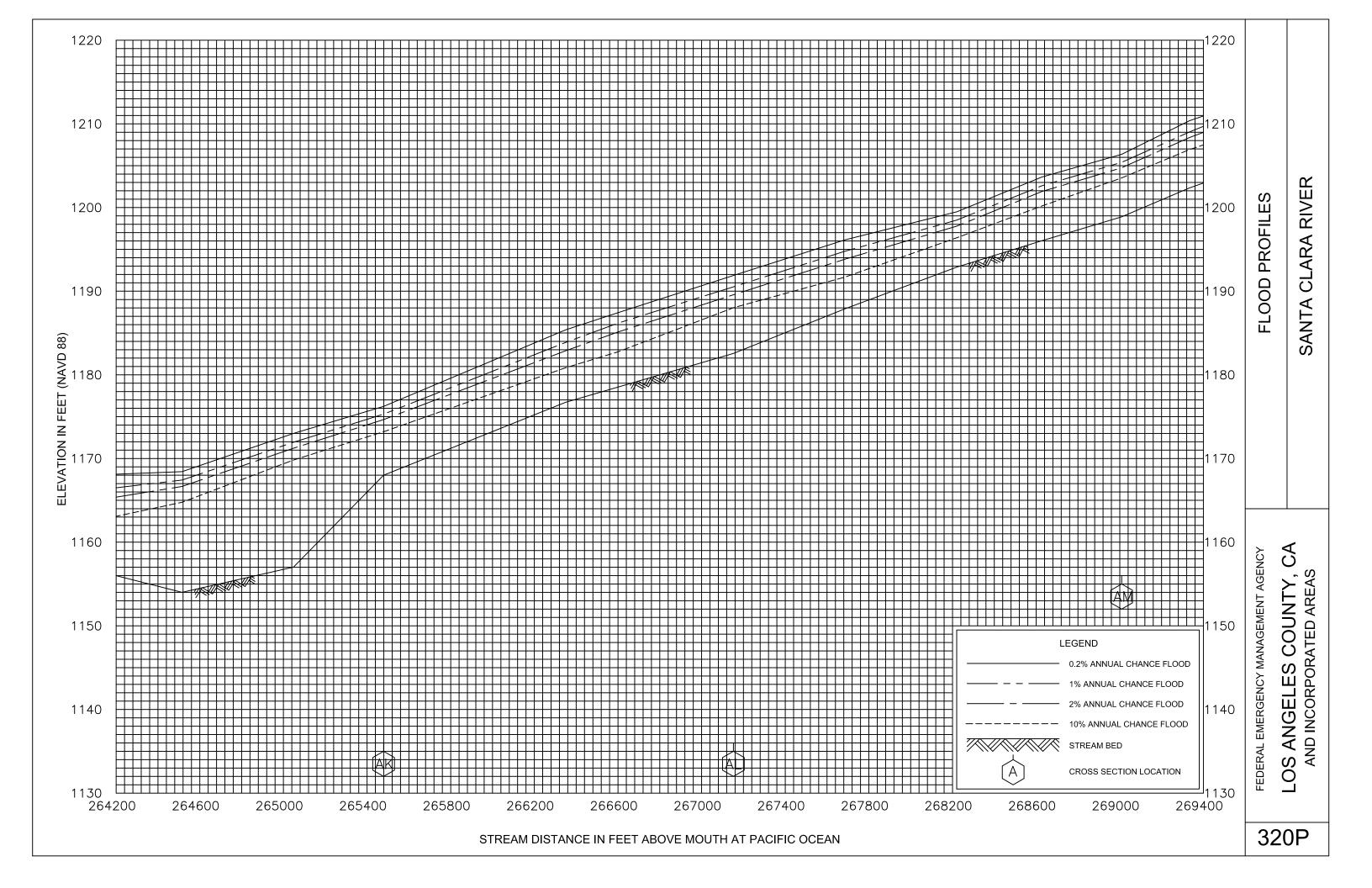


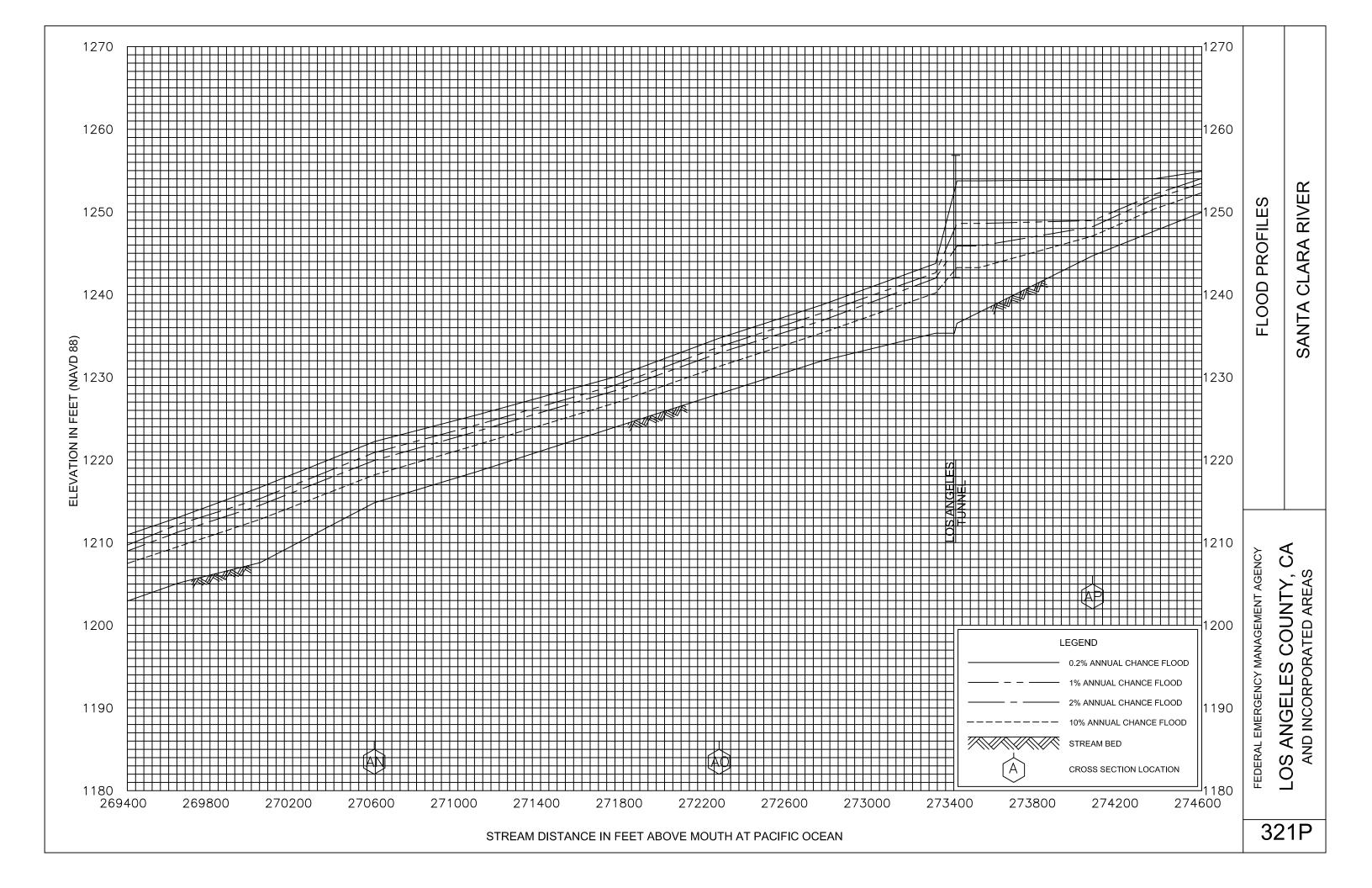


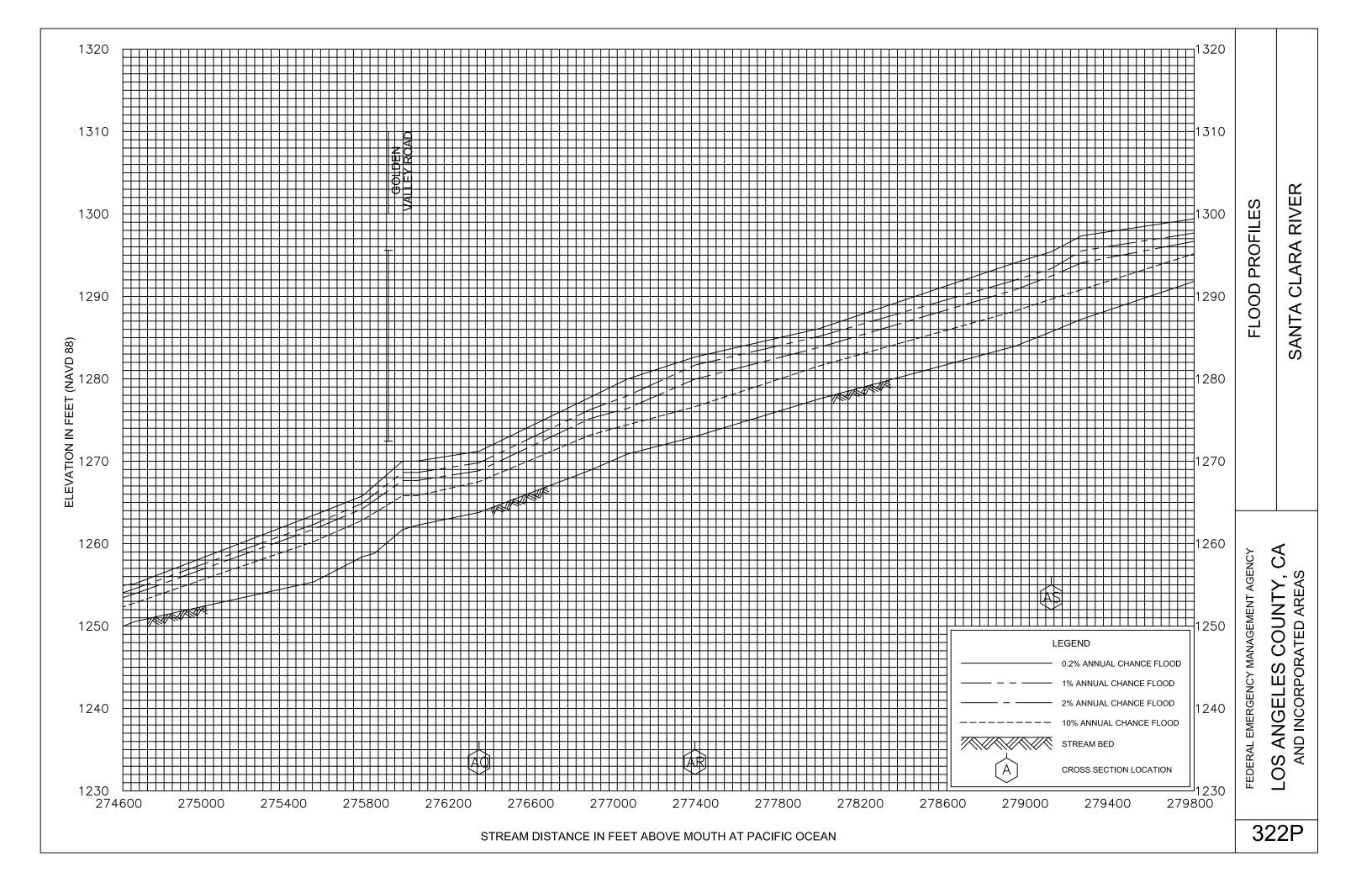


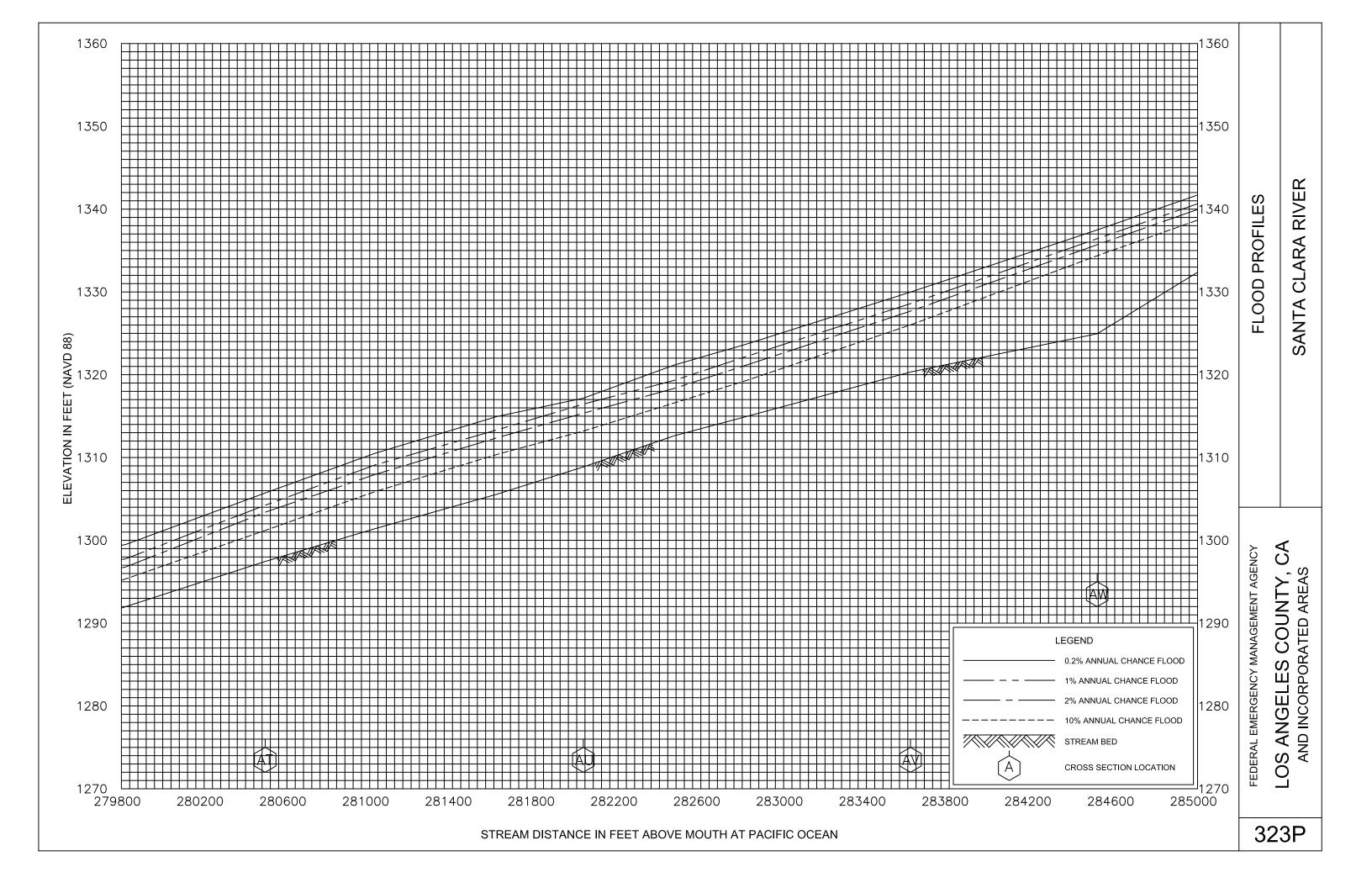


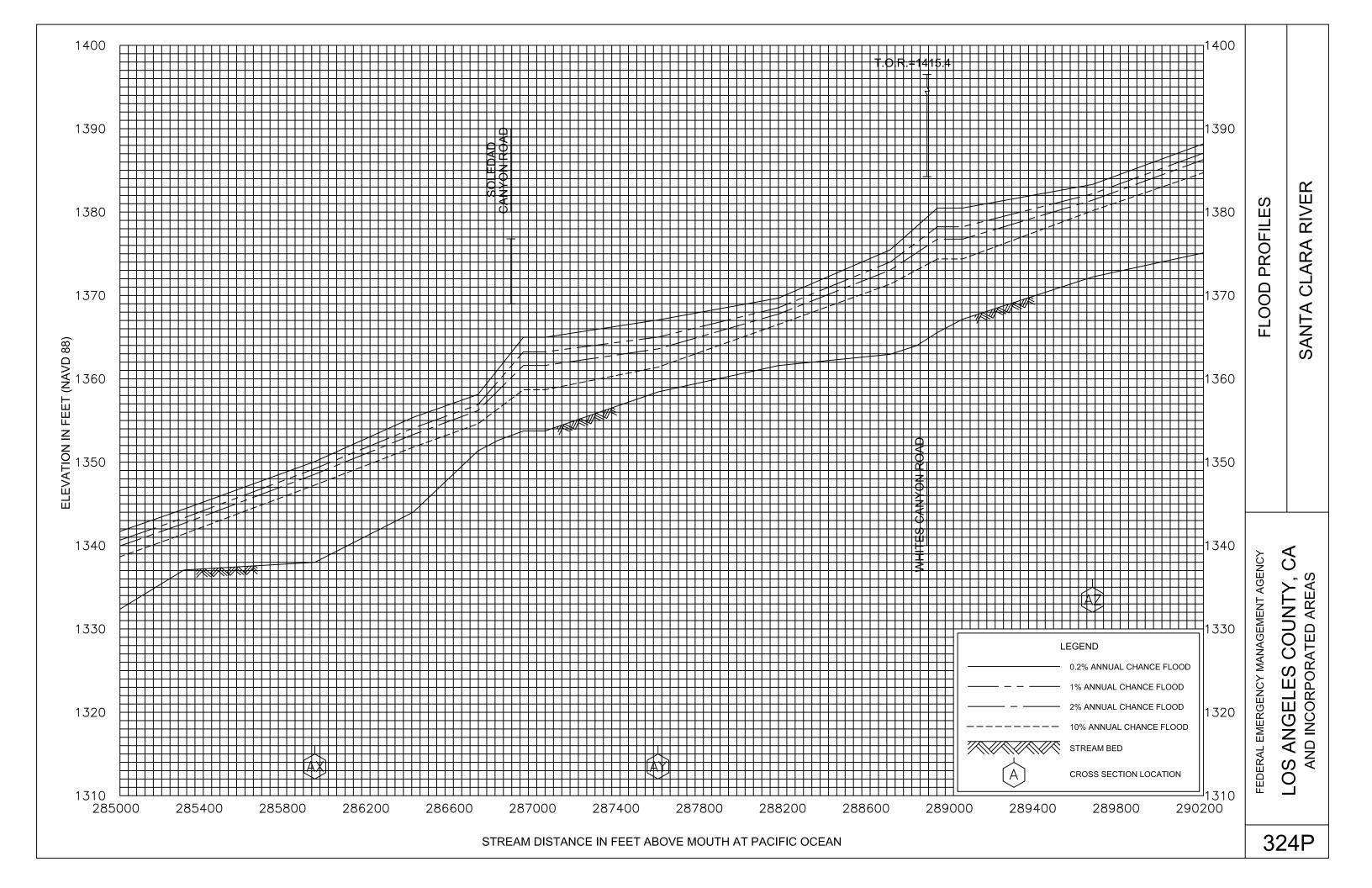


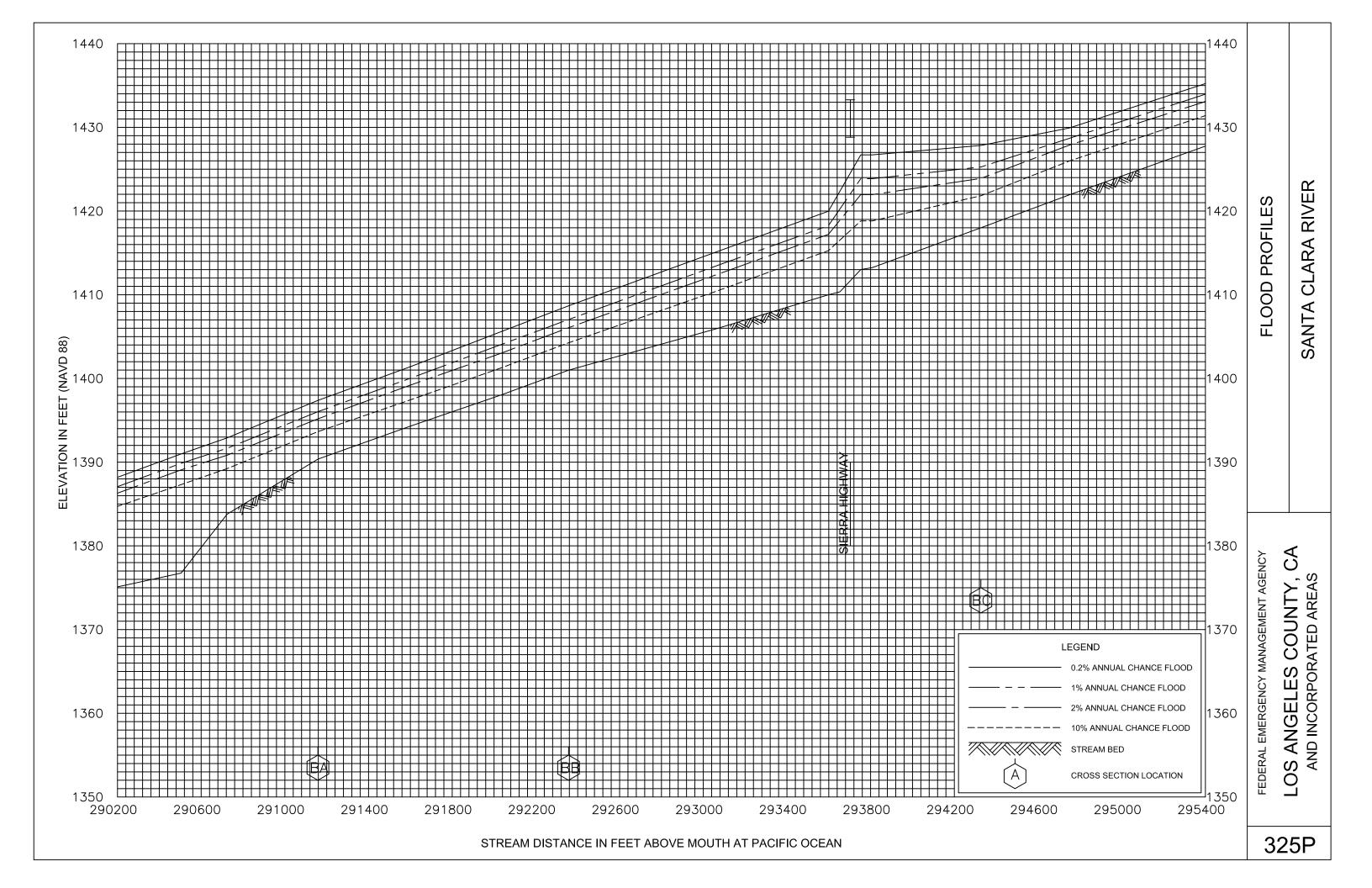


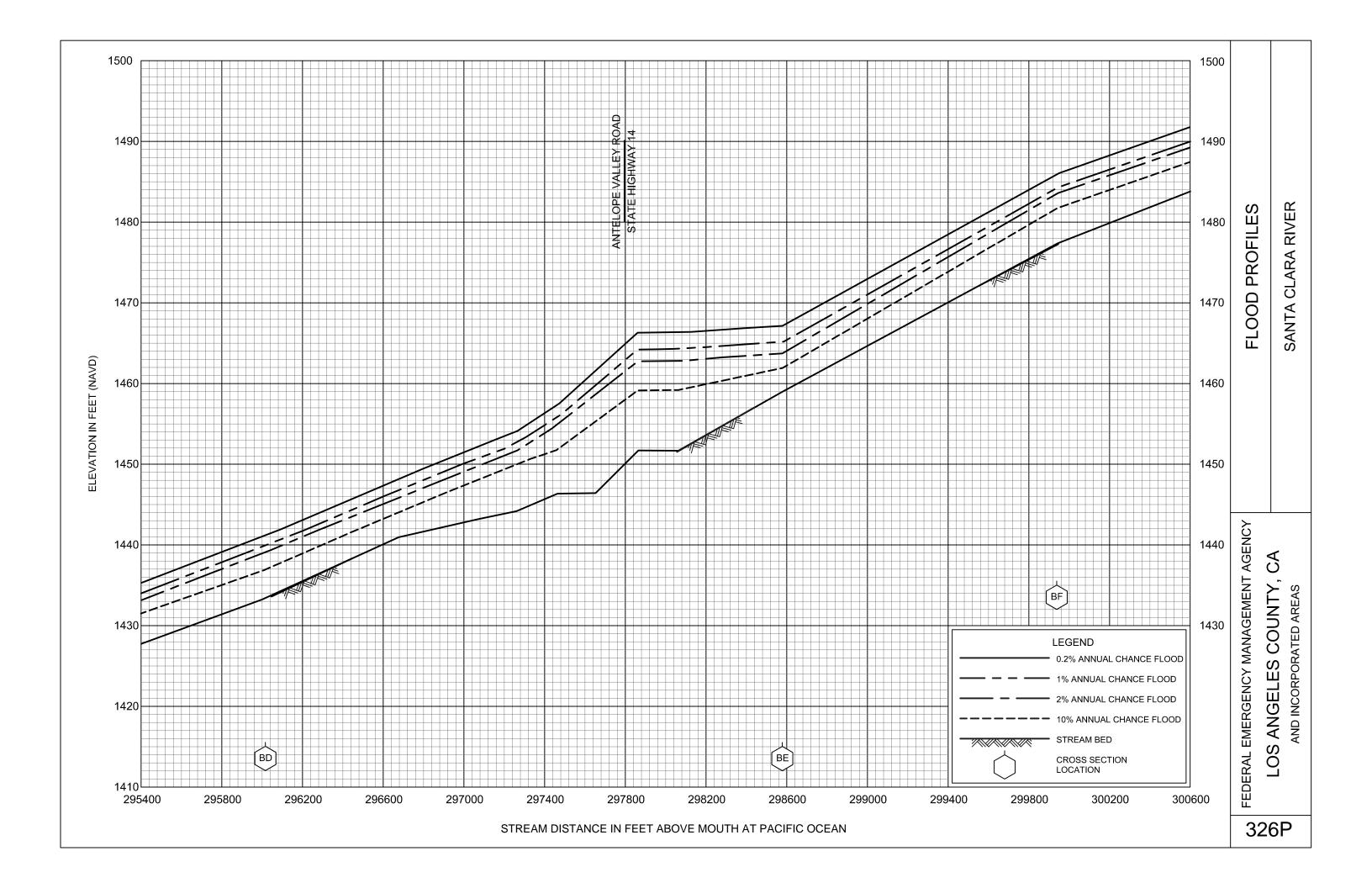


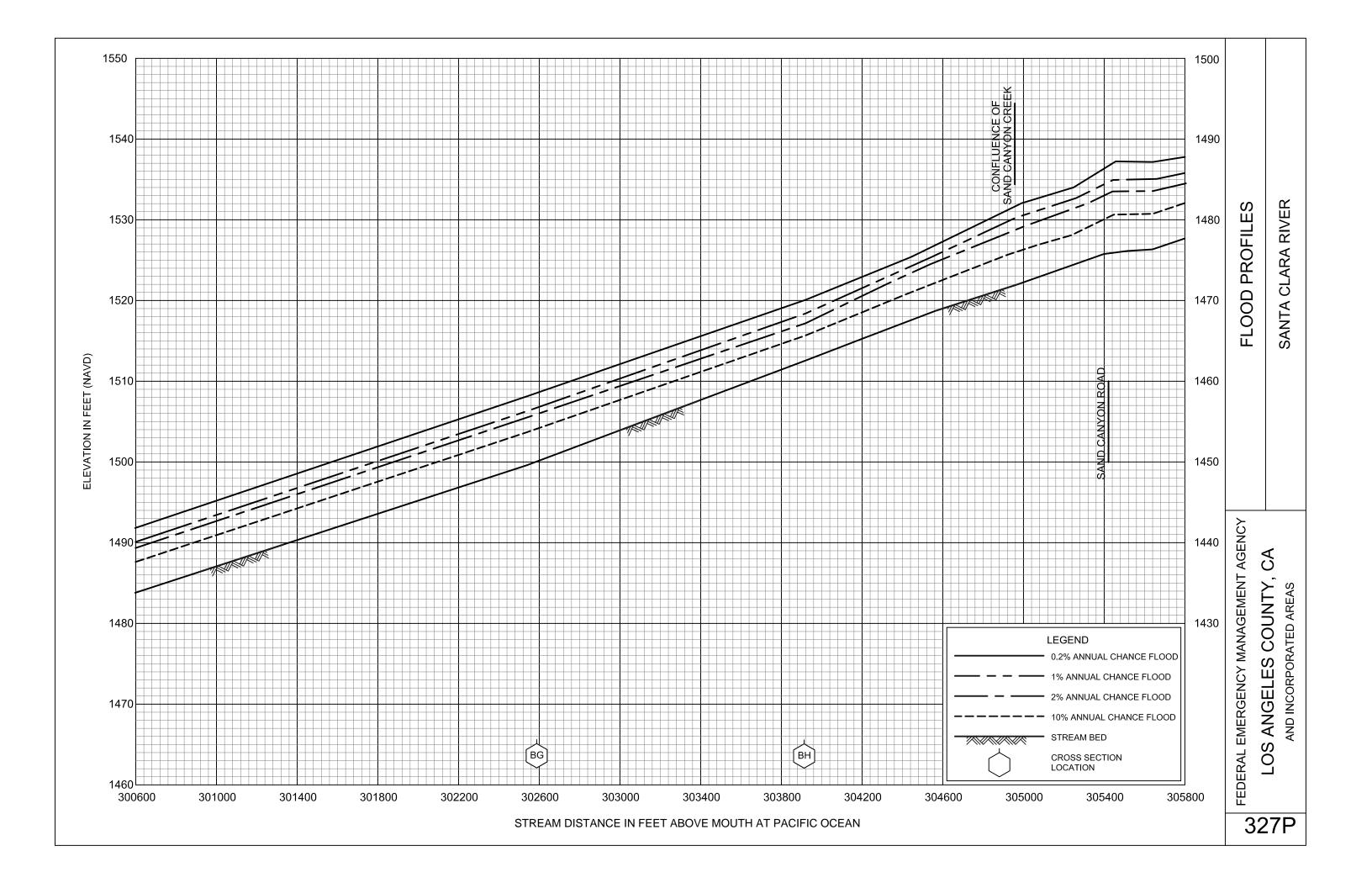


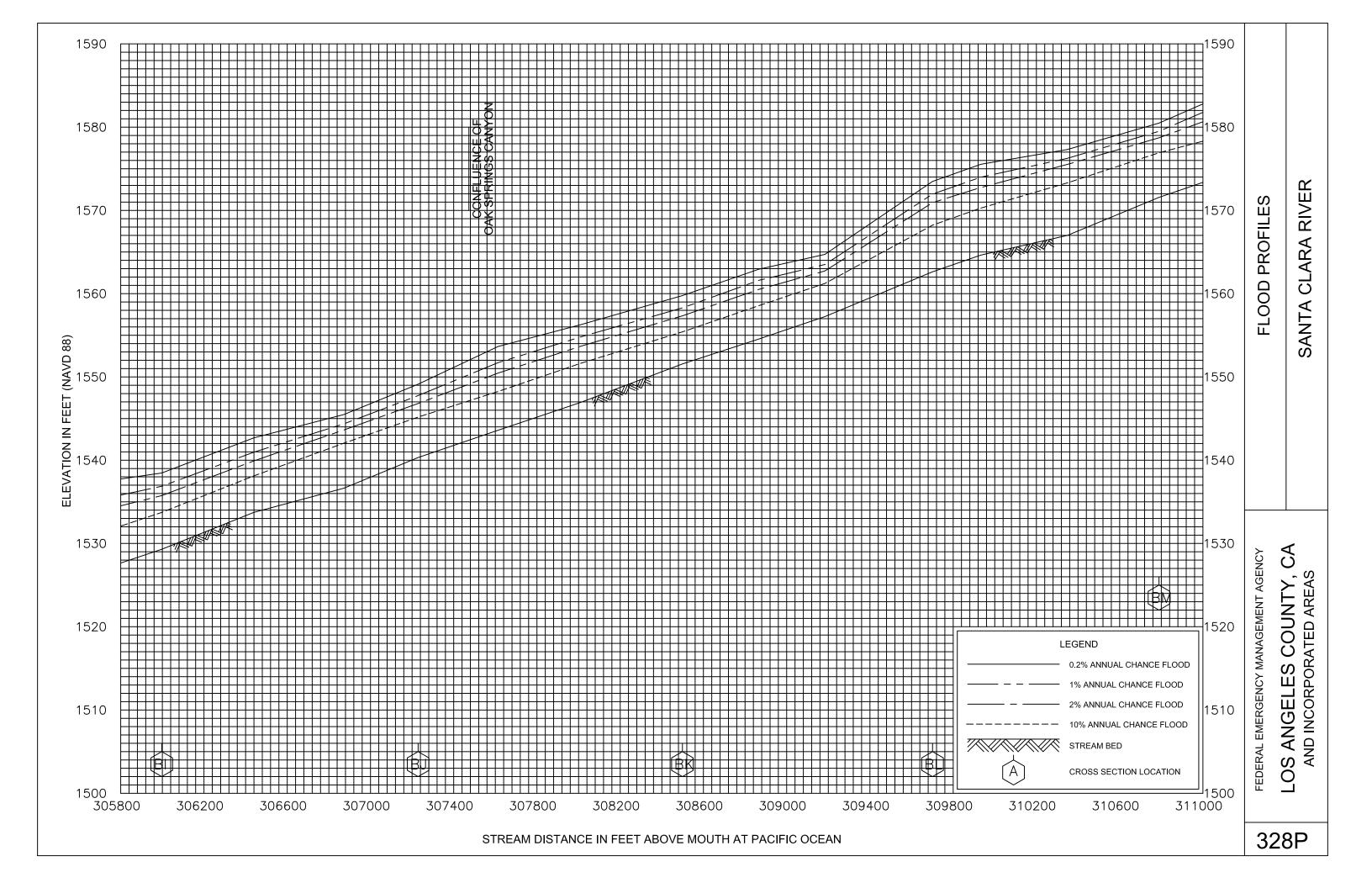


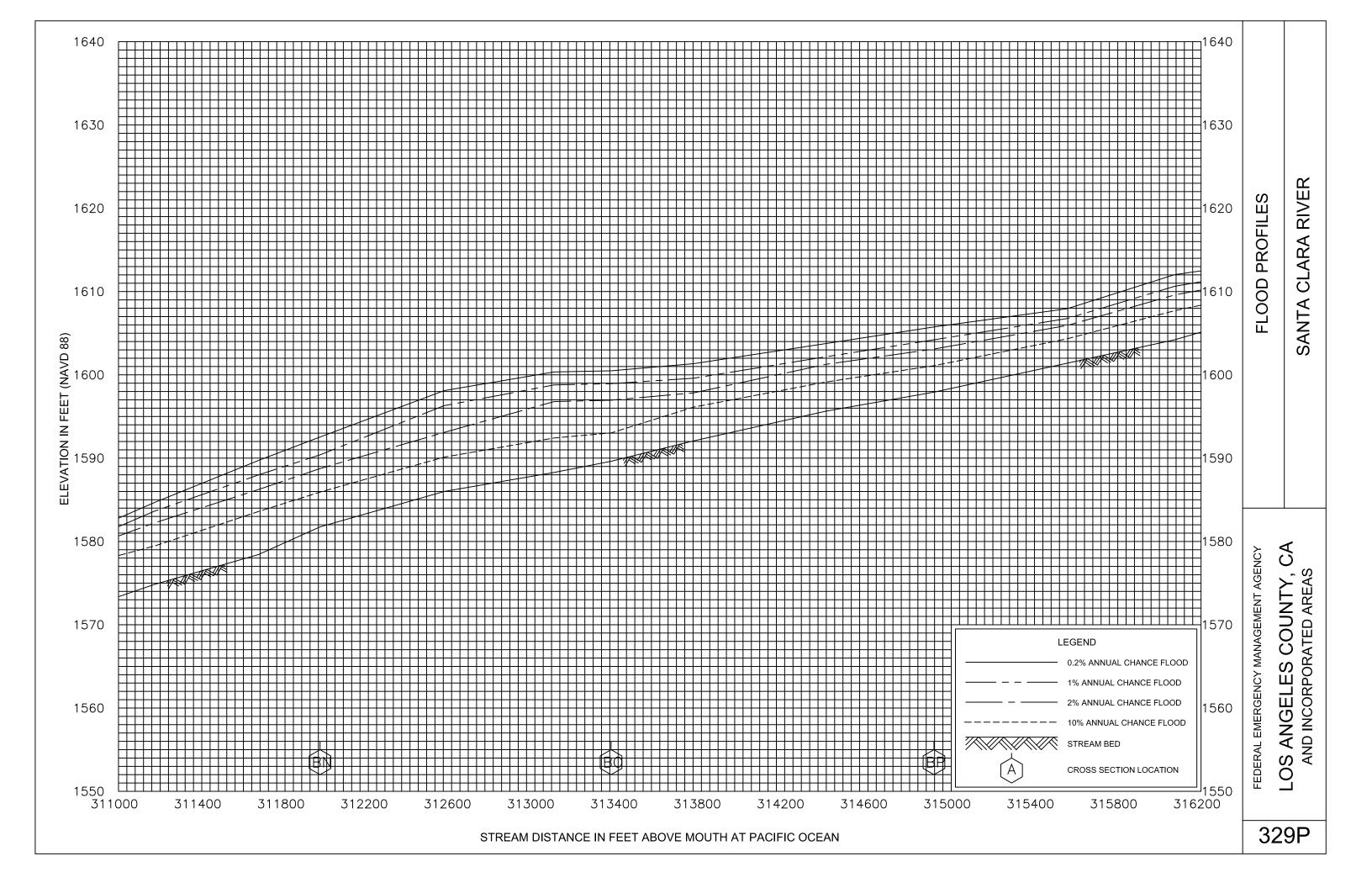


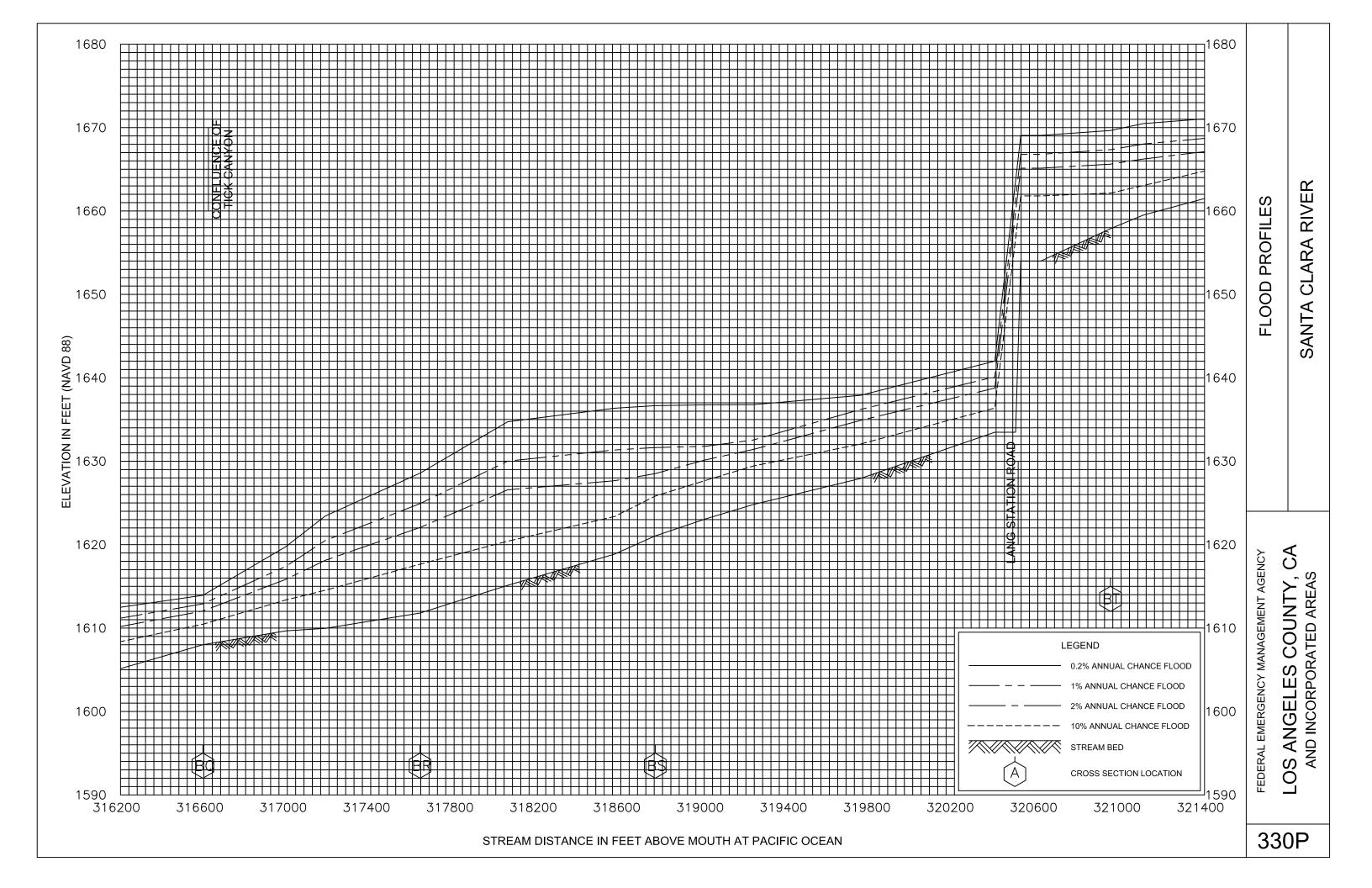


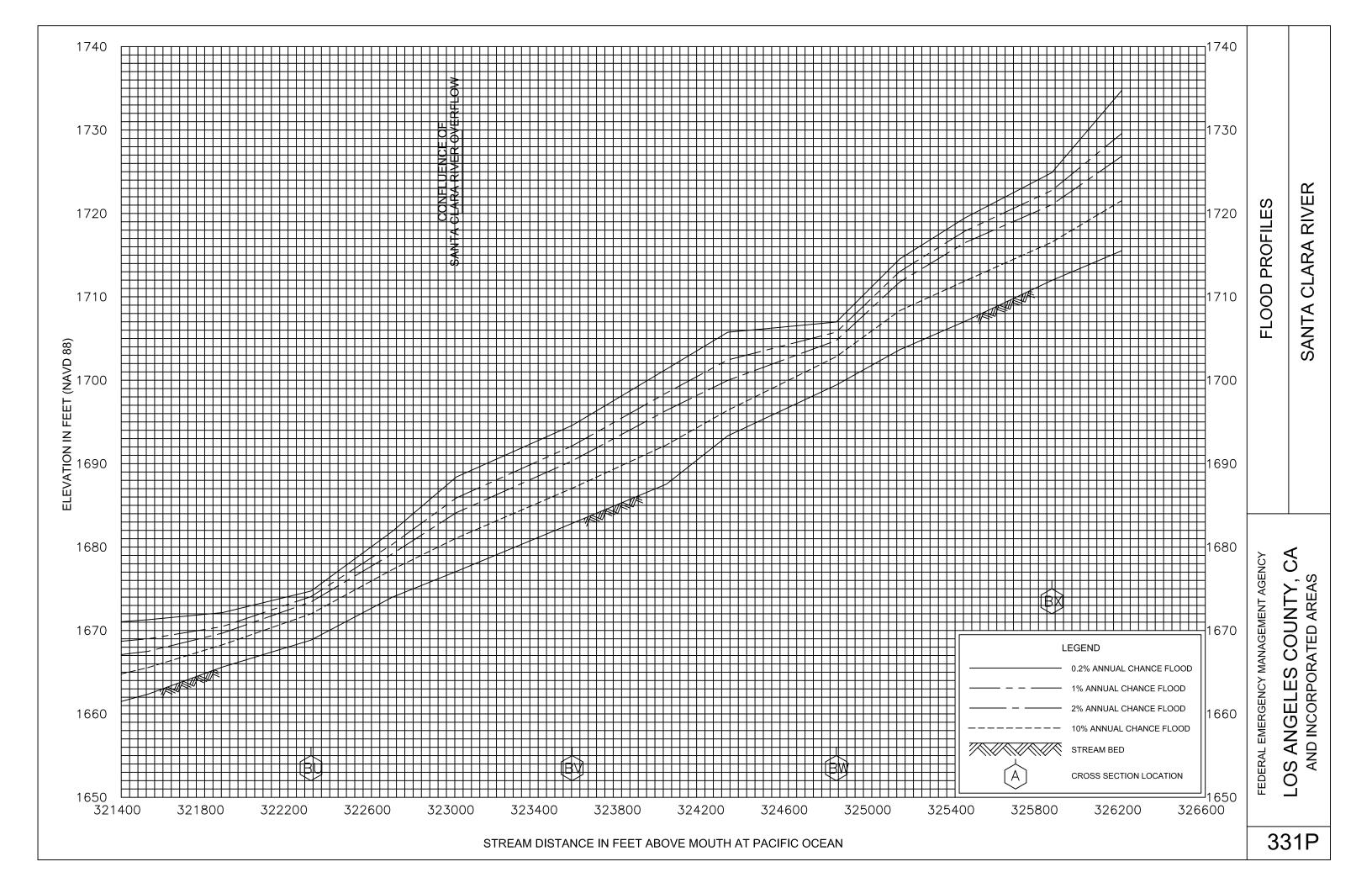


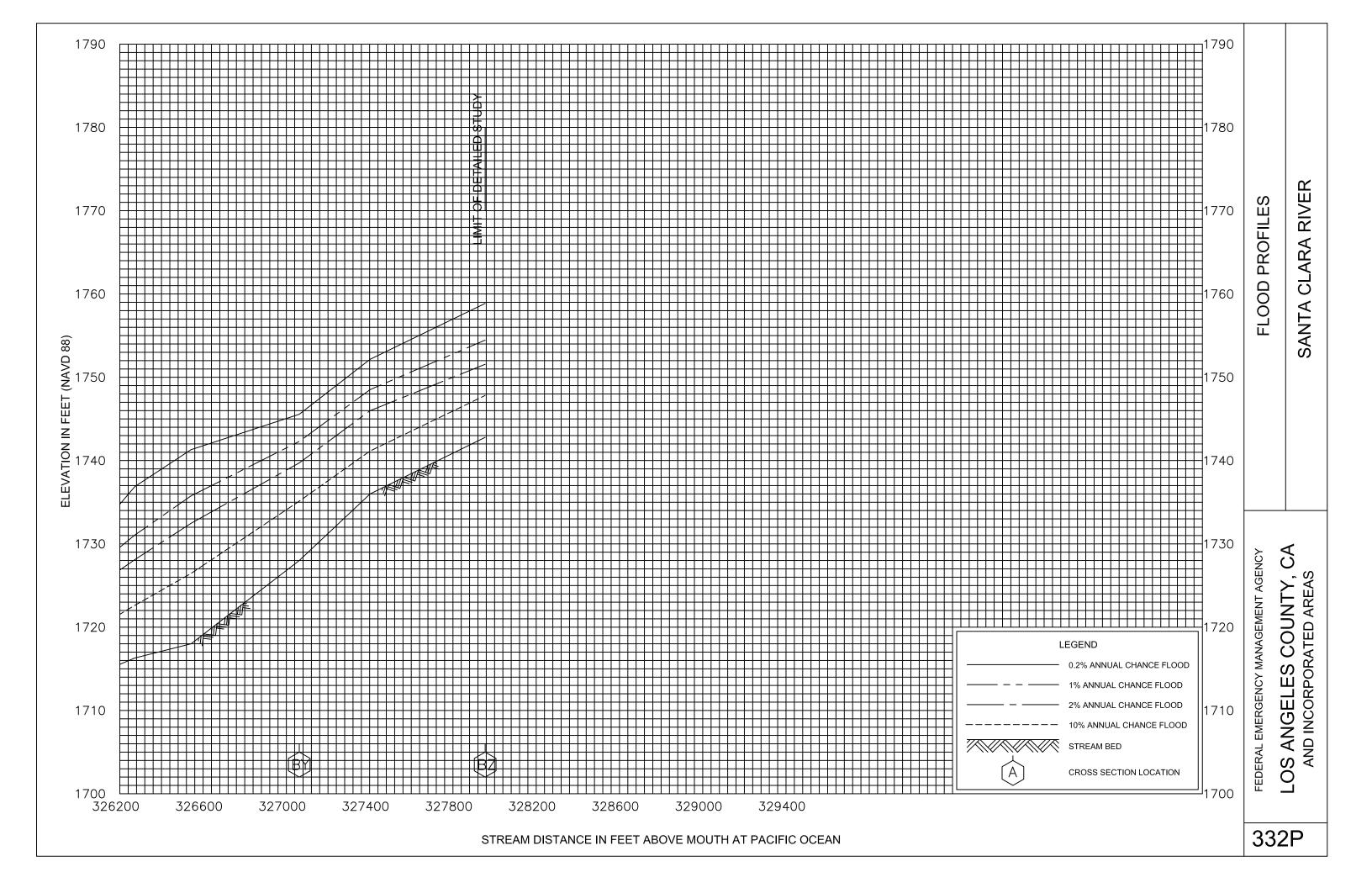


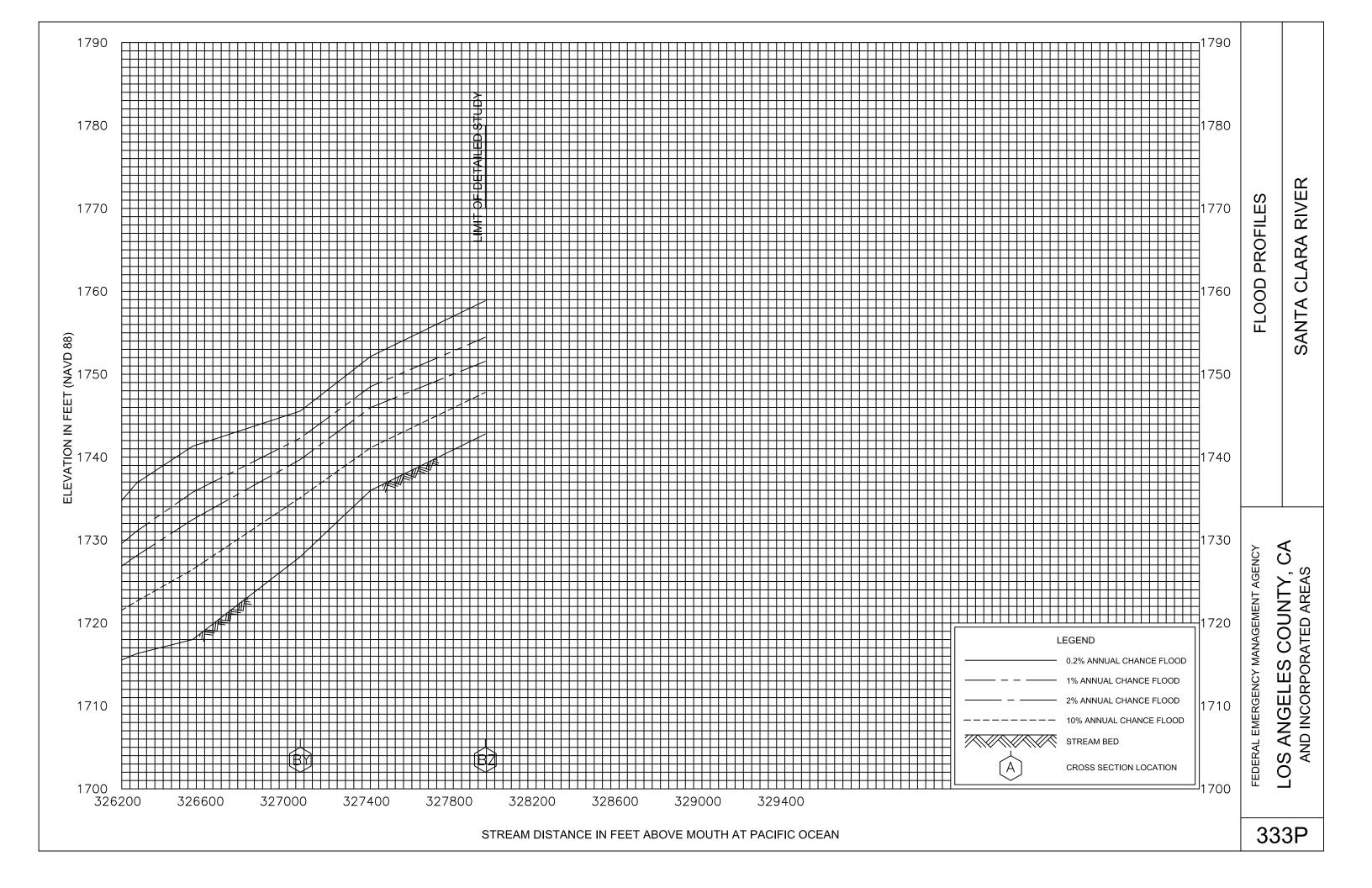


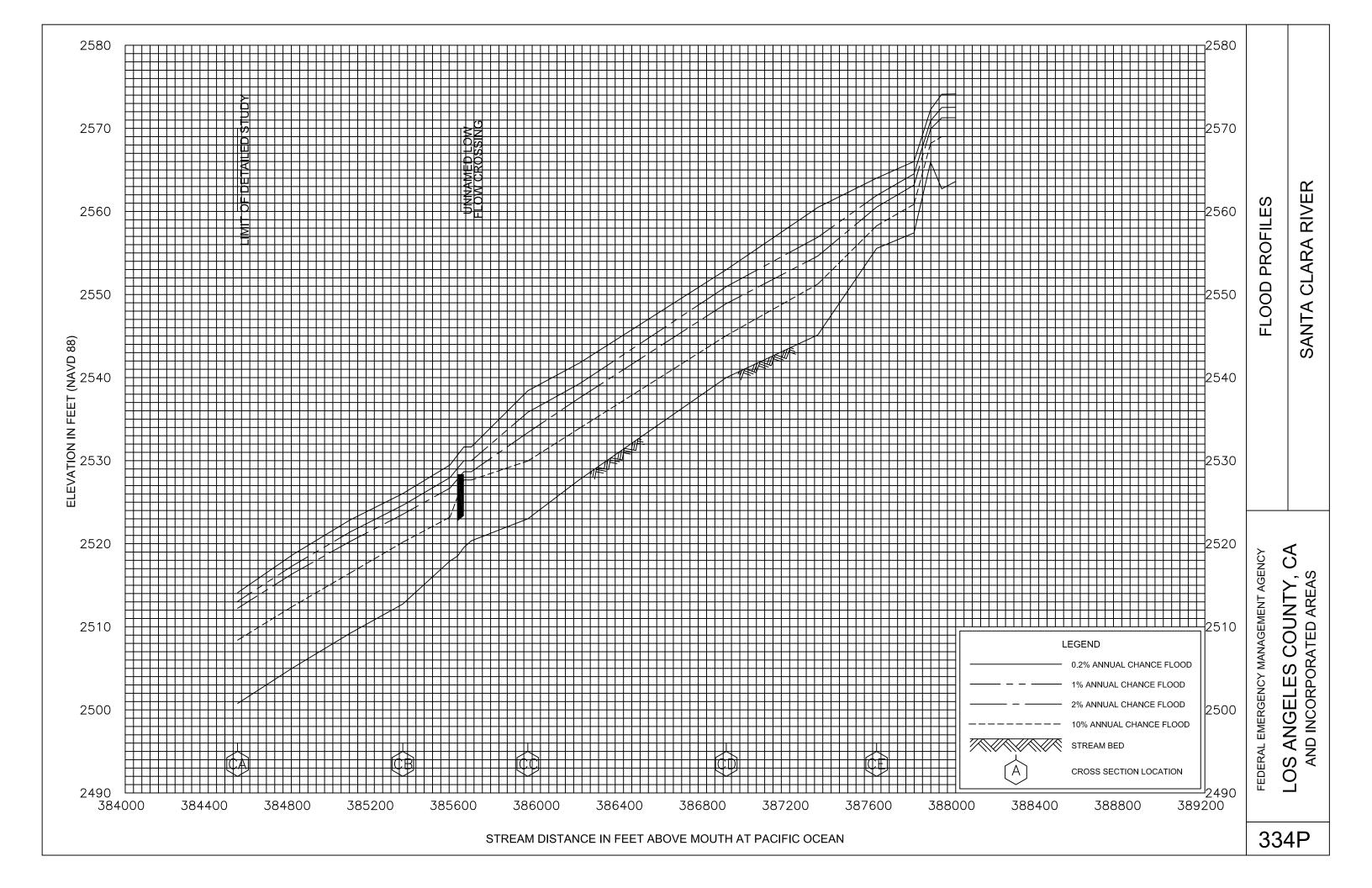


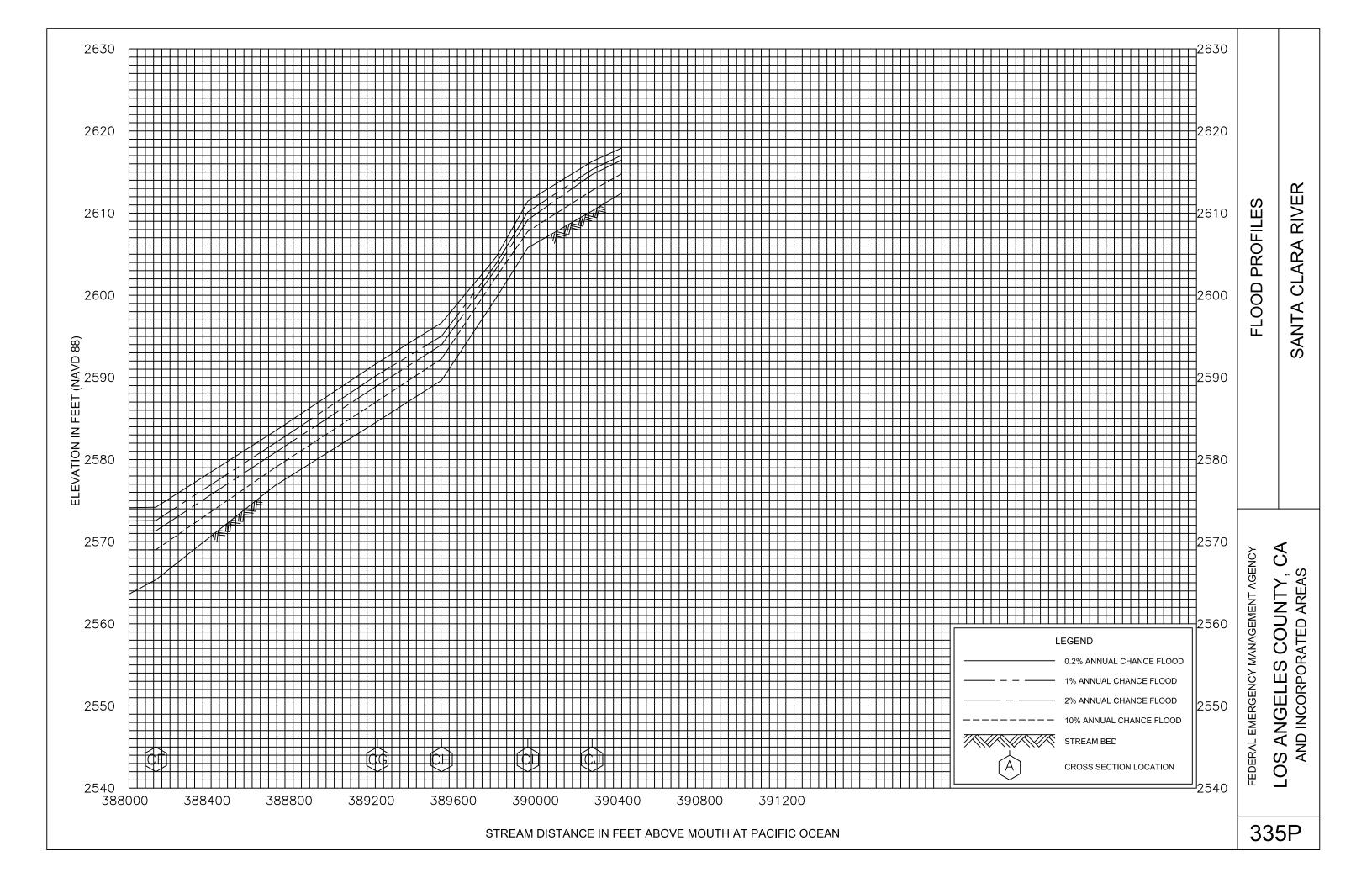


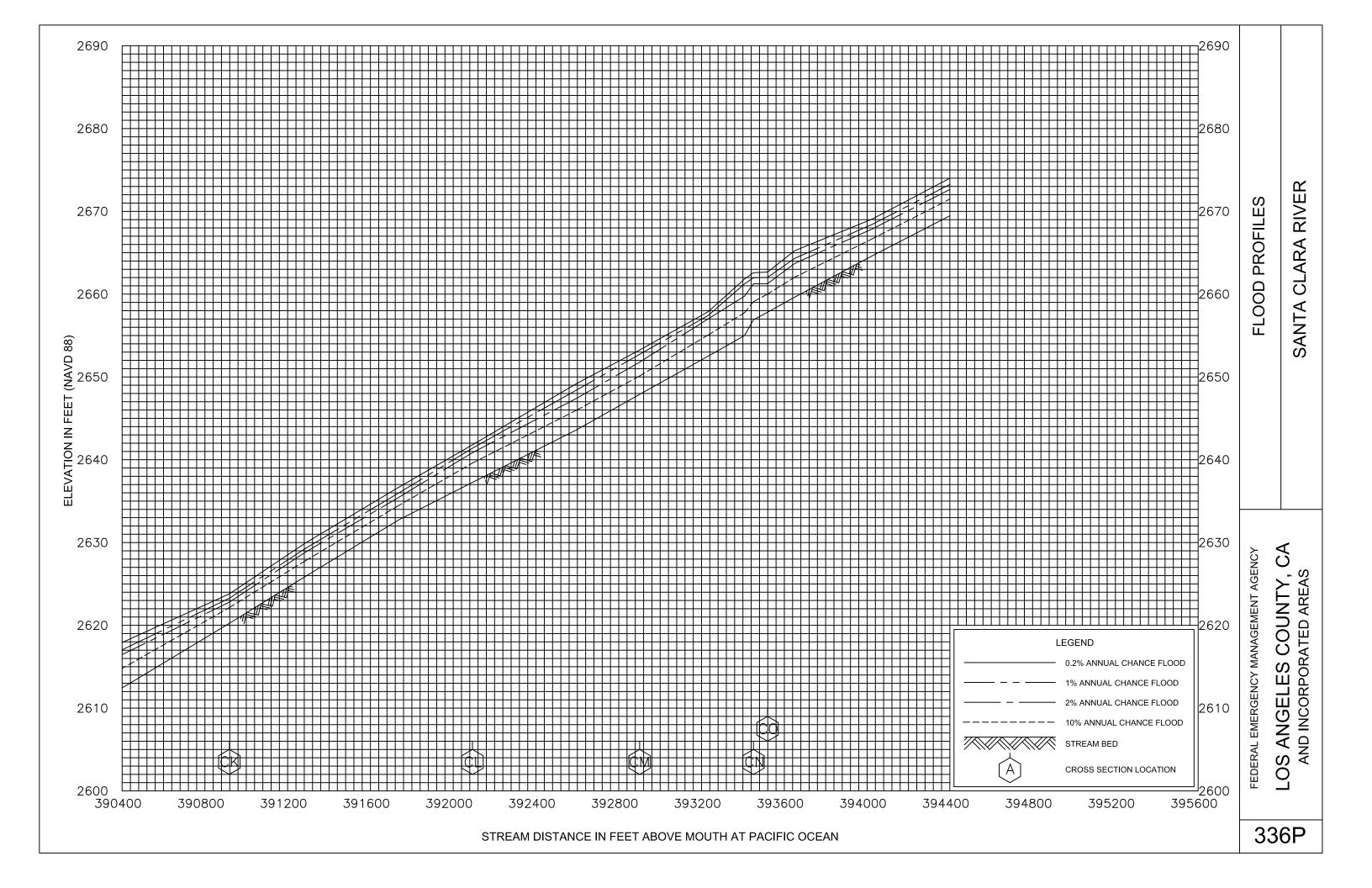


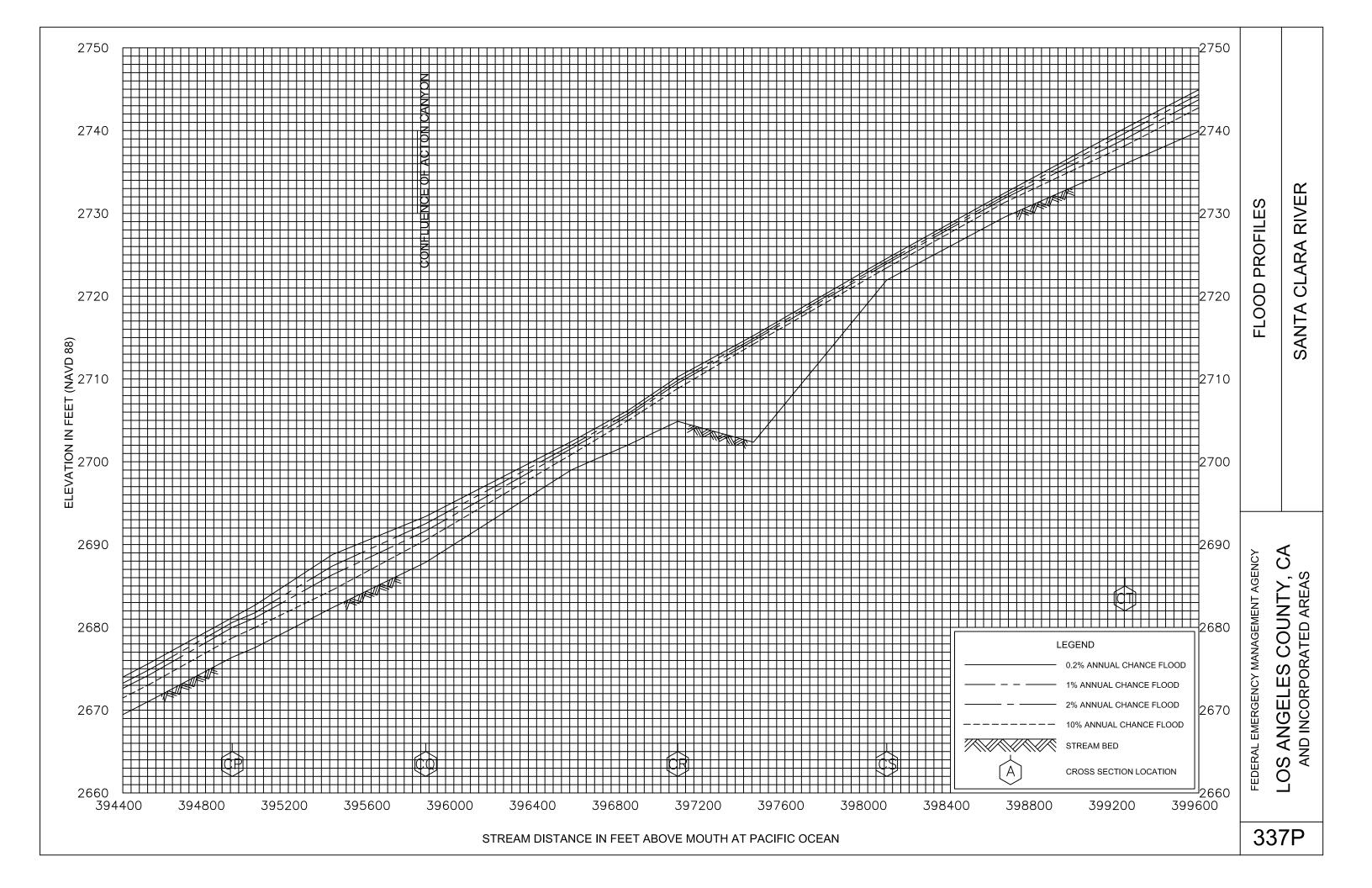


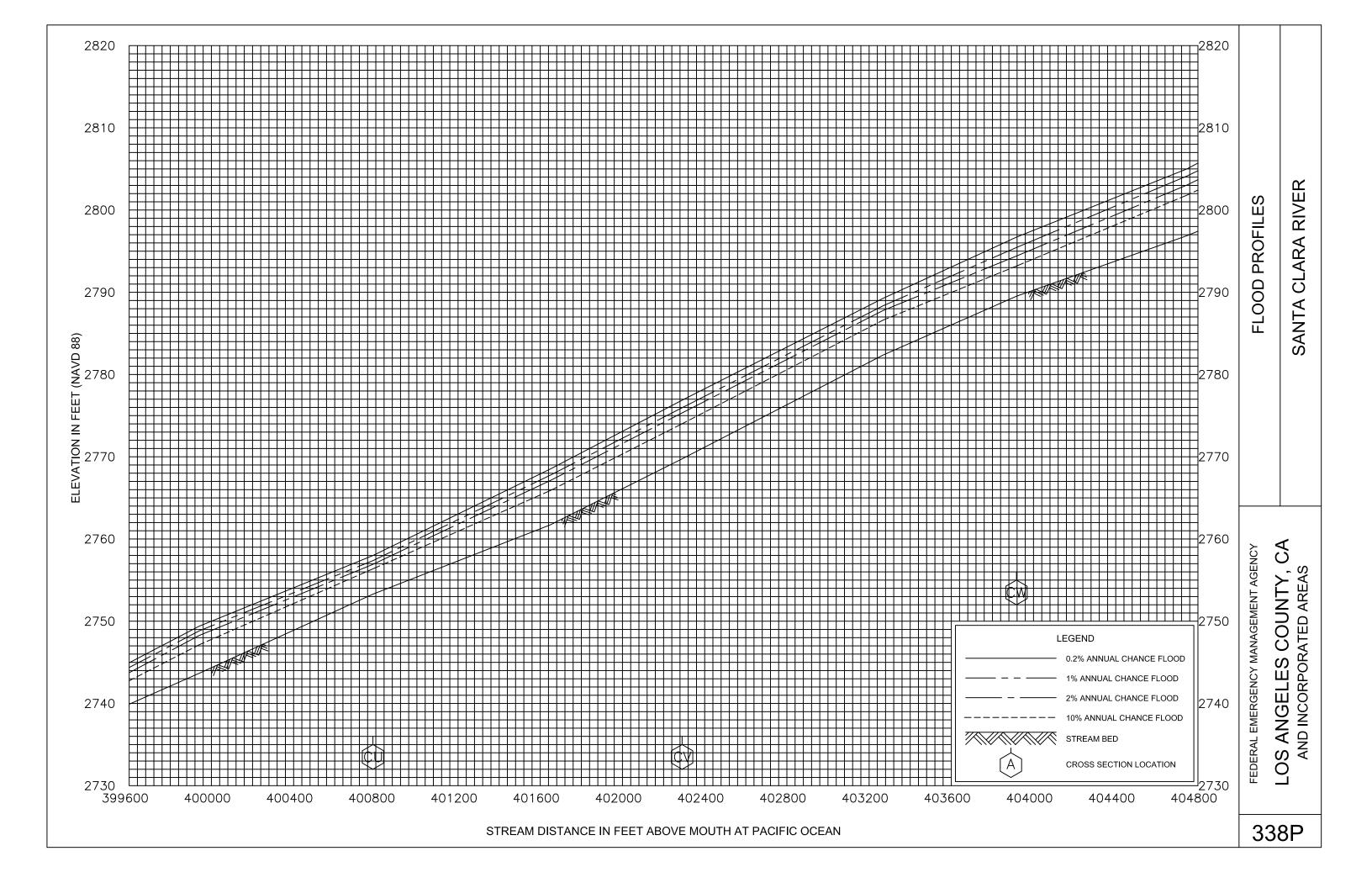


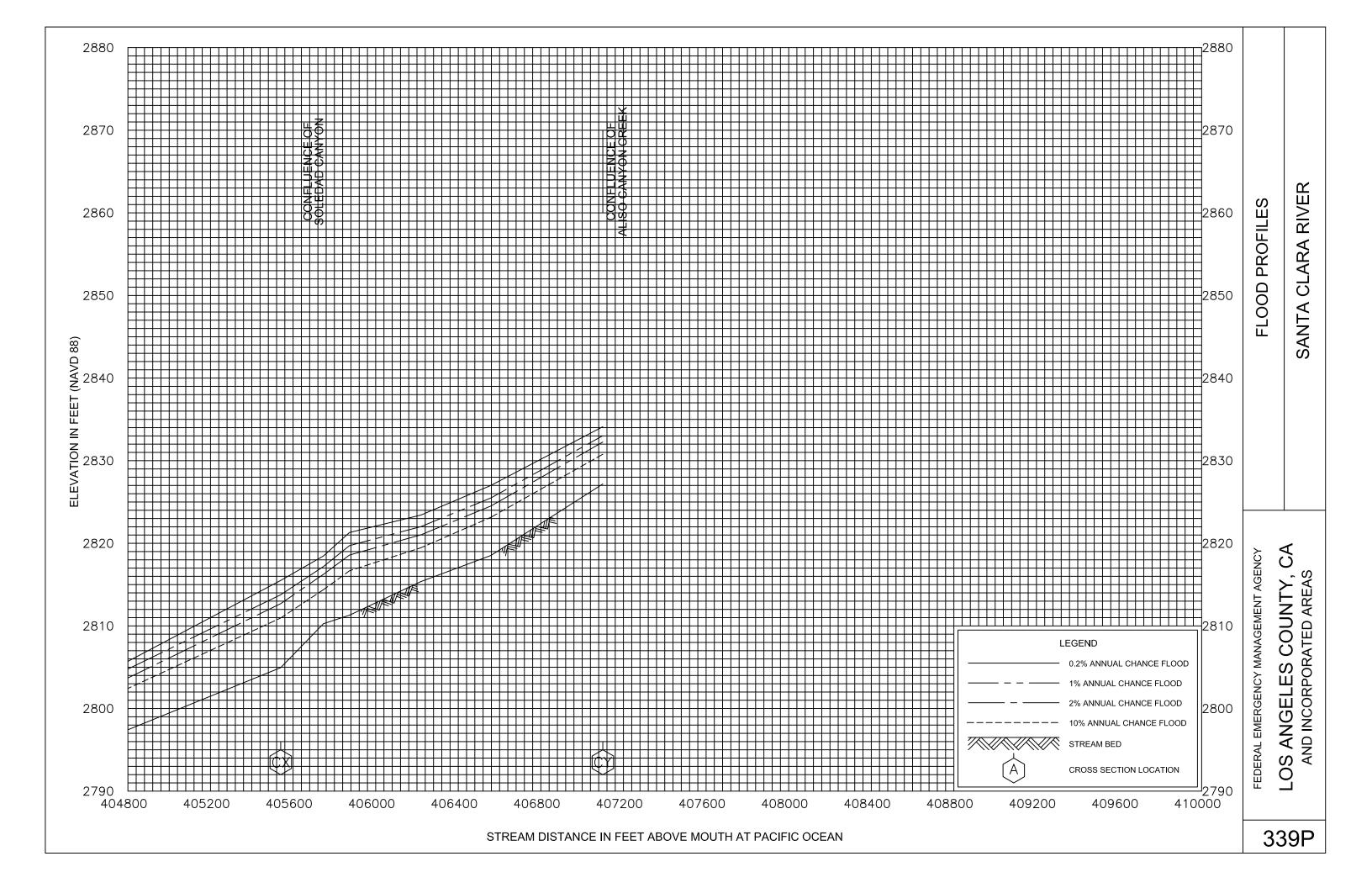


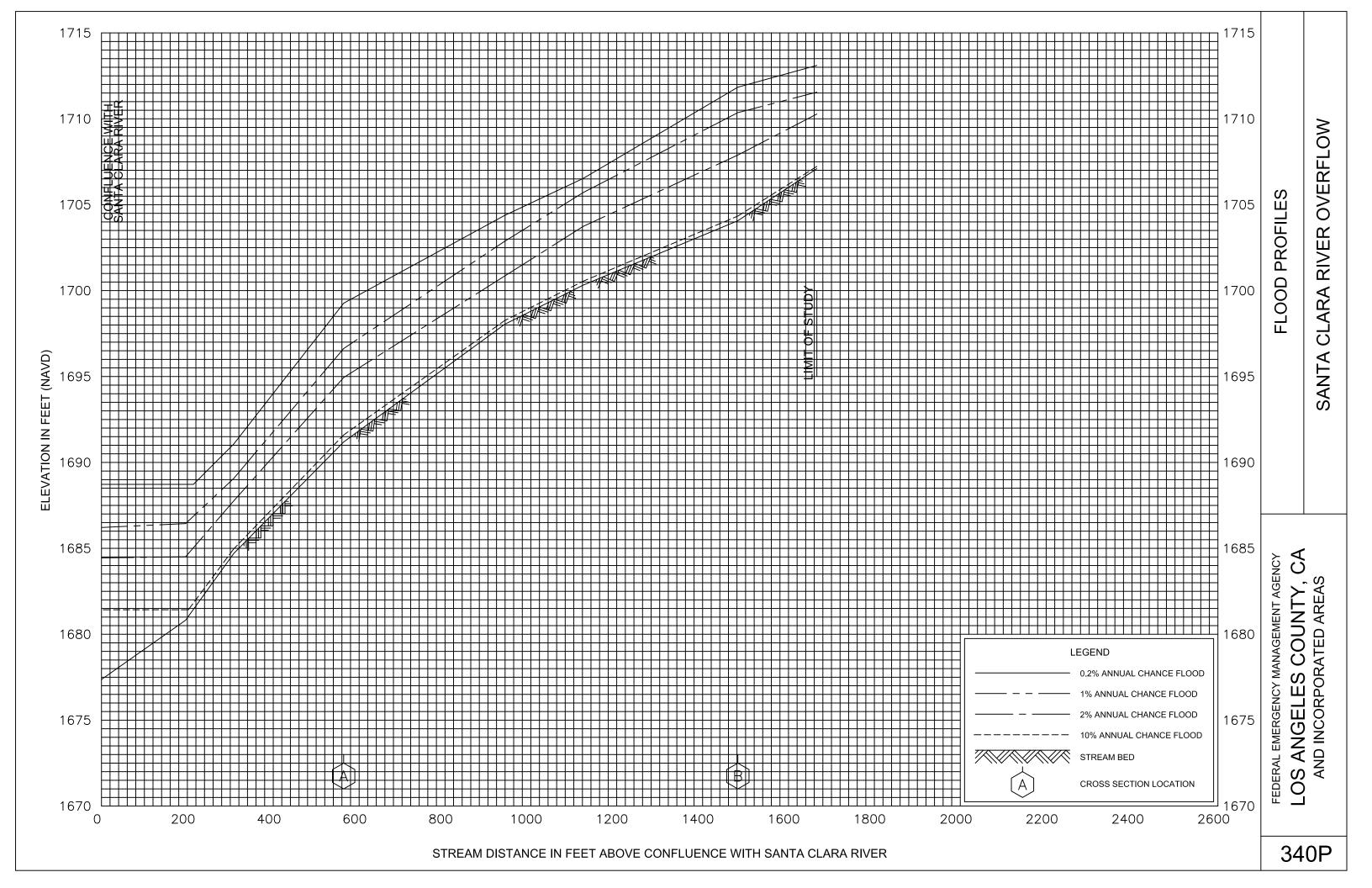


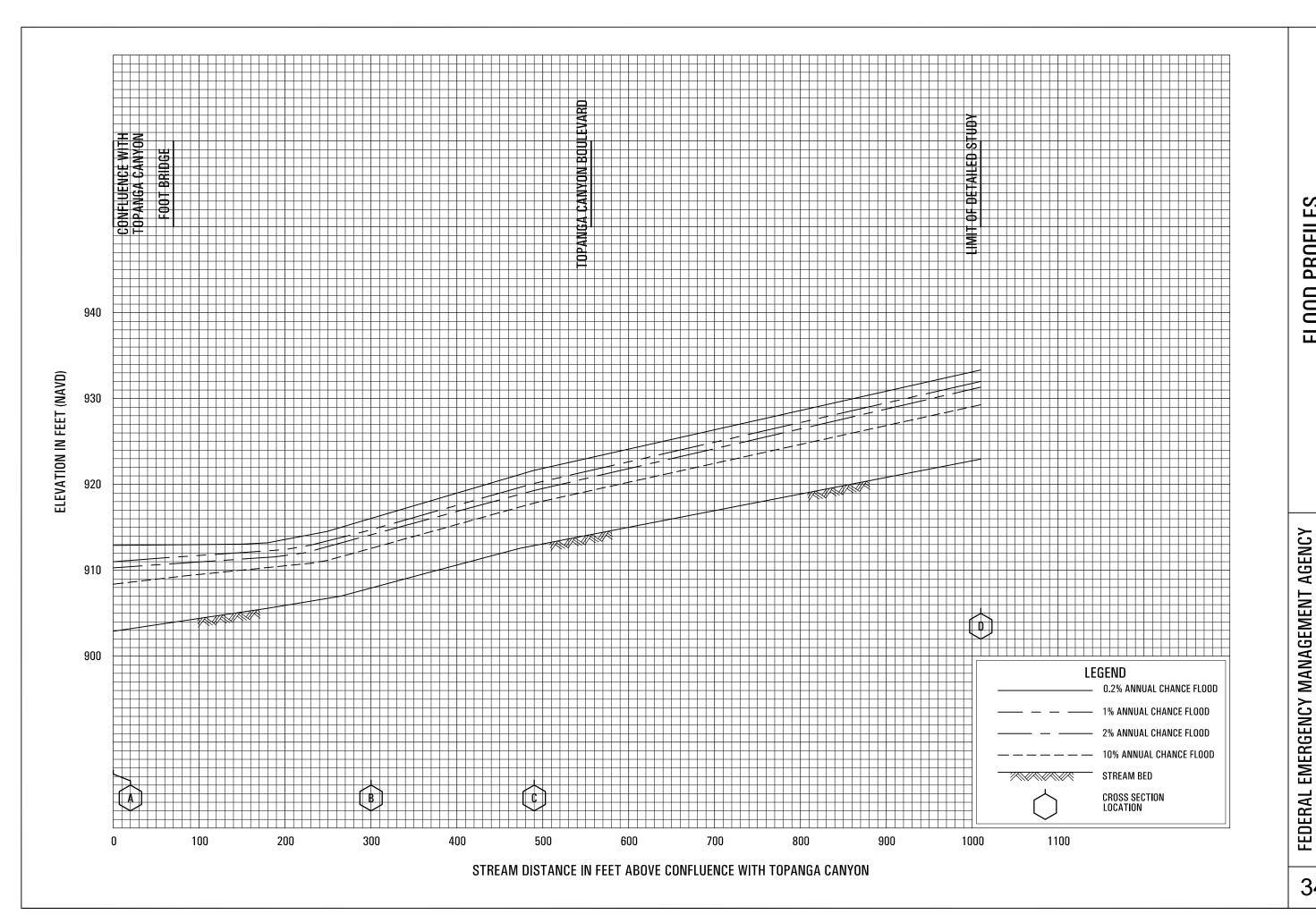






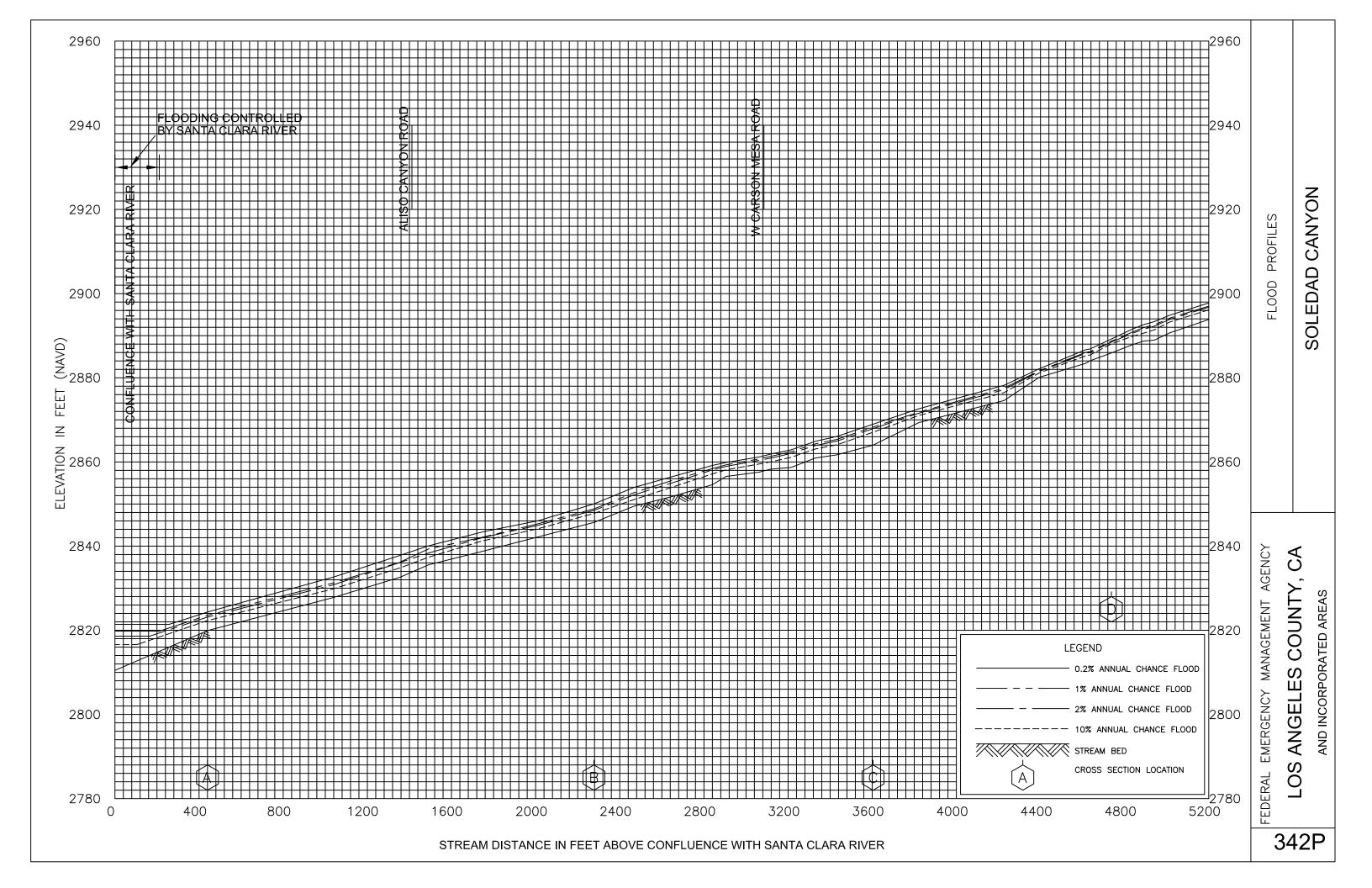


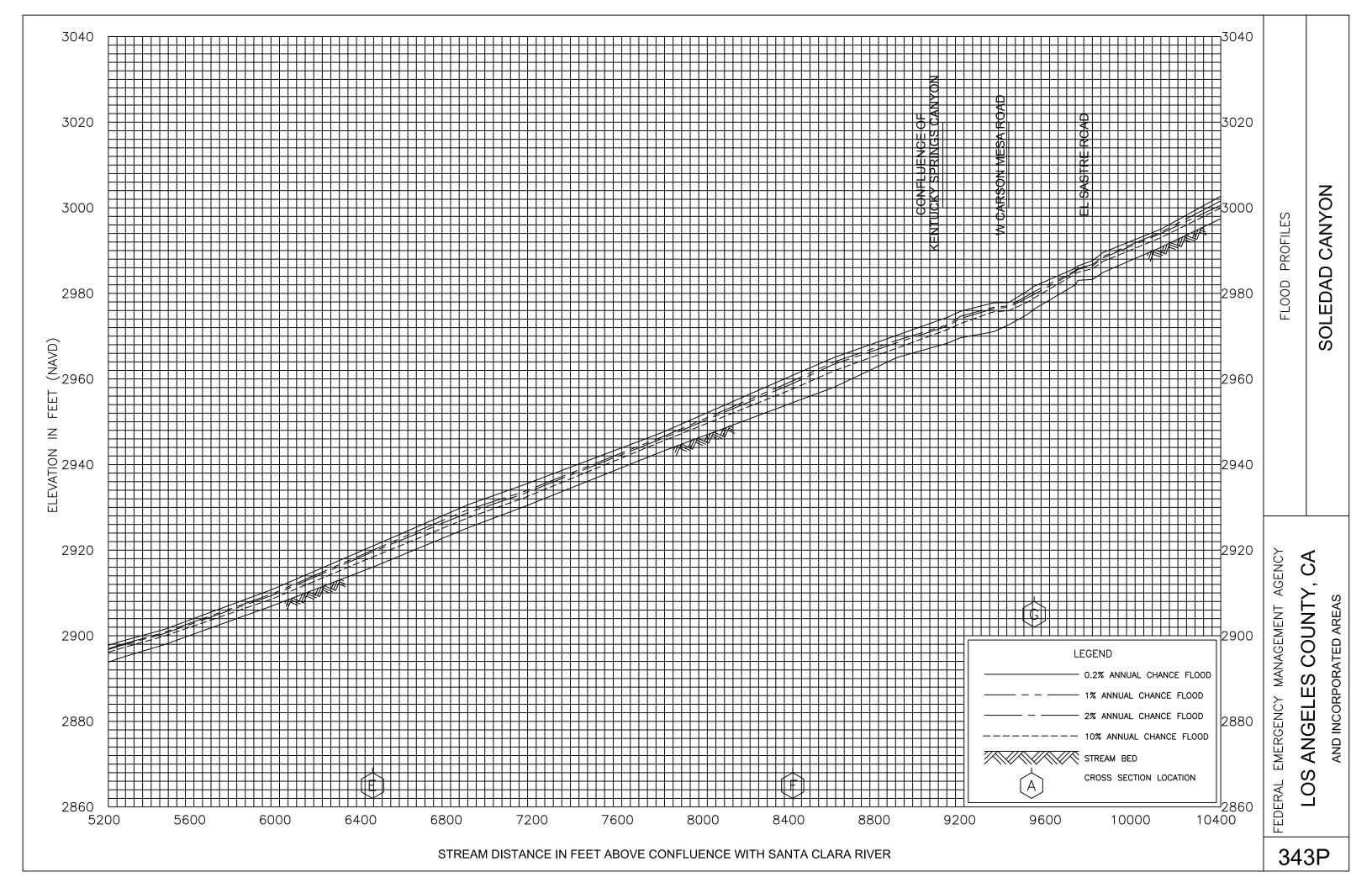


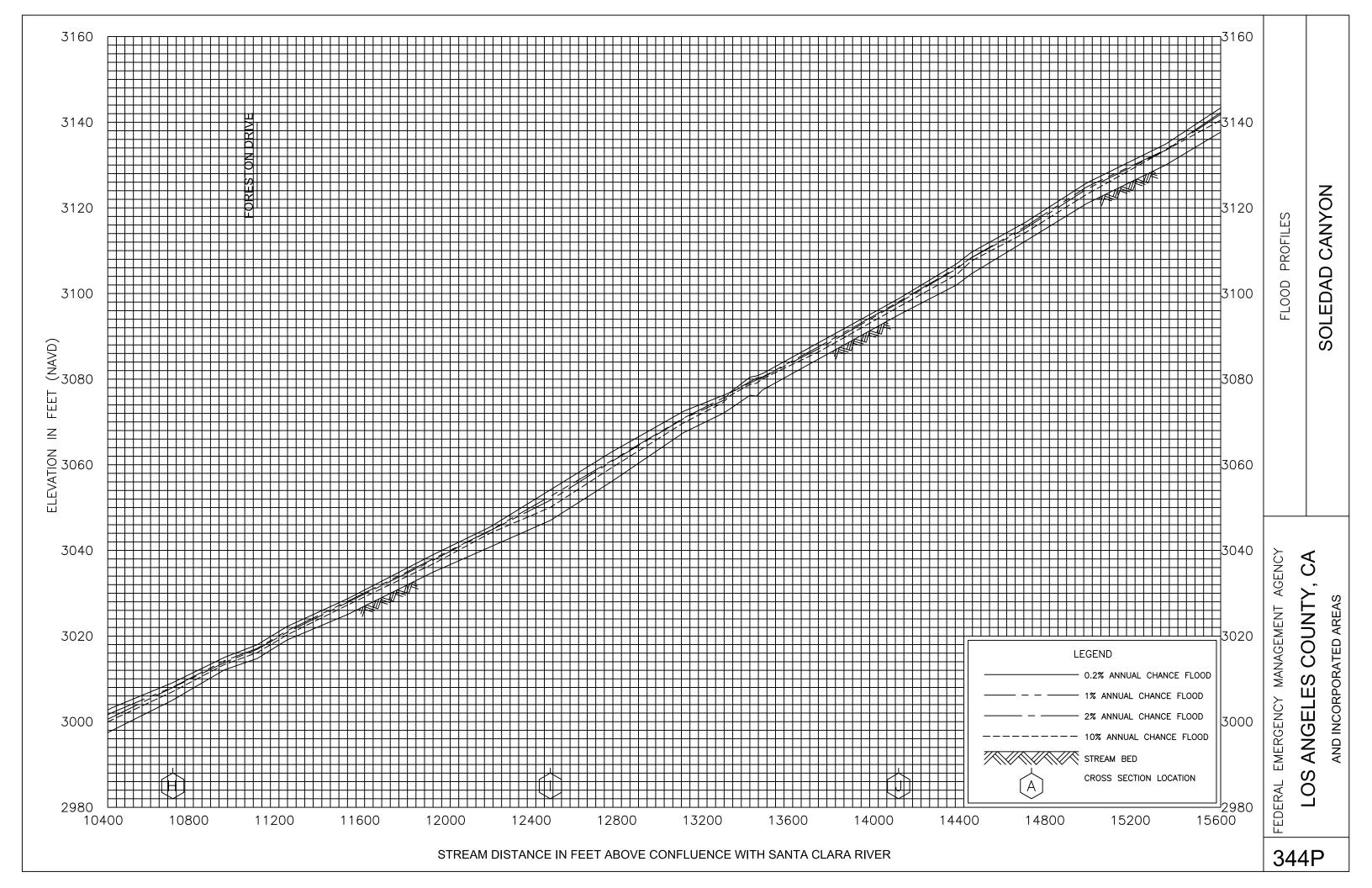


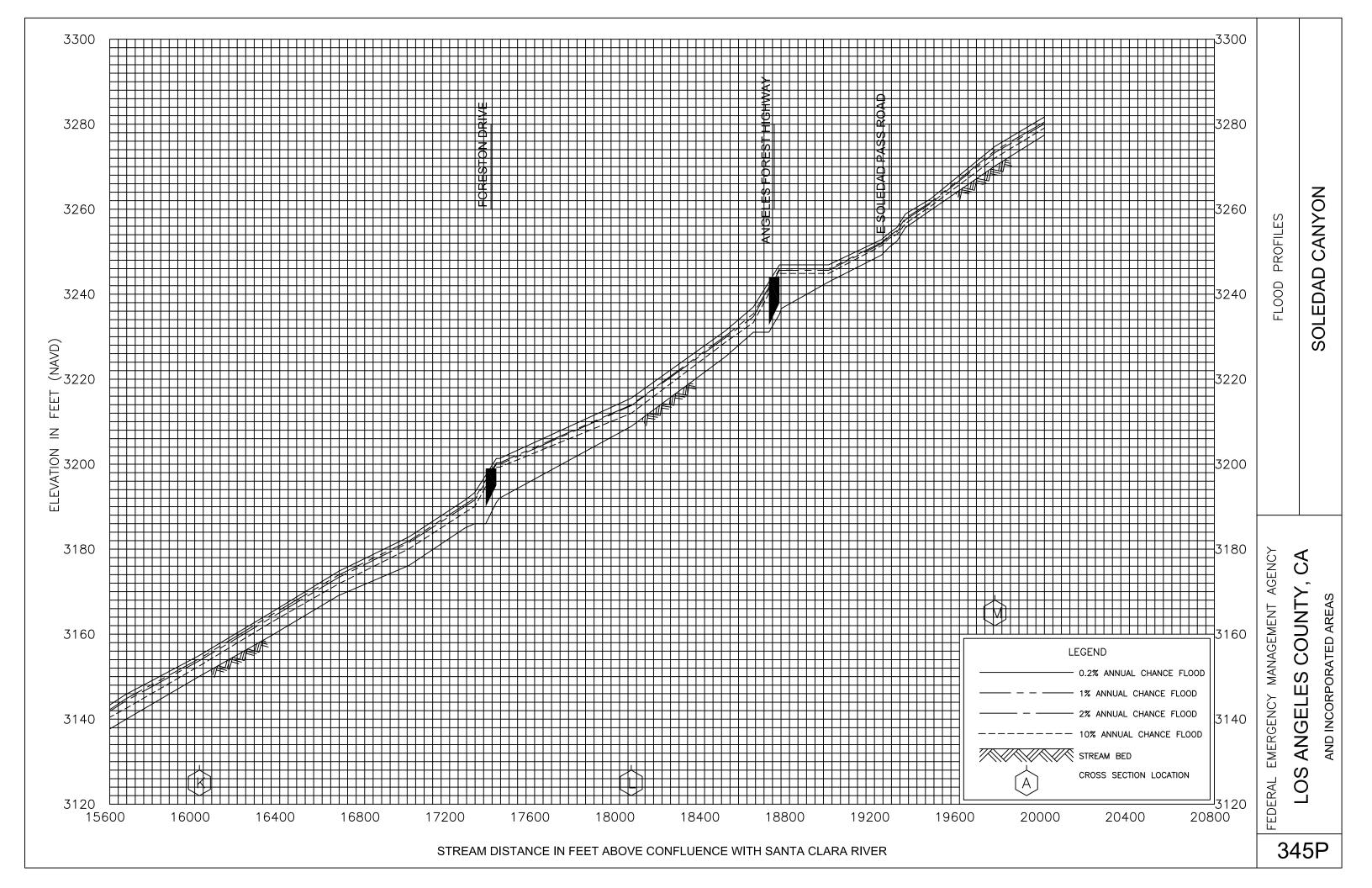
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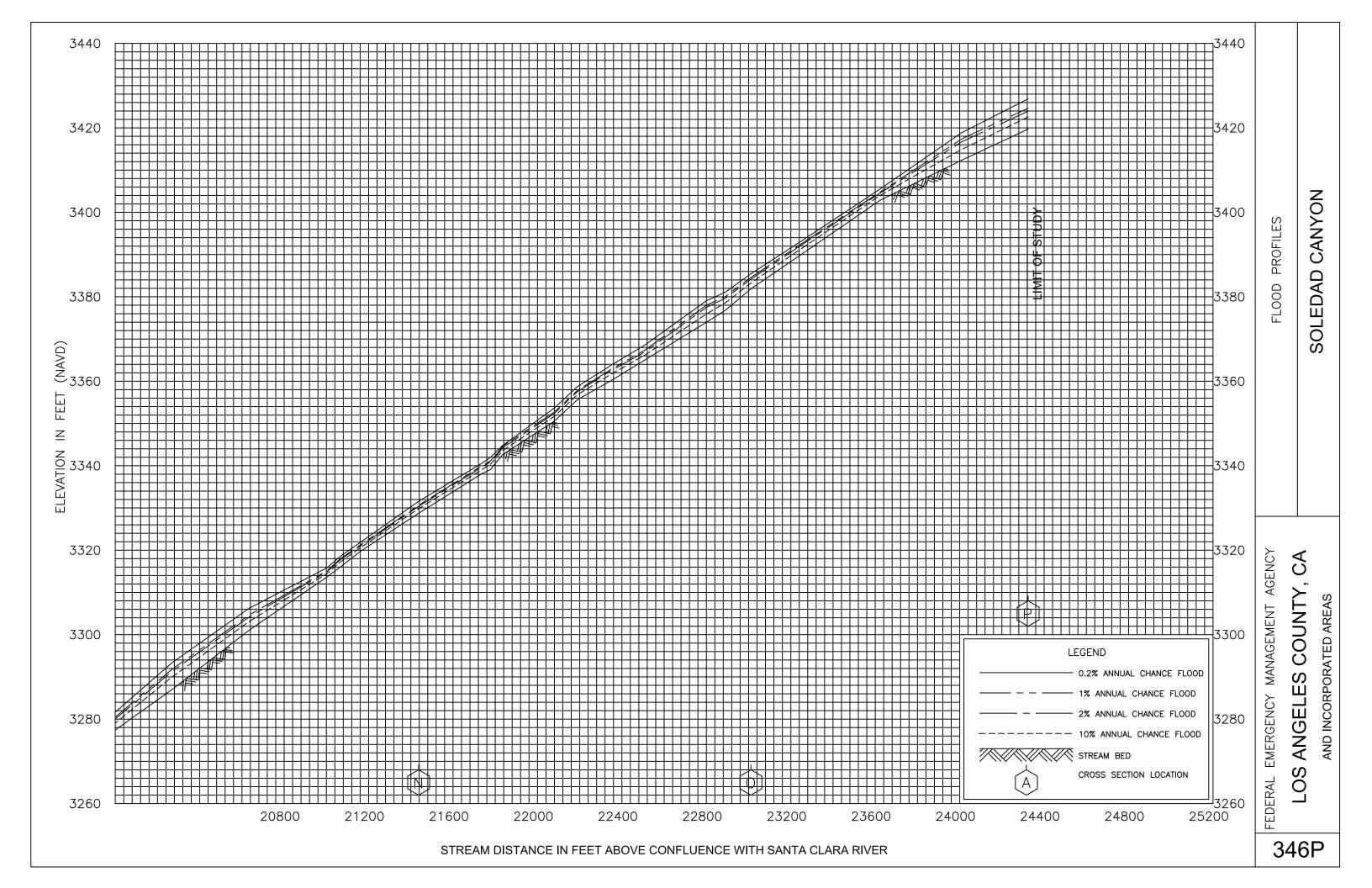
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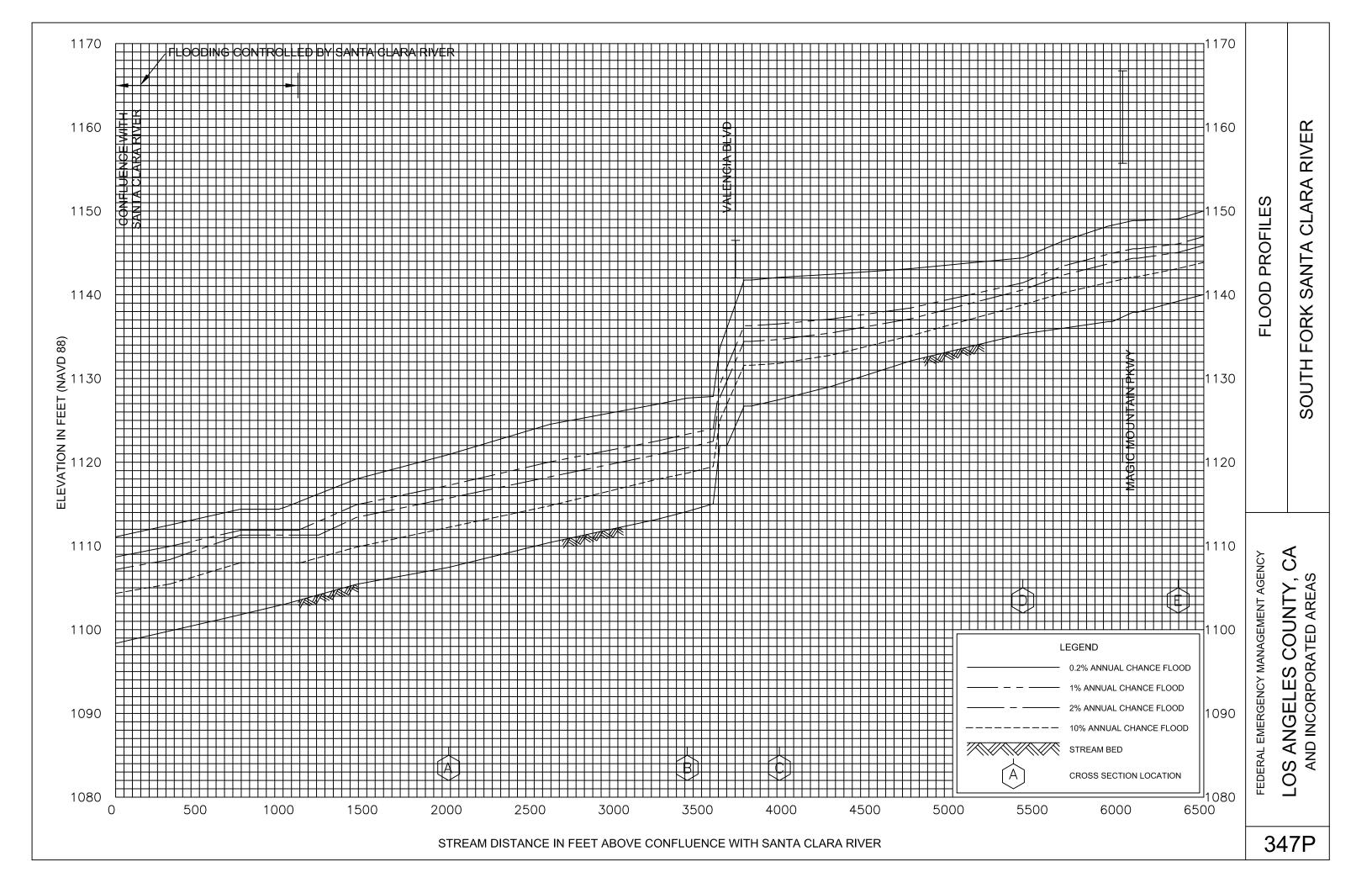


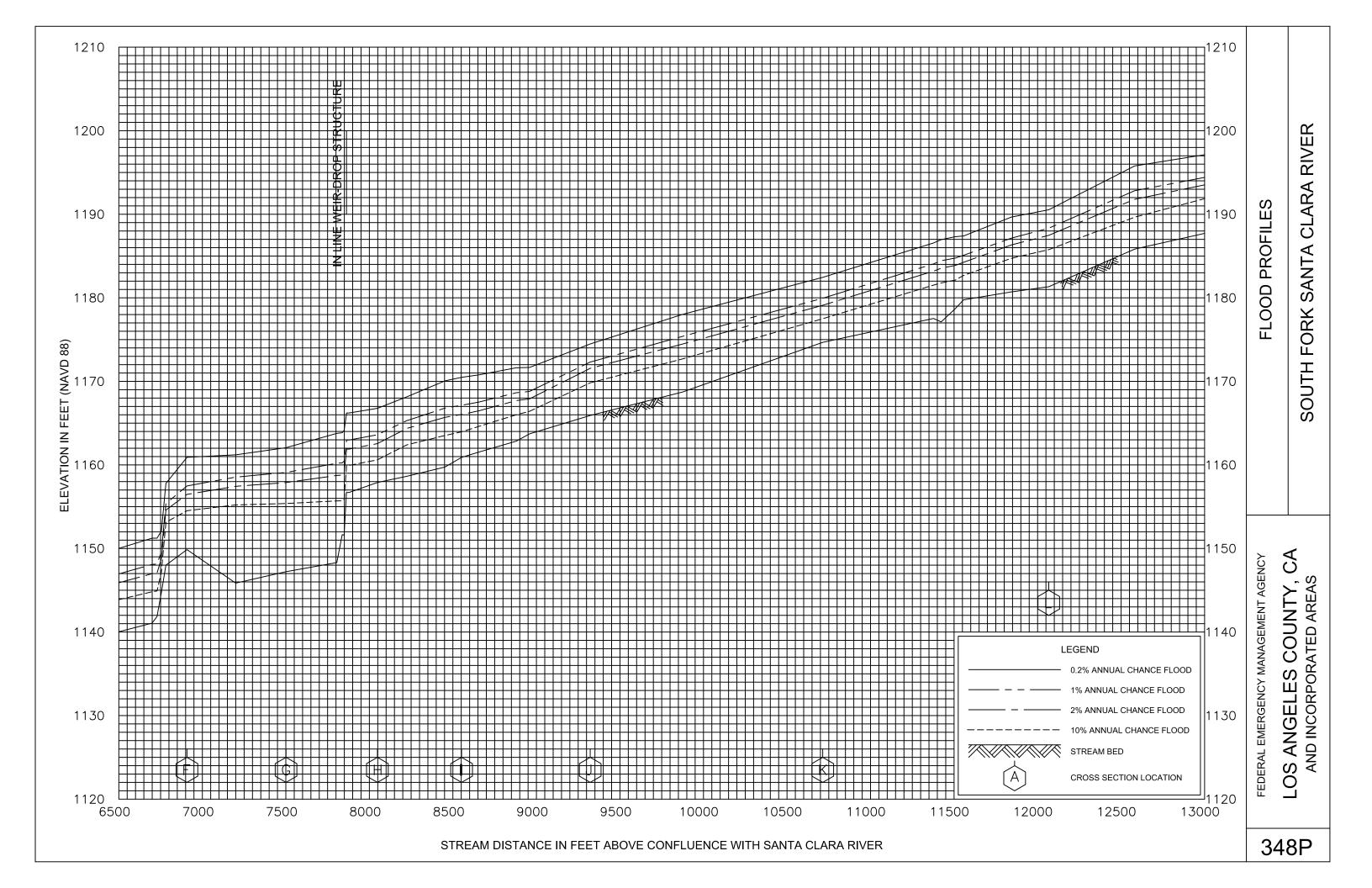


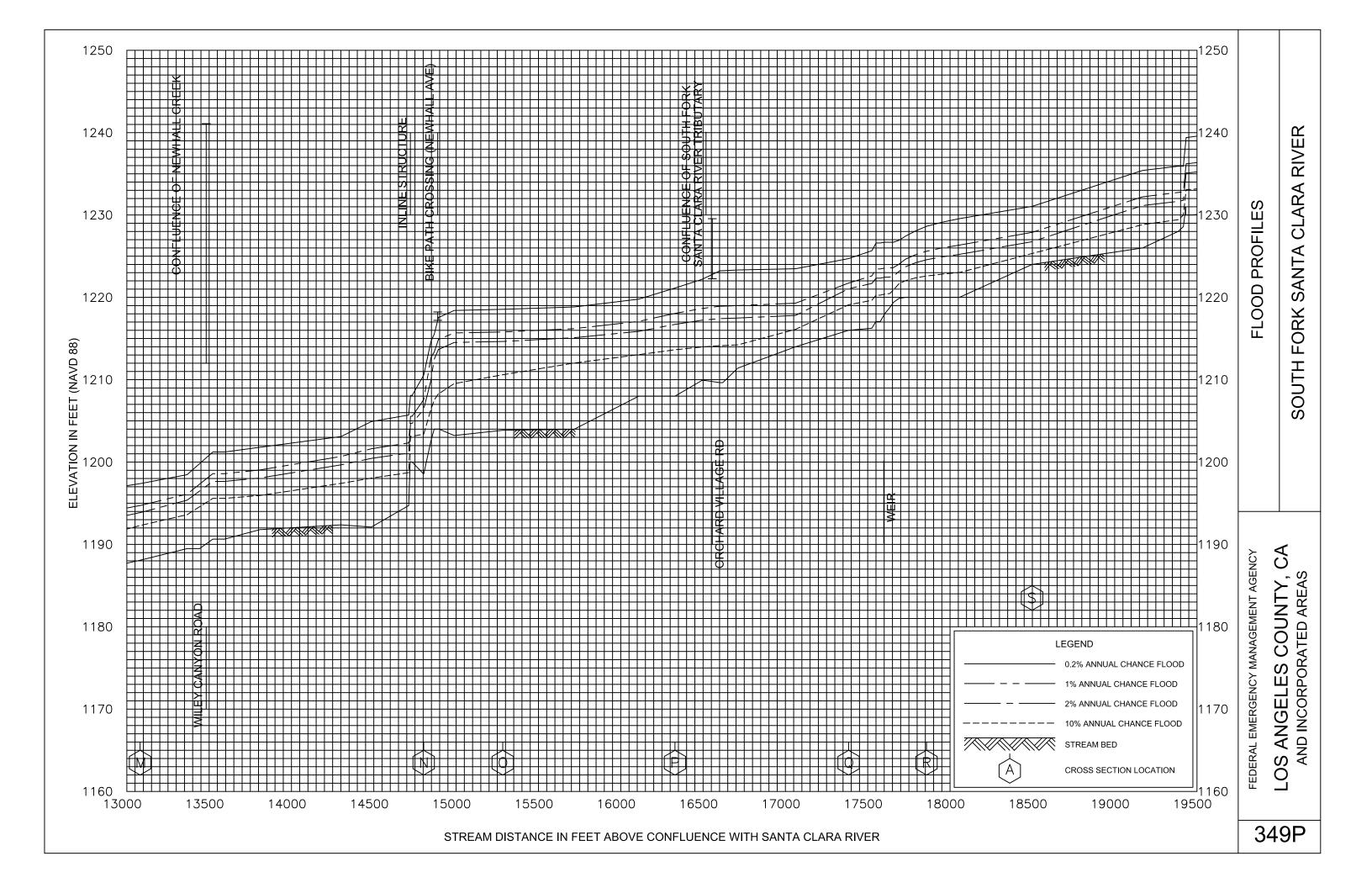


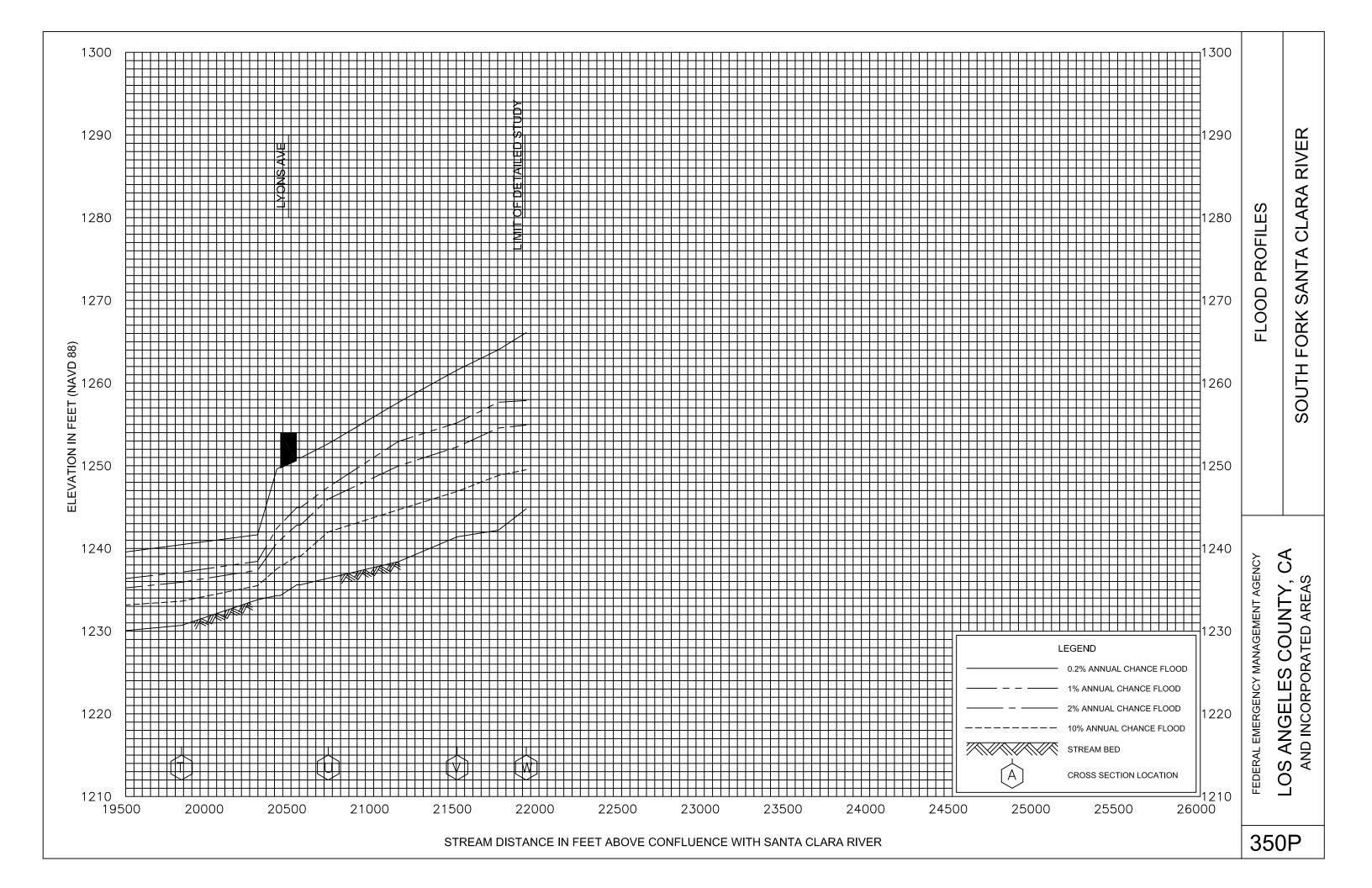


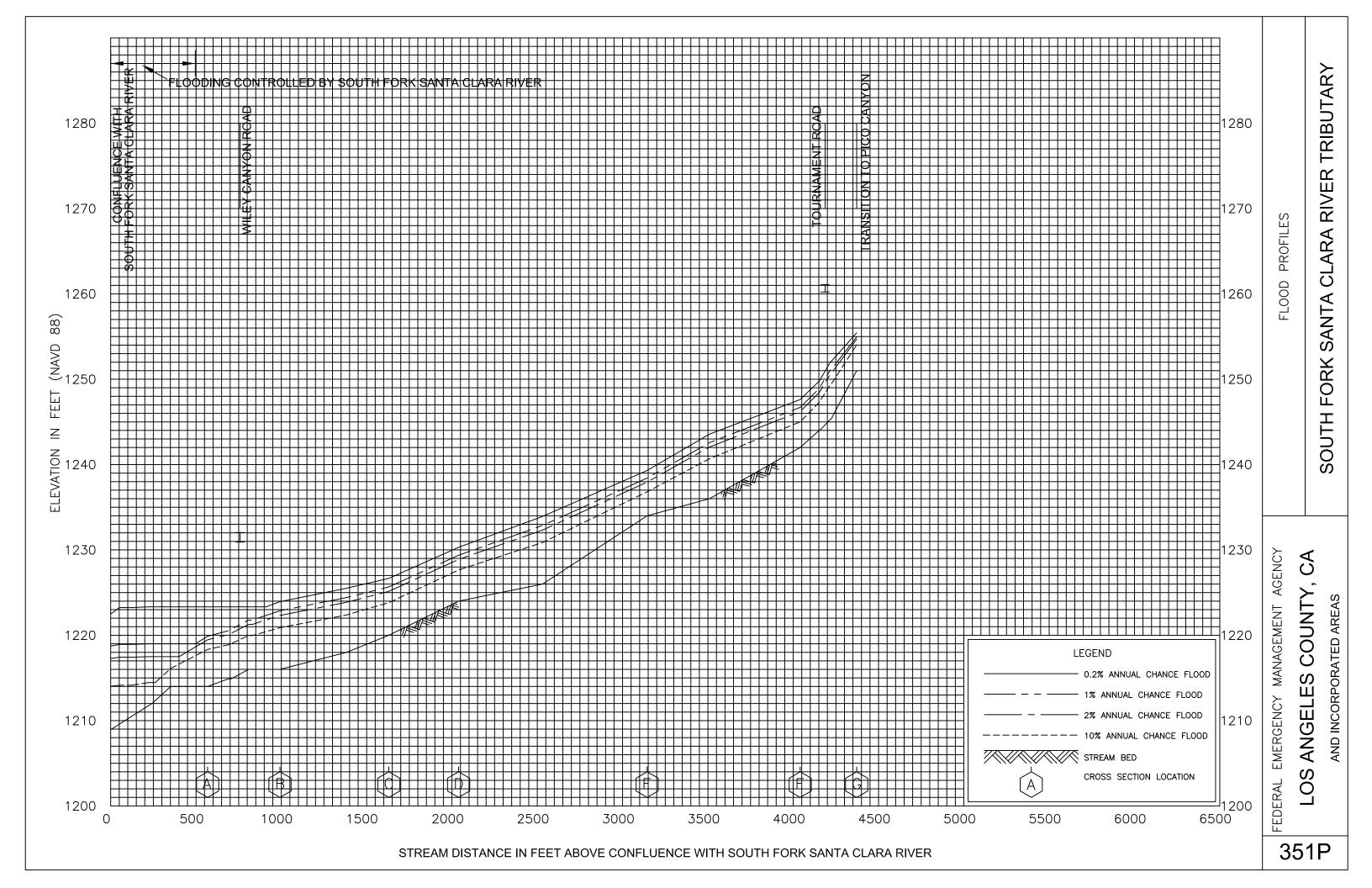


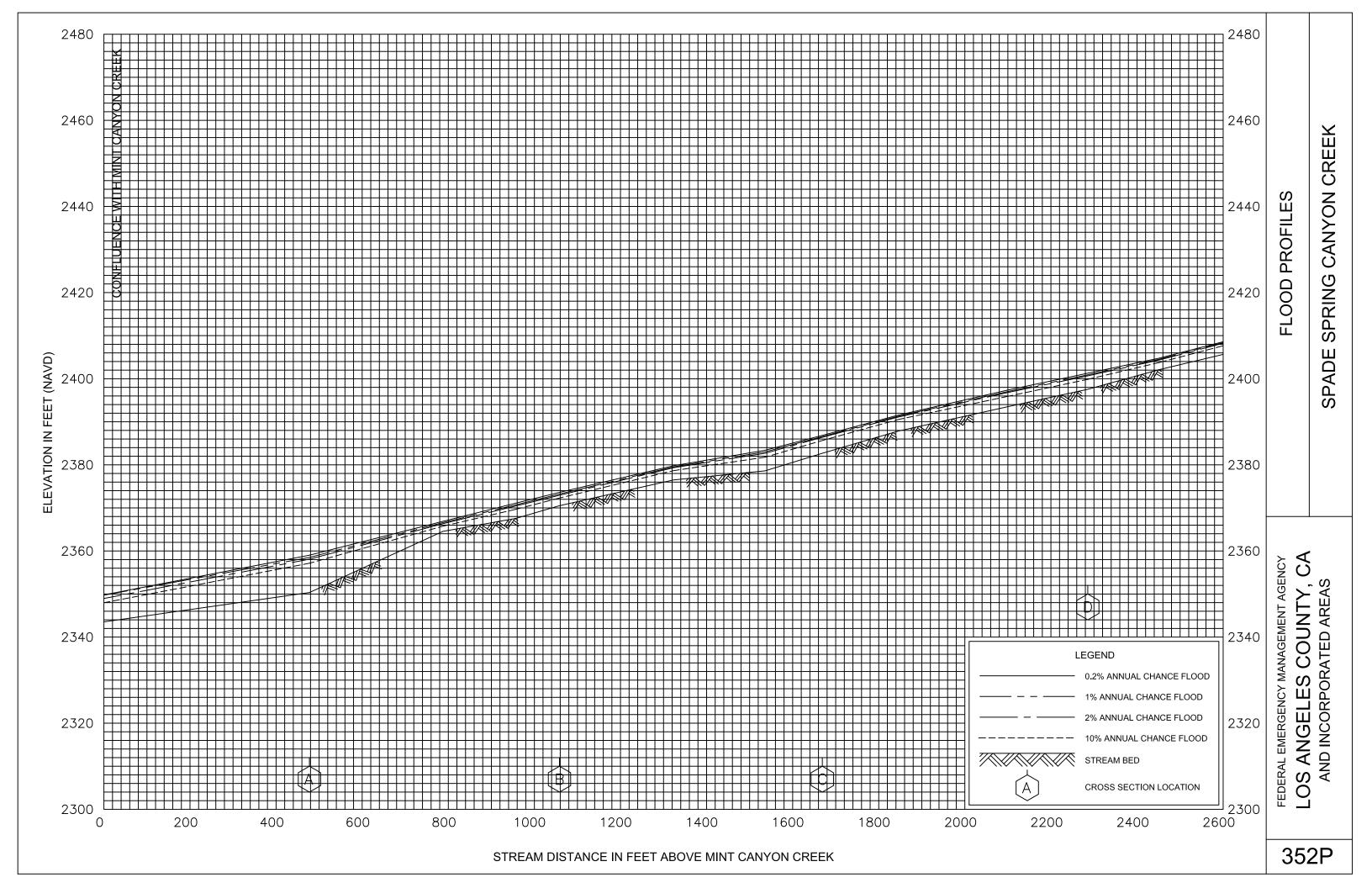


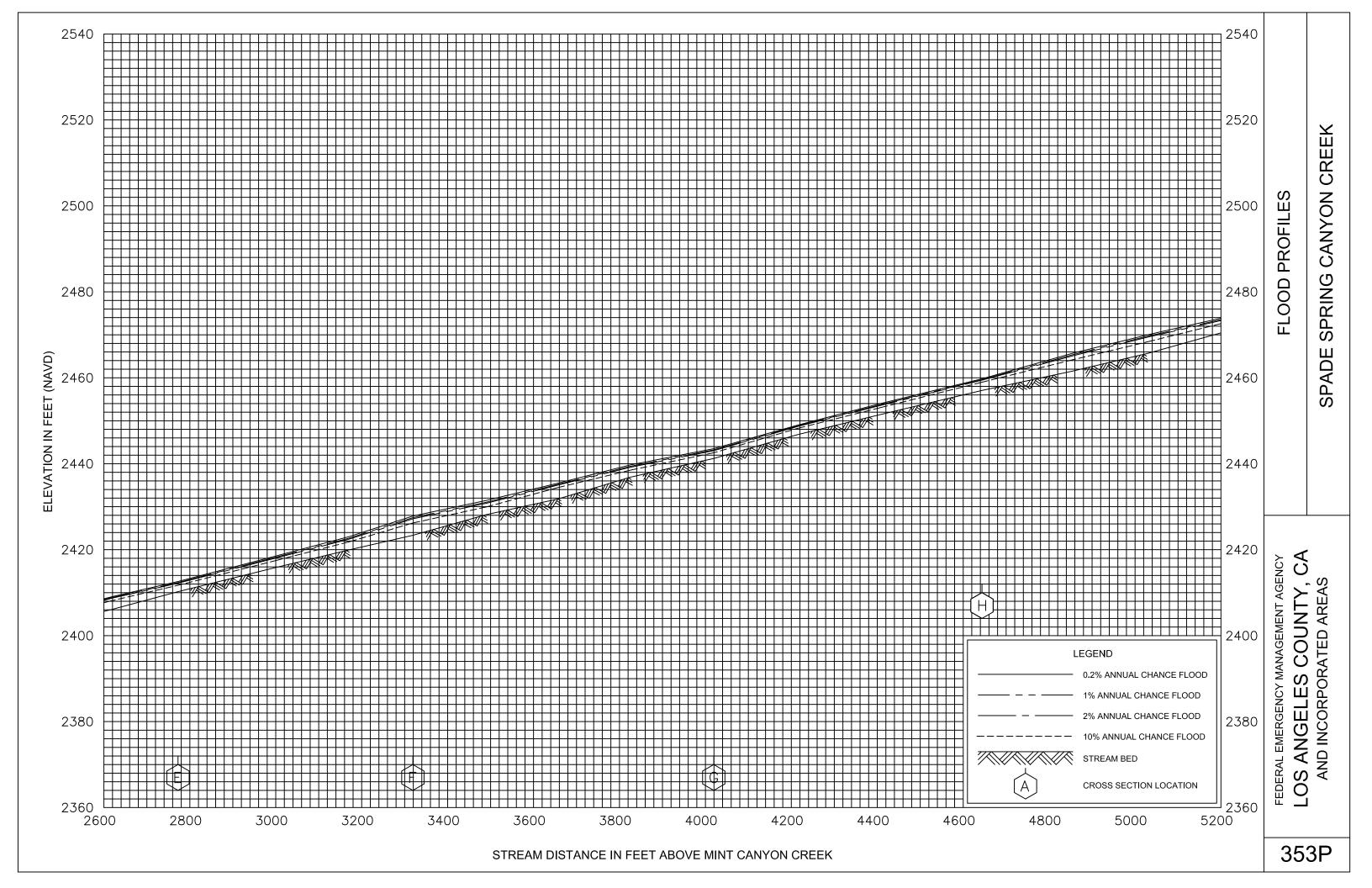


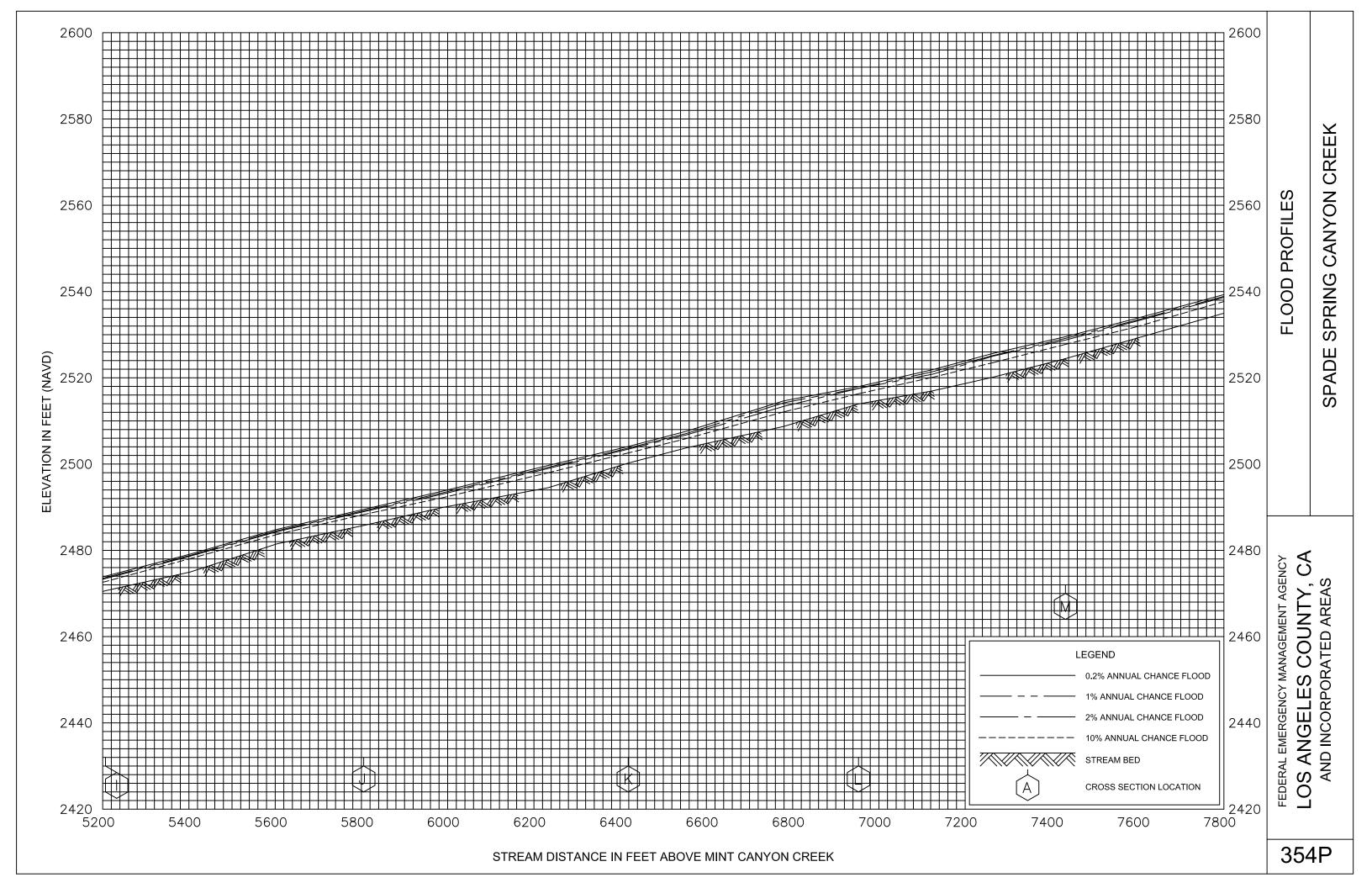


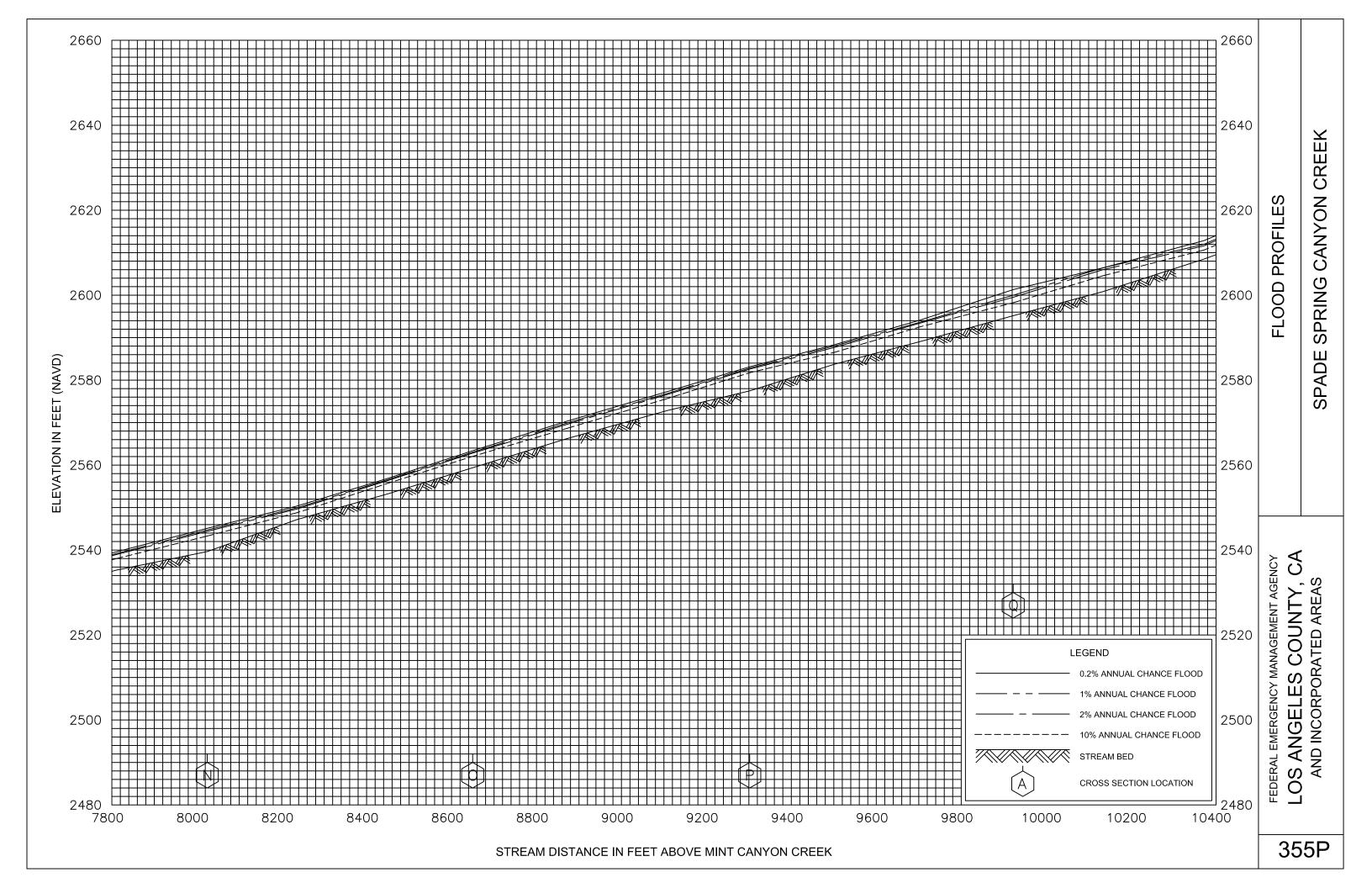


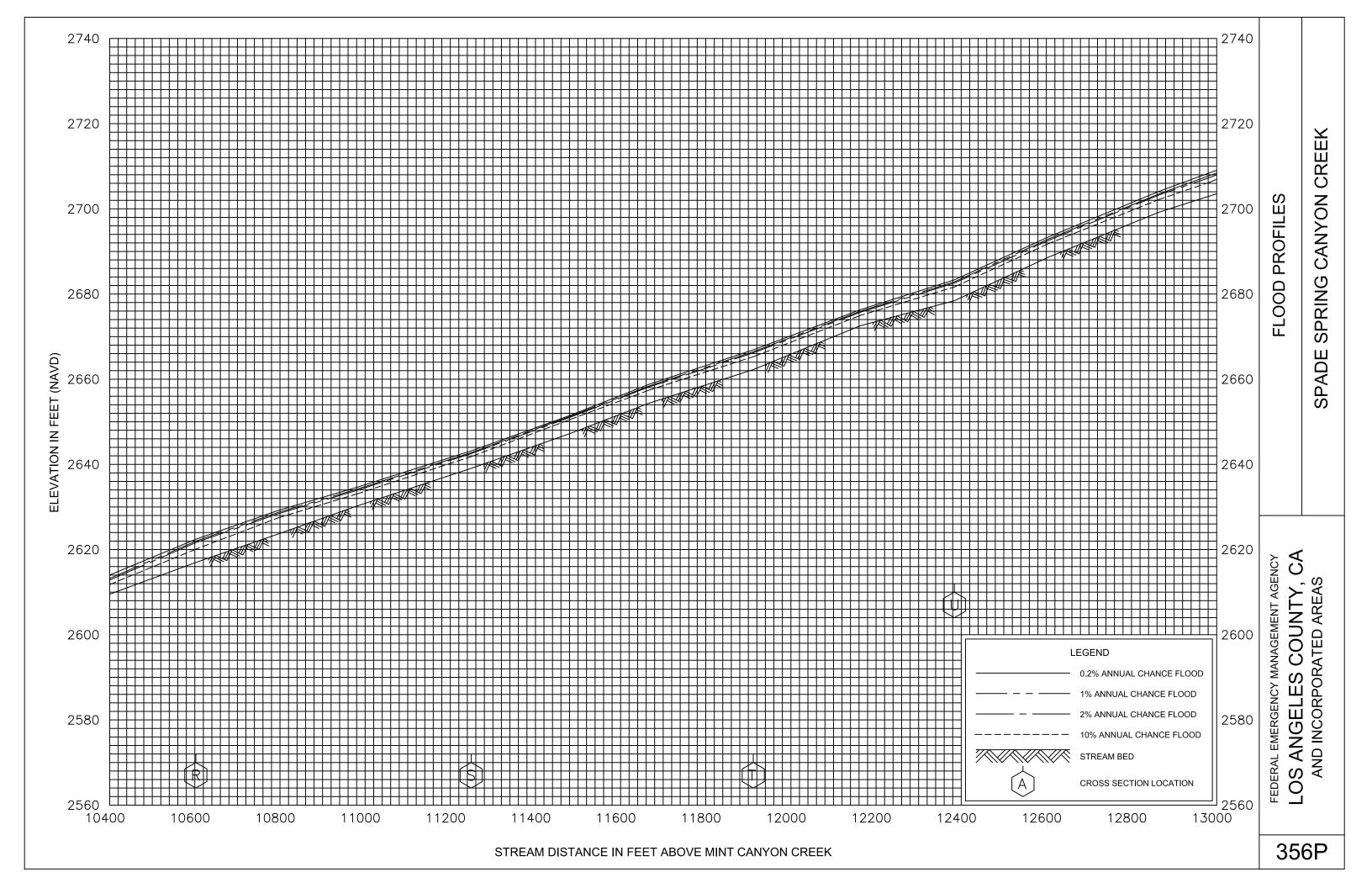


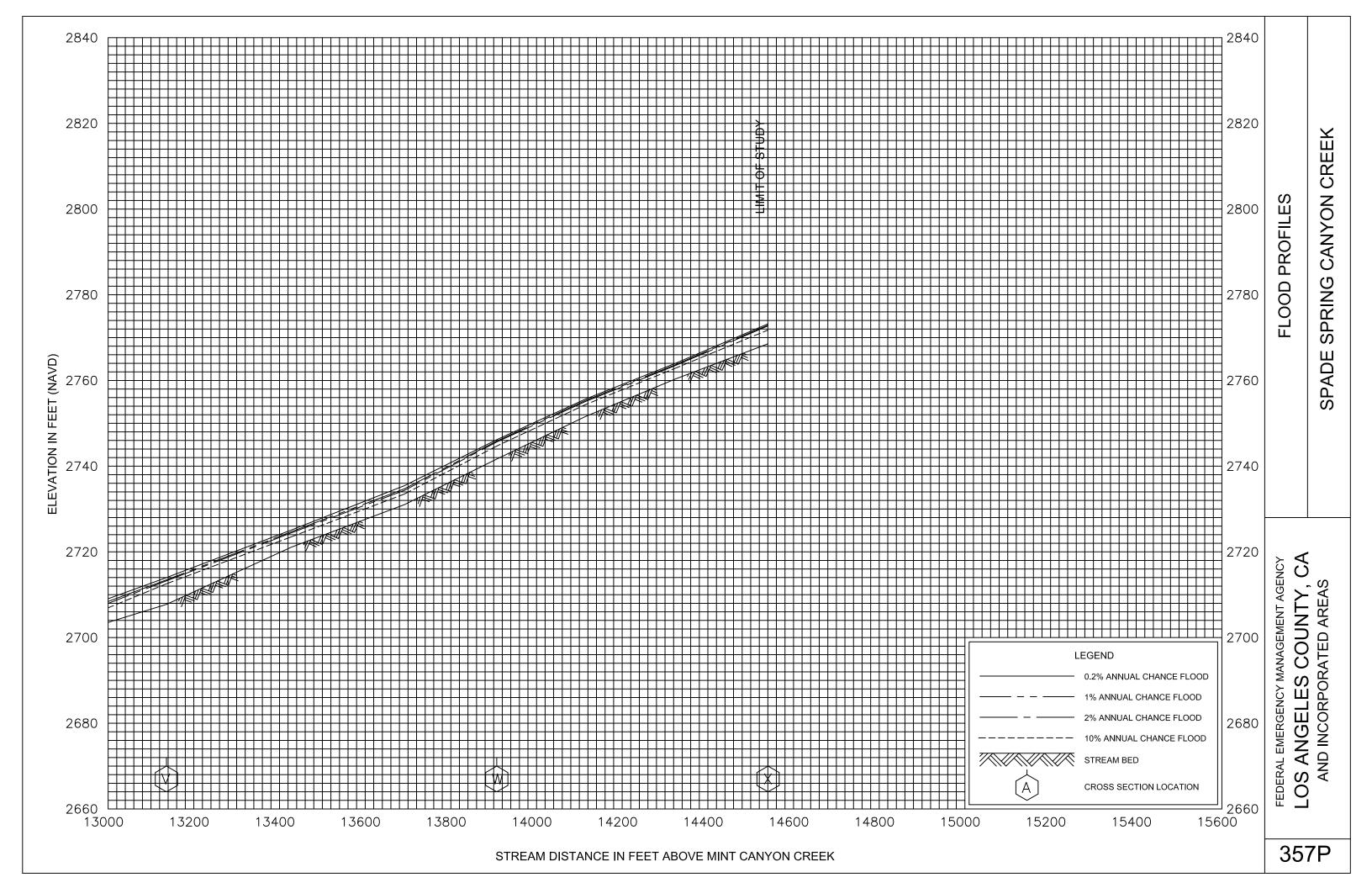


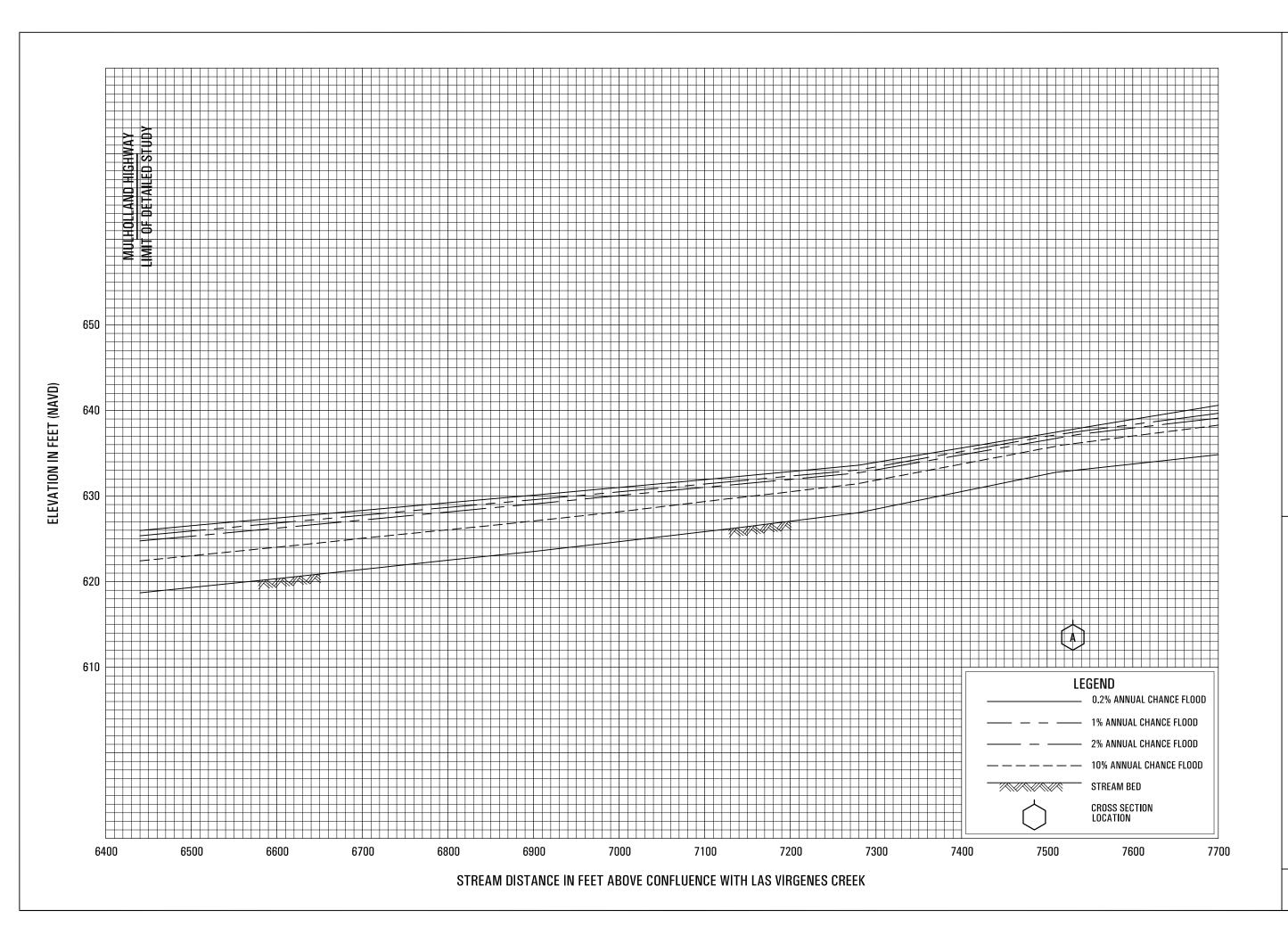






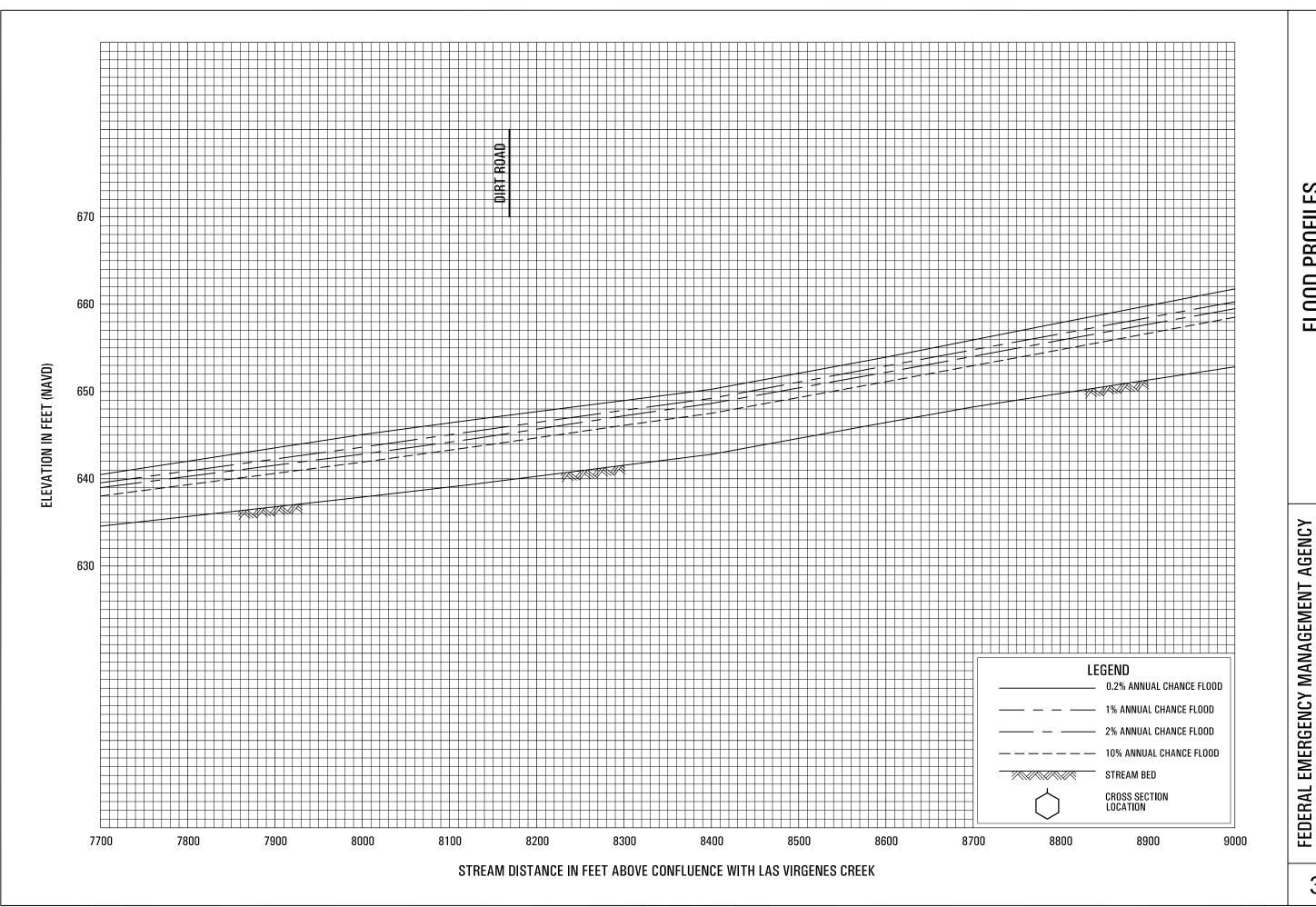






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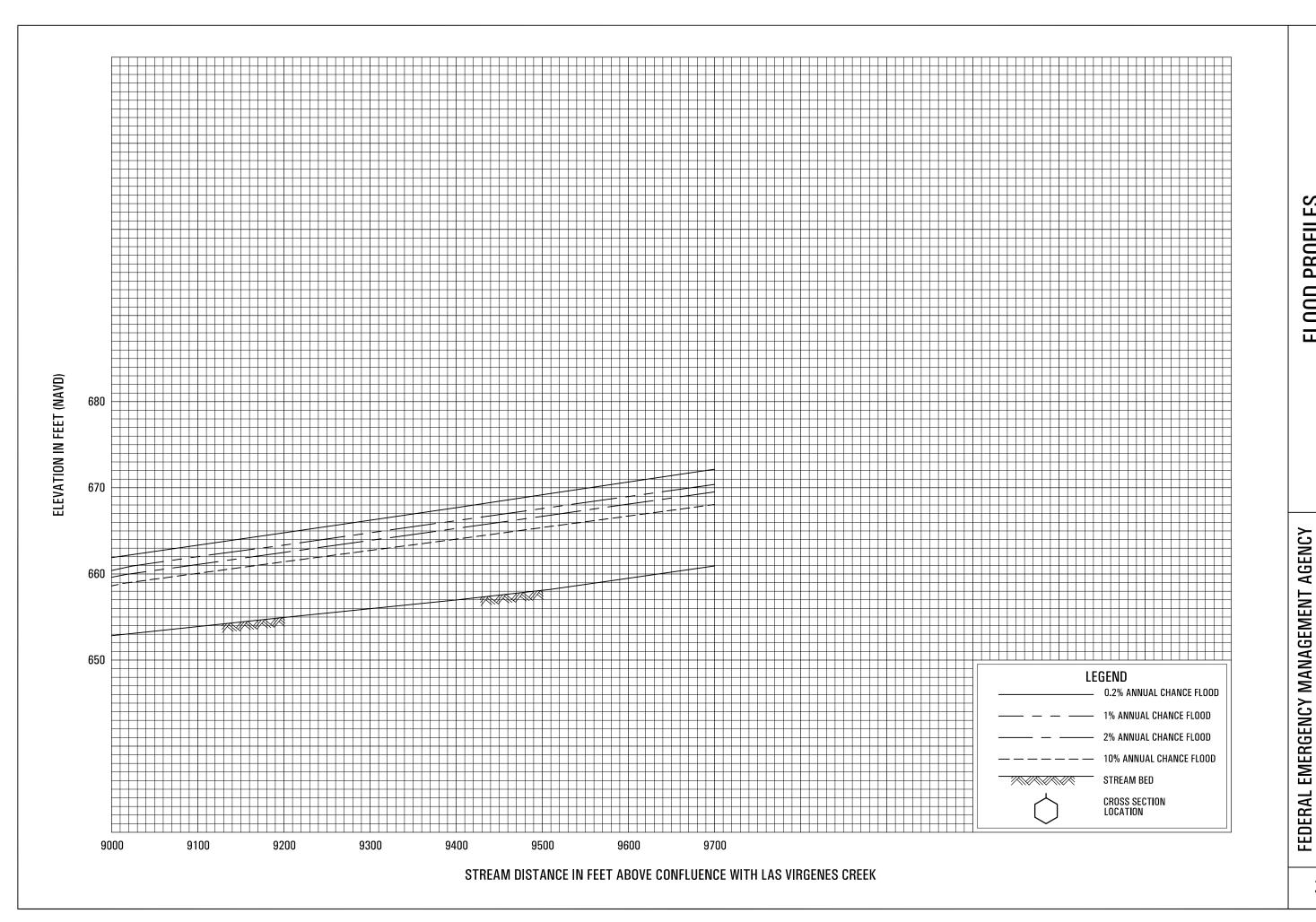
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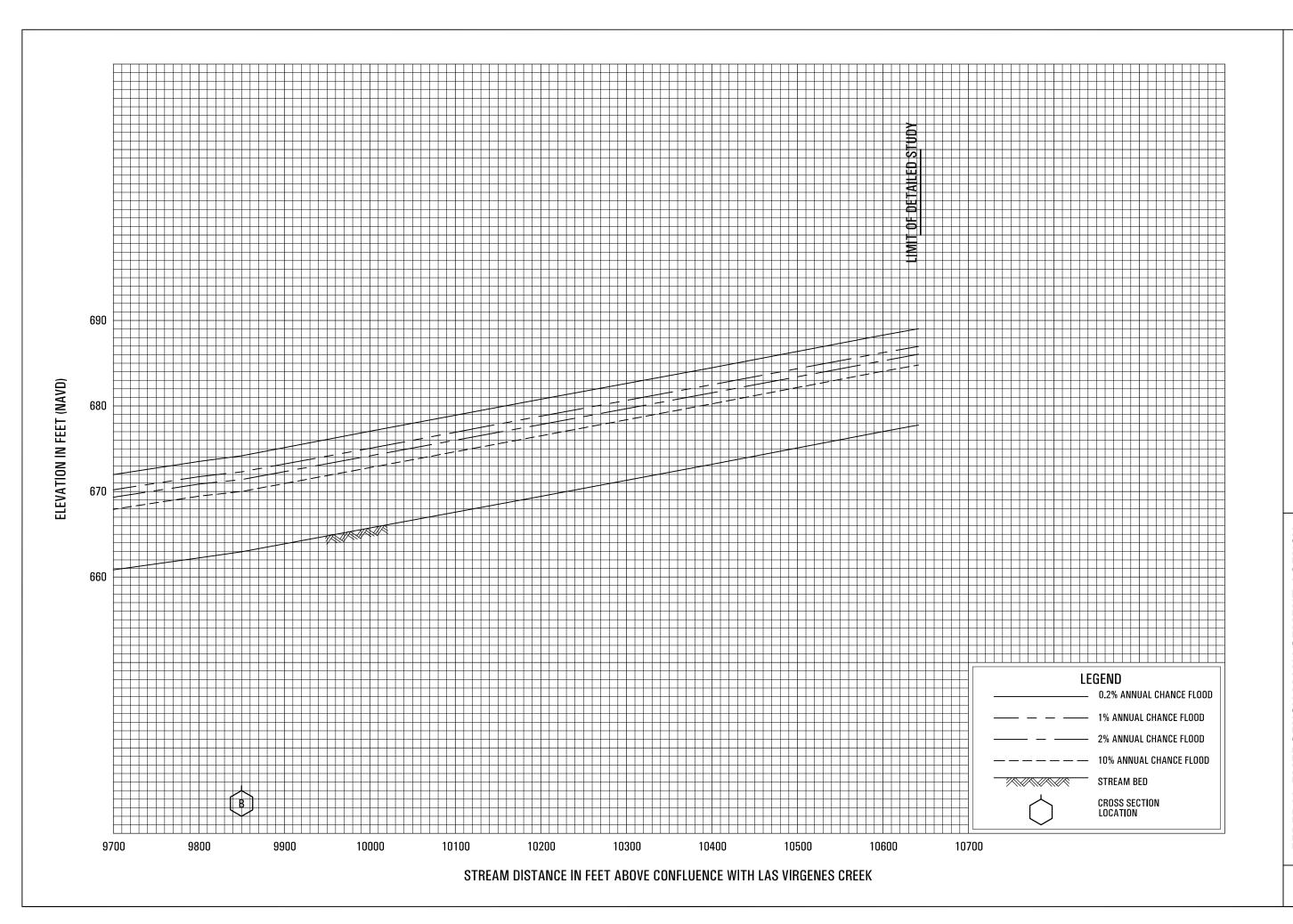


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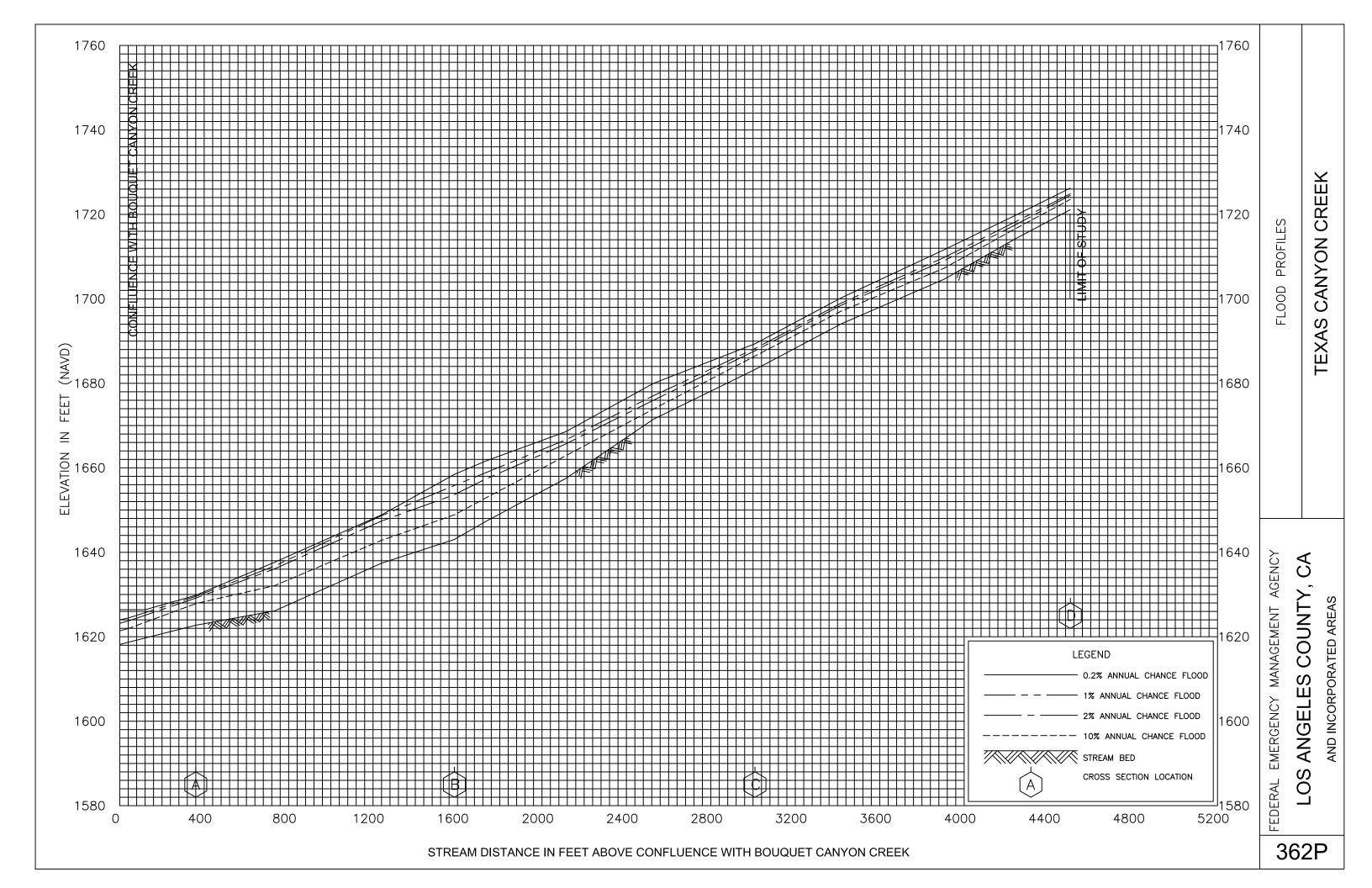
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## FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

**VOLUME 9 OF 9** 



# LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
AGOURA HILLS, CITY OF	065072	COMMERCE, CITY OF	060110
ALHAMBRA, CITY OF*	060095	COMPTON, CITY OF	060111
ARCADIA, CITY OF*	065014	COVINA, CITY OF*	065024
ARTESIA, CITY OF*	060097	CUDAHY, CITY OF	060657
AVALON, CITY OF	060098	CULVER CITY, CITY OF	060114
AZUSA, CITY OF	065015	DIAMOND BAR, CITY OF	060741
BALDWIN PARK, CITY OF*	060100	DOWNEY, CITY OF	060645
BELL, CITY OF*	060101	DUARTE, CITY OF*	065026
BELL GARDENS, CITY OF	060656	EL MONTE, CITY OF*	060658
BELLFLOWER, CITY OF	060102	EL SEGUNDO, CITY OF	060118
BEVERLY HILLS, CITY OF*	060655	GARDENA, CITY OF	060119
BRADBURY, CITY OF*	065017	GLENDALE, CITY OF	065030
BURBANK, CITY OF	065018	GLENDORA, CITY OF*	065031
CALABASAS, CITY OF	060749	HAWAIIAN GARDENS, CITY OF*	065032
CARSON, CITY OF	060107	HAWTHORNE, CITY OF*	060123
CERRITOS, CITY OF	060108	HERMOSA BEACH, CITY OF	060124
CLAREMONT, CITY OF*	060109	HIDDEN HILLS, CITY OF	060125

^{*}No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

FLOOD INSURANCE STUDY NUMBER

06037CV009F

Version Number 2.3.3.2



COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
HUNTINGTON PARK, CITY OF*	060126	PICO RIVERA, CITY OF	060148
INDUSTRY, CITY OF*	065035	POMONA, CITY OF*	060149
INGLEWOOD, CITY OF*	065036	RANCHO PALOS VERDES, CITY OF	060464
IRWINDALE, CITY OF*	060129	REDONDO BEACH, CITY OF	060150
LA CANADA FLINTRIDGE, CITY OF*	060669	ROLLING HILLS, CITY OF*	060151
LA HABRA HEIGHTS, CITY OF*	060701	ROLLING HILLS ESTATES, CITY OF*	065054
LA MIRADA, CITY OF	060131	ROSEMEAD, CITY OF*	060153
LA PUENTE*, CITY OF	065039	SAN DIMAS, CITY OF	060154
LA VERNE, CITY OF	060133	SAN FERNANDO, CITY OF	060628
LAKEWOOD, CITY OF	060130	SAN GABRIEL, CITY OF*	065055
LANCASTER, CITY OF	060672	SAN MARINO, CITY OF*	065057
LAWNDALE, CITY OF*	060134	SANTA CLARITA, CITY OF	060729
LOMITA, CITY OF*	060135	SANTA FE SPRINGS, CITY OF	060158
LONG BEACH, CITY OF	060136	SANTA MONICA, CITY OF	060159
LOS ANGELES, CITY OF	060137	SIERRA MADRE, CITY OF*	065059
LOS ANGELES COUNTY UNINCORPORATED AREAS	065043	SIGNAL HILL, CITY OF*	060161
LYNWOOD, CITY OF	060635	SOUTH EL MONTE, CITY OF*	060162
MALIBU, CITY OF	060745	SOUTH GATE, CITY OF	060163
MANHATTAN BEACH, CITY OF	060138	SOUTH PASADENA, CITY OF*	065061
MAYWOOD, CITY OF*	060651	TEMPLE CITY, CITY OF*	060653
MONROVIA, CITY OF*	065046	TORRANCE, CITY OF	060165
MONTEBELLO, CITY OF	060141	VERNON, CITY OF*	060166
MONTEREY PARK, CITY OF*	065047	WALNUT, CITY OF*	065069
NORWALK, CITY OF	060652	WEST COVINA, CITY OF	060666
PALMDALE, CITY OF	060144	WEST HOLLYWOOD, CITY OF*	060720
PALOS VERDES ESTATES, CITY OF	060145	WESTLAKE VILLAGE, CITY OF	060744
PARAMOUNT, CITY OF	065049	WHITTIER, CITY OF	060169
PASADENA, CITY OF*	065050		

^{*}No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

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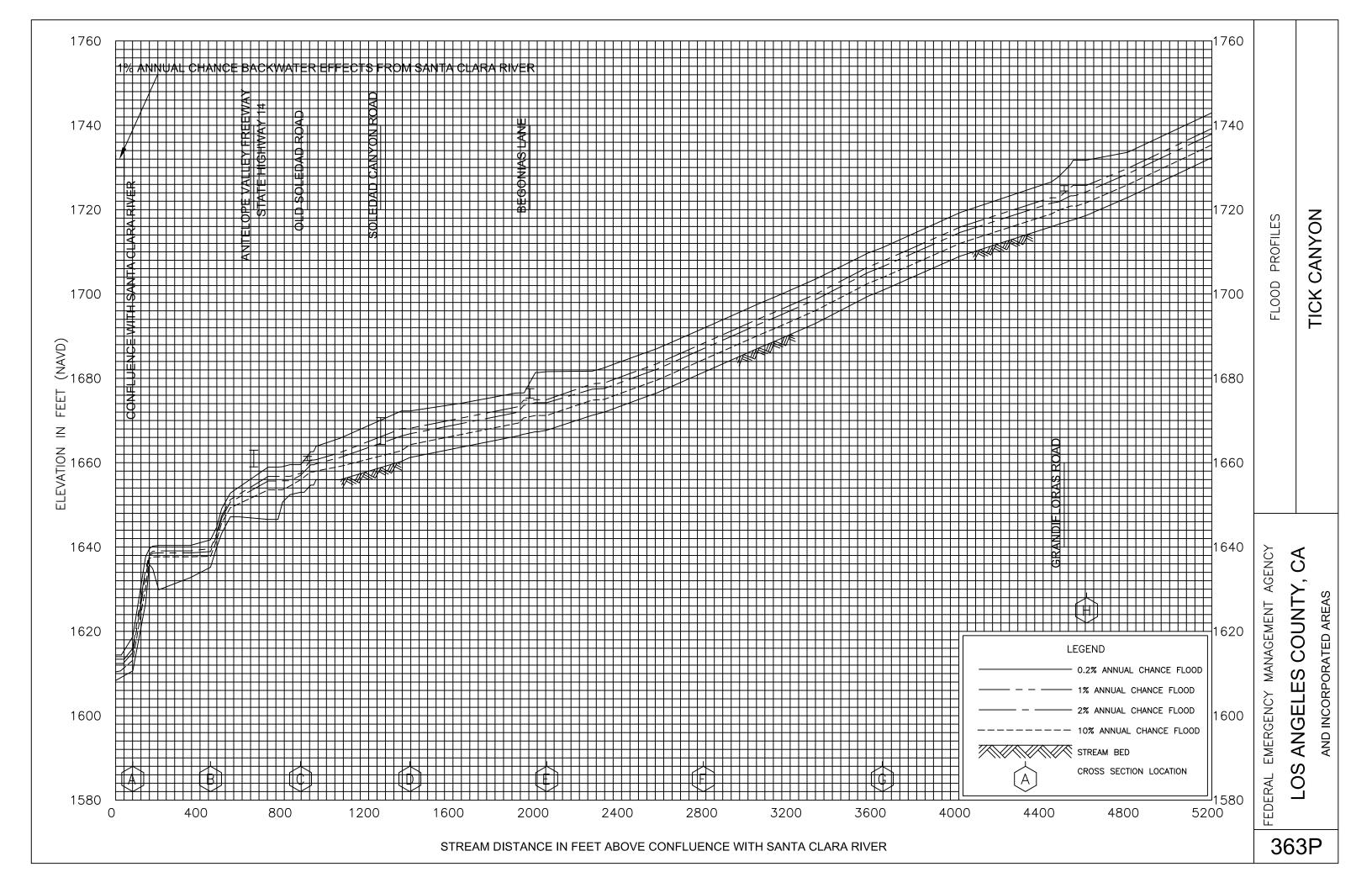
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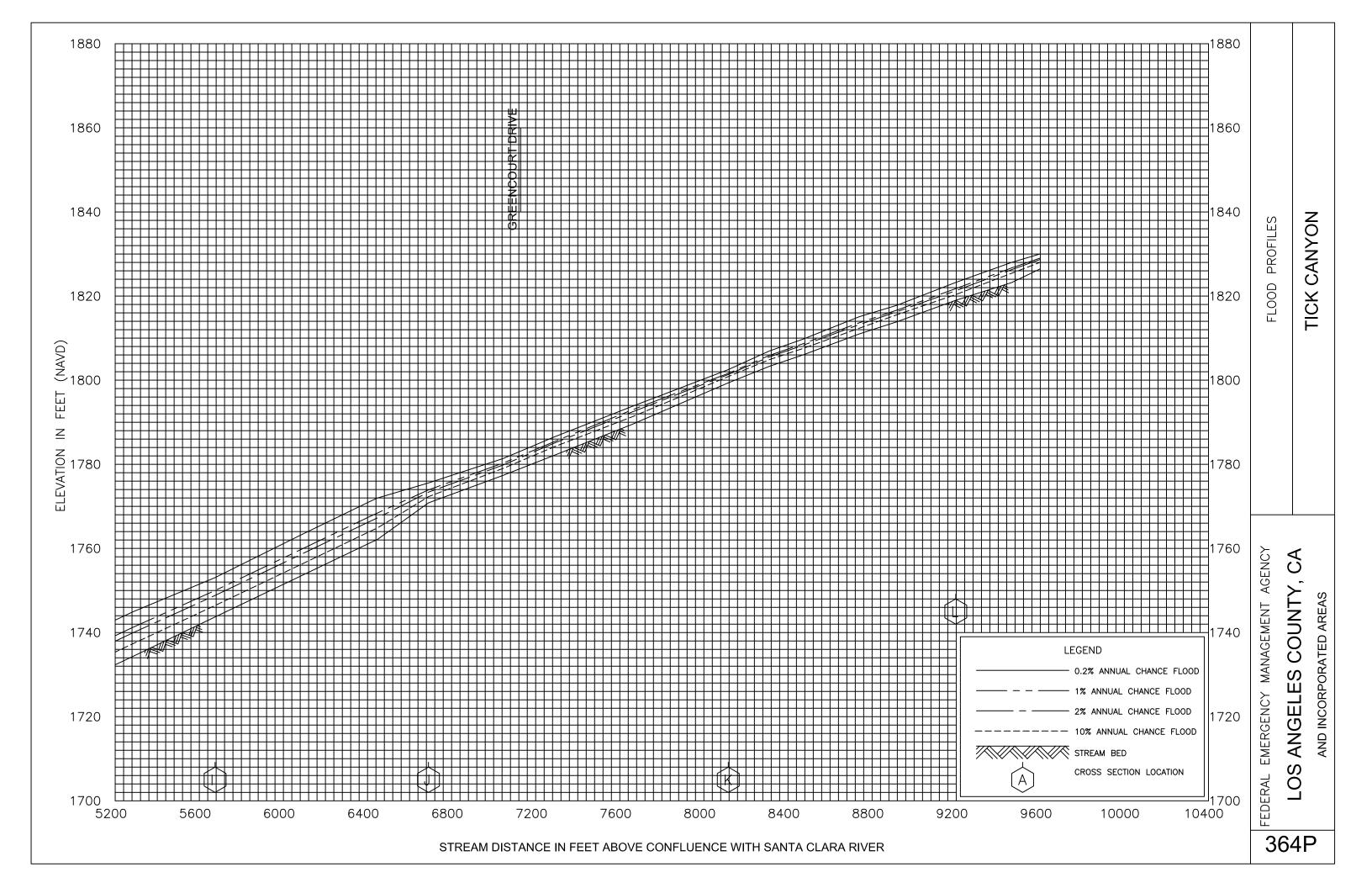
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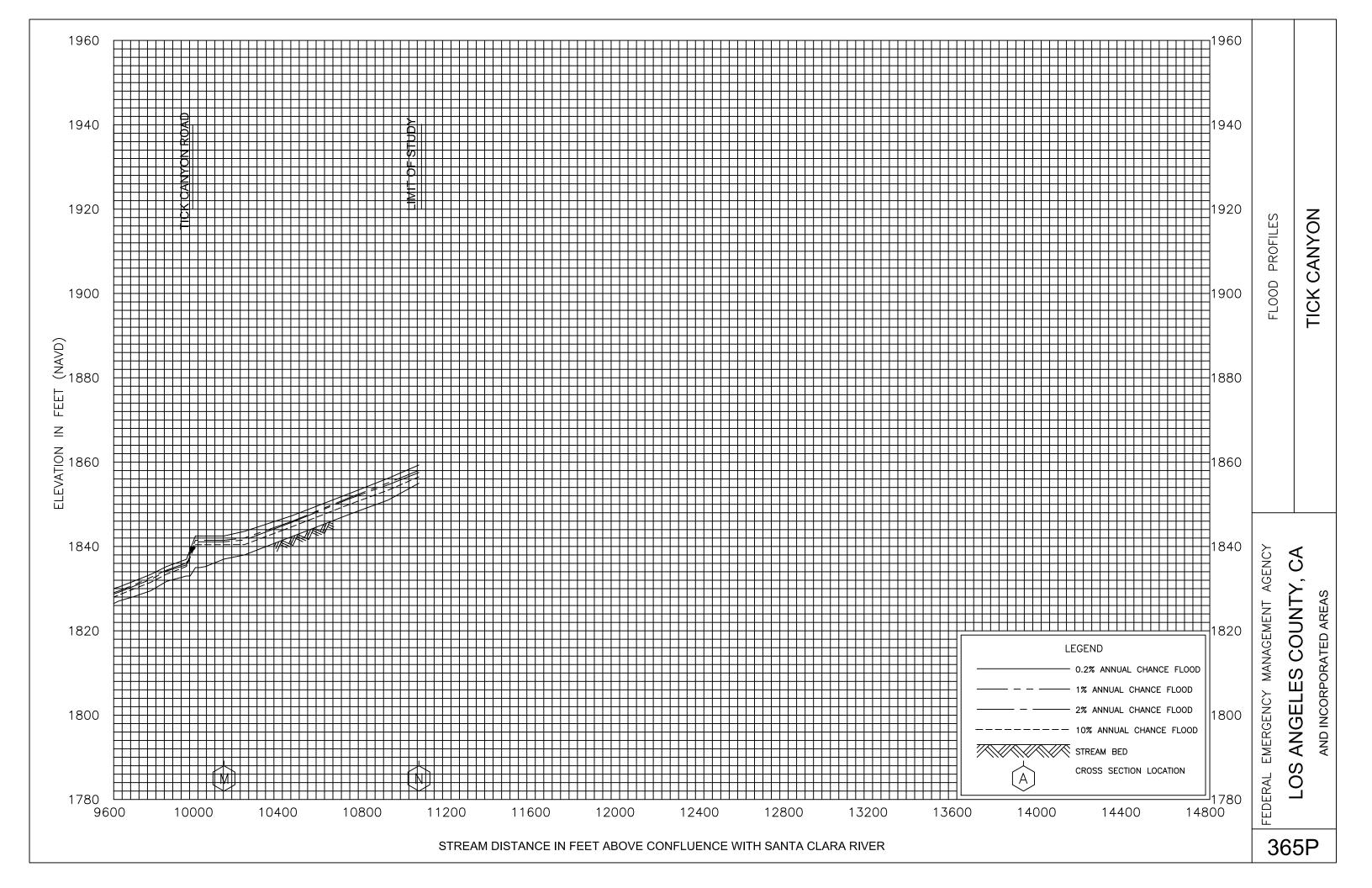
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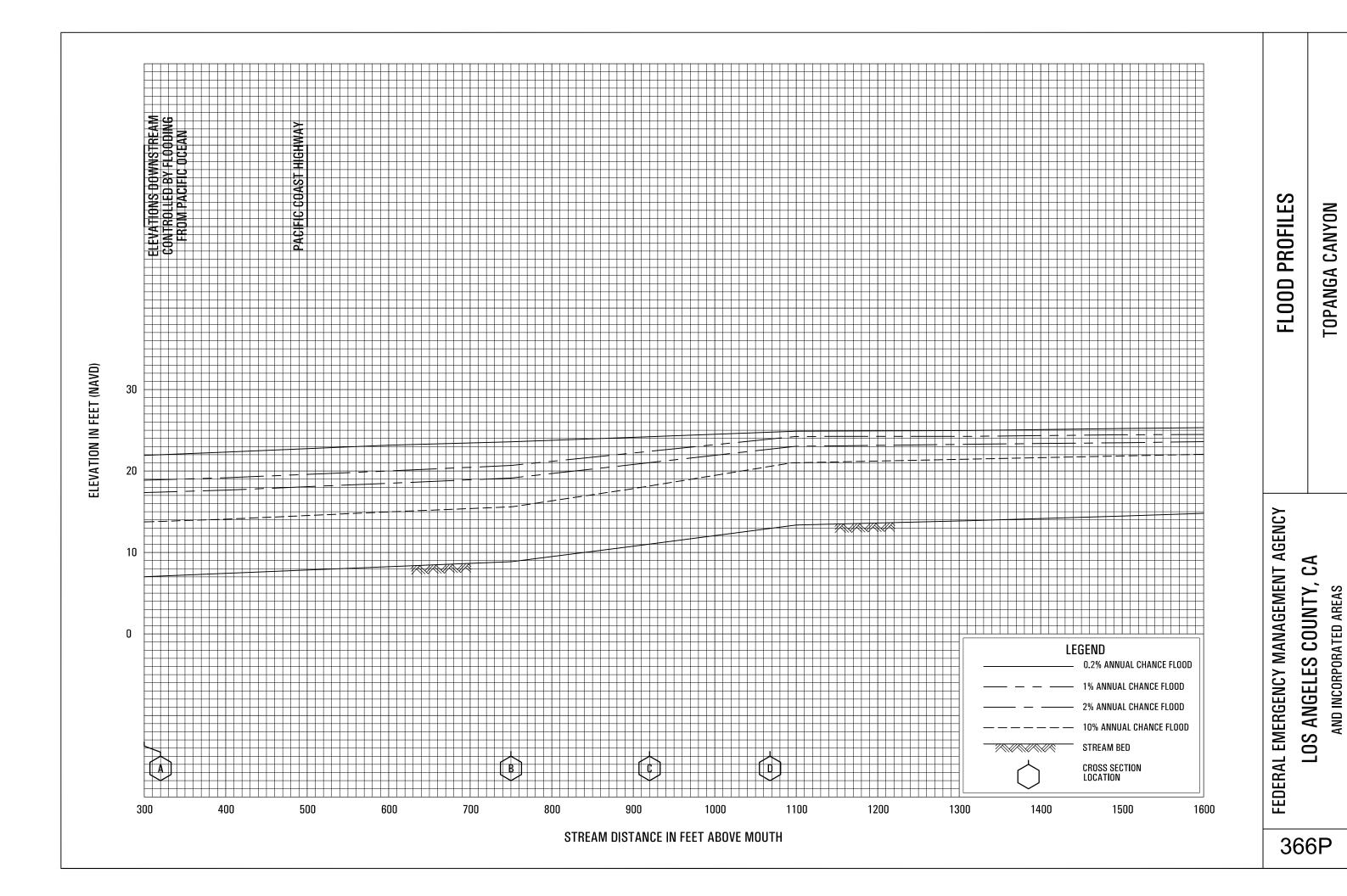
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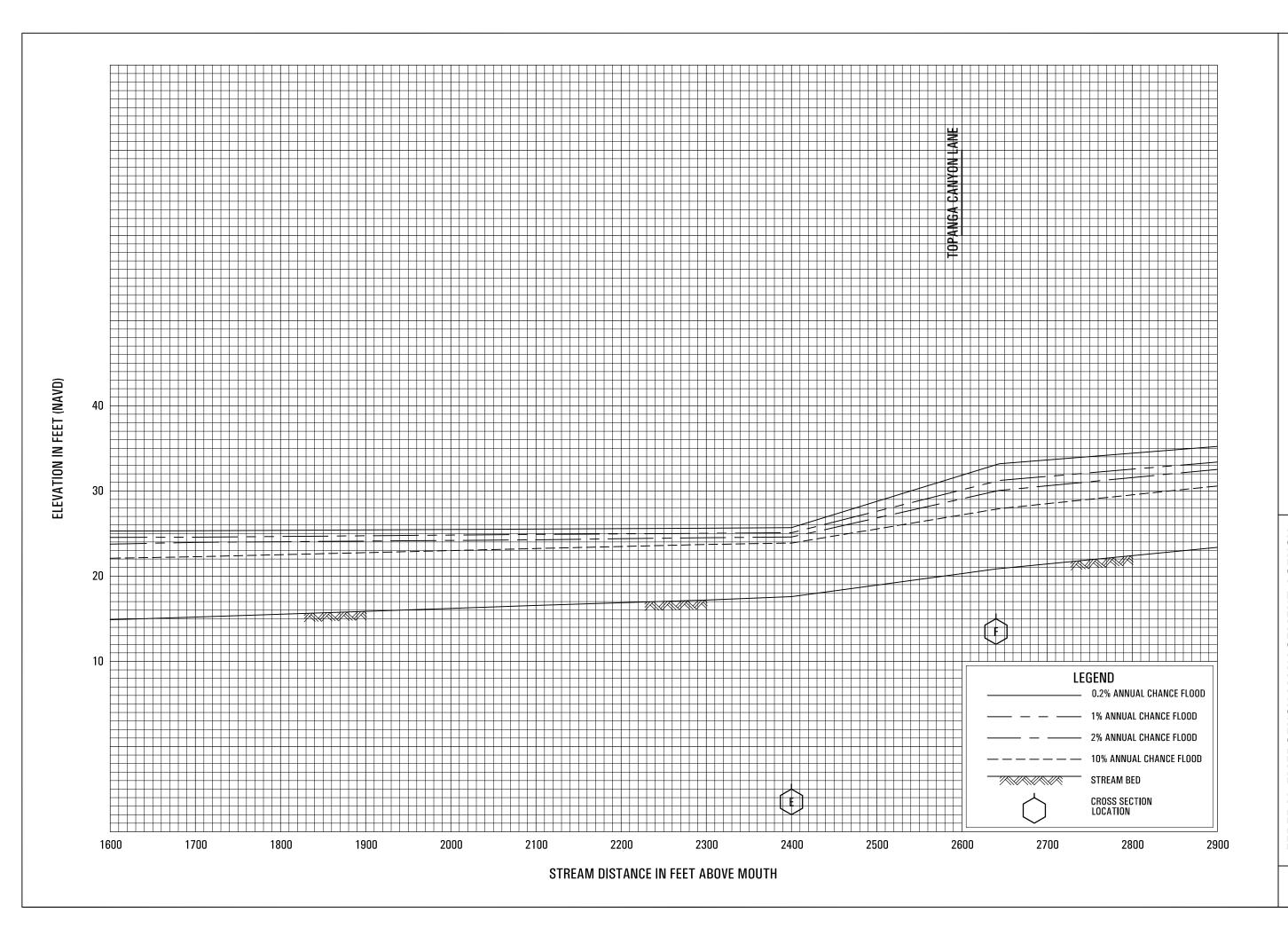
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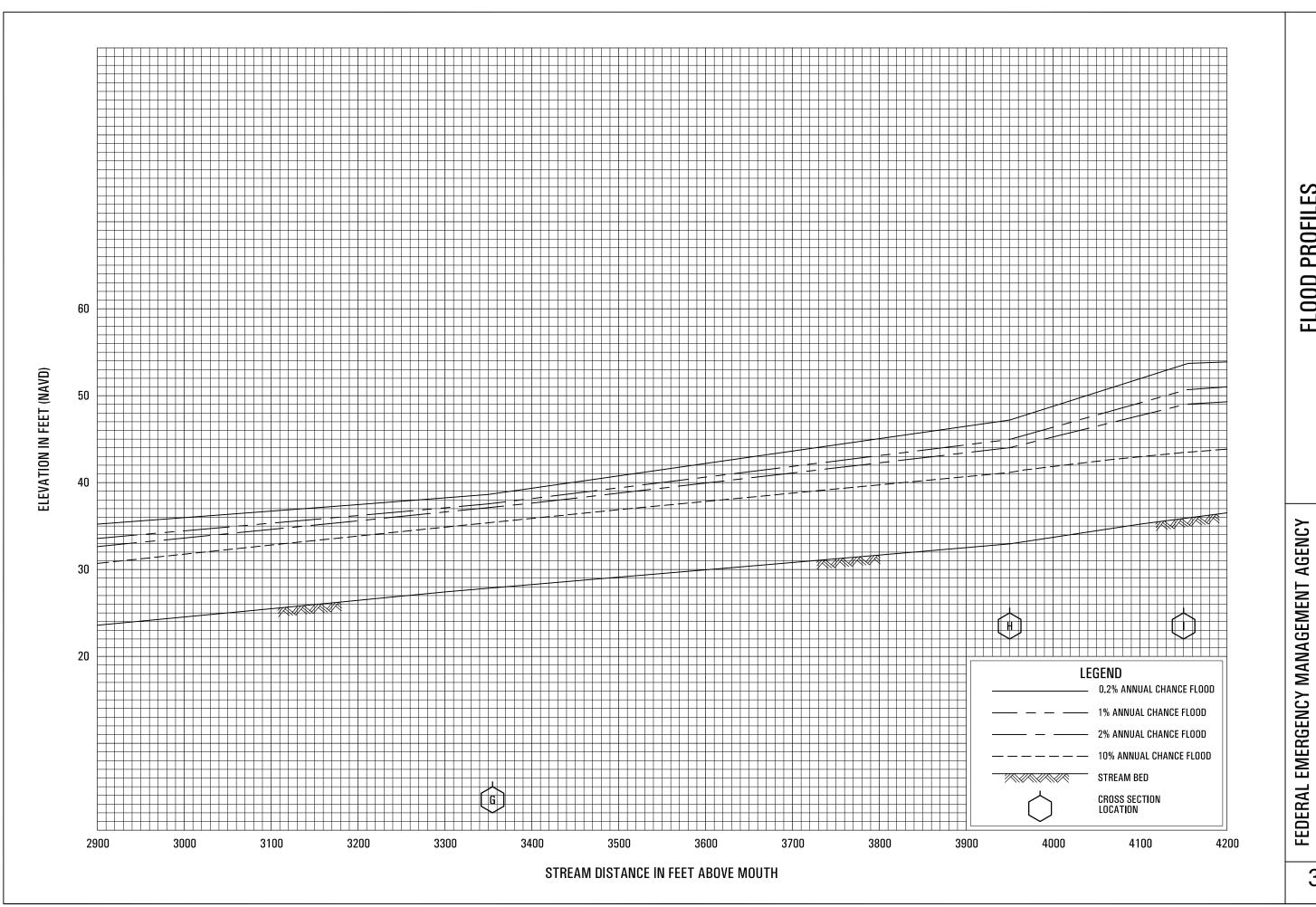






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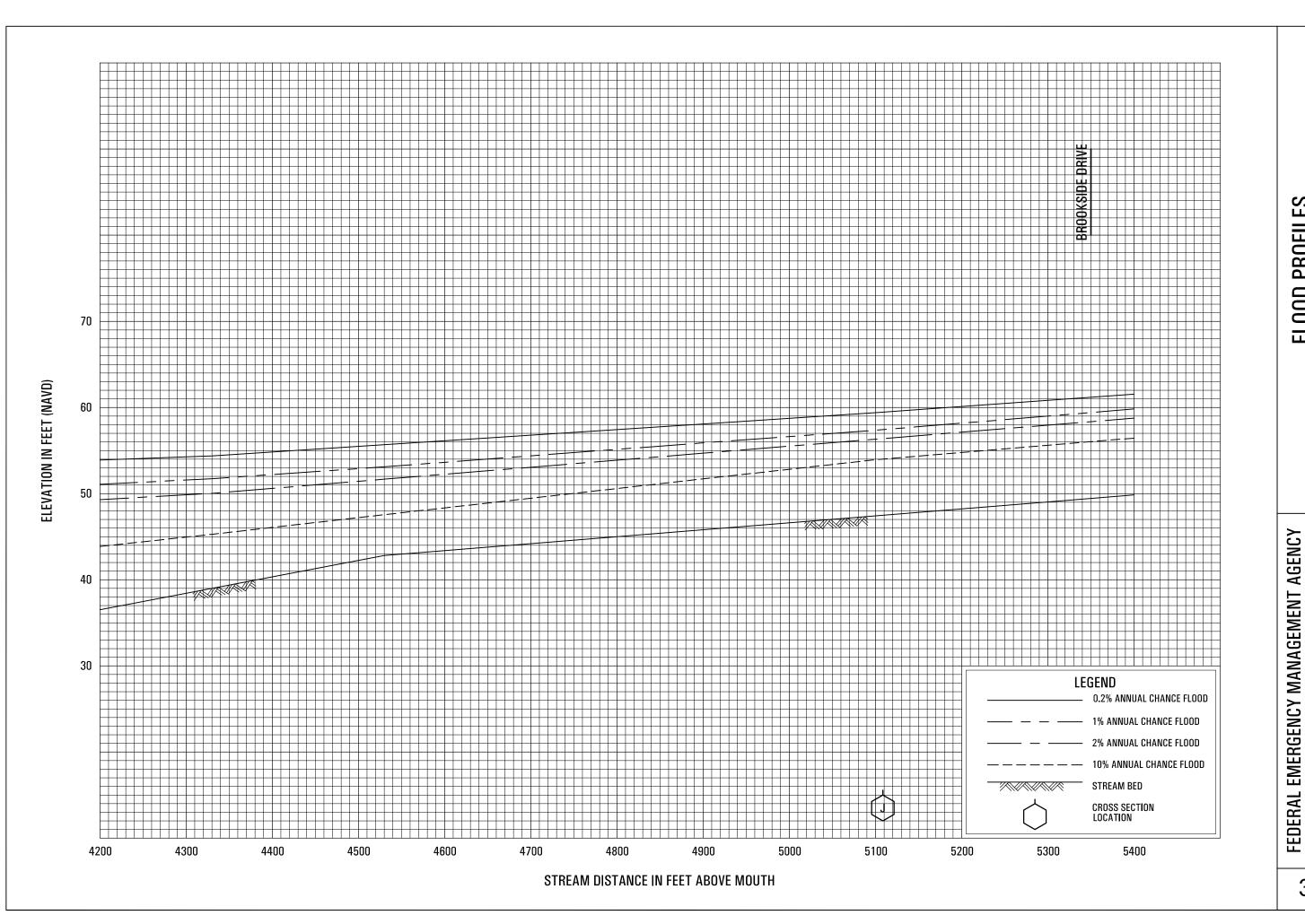
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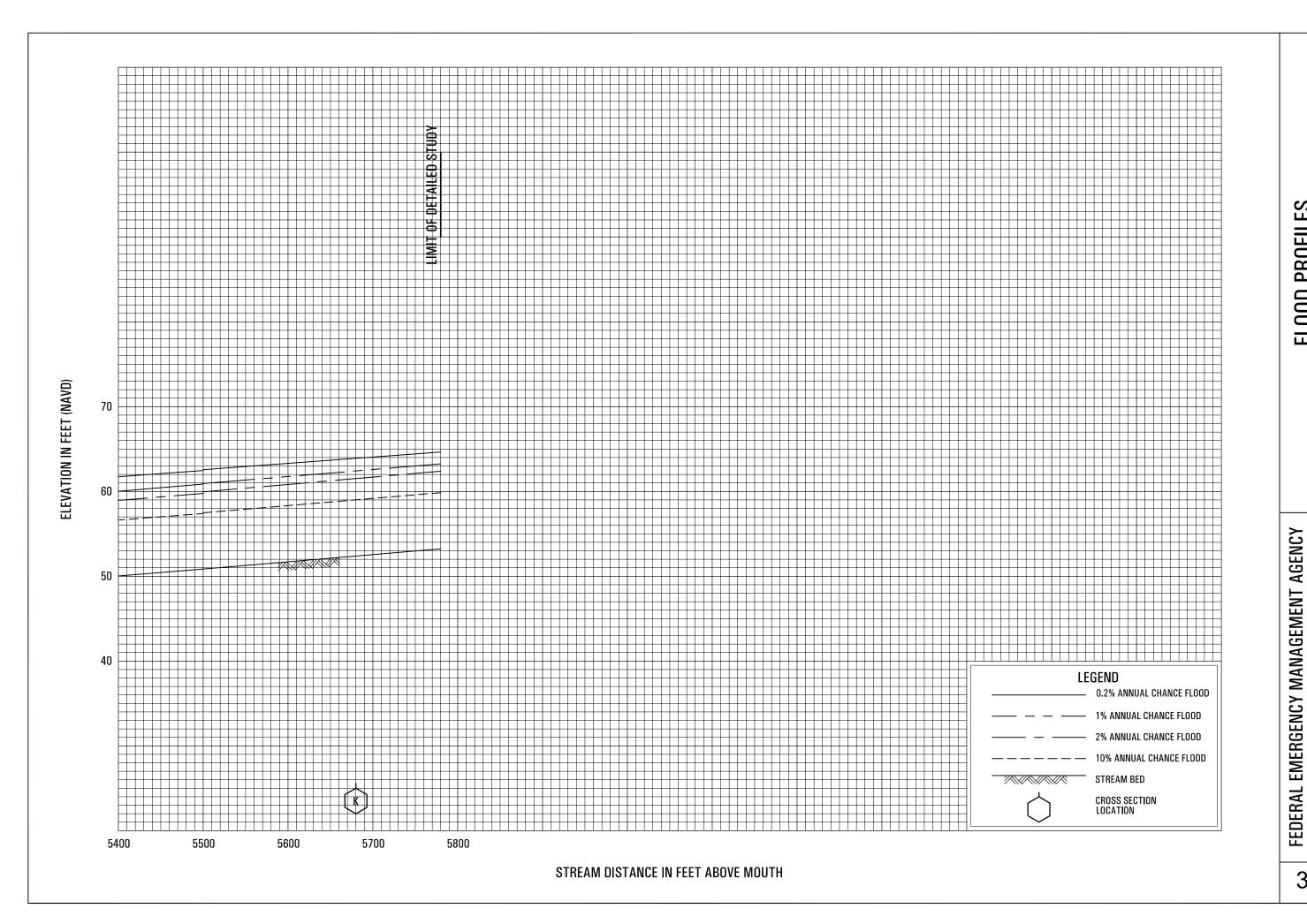
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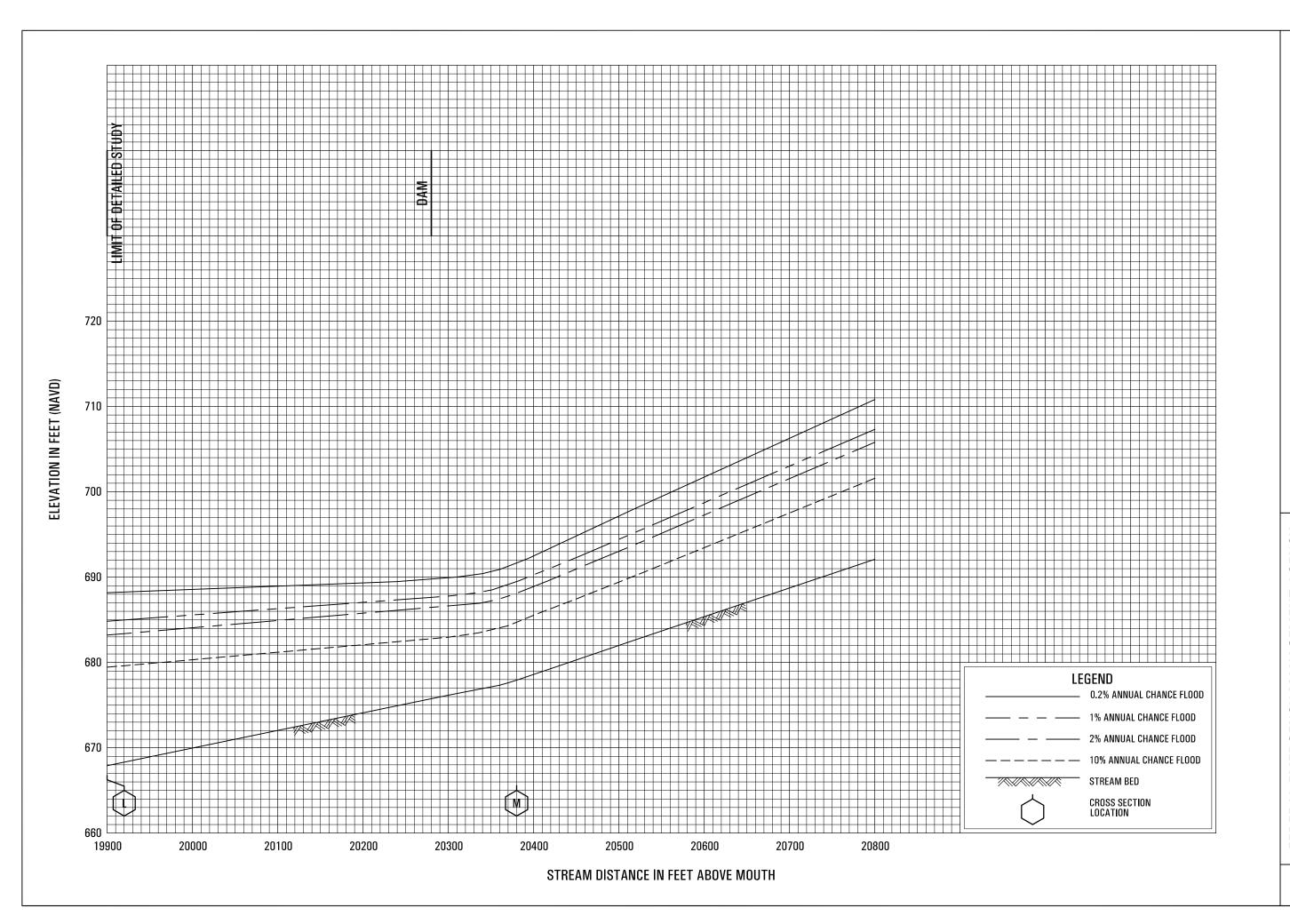
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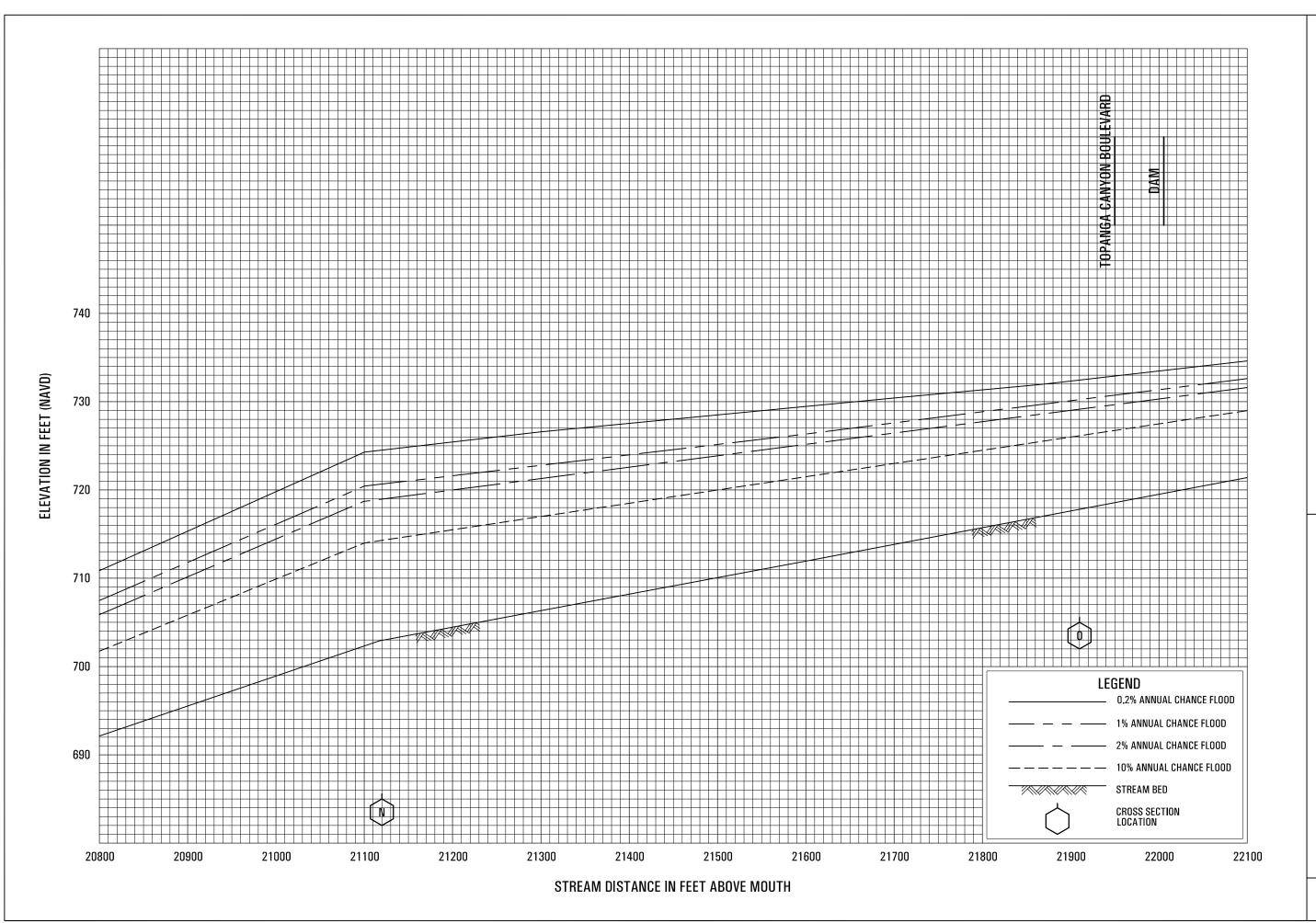
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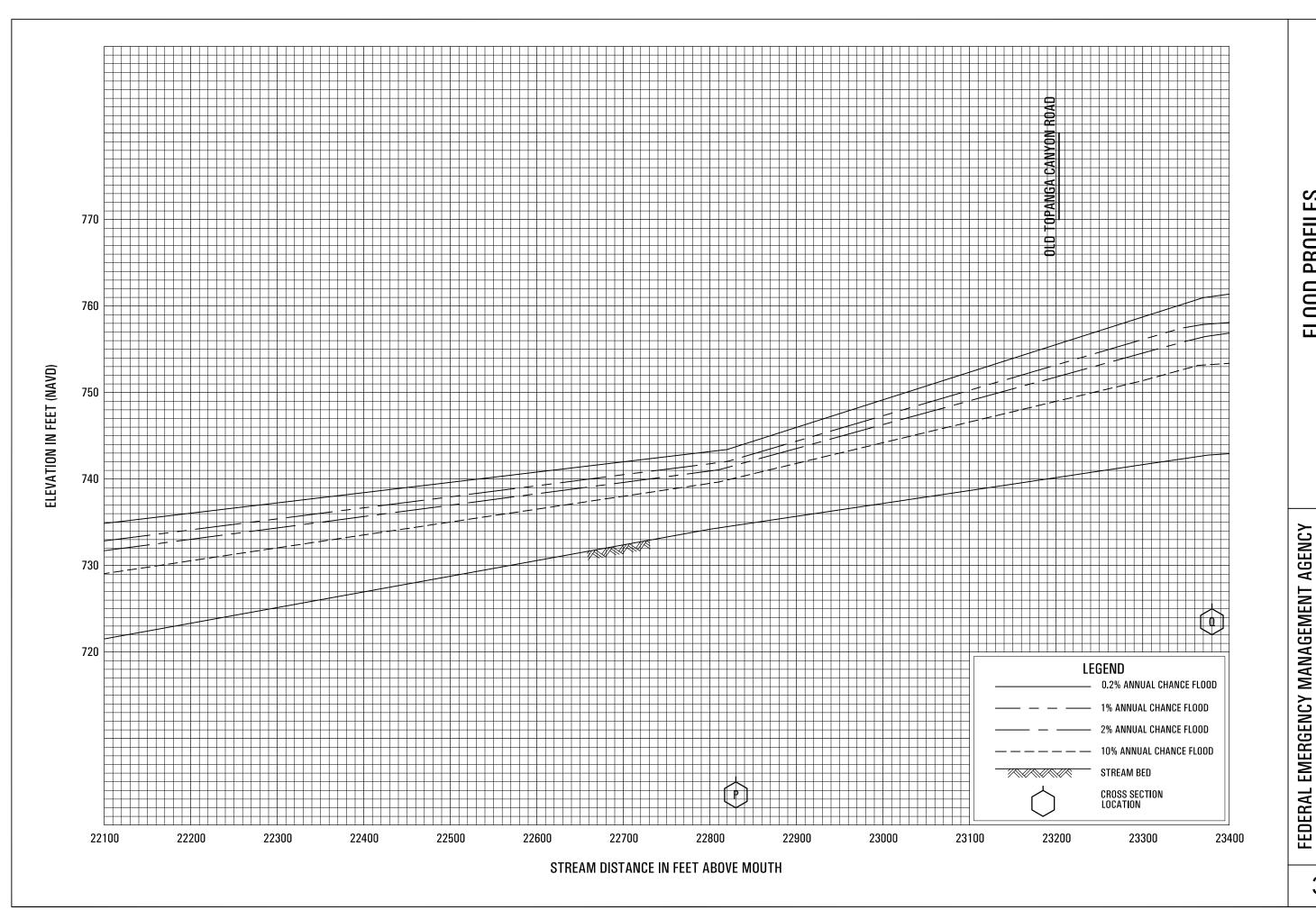
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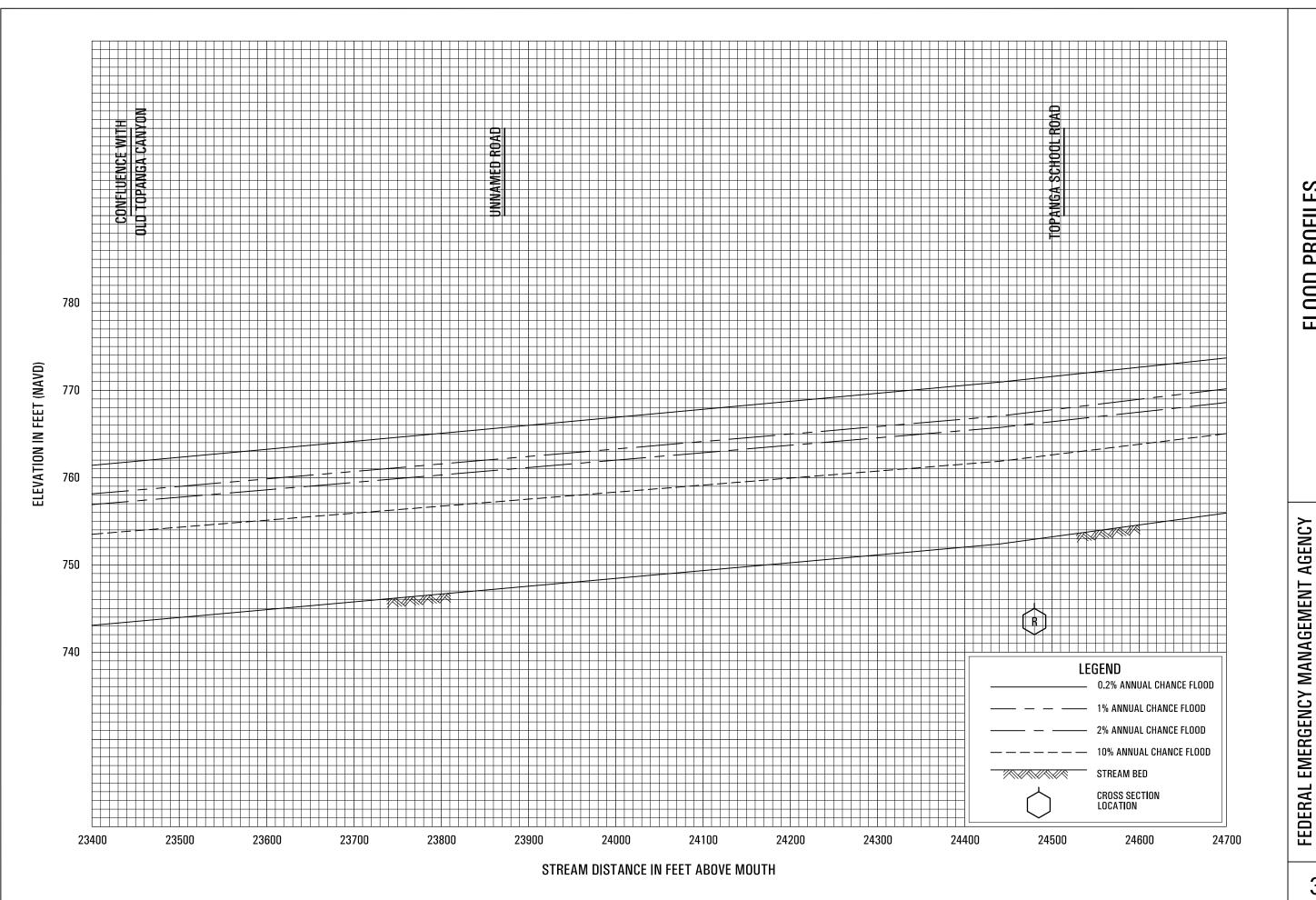
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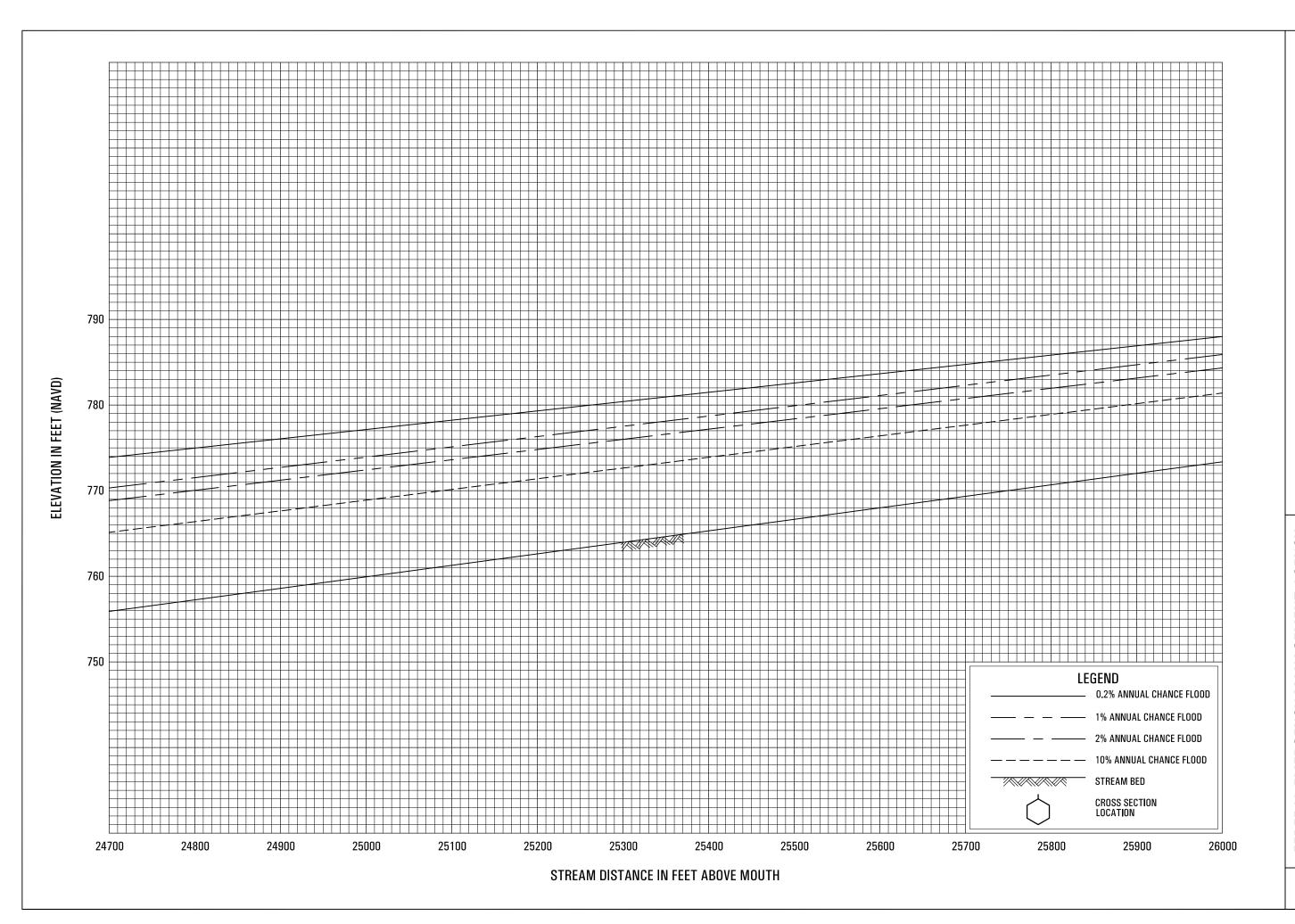
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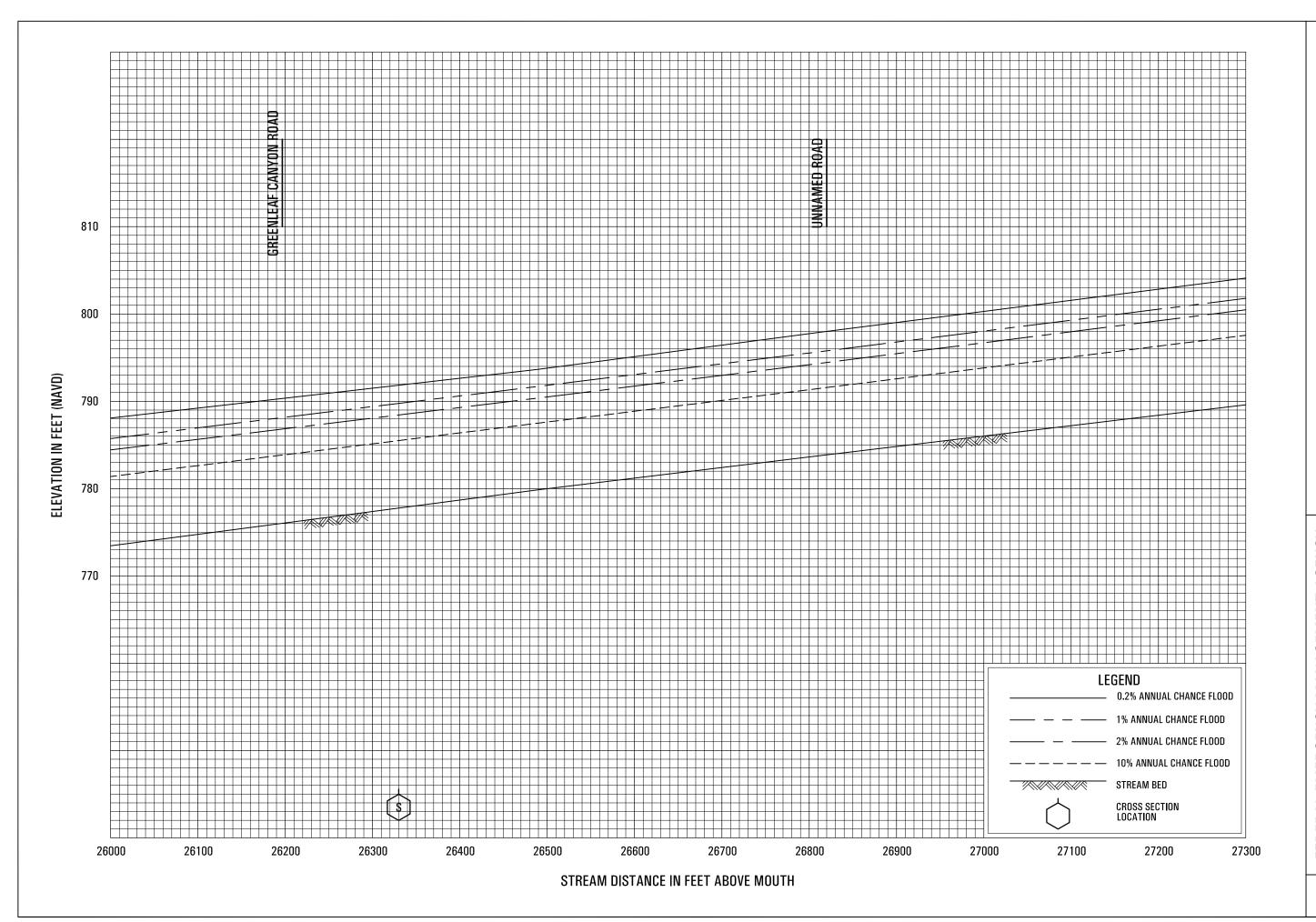
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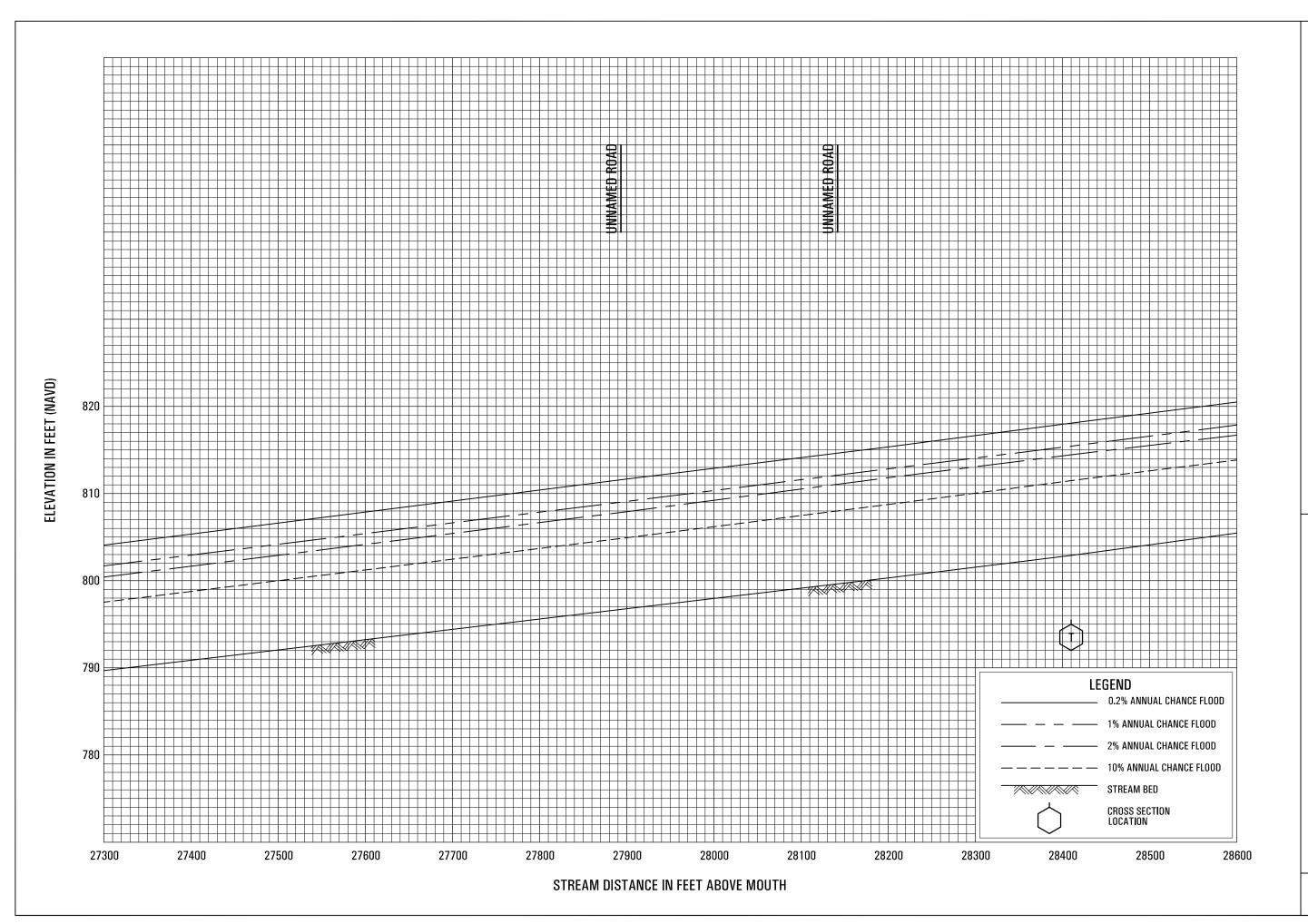
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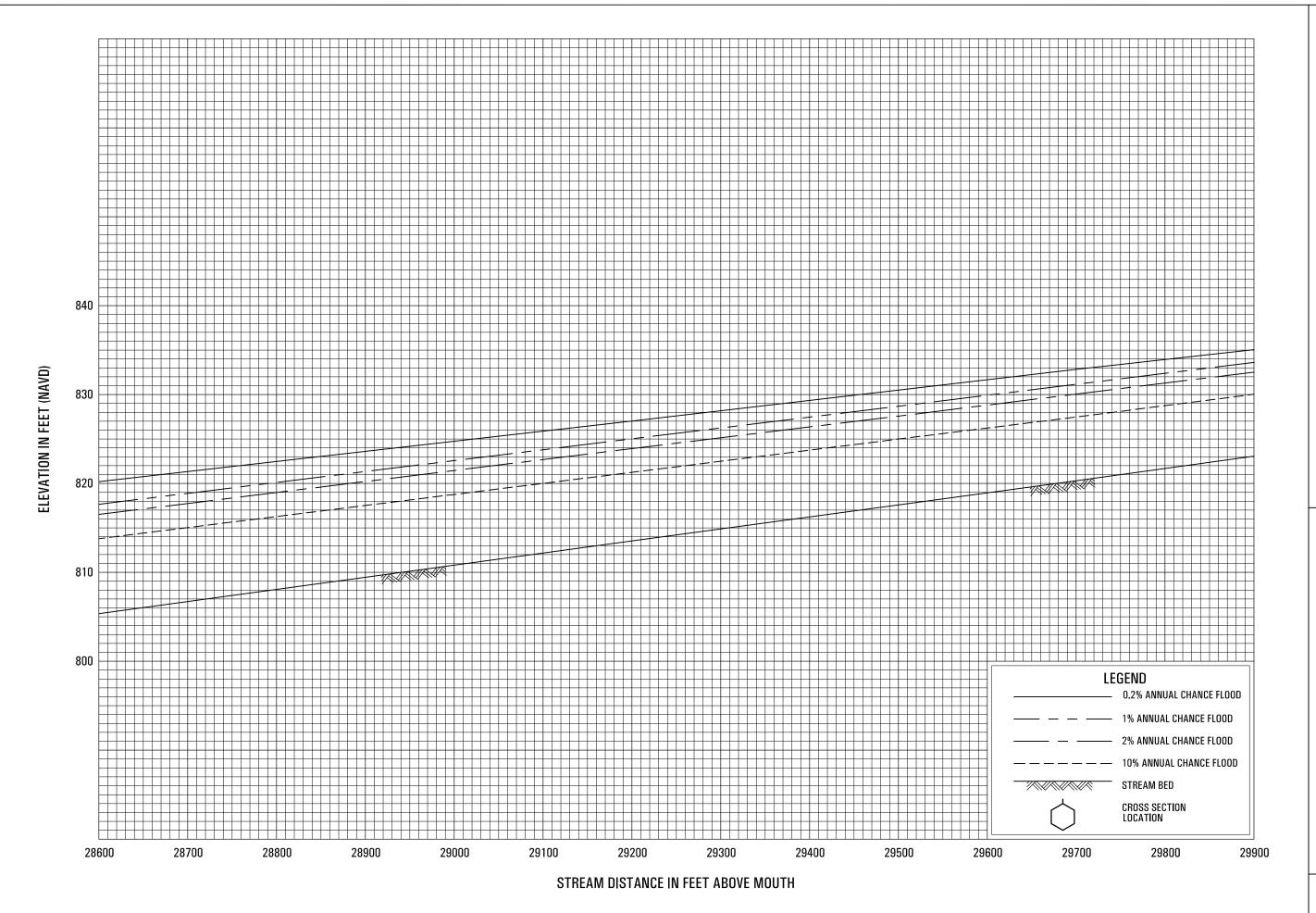
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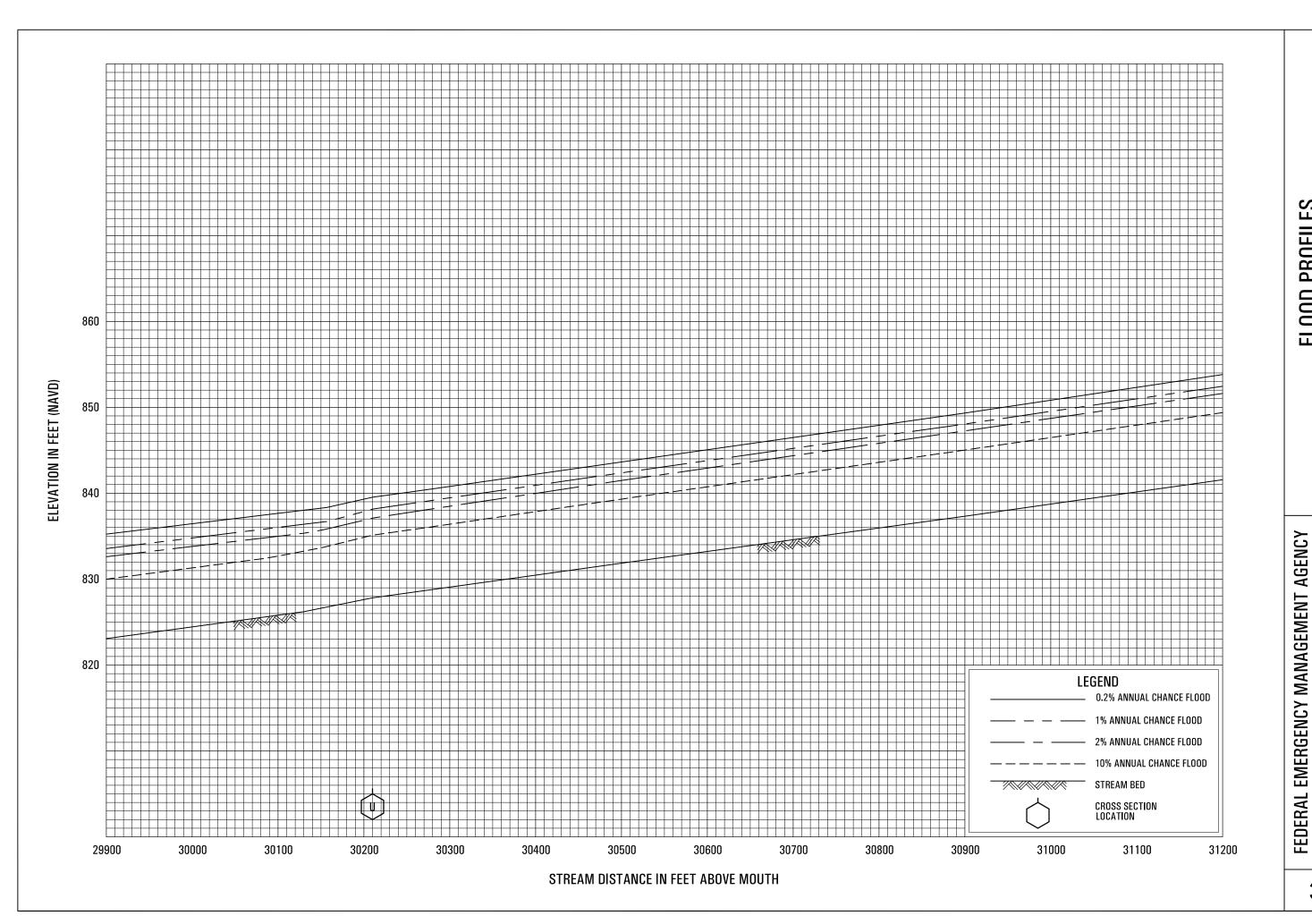
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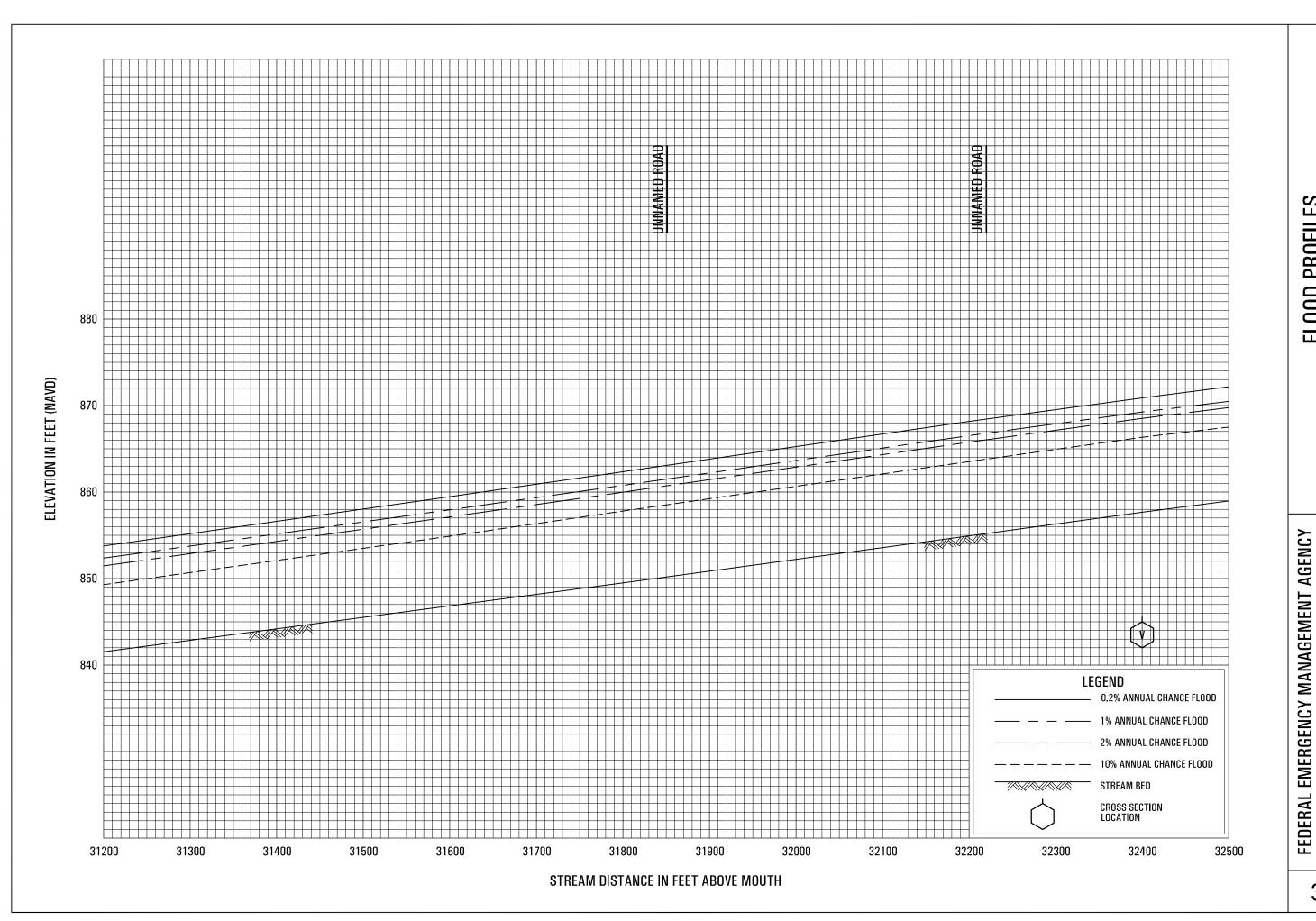
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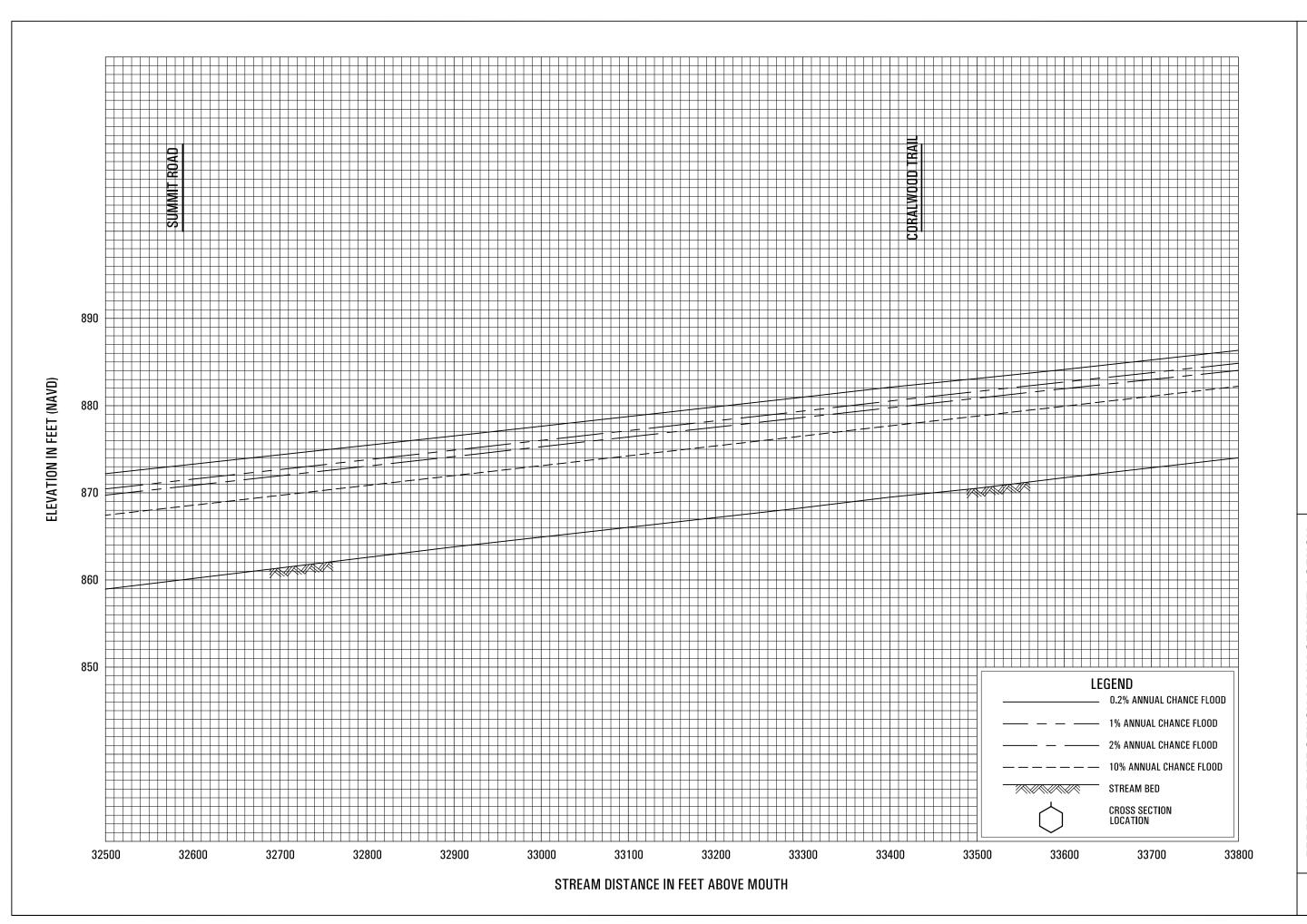
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LOS ANGELES COUNTY, CA

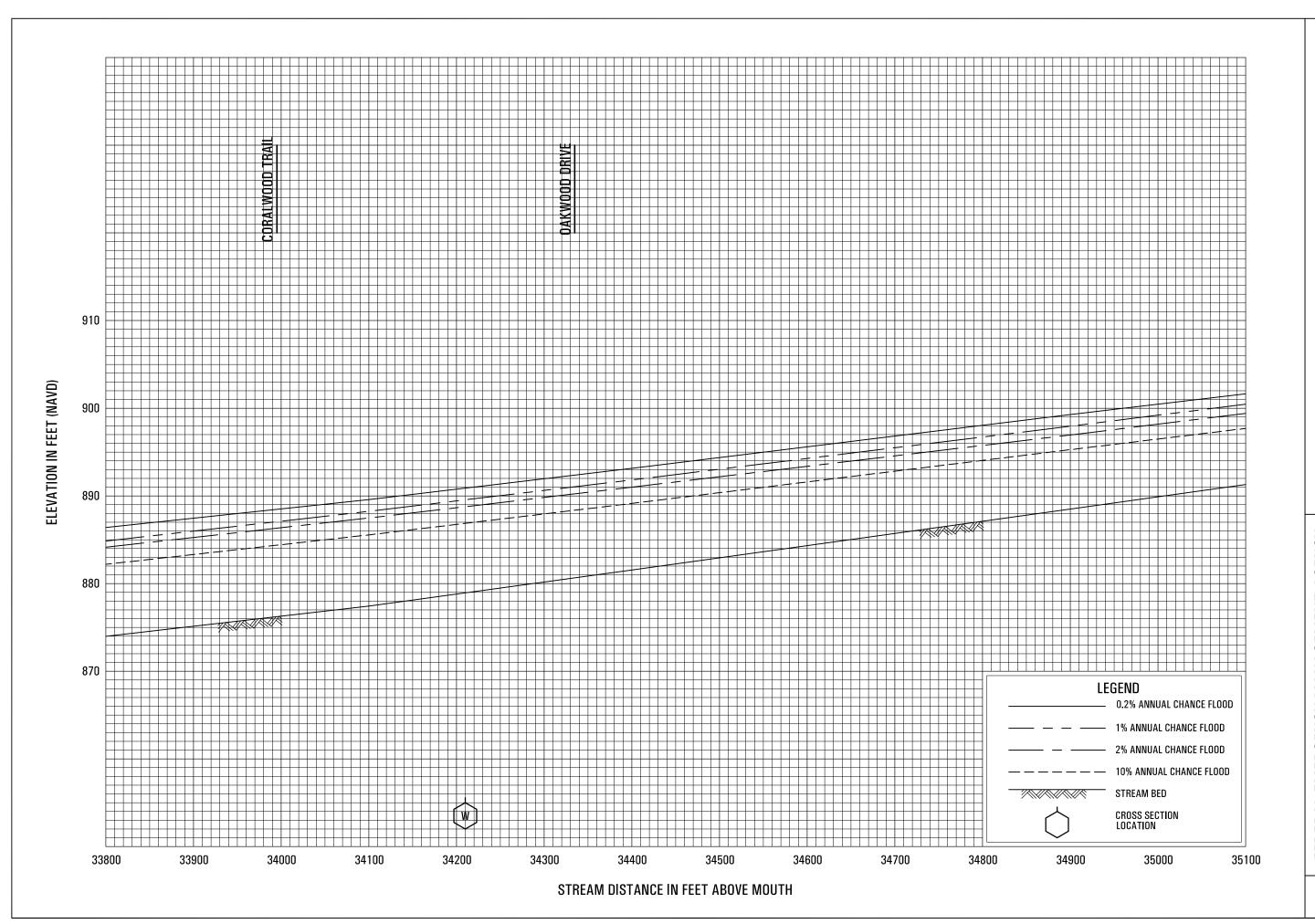
AND INCORPORATED AREAS



TOPANGA CANYON

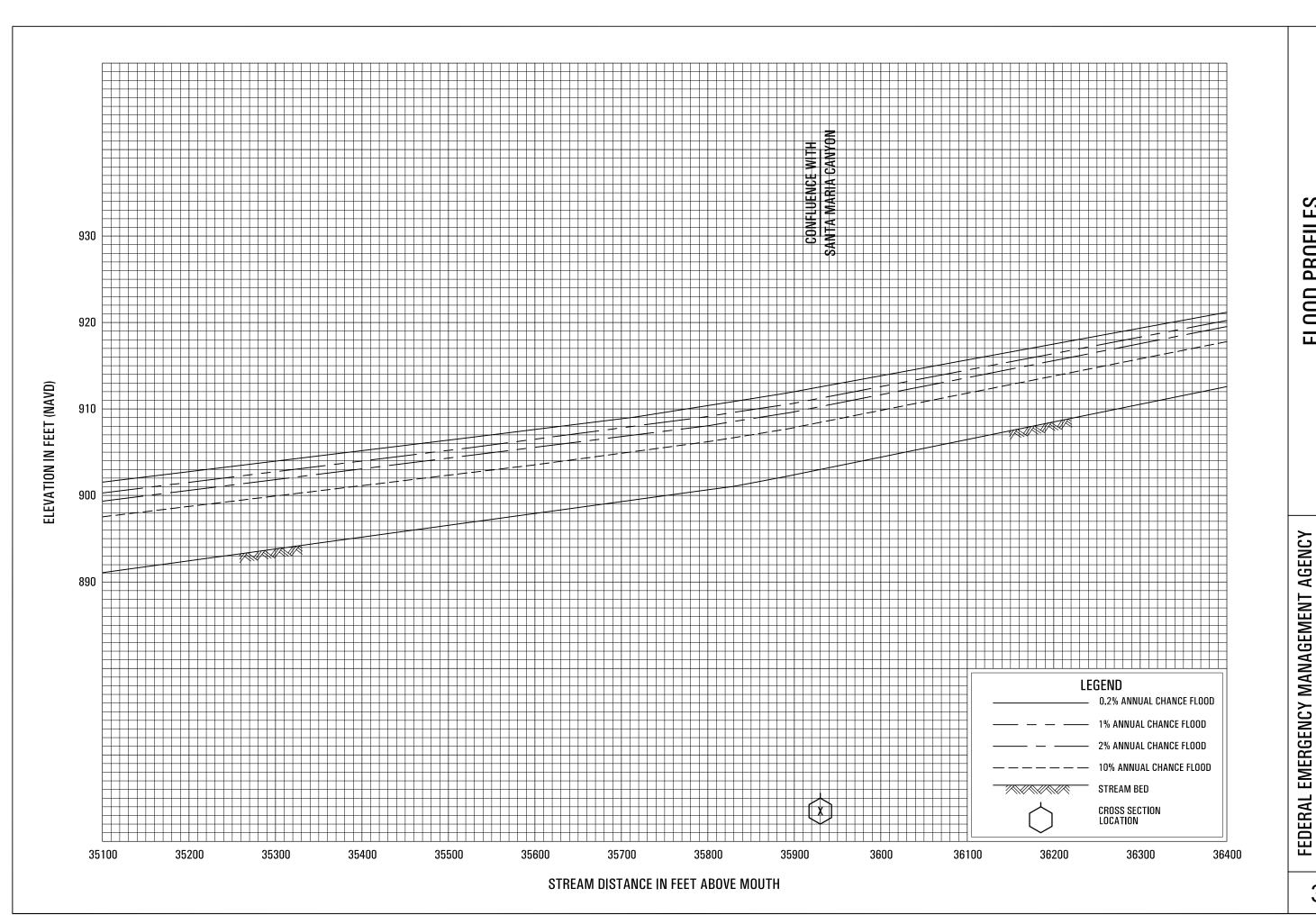
FEDERAL EMERGENCY MANAGEMENT AGENCY LOS ANGELES COUNTY, CA

AND INCORPORATED AREAS



TOPANGA CANYON

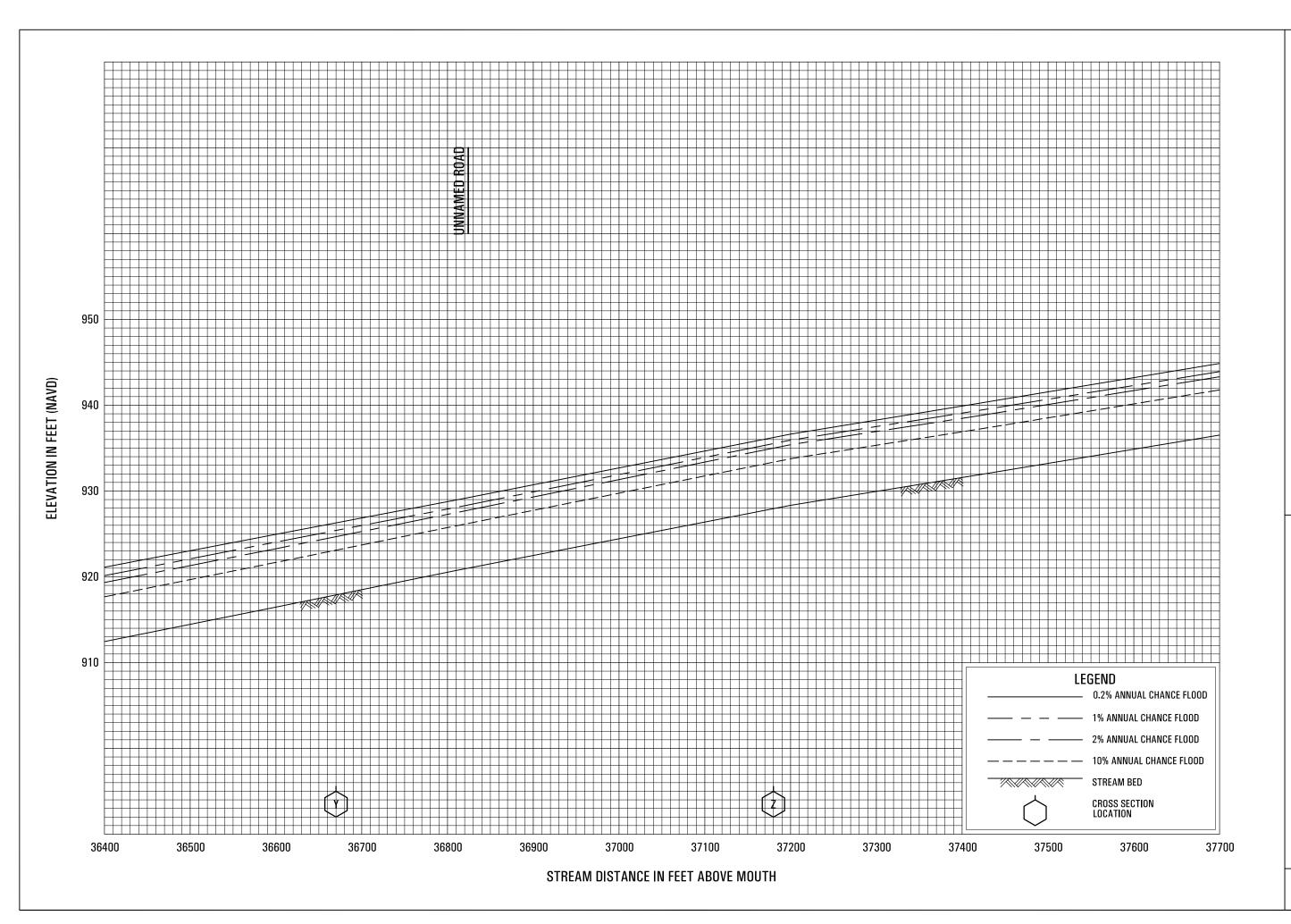
FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



TOPANGA CANYON

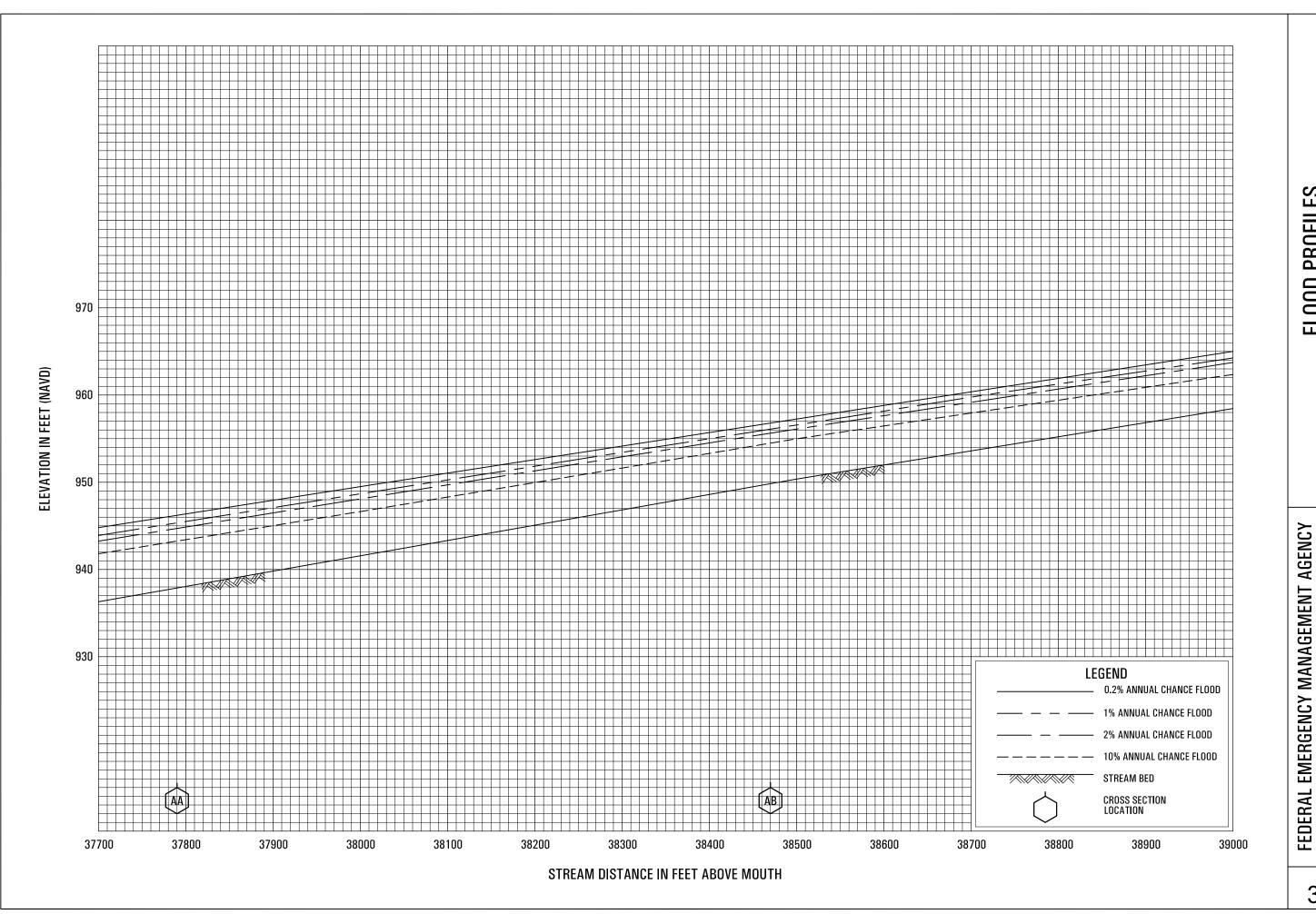
383P

LOS ANGELES COUNTY, CA



TOPANGA CANYON

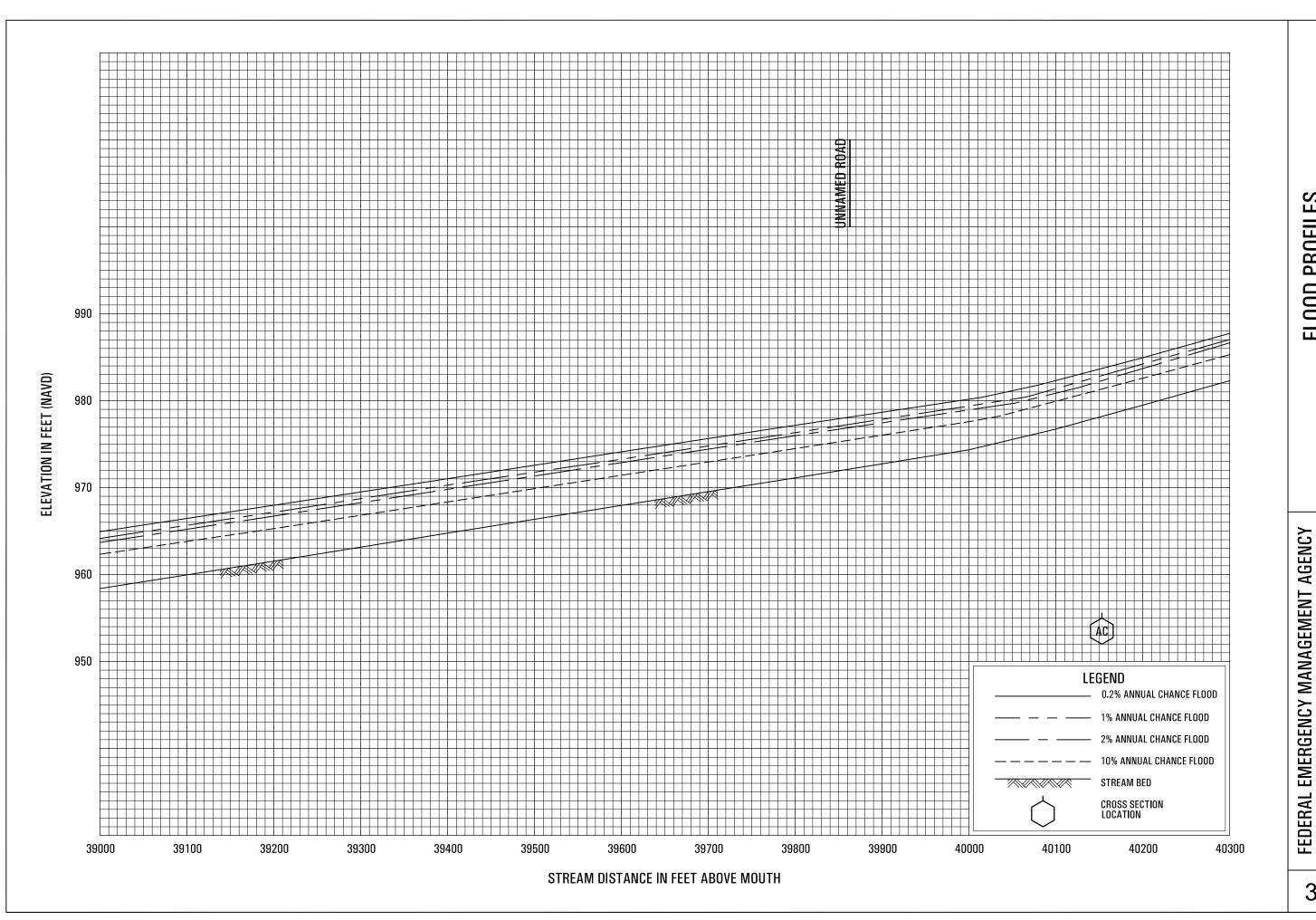
FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



TOPANGA CANYON

385P

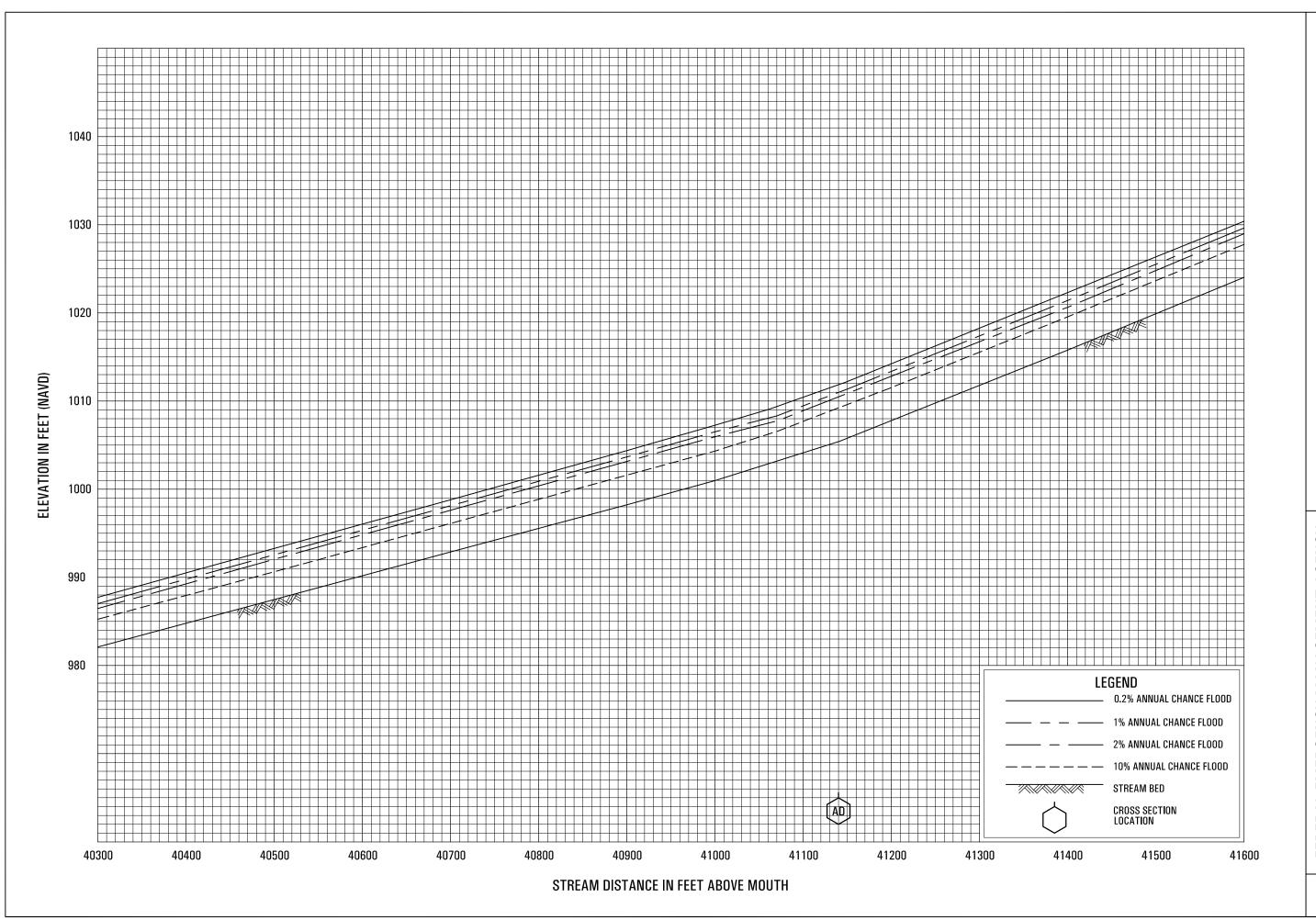
LOS ANGELES COUNTY, CA



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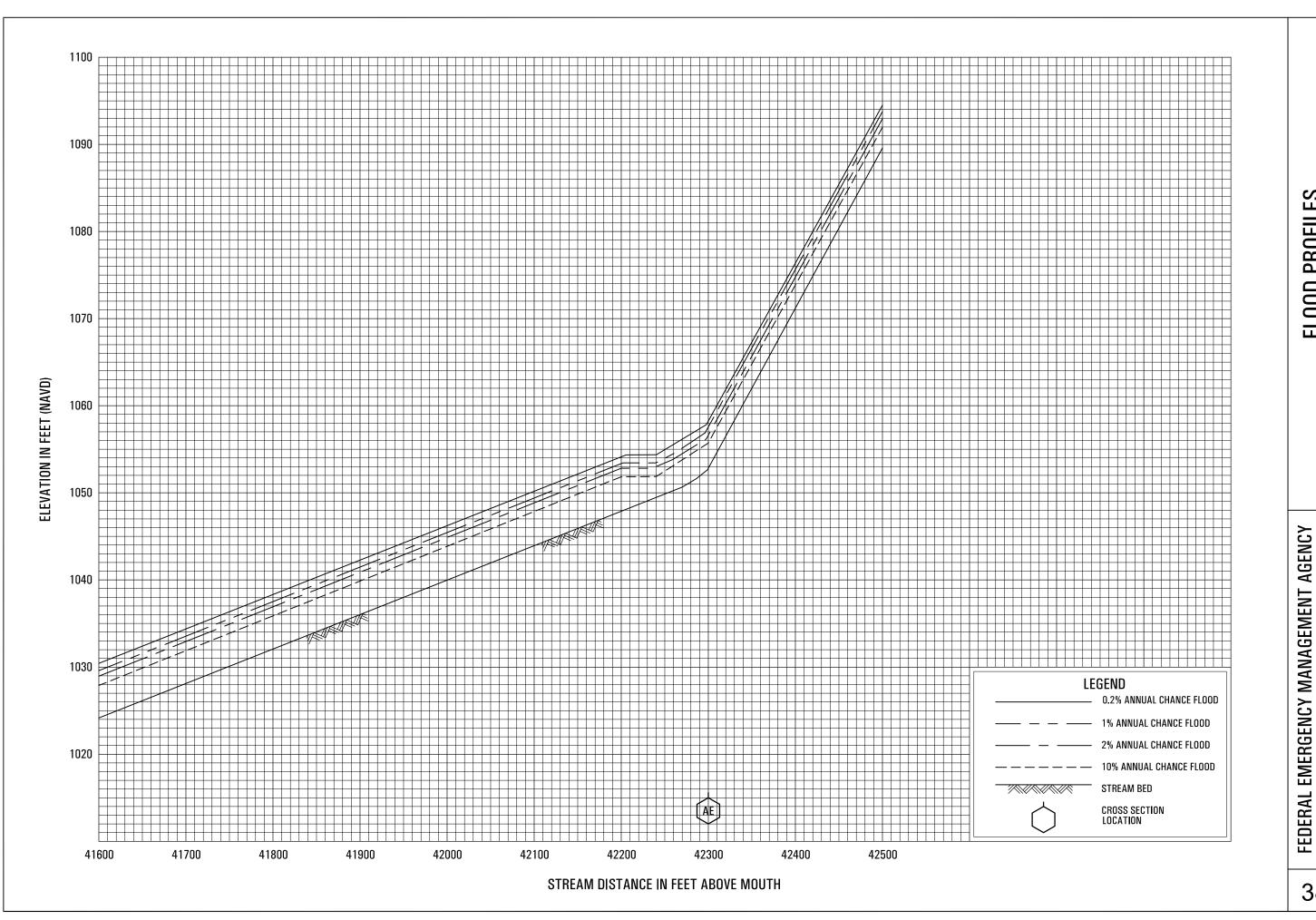
386P

LOS ANGELES COUNTY, CA



TOPANGA CANYON

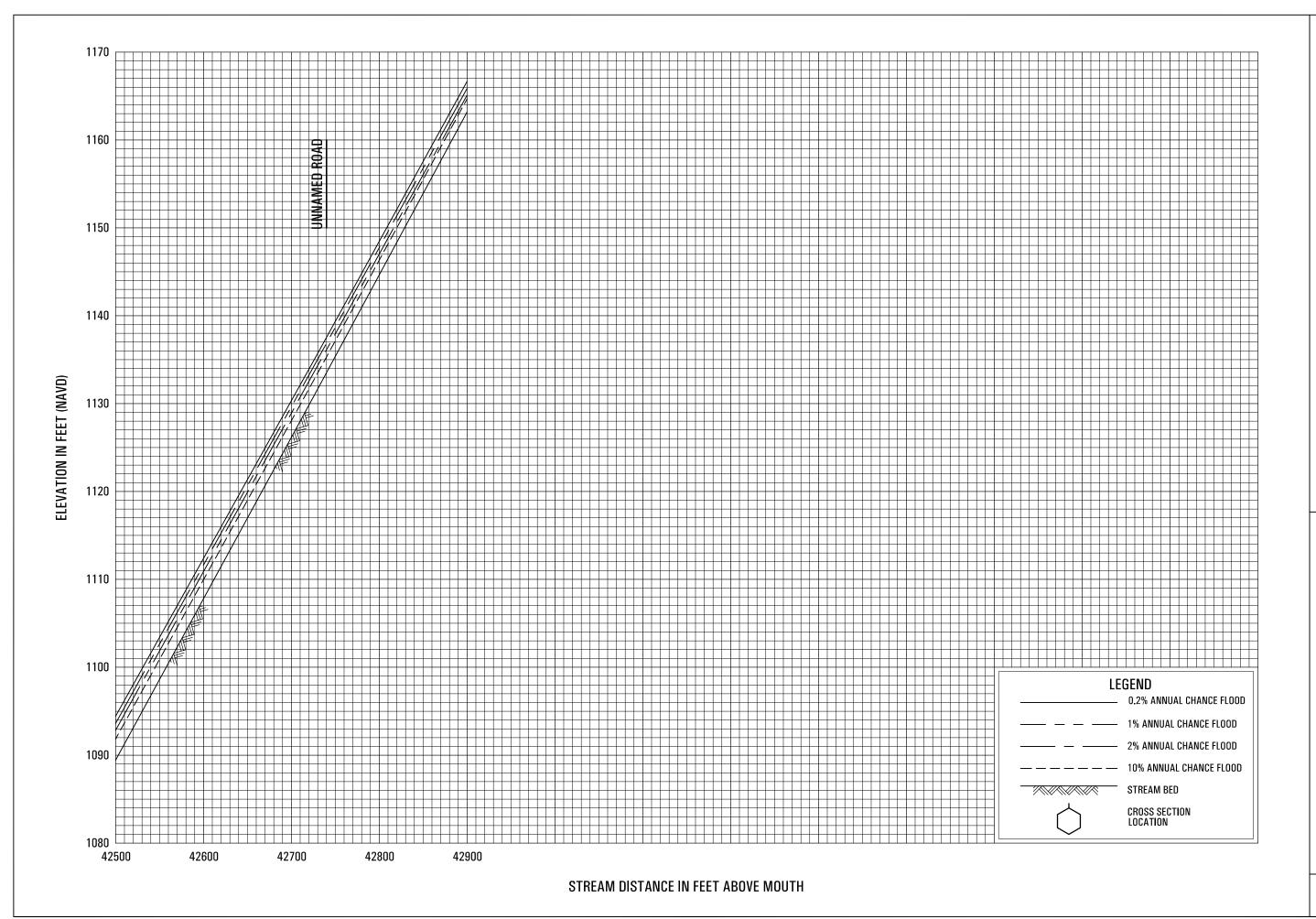
FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



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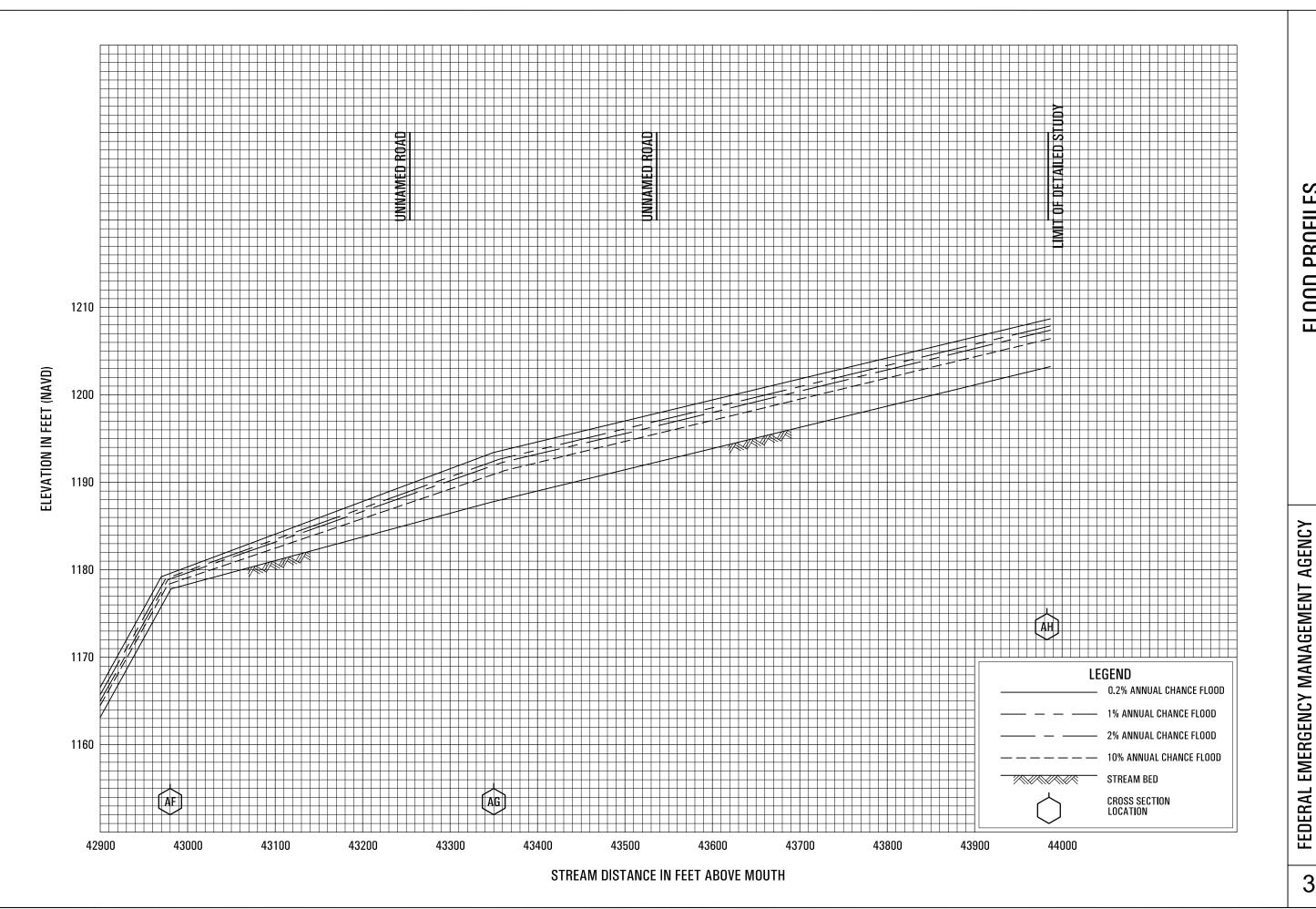
388P

LOS ANGELES COUNTY, CA



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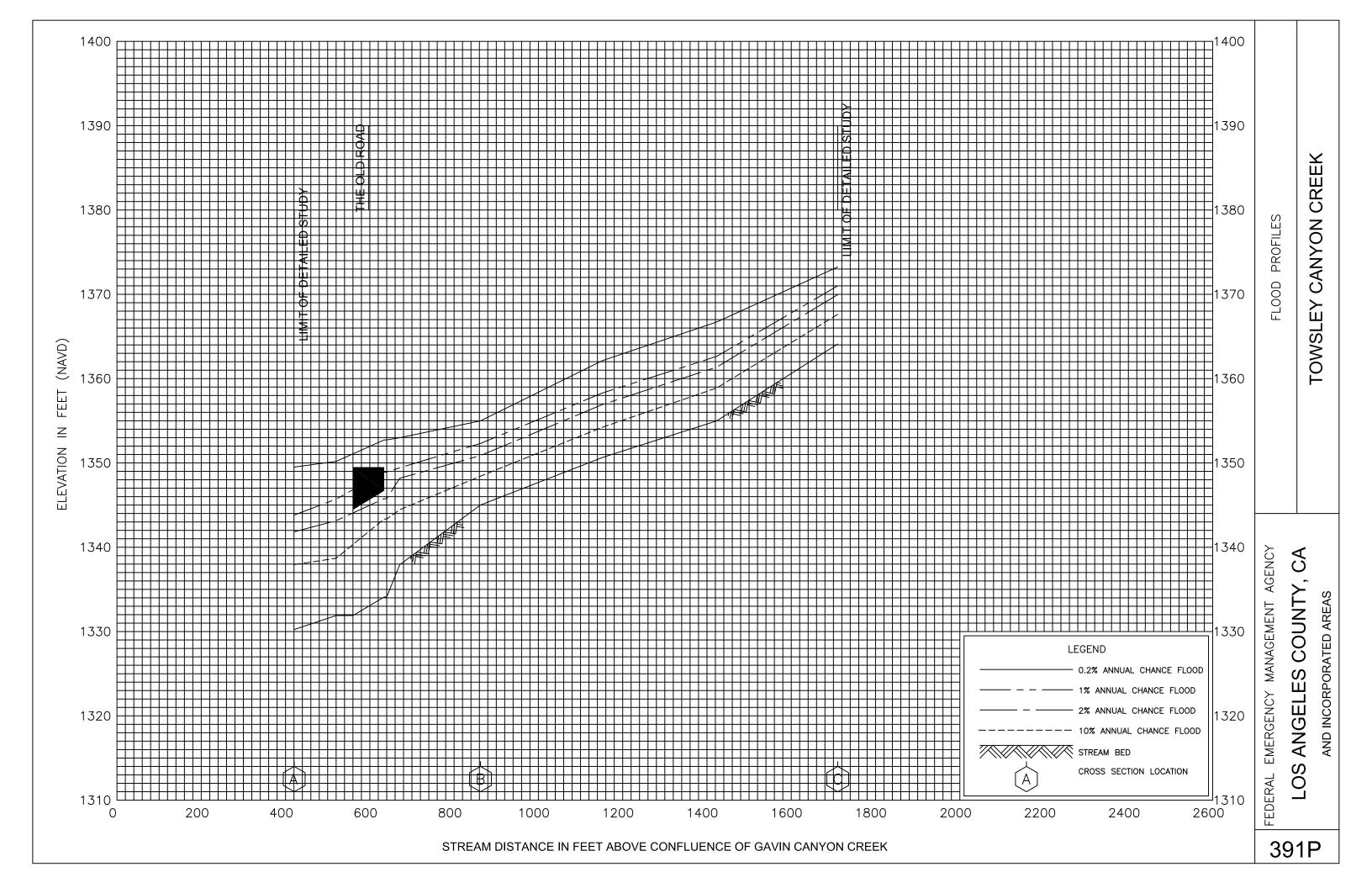
FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS

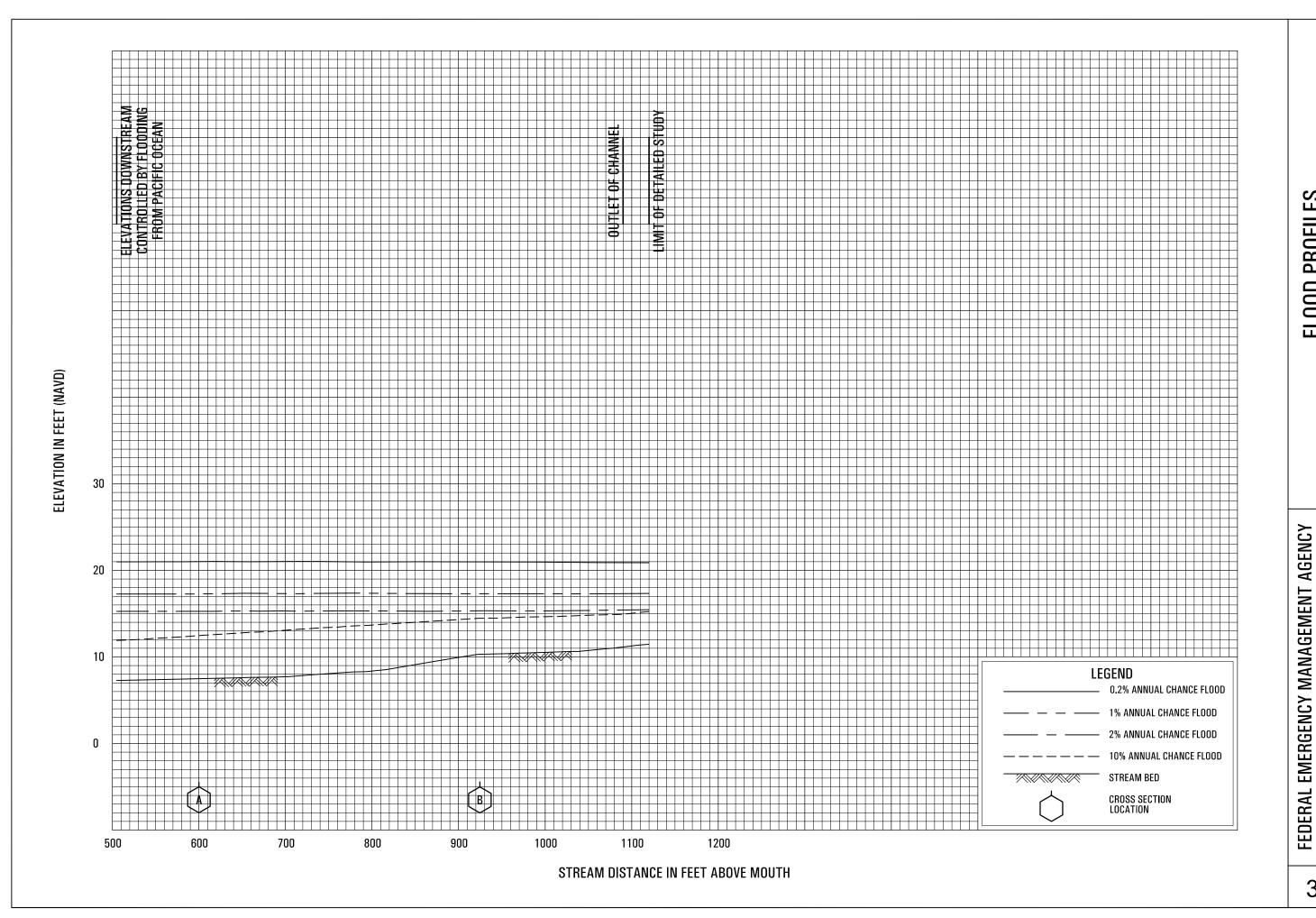


TOPANGA CANYON

LOS ANGELES COUNTY, CA

AND INCORPORATED AREAS

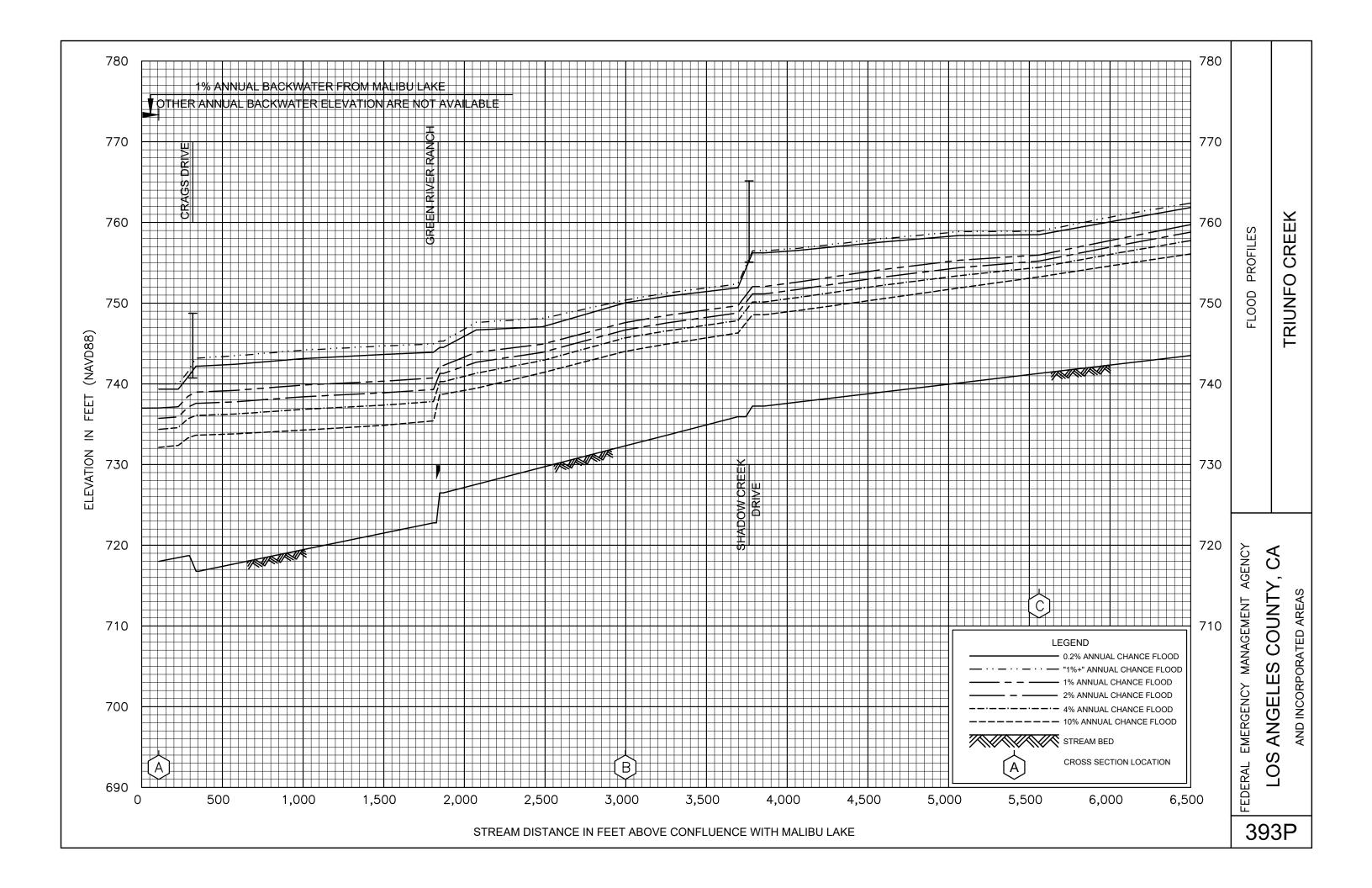


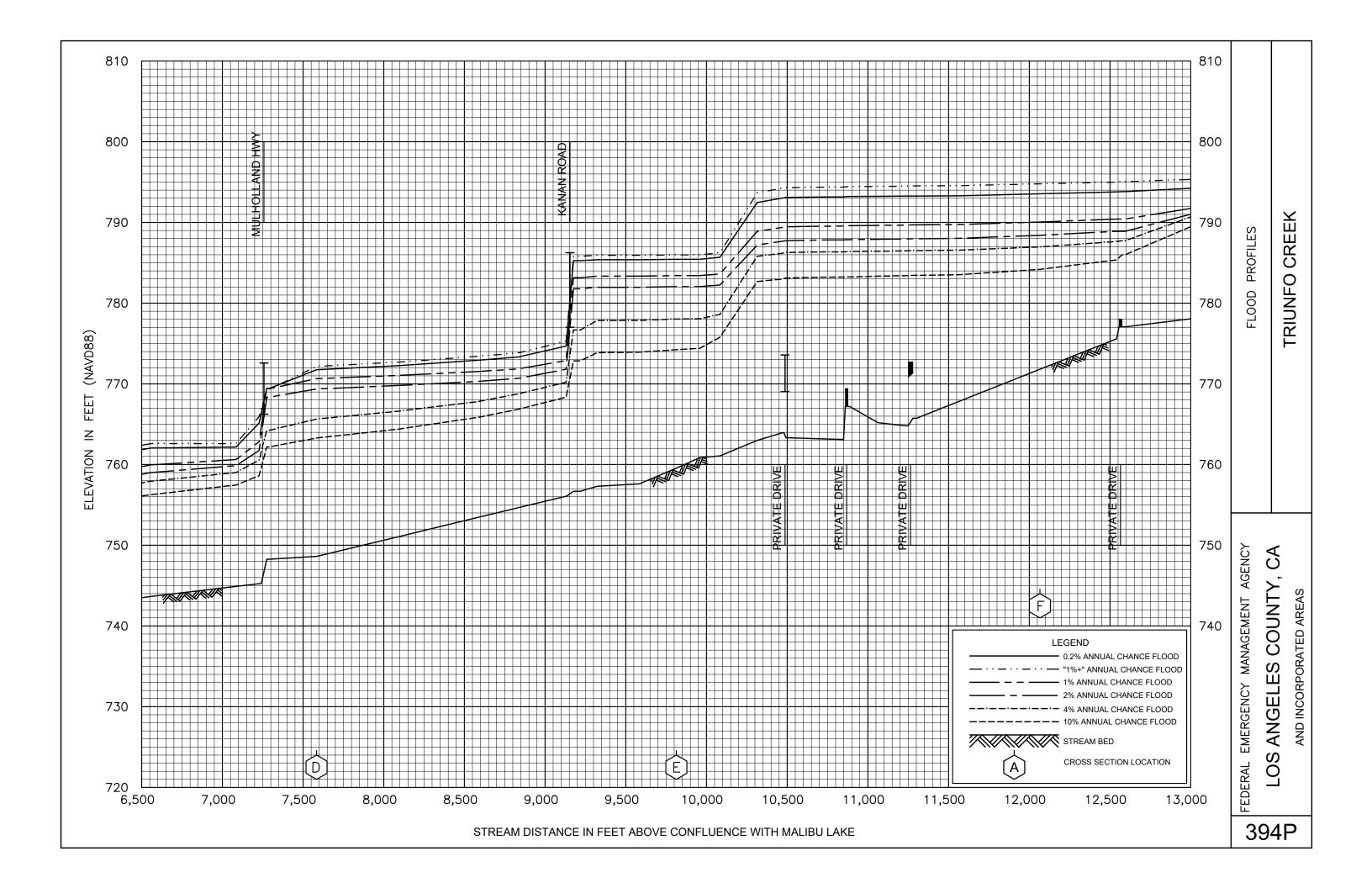


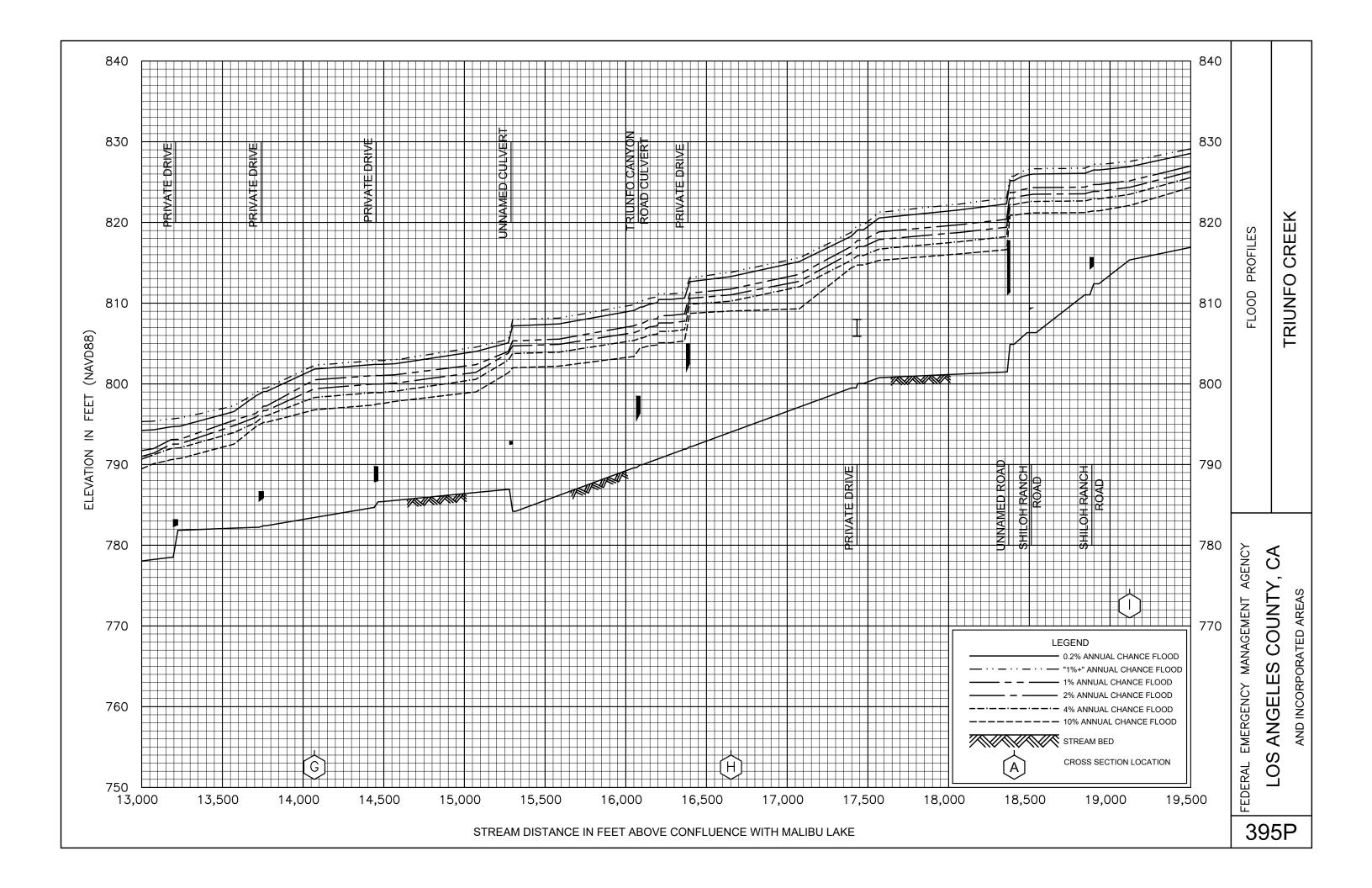
TRANCAS CREEK

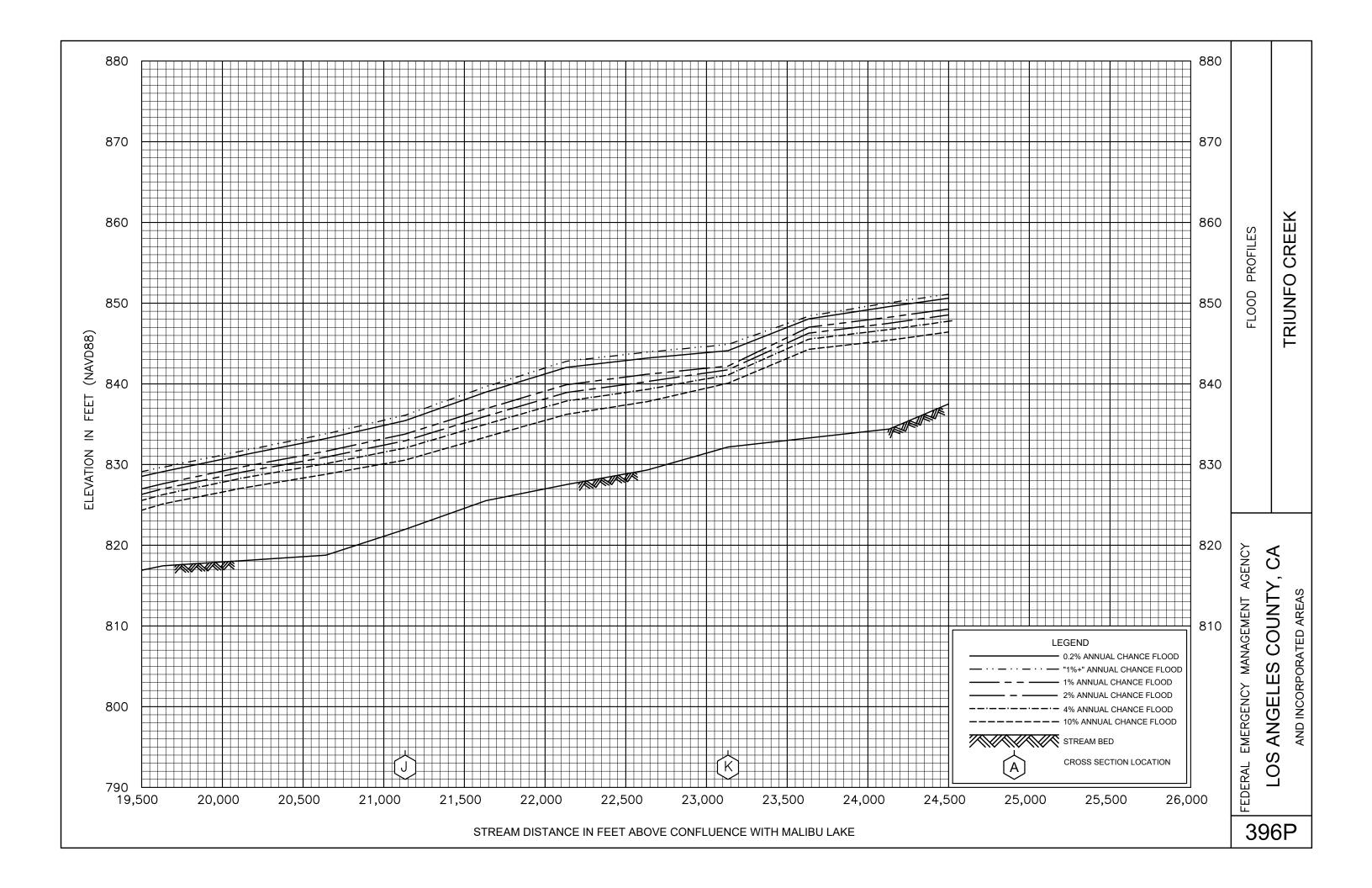
392P

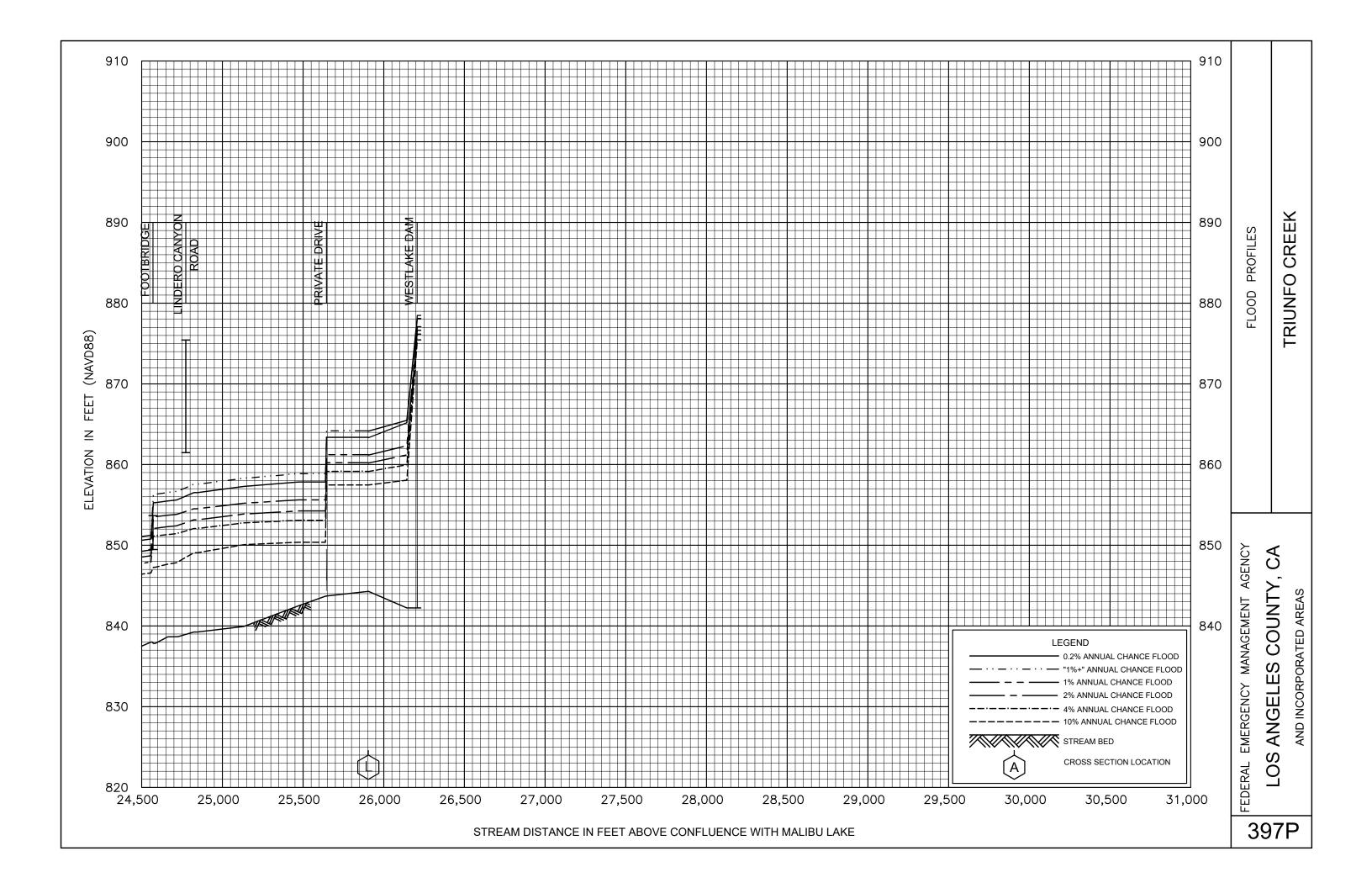
LOS ANGELES COUNTY, CA

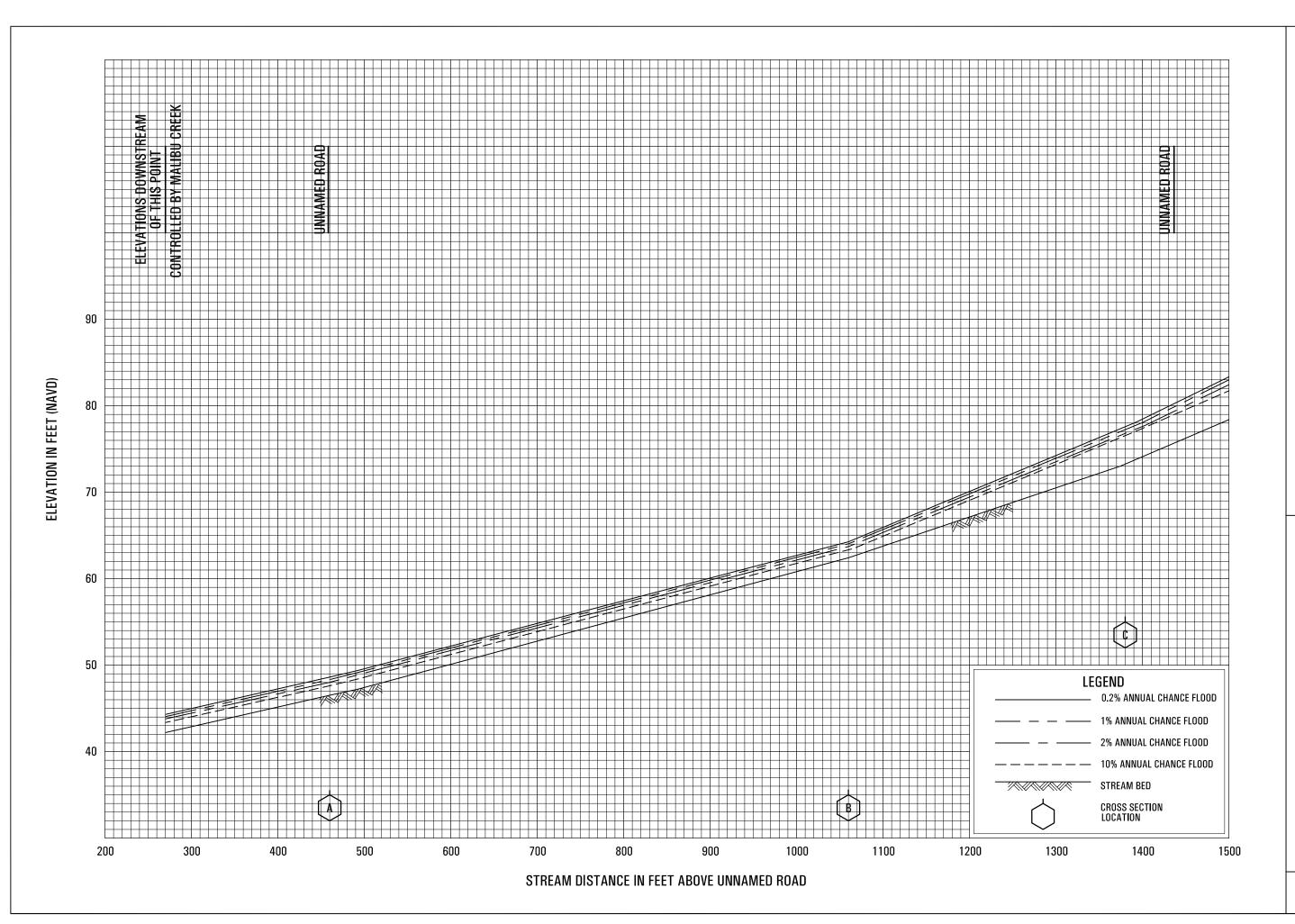






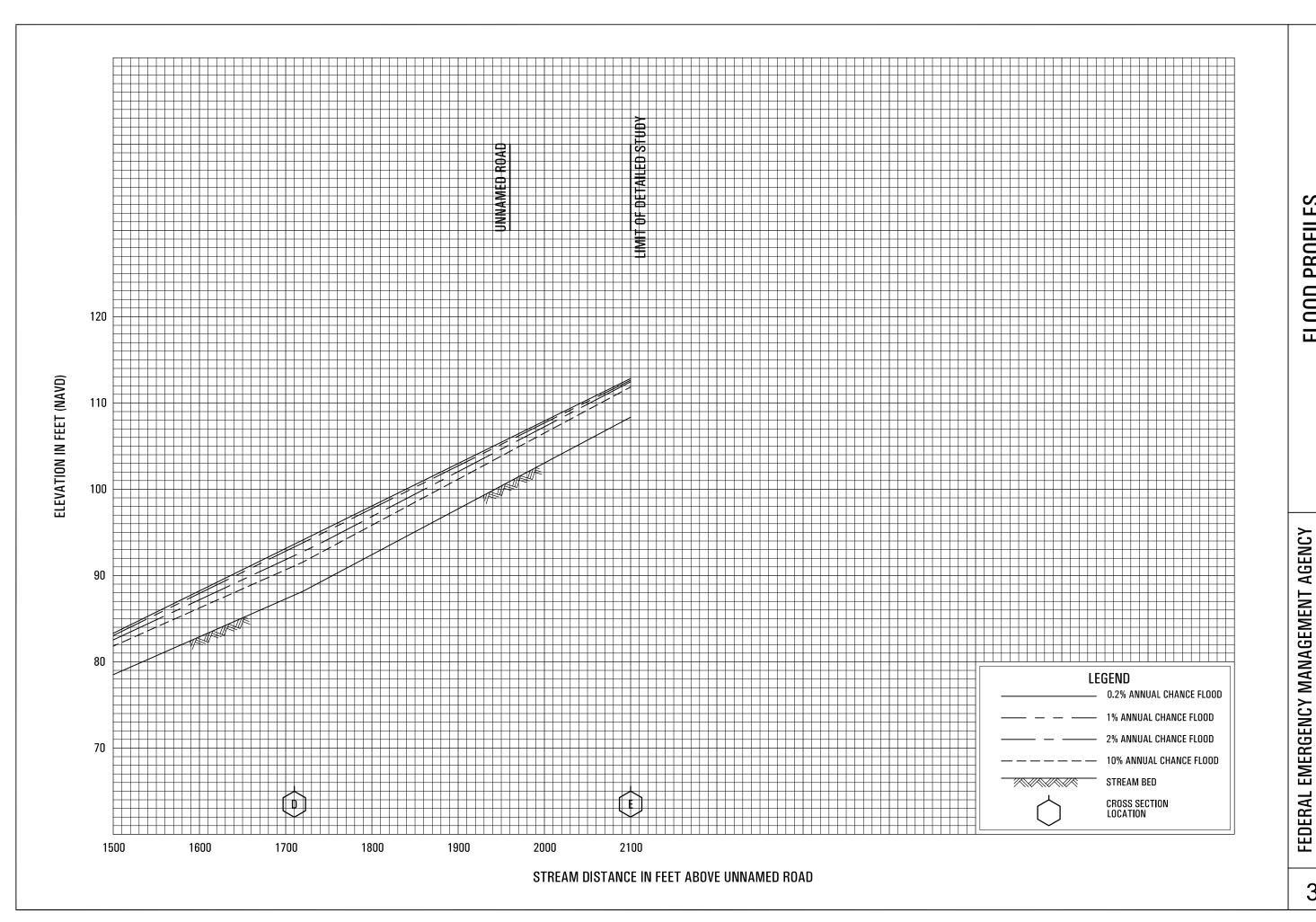






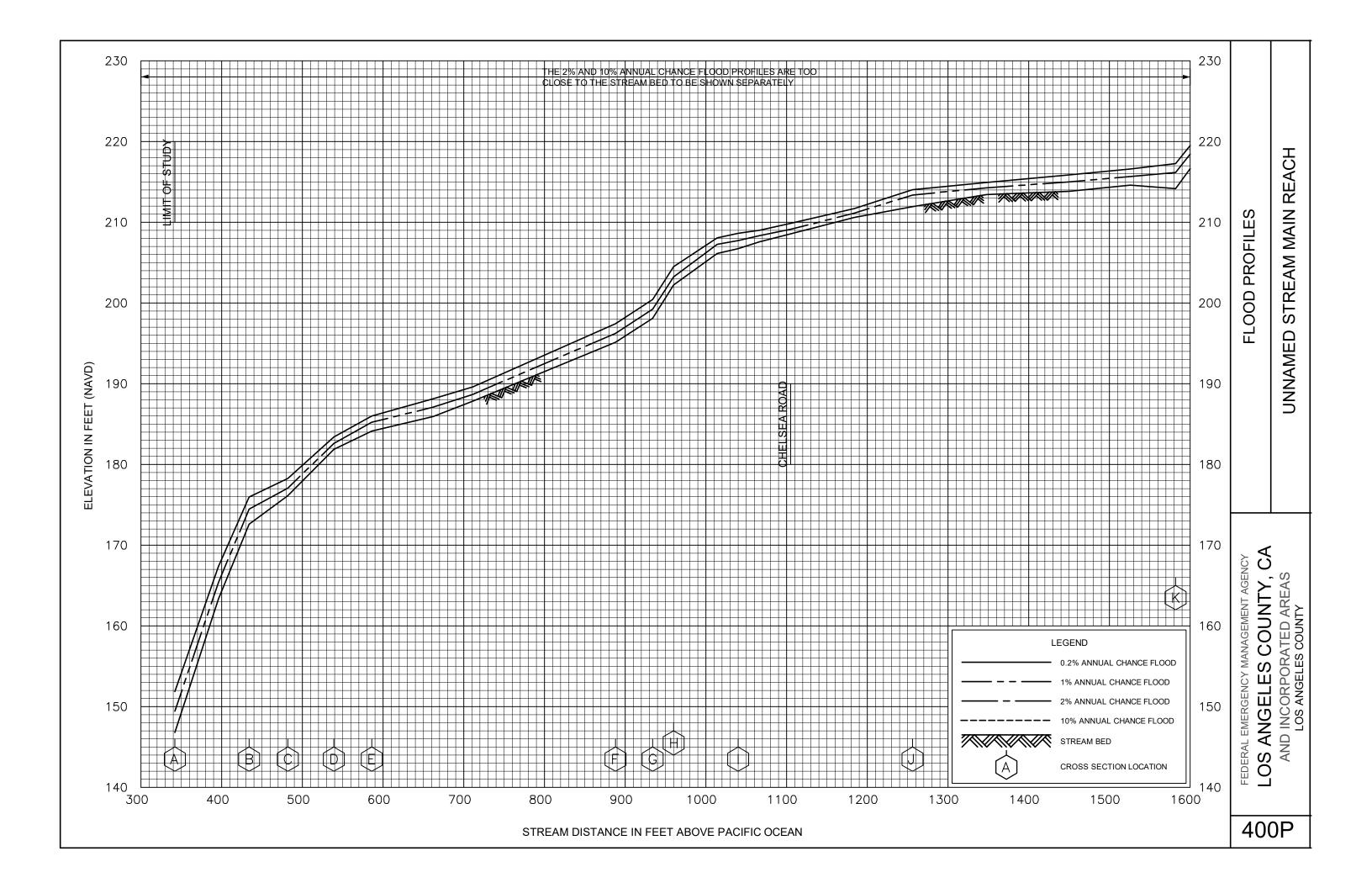
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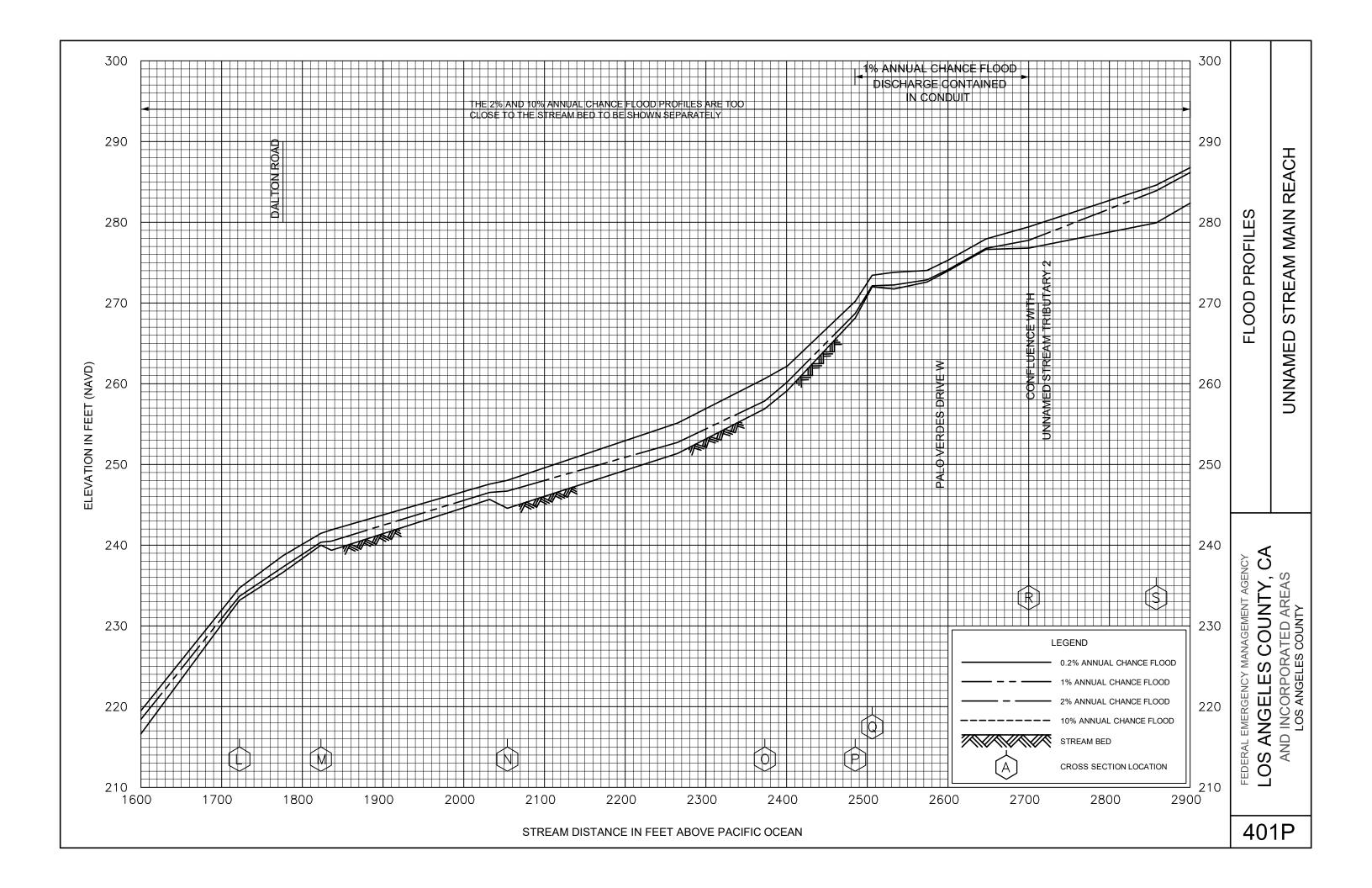
FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS

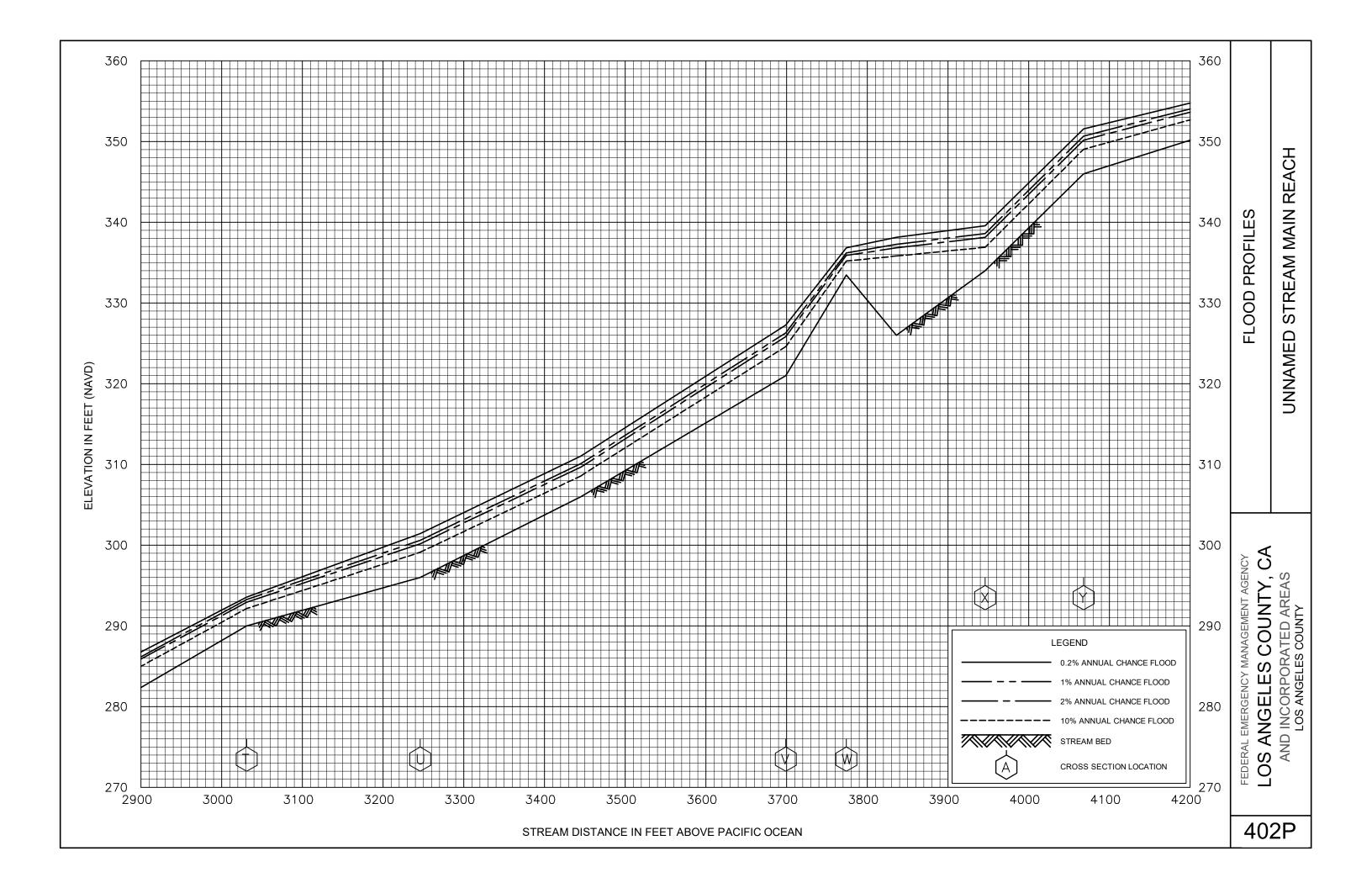


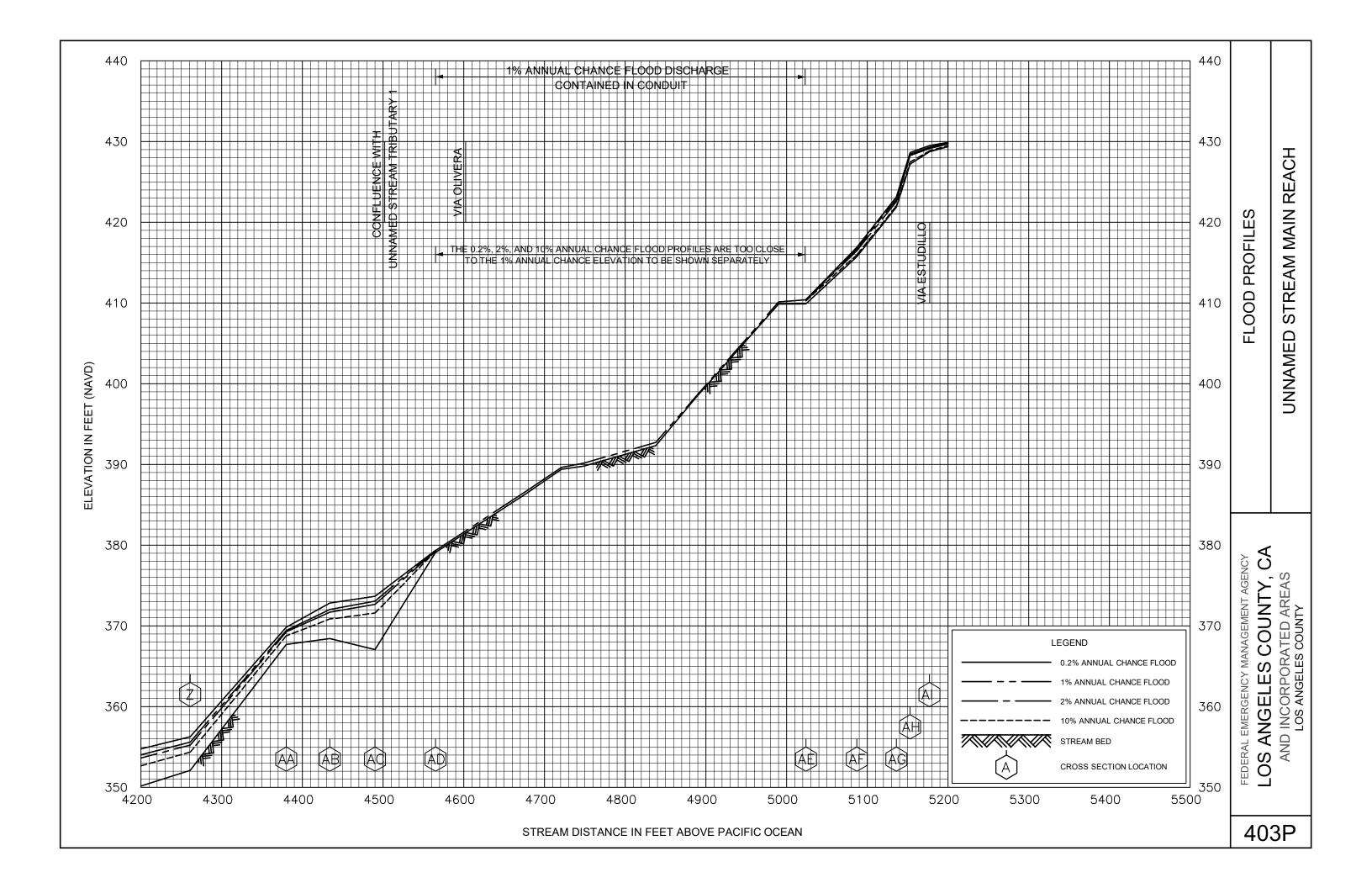
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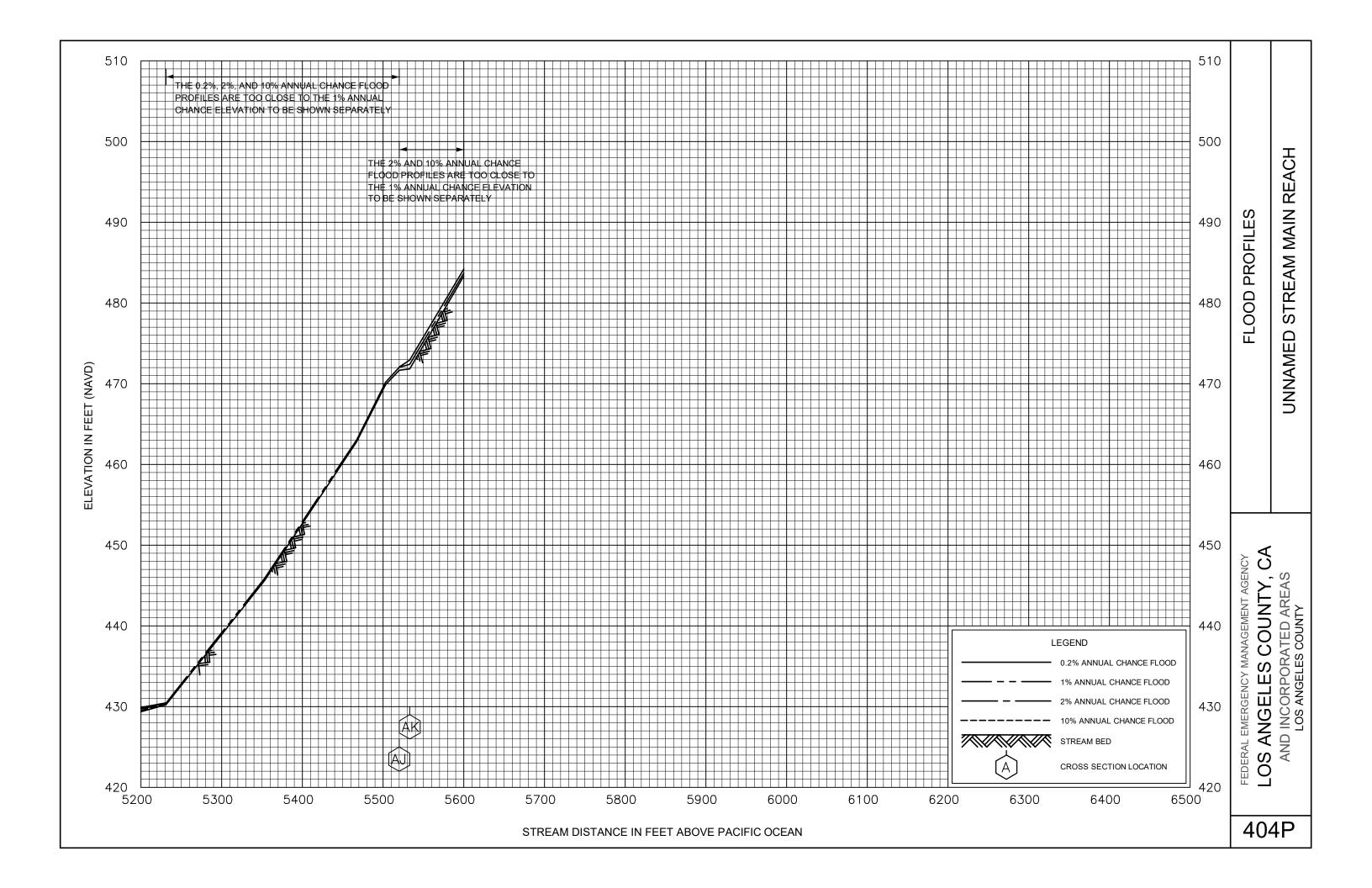
LOS ANGELES COUNTY, CA AND INCORPORATED AREAS

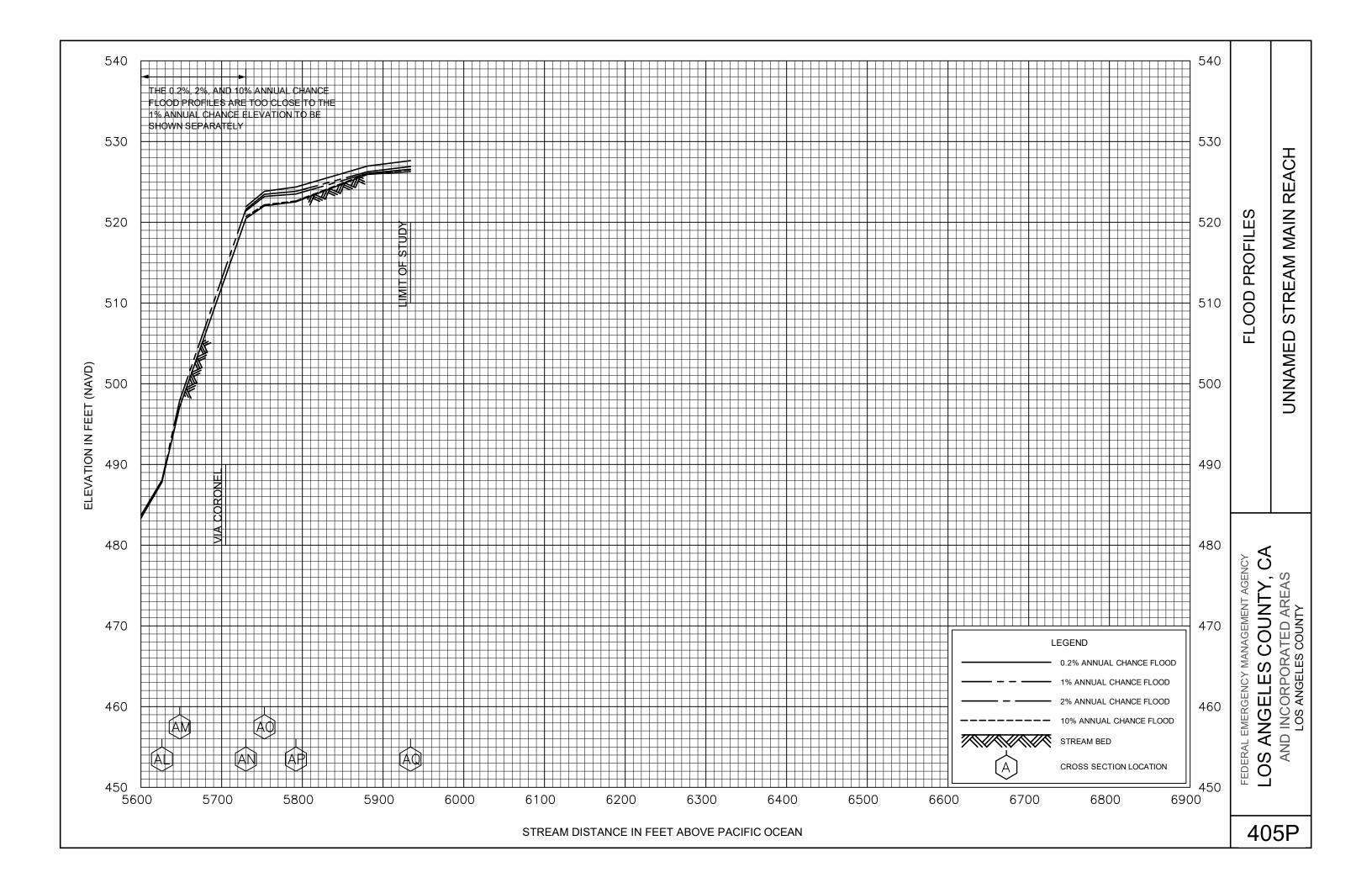


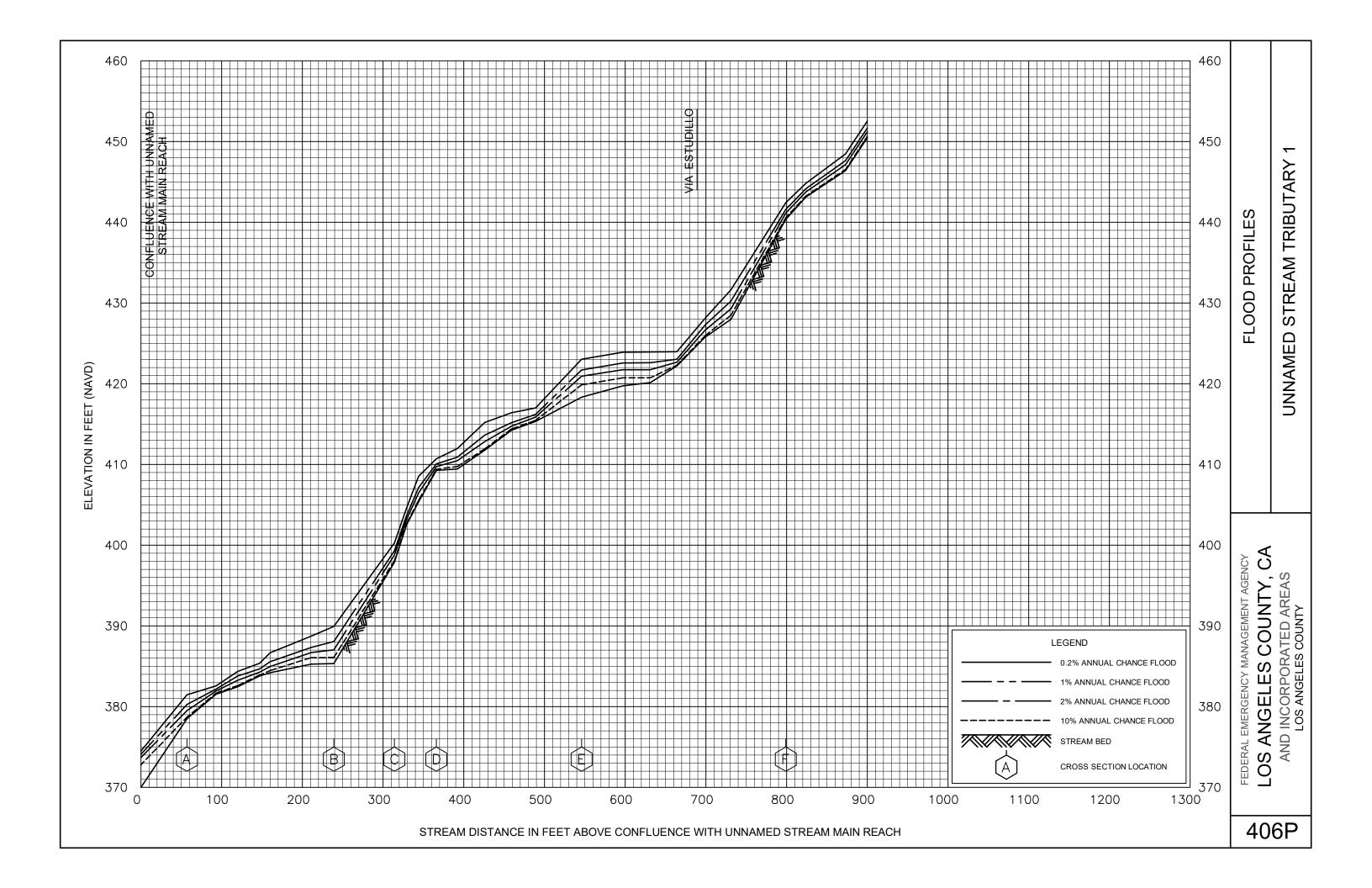


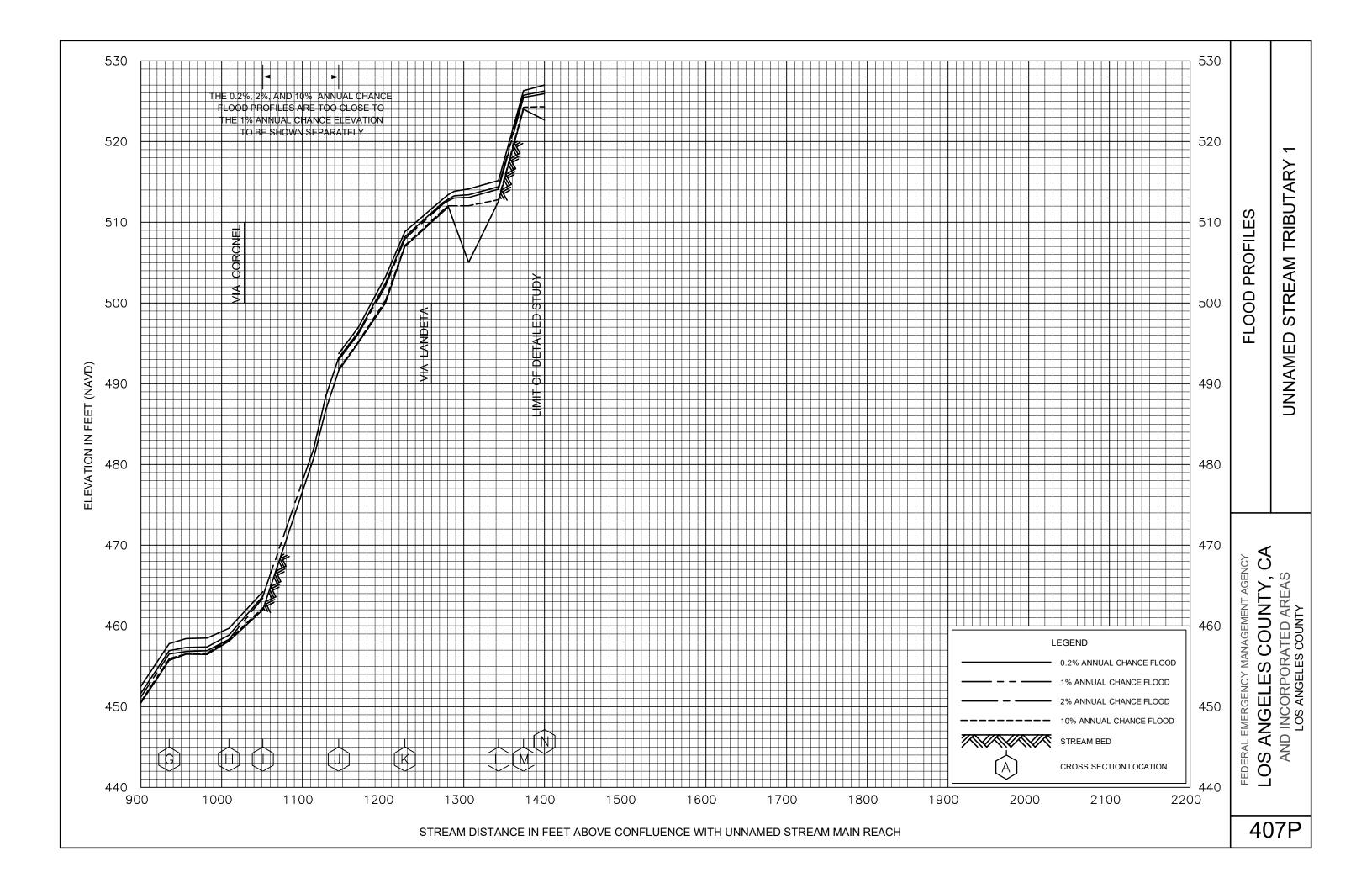


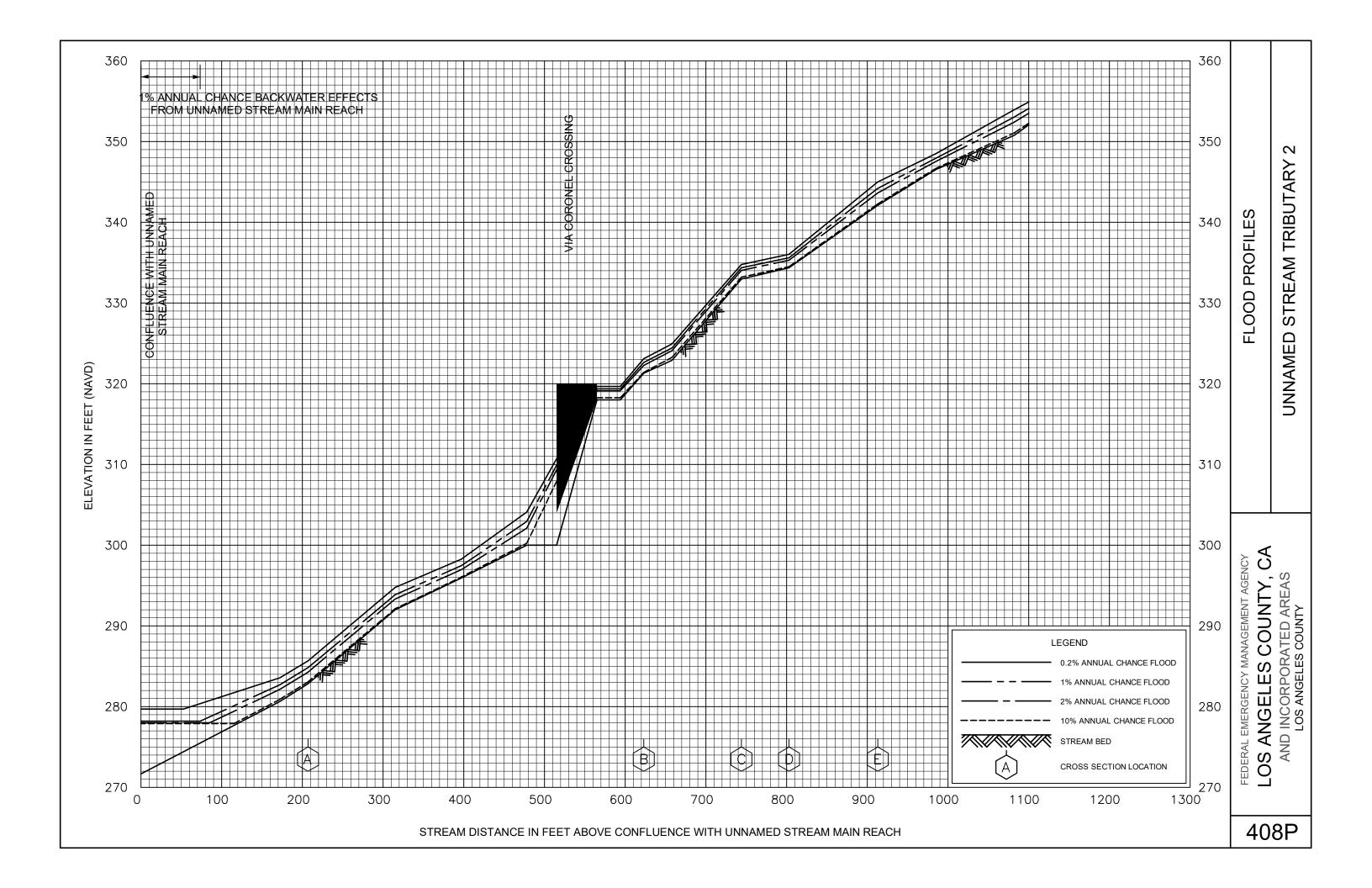


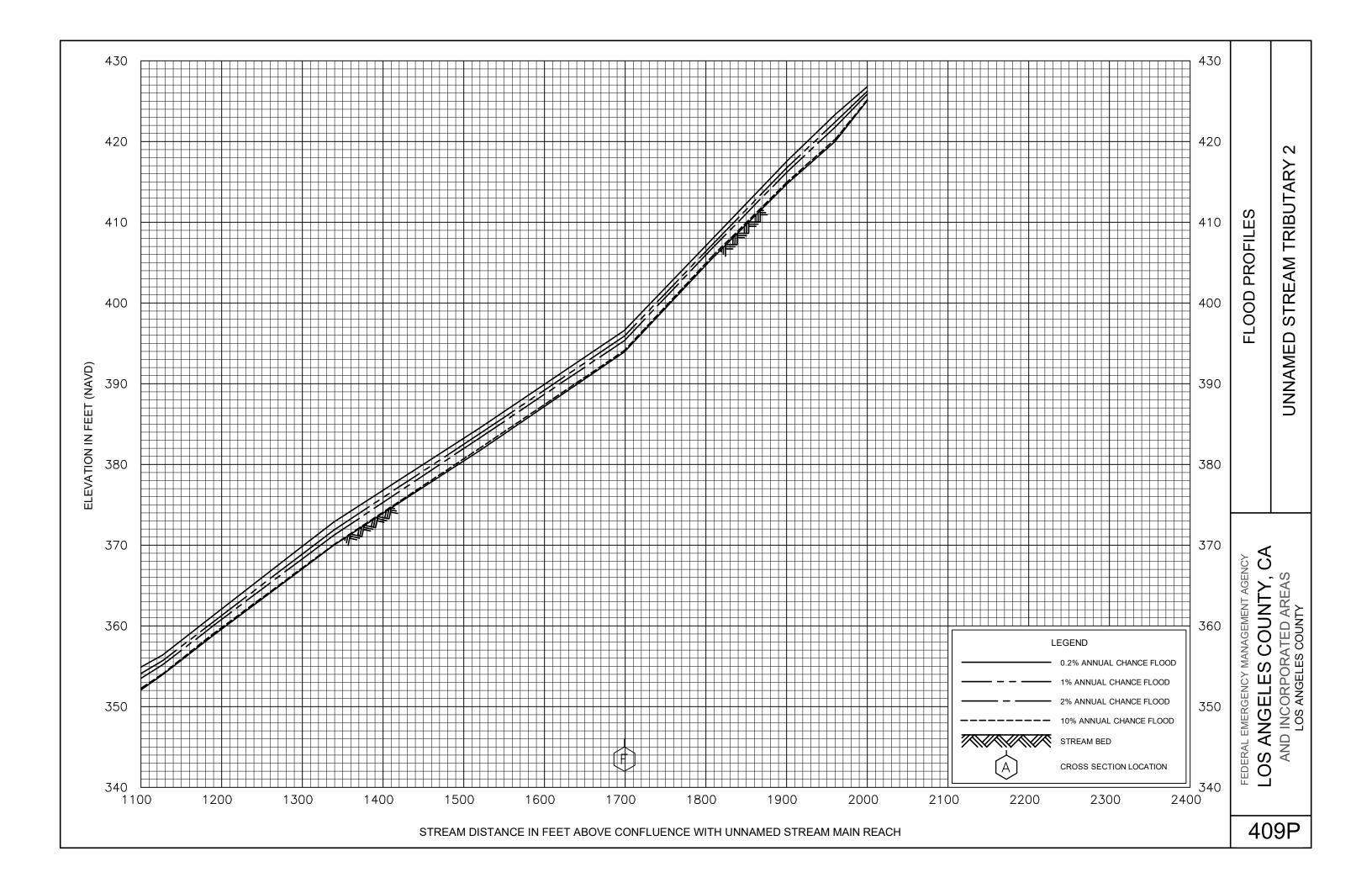


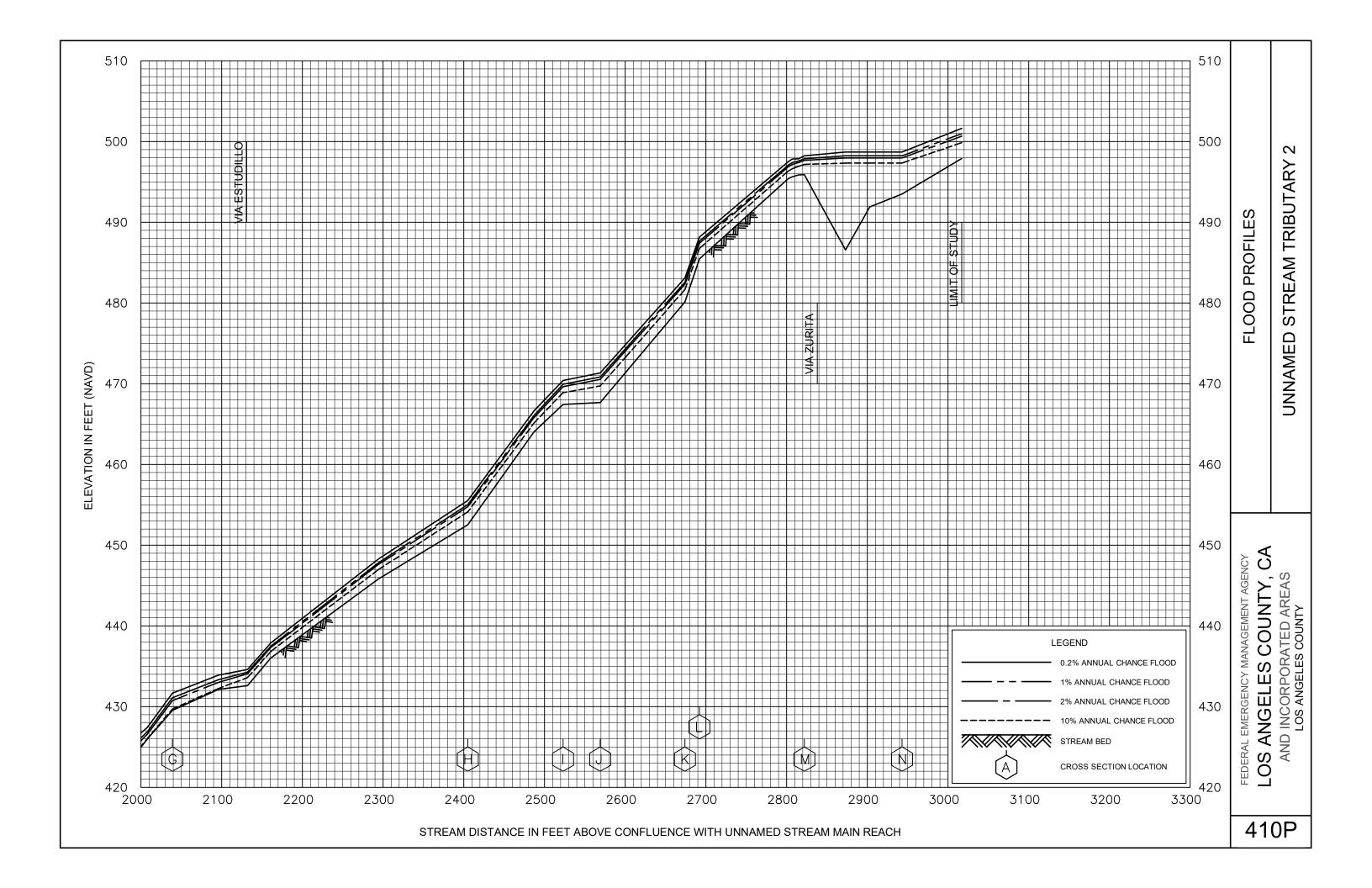


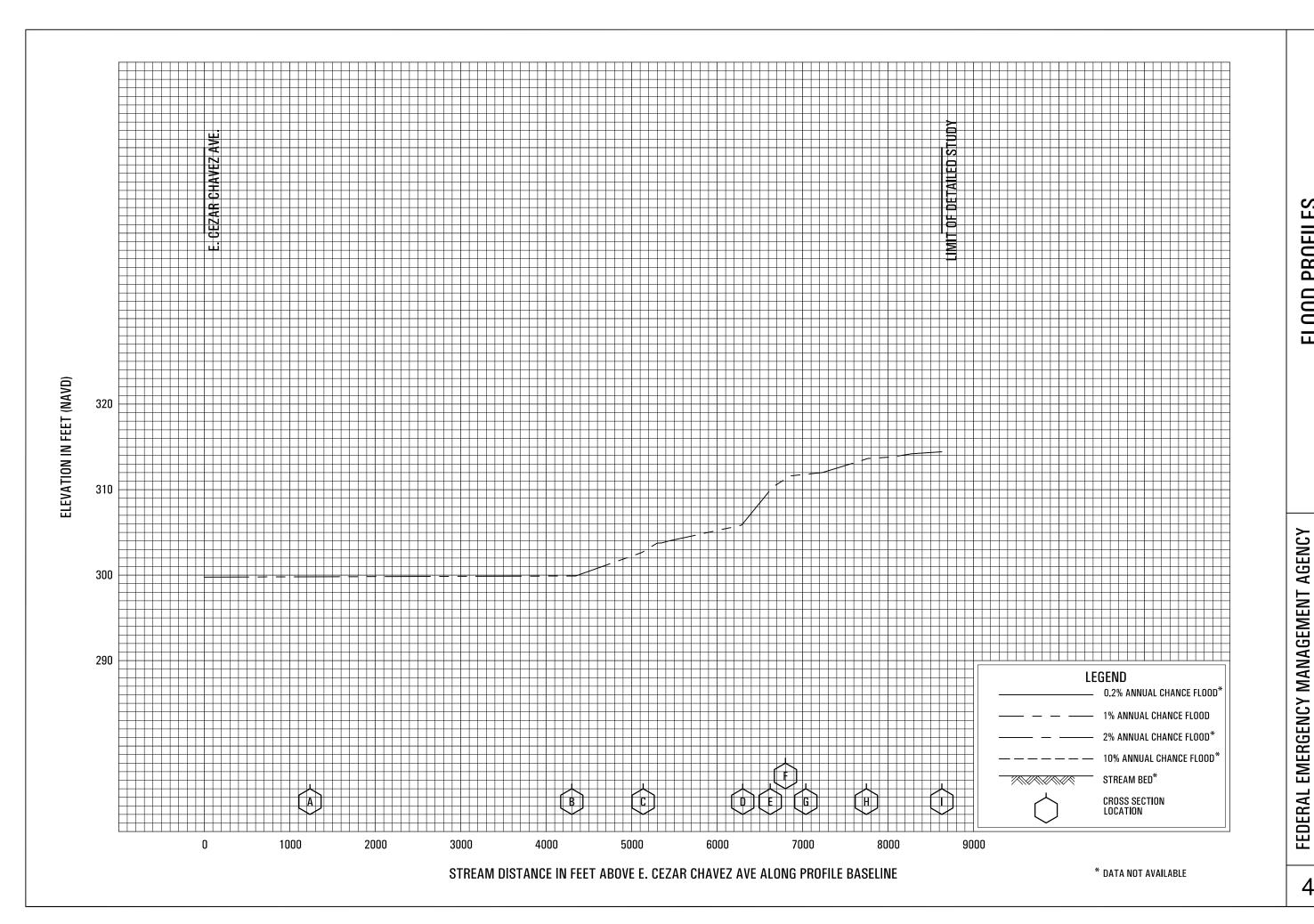






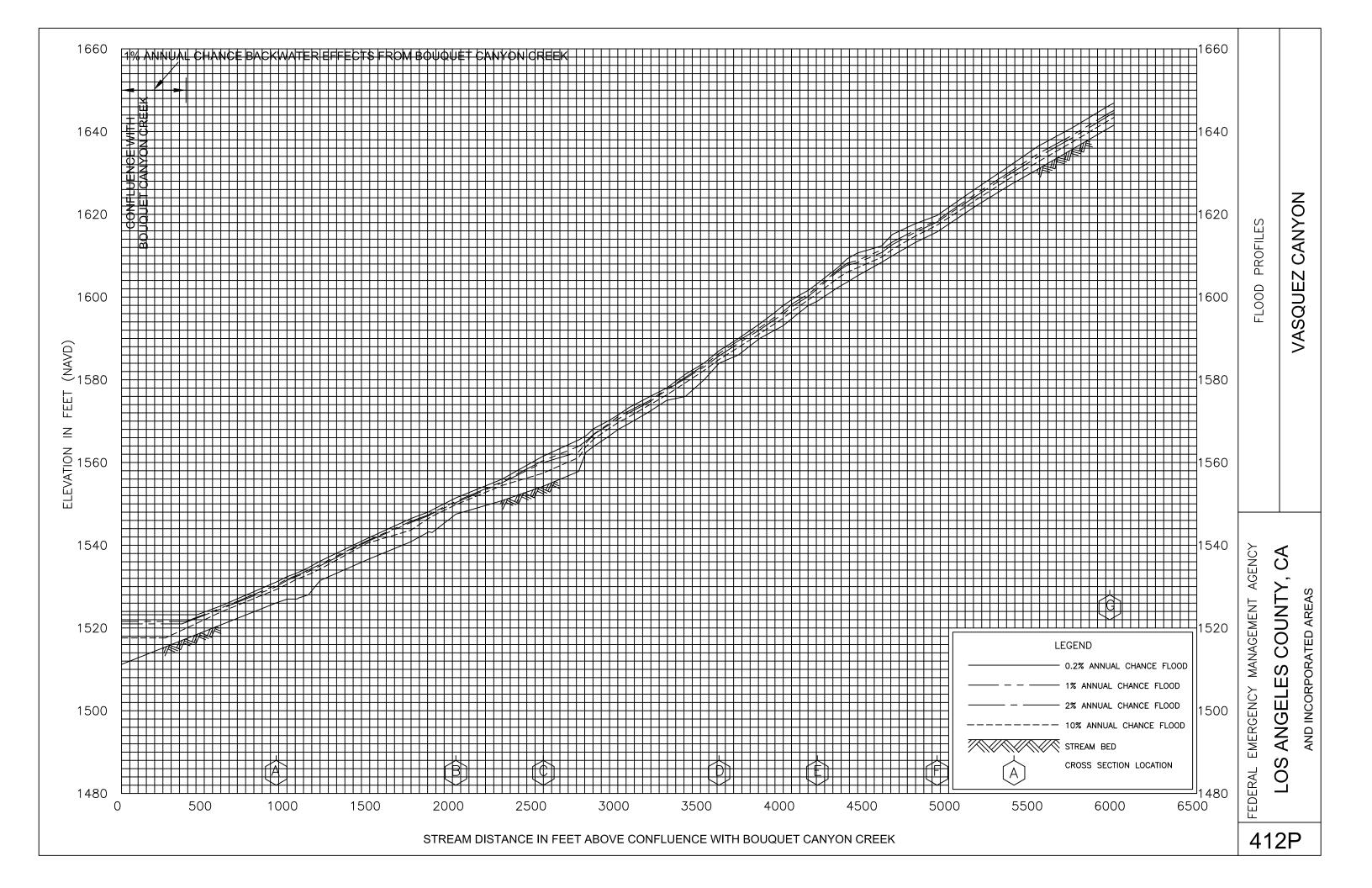


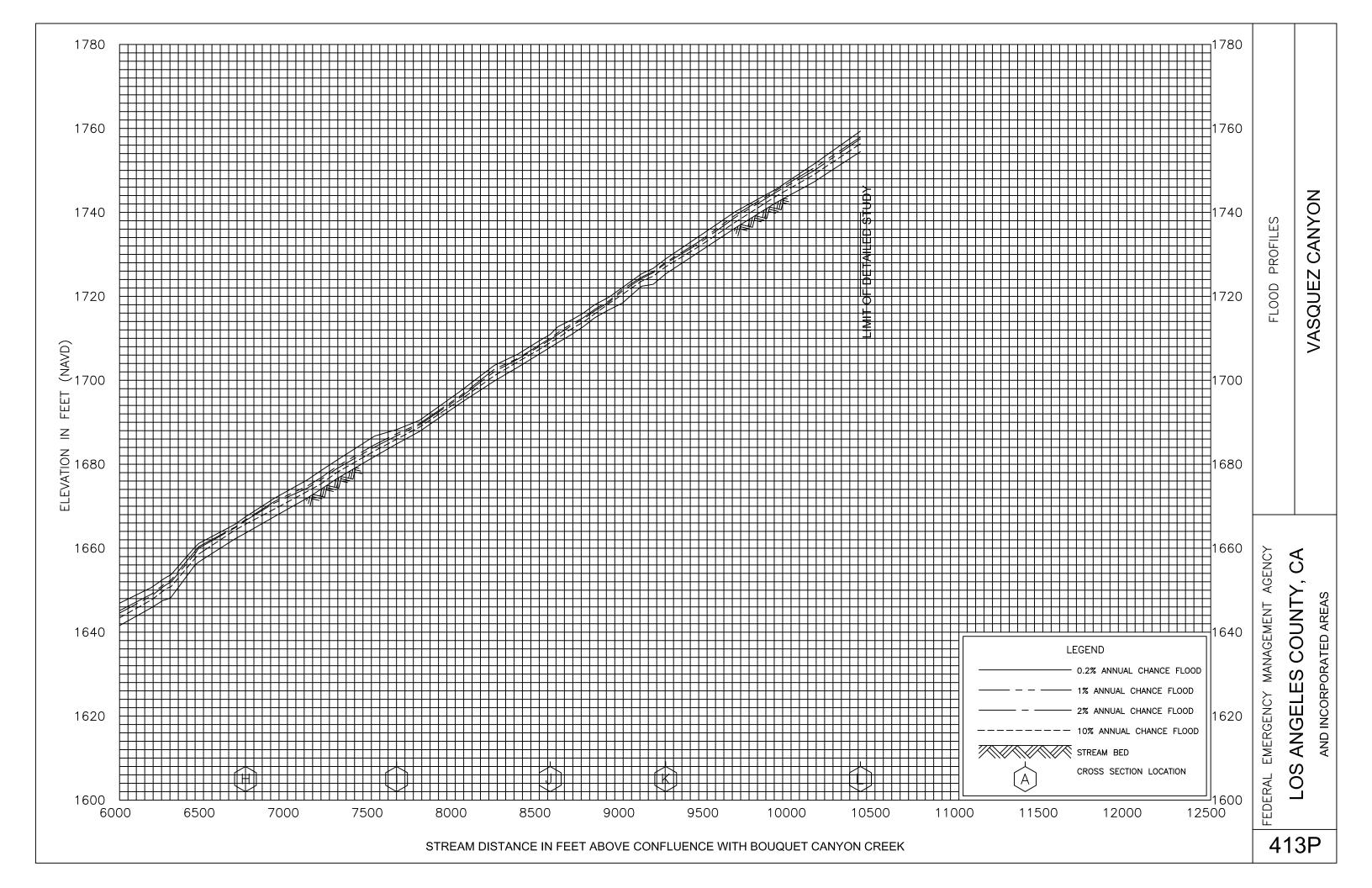


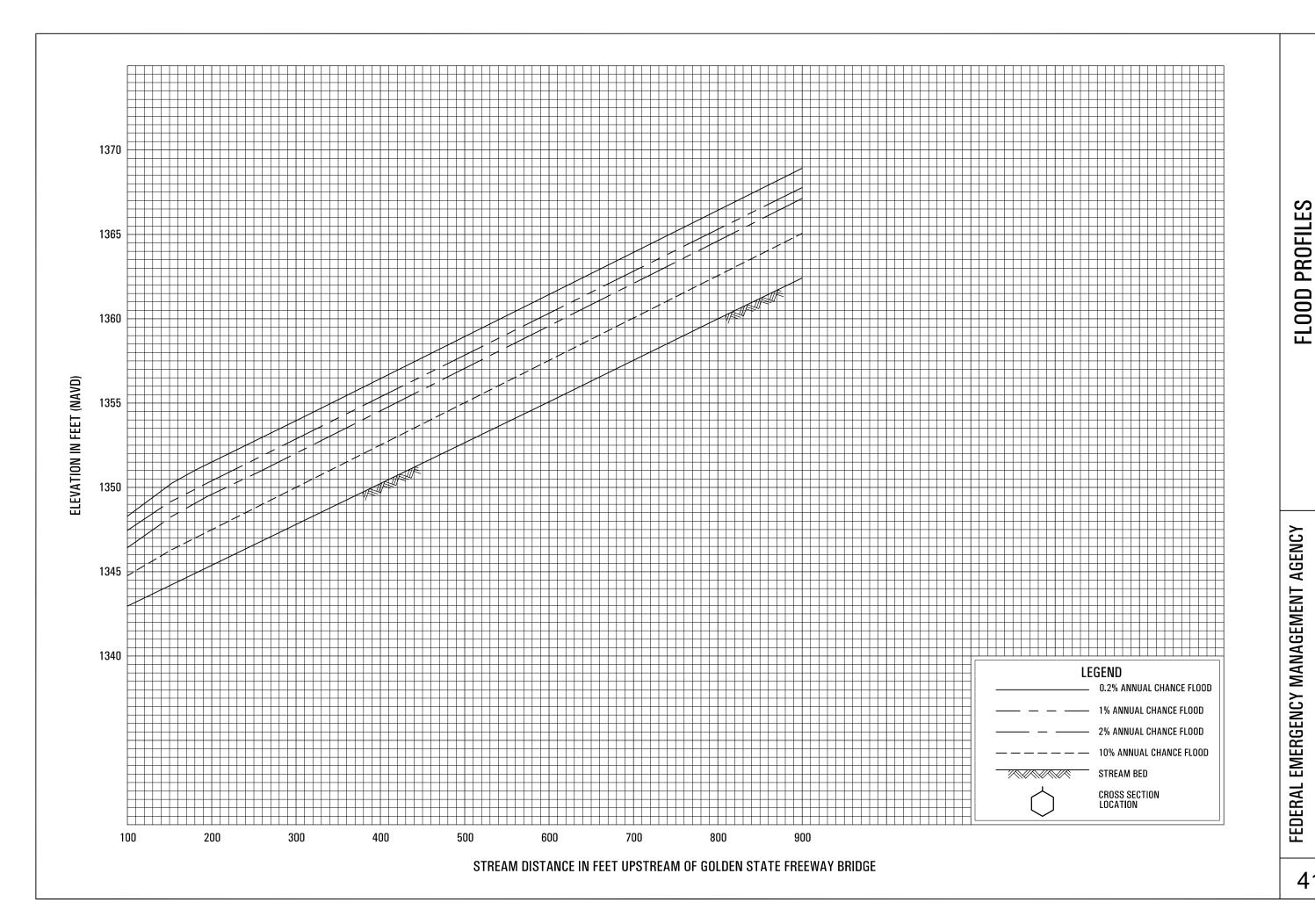


UPPER LOS ANGELES RIVER LEFT OVERBANK

LOS ANGELES COUNTY, CA AND INCORPORATED AREAS

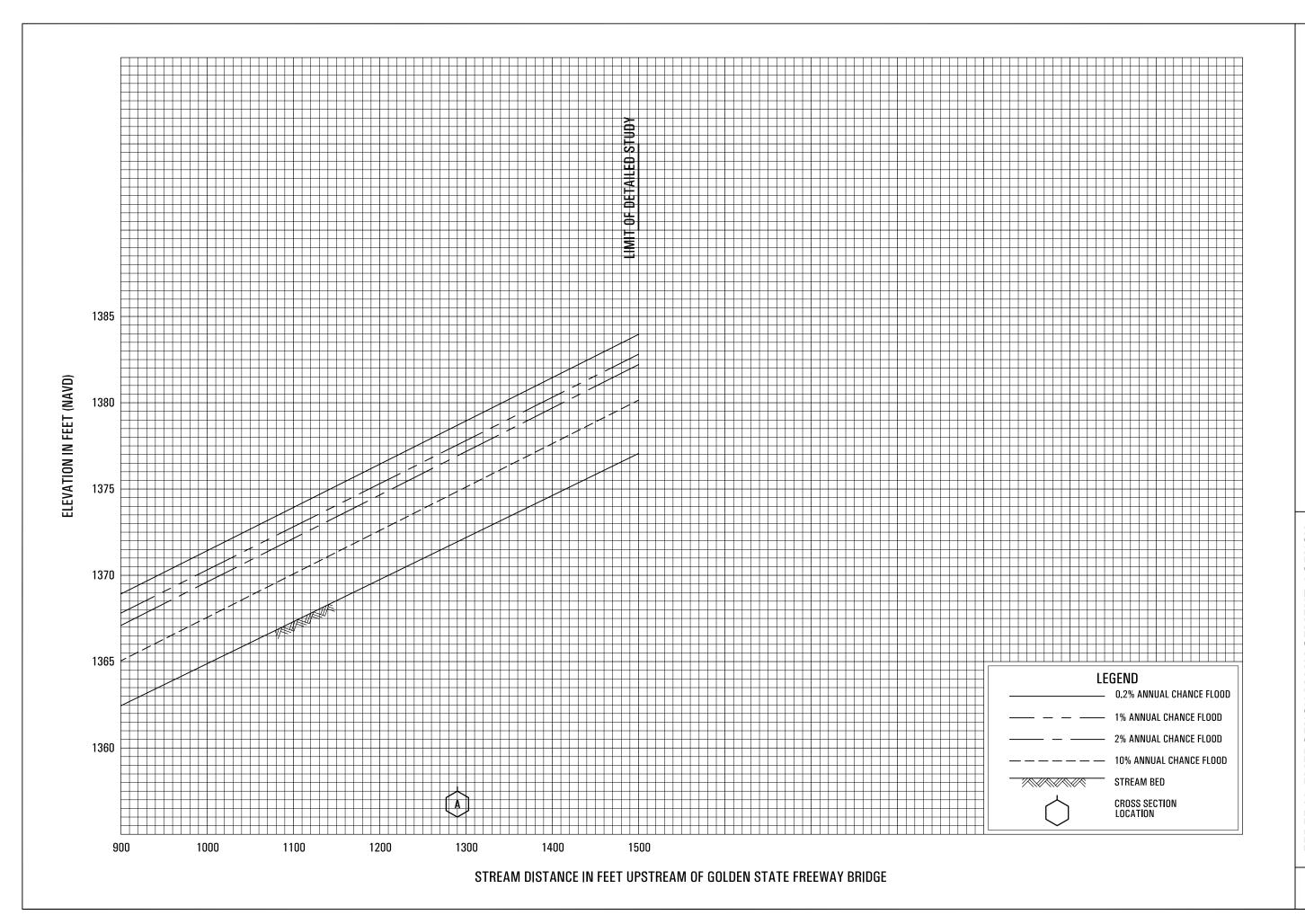






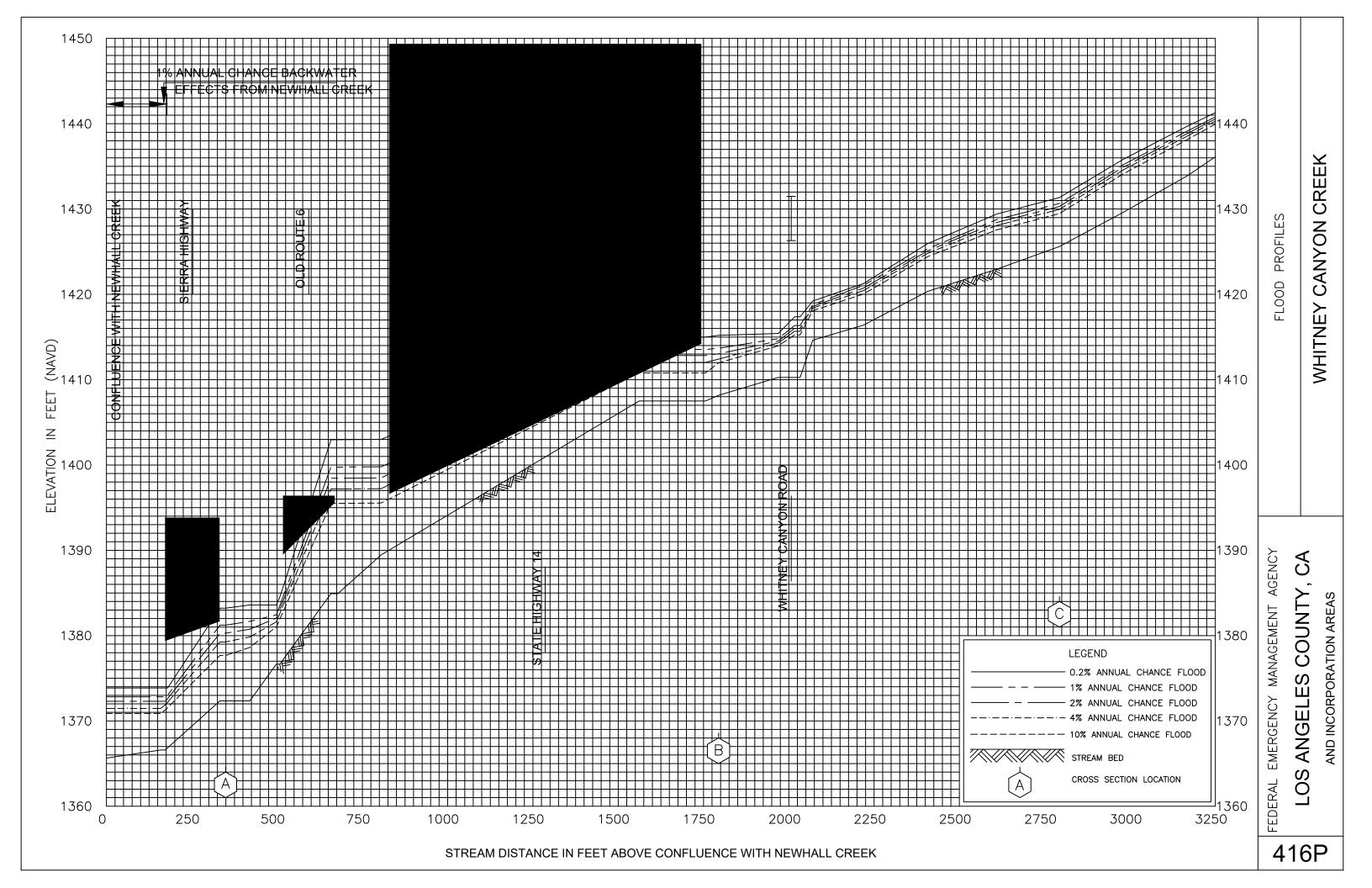
LOS ANGELES COUNTY, CA AND INCORPORATED AREAS

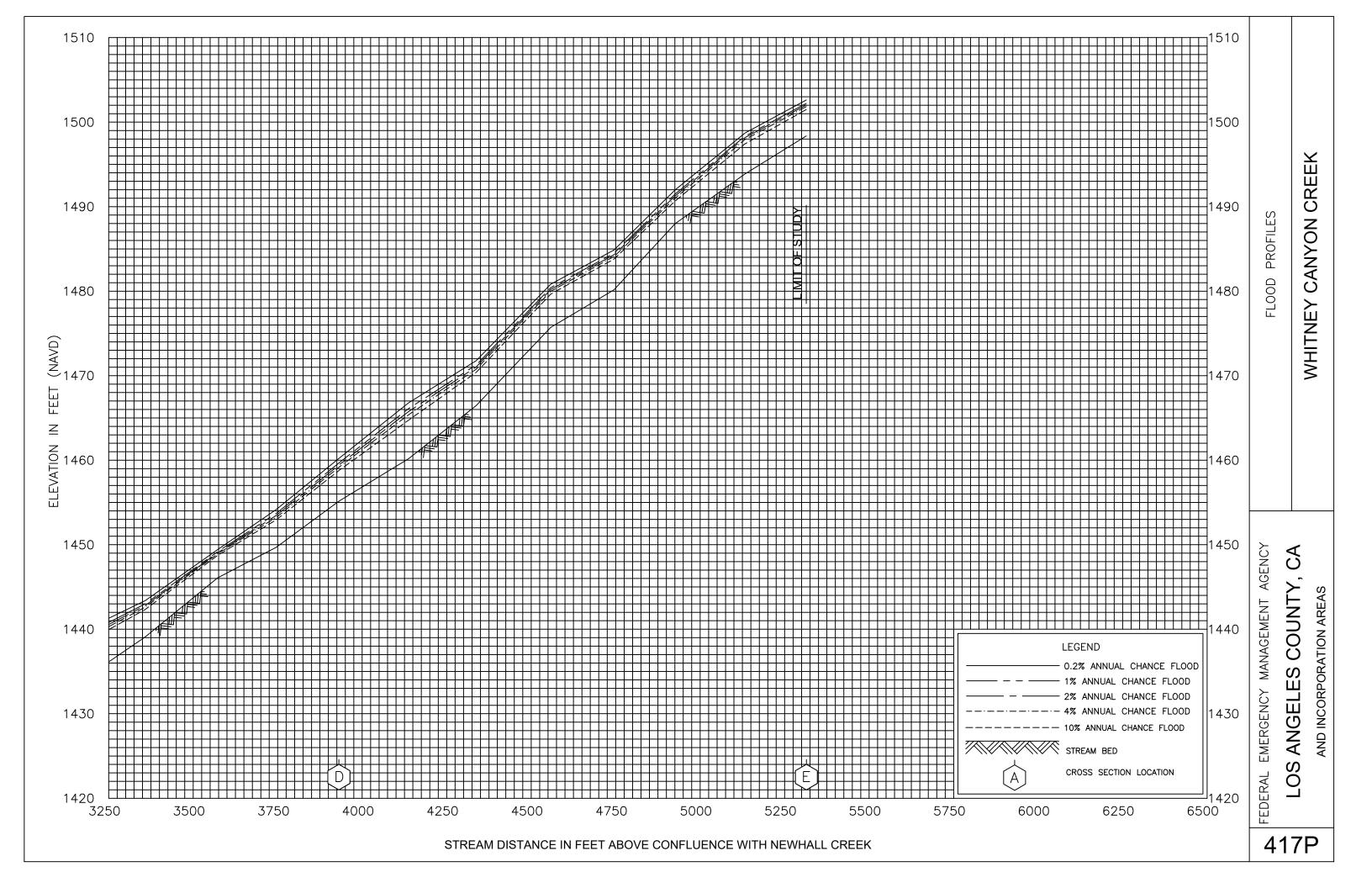
**WELDON CANYON** 

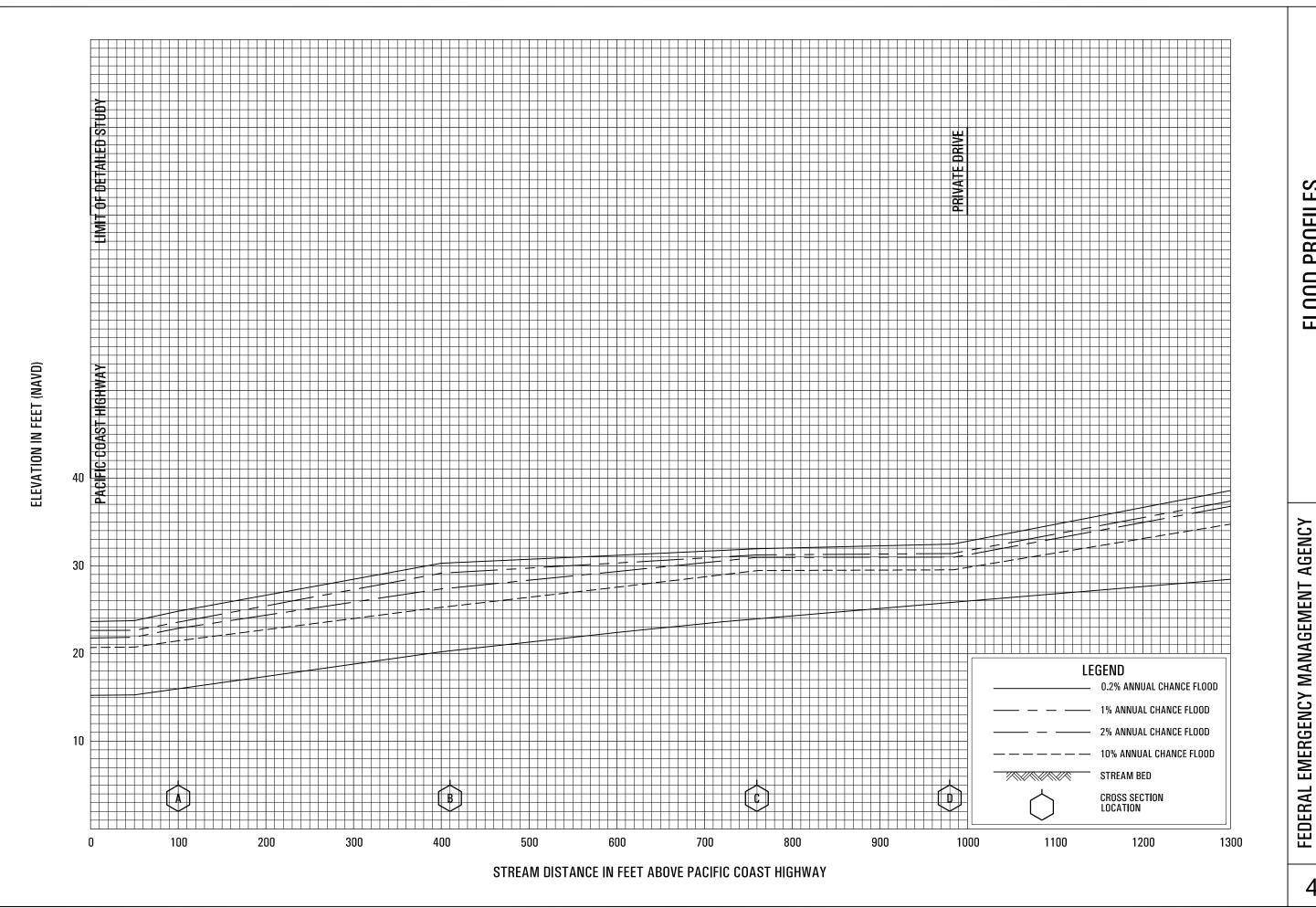


WELDON CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS





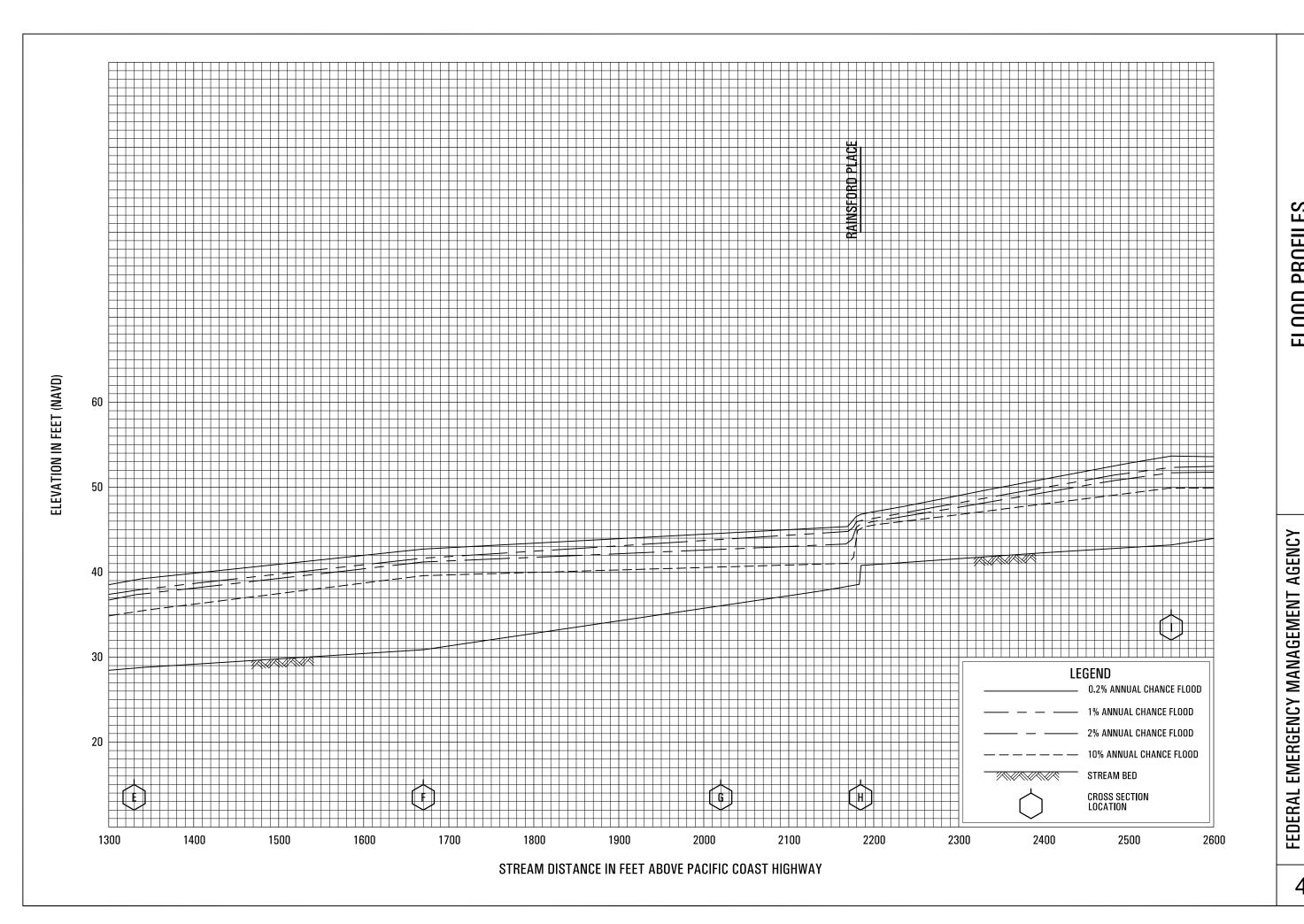


**ZUMA CANYON** 

418P

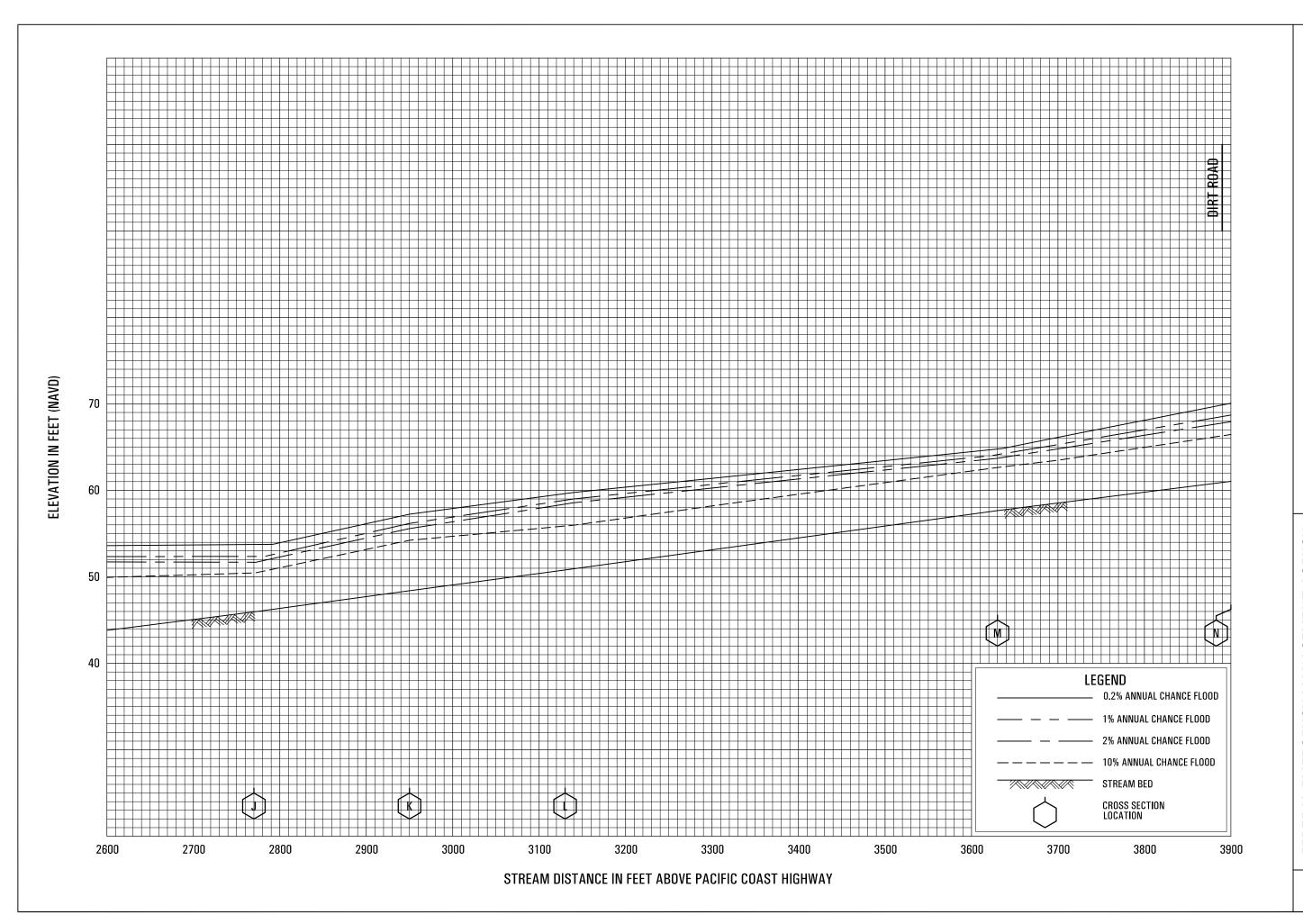
LOS ANGELES COUNTY, CA

AND INCORPORATED AREAS



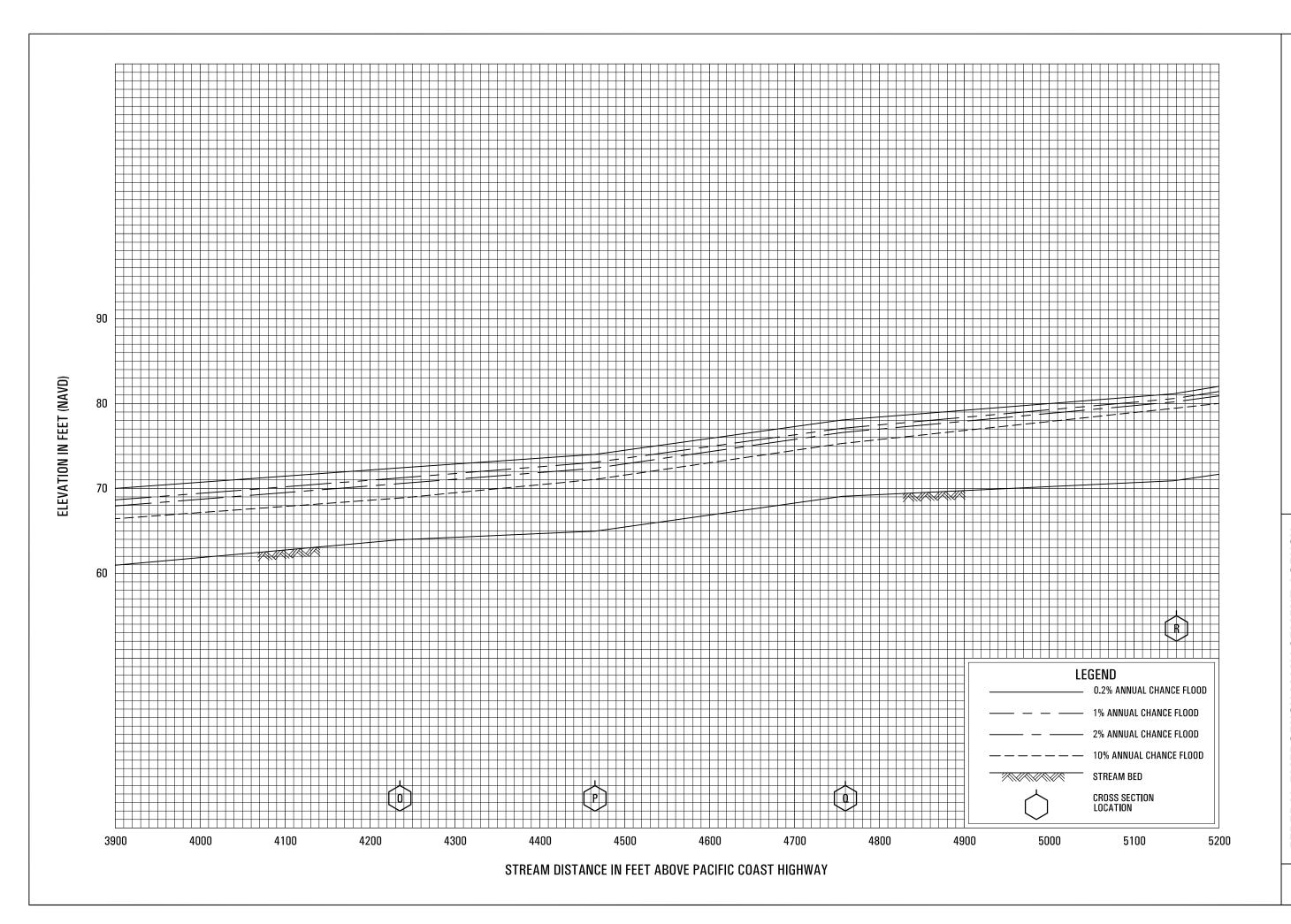
**ZUMA CANYON** 

LOS ANGELES COUNTY, CA AND INCORPORATED AREAS



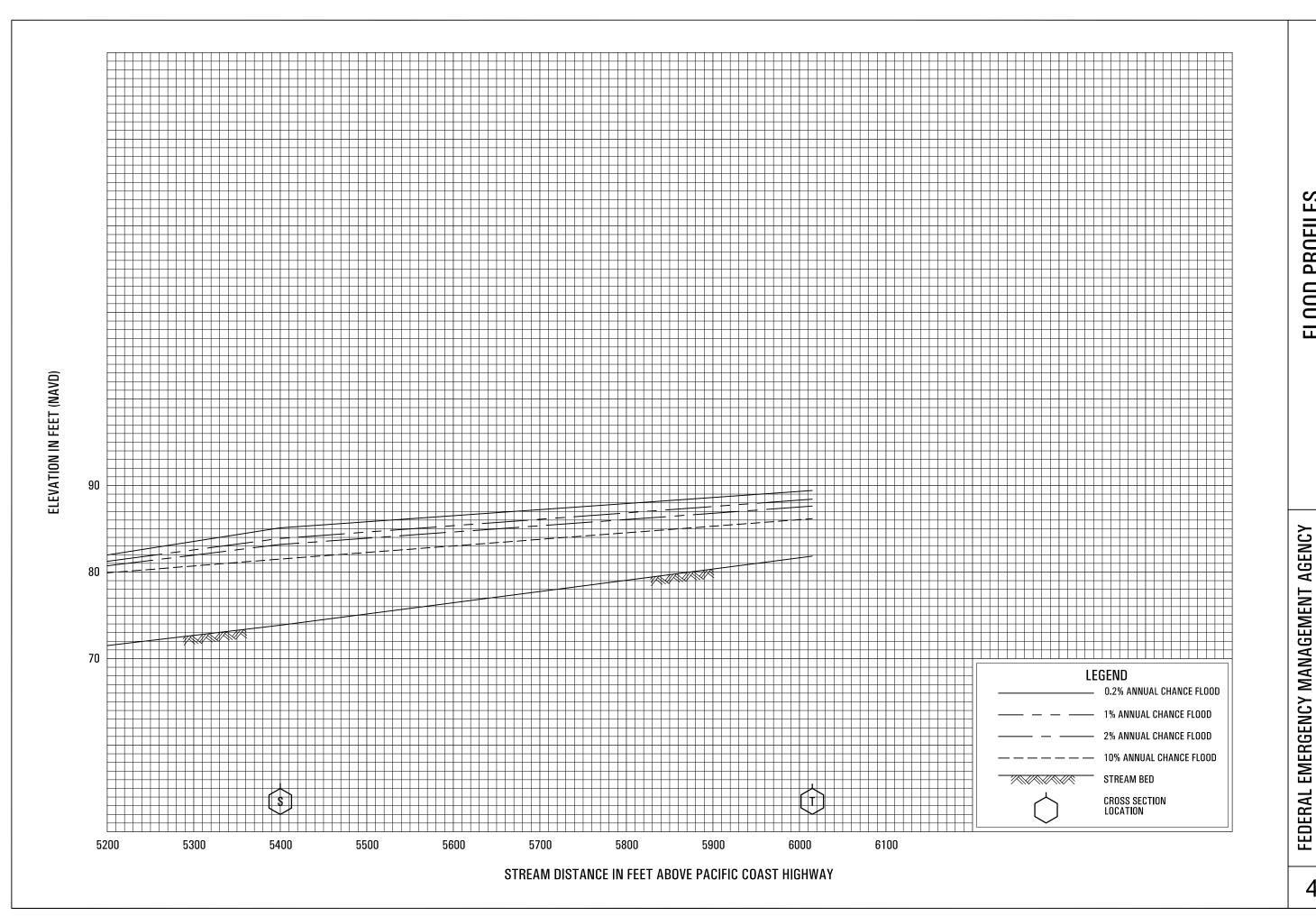
ZUMA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



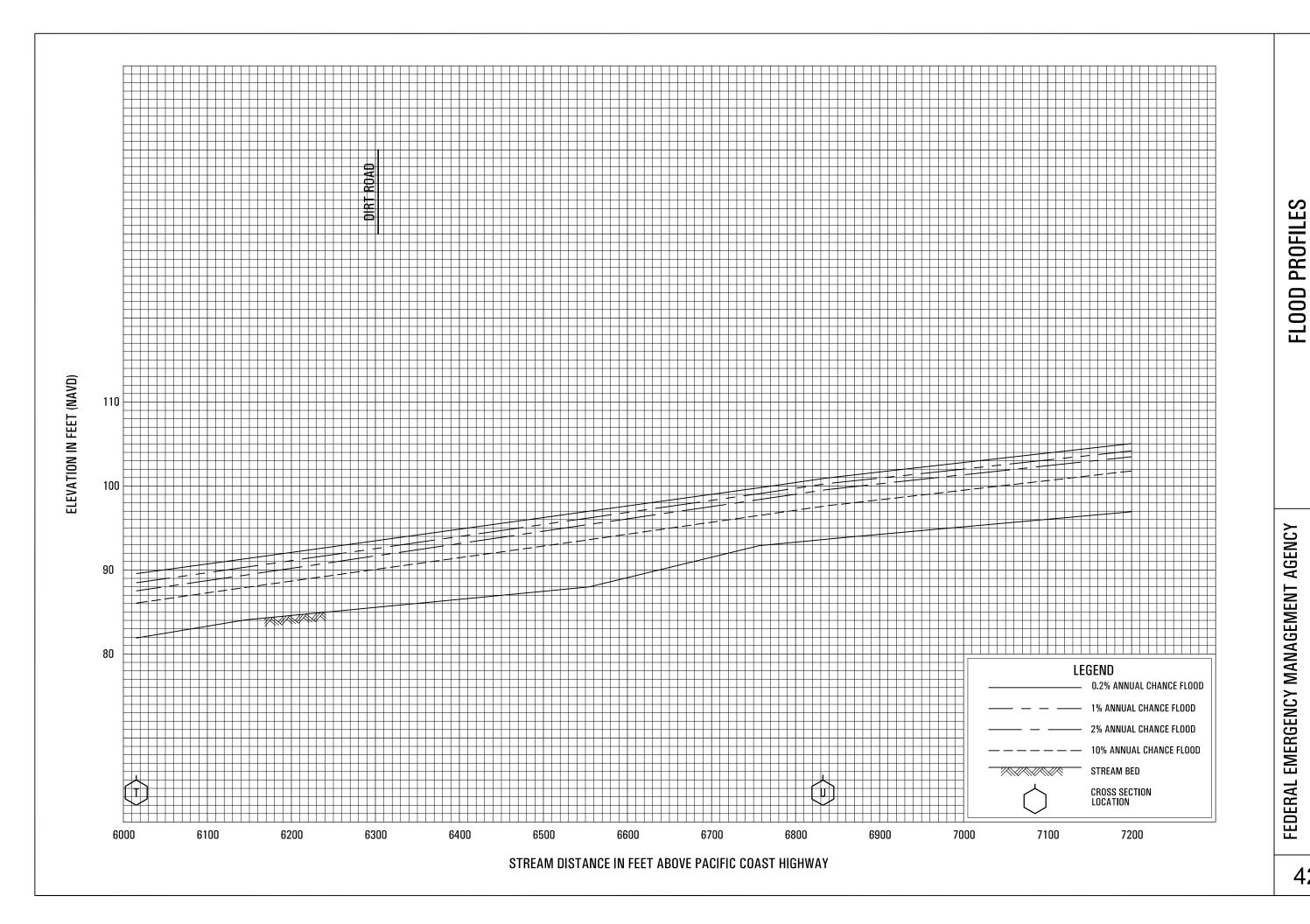
ZUMA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



**ZUMA CANYON** 

LOS ANGELES COUNTY, CA AND INCORPORATED AREAS

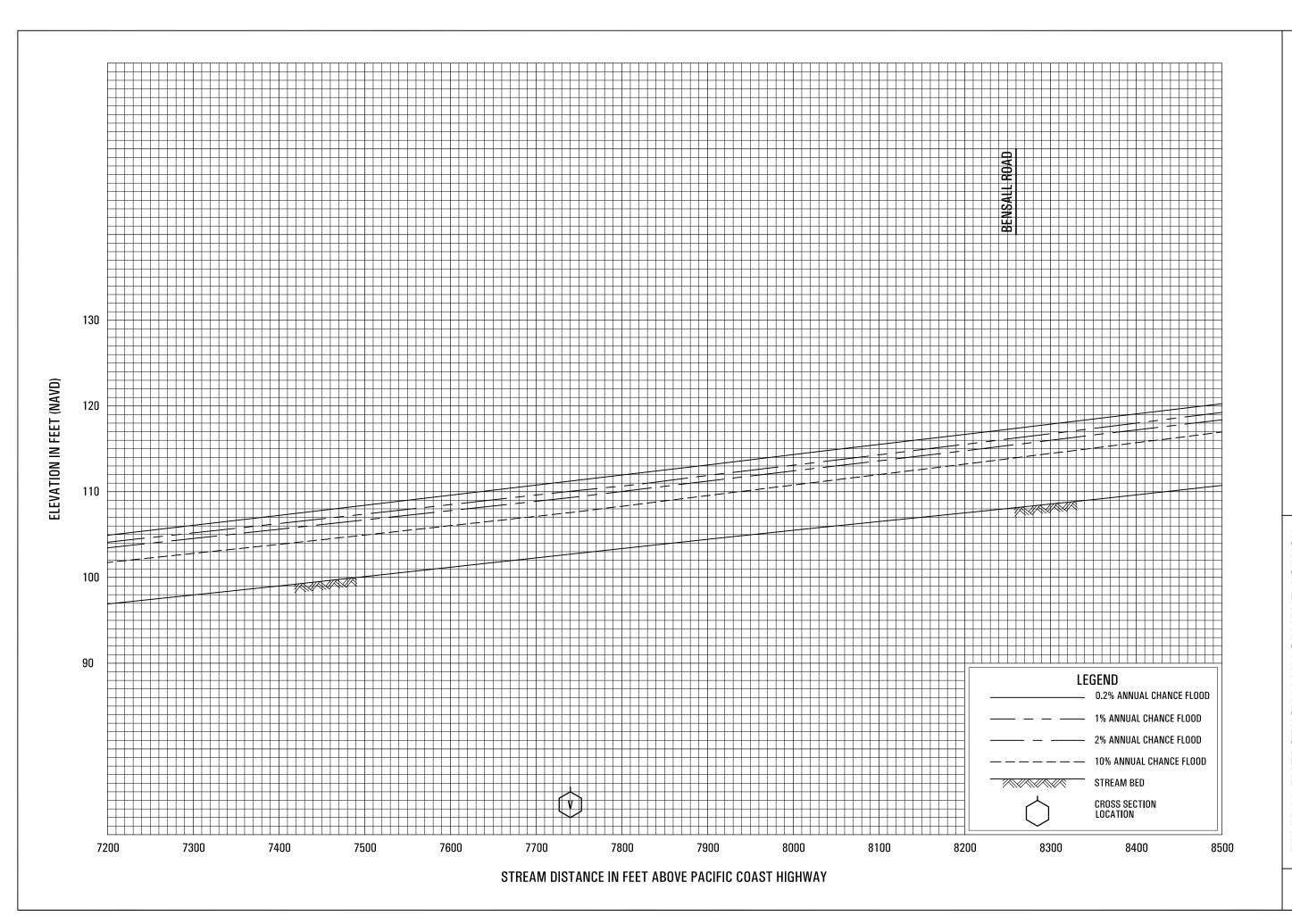


423P

LOS ANGELES COUNTY, CA

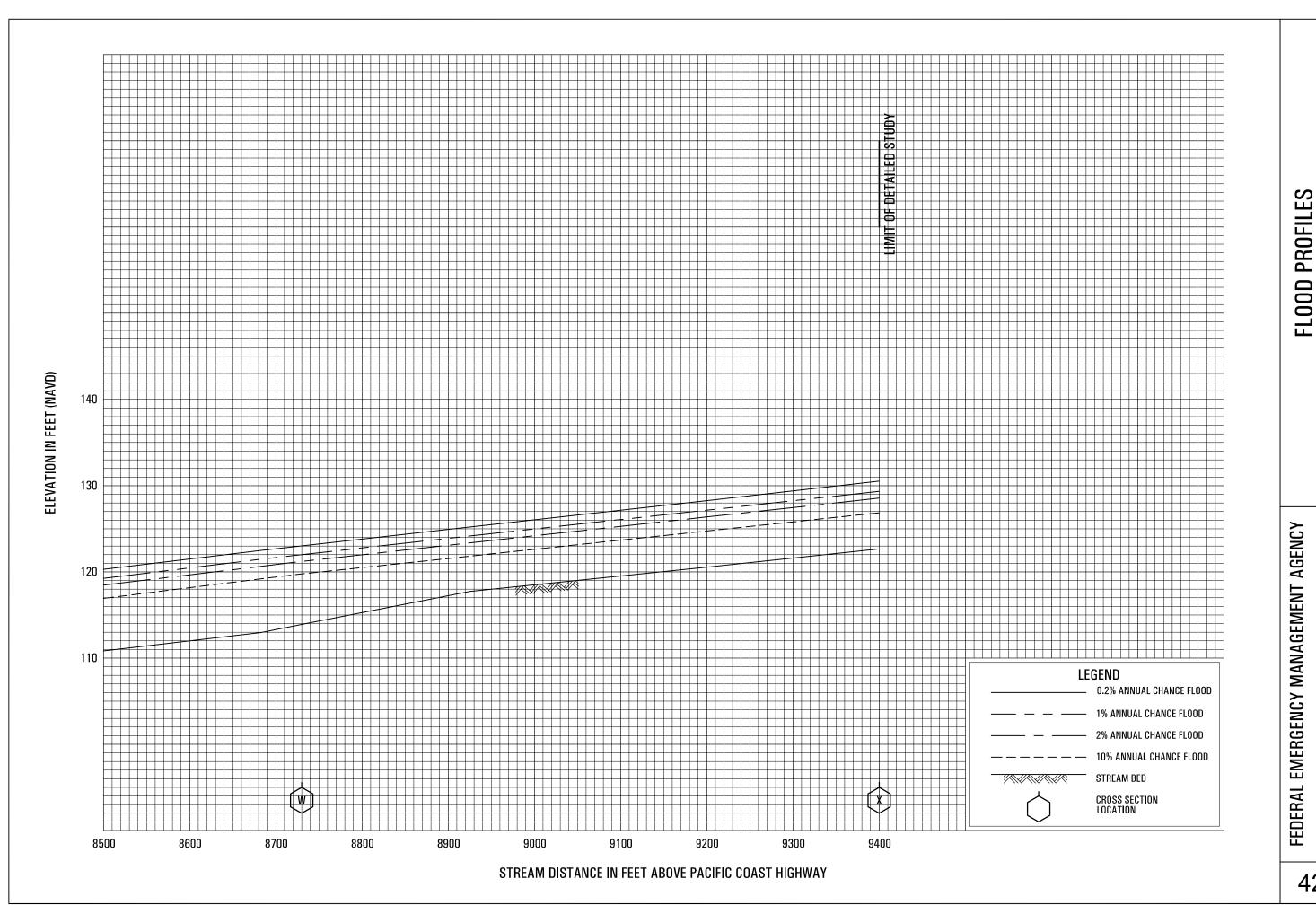
AND INCORPORATED AREAS

**ZUMA CANYON** 



ZUMA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



LOS ANGELES COUNTY, CA

AND INCORPORATED AREAS

**ZUMA CANYON**