FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 2 OF 3

ORANGE COUNTY, CALIFORNIA

AND INCORPORATED AREAS

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
ALISO VIEJO, CITY OF	060770	LAKE FOREST, CITY OF	060759
ANAHEIM, CITY OF	060213	LOS ALAMITOS, CITY OF	060226
BREA, CITY OF	060214	MISSION VIEJO, CITY OF	060735
BUENA PARK, CITY OF	060215	NEWPORT BEACH, CITY OF	060227
COSTA MESA, CITY OF	060216	ORANGE, CITY OF	060228
CYPRESS, CITY OF	060217	ORANGE COUNTY (UNINCORPORATED AREAS)	060212
DANA POINT, CITY OF	060736	PLACENTIA, CITY OF	060229
FOUNTAIN VALLEY, CITY OF	060218	RANCHO SANTA MARGARITA, CITY OF	060769
FULLERTON, CITY OF	060219	SAN CLEMENTE, CITY OF	060230
GARDEN GROVE, CITY OF	060220	SAN JUAN CAPISTRANO, CITY OF	060231
HUNTINGTON BEACH, CITY OF	065034	SANTA ANA, CITY OF	060232
IRVINE, CITY OF	060222	SEAL BEACH, CITY OF	060233
LA HABRA, CITY OF	060224	STANTON, CITY OF	060234
LA PALMA, CITY OF[1]	060225	TUSTIN, CITY OF	060235
LAGUNA BEACH, CITY OF	060223	VILLA PARK, CITY OF	060236
LAGUNA HILLS, CITY OF	060760	WESTMINSTER, CITY OF	060237
LAGUNA NIGUEL, CITY OF	060764	YORBA LINDA, CITY OF	060238
LAGUNA WOODS, CITY OF	060768		

[1]No Special Flood Hazard Areas Identified

REVISED:

MARCH 21, 2019

FLOOD INSURANCE STUDY NUMBER
06059CV002C

Version Number 2.3.3.1

FEMA

TABLE OF CONTENTS
Volume 1

		Page
SECTION 1.0 – INTRODUCTION		**1**
1.1	The National Flood Insurance Program	1
1.2	Purpose of this Flood Insurance Study Report	2
1.3	Jurisdictions Included in the Flood Insurance Study Project	2
1.4	Considerations for using this Flood Insurance Study Report	13
SECTION 2.0 – FLOODPLAIN MANAGEMENT APPLICATIONS		**24**
2.1	Floodplain Boundaries	24
2.2	Floodways	37
2.3	Base Flood Elevations	38
2.4	Non-Encroachment Zones	38
2.5	Coastal Flood Hazard Areas	39
2.5.1	Water Elevations and the Effects of Waves	39
2.5.2	Floodplain Boundaries and BFEs for Coastal Areas	40
2.5.3	Coastal High Hazard Areas	41
2.5.4	Limit of Moderate Wave Action	42
SECTION 3.0 – INSURANCE APPLICATIONS		**43**
3.1	National Flood Insurance Program Insurance Zones	43
3.2	Coastal Barrier Resources System	44
SECTION 4.0 – AREA STUDIED		**45**
4.1	Basin Description	45
4.2	Principal Flood Problems	45
4.3	Non-Levee Flood Protection Measures	48
4.4	Levees	49
SECTION 5.0 – ENGINEERING METHODS		**54**
5.1	Hydrologic Analyses	54
5.2	Hydraulic Analyses	84
5.3	Coastal Analyses	93
5.3.1	Total Stillwater Elevations	94
5.3.2	Waves	95
5.3.3	Coastal Erosion	96
5.3.4	Wave Hazard Analyses	96
5.4	Alluvial Fan Analyses	118
SECTION 6.0 – MAPPING METHODS		**119**
6.1	Vertical and Horizontal Control	119
6.2	Base Map	119
6.3	Floodplain and Floodway Delineation	121
6.4	Coastal Flood Hazard Mapping	150
6.5	FIRM Revisions	154

6.5.1 Letters of Map Amendment 155
6.5.2 Letters of Map Revision Based on Fill 155
6.5.3 Letters of Map Revision 155
6.5.4 Physical Map Revisions 156
6.5.5 Contracted Restudies 157
6.5.6 Community Map History 157

SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION 161
7.1 Contracted Studies 161
7.2 Community Meetings 165

SECTION 8.0 – ADDITIONAL INFORMATION 174

SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES 177

Figures

Page

Figure 1: FIRM Panel Index 16
Figure 2: FIRM Notes to Users 17
Figure 3: Map Legend for FIRM 20
Figure 4: Floodway Schematic 37
Figure 5: Wave Runup Transect Schematic 40
Figure 6: Coastal Transect Schematic 42
Figure 7: Frequency Discharge-Drainage Area Curves 81
Figure 8: 1% Annual Chance Total Stillwater Elevations for Coastal Areas 94
Figure 9: Transect Location Map 109

Tables

Page

Table 1: Listing of NFIP Jurisdictions 2
Table 2: Flooding Sources Included in this FIS Report 25
Table 3: Flood Zone Designations by Community 43
Table 4: Coastal Barrier Resources System Information 44
Table 5: Basin Characteristics 45
Table 6: Principal Flood Problems 46
Table 7: Historic Flooding Elevations 48
Table 8: Non-Levee Flood Protection Measures 48
Table 9: Levees 51
Table 10: Summary of Discharges 55
Table 11: Summary of Non-Coastal Stillwater Elevations 82
Table 12: Stream Gage Information used to Determine Discharges 83
Table 13: Summary of Hydrologic and Hydraulic Analyses 85
Table 14: Roughness Coefficients 91
Table 15: Summary of Coastal Analyses 93

Table 16: Tide Gage Analysis Specifics 95
Table 17: Coastal Transect Parameters 97
Table 18: Summary of Alluvial Fan Analyses 118
Table 19: Results of Alluvial Fan Analyses 118
Table 20: Countywide Vertical Datum Conversion 119
Table 21: Stream-Based Vertical Datum Conversion 119
Table 22: Base Map Sources 120
Table 23: Summary of Topographic Elevation Data used in Mapping 122
Table 24: Floodway Data 123
Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams 150
Table 26: Summary of Coastal Transect Mapping Considerations 151
Table 27: Incorporated Letters of Map Change 156
Table 28: Community Map History 158
Table 29: Summary of Contracted Studies Included in this FIS Report 162
Table 30: Community Meetings 166
Table 31: Map Repositories 174
Table 32: Additional Information 176
Table 33: Bibliography and References 178

Volume 2

Exhibits

Flood Profiles	Panel
Aliso Creek	01-16 P
Atwood Channel	17 P
Big Canyon	18 P
Bluebird Canyon	19-21 P
Bonita Creek	22-26 P
Brea Canyon Channel	27-29 P
Canada Gobernadora	30-32 P
Canyon Acres Wash	33-34 P
Carbon Canyon Channel	35-38 P
Carbon Creek Channel	39 P
Cascadita Creek	40-41 P
Coyote Canyon Wash	42-43 P
Coyote Creek Channel	44 P
East Richfield Channel	45-46 P
El Modena-Irvine Channel	47 P
English Canyon	48-52 P
Facility No. J05	53-54 P
Handy Creek	55-59 P
Hickey Canyon	60-66 P
Horno Creek	67-69 P
Huntington Beach Channel (D01)	70-72 P
La Paz Channel	73-74 P
Laguna Canyon	75-85 P
Loftus Diversion Channel	86 P
Memory Garden Storm Channel	87-88 P
Modjeska Canyon	89-94 P

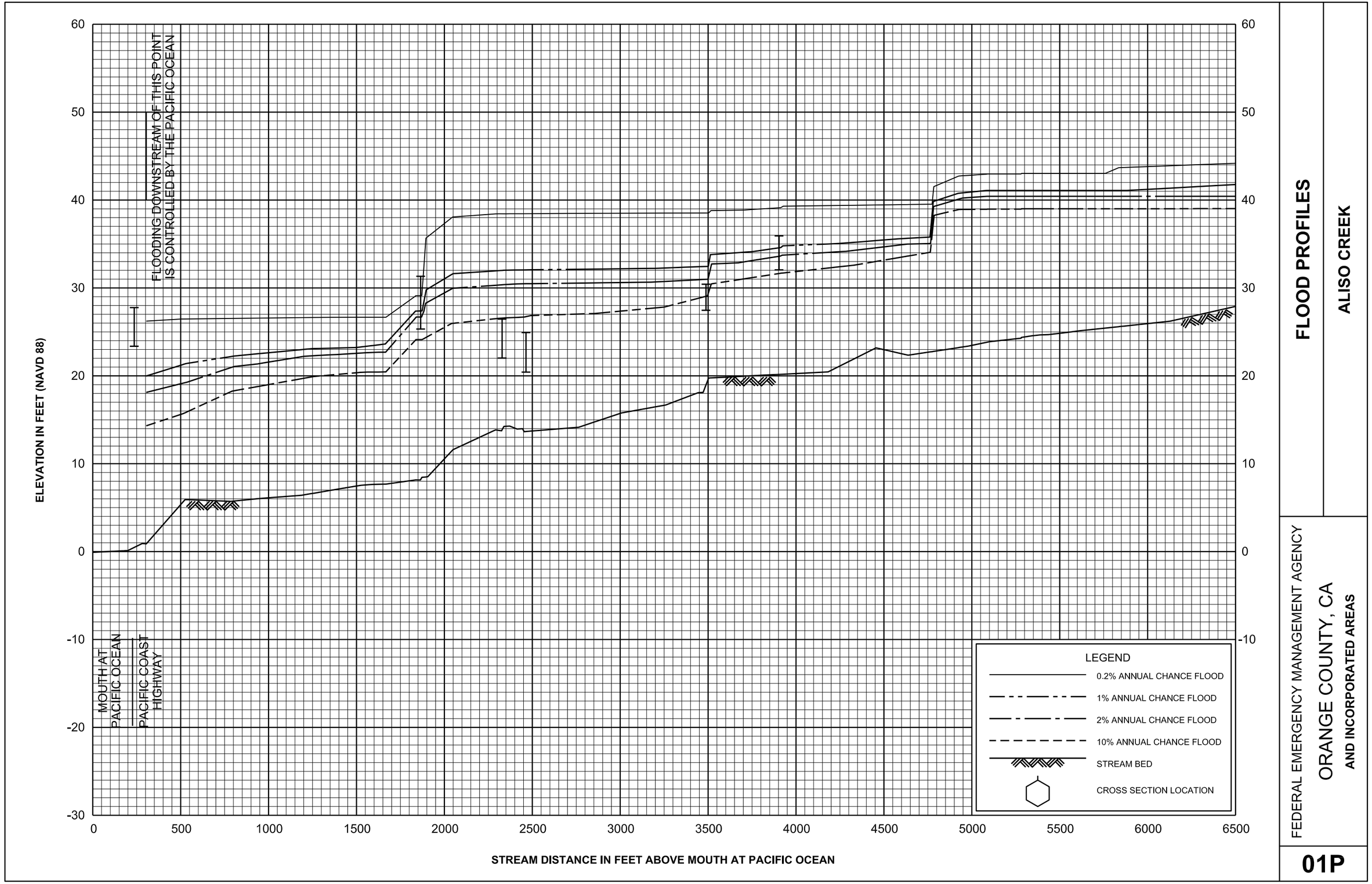
Niguel Canyon (Emerald Bay Channel) 95 P
Niguel Storm Drain (J03P01) 96 P
(North Sulphur Creek) Narco Channel (J04) 97 P

Volume 3
Exhibits

Flood Profiles	Panel
Oso Creek	98-104 P
Peters Canyon Wash	105-107 P
Salt Creek	108-110 P
San Diego Creek	111-114 P
San Juan Canyon	115 P
San Juan Creek	116-119 P
Sand Canyon Wash	120-125 P
Santa Ana River	126-129 P
Santa Ana-Santa Fe Channel	130 P
Santiago Creek	131-139 P
Santiago Creek (Upper)	140-146 P
Segunda Deshecha Canada	147-150 P
Segunda Deshecha Canada Tributary	151 P
Serrano Creek	152-158 P
Shady Canyon Wash	159 P
Silverado Canyon	160-177 P
Sulphur Creek	178-179 P
Talbert Channel (D02)	180-182 P
Trabuco Creek	183-195 P
Veeh Creek (San Diego Creek Tributary 2)	196 P
Veeh Creek Tributary 1 (San Diego Creek Tributary 1)	197 P

Published Separately

Flood Insurance Rate Map (FIRM)



FLOOD PROFILES

ALISO CREEK

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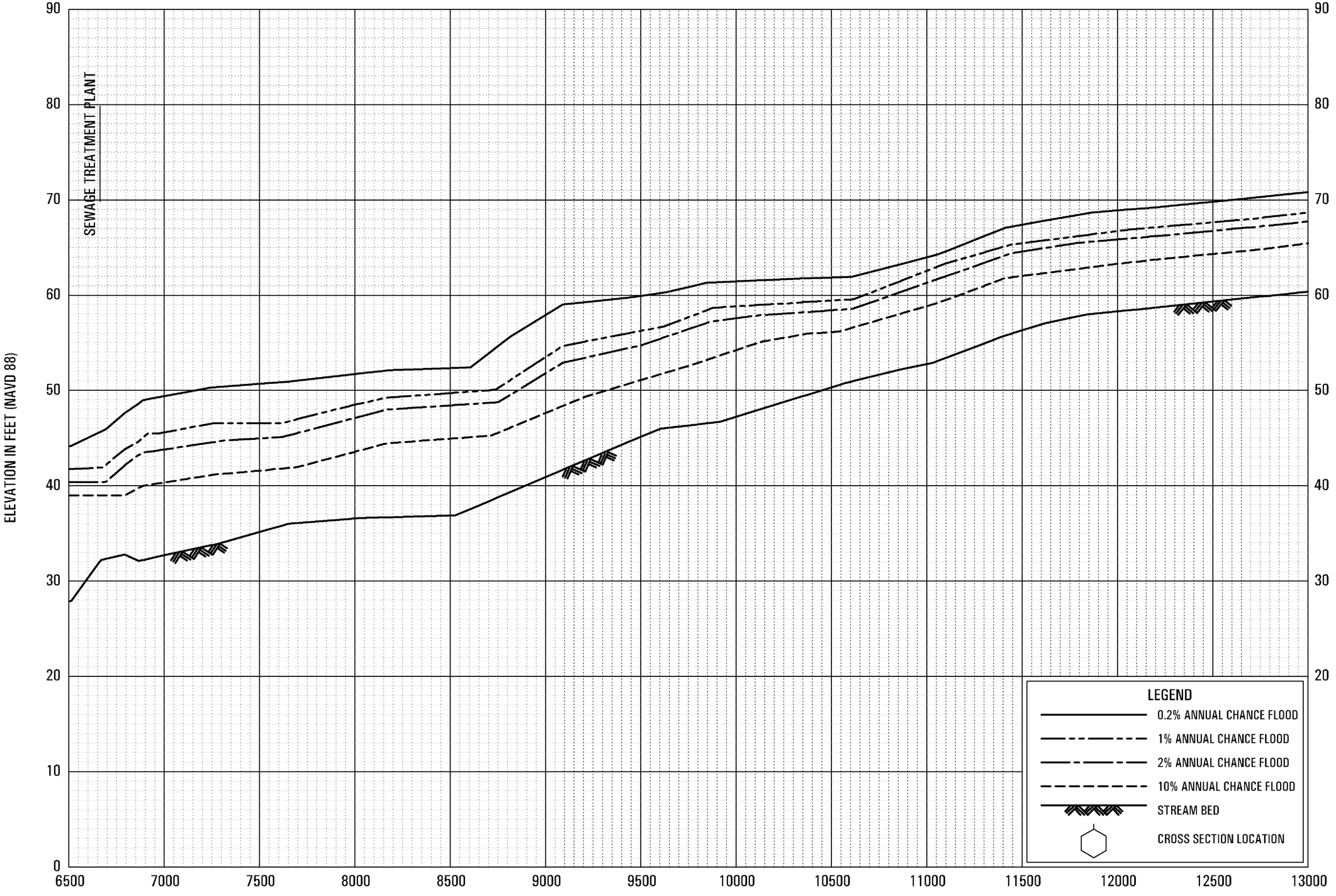
01P



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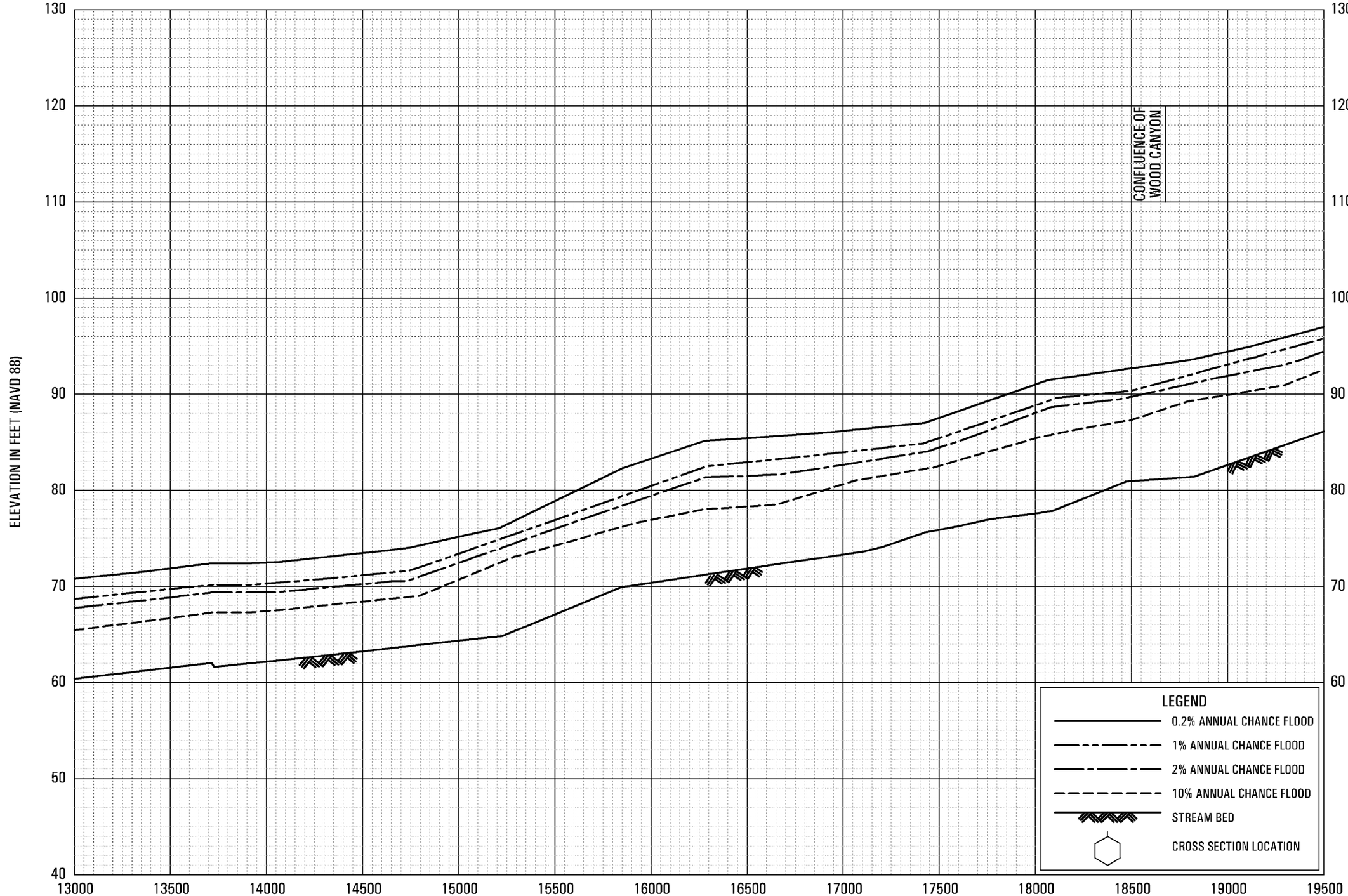

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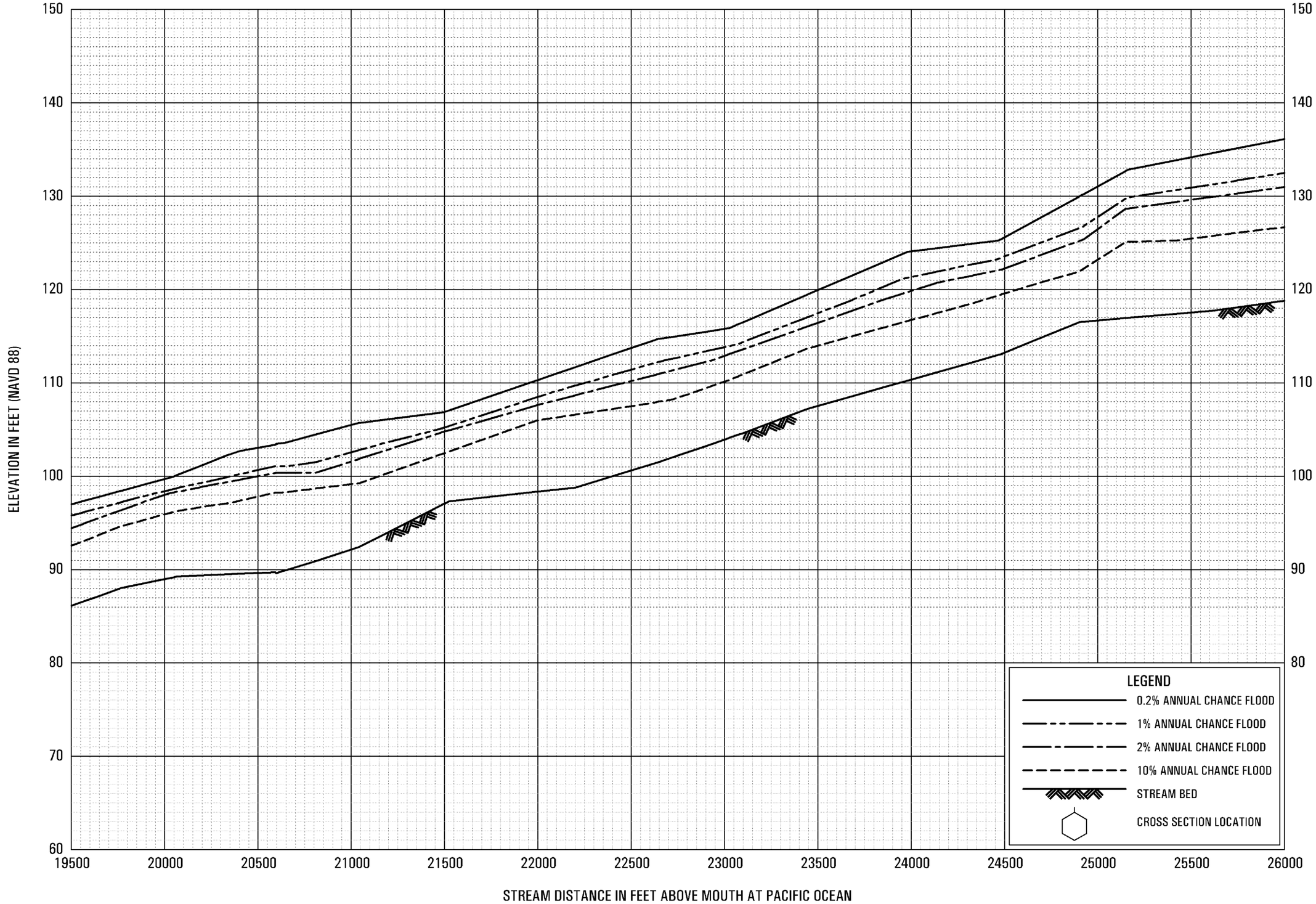

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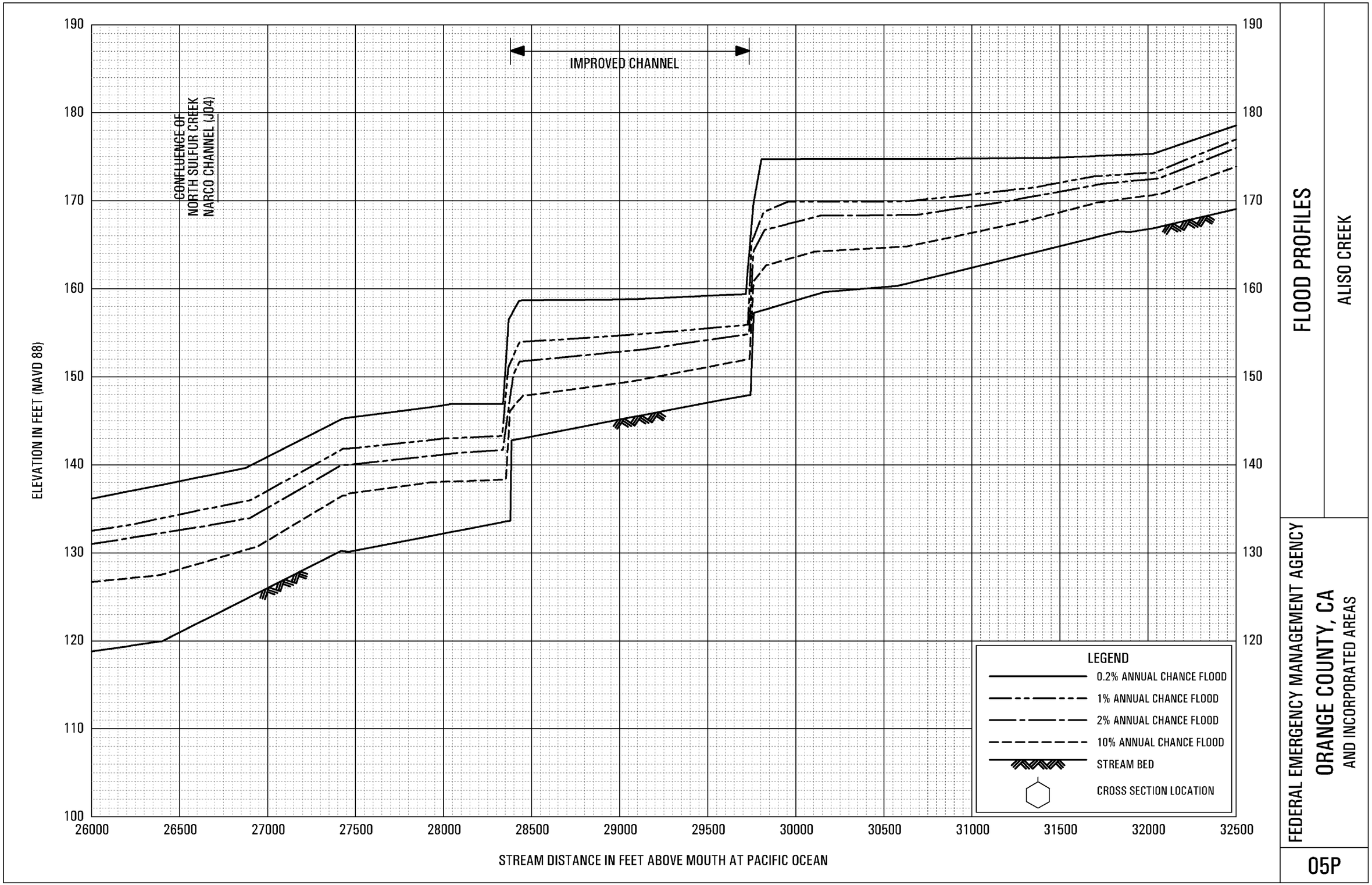

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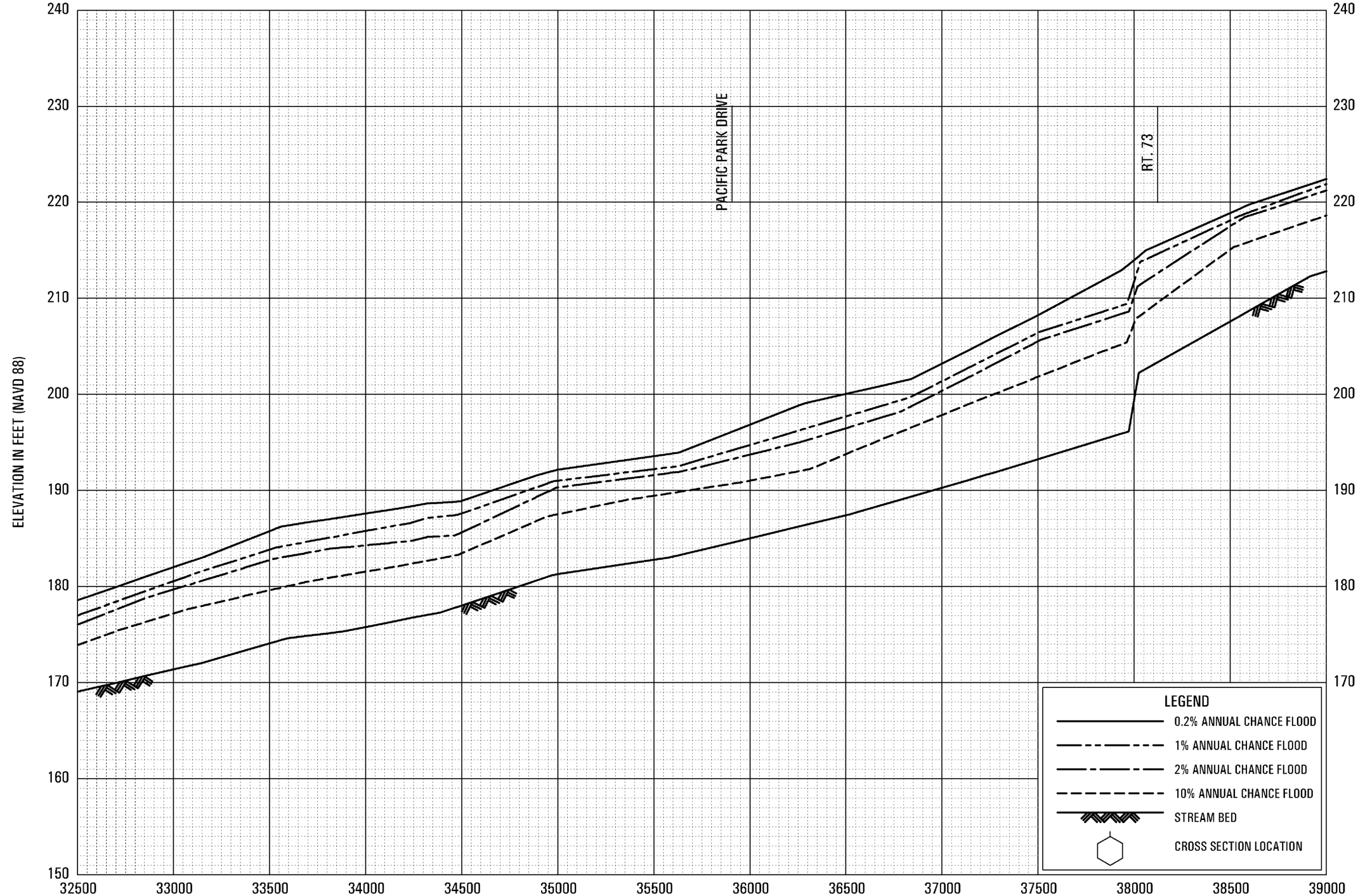

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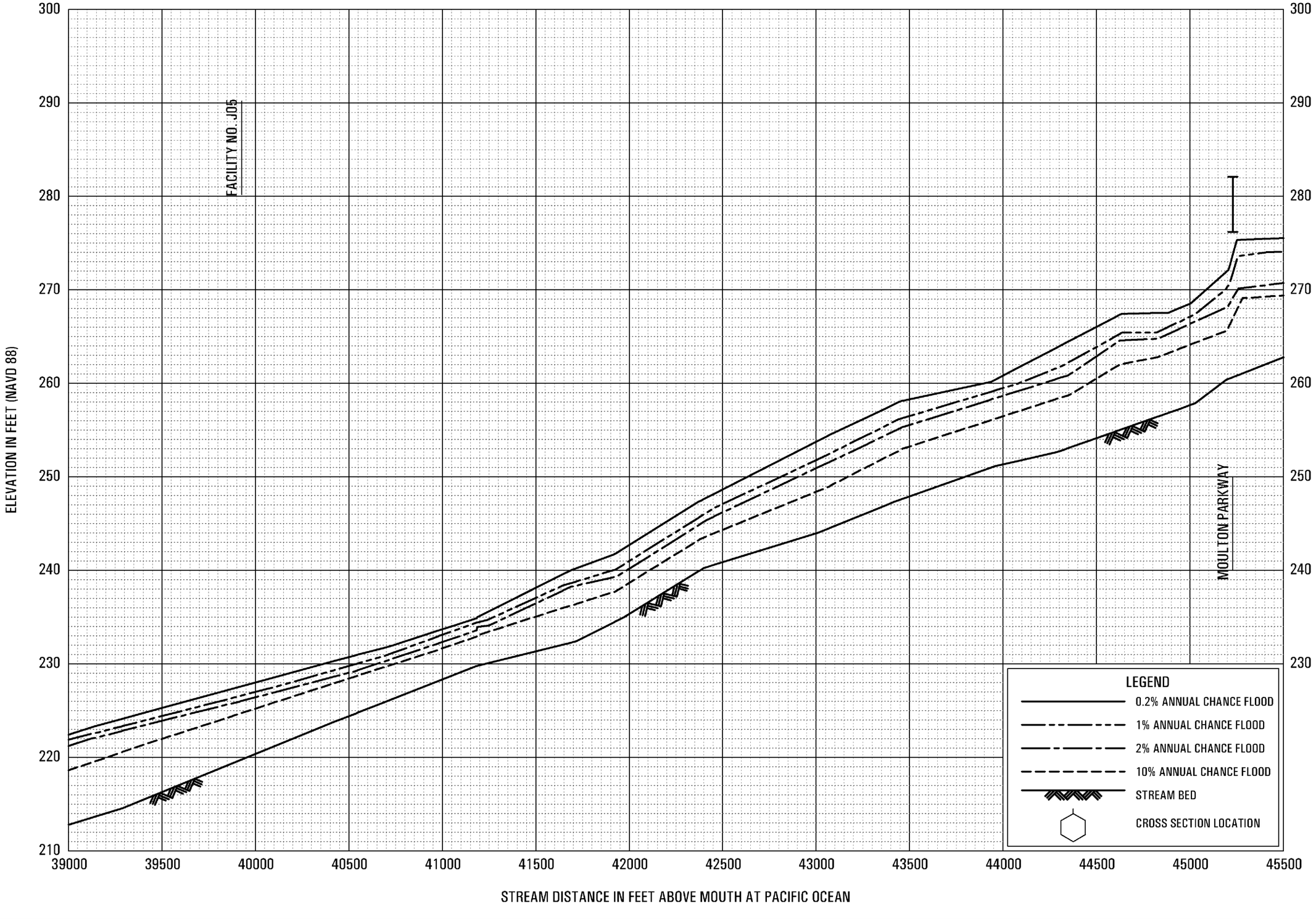

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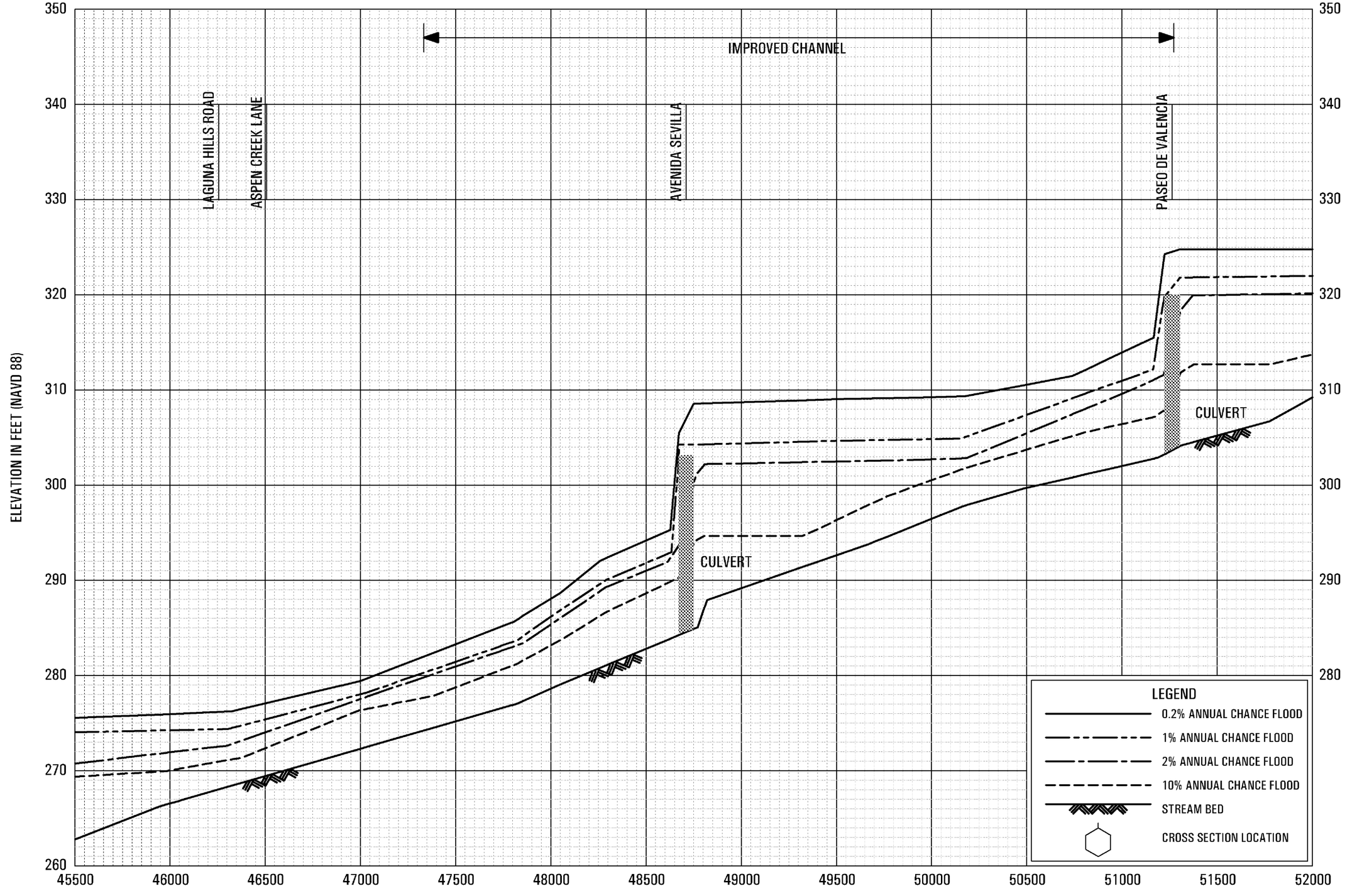

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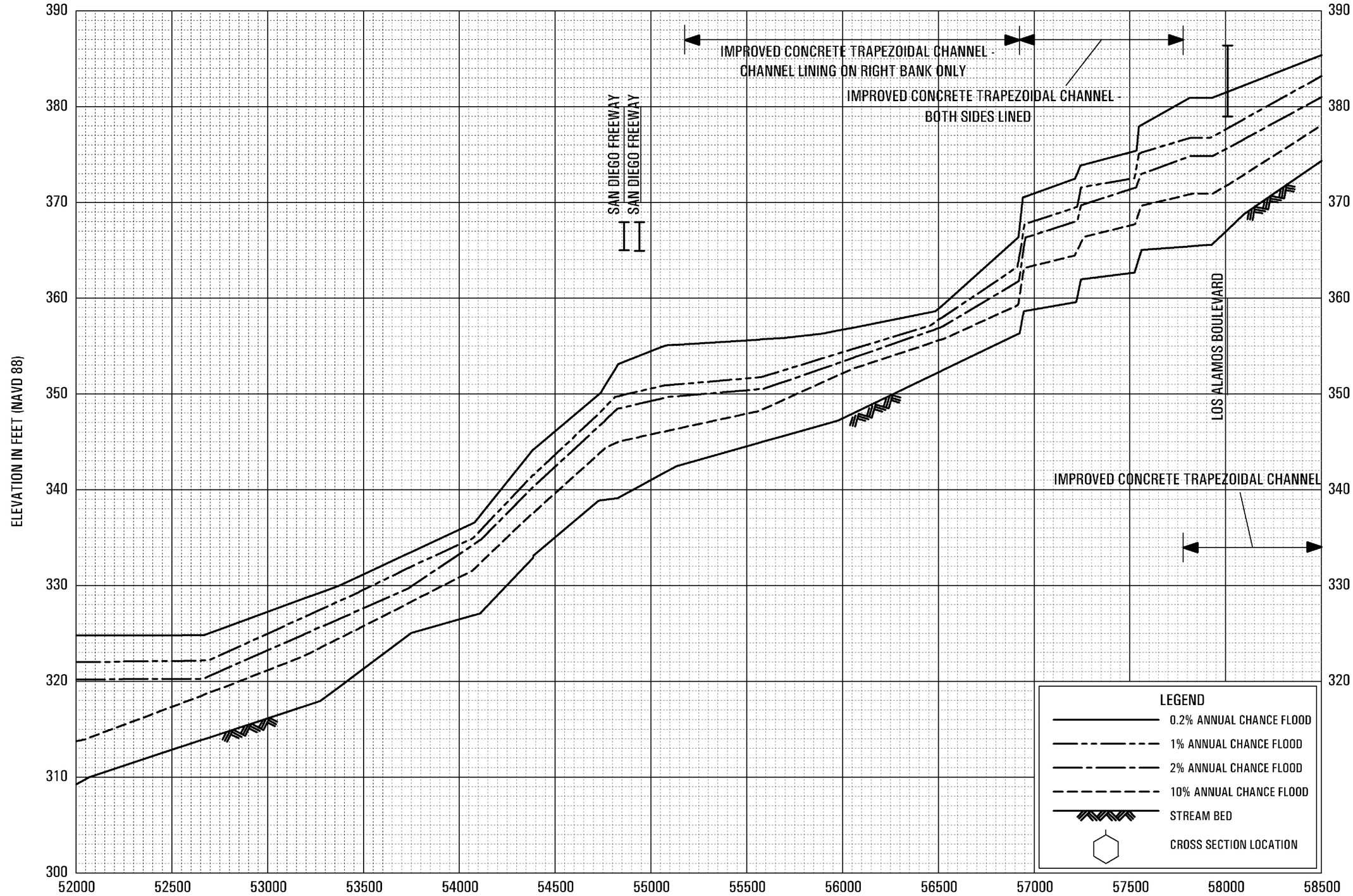

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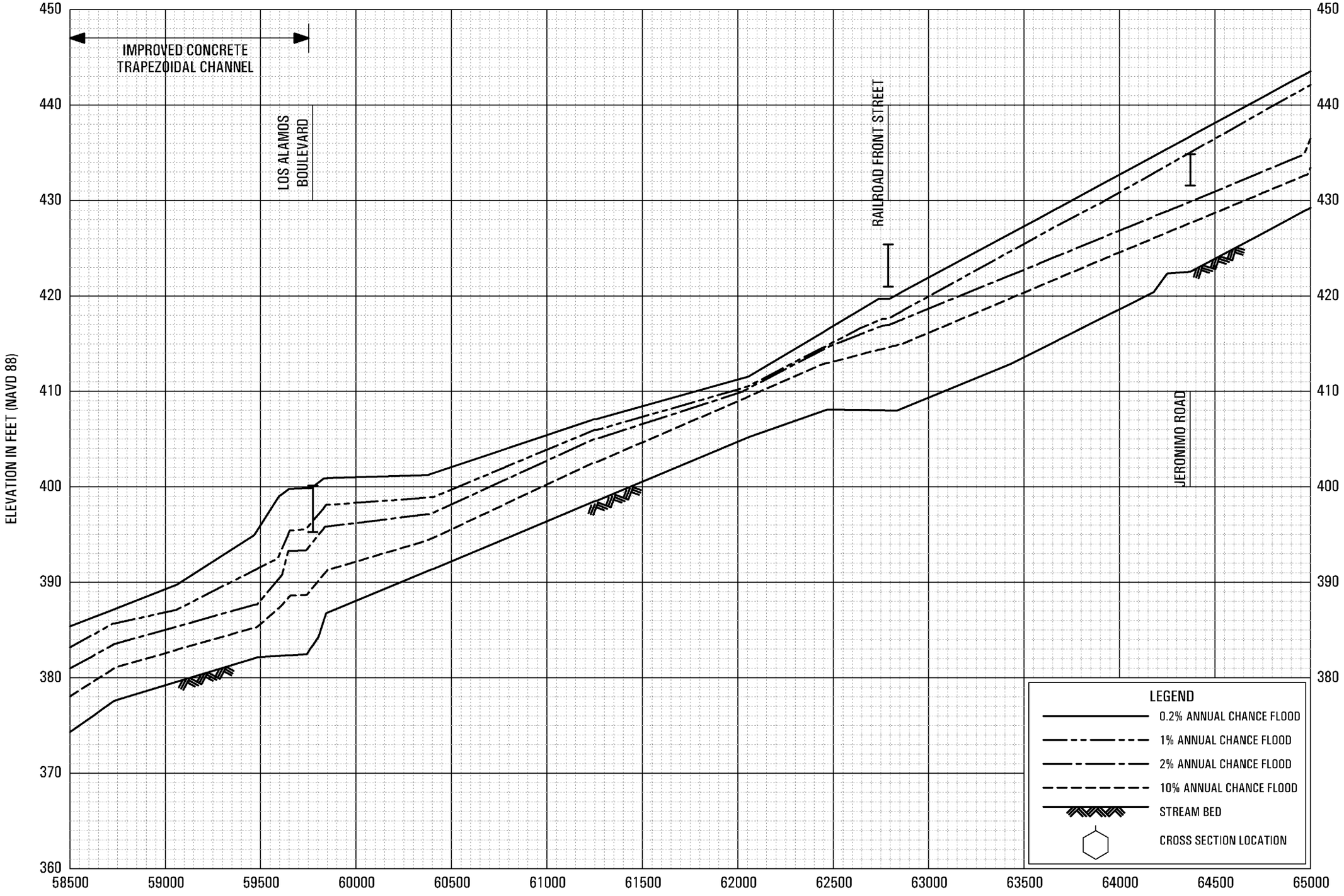

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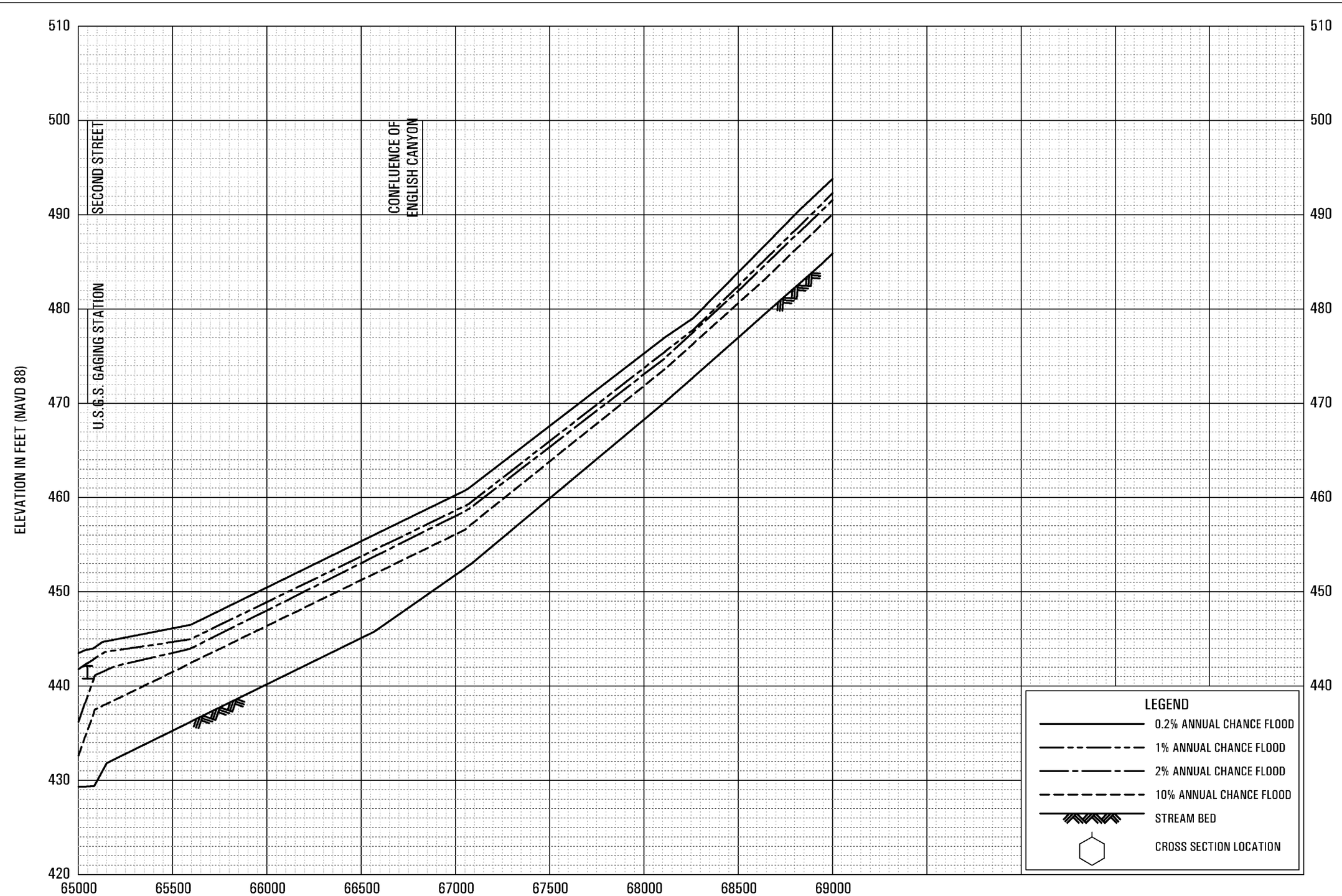

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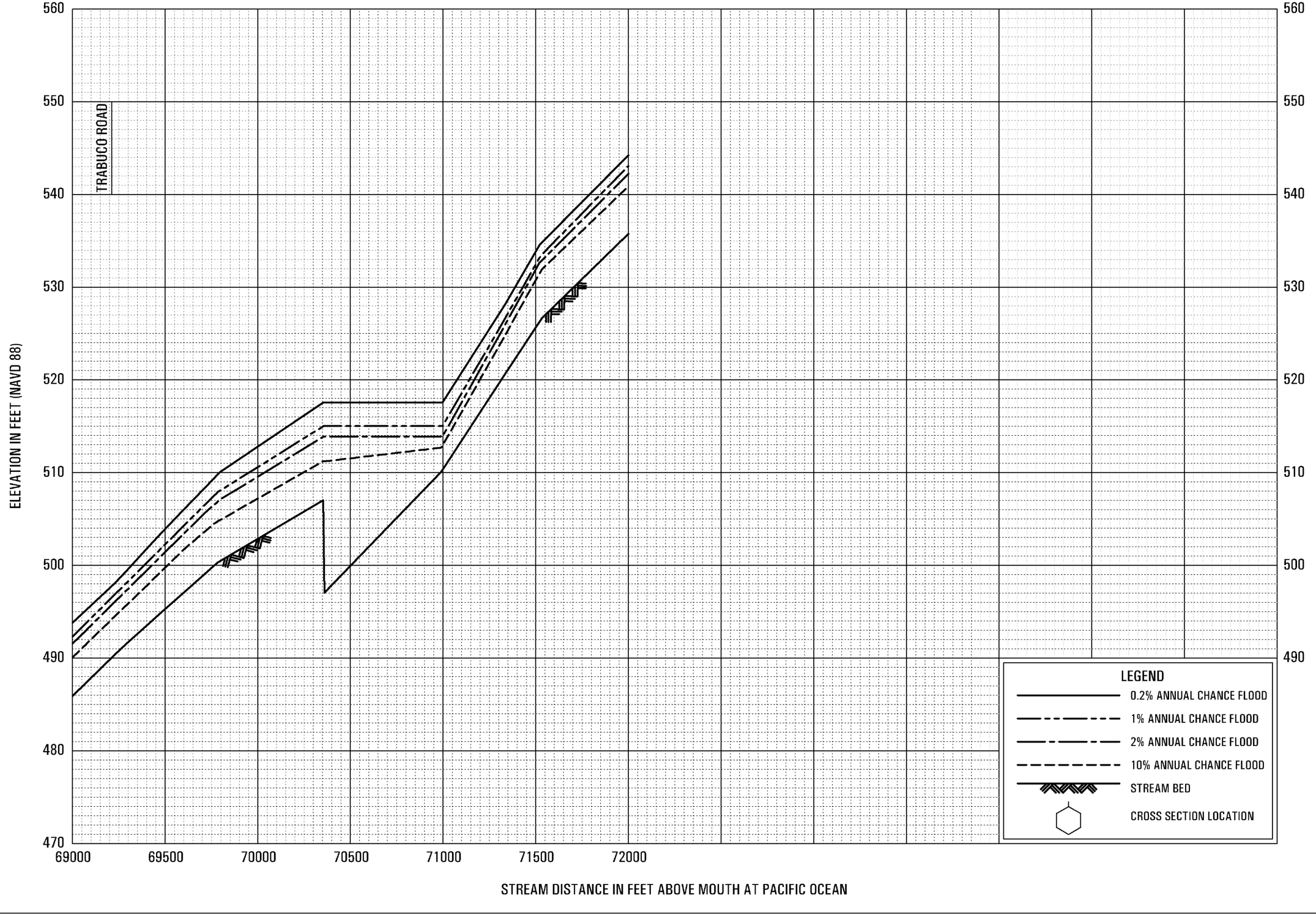

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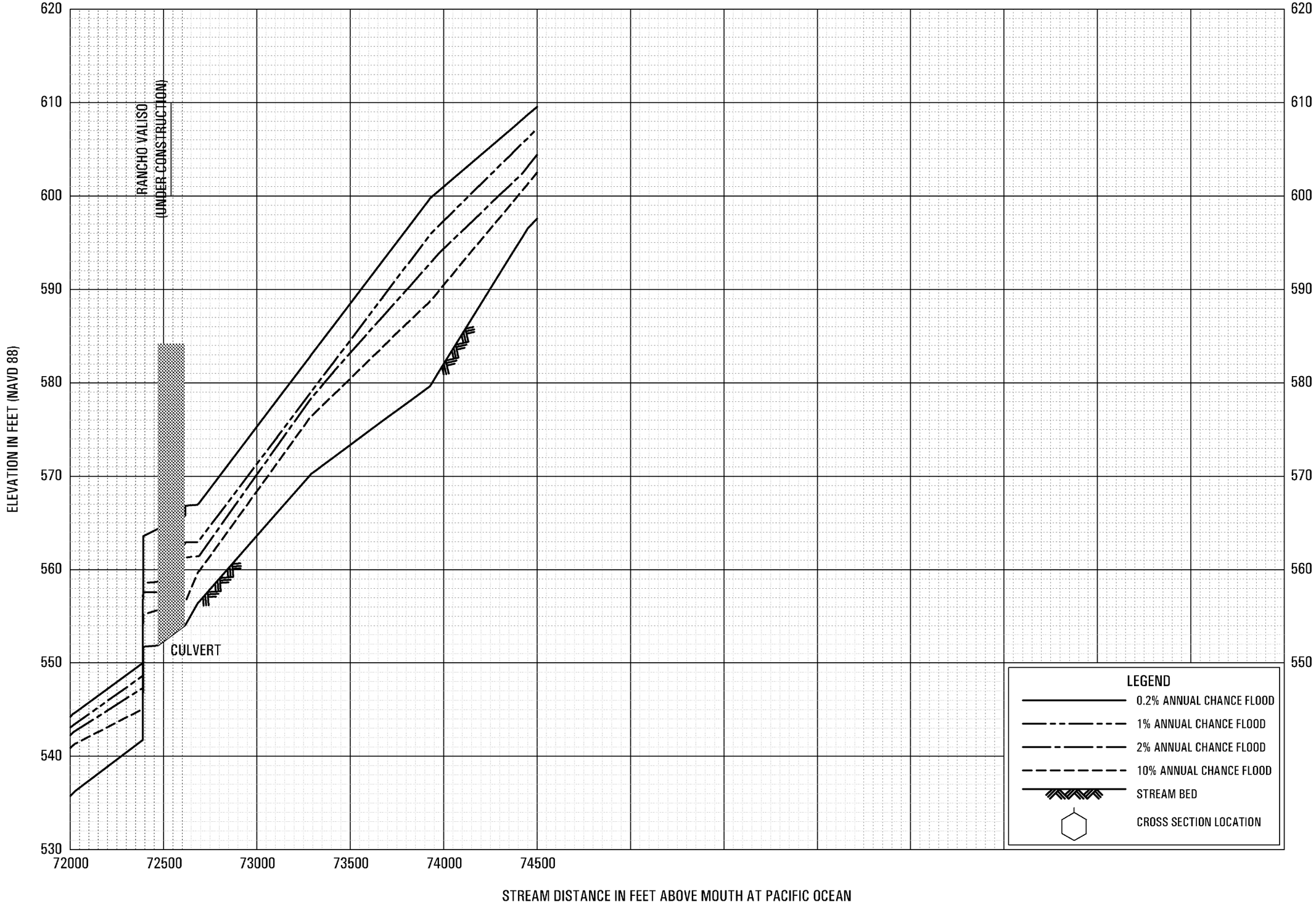

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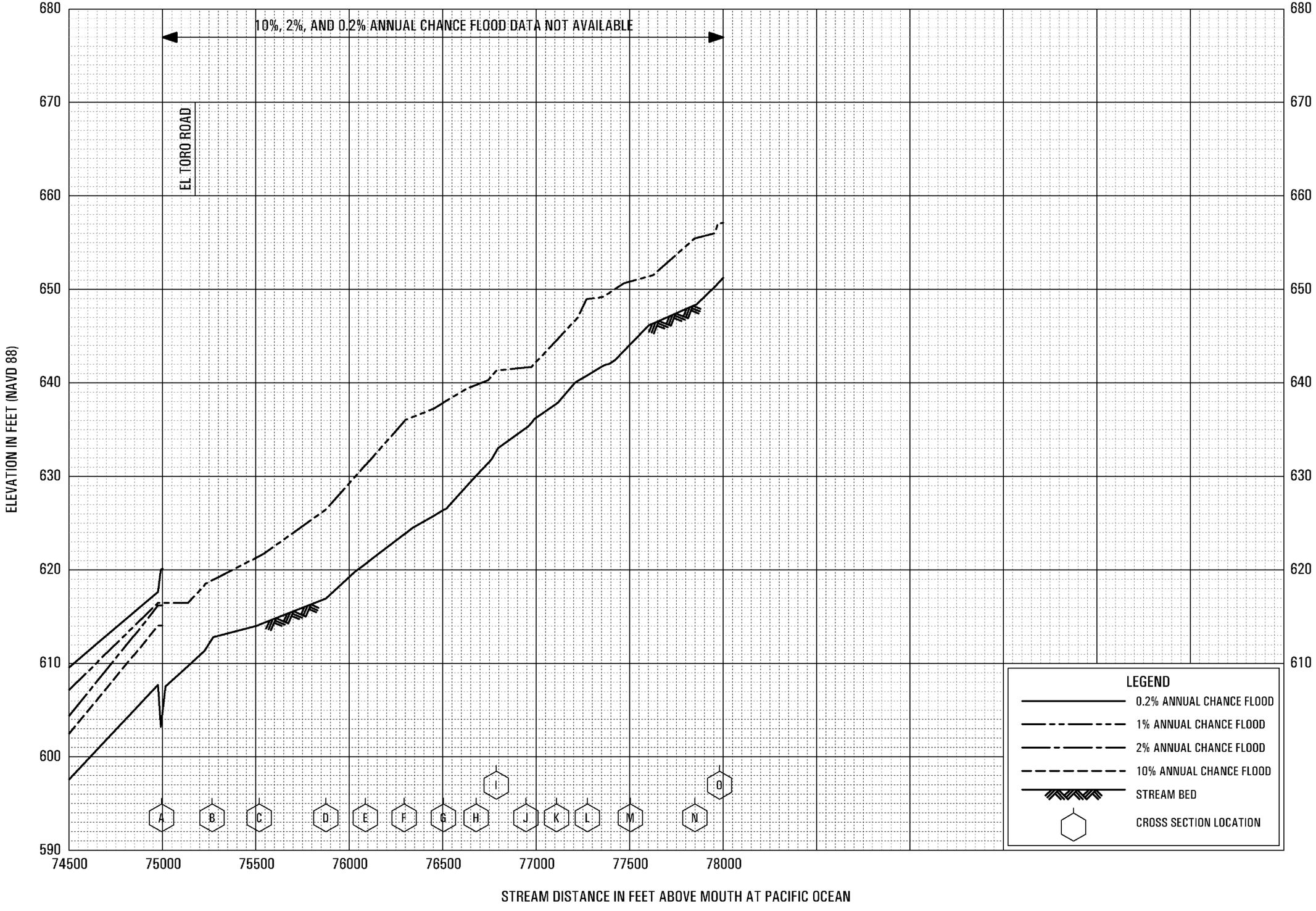

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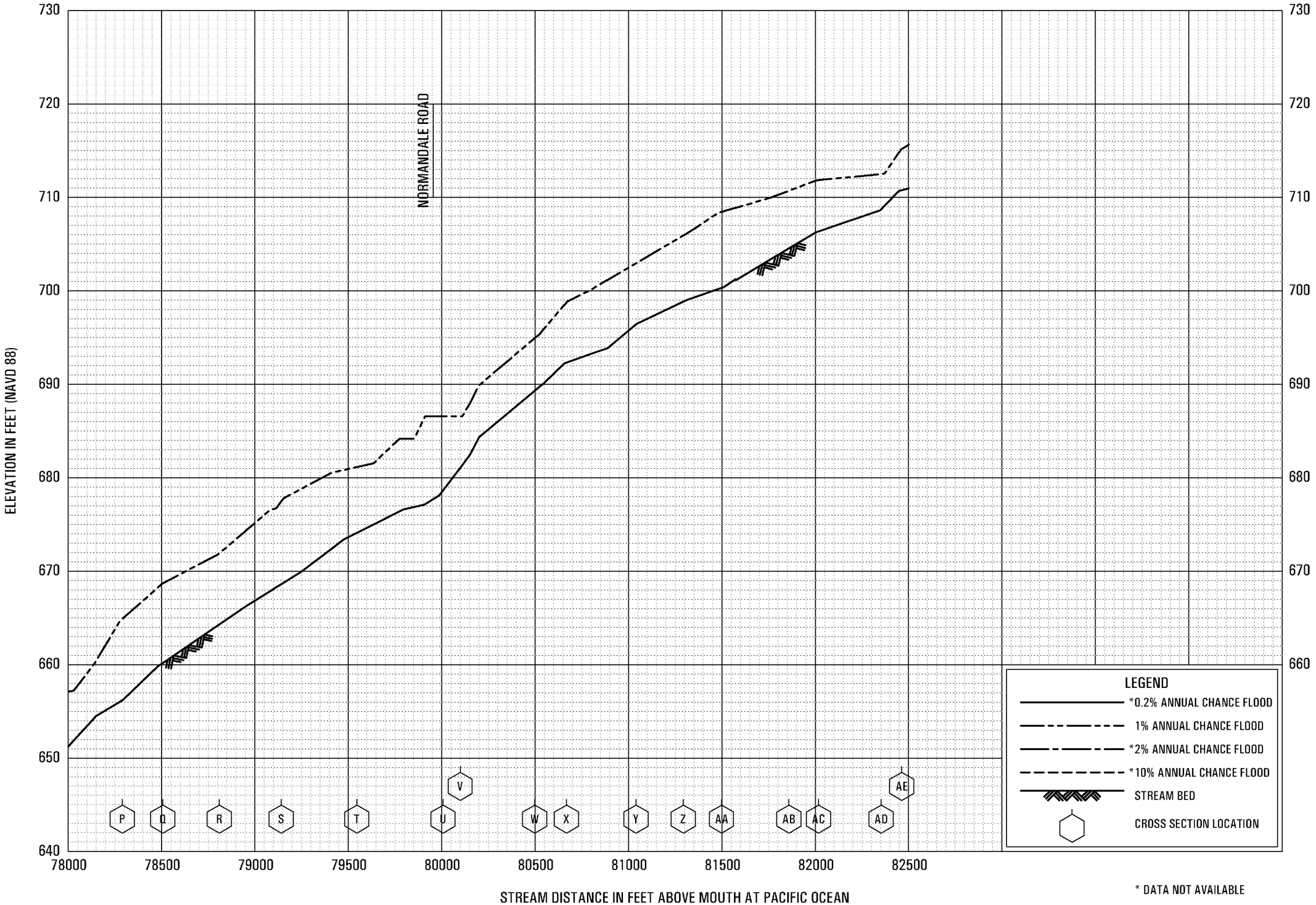

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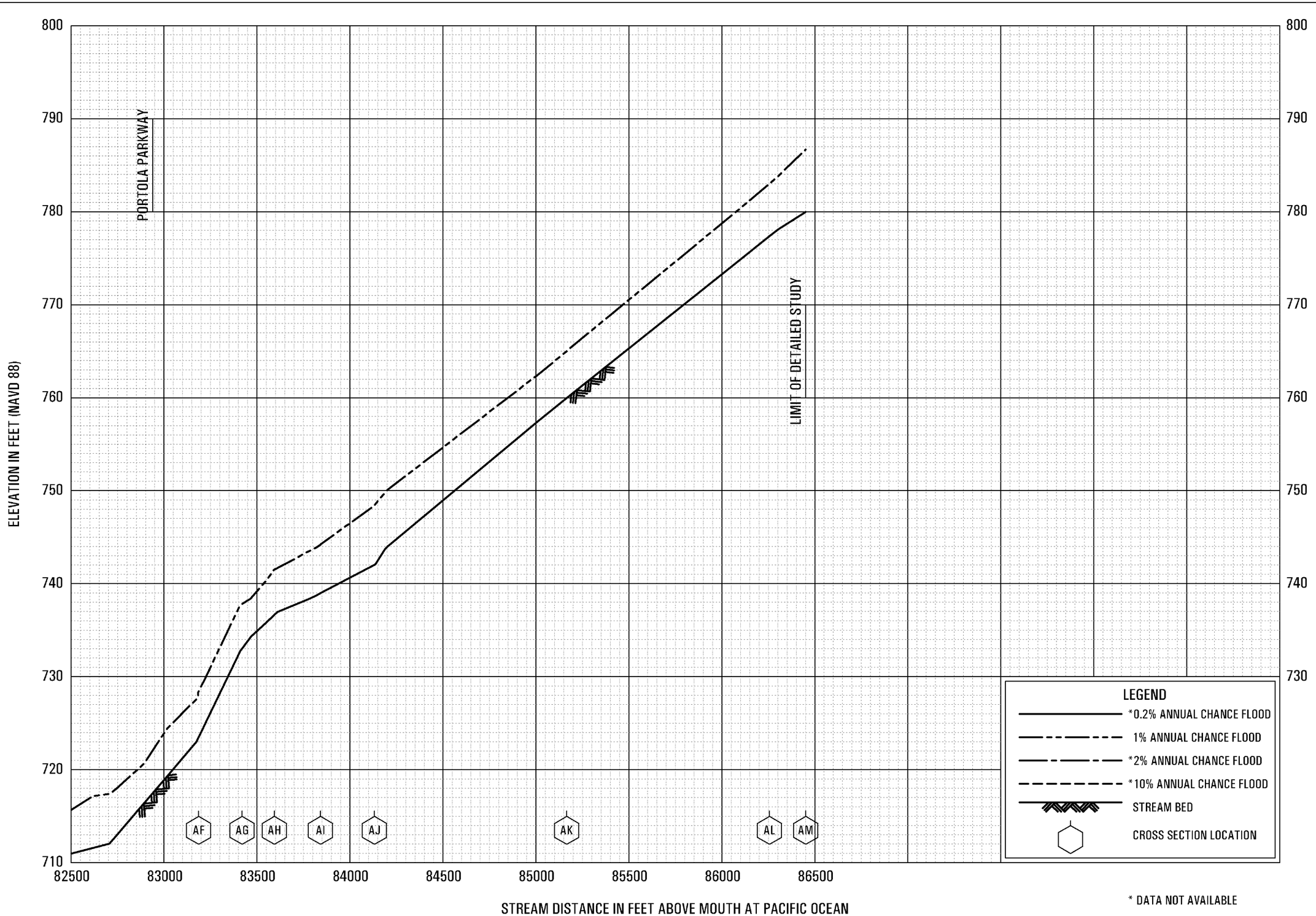

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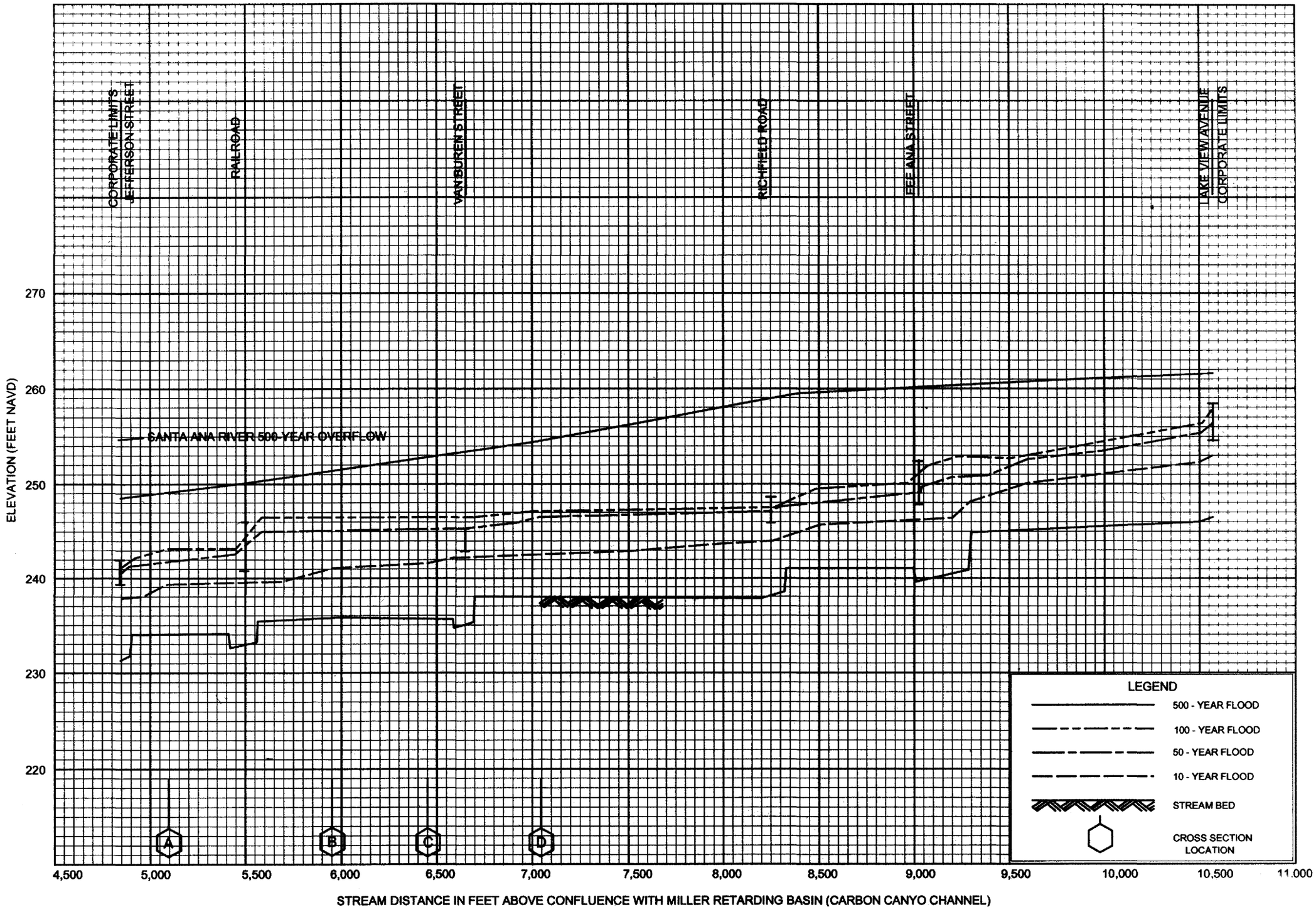

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ATWOOD CHANNEL

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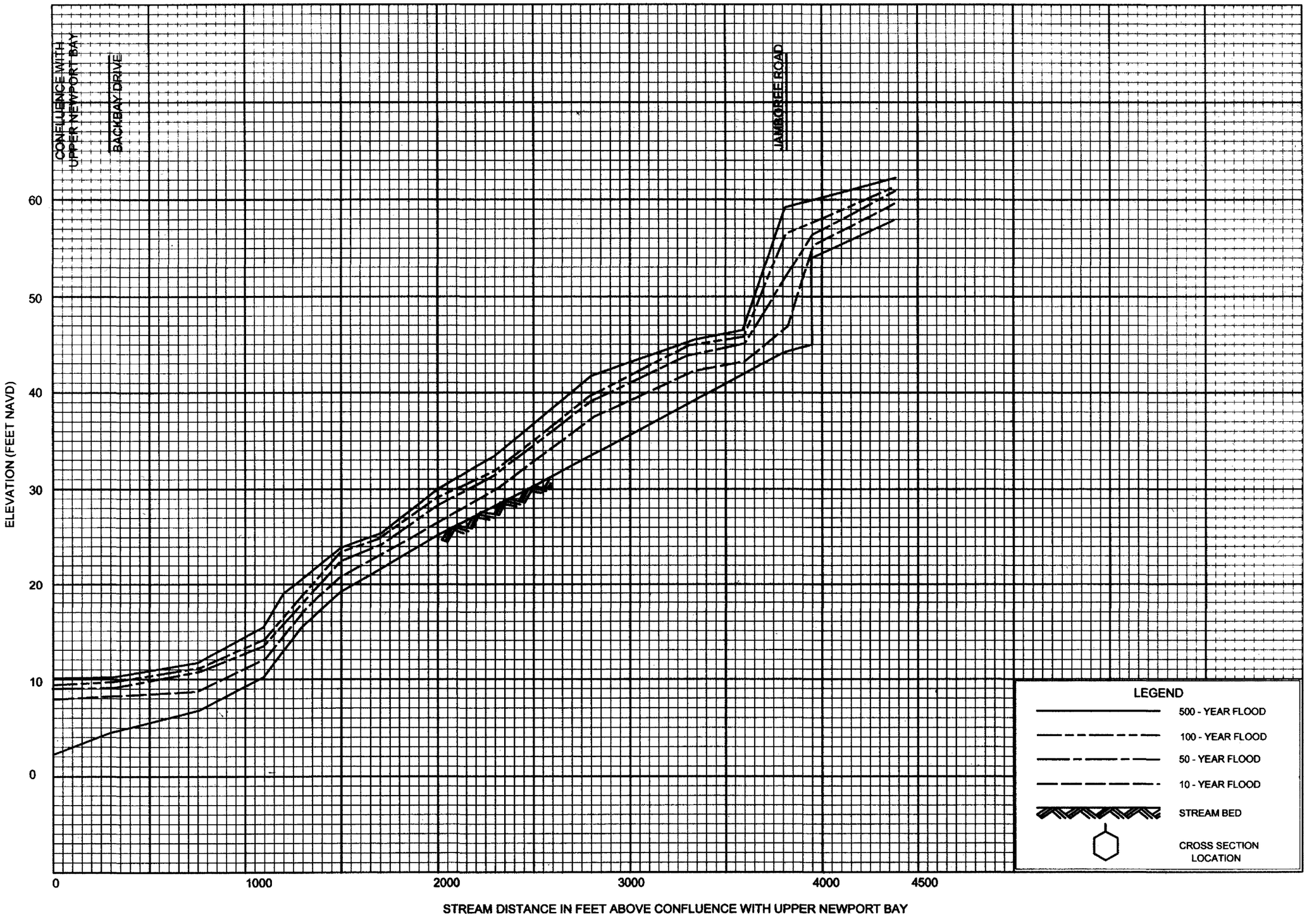

FLOOD PROFILES

BIG CANYON

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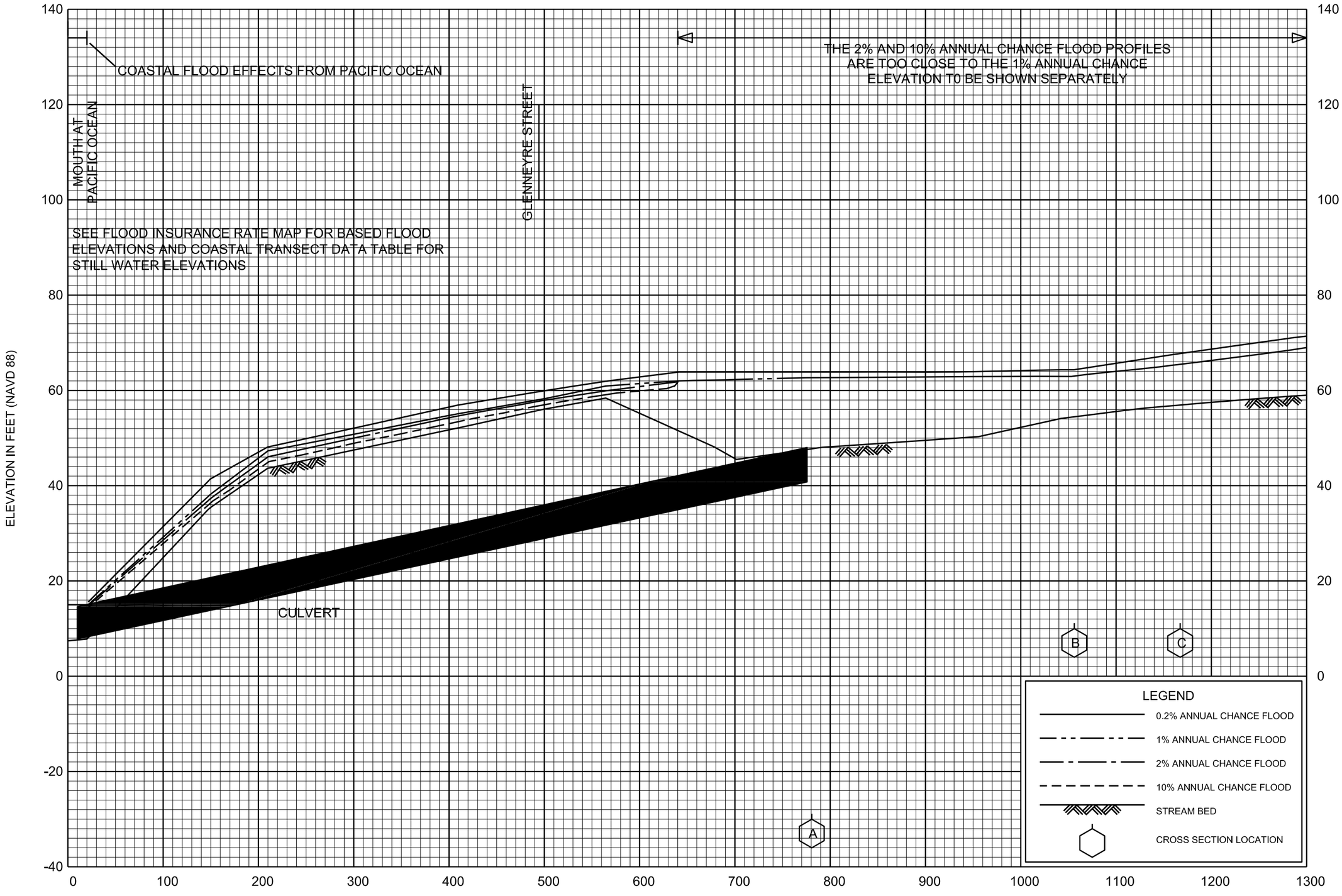

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BLUEBIRD CANYON

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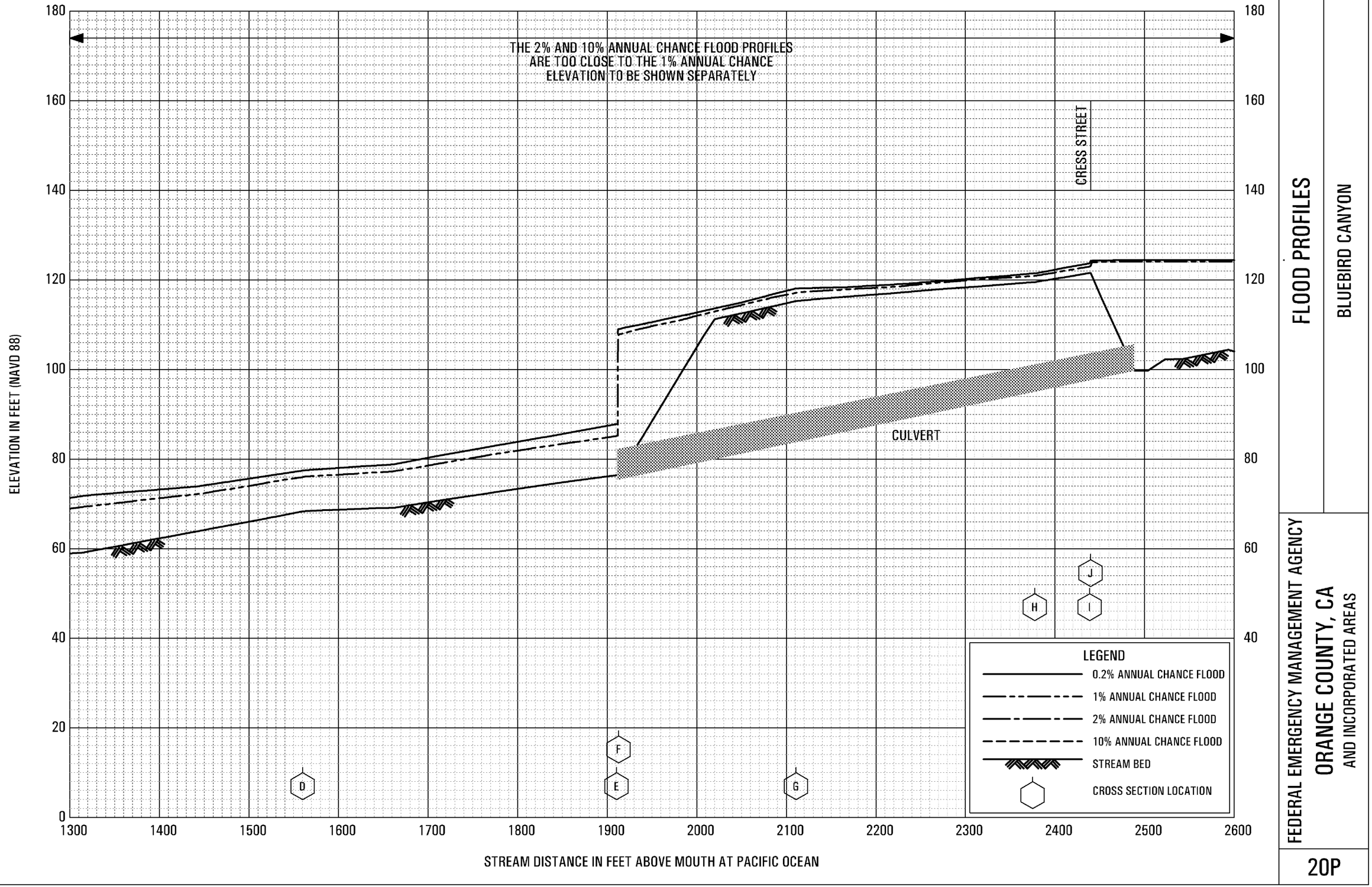

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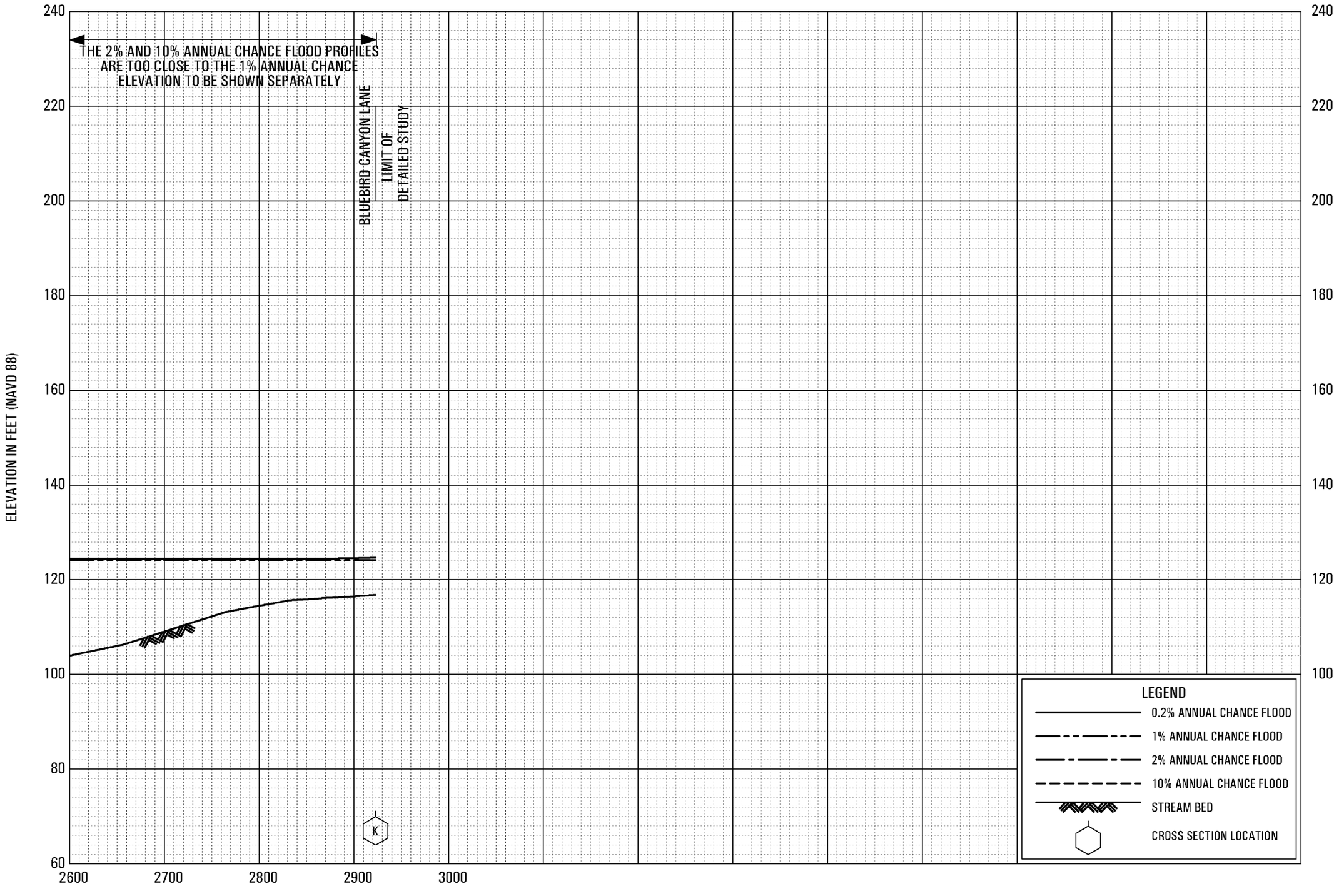

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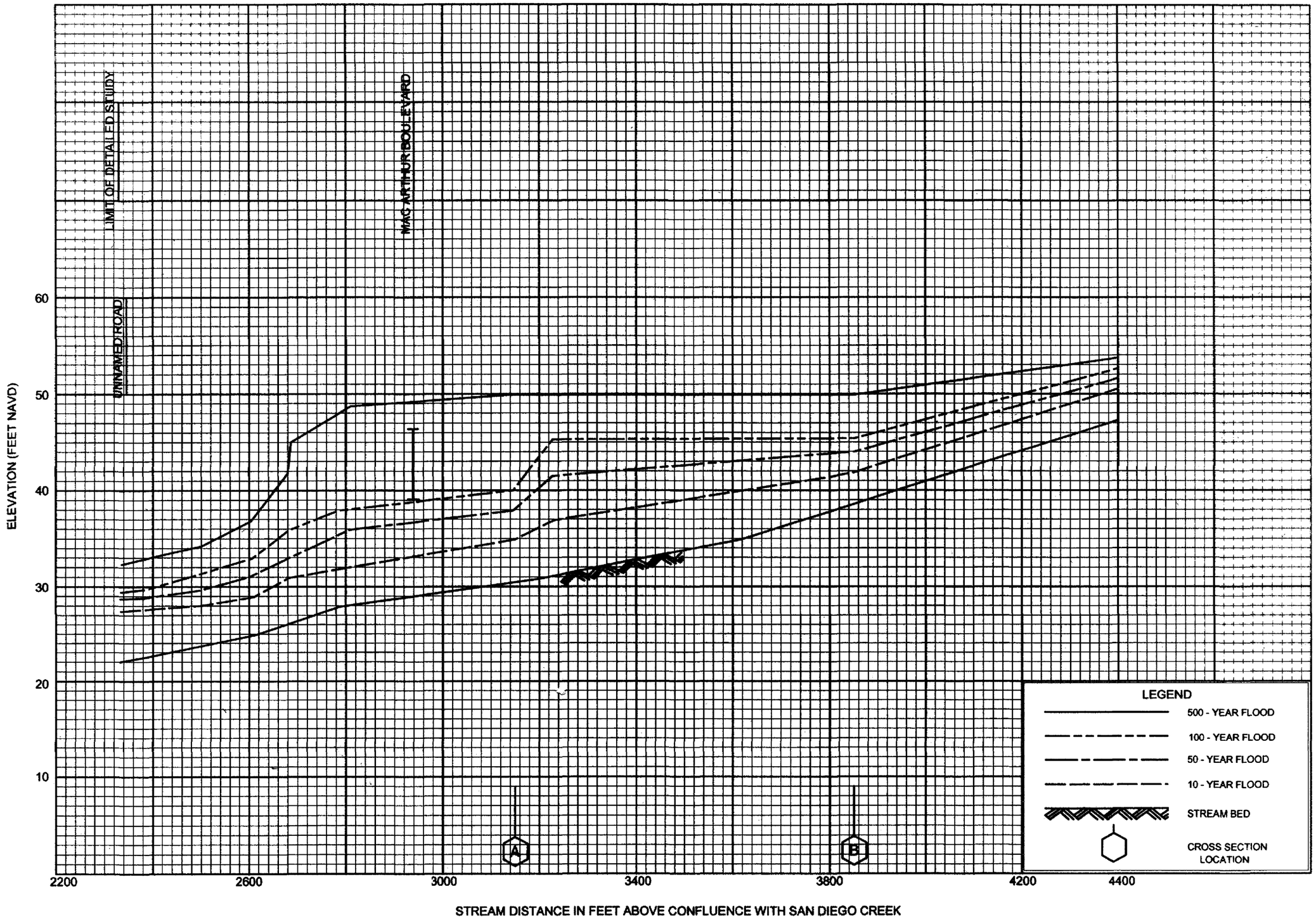

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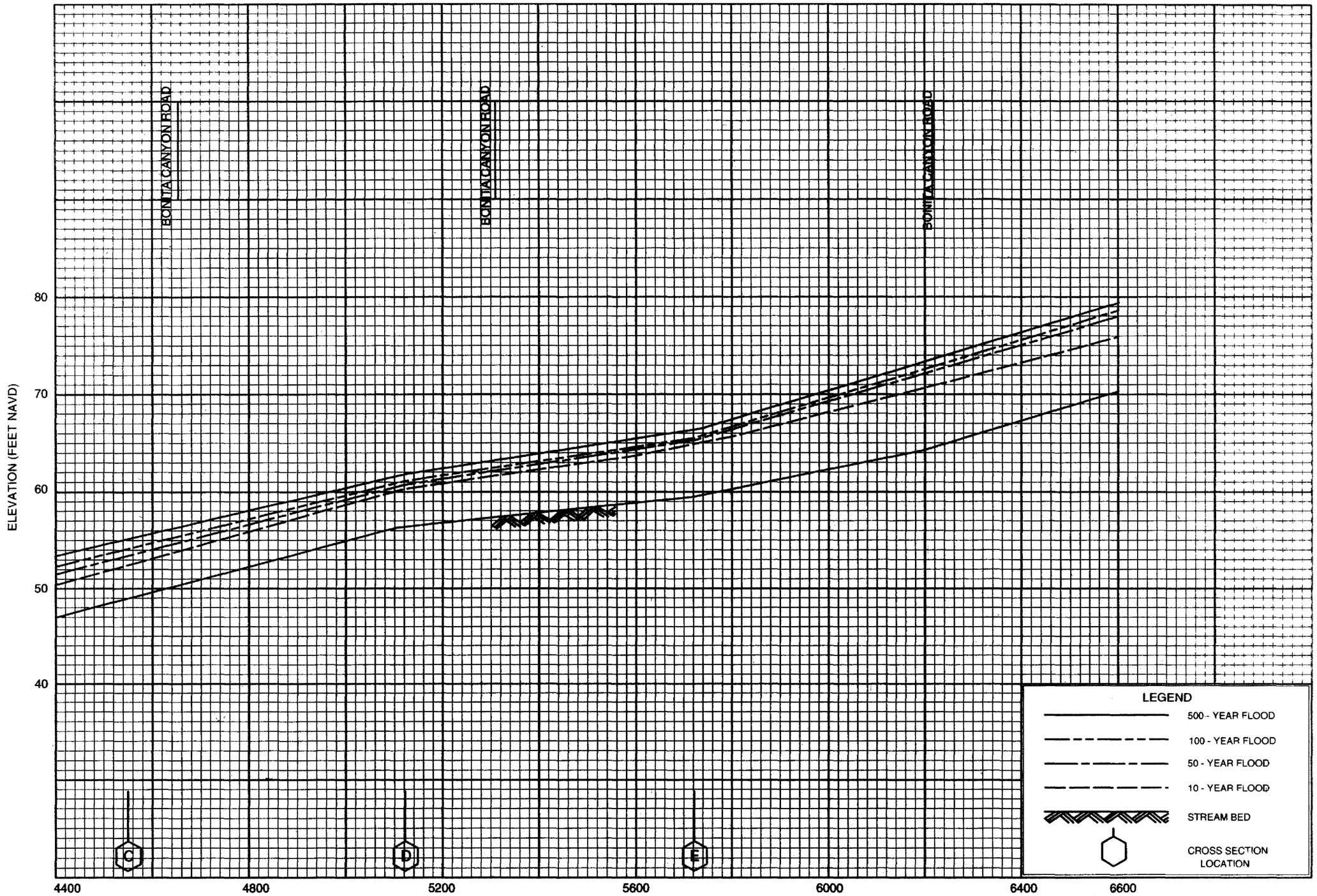

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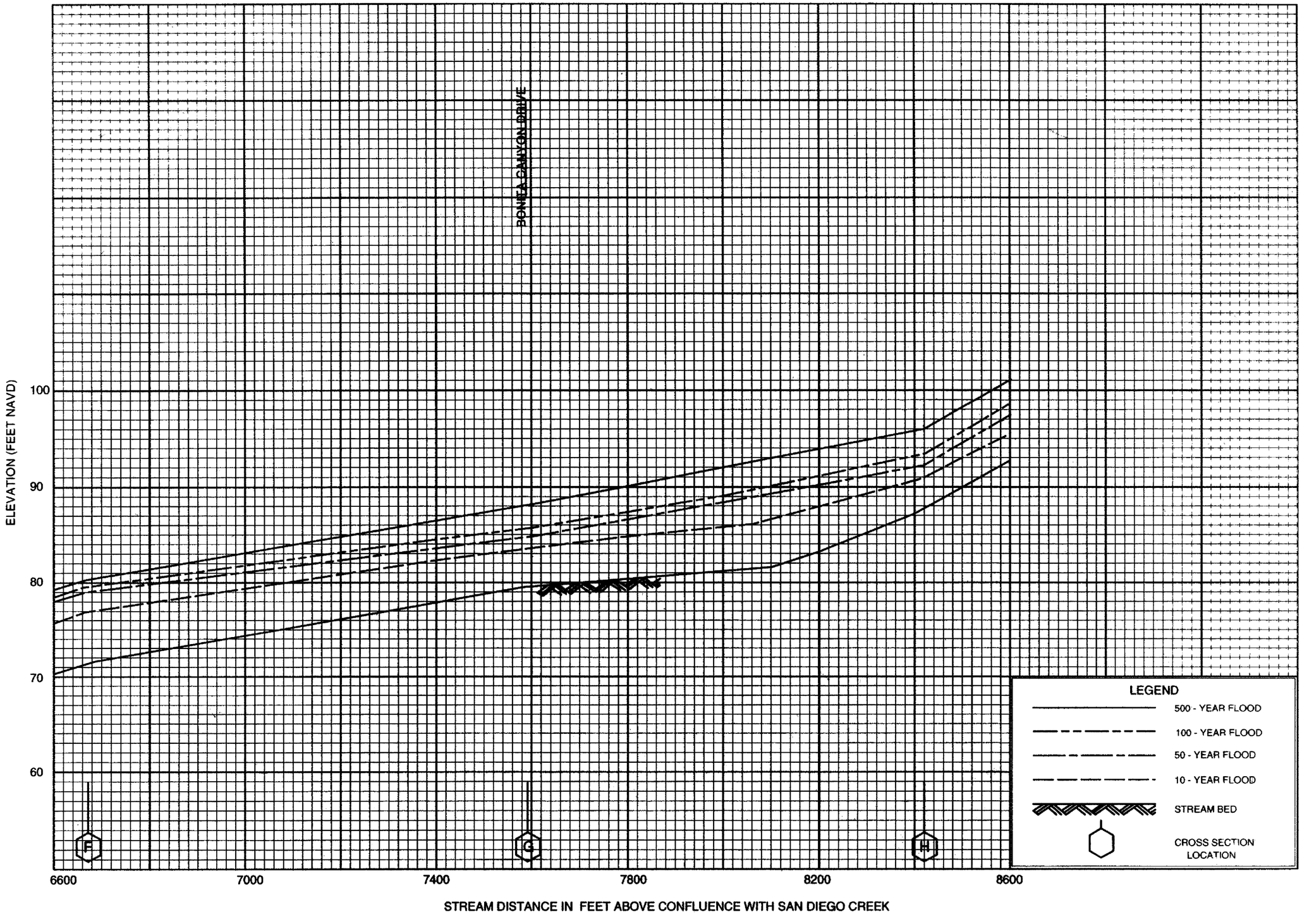

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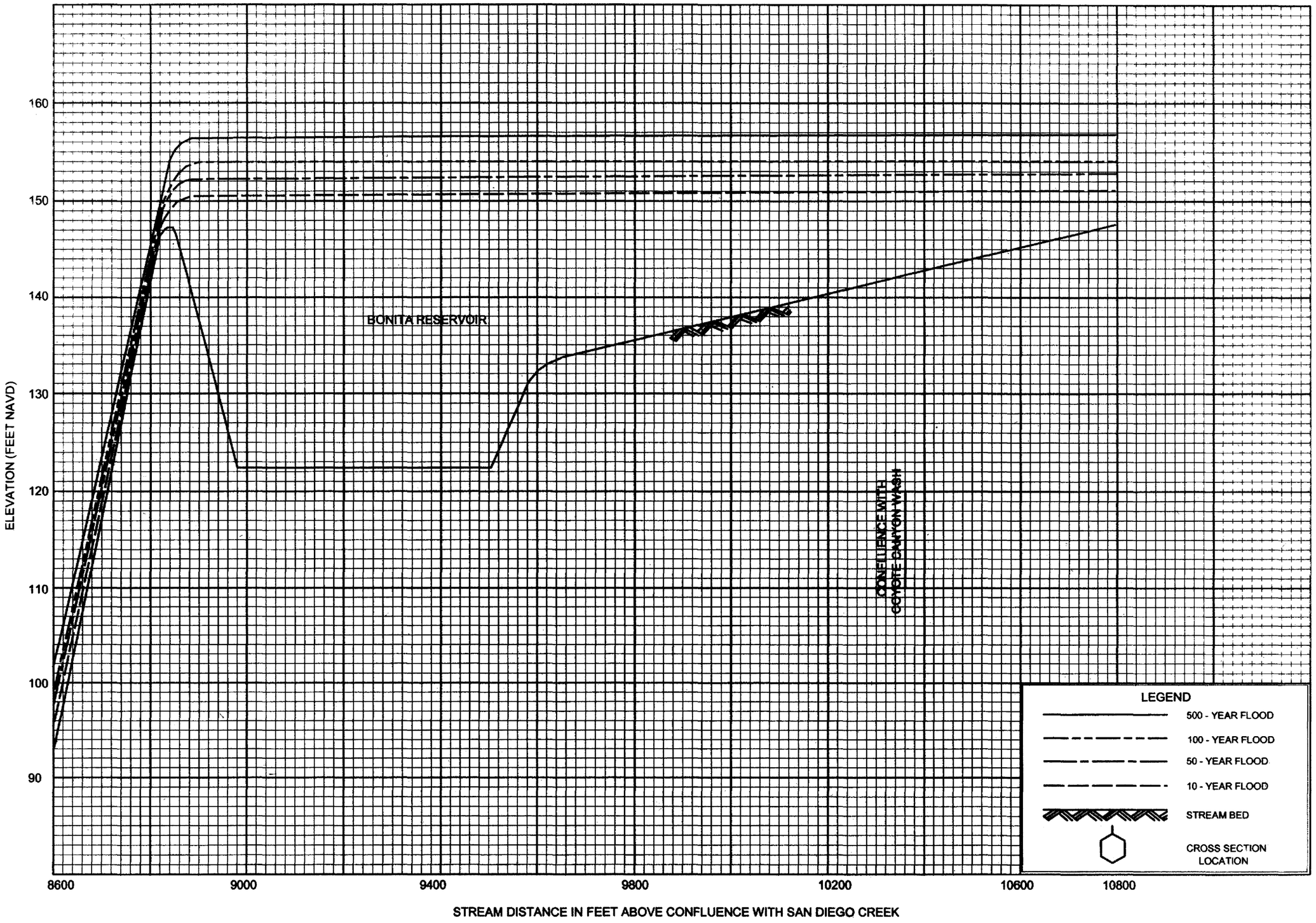

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BONITA CREEK

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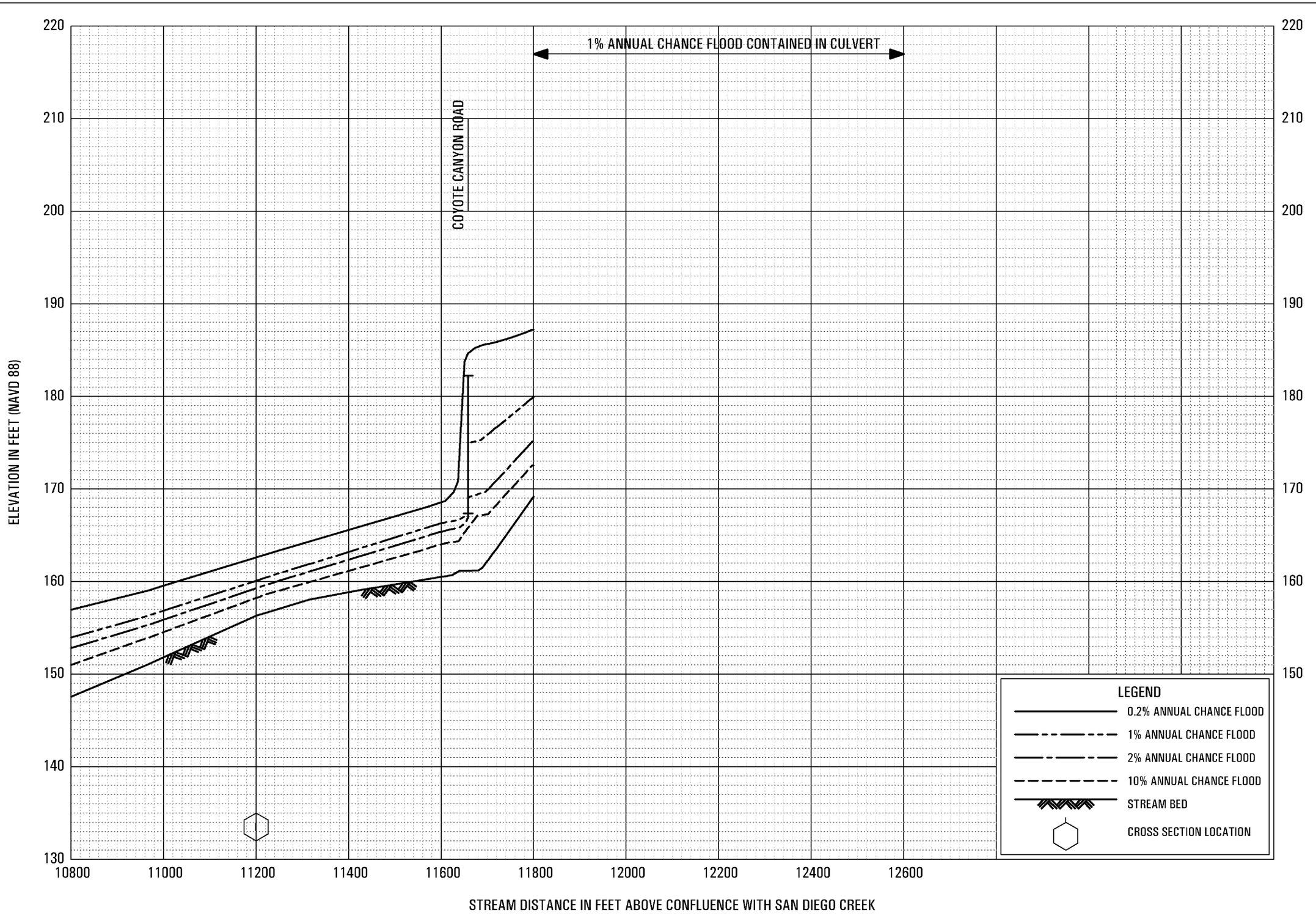

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BONITA CREEK

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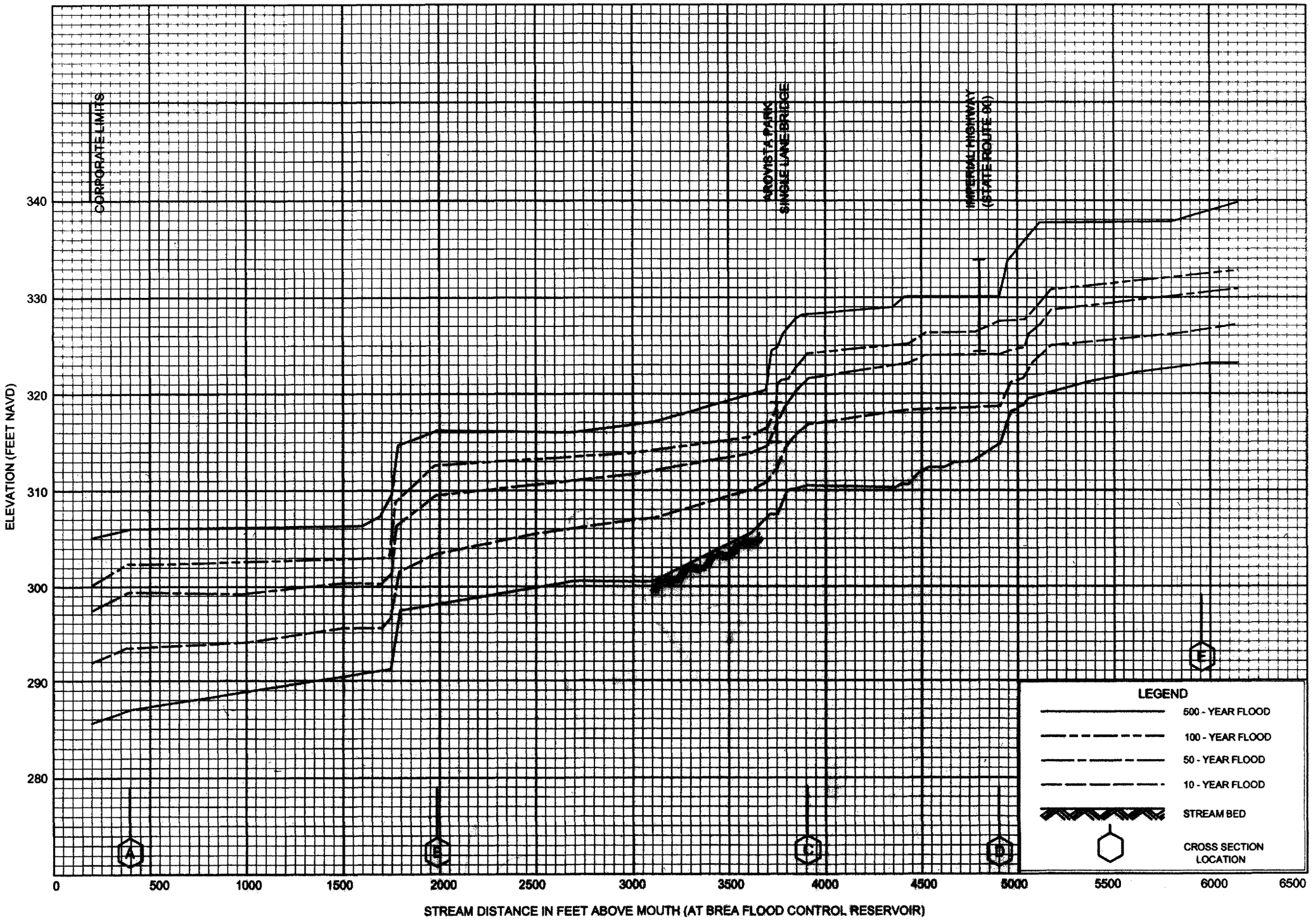

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BREA CANYON CHANNEL

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ORANGE COUNTY, CA
AND INCORPORATED AREAS

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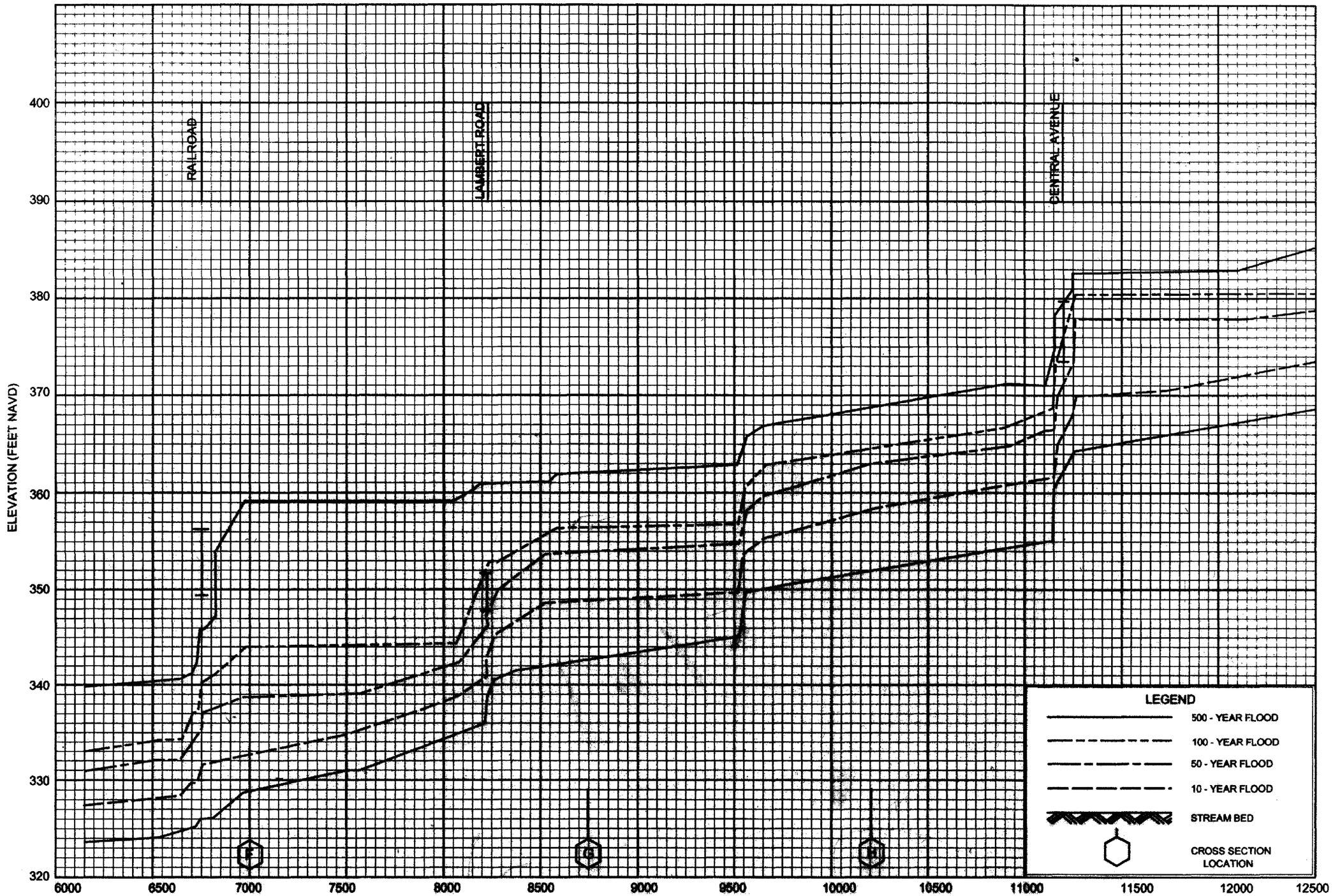

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BREA CANYON CHANNEL

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

28P

CORPORATE LIMITS
LIMIT OF DETAILED STUDY

ELEVATION (FEET NAVD)

390
380
370
360
350

12500
13000

STREAM DISTANCE IN FEET ABOVE MOUTH (AT BREA FLOOD-CONTROL RESERVOIR)

LEGEND

- 500 - YEAR FLOOD
- 100 - YEAR FLOOD
- 50 - YEAR FLOOD
- 10 - YEAR FLOOD
- STREAM BED
- CROSS SECTION LOCATION

FLOOD PROFILES

BREA CANYON CHANNEL

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ORANGE COUNTY, CA
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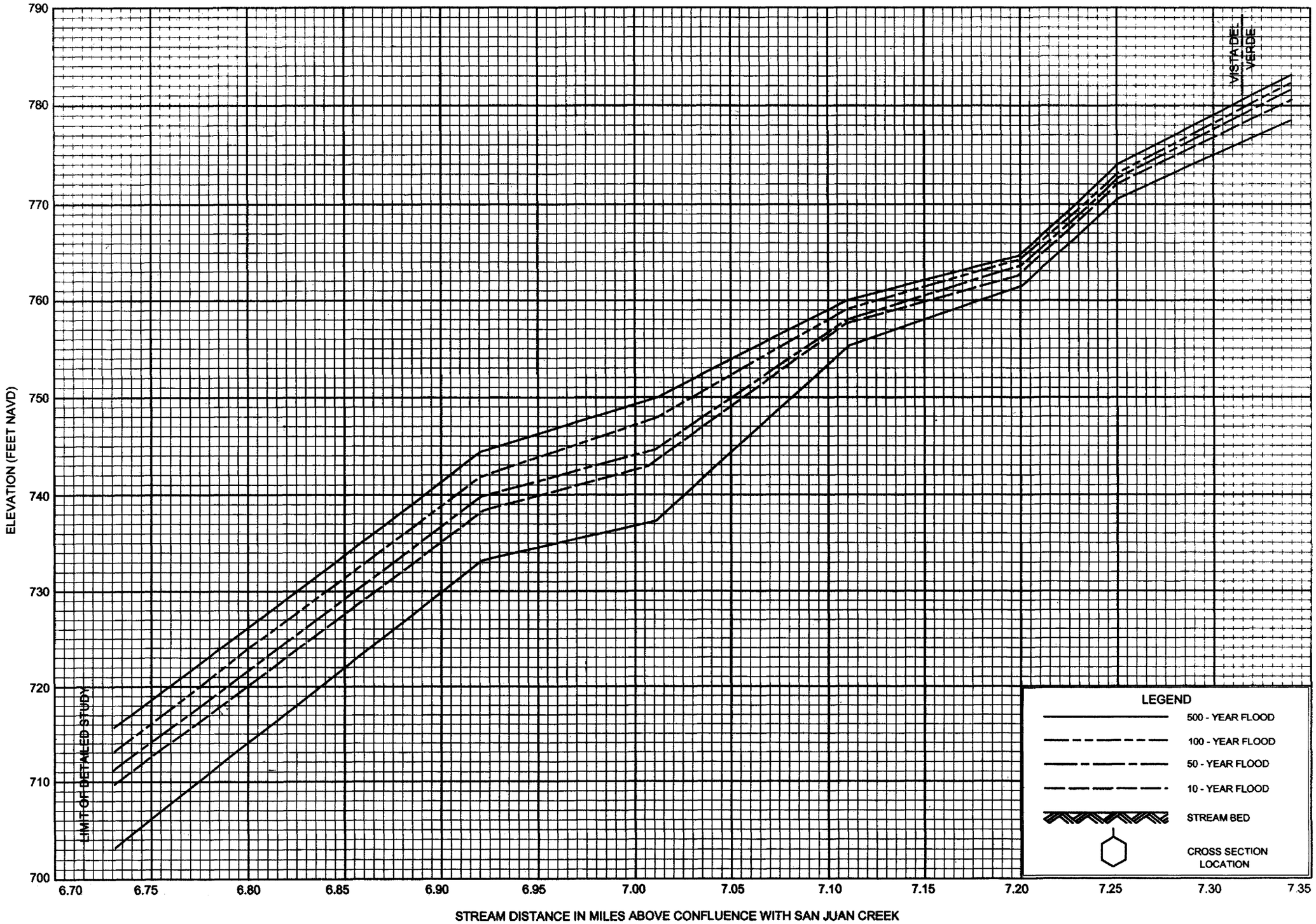

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CANADA GOBERNADORA

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ORANGE COUNTY, CA
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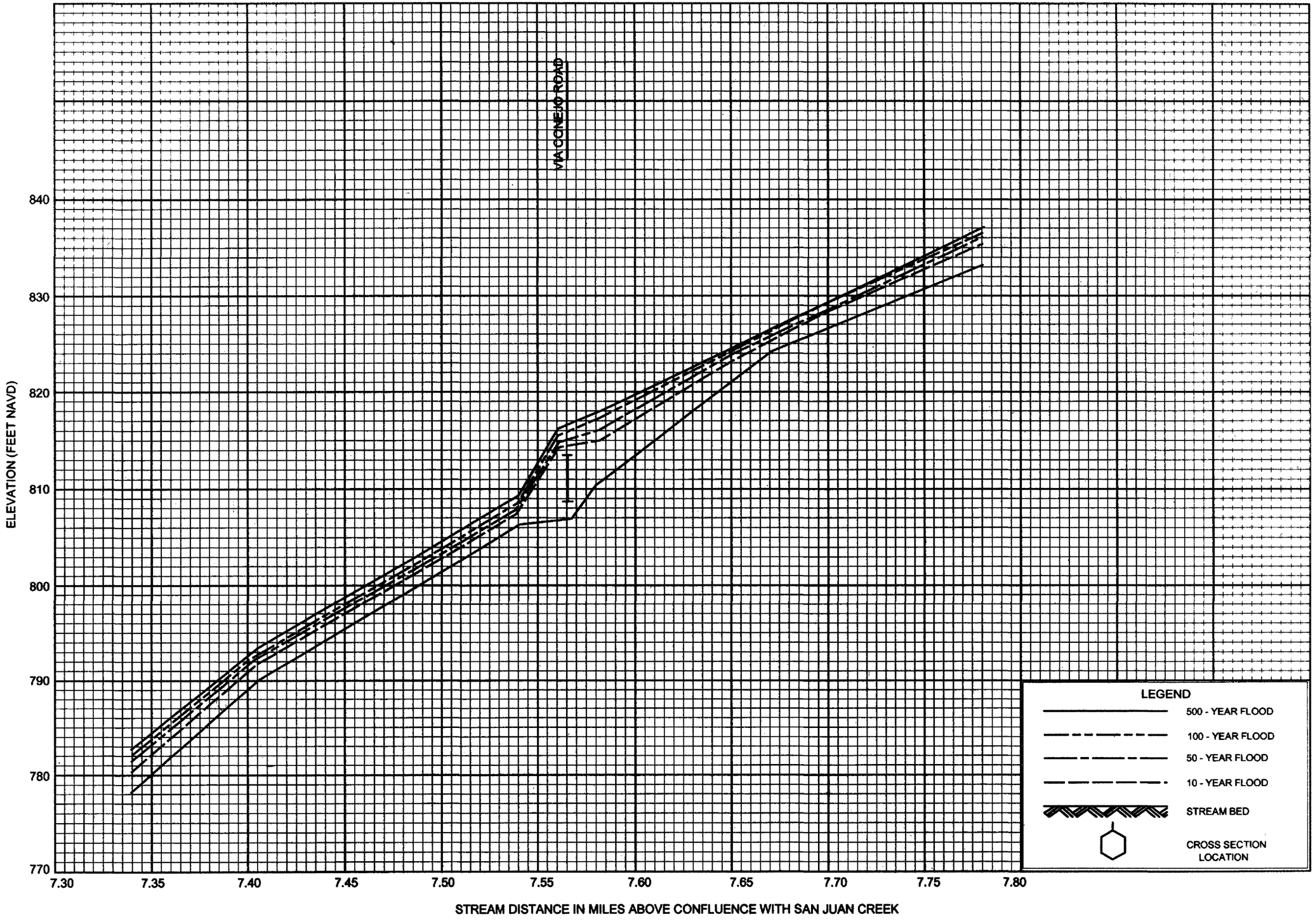

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CANADA GOBERNADORA

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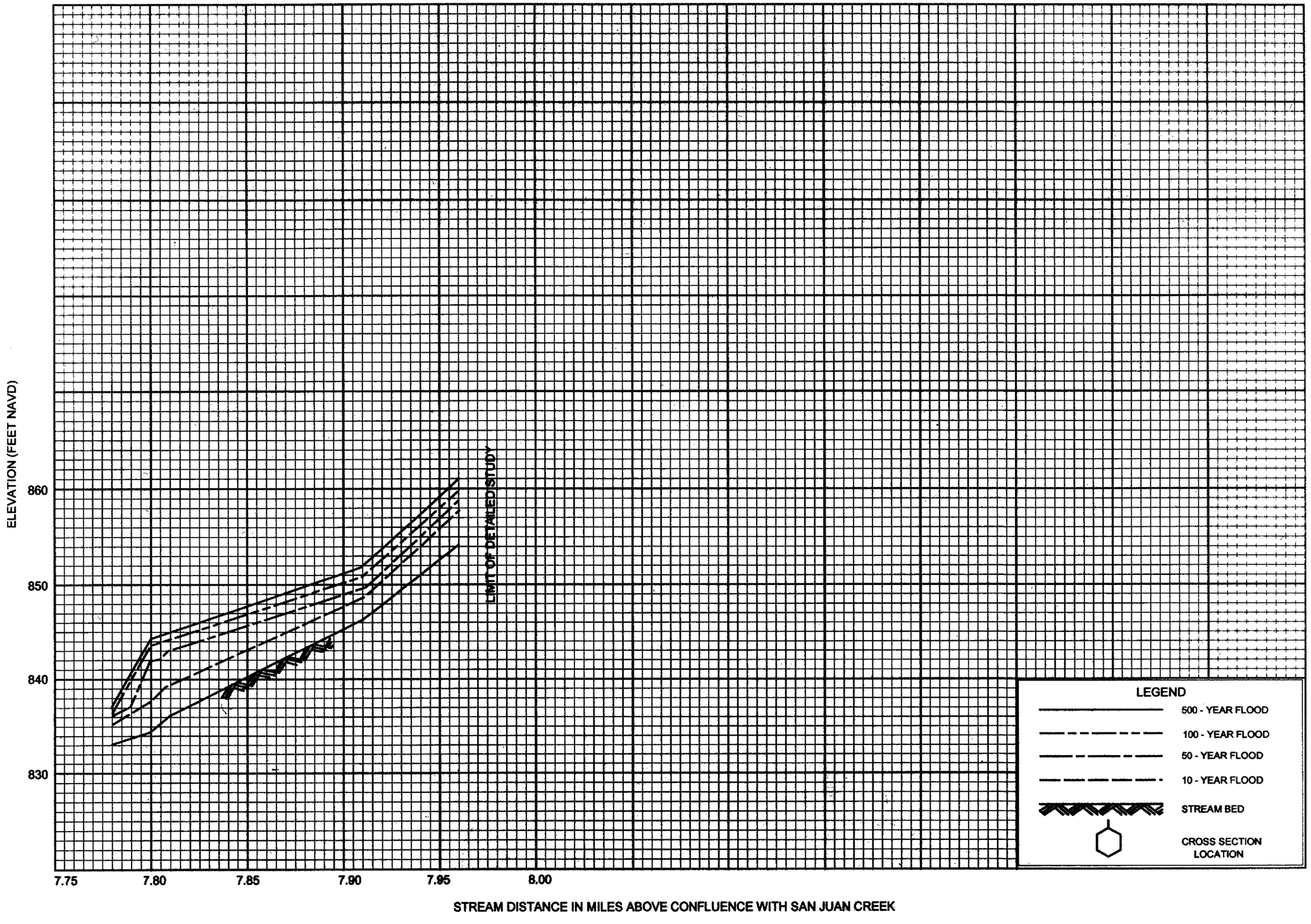
AND INCORPORATED AREAS

31P



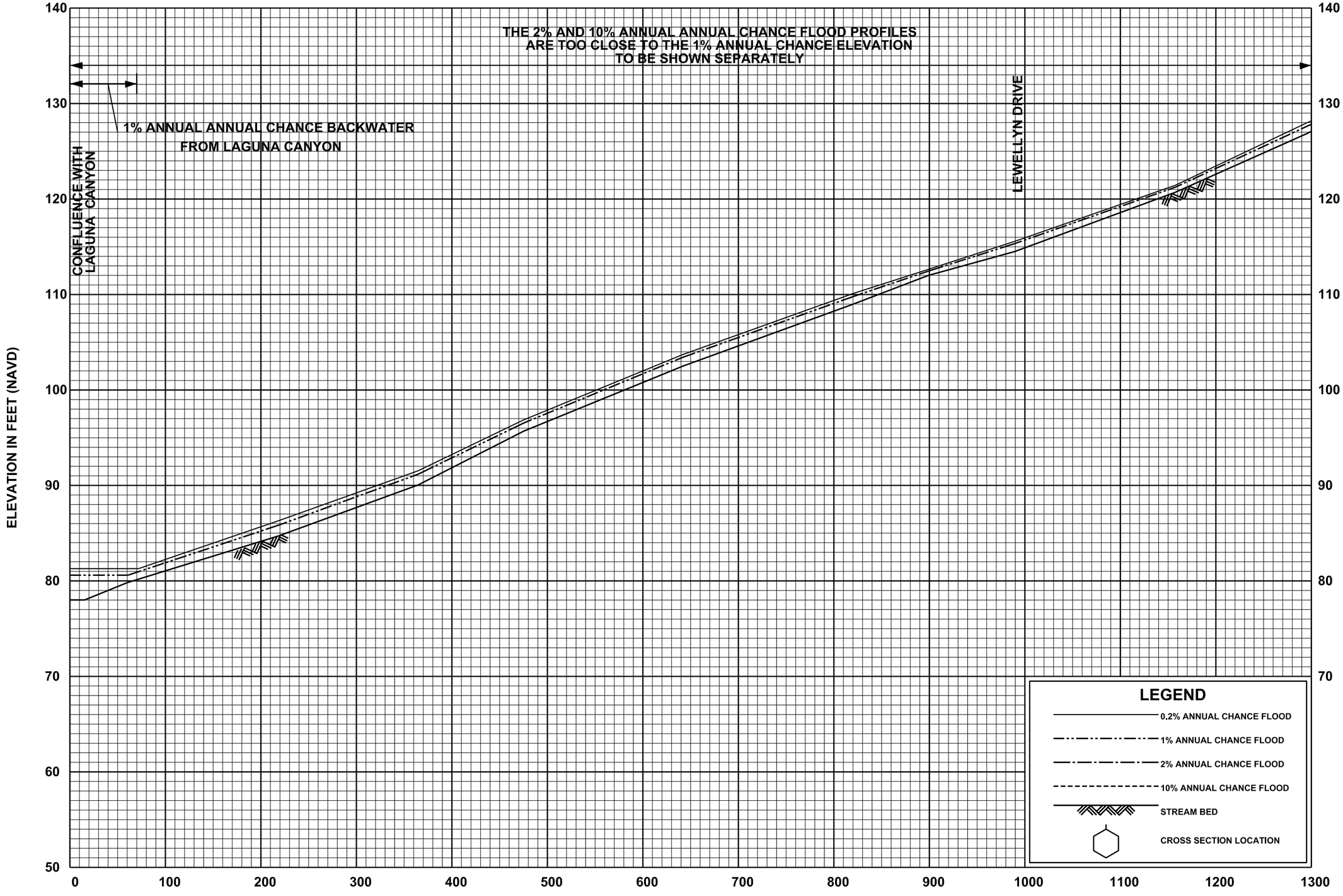
FLOOD PROFILES

CANADA GOBERNADORA

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

32P



FLOOD PROFILES

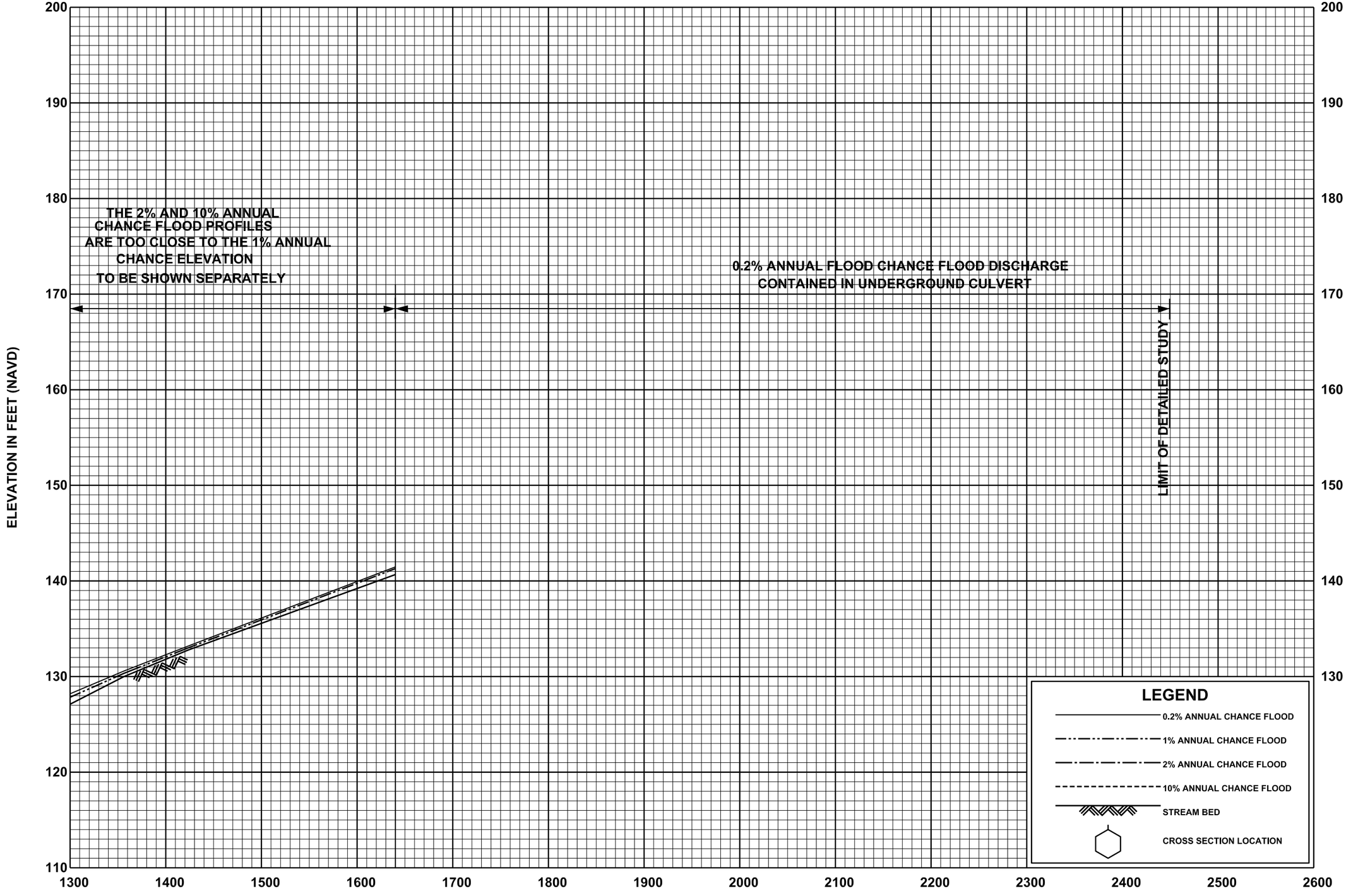
CANYON ACRES WASH

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND INCORPORATED AREAS

33P



FLOOD PROFILES

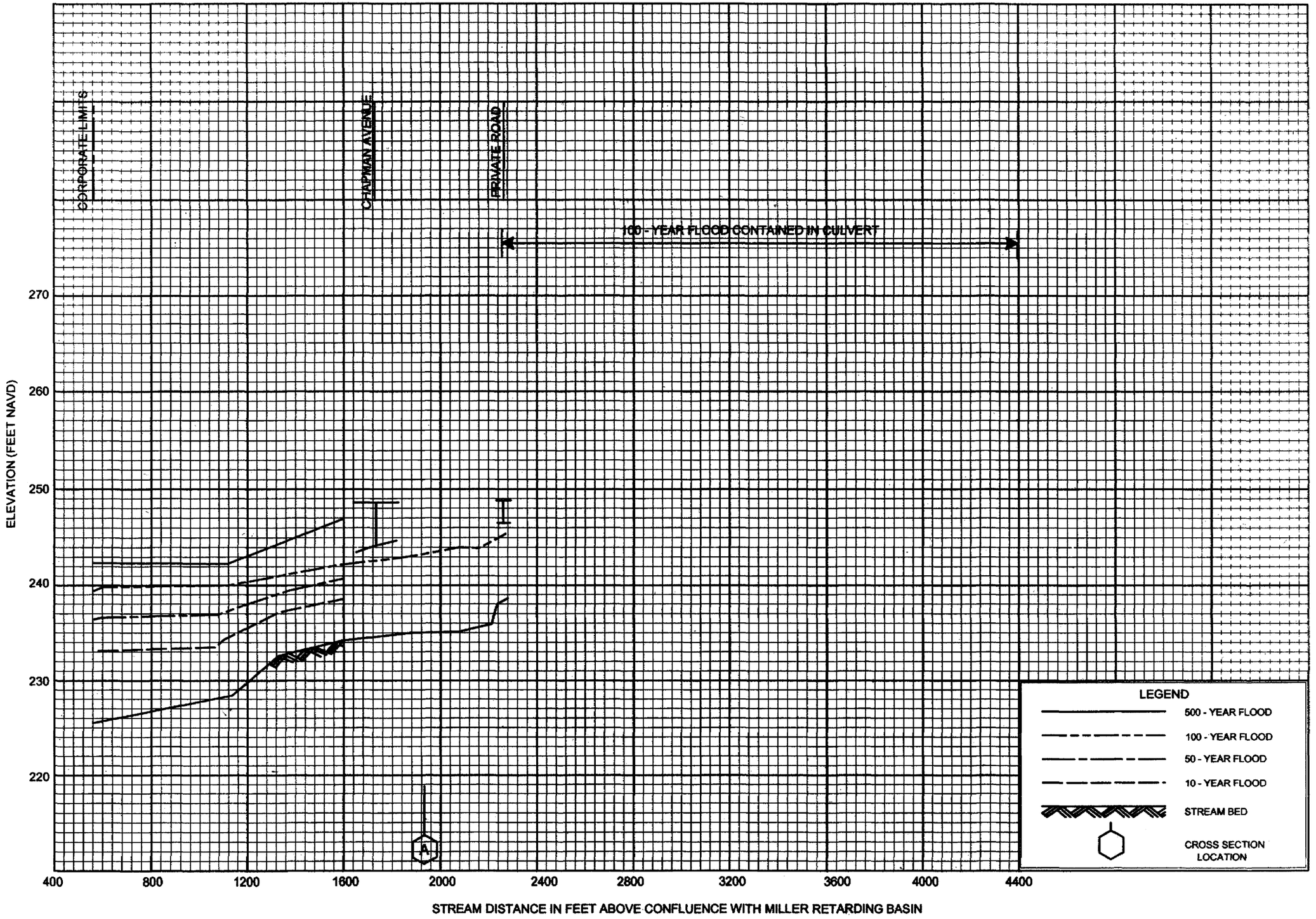
CANYON ACRES WASH

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND INCORPORATED AREAS

34P



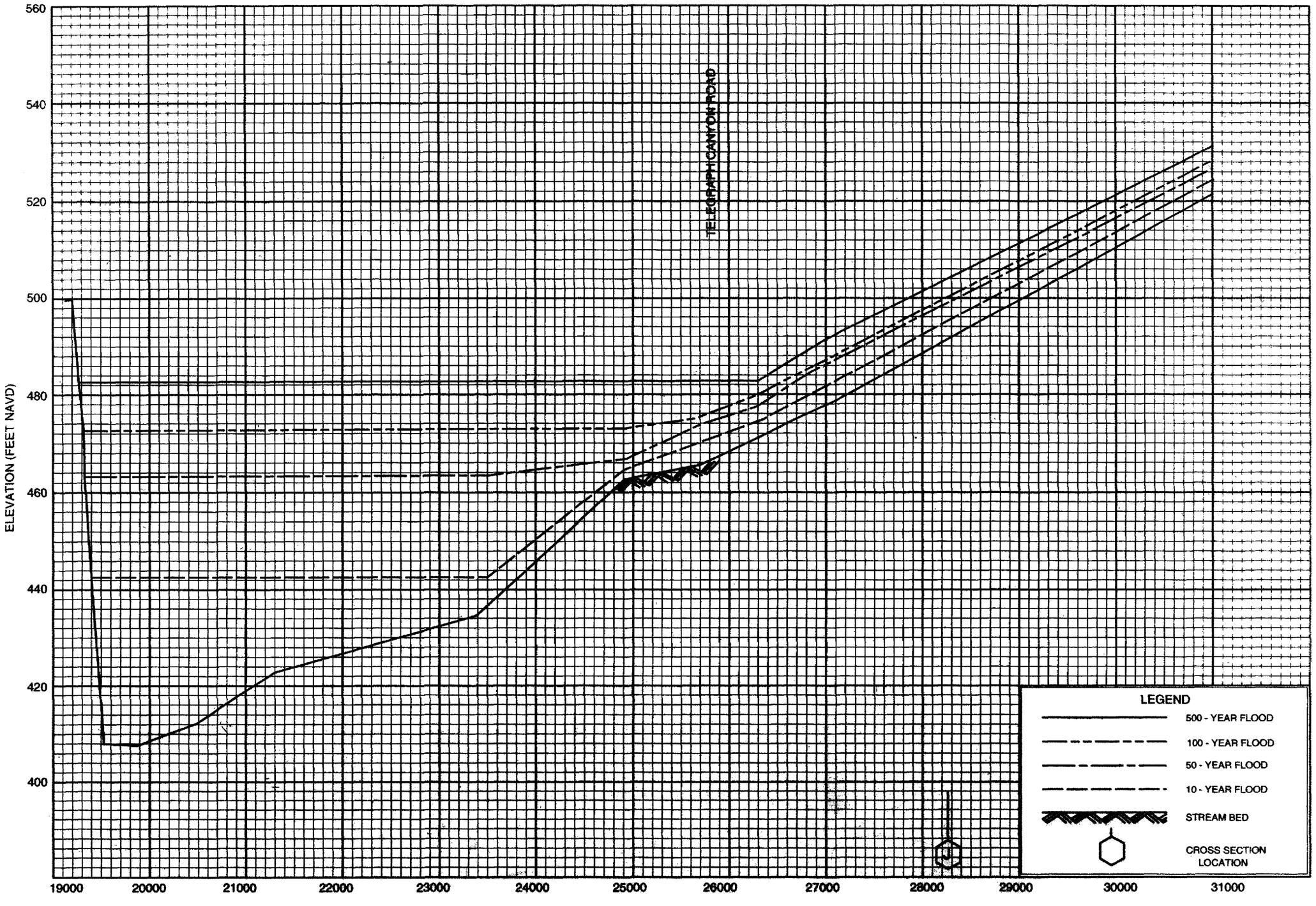
FLOOD PROFILES

CARBON CANYON CHANNEL

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

35P



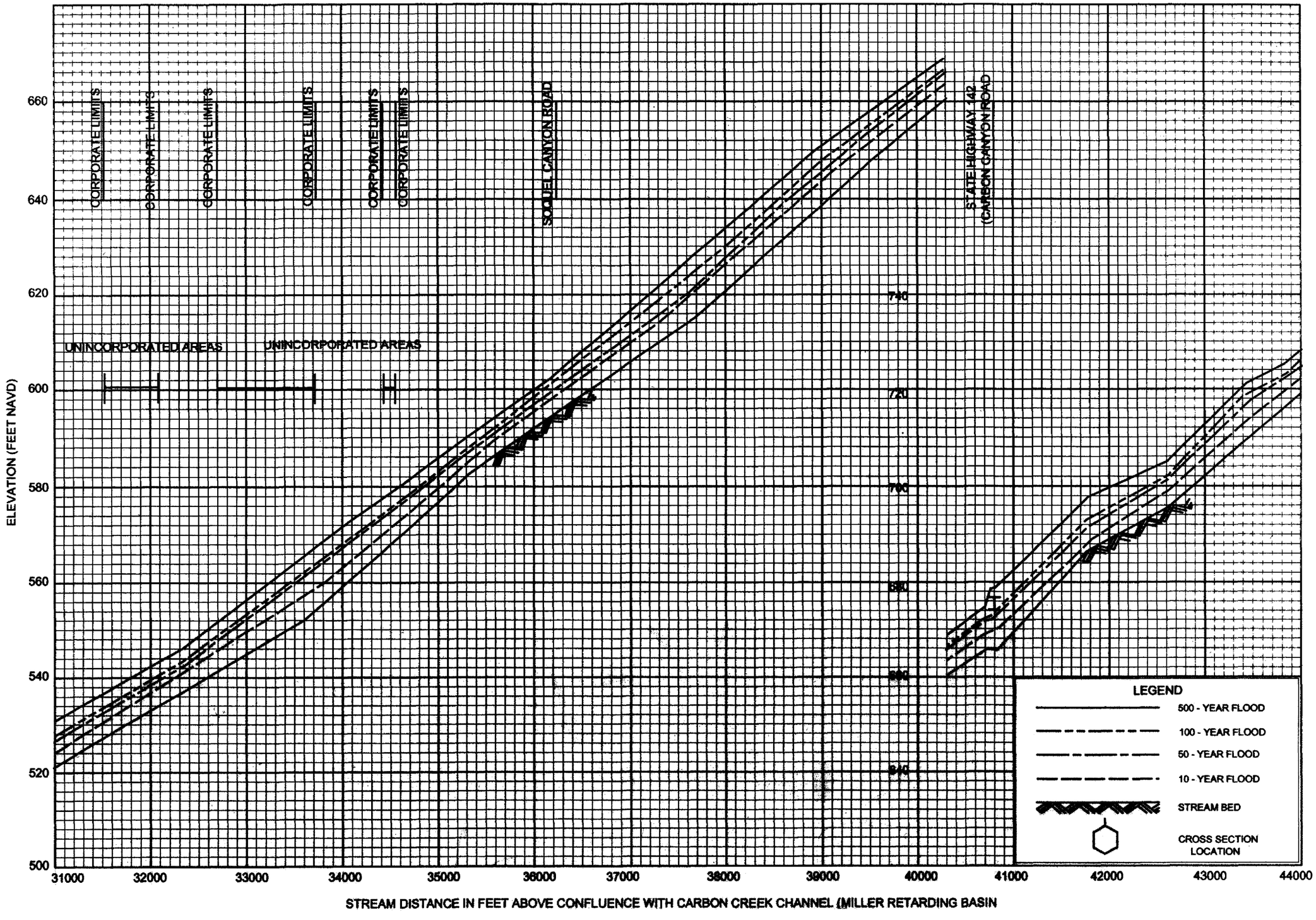
FLOOD PROFILES

CARBON CANYON CHANNEL

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

36P



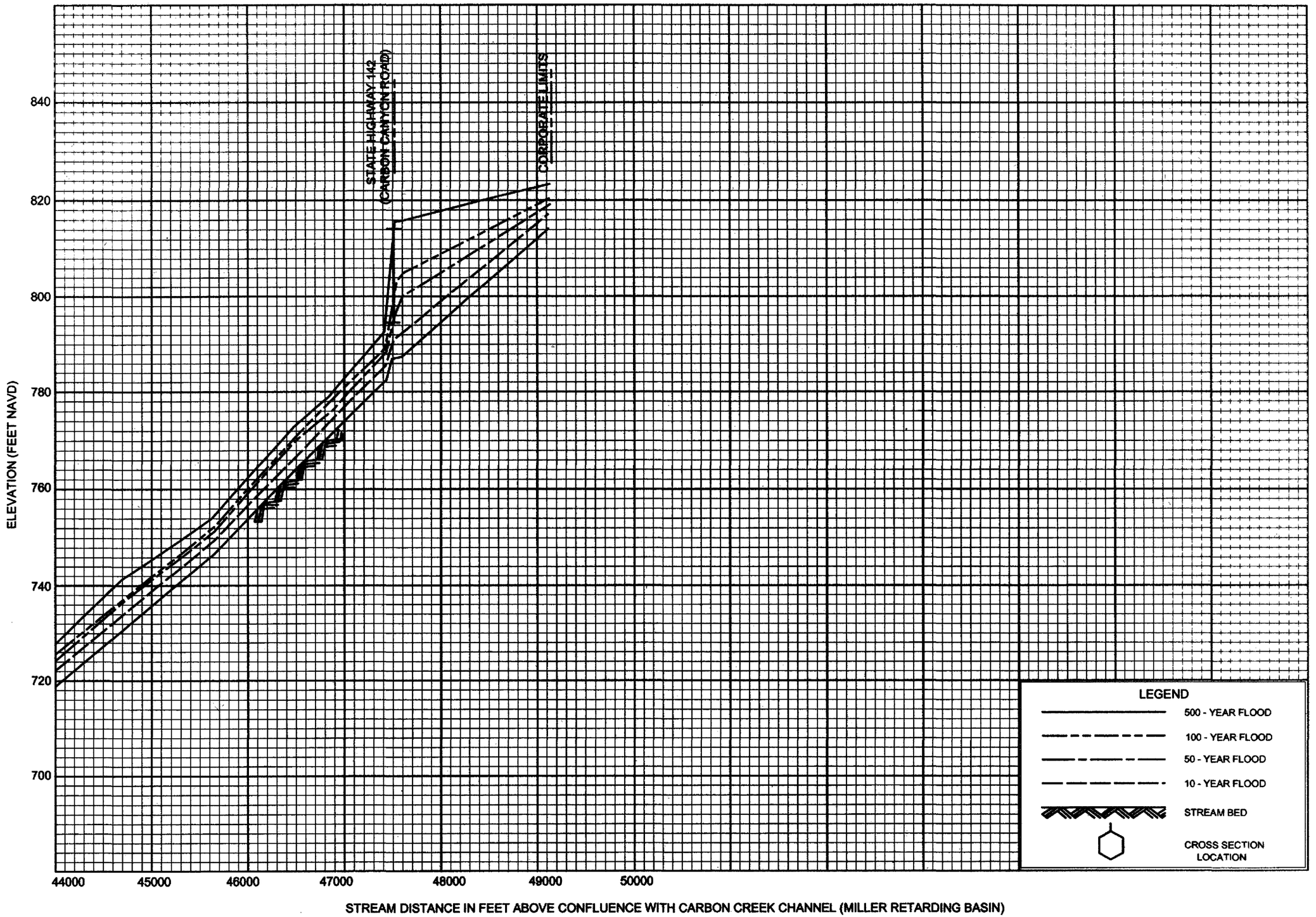
FLOOD PROFILES

CARBON CANYON CHANNEL

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

37P



FLOOD PROFILES

CARBON CANYON CHANNEL

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

38P

CORPORATE LIMITS
PLACENTIA AVENUE
CONFLUENCE WITH PLACENTIA STORM CHANNEL
ORANGE FREEWAY (STATE ROUTE 57)
GONZALES AVENUE
TAFOLLA STREET
MELROSE STREET
LIMIT OF DETAILED STUDY

SANTA ANA RIVER 500-YEAR OVERFLOW

10-AND 50-YEAR FLOODS COINCIDE

ELEVATION (FEET NAVD)

220
210
200
190
180

62500 63000 63500 64000 64500 65000 65500 66000 66500 67000 67500 68000 68500 69000

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH COYOTE CREEK CHANNEL

LEGEND
500 - YEAR FLOOD
100 - YEAR FLOOD
50 - YEAR FLOOD
10 - YEAR FLOOD
STREAM BED
CROSS SECTION LOCATION

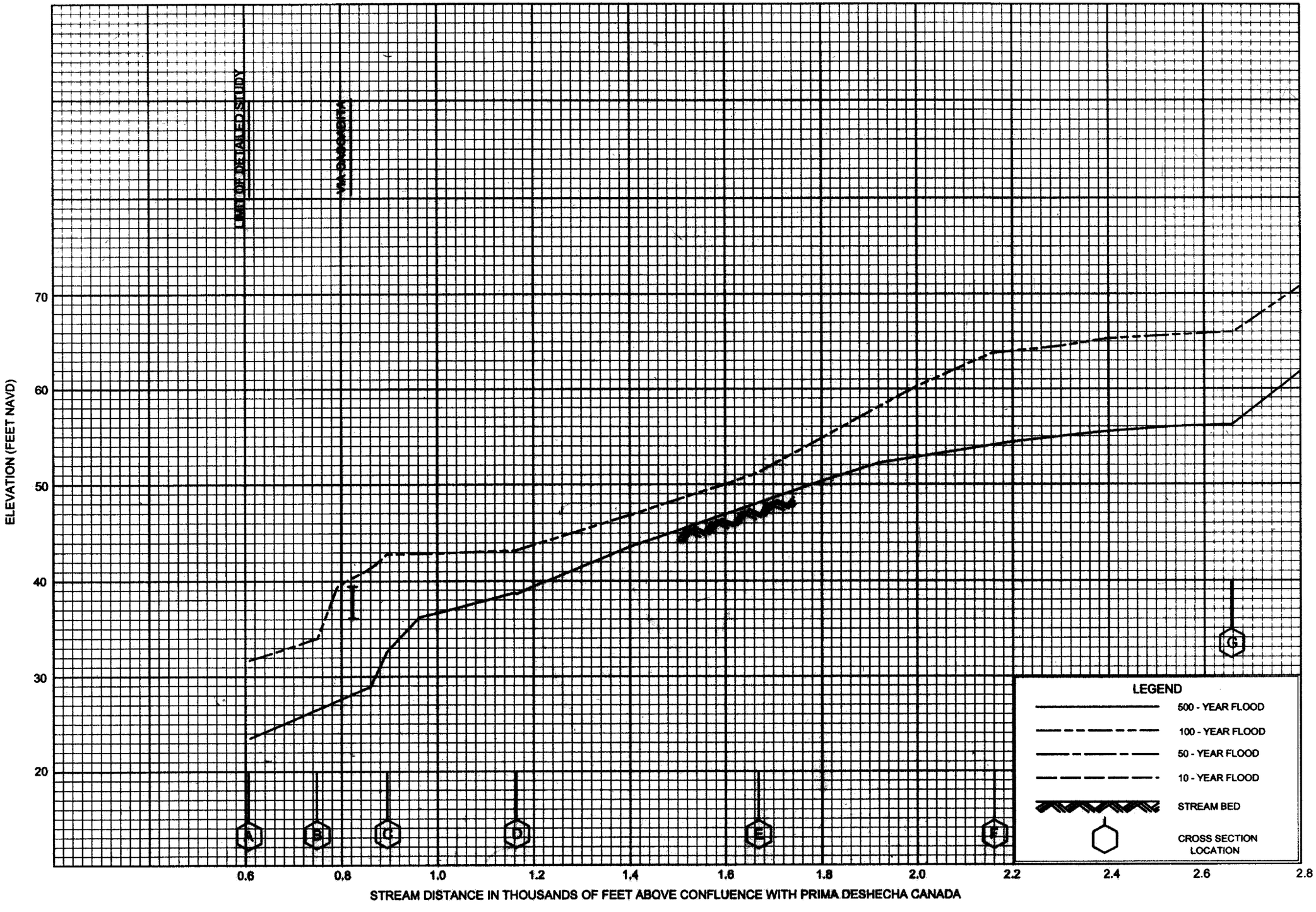
FLOOD PROFILES

CARBON CREEK CHANNEL

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

39P

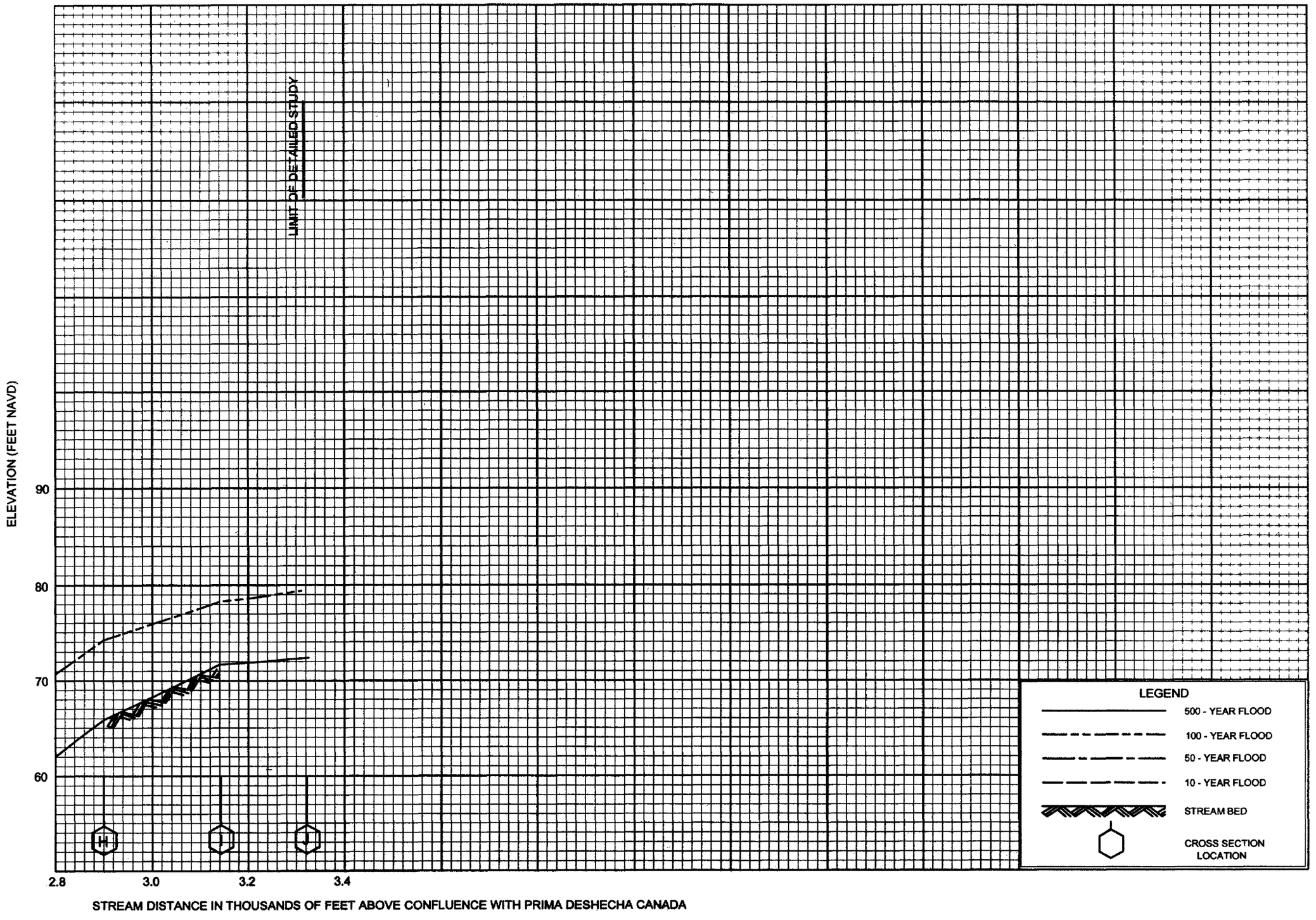


FLOOD PROFILES

CASCADITA CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

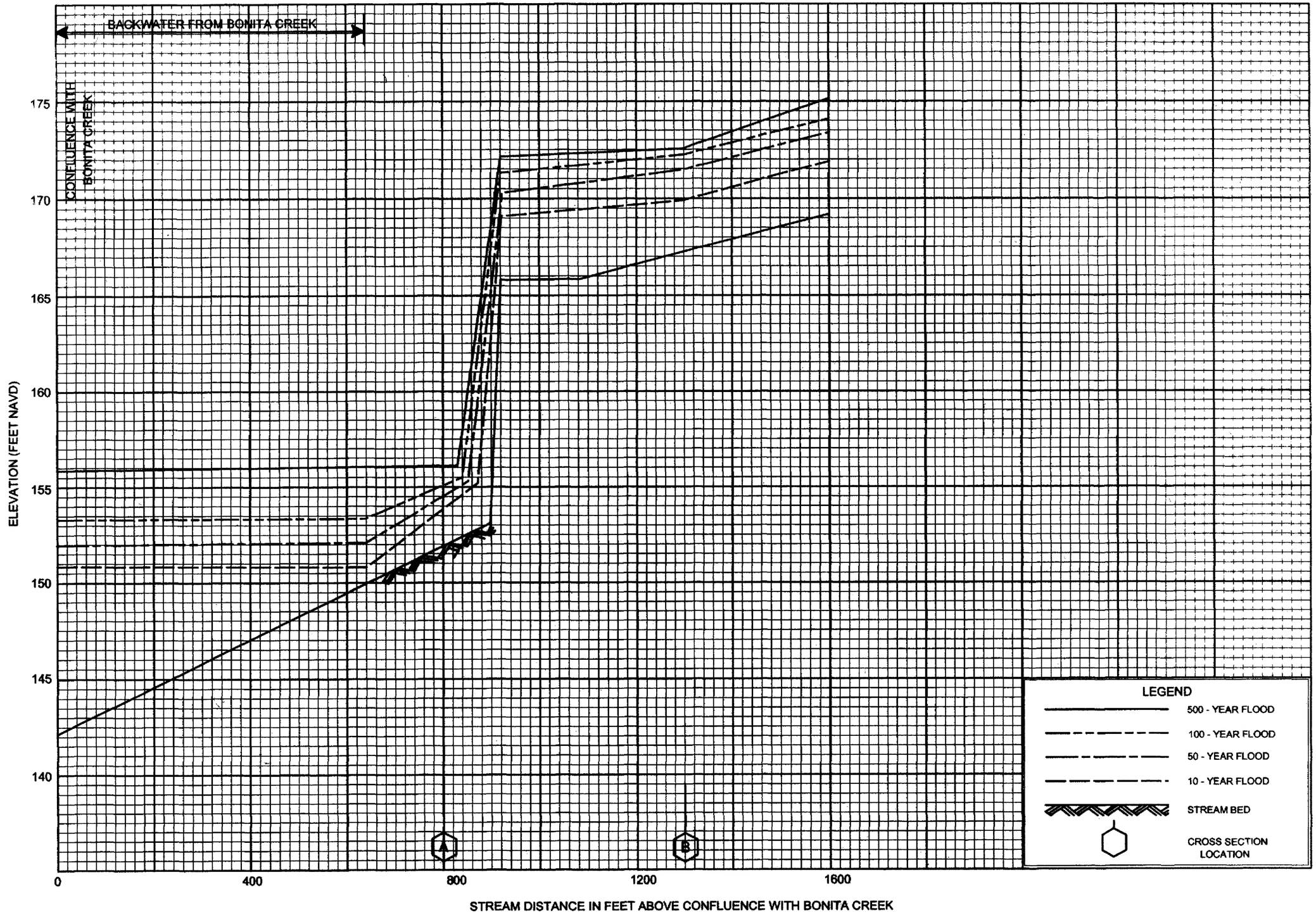


FLOOD PROFILES

CASCADITA CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS



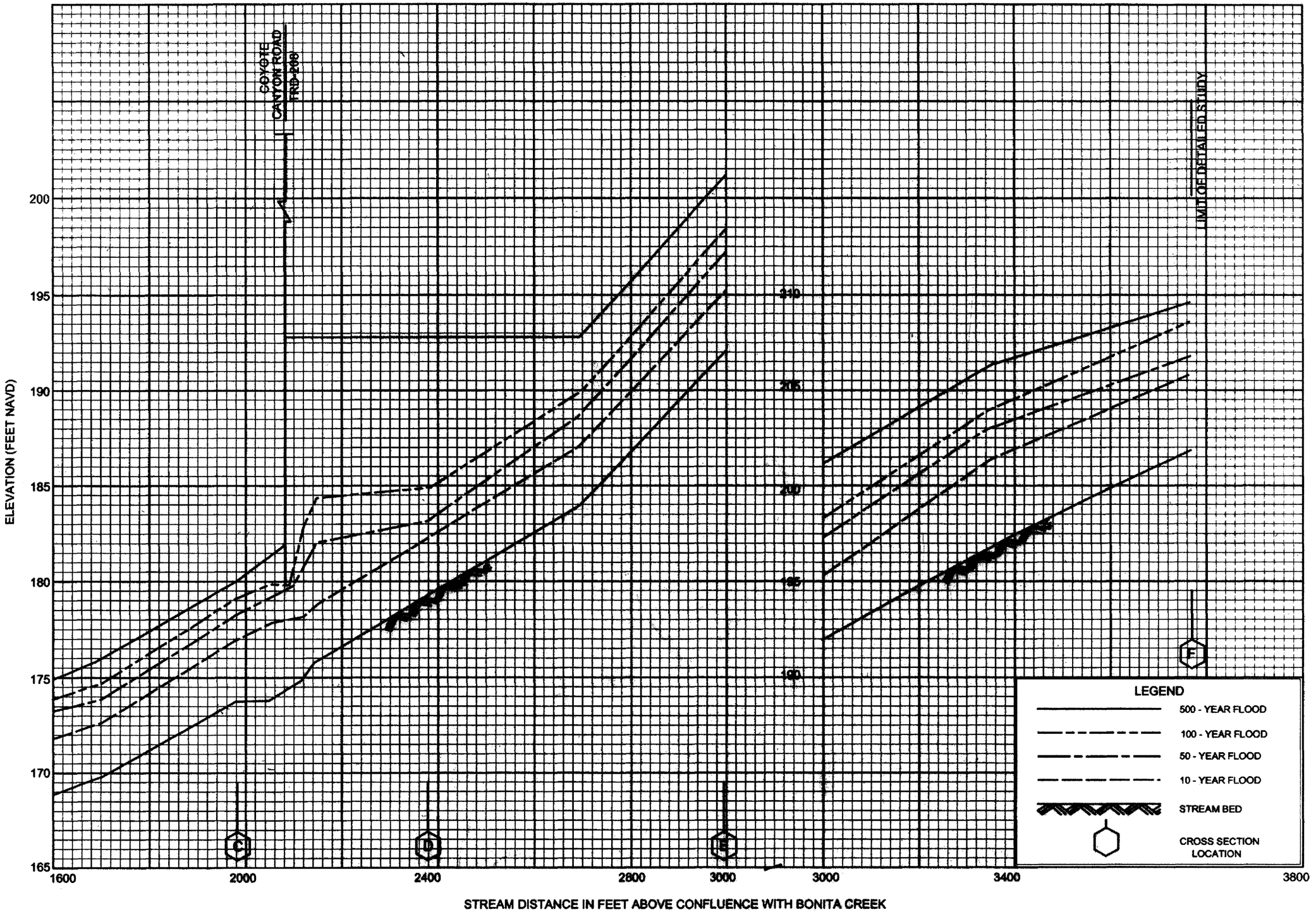
FLOOD PROFILES

COYOTE CANYON WASH

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

42P



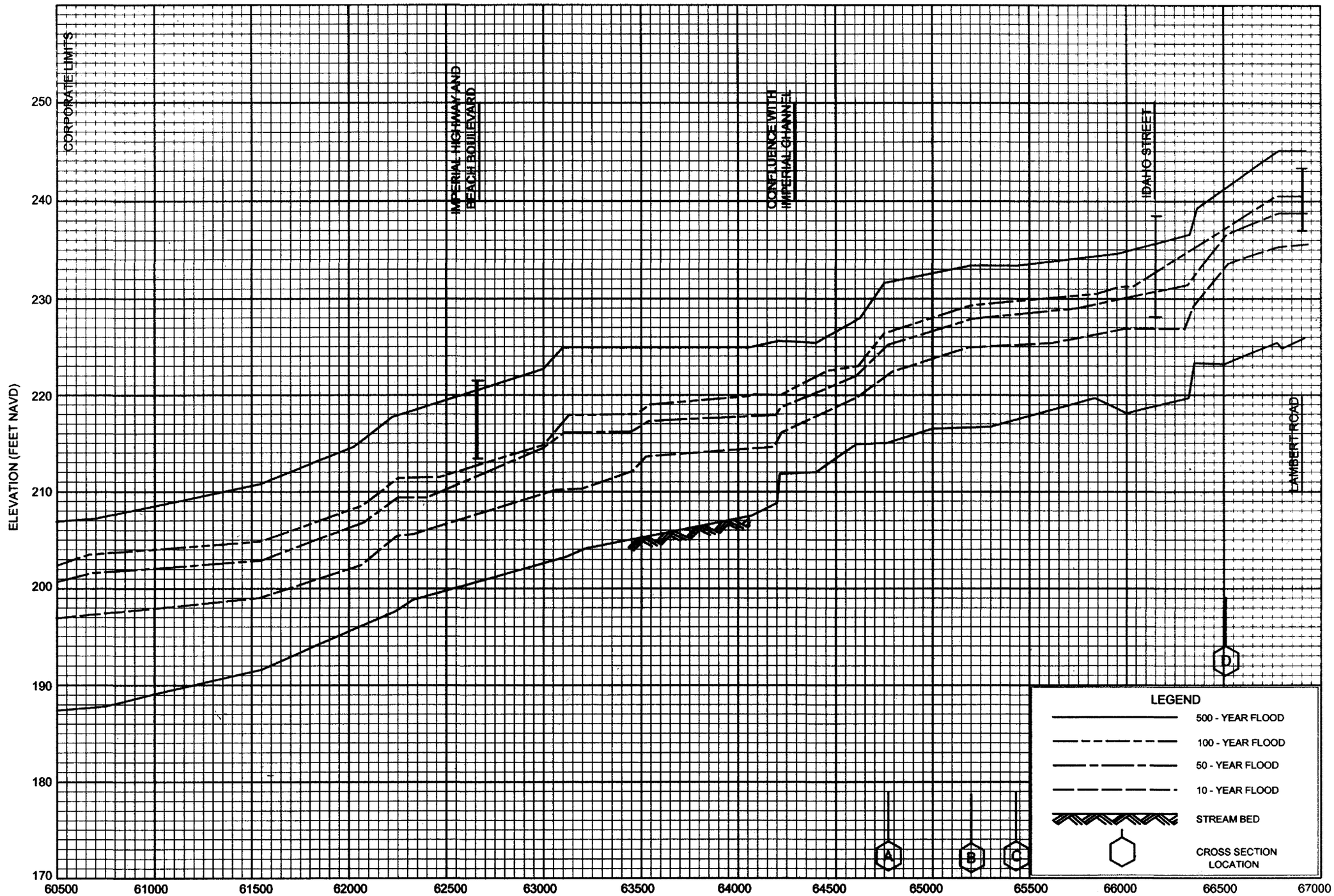
FLOOD PROFILES

COYOTE CANYON WASH

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

43P



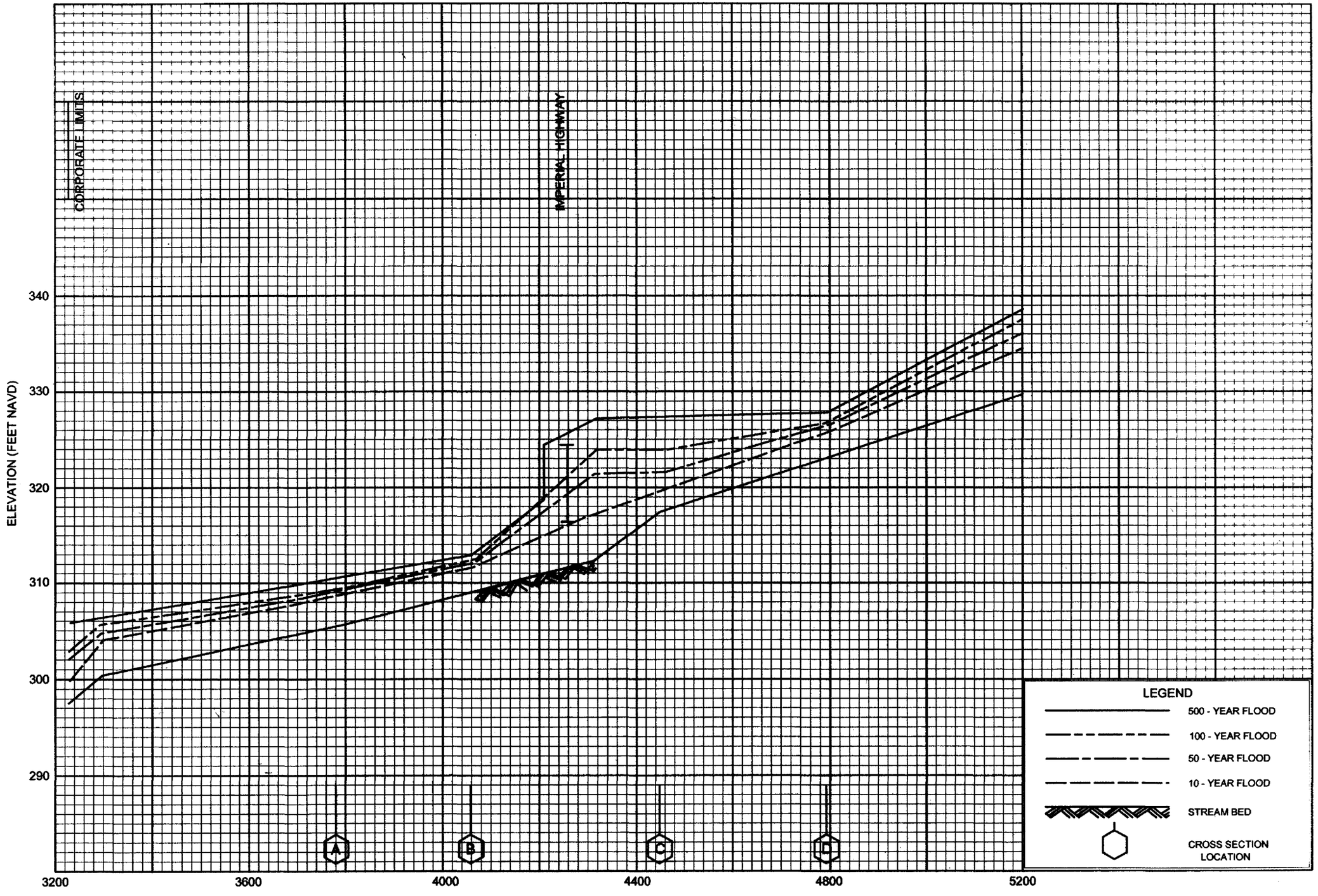
FLOOD PROFILES

COYOTE CREEK CHANNEL

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

44P



FLOOD PROFILES

EAST RICHFIELD CHANNEL

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

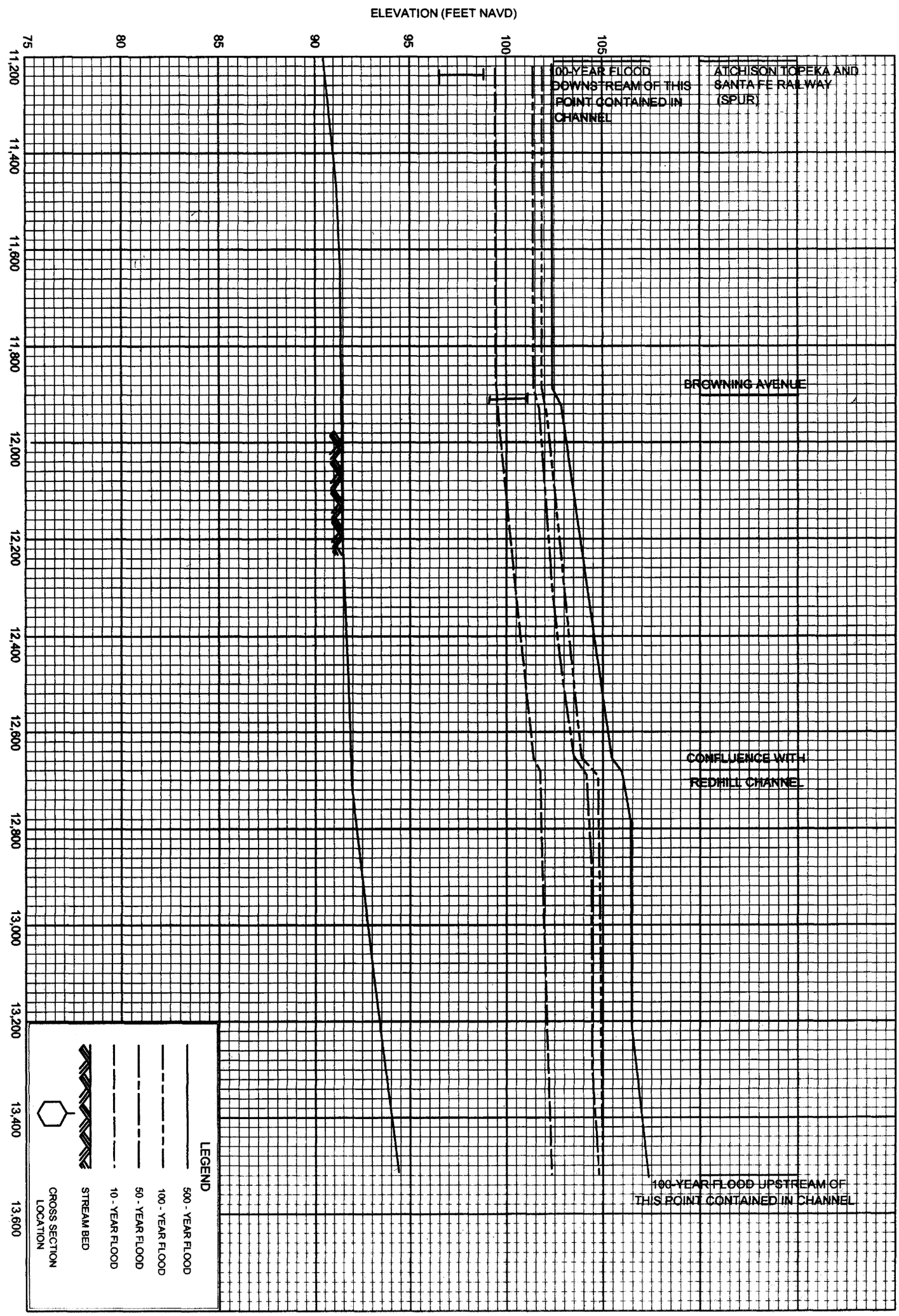
FLOOD PROFILES

EAST RICHFIELD CHANNEL

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

46P



FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

FLOOD PROFILES

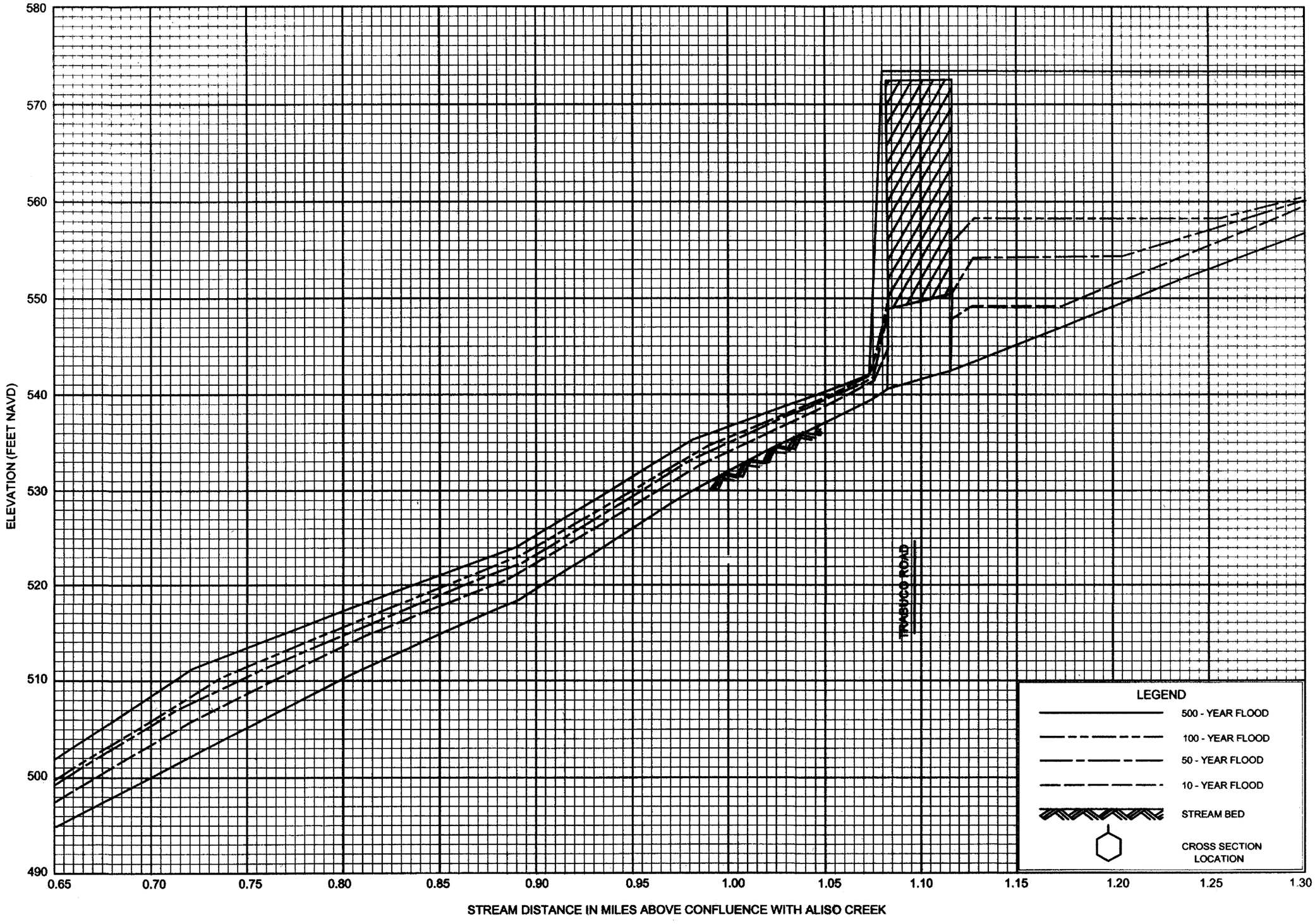
EL MODENA-IRVINE CHANNEL

FLOOD PROFILES

ENGLISH CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

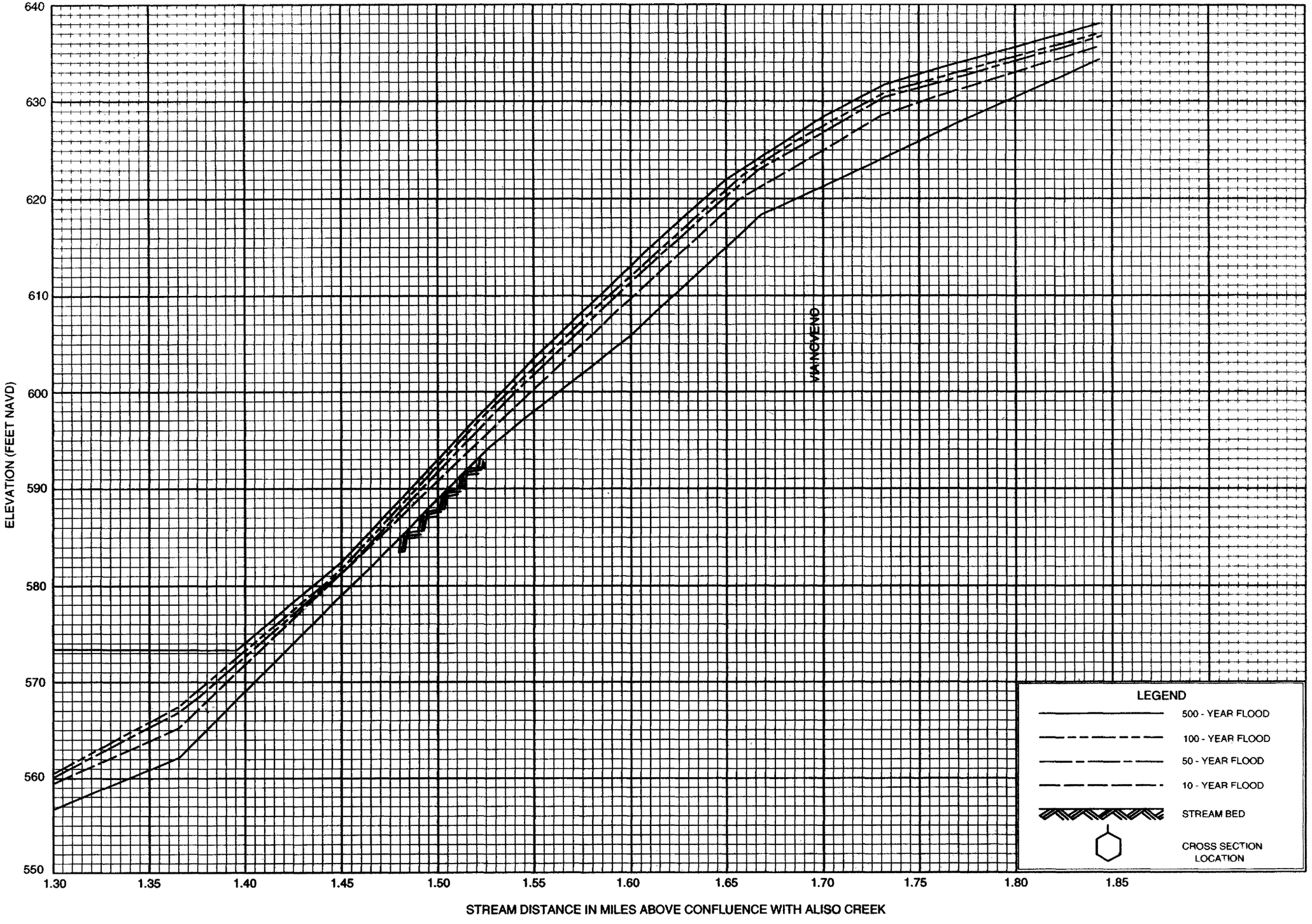


FLOOD PROFILES

ENGLISH CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS



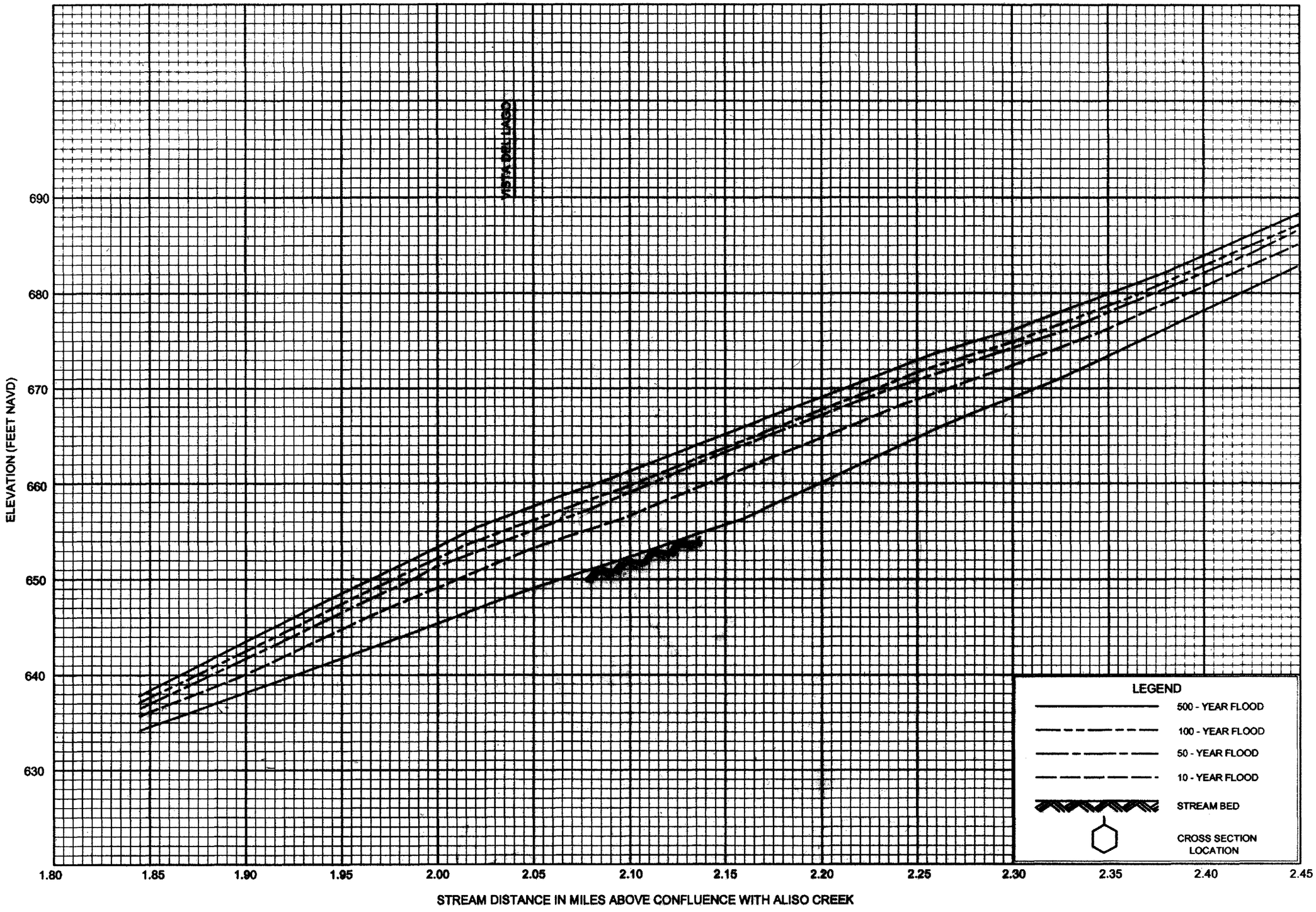
FLOOD PROFILES

ENGLISH CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

50P



FLOOD PROFILES

ENGLISH CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

FLOOD PROFILES

ENGLISH CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

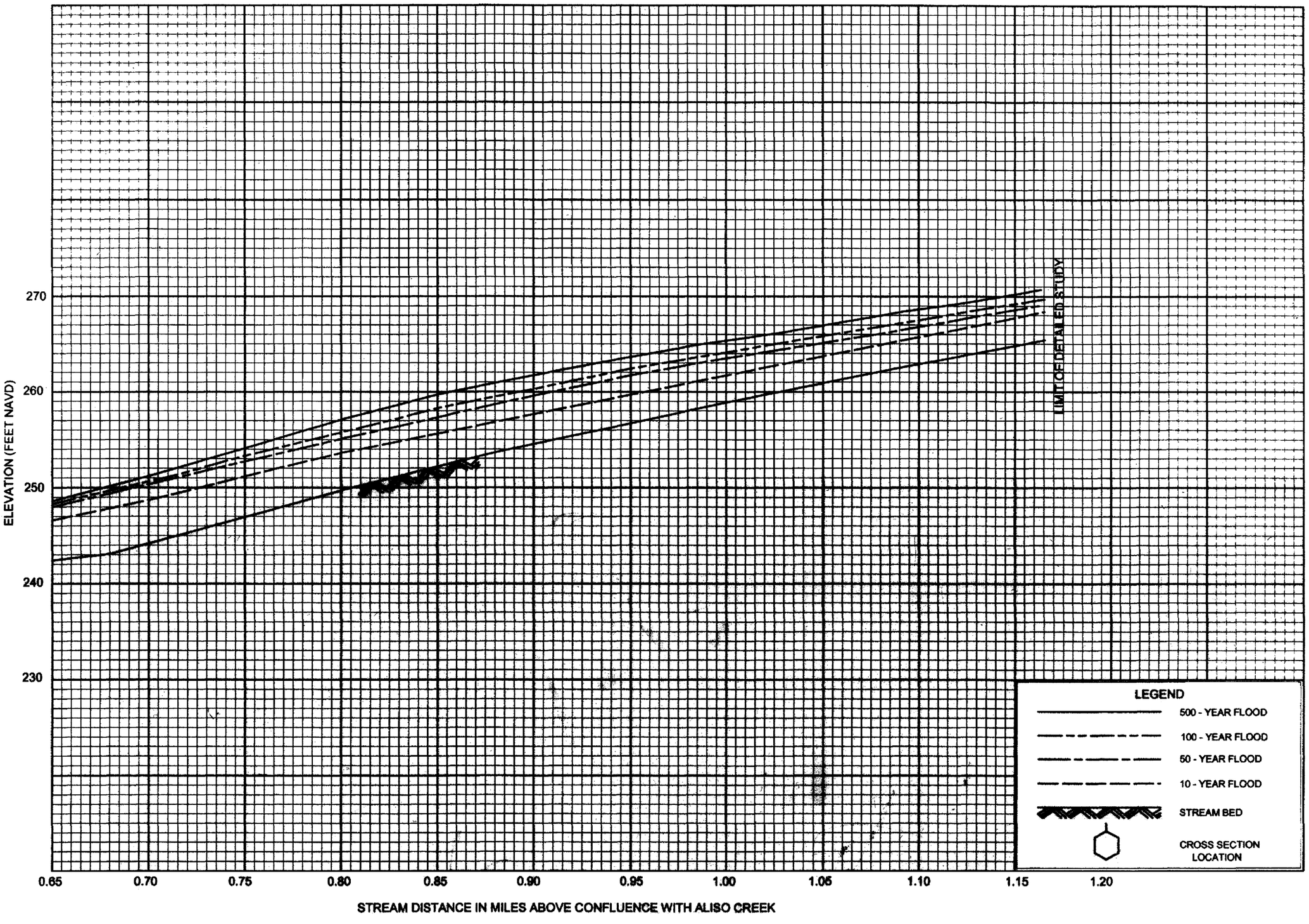
FLOOD PROFILES

FACILITY NO. J05

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

53P



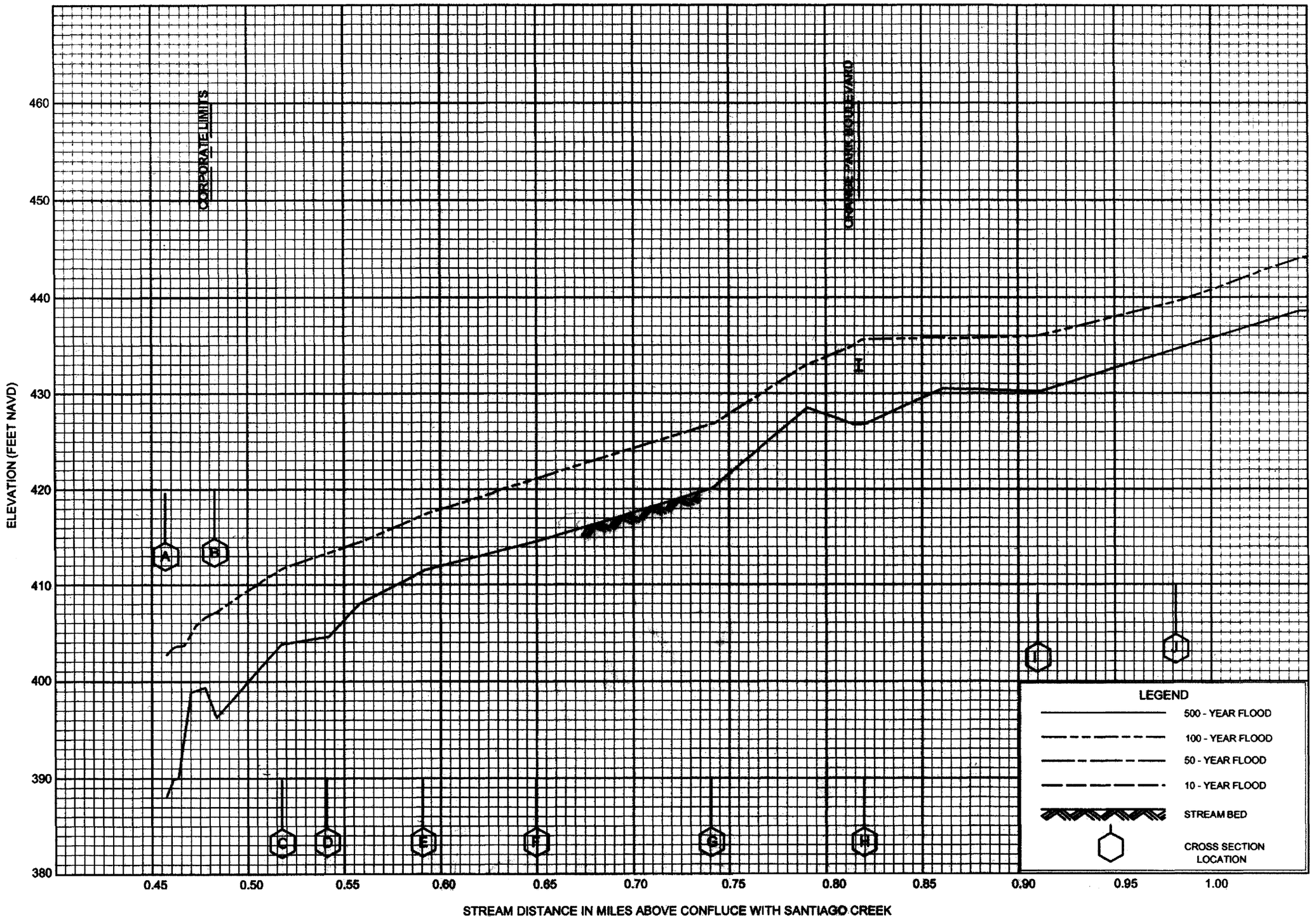
FLOOD PROFILES

FACILITY NO. J05

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

54P



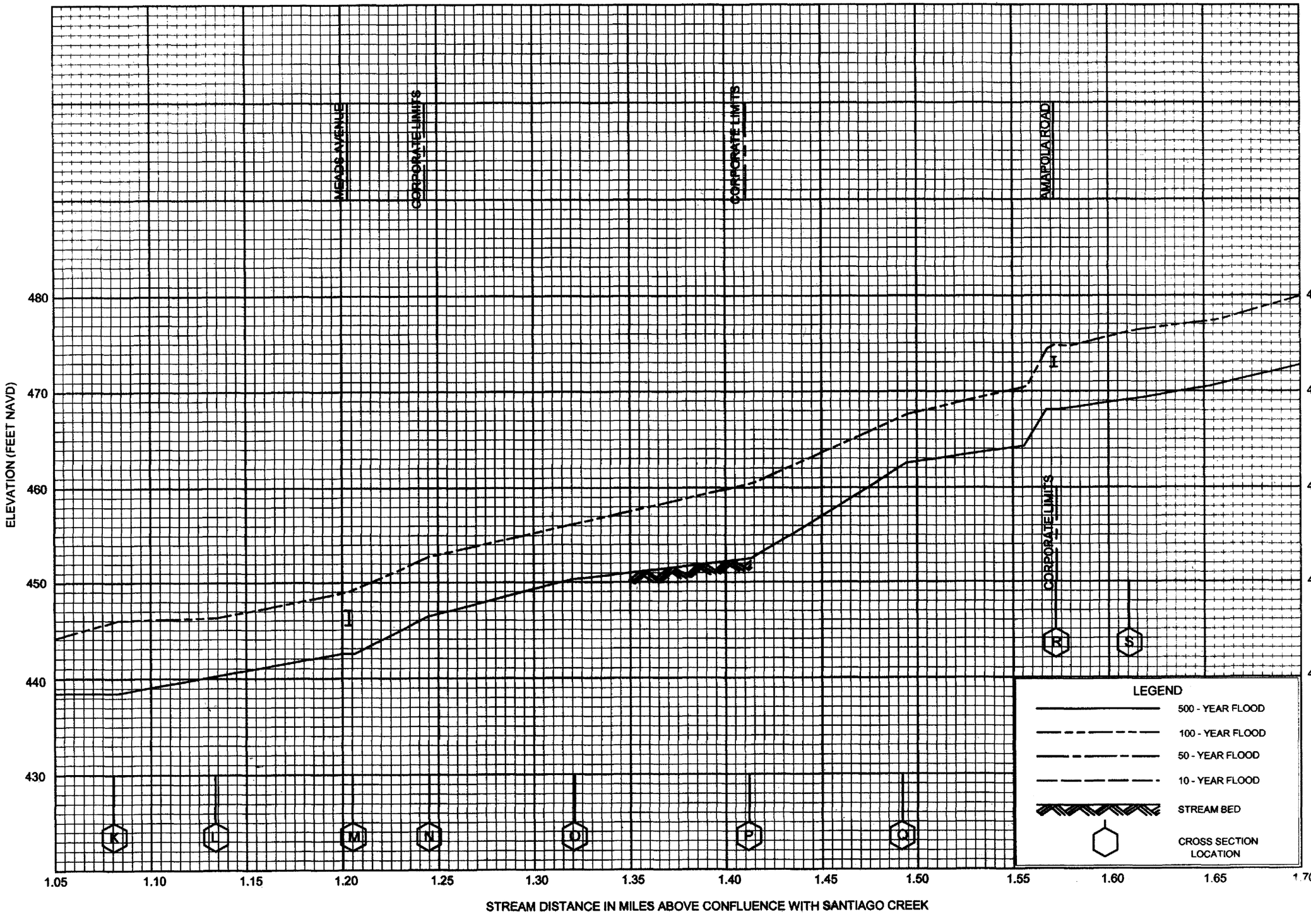
FLOOD PROFILES

HANDY CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

55P



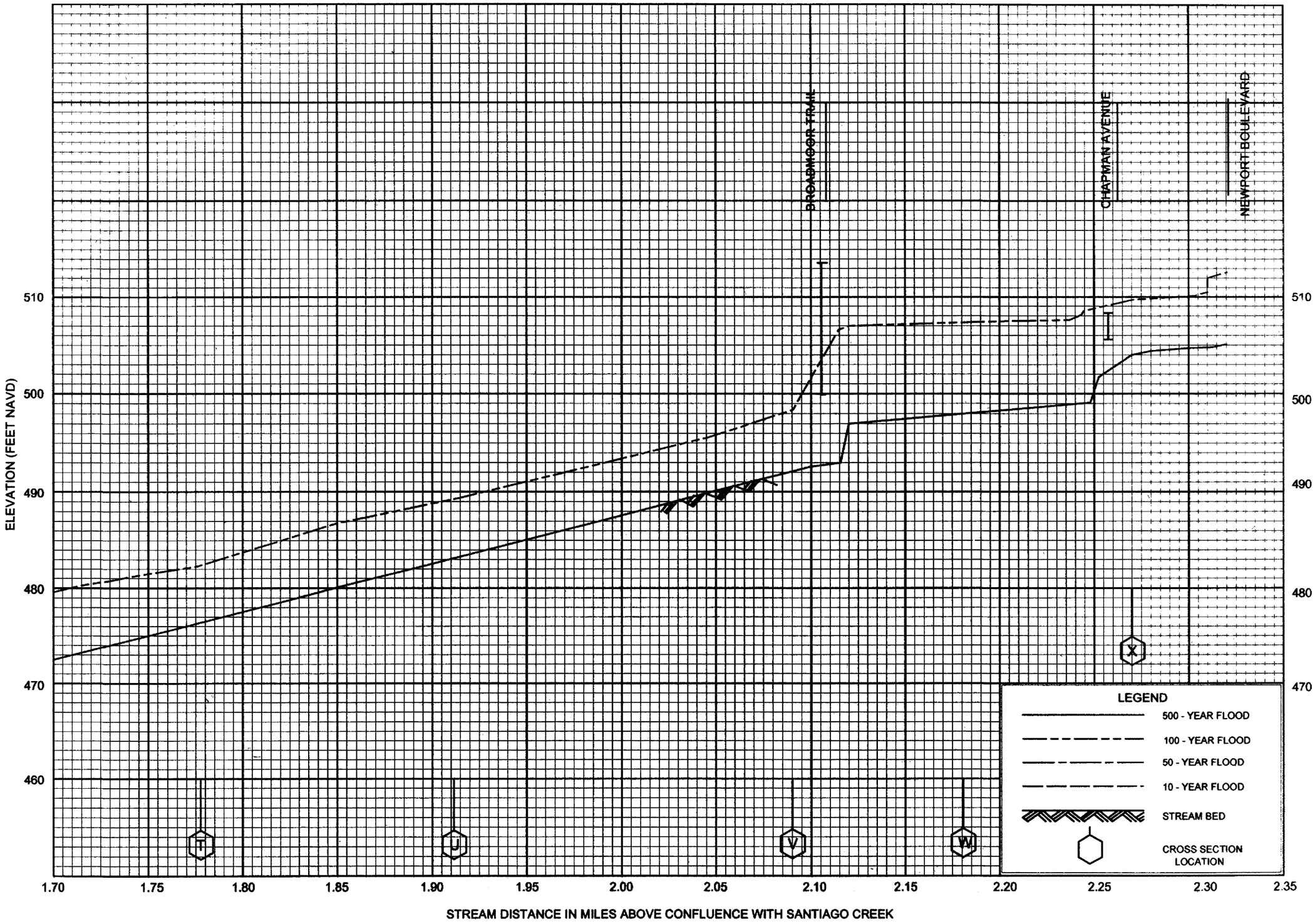
FLOOD PROFILES

HANDY CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

56P

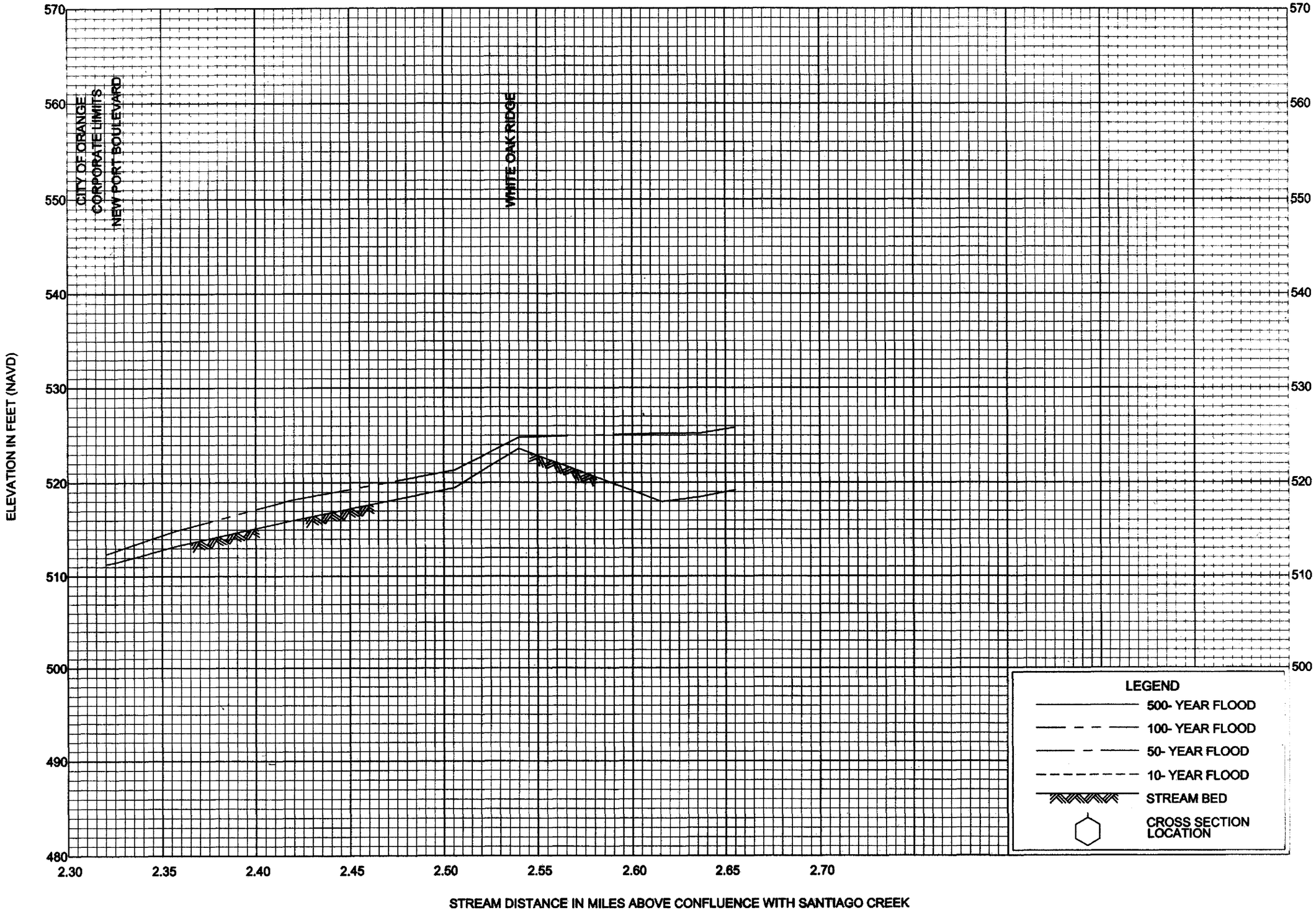


FLOOD PROFILES

HANDY CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS



FLOOD PROFILES

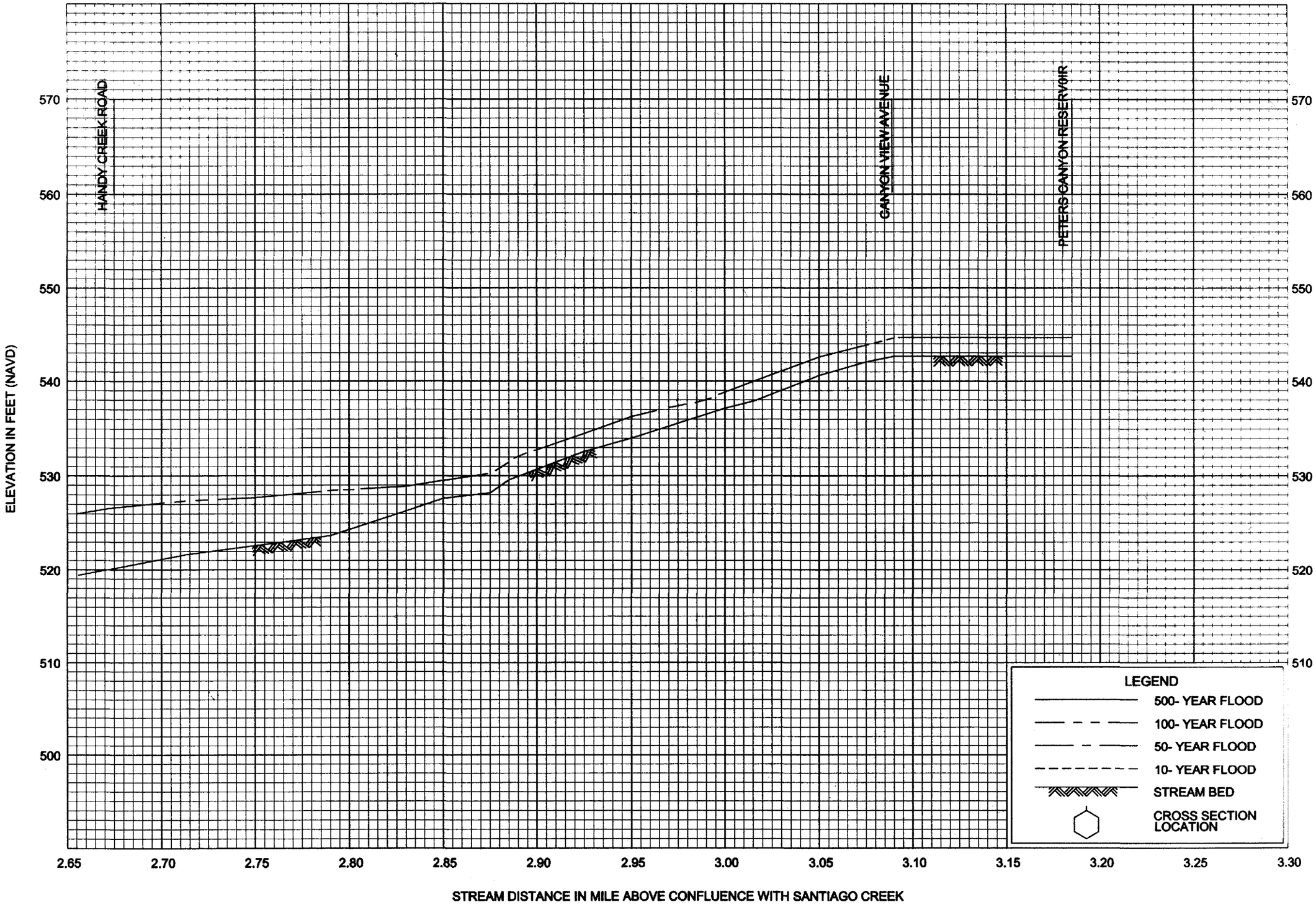
HANDY CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND INCORPORATED AREAS

58P



FLOOD PROFILES

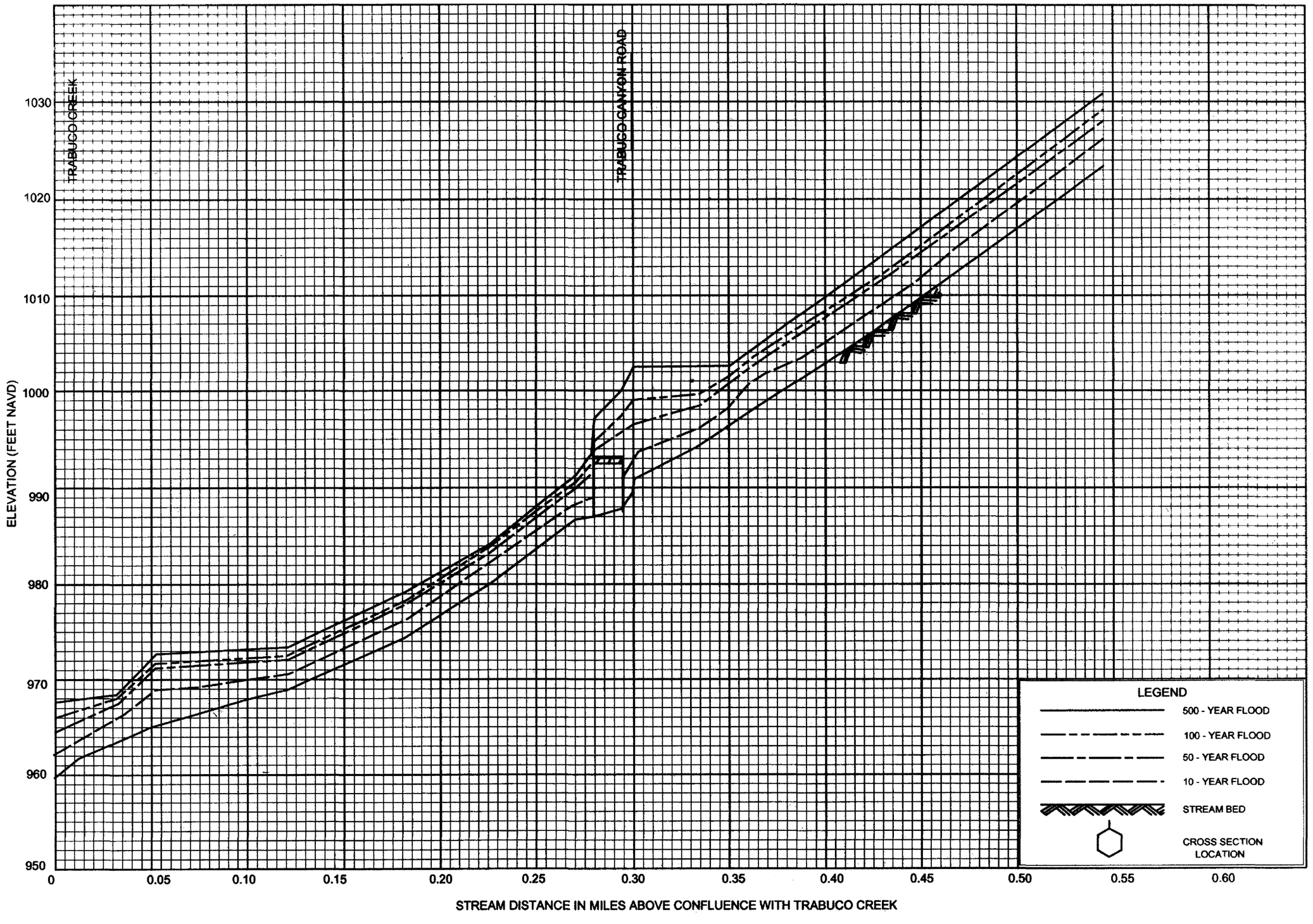
HANDY CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND INCORPORATED AREAS

59P



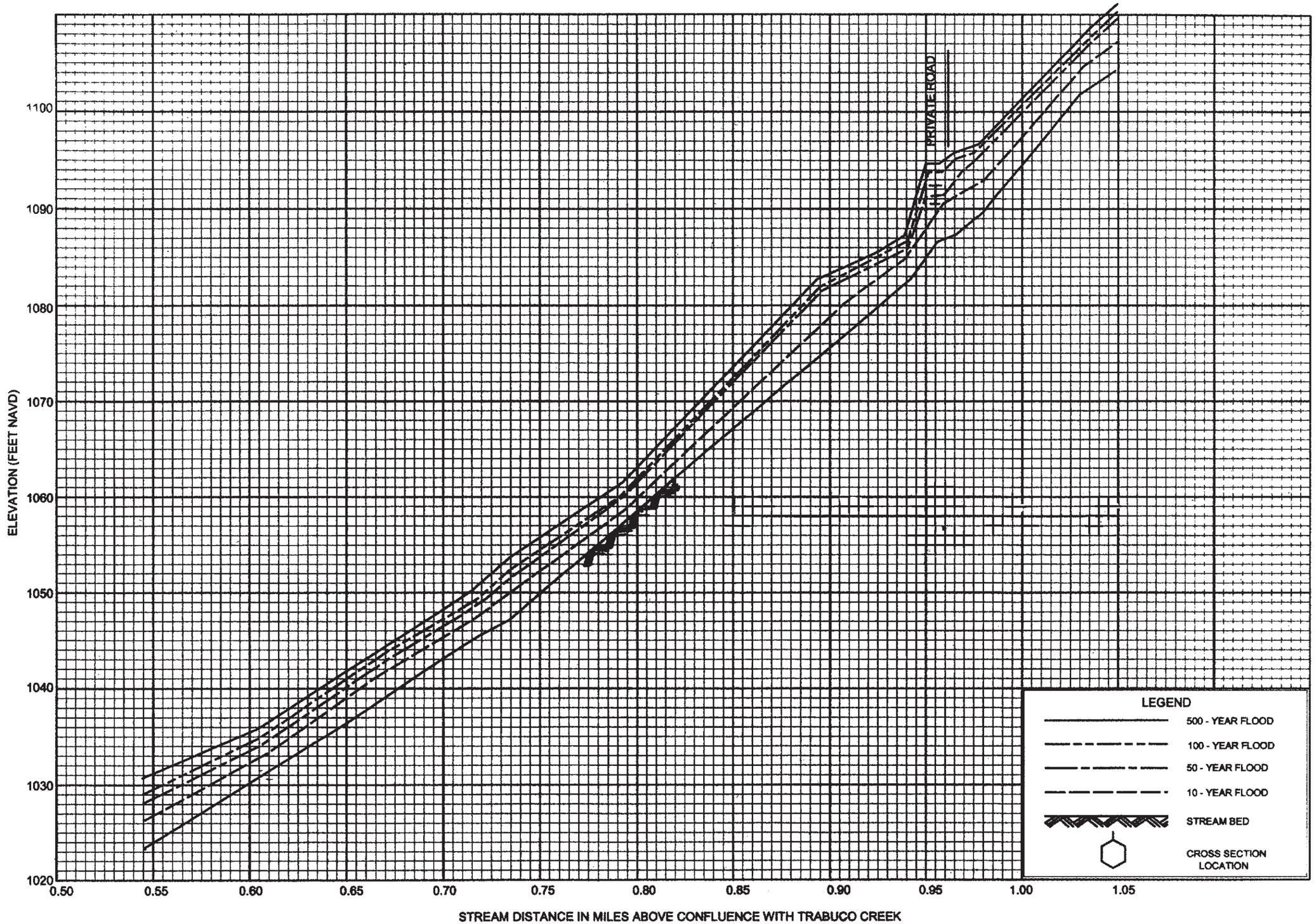
FLOOD PROFILES

HICKEY CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

60P

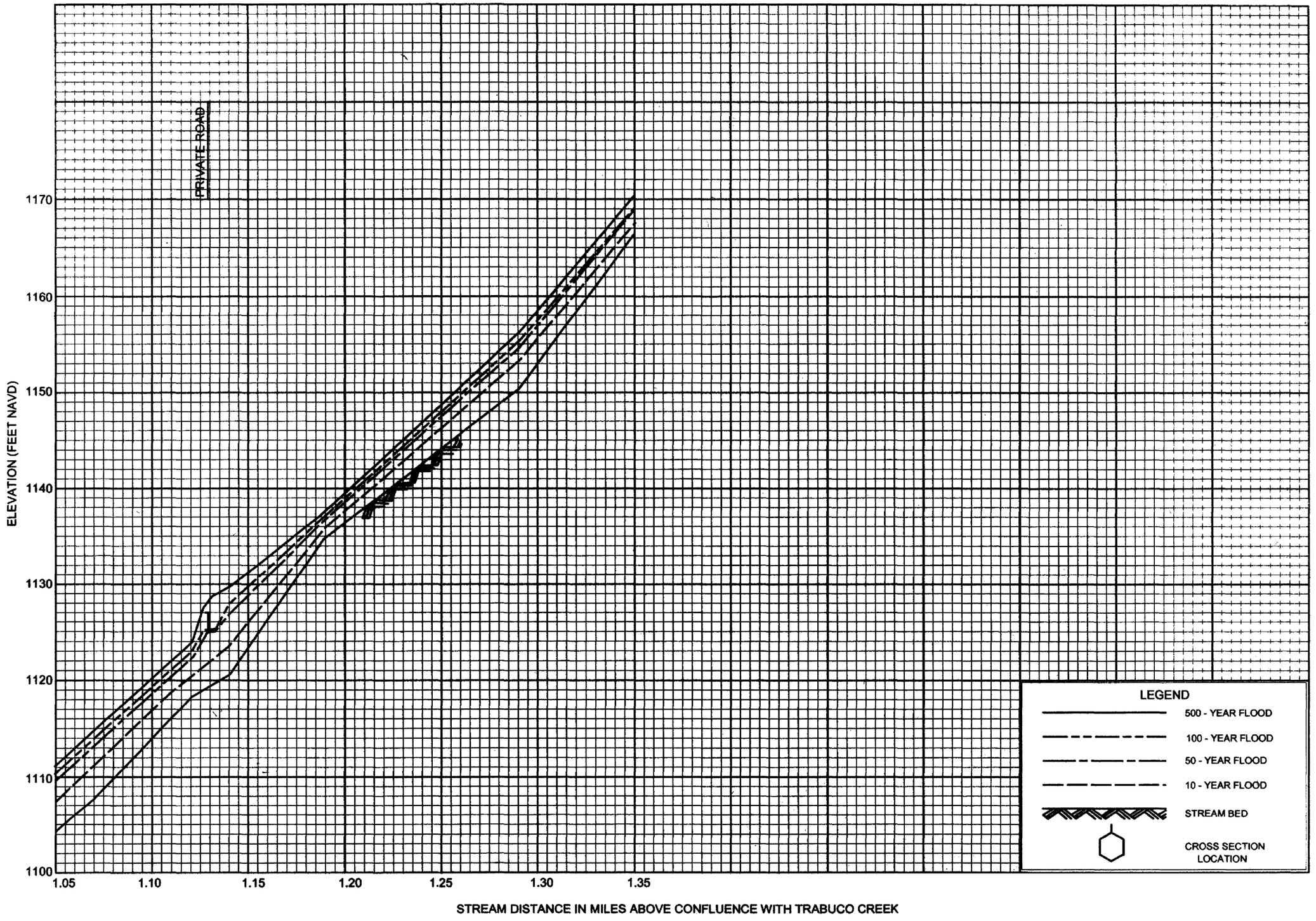


FLOOD PROFILES

HICKEY CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS



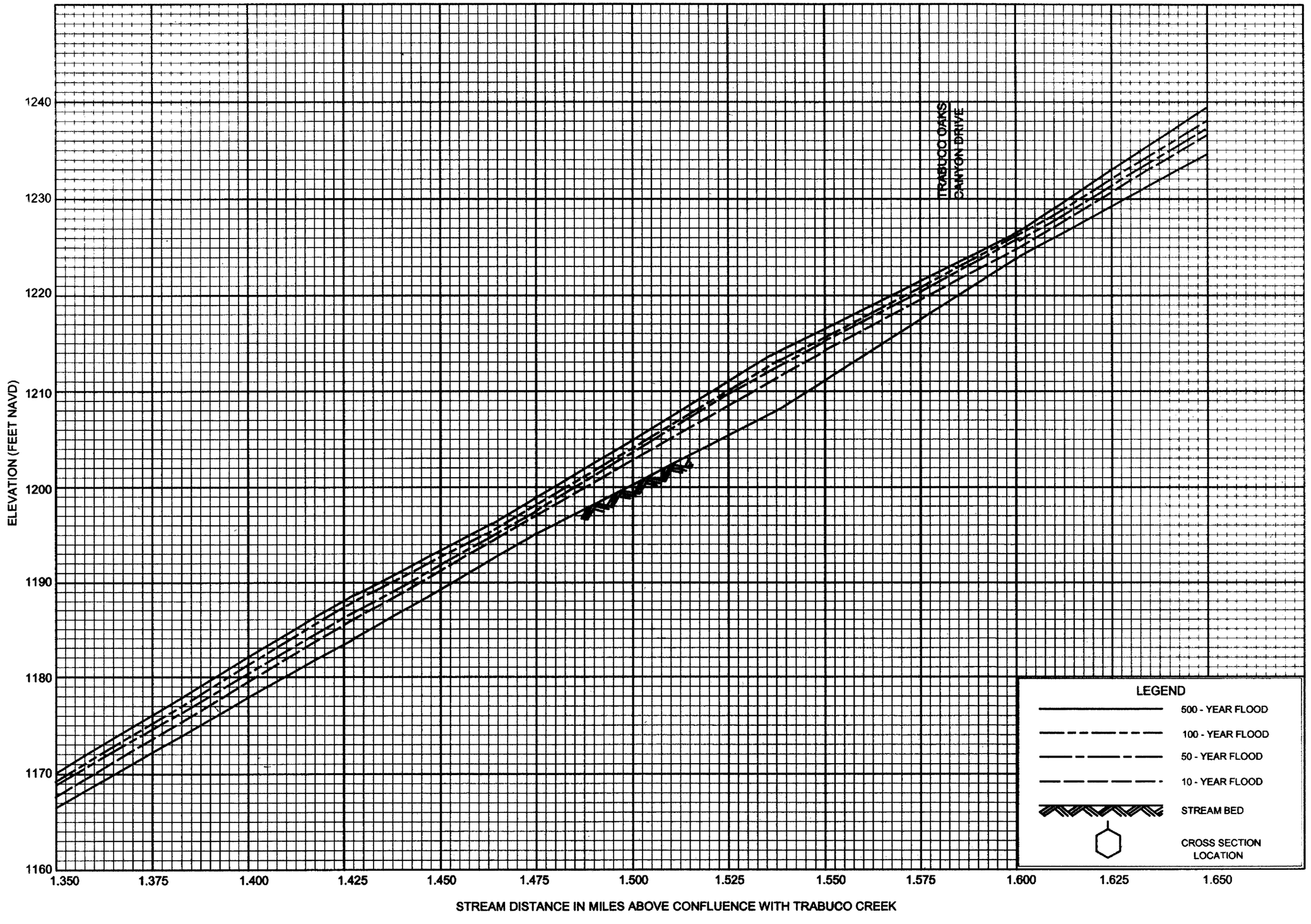
FLOOD PROFILES

HICKEY CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

62P



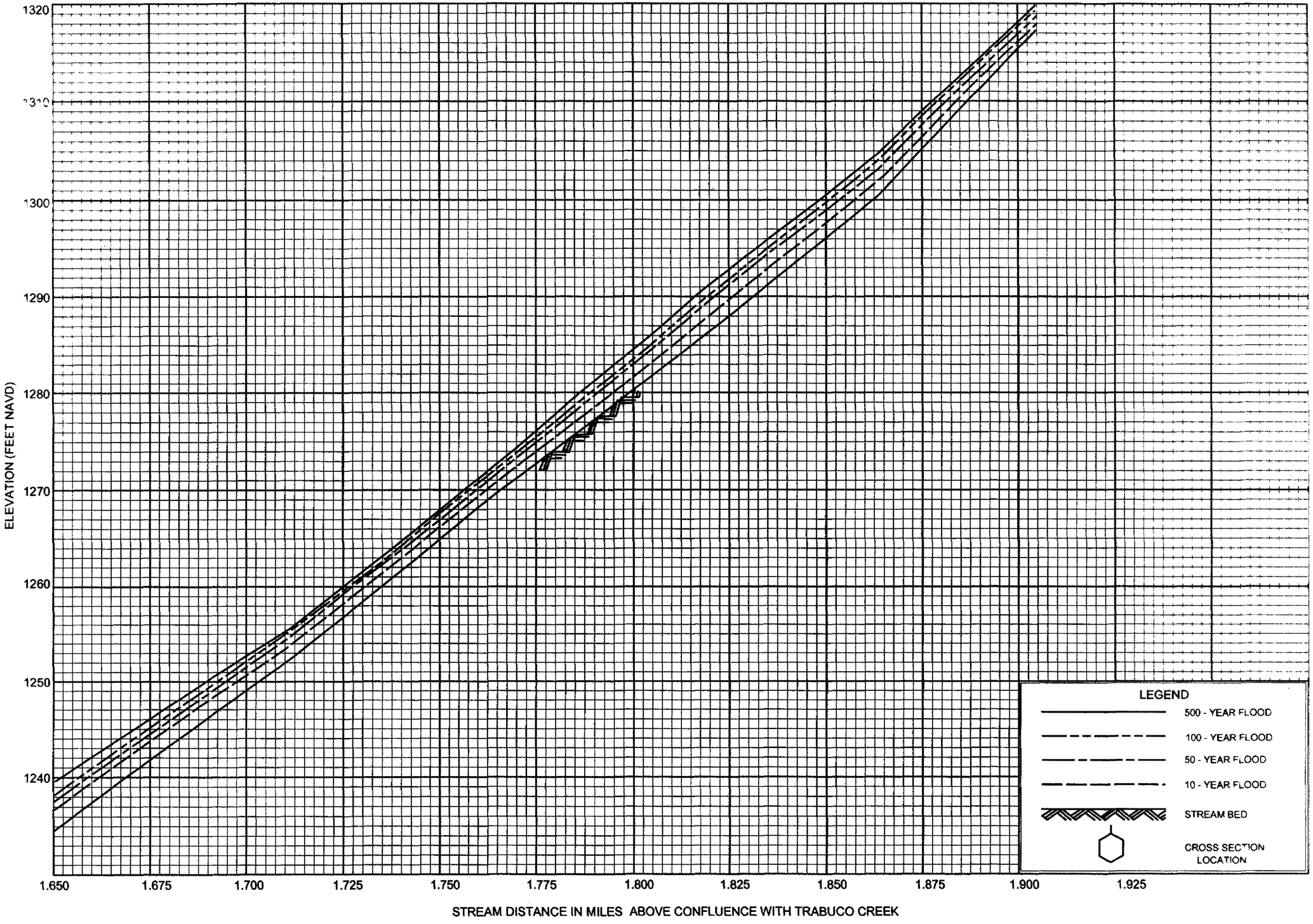
FLOOD PROFILES

HICKEY CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

63P



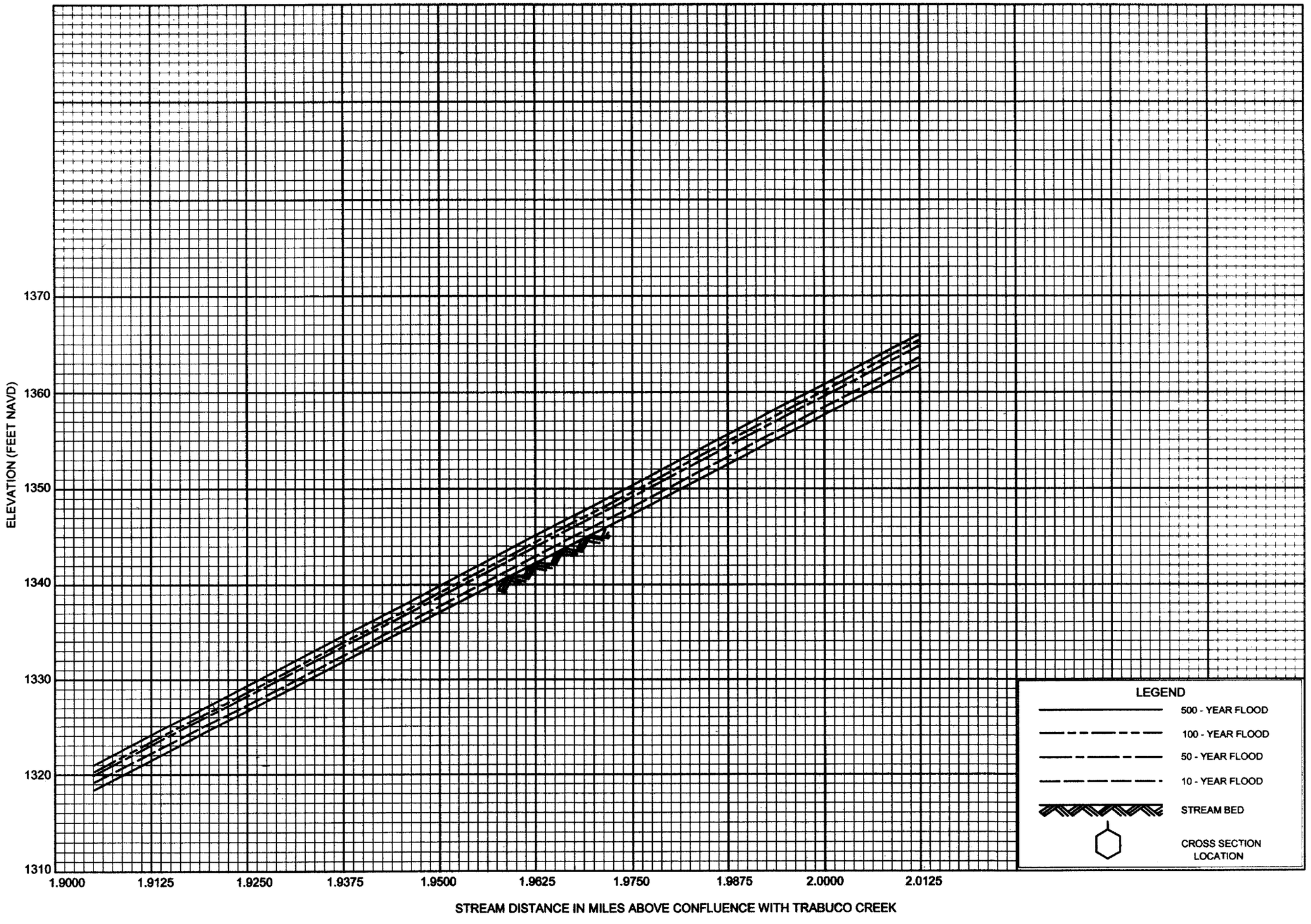
FLOOD PROFILES

HICKEY CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

64P



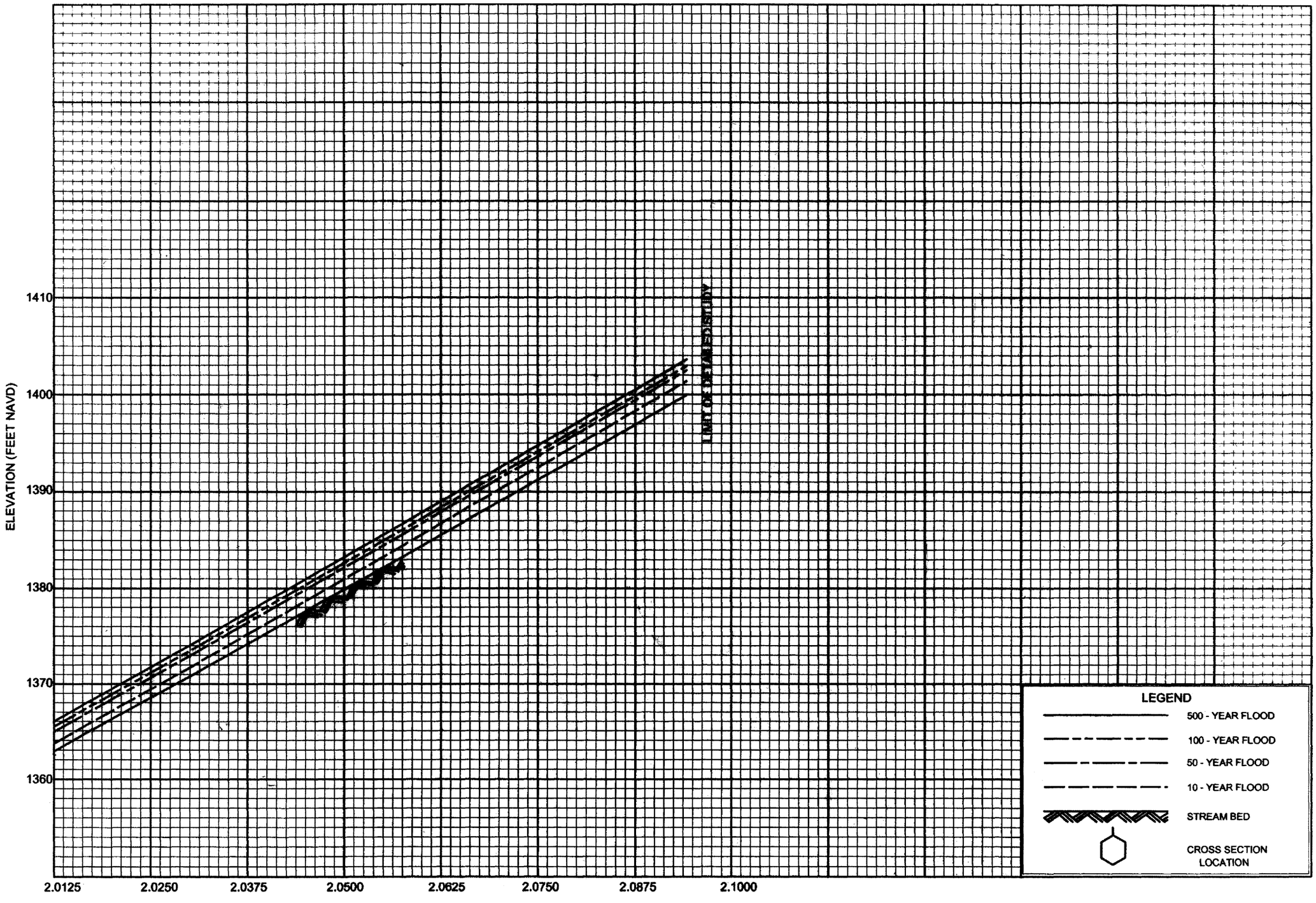
FLOOD PROFILES

HICKEY CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

65P



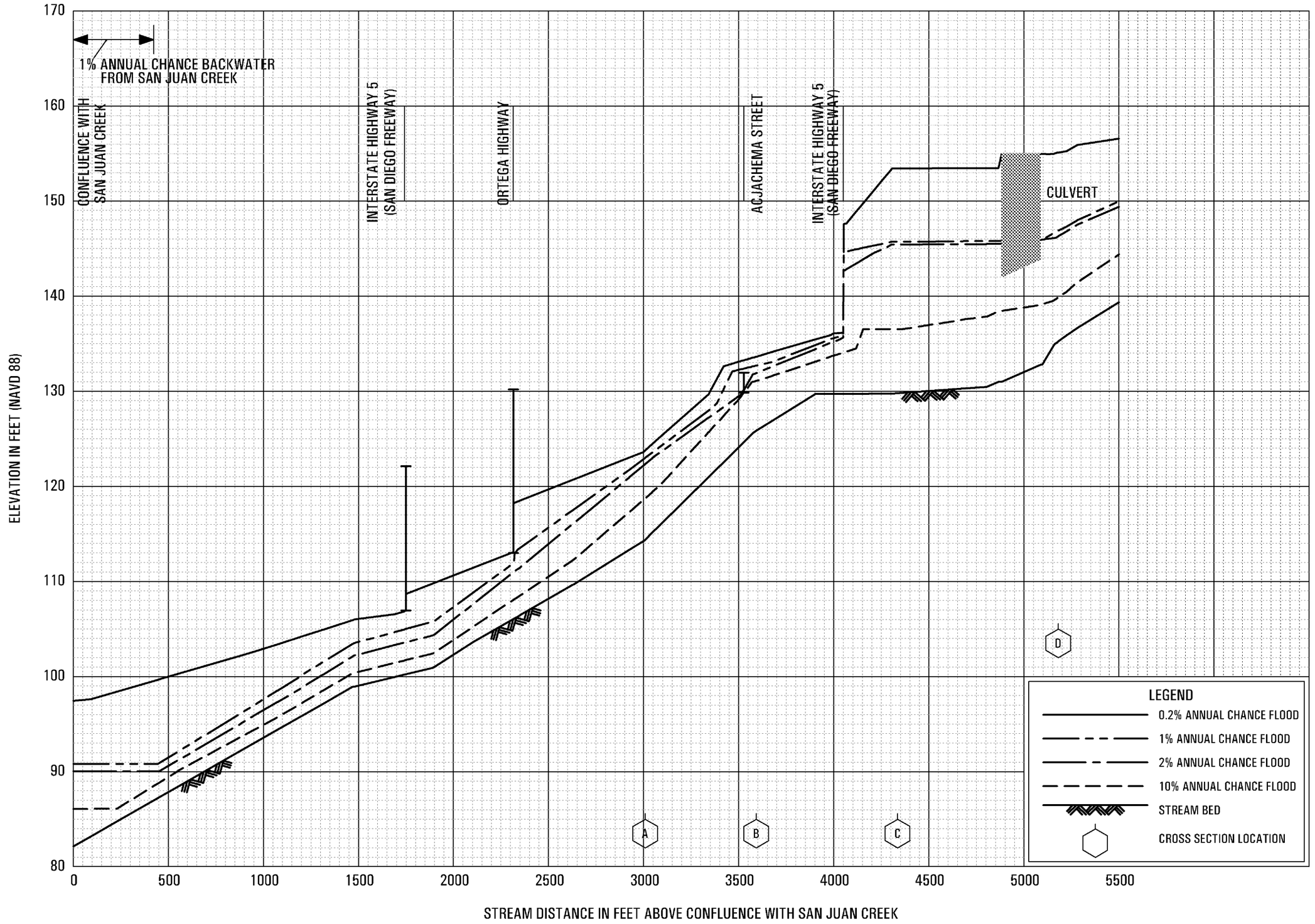
FLOOD PROFILES

HICKEY CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

66P



FLOOD PROFILES

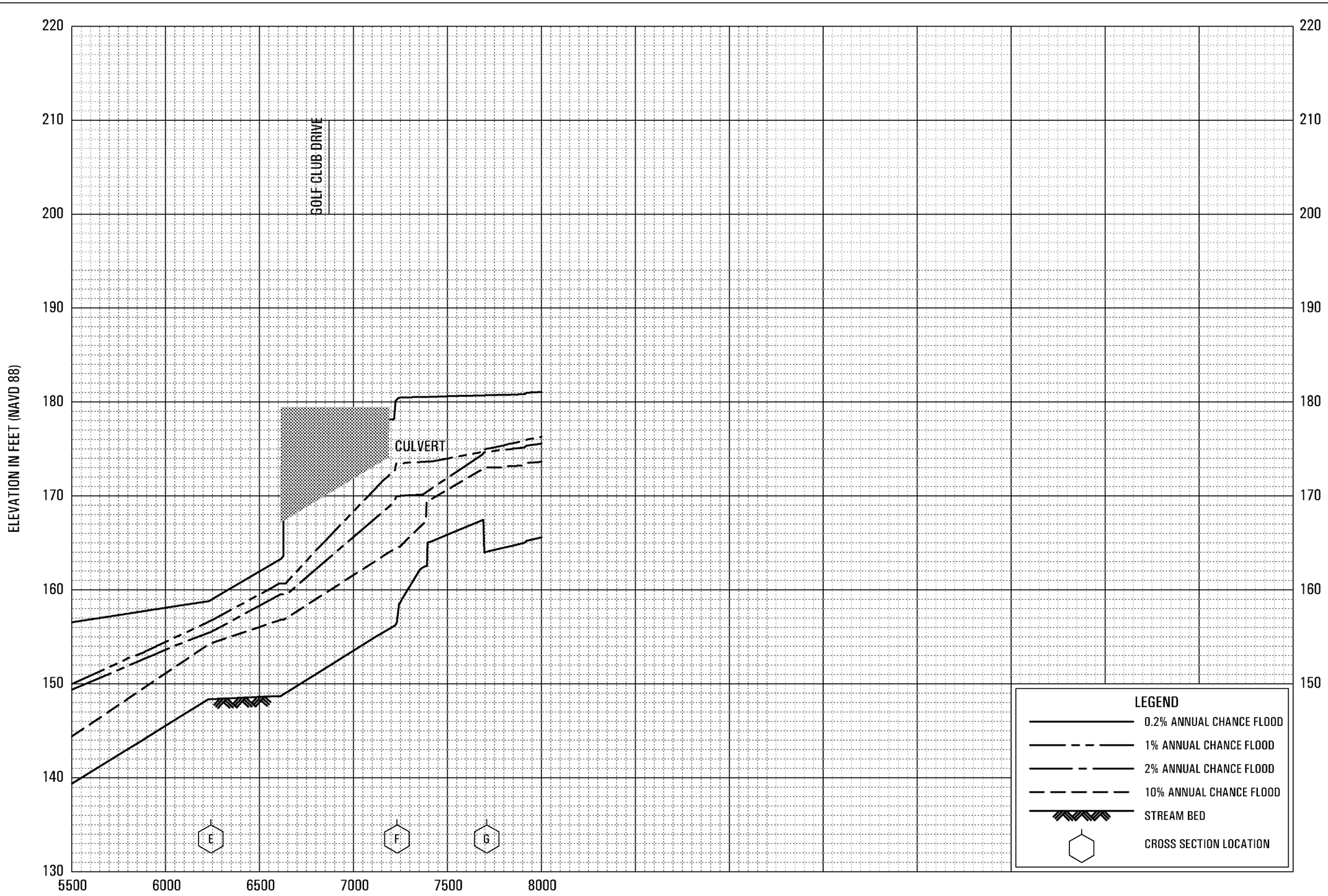
HORNO CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND INCORPORATED AREAS

67P



FLOOD PROFILES

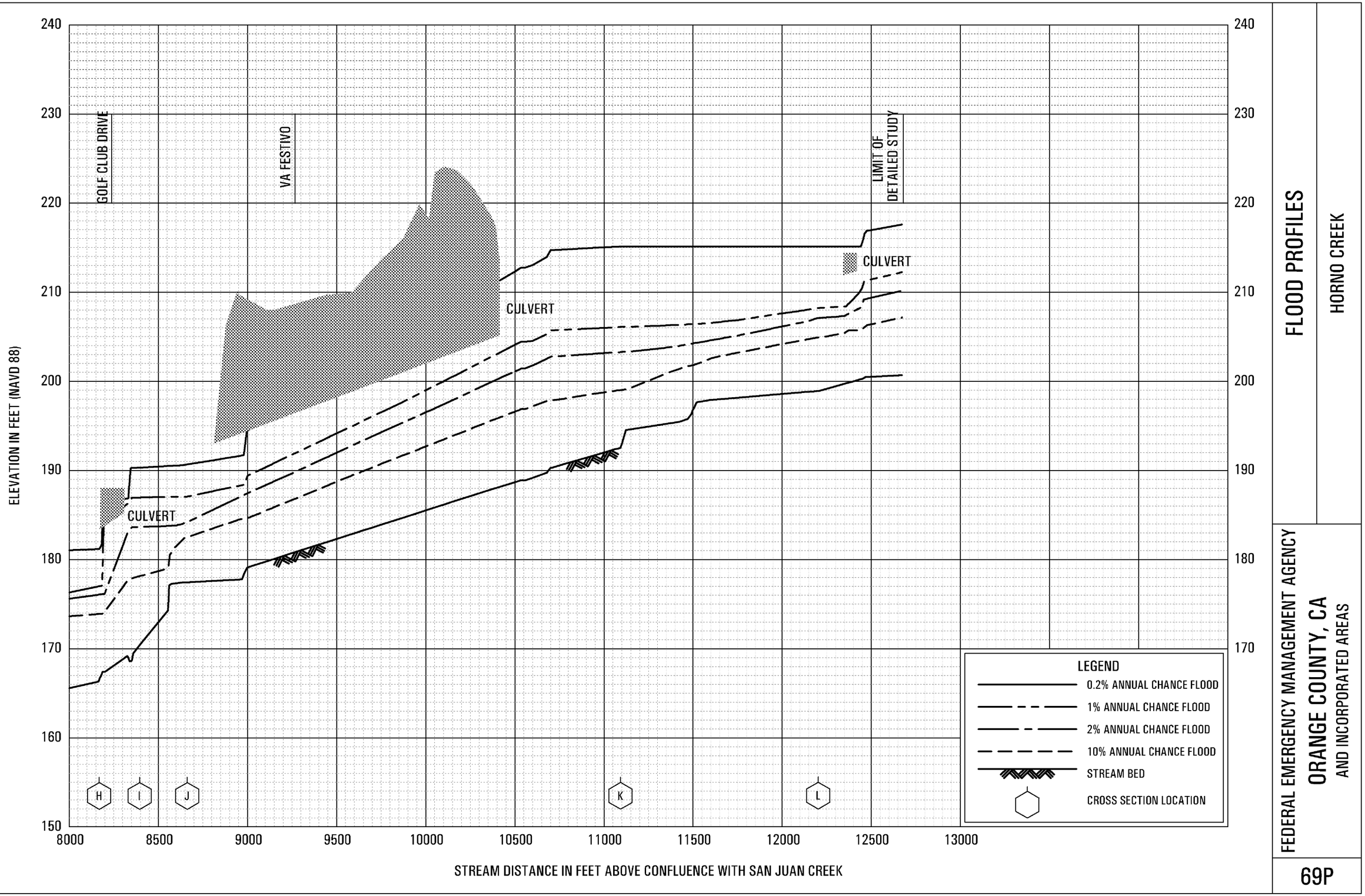
HORNO CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND INCORPORATED AREAS

68P



FLOOD PROFILES

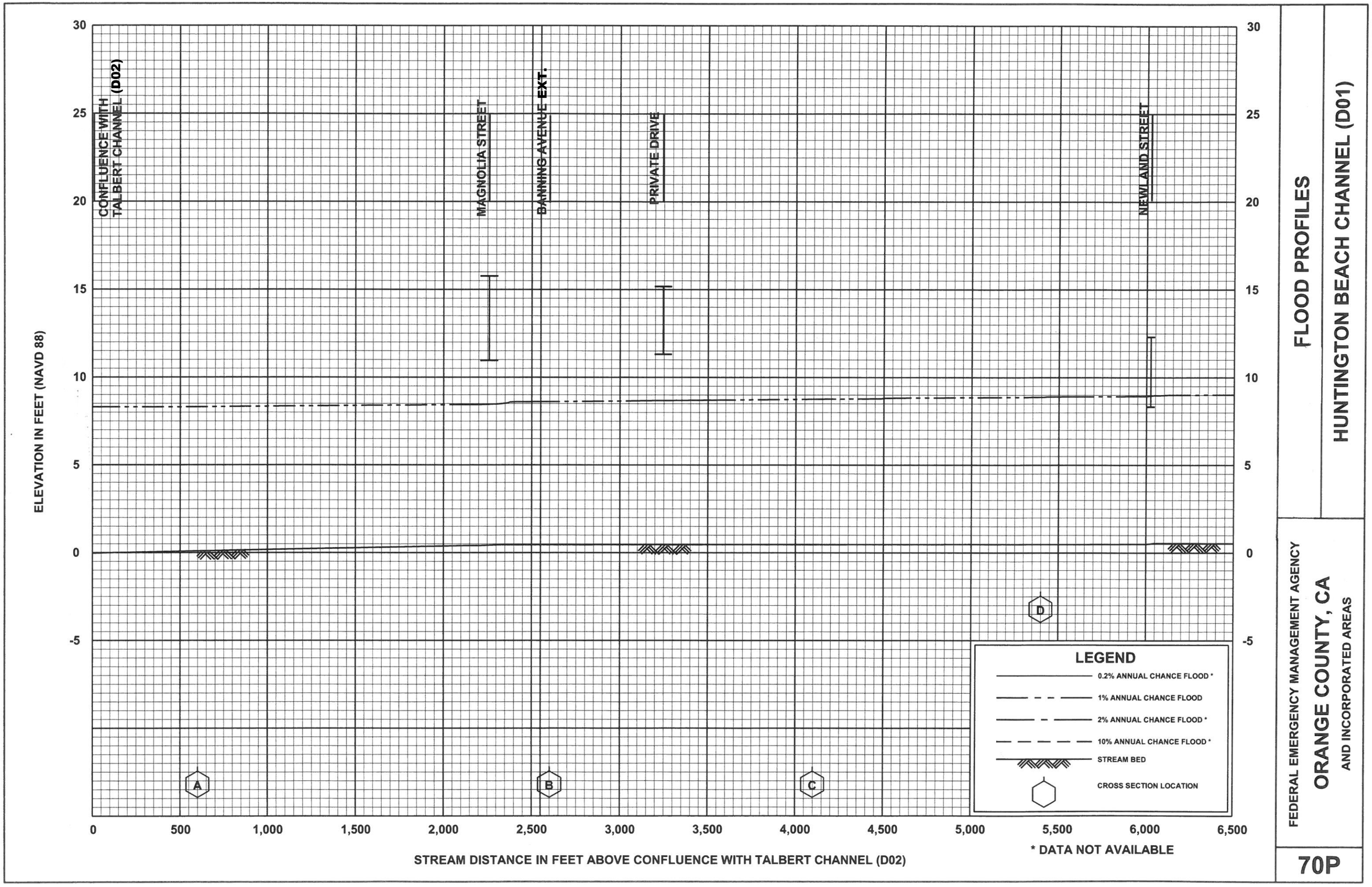
HORNO CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND INCORPORATED AREAS

69P



FLOOD PROFILES

HUNTINGTON BEACH CHANNEL (D01)

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)

30
25
20
15
10
5
0
-5

ATLANTA AVENUE

E
F
G

6,500 7,000 7,500 8,000 8,500 9,000 9,500 10,000 10,500 11,000 11,500 12,000 12,500 13,000

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH TALBERT CHANNEL (D02)

LEGEND

- 0.2% ANNUAL CHANCE FLOOD *
- 1% ANNUAL CHANCE FLOOD
- 2% ANNUAL CHANCE FLOOD *
- 10% ANNUAL CHANCE FLOOD *
- STREAM BED
- CROSS SECTION LOCATION

* DATA NOT AVAILABLE

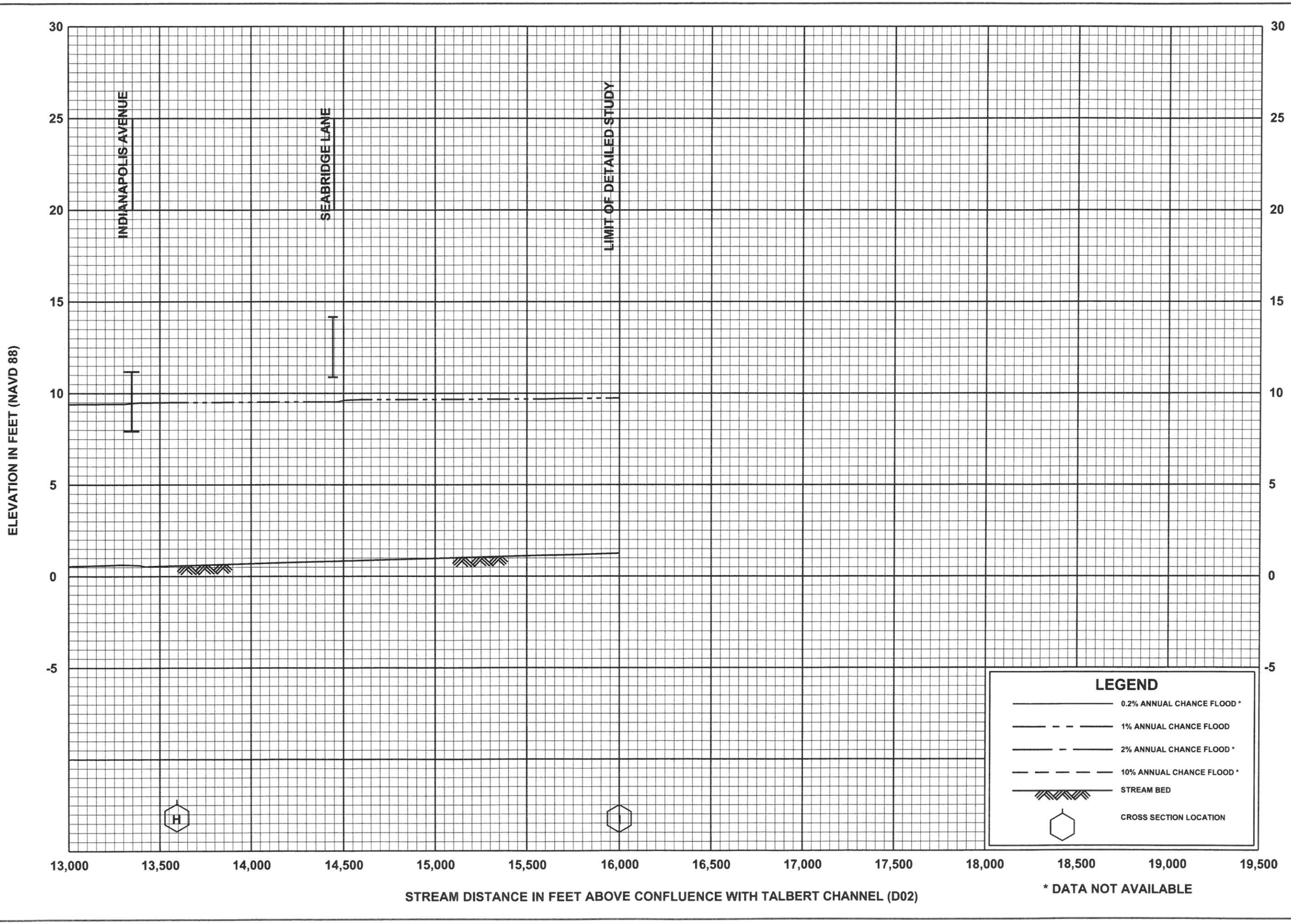
FLOOD PROFILES

HUNTINGTON BEACH CHANNEL (D01)

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND INCORPORATED AREAS



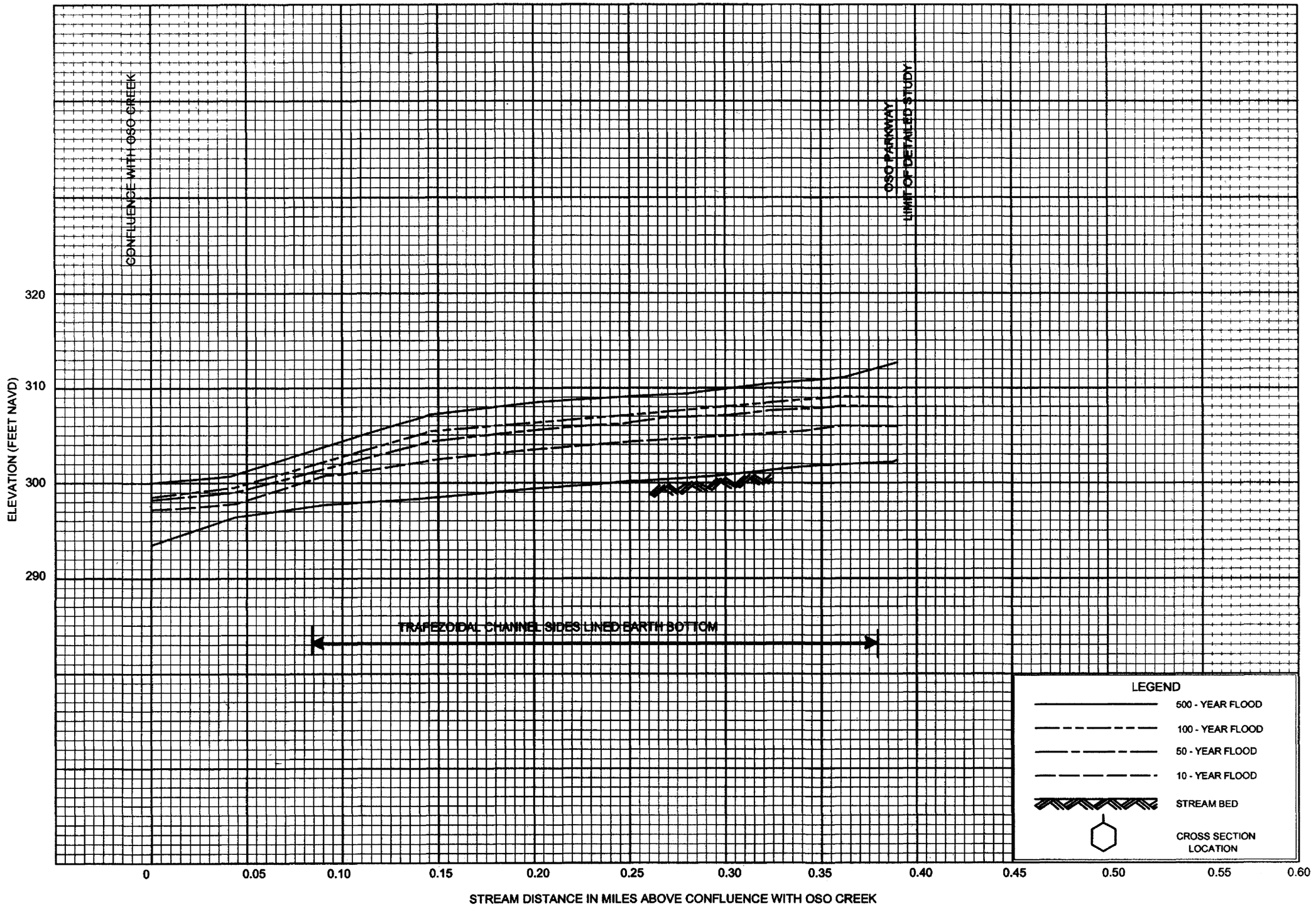
FLOOD PROFILES

HUNTINGTON BEACH CHANNEL (D01)

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND INCORPORATED AREAS



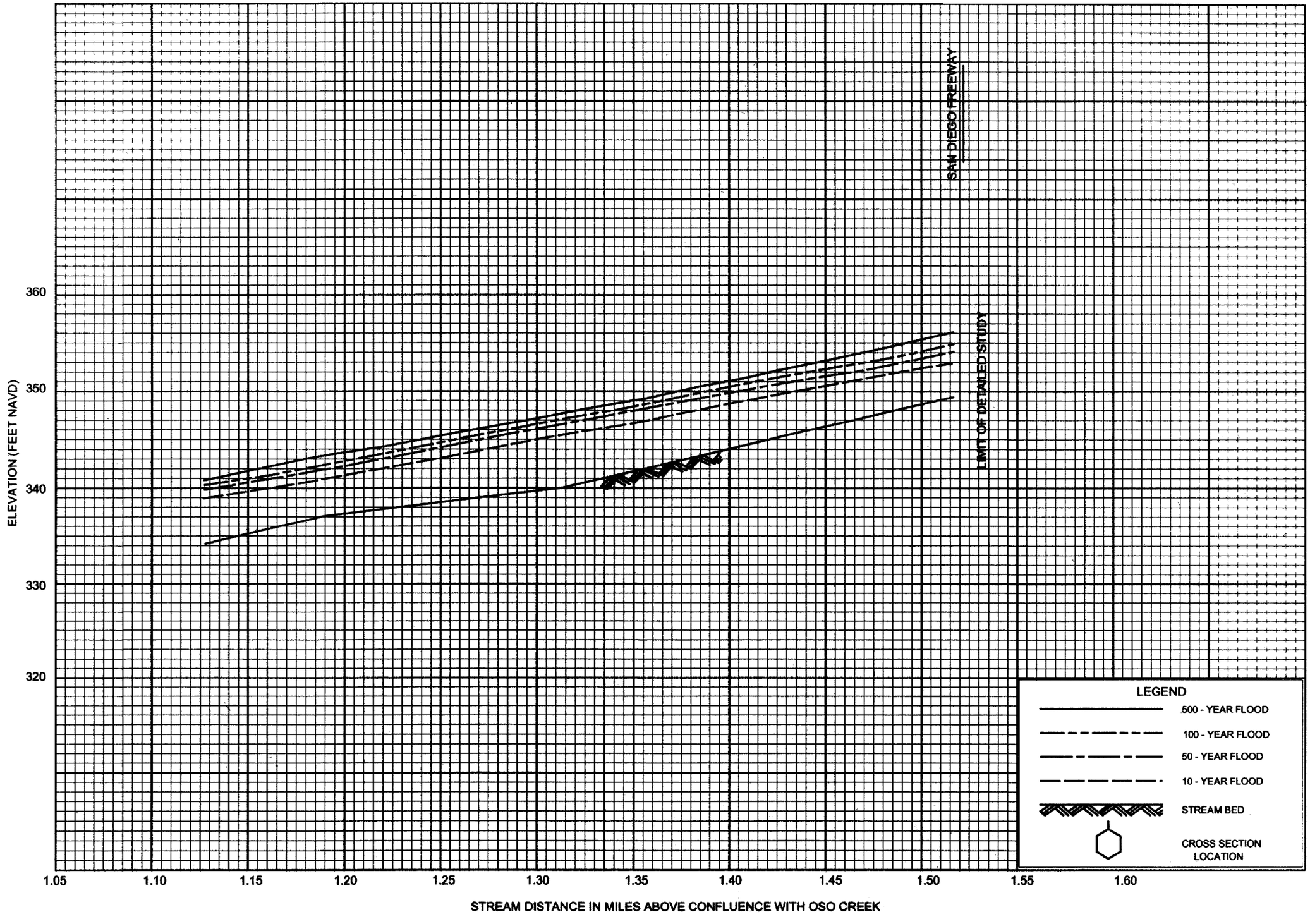
FLOOD PROFILES

LA PAZ CHANNEL

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

73P



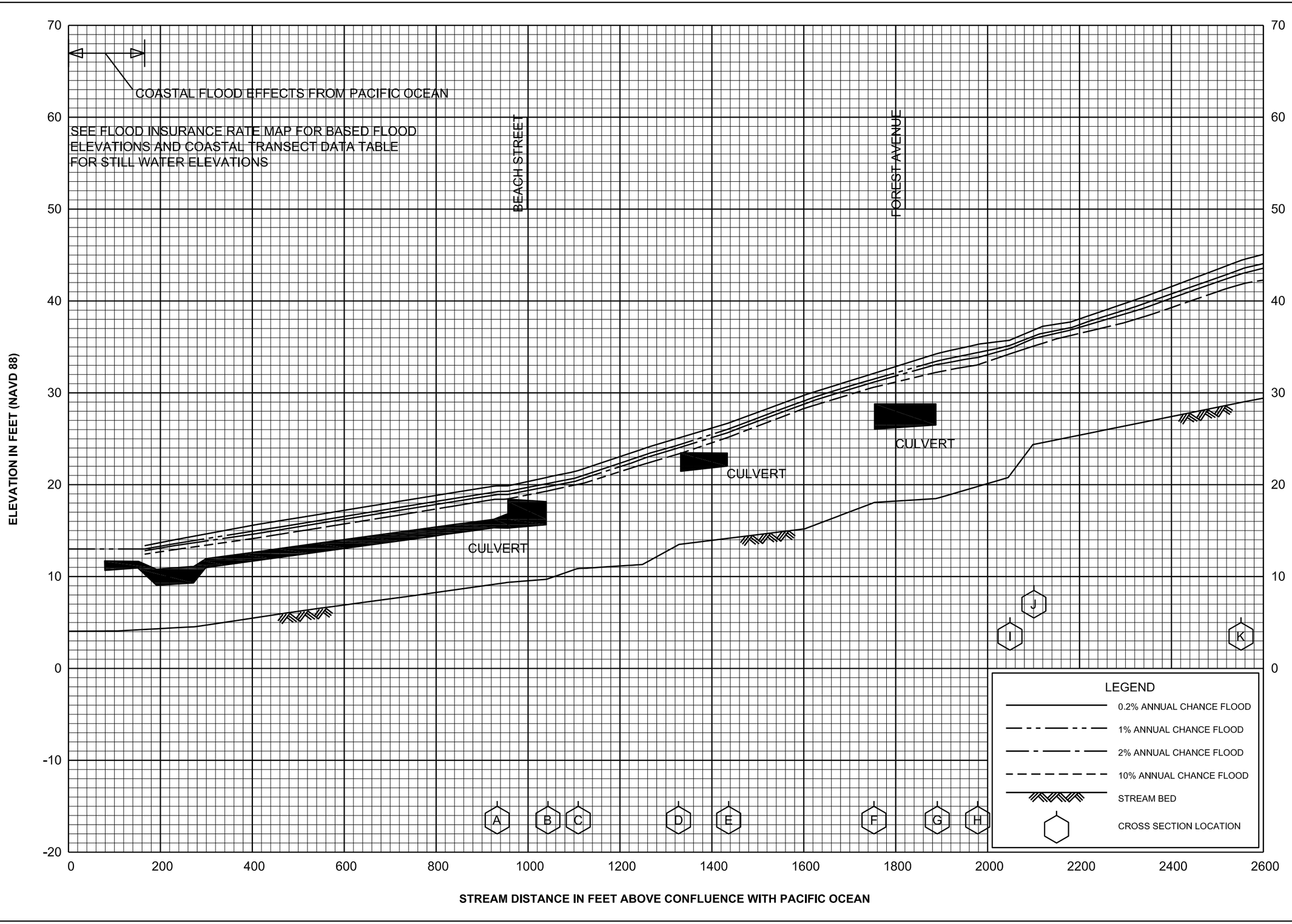
FLOOD PROFILES

LA PAZ CHANNEL

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

74P



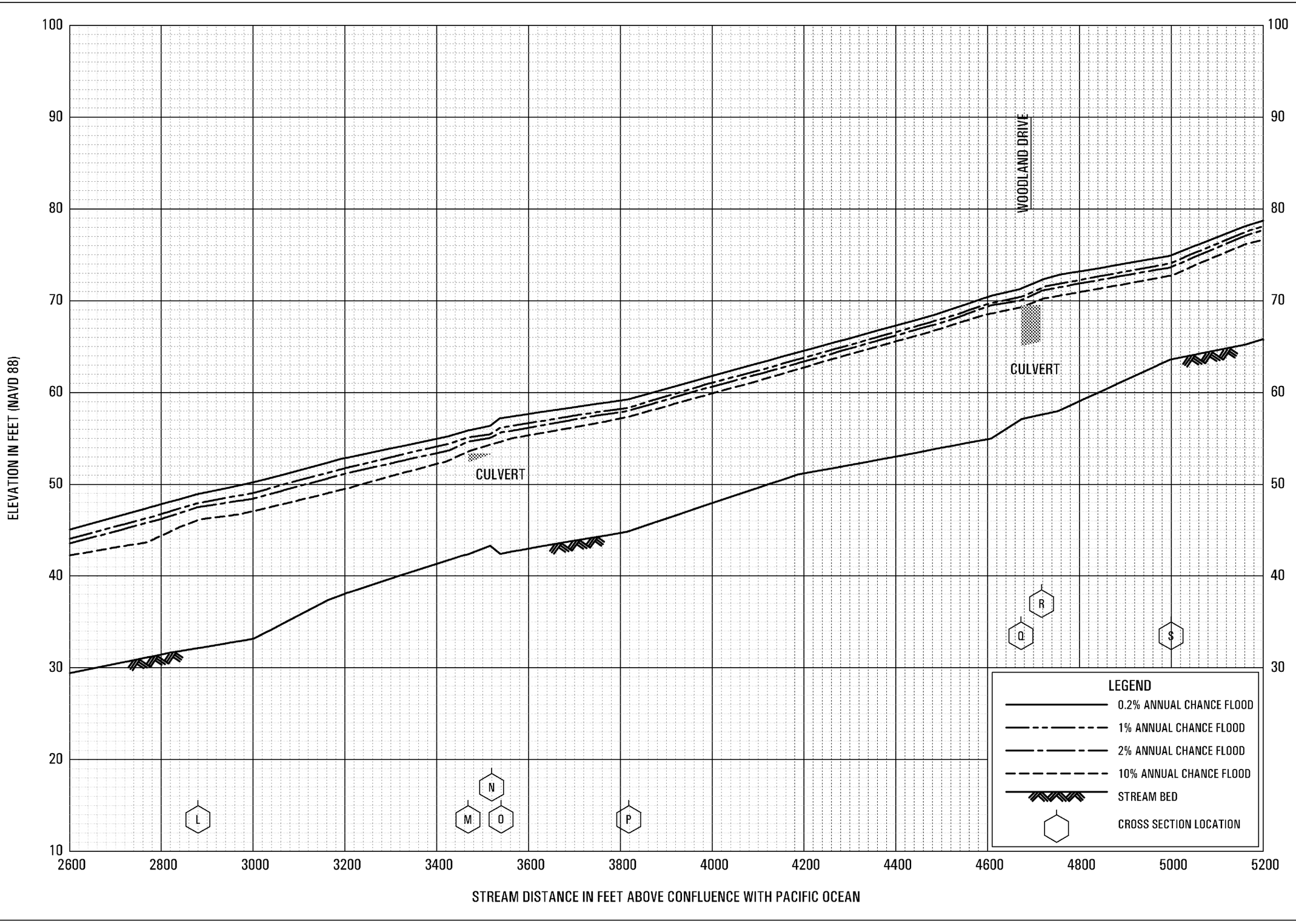
FLOOD PROFILES

LAGUNA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND UNINCORPORATED AREAS



FLOOD PROFILES

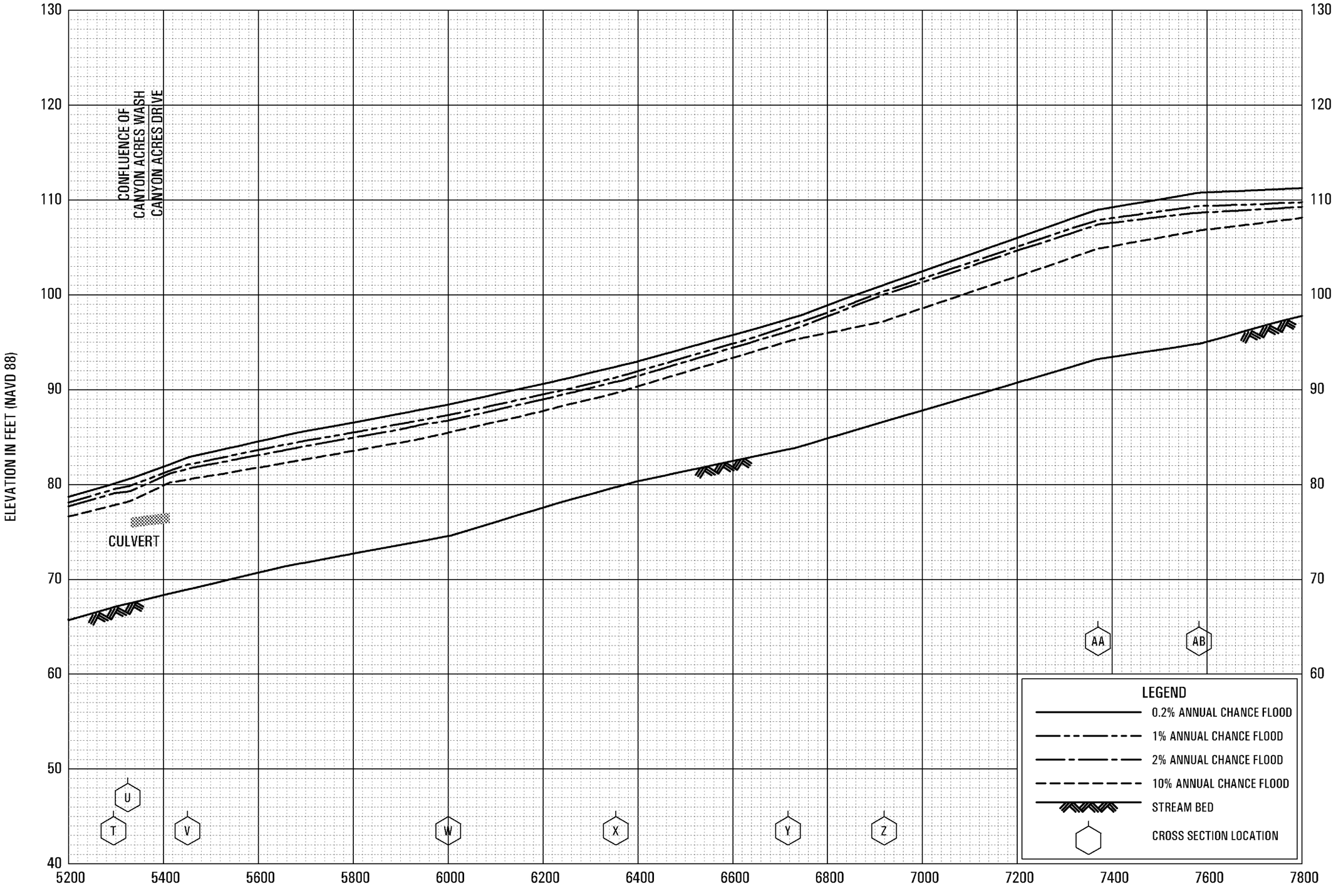
LAGUNA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND UNINCORPORATED AREAS

76P



FLOOD PROFILES

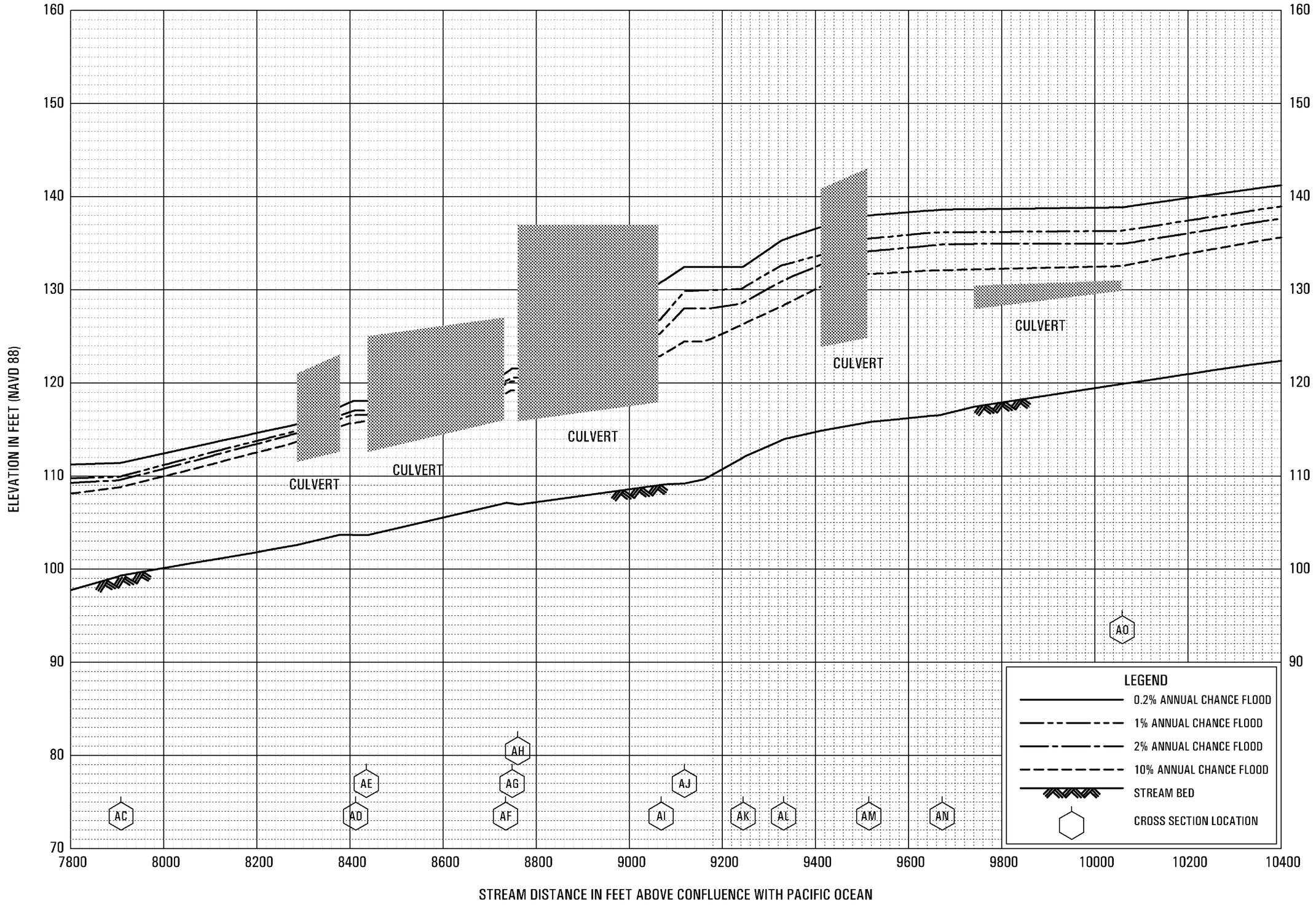
LAGUNA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND UNINCORPORATED AREAS

77P



FLOOD PROFILES

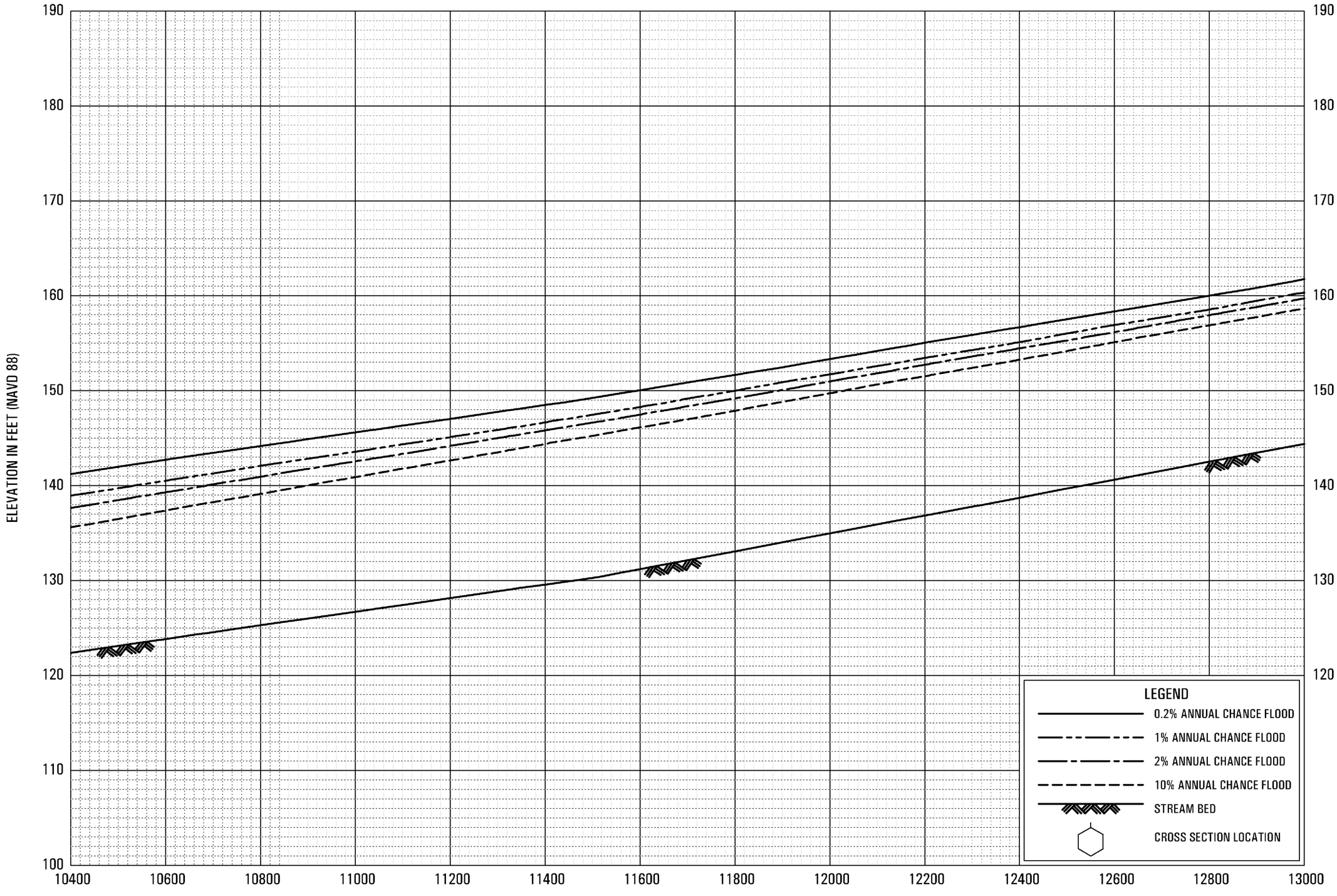
LAGUNA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND UNINCORPORATED AREAS

78P



FLOOD PROFILES

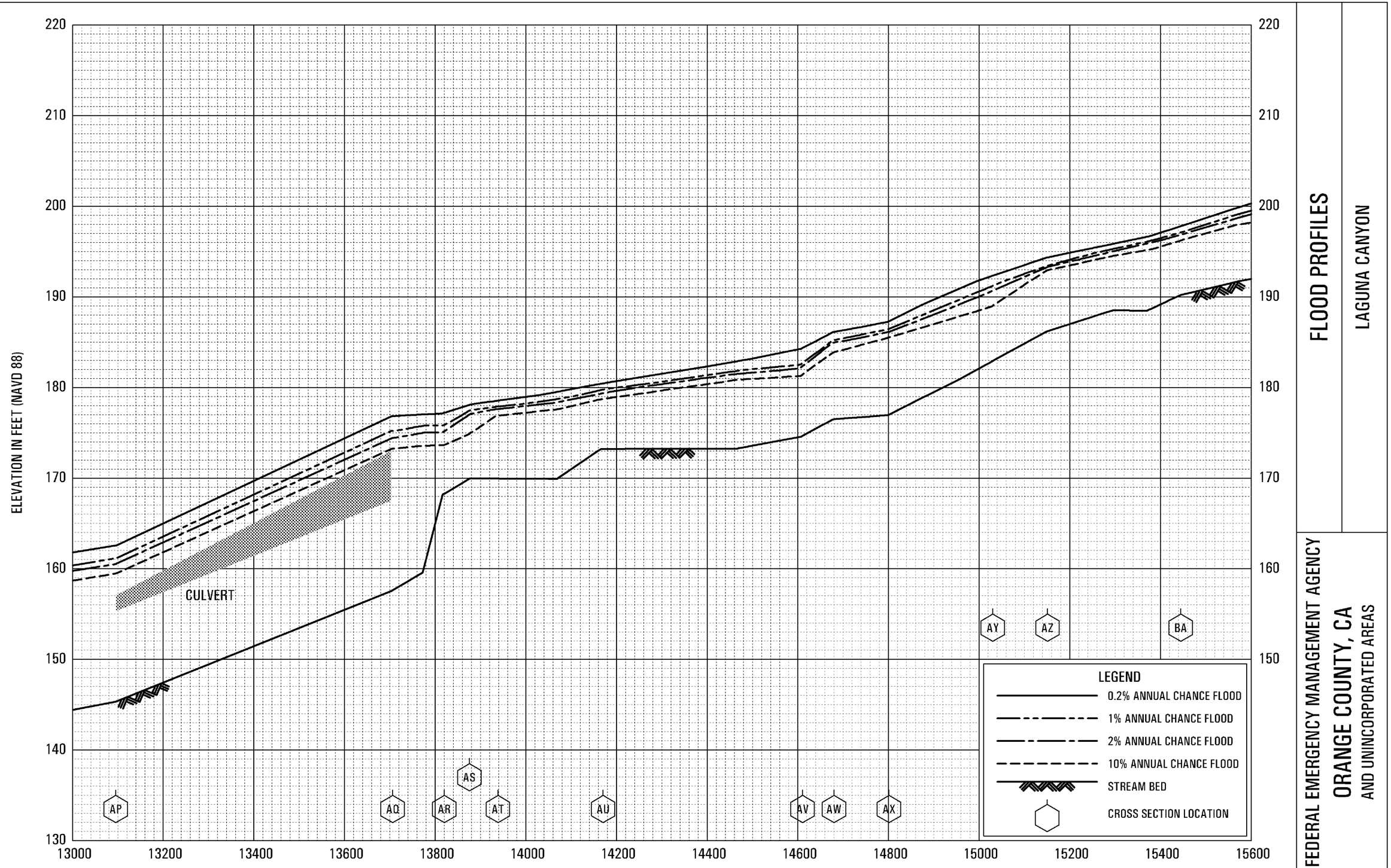
LAGUNA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND UNINCORPORATED AREAS

79P



FLOOD PROFILES

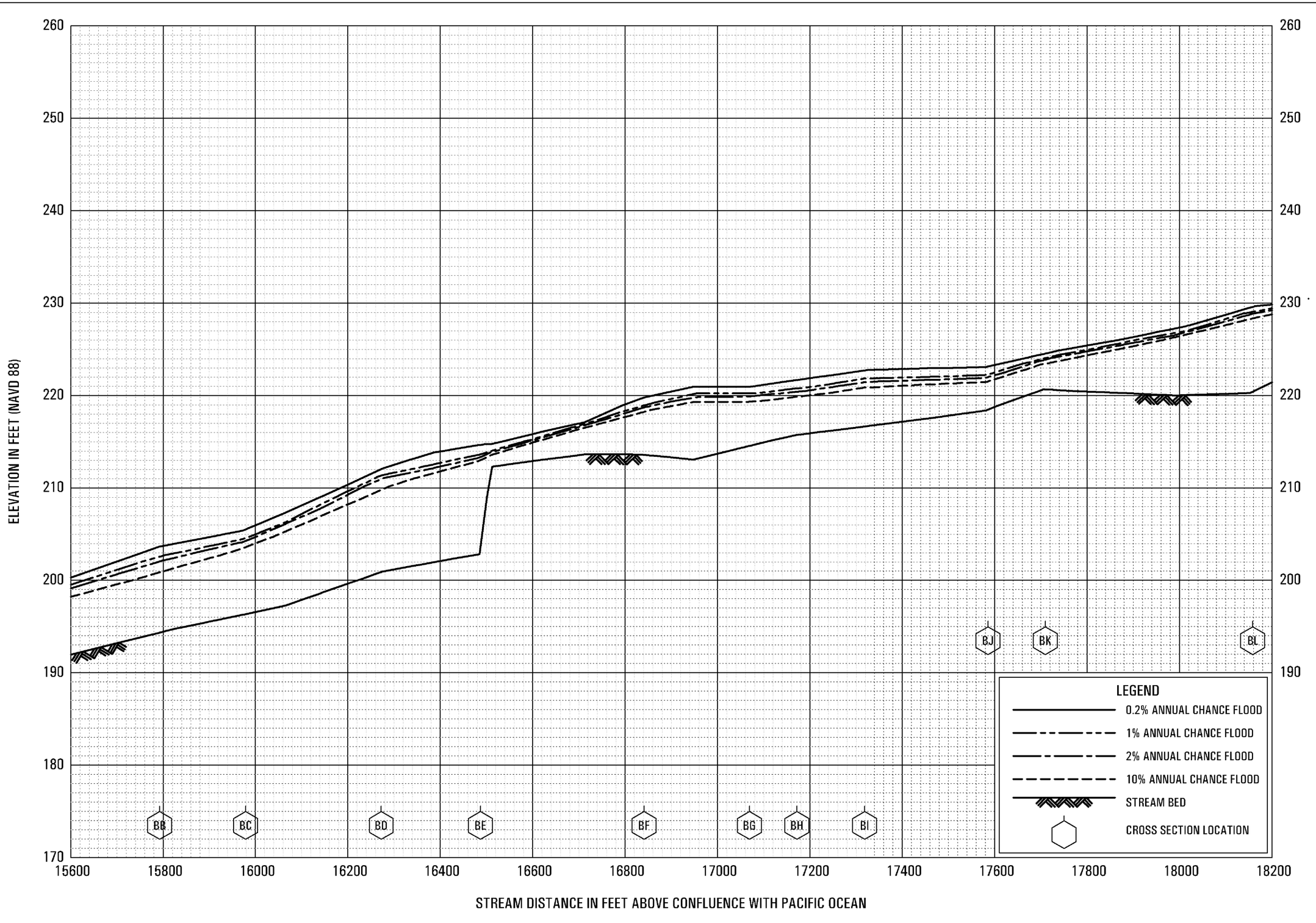
LAGUNA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND UNINCORPORATED AREAS

80P



FLOOD PROFILES

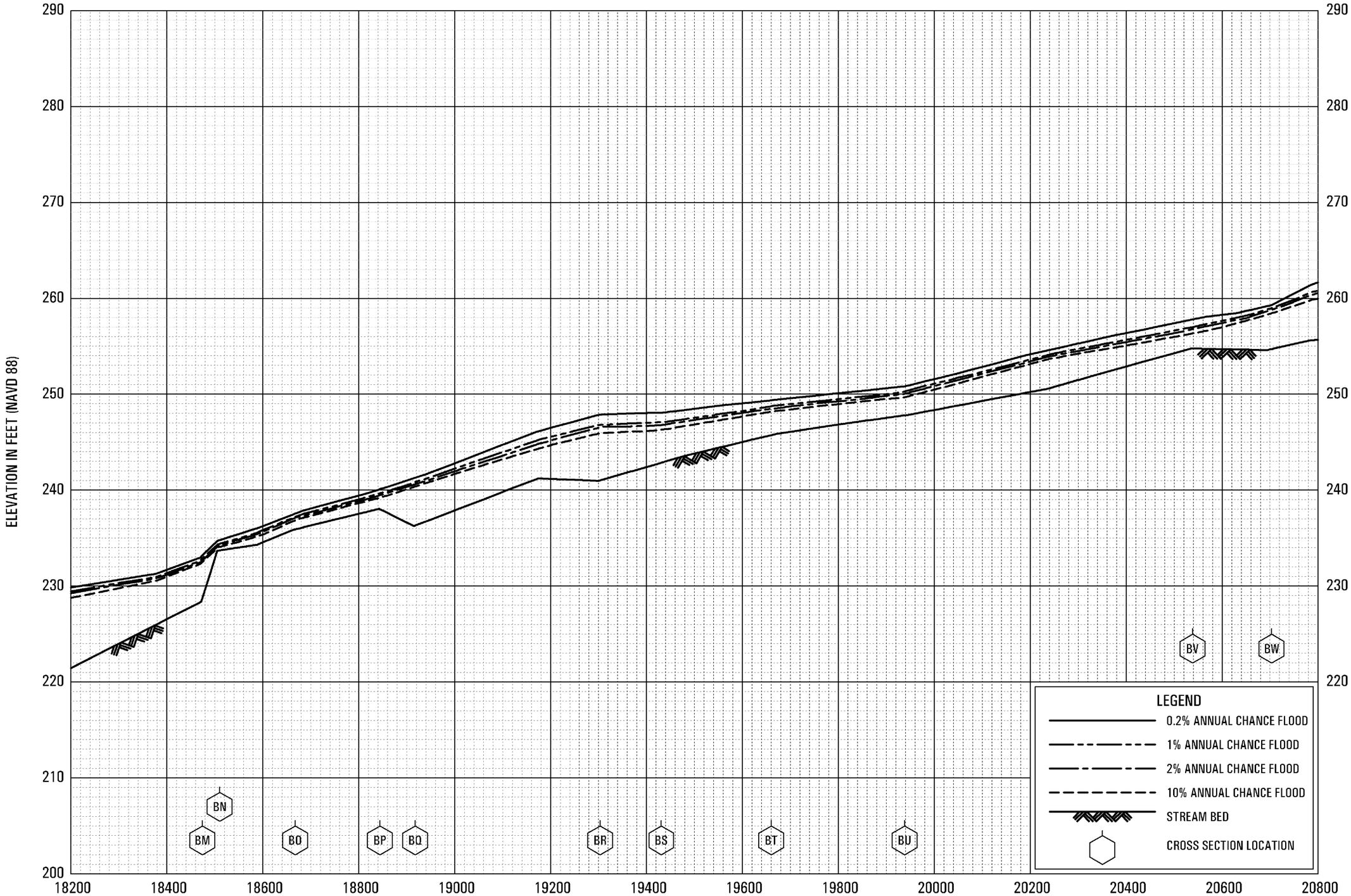
LAGUNA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND UNINCORPORATED AREAS

81P



FLOOD PROFILES

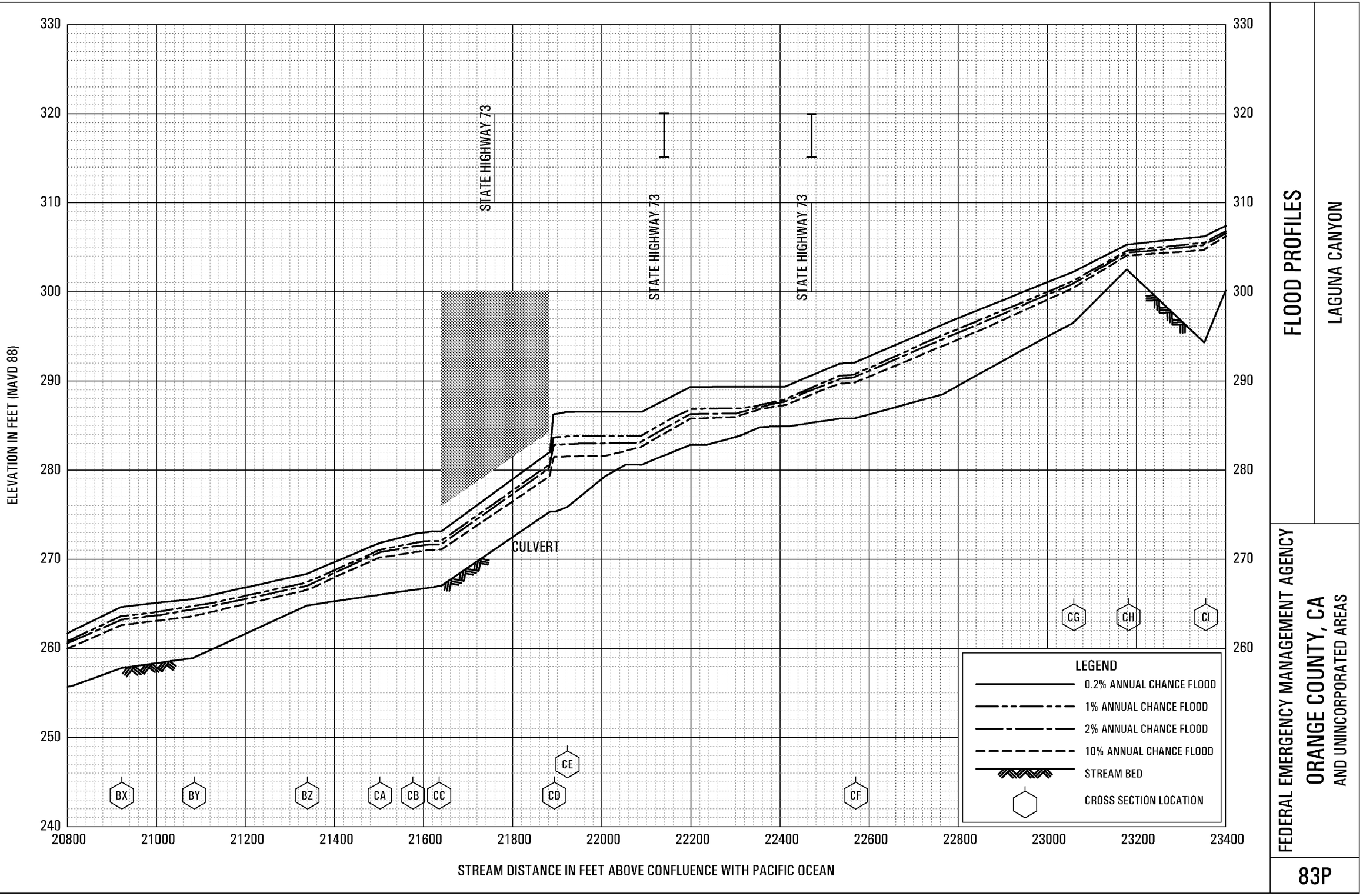
LAGUNA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND UNINCORPORATED AREAS

82P



FLOOD PROFILES

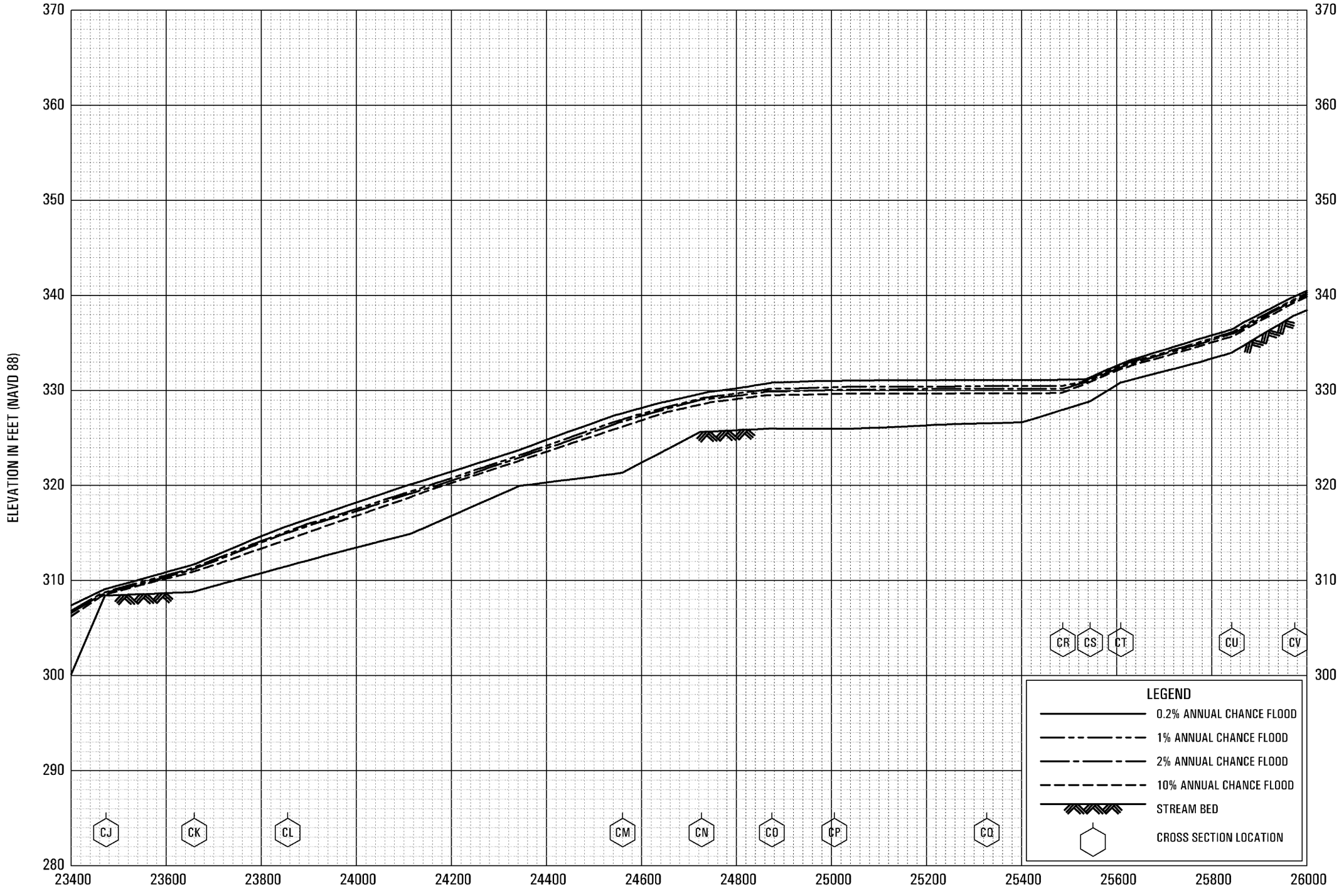
LAGUNA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND UNINCORPORATED AREAS

83P

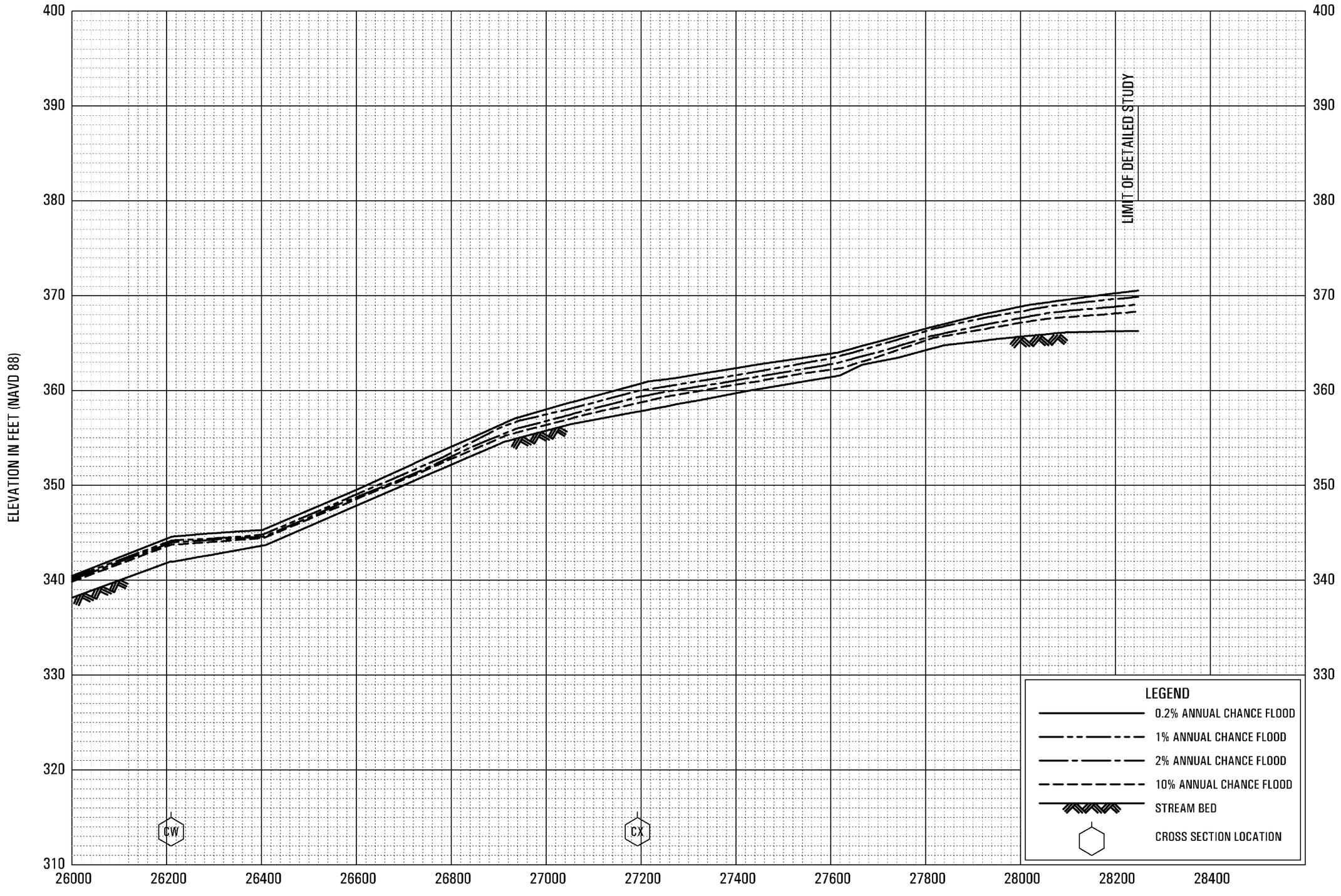


FLOOD PROFILES

LAGUNA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY
ORANGE COUNTY, CA
AND UNINCORPORATED AREAS

84P



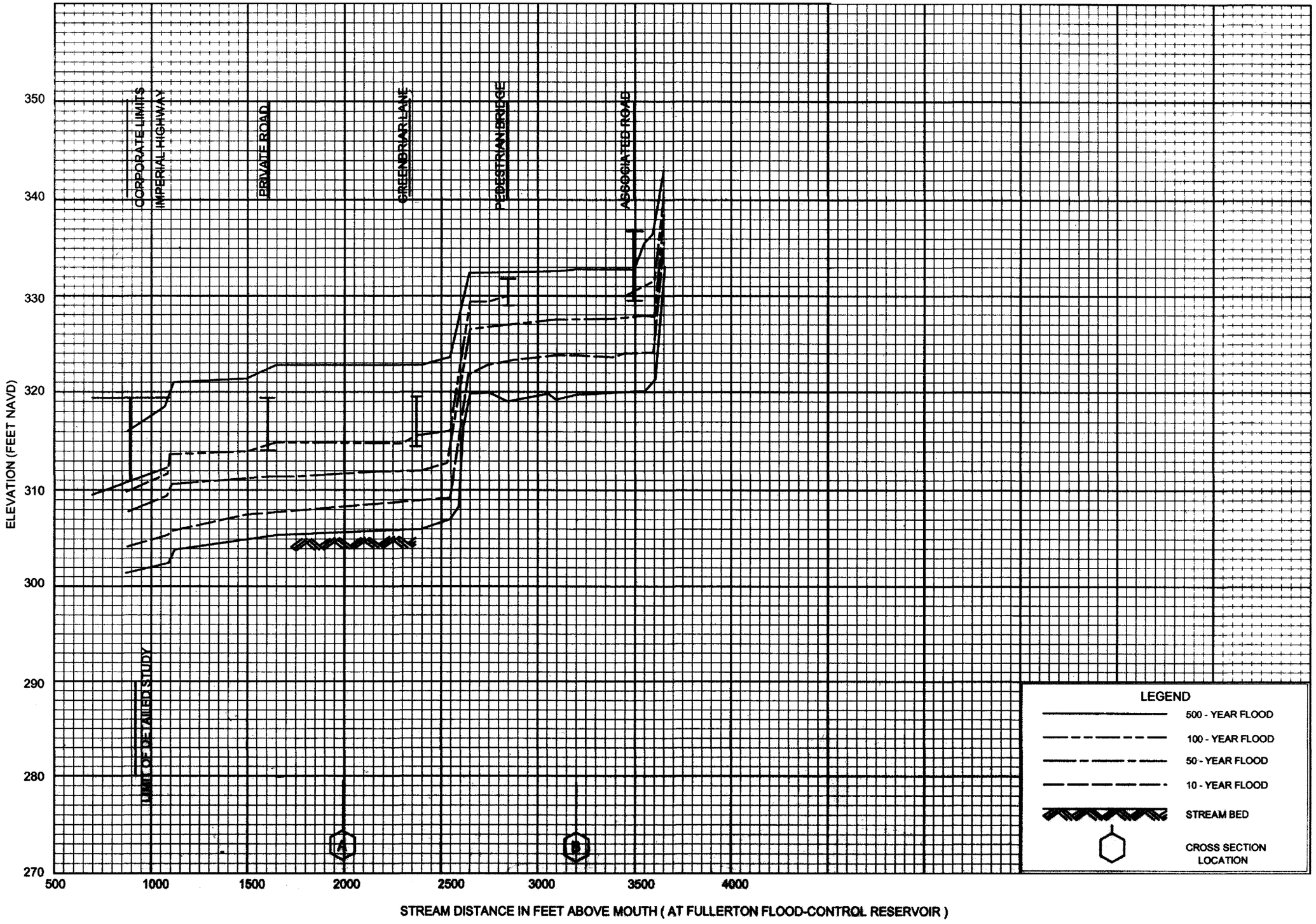
FLOOD PROFILES

LAGUNA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND UNINCORPORATED AREAS



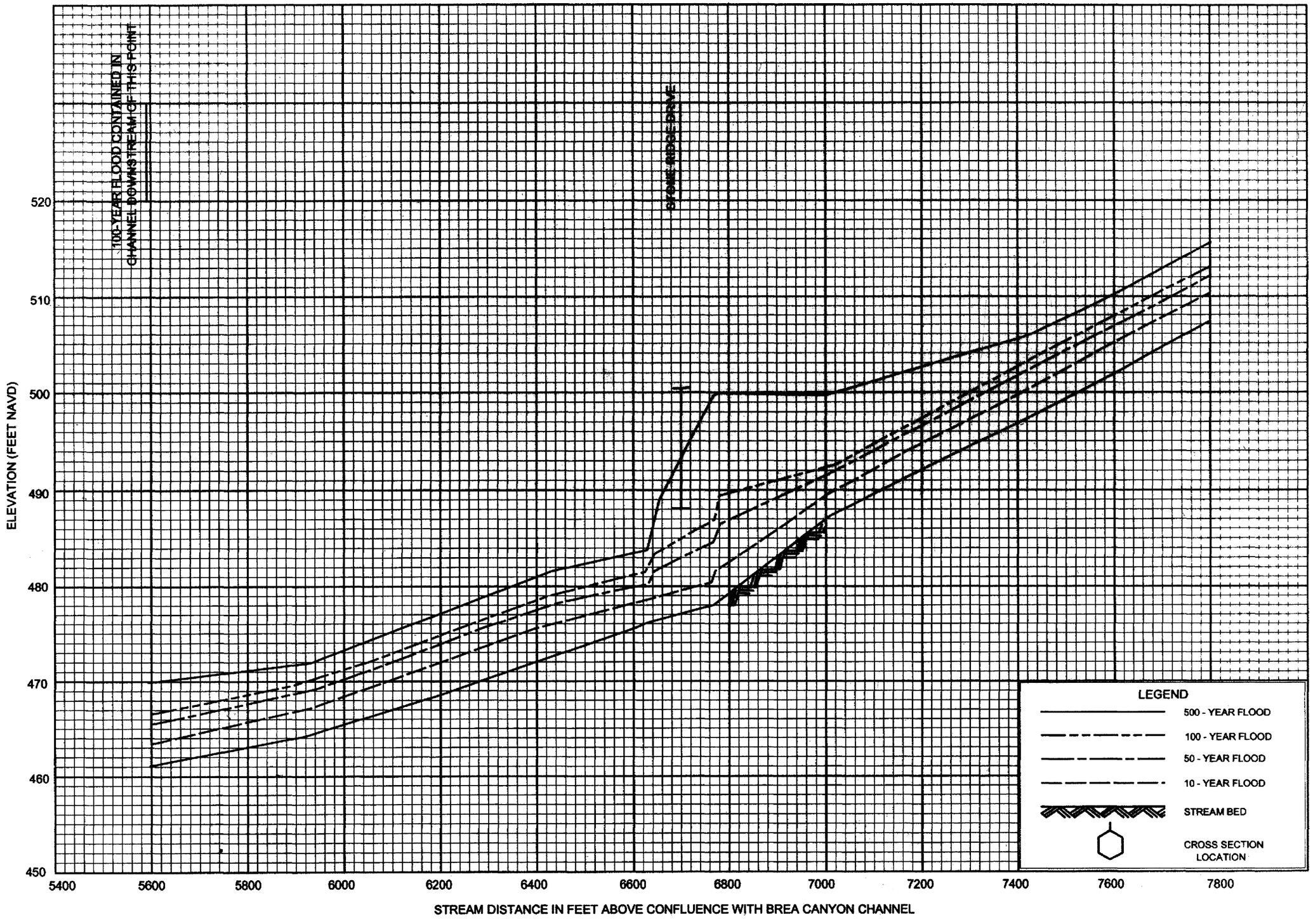
FLOOD PROFILES

LOFTUS DIVERSION CHANNEL

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

86P



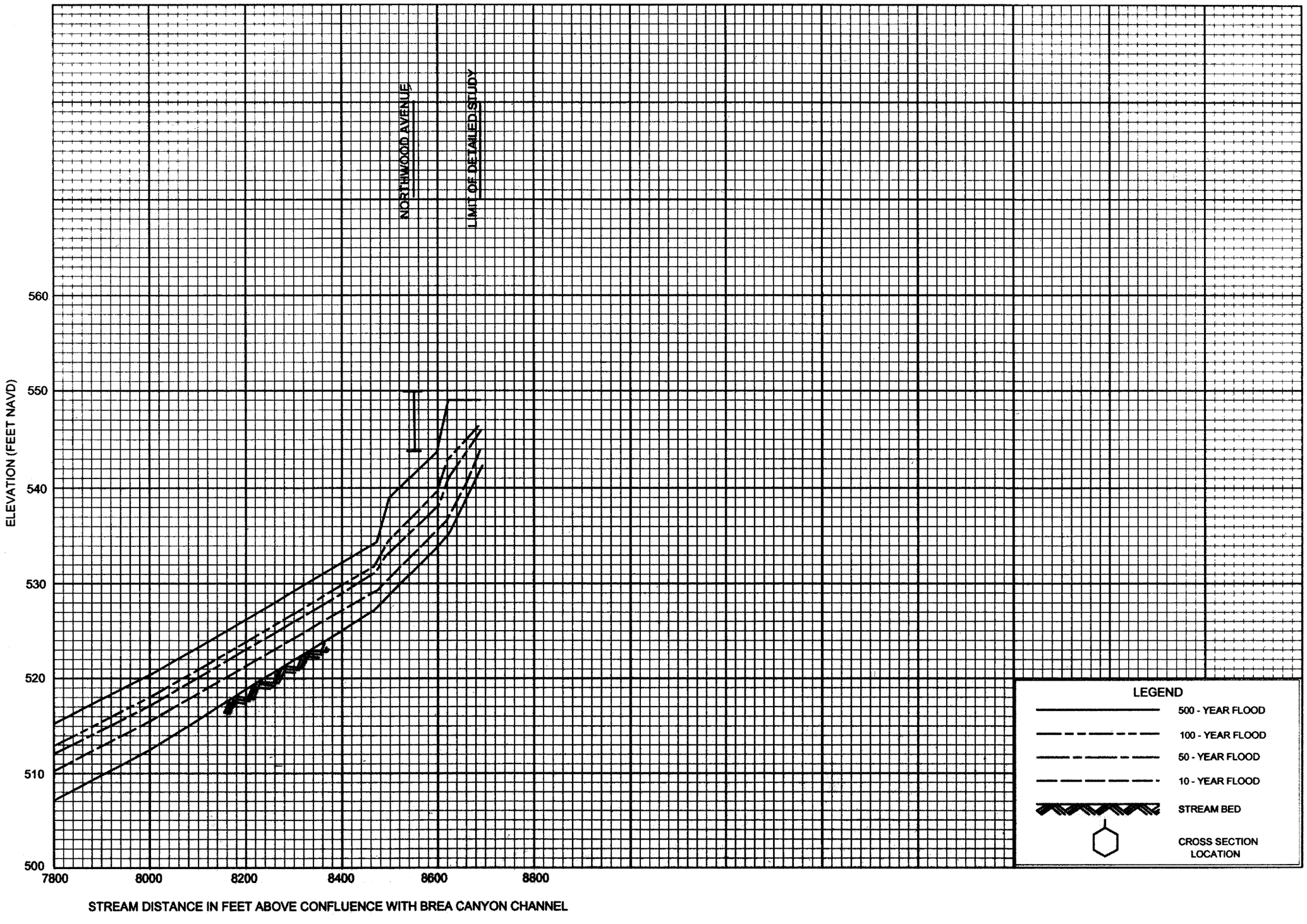
FLOOD PROFILES

MEMORY GARDEN STORM CHANNEL

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

87P



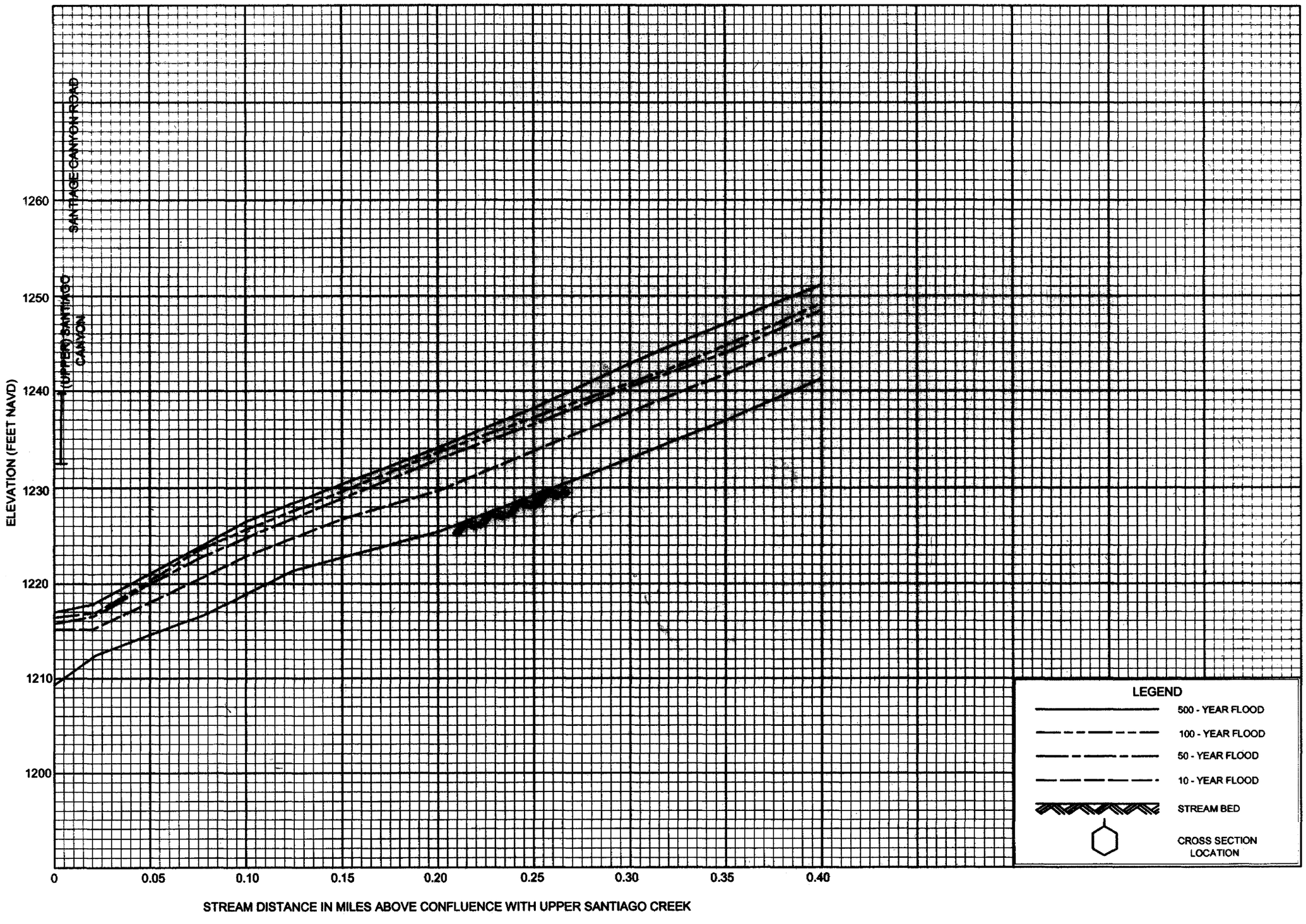
FLOOD PROFILES

MEMORY GARDEN STORM CHANNEL

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

88P



FLOOD PROFILES

MODJESKA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

89P

MODJESKA CANYON ROAD

ELEVATION (FEET NAVD)

1280
1270
1260
1250
1240
1230

0.40 0.45 0.50 0.55 0.60 0.65

STREAM DISTANCE IN MILES ABOVE CONFLUENCE WITH UPPER SANTIAGO CREEK

LEGEND

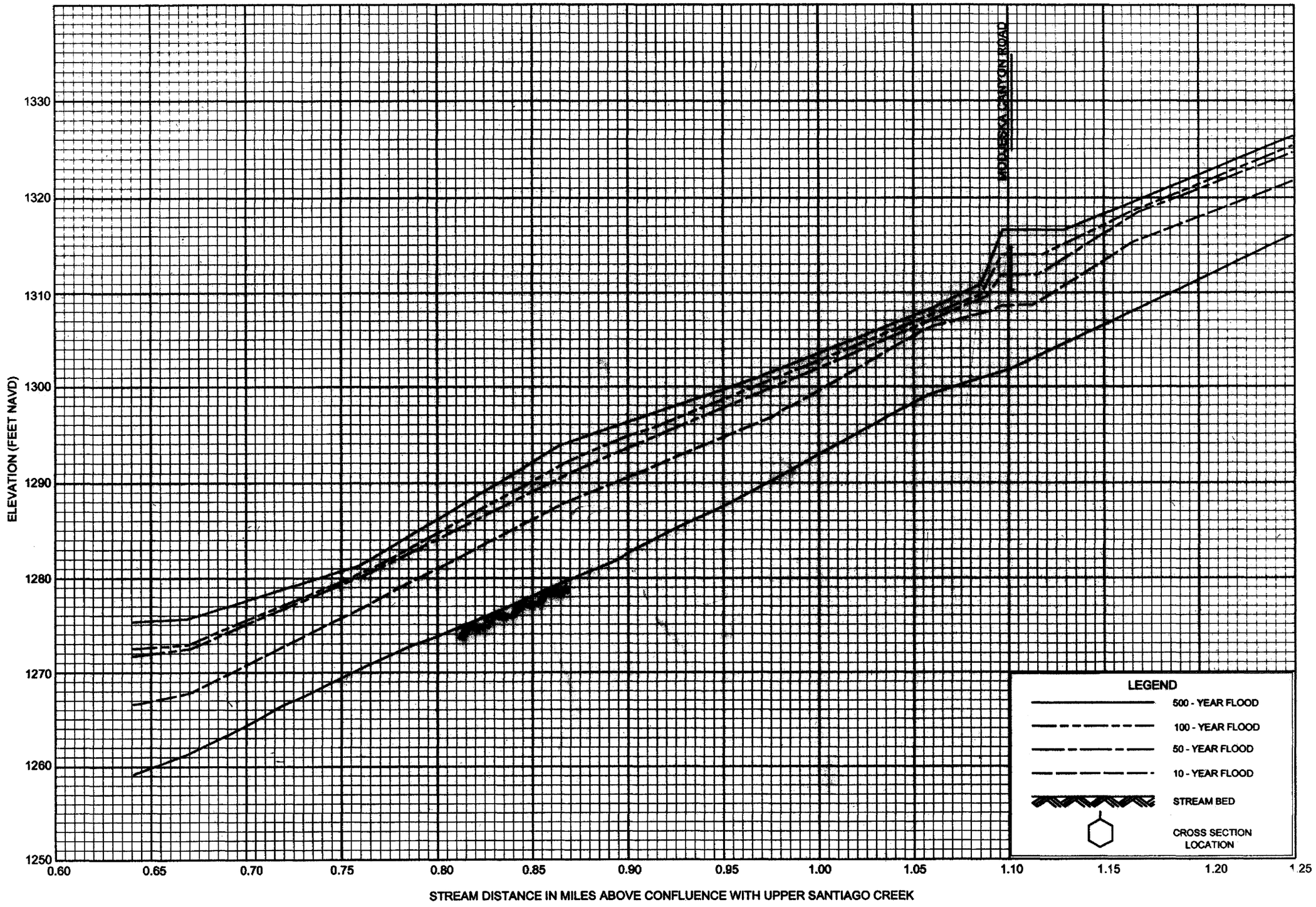
- 500 - YEAR FLOOD
- 100 - YEAR FLOOD
- 50 - YEAR FLOOD
- 10 - YEAR FLOOD
- STREAM BED
- CROSS SECTION LOCATION

FLOOD PROFILES

MODJESKA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS



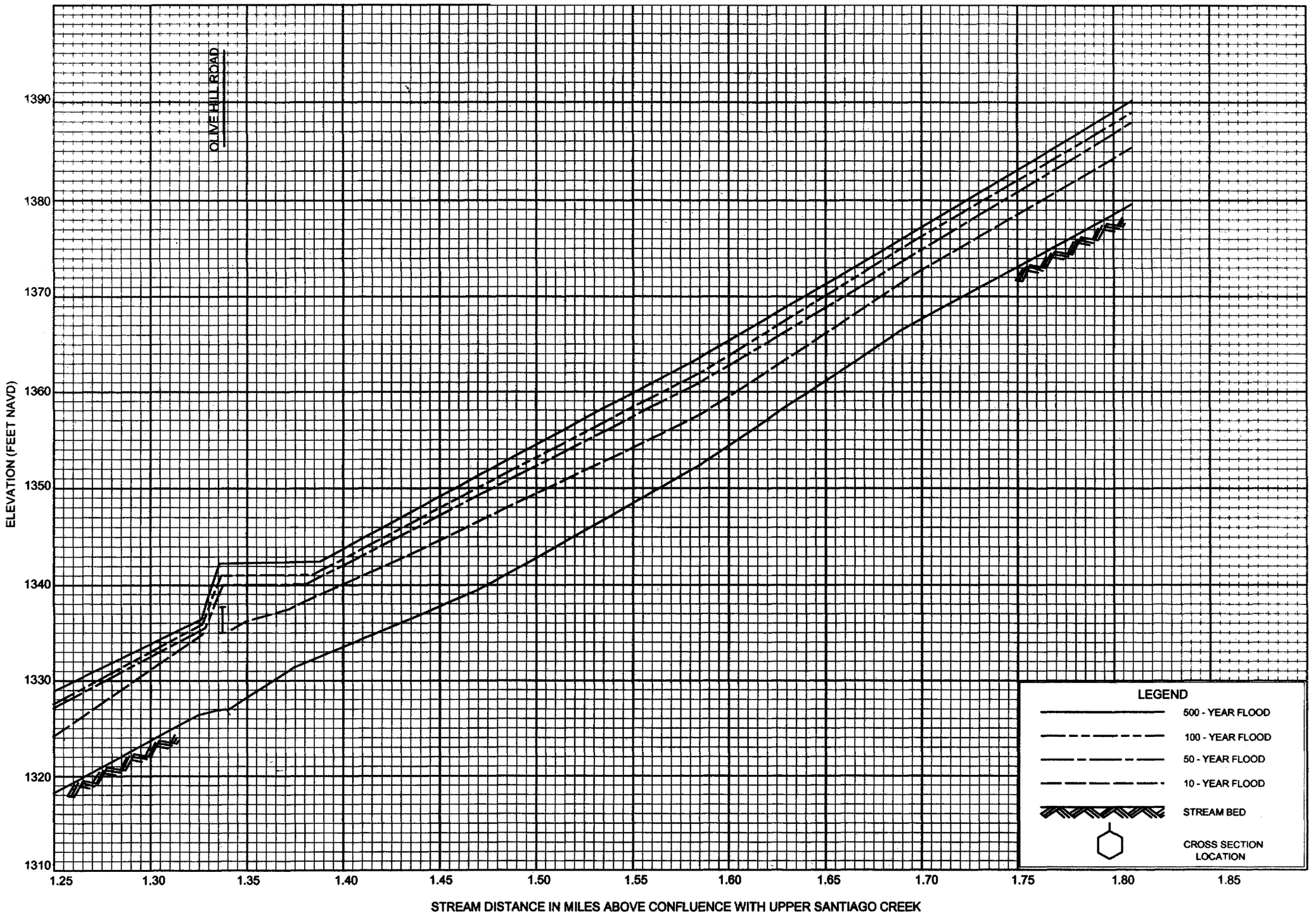
FLOOD PROFILES

MODJESKA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

91P



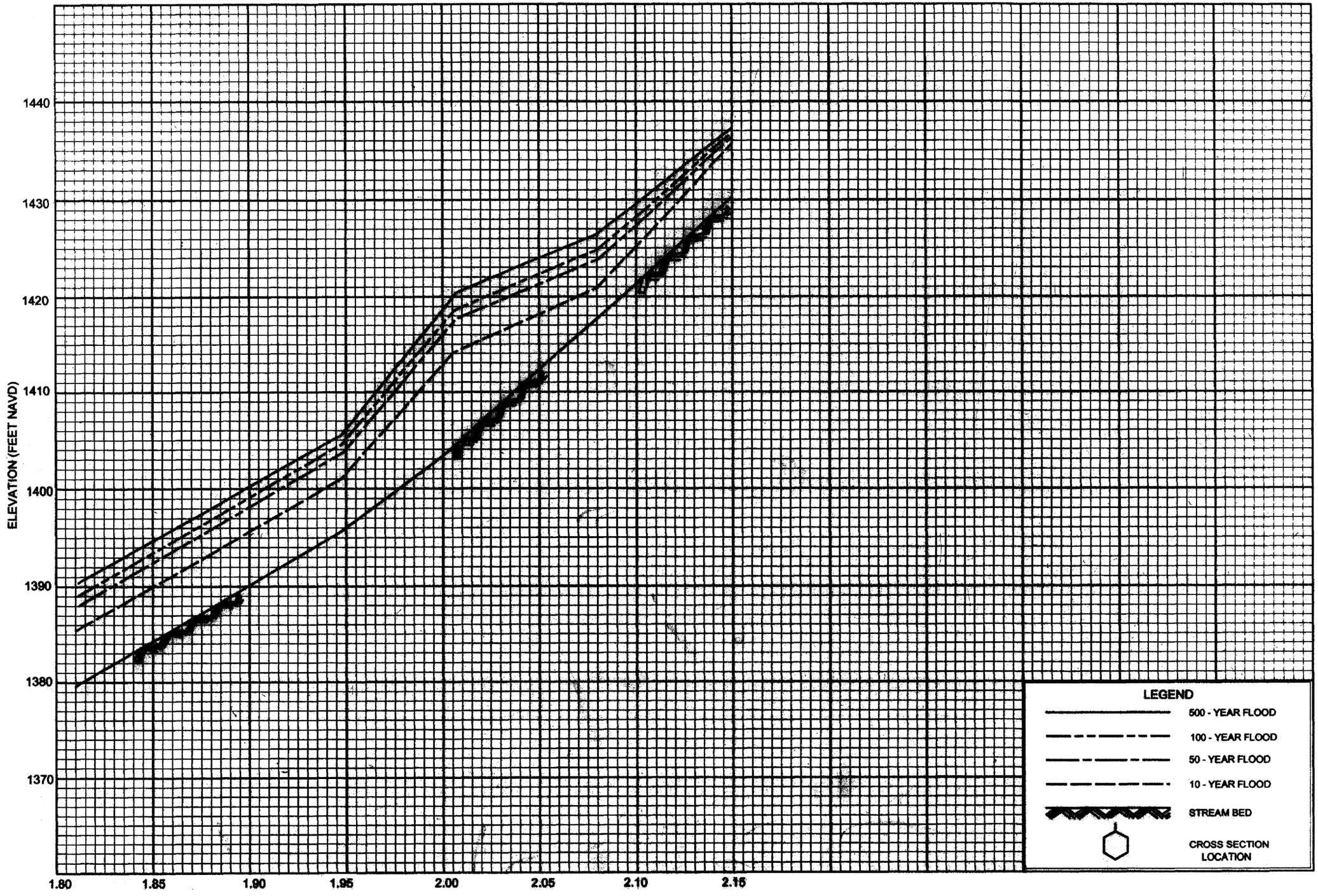
FLOOD PROFILES

MODJESKA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

92P



FLOOD PROFILES

MODJESKA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

93P

LIMIT OF DETAILED STUDY

1470
1460
1450
1440
1430
1420

ELEVATION (FEET NAVD)

2.15
2.25
2.35

STREAM DISTANCE IN MILES ABOVE CONFLUENCE WITH UPPER SANTIAGO CREEK

LEGEND

- 500 - YEAR FLOOD
- 100 - YEAR FLOOD
- 50 - YEAR FLOOD
- 10 - YEAR FLOOD
- STREAM BED
- CROSS SECTION LOCATION

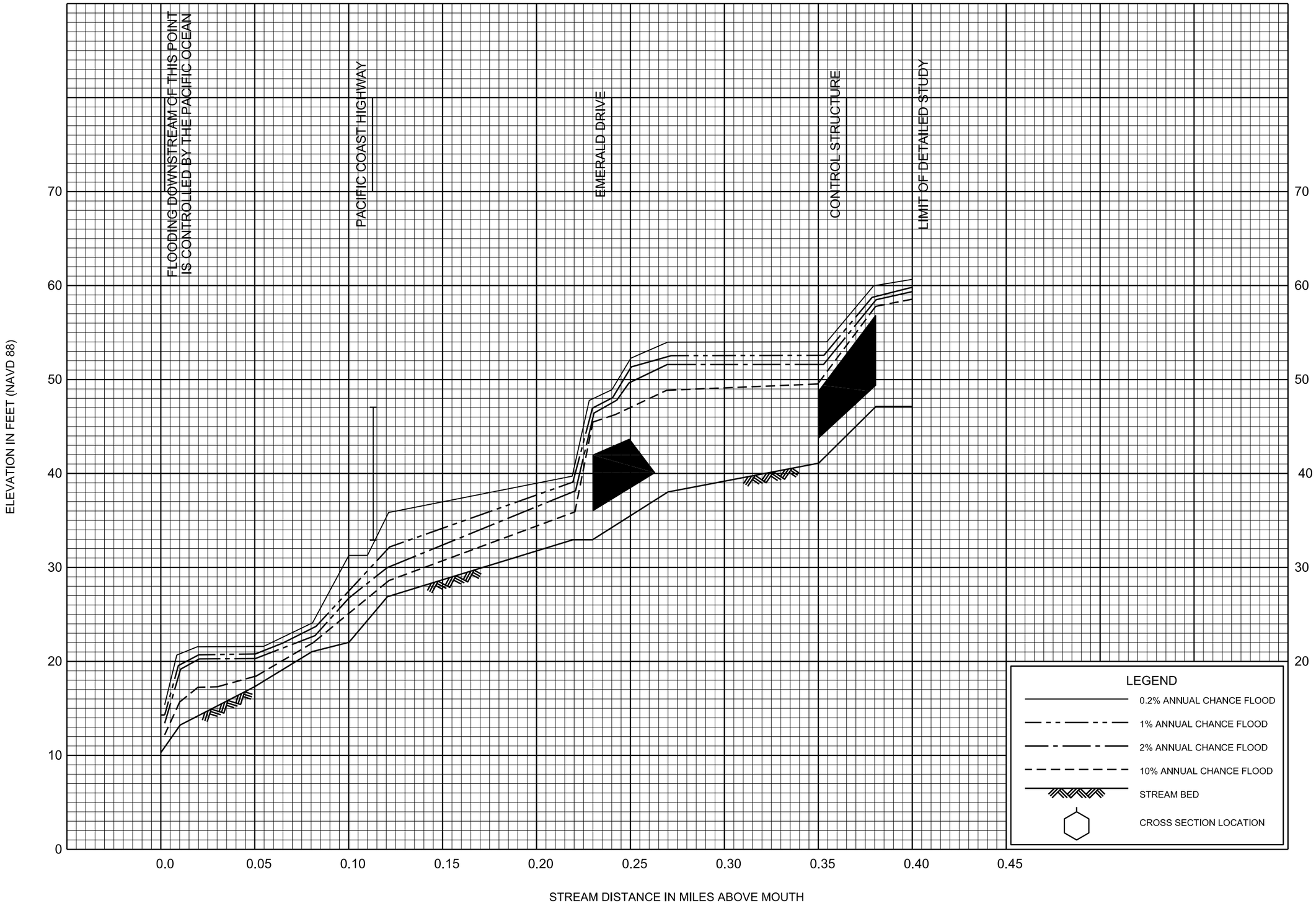
FLOOD PROFILES

MODJESKA CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

94P



FLOOD PROFILES

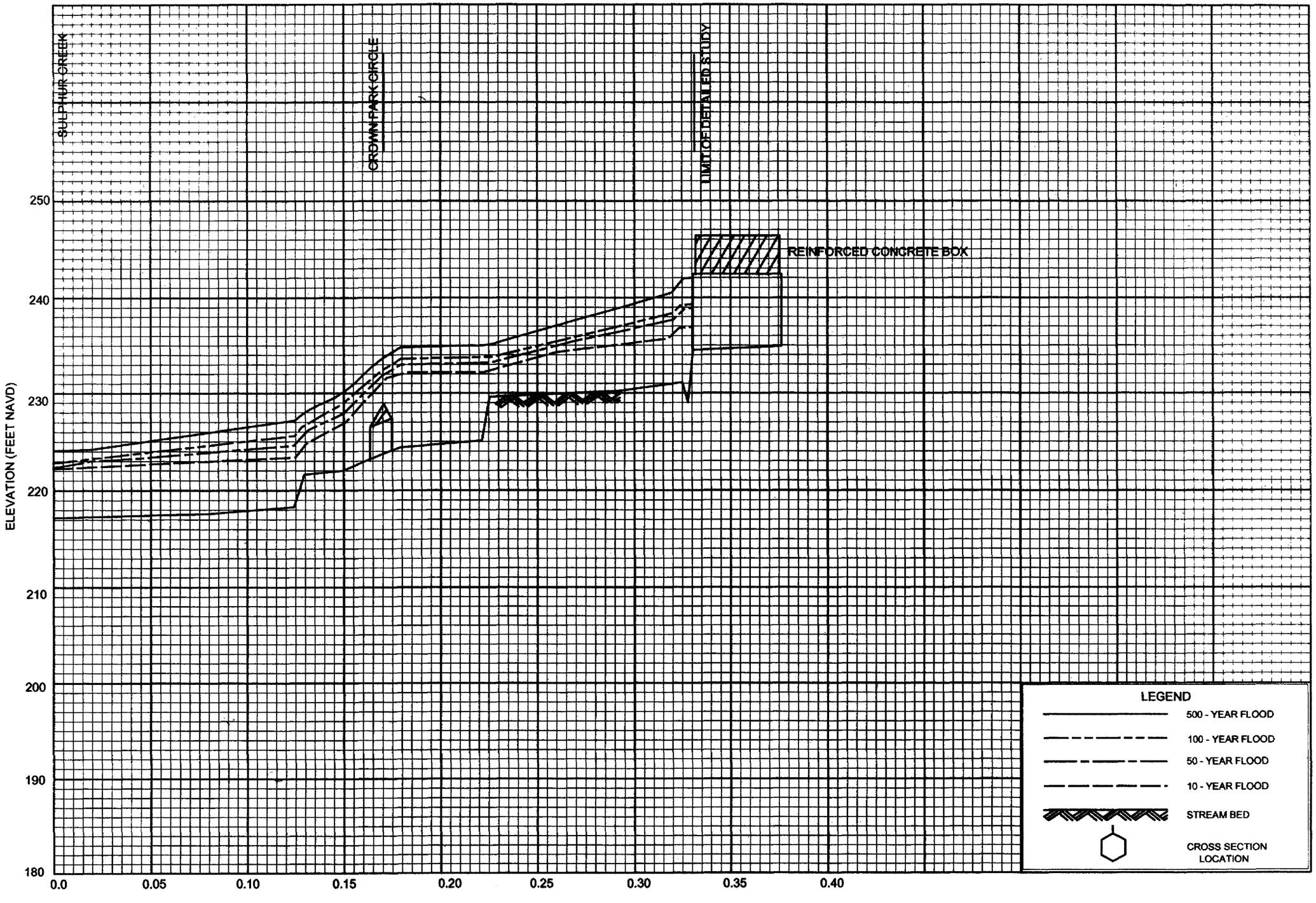
NIGUEL CANYON (EMERALD BAY CHANNEL)

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA

AND INCORPORATED AREAS

95P



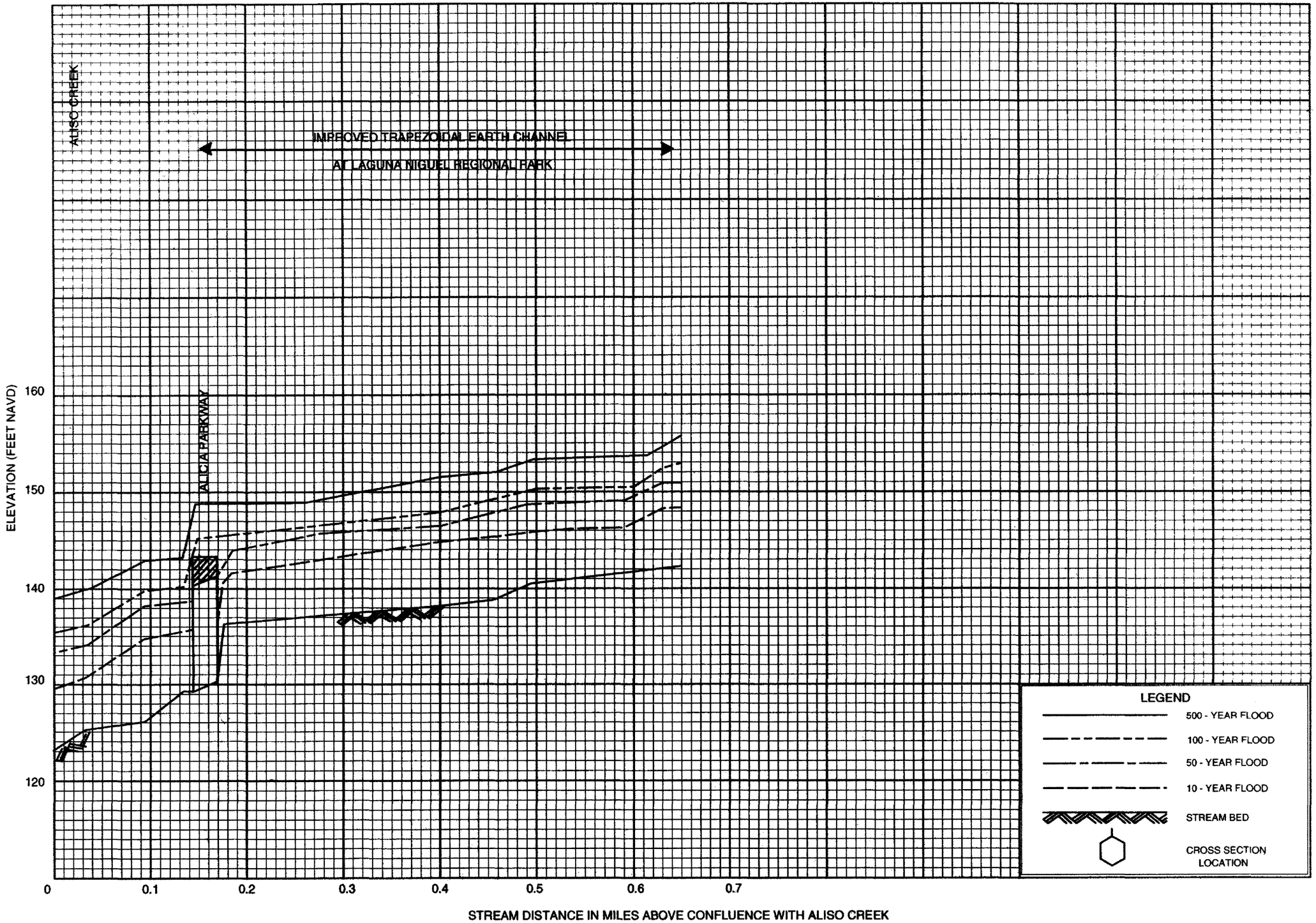
FLOOD PROFILES

NIGUEL STORM DRAIN (J03P01)

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

96P



FLOOD PROFILES

(NORTH SULPHUR CREEK) NARCO CHANNEL (J04)

FEDERAL EMERGENCY MANAGEMENT AGENCY

ORANGE COUNTY, CA
AND INCORPORATED AREAS

97P