

# FLOOD INSURANCE STUDY



## HOWARD COUNTY, MARYLAND AND INCORPORATED AREAS

Volume 2 of 3

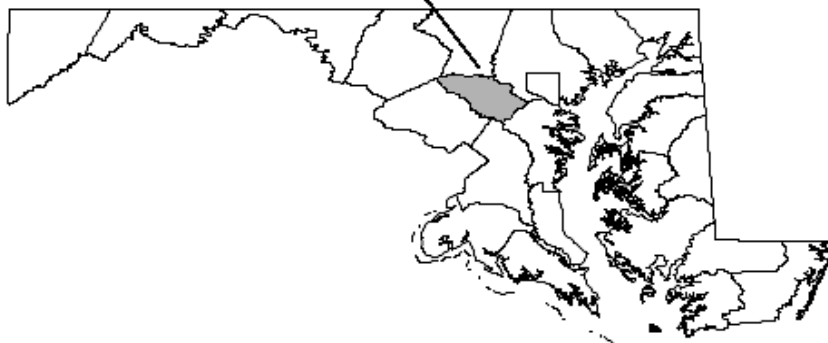
COMMUNITY  
NAME

HOWARD COUNTY  
(UNINCORPORATED AREAS)

COMMUNITY  
NUMBER

240044

Howard  
County



EFFECTIVE DATE: November 6, 2013

**Federal Emergency Management Agency**

FLOOD INSURANCE STUDY NUMBER  
24027CV002A



**NOTICE TO  
FLOOD INSURANCE STUDY USERS**

Communities participating in the National Flood Insurance Program have established repositories of flood hazard data for floodplain management and flood insurance purposes. This Flood Insurance Study (FIS) may not contain all data available within the repository. It is advisable to contact the community repository for any additional data.

The Federal Emergency Management Agency (FEMA) may revise and republish part or all of this FIS report at any time. In addition, FEMA may revise part of this FIS report by the Letter of Map Revision process, which does not involve republication or redistribution of the FIS report. Therefore, users should consult with community officials and check the Community Map Repository to obtain the most current FIS report components.

Flood Insurance Rate Map panels for this community contain new flood zone designations. The flood hazard zones have been changed as follows:

<u>Old Zones</u>	<u>New Zones</u>
A1 through A30	AE
B	X
C	X

Initial Countywide FIS Effective Date: November 6, 2013

**TABLE OF CONTENTS-Volume 1 – November 6, 2013**

	<u>Page</u>
1.0 <u>INTRODUCTION</u>	1
1.1 Purpose of Study	1
1.2 Authority and Acknowledgments	1
1.3 Coordination	3
2.0 <u>AREA STUDIED</u>	3
2.1 Scope of Study	3
2.2 Community Description	7
2.3 Principal Flood Problems	8
2.4 Flood Protection Measures	9
3.0 <u>ENGINEERING METHODS</u>	9
3.1 Hydrologic Analyses	10
3.2 Hydraulic Analyses	26
3.3 Vertical Datum	30
4.0 <u>FLOODPLAIN MANAGEMENT APPLICATIONS</u>	31
4.1 Floodplain Boundaries	31
4.2 Floodways	32
5.0 <u>INSURANCE APPLICATIONS</u>	32
6.0 <u>FLOOD INSURANCE RATE MAP</u>	33
7.0 <u>OTHER STUDIES</u>	33
8.0 <u>LOCATION OF DATA</u>	35
9.0 <u>BIBLIOGRAPHY AND REFERENCES</u>	35

**TABLE OF CONTENTS-Volume 1 – continued**

	<u>Page</u>
<b><u>TABLES</u></b>	
Table 1 – Flooding Sources Studied by Detailed Methods	4-5
Table 2 – Flooding Sources Studied by Approximate Methods	5-7
Table 3 – Piedmont Rural Equations	11
Table 4 – Piedmont Urban Equations	12
Table 5 – Summary of Discharges	13-26
Table 6 – Manning’s "n" Values	27-29
Table 7 – Community Map History	34

**EXHIBITS**

Exhibit 1 – Flood Profiles

Autumn Hill Branch	Panels 01P-03P
Beaver Run Branch	Panels 04P-06P
Benson Branch	Panels 07P-10P
Bonnie Branch	Panels 11P-19P
Cat Rock Run	Panels 20P-23P
Clark’s Creek	Panels 24P-25P
Clyde’s Branch	Panels 26P-30P
Deep Run	Panels 31P-41P
Dorsey Run	Panels 42P-46P
East Tributary Rockburn Branch	Panel 47P
Guilford Branch	Panels 48P-51P
Guilford Run	Panels 52P-53P
Hammond Branch	Panels 54P-61P
Lake Elkhorn Branch	Panels 62P-64P

**TABLE OF CONTENTS-Volume 2 – November 6, 2013**

Exhibit 1 – Flood Profiles (continued)

Little Patuxent River	Panels 65P-73P
Middle Patuxent River	Panels 74P-84P
New Cut Branch	Panels 85P-93P
North Tributary West Branch Dorsey Run	Panels 94P-96P
Patapsco River	Panels 97P-105P
Patuxent River	Panel 106P

**TABLE OF CONTENTS-Volume 2– continued**

Plumtree Branch	Panels 107P-110P
Red Hill Branch	Panels 111P-114P
Right Fork North Tributary West Branch Dorsey Run	Panel 115P
Rockburn Branch	Panels 116P-127P
Sanner Road Tributary	Panel 128P
South Branch Patapsco River	Panels 129P-143P
Stream CB-1	Panels 144P-147P
Stream CB-2	Panels 148P-149P
Stream CB-3	Panel 150P
Stream CB-4	Panel 151P
Stream CB-5	Panels 152P-153P
Stream CB-6	Panels 154P-155P
Stream CB-7	Panel 156P
Stream CB-8	Panel 157P
Stream CB-9	Panel 158P

**TABLE OF CONTENTS-Volume 3 – November 6, 2013**

Exhibit 1 – Flood Profiles (continued)

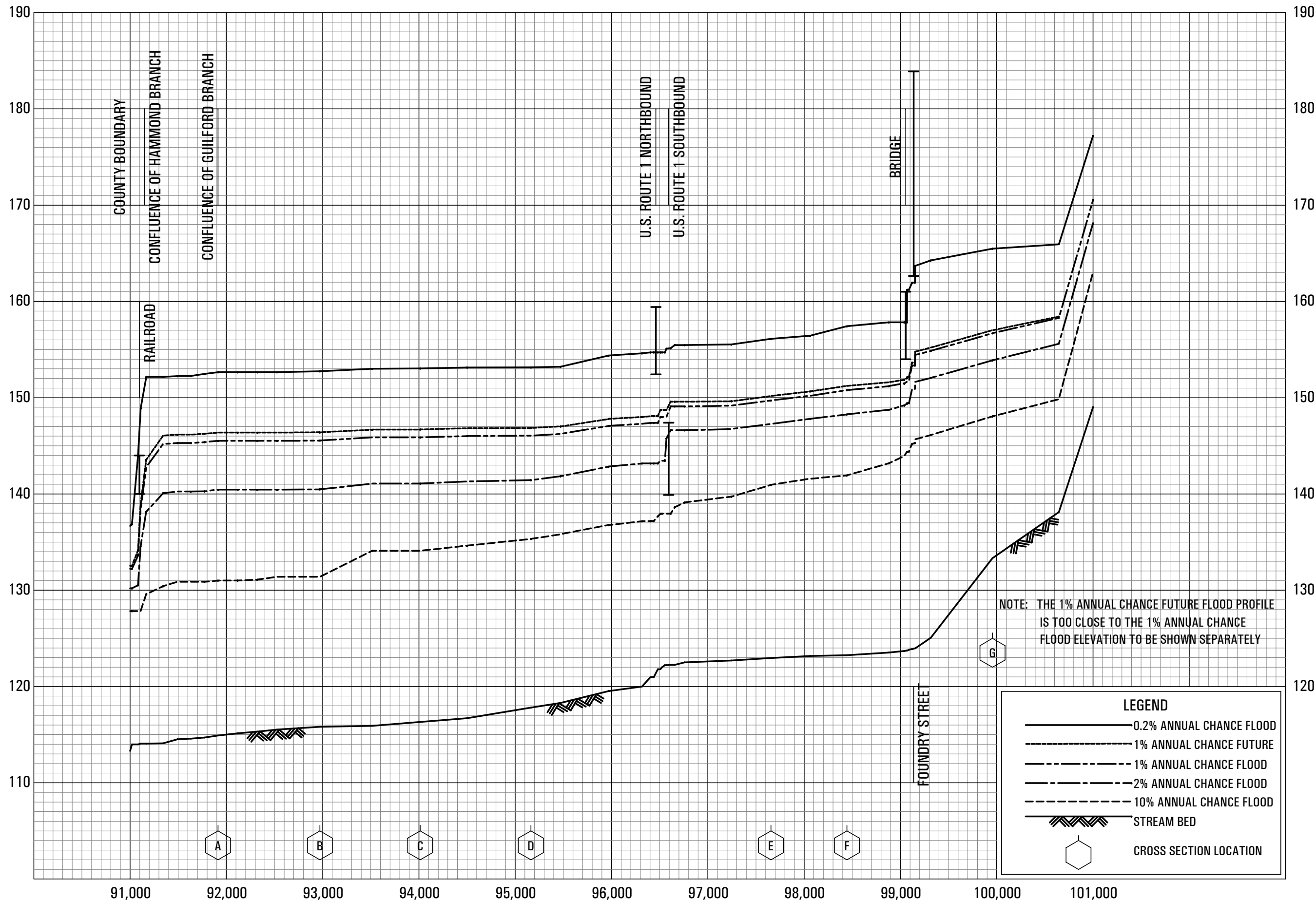
Stream CB-10	Panels 159P-162P
Stream CB-11	Panels 163P-164P
Stream CB-12	Panel 165P
Stream CB-13	Panel 166P
Stream CB-14	Panels 167P-168P
Stream CB-15	Panel 169P
Stream CB-16	Panels 170P-171P
Stream CB-17	Panel 172P
Stream CB-18	Panel 173P
Stream DR-1	Panels 174P-180P
Stream DR-2	Panels 181P-184P
Stream DR-3	Panels 185P-188P
Stream DR-4	Panels 189P-191P
Stream DR-5	Panel 192P
Stream HB-1	Panel 193P
Stream HB-2	Panel 194P
Stream HB-3	Panel 195P
Stream HB-4	Panel 196P
Stream HB-5	Panel 197P
Stream HB-6	Panel 198P
Stream HB-7	Panel 199P
Stream HB-8	Panel 200P

**TABLE OF CONTENTS-Volume 3 – continued**

Stream HB-9	Panel 201P
Stream HB-10	Panel 202P
Stream HB-11	Panel 203P
Stream HB-12	Panel 204P
Stream LPR-1	Panels 205P-206P
Stream LPR-2	Panels 207P-208P
Stream LPR-3	Panels 209P-210P
Stream LPR-4	Panel 211P
Stream LPR-5	Panel 212P
Stream LPR-6	Panels 213P-214P
Sucker Branch	Panels 215P-221P
Sucker Branch Tributary 1	Panels 222P-225P
Sucker Branch Tributary 2	Panel 226P
Tiber Hudson Branch	Panels 227P-231P
Tiber Hudson Tributary	Panels 232P
Tributary to Beaver Run Branch	Panel 233P
Tributary to Bonnie Branch	Panel 234P
Vista Road Tributary	Panels 235P-236P
West Branch Dorsey Run	Panels 237P-240P
Wilde Lake Branch	Panels 241P-242P

Exhibit 2 – Flood Insurance Rate Map Index  
Flood Insurance Rate Map

ELEVATION IN FEET (NAVD 88)



FLOOD PROFILES

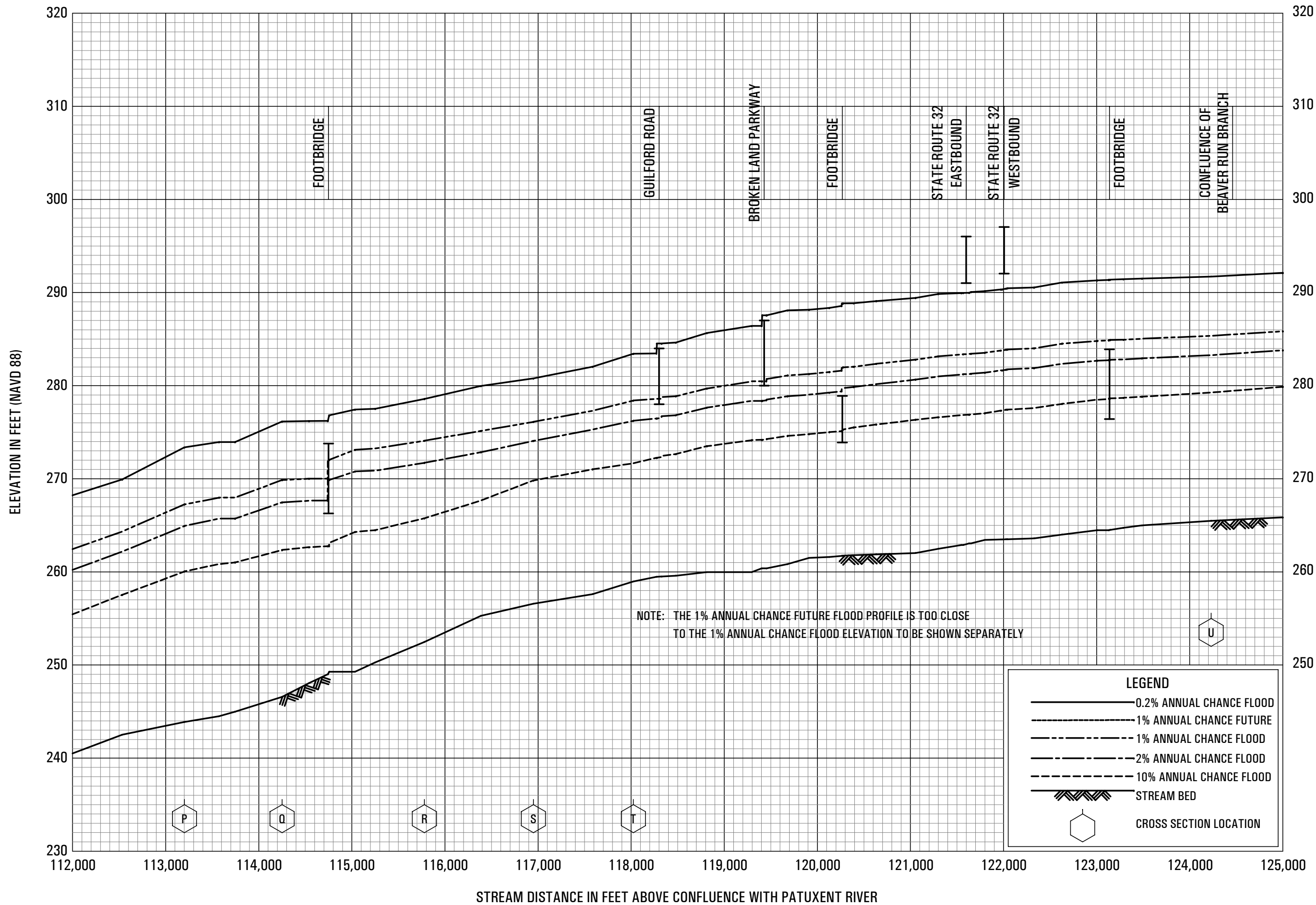
LITTLE PATUXENT RIVER

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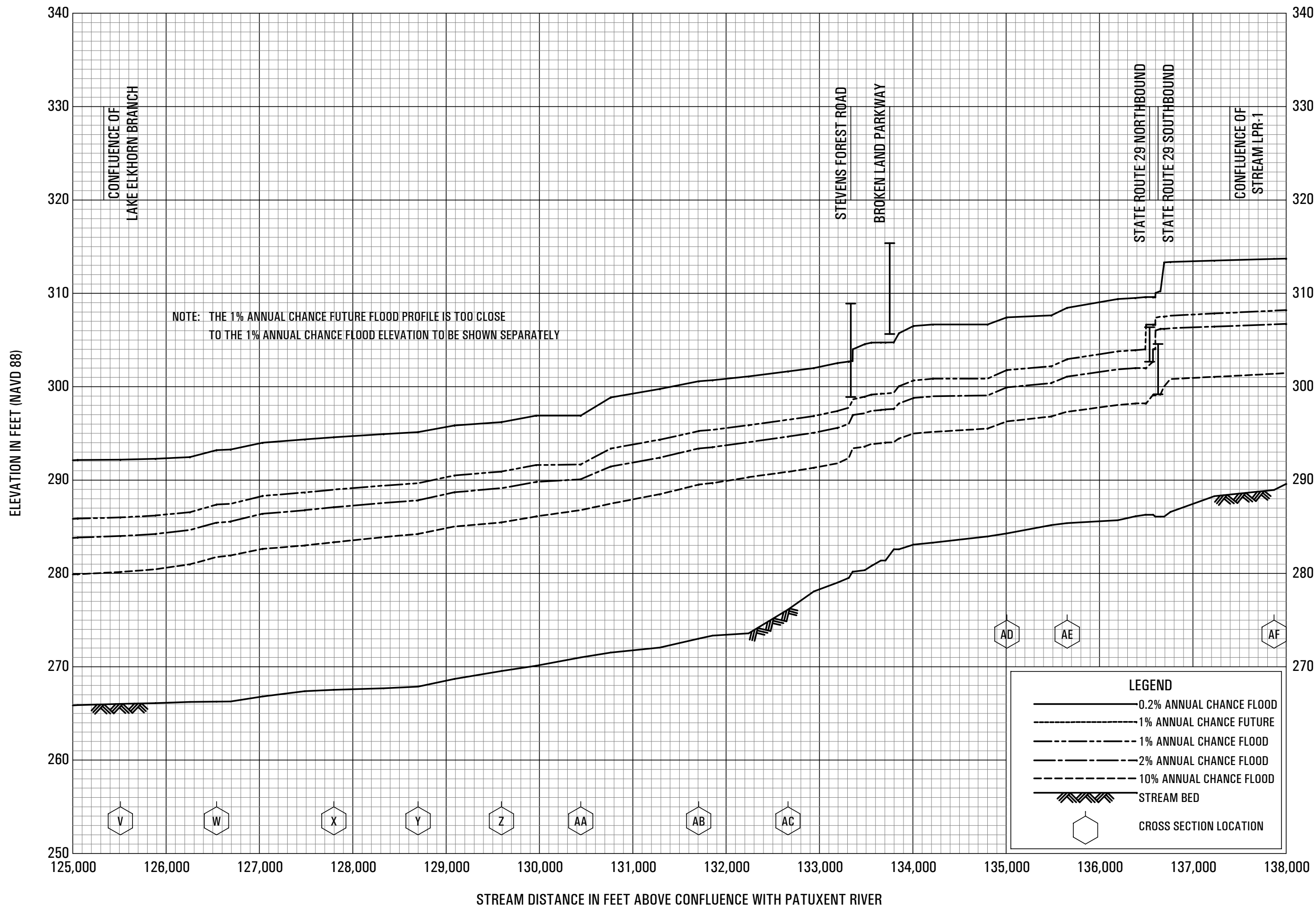


FLOOD PROFILES

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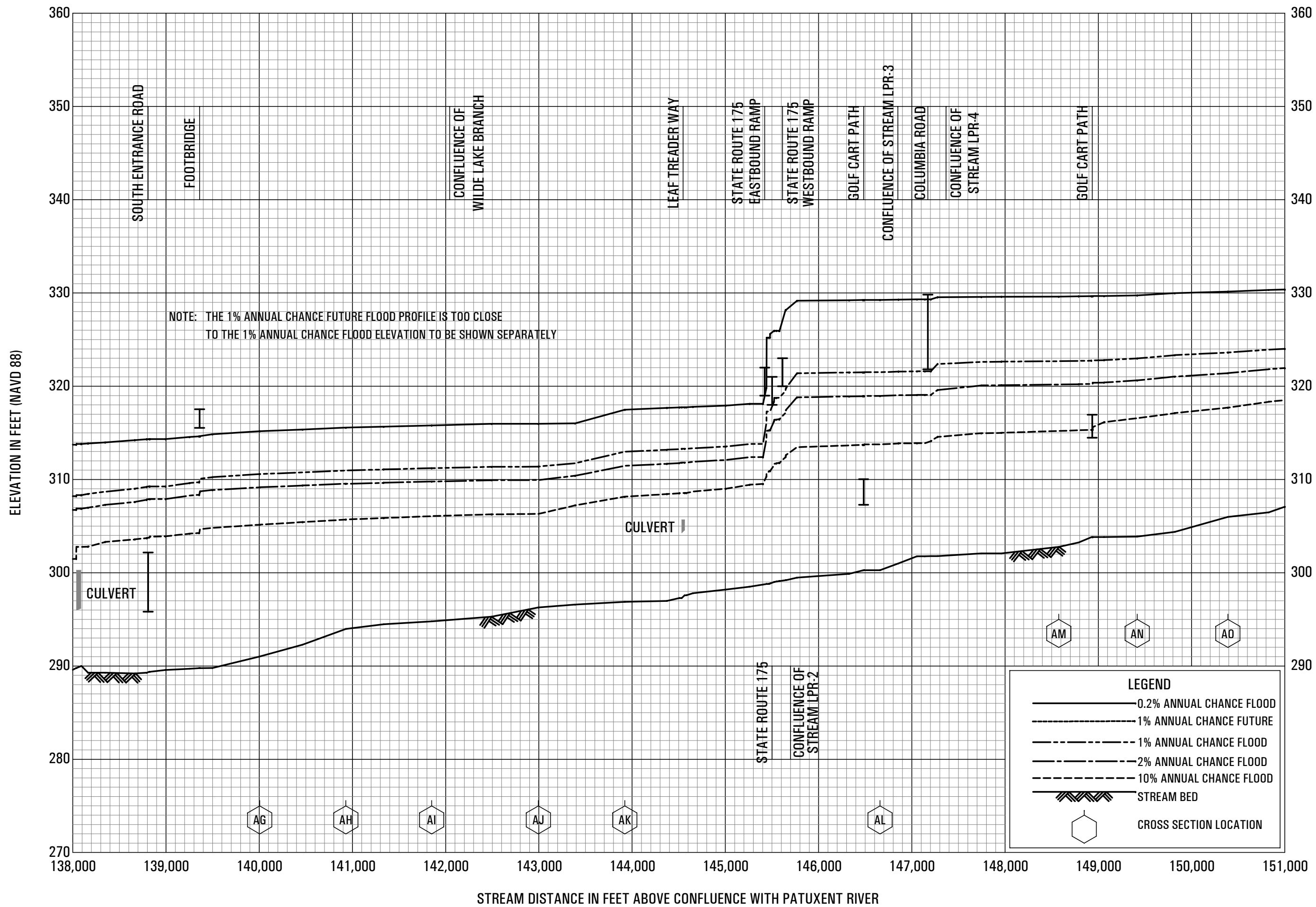


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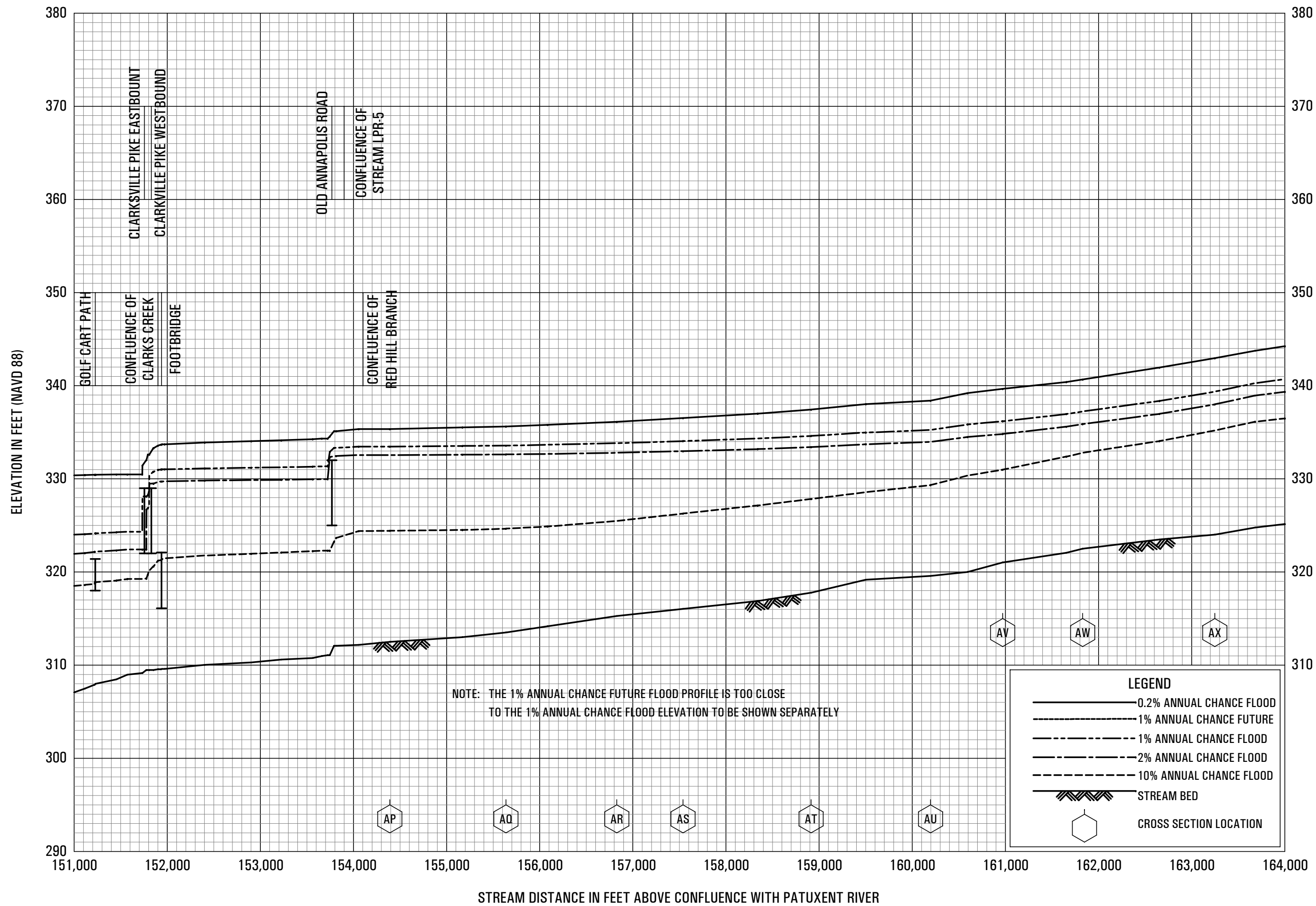
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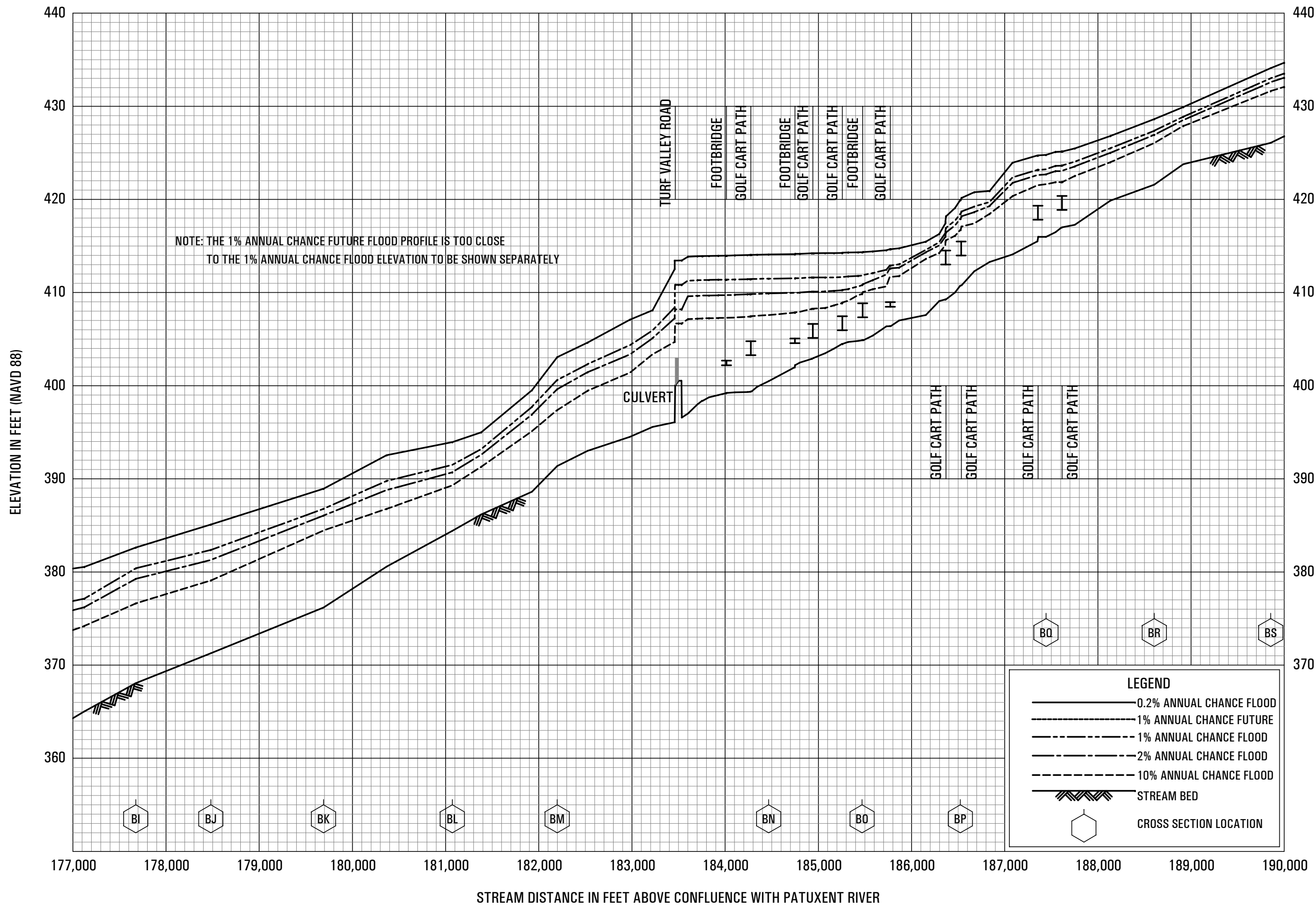
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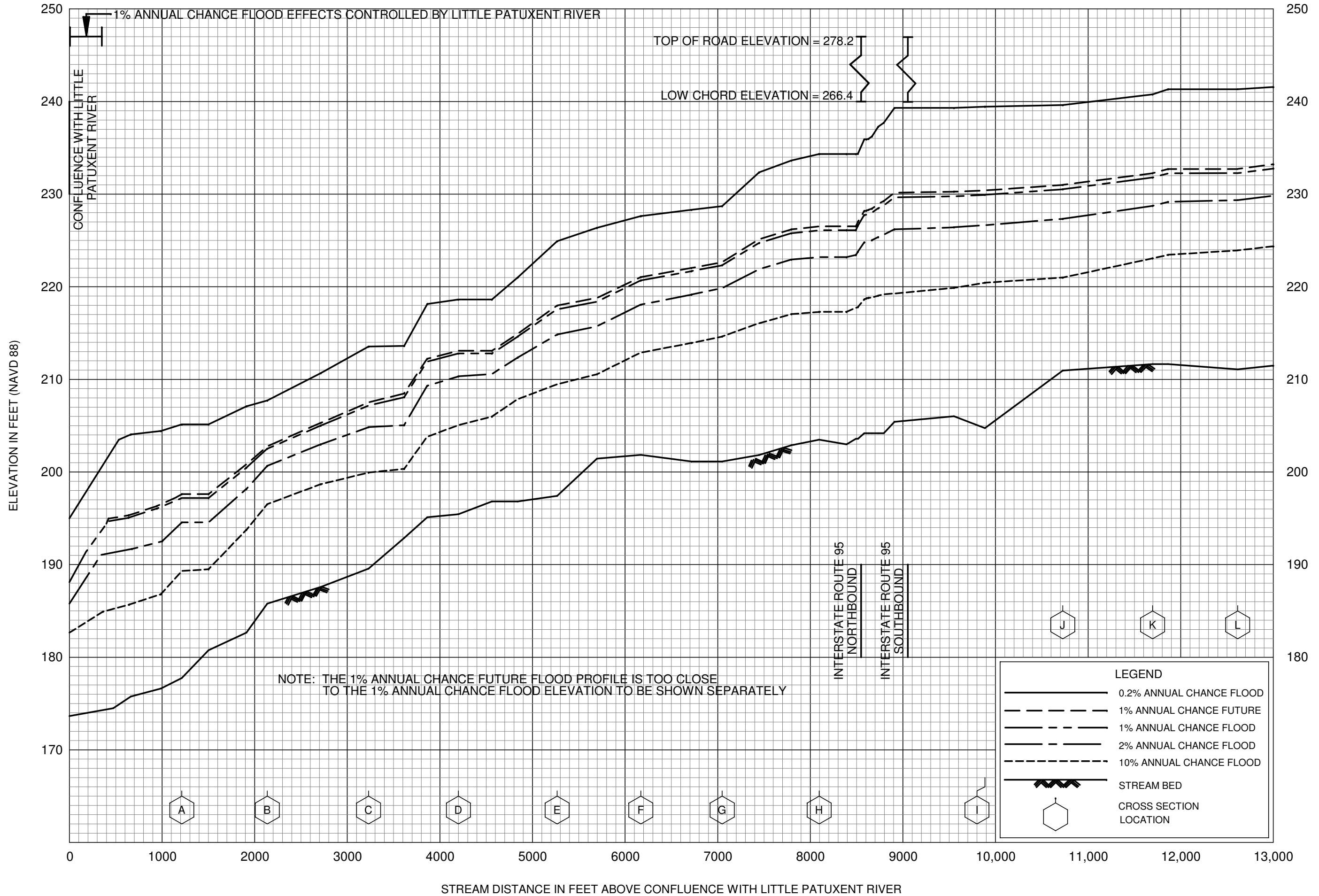
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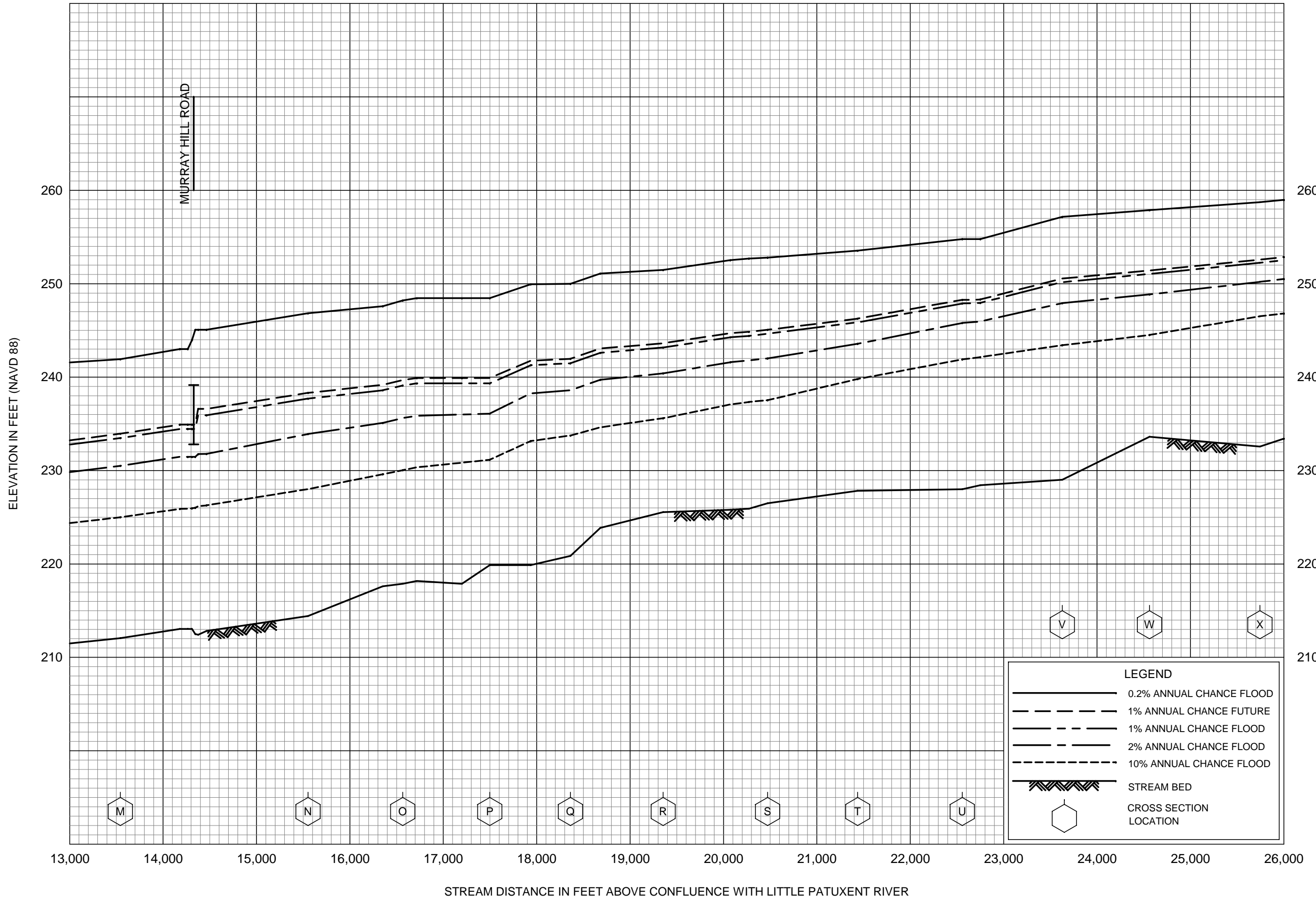


FLOOD PROFILES

MIDDLE PATUXENT RIVER

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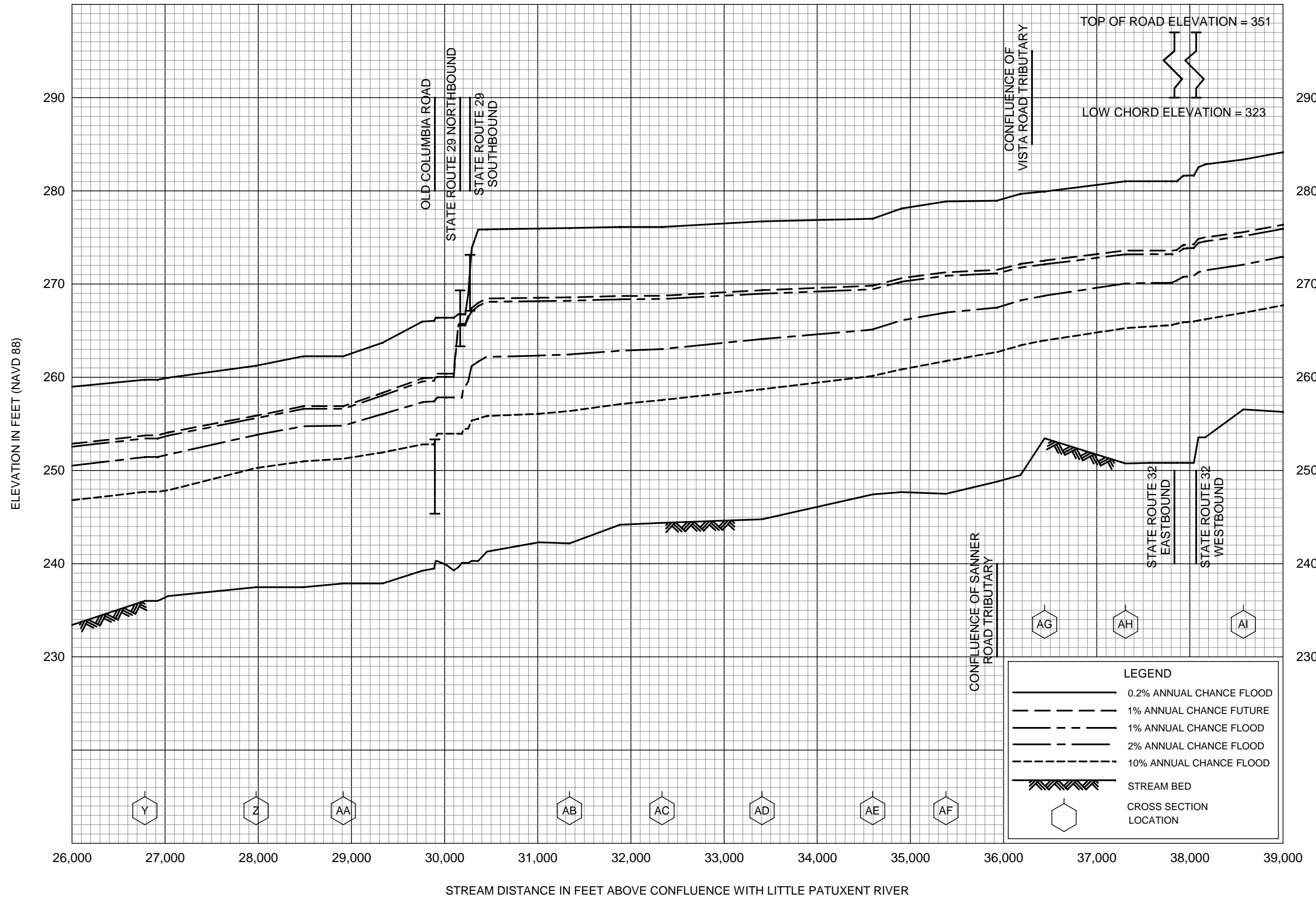
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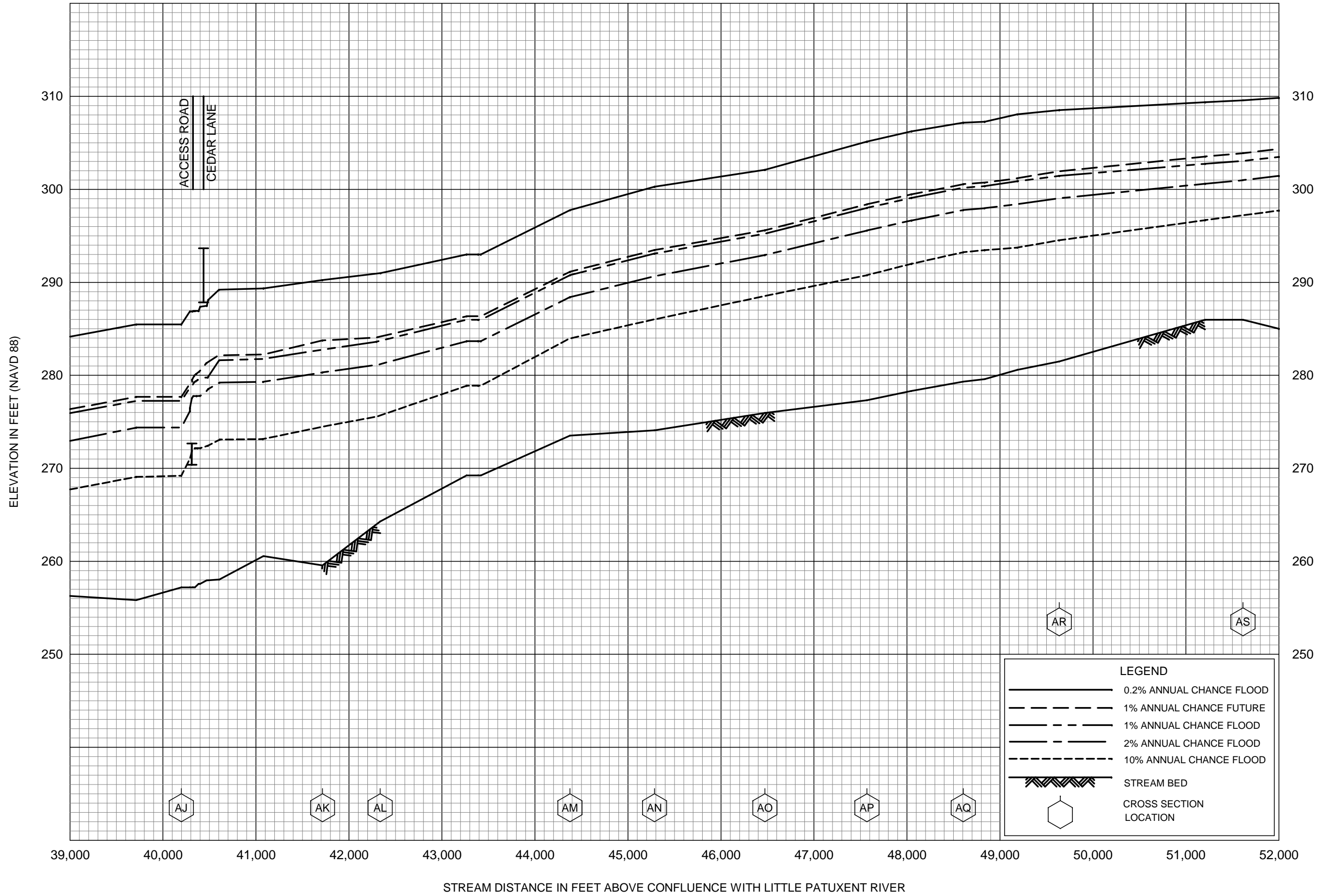


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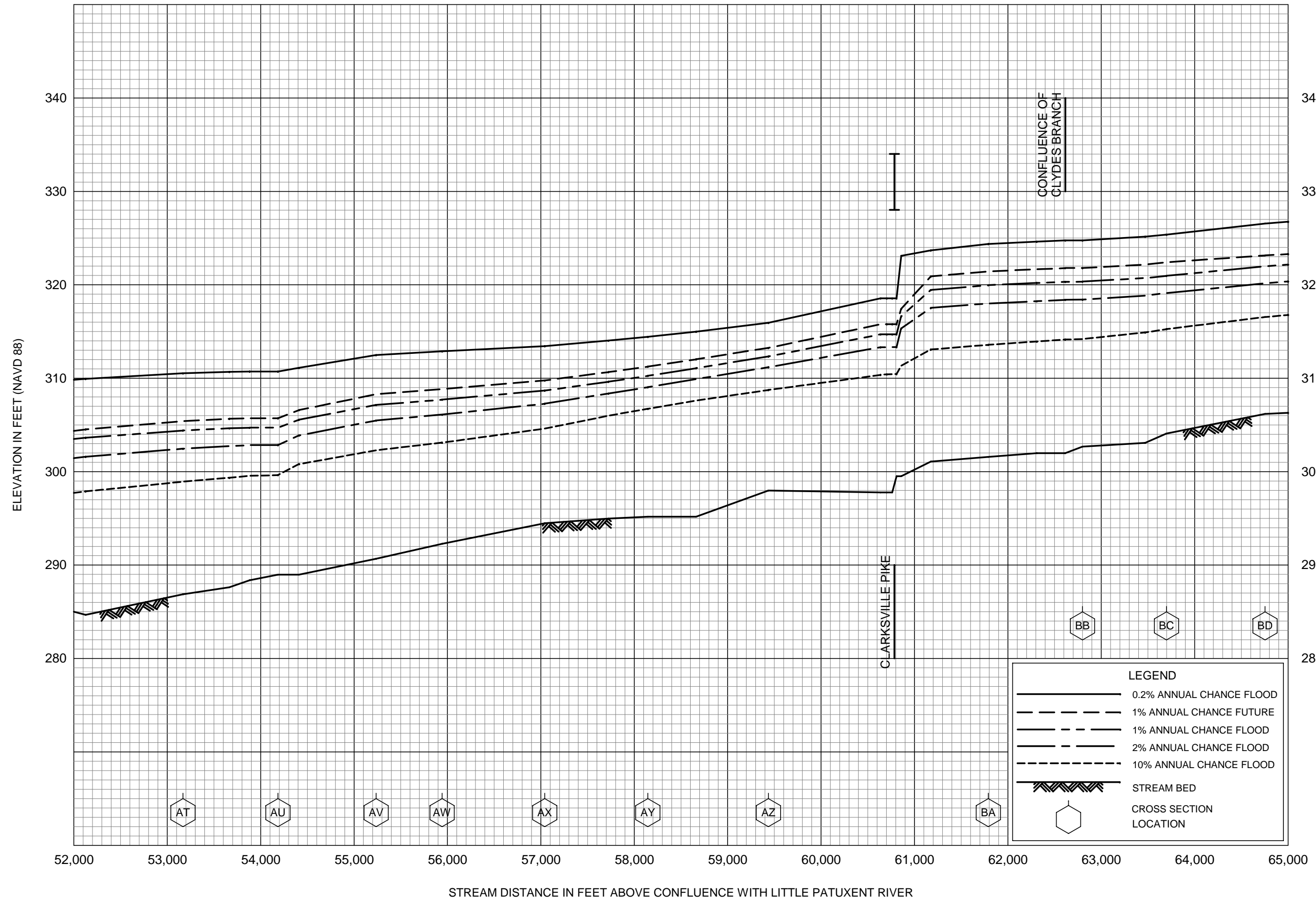


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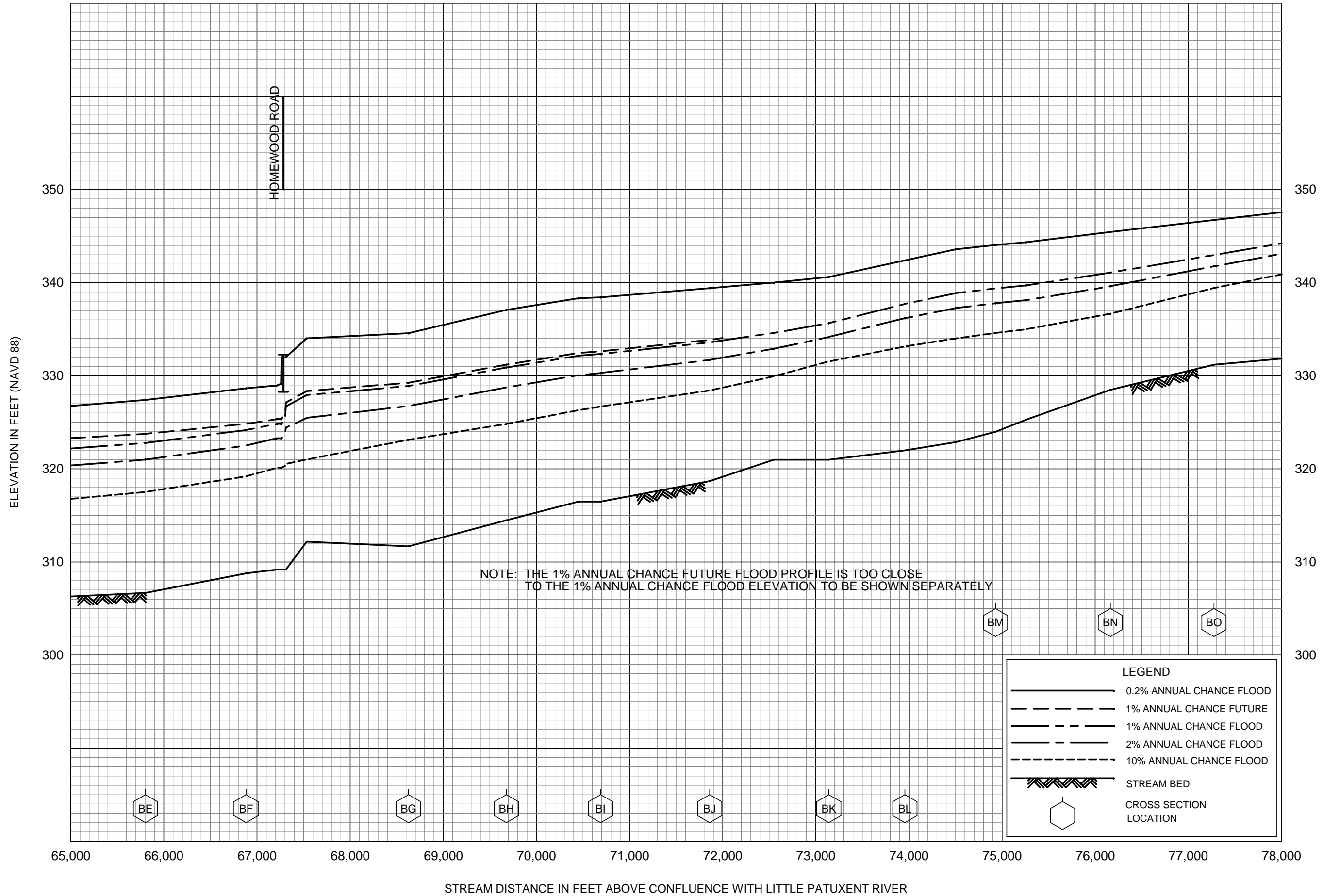


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AND INCORPORATED AREAS



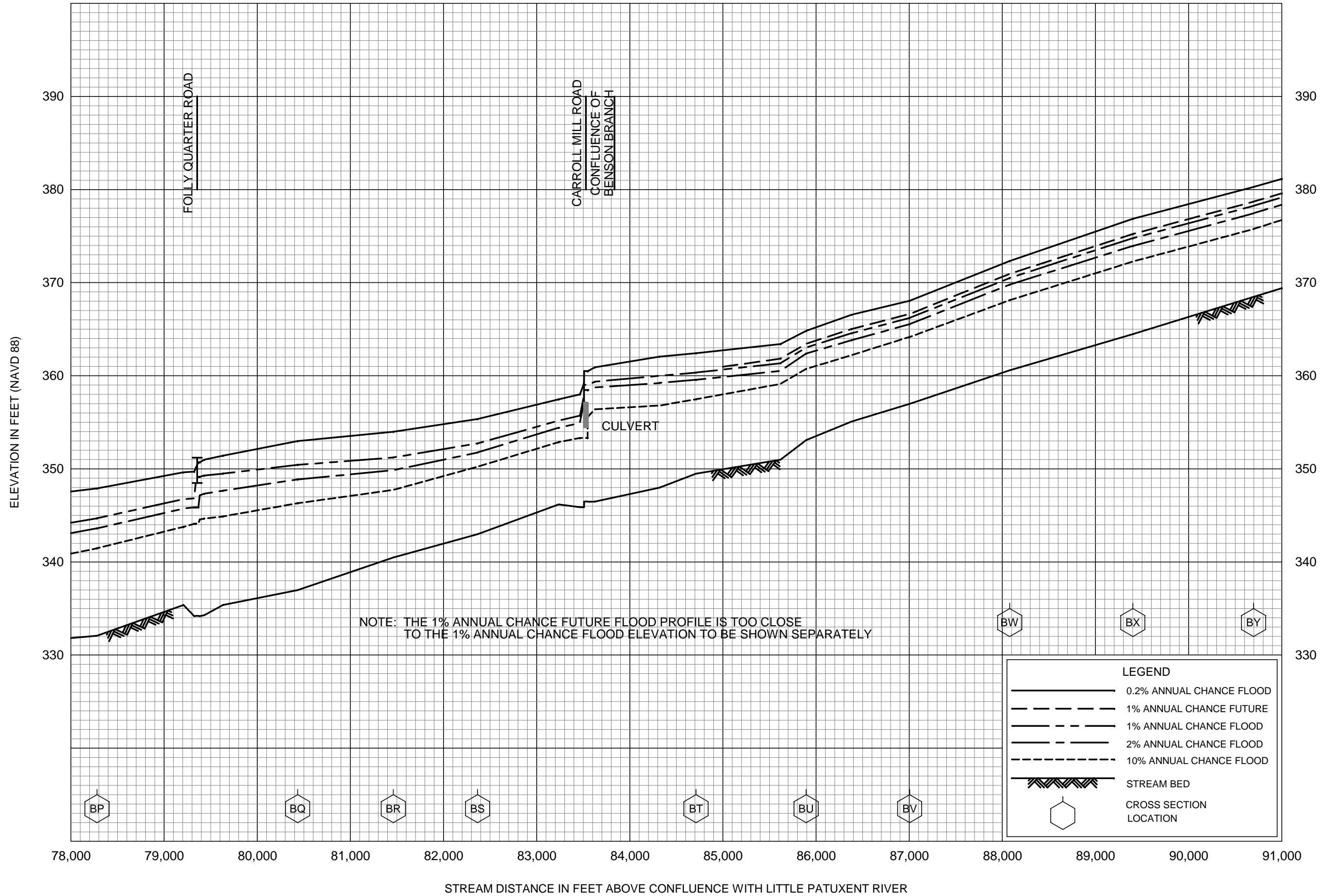
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	1% ANNUAL CHANCE FUTURE
	1% ANNUAL CHANCE FLOOD
	2% ANNUAL CHANCE FLOOD
	10% ANNUAL CHANCE FLOOD
	STREAM BED
	CROSS SECTION LOCATION

FLOOD PROFILES

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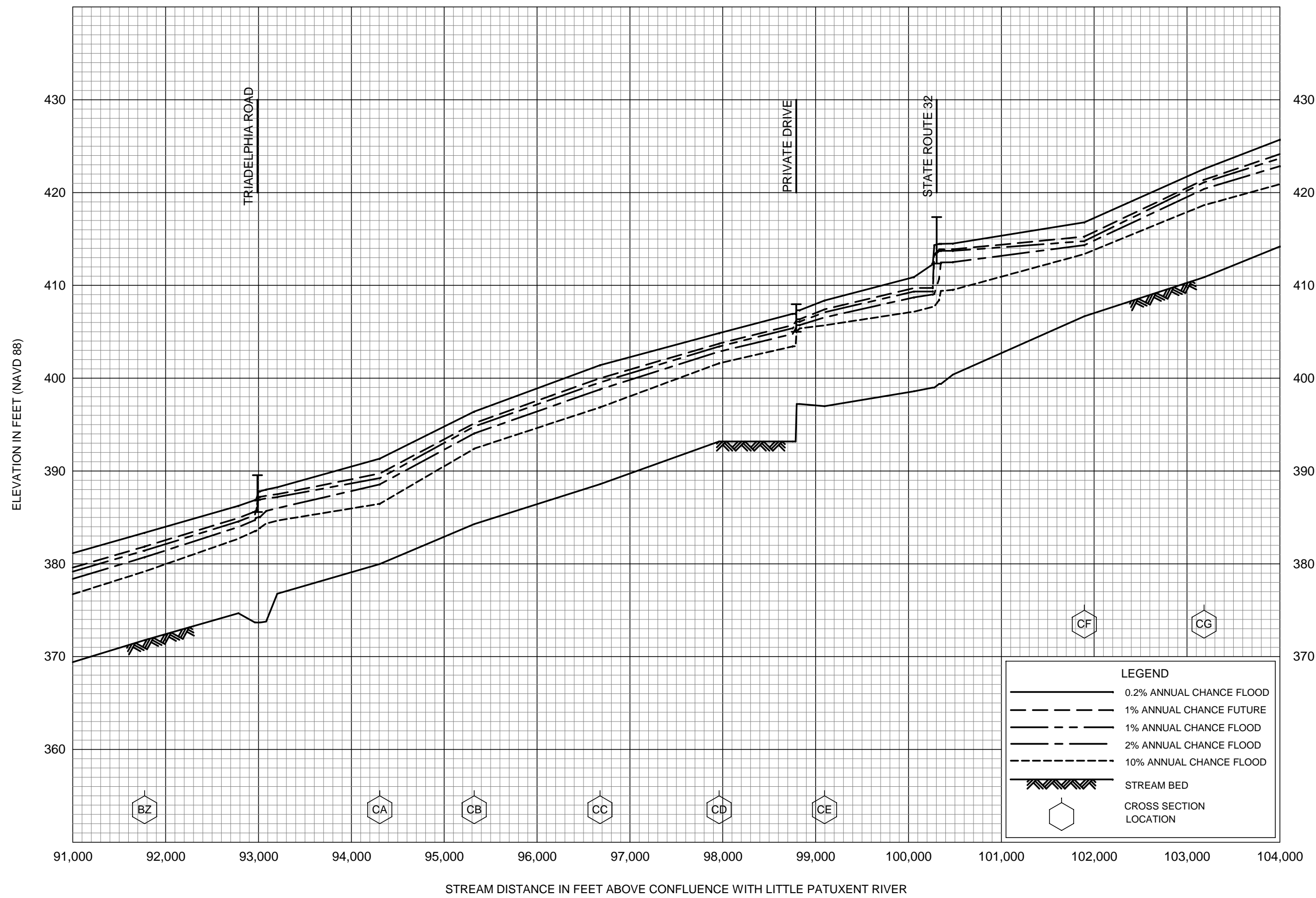


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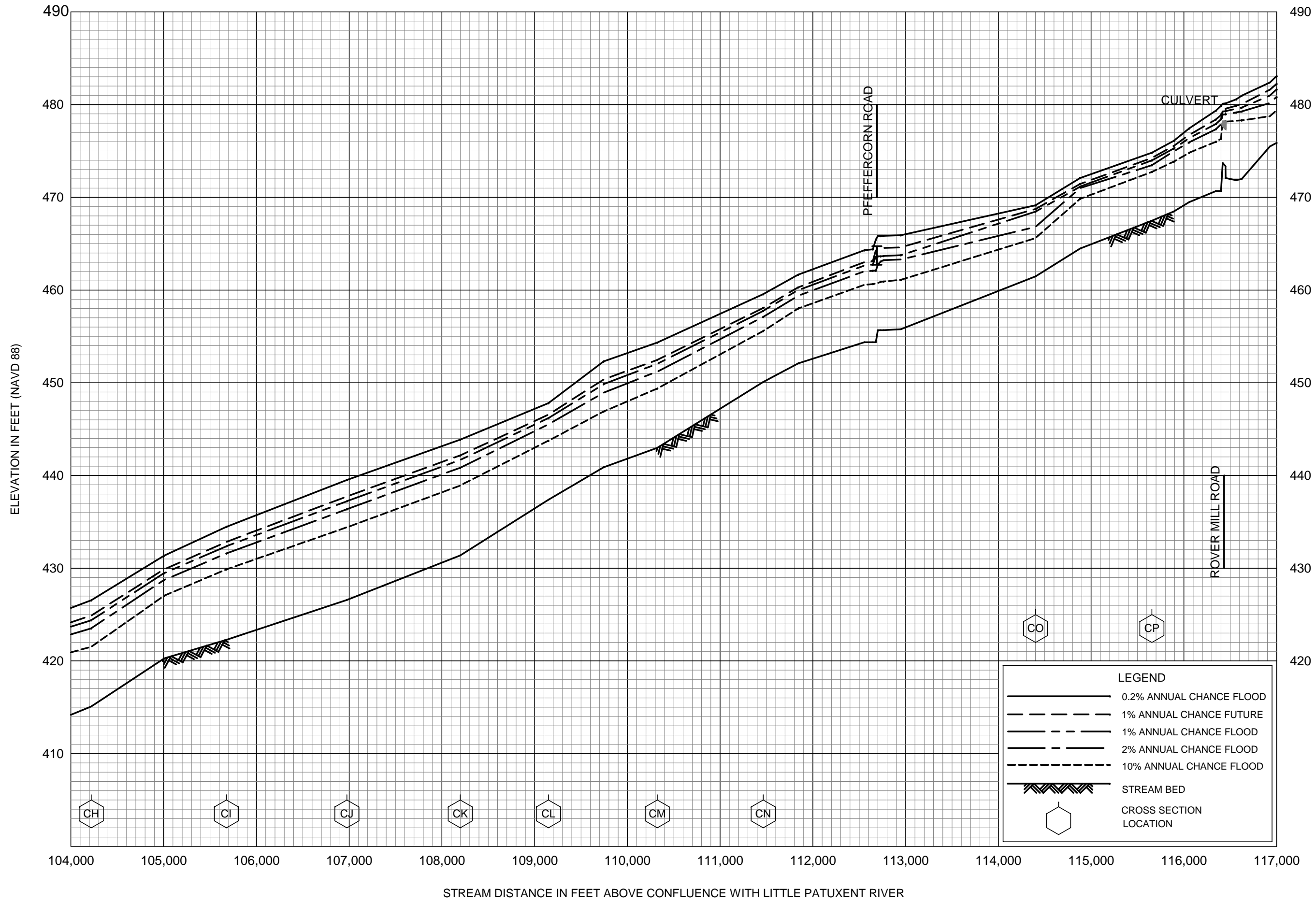


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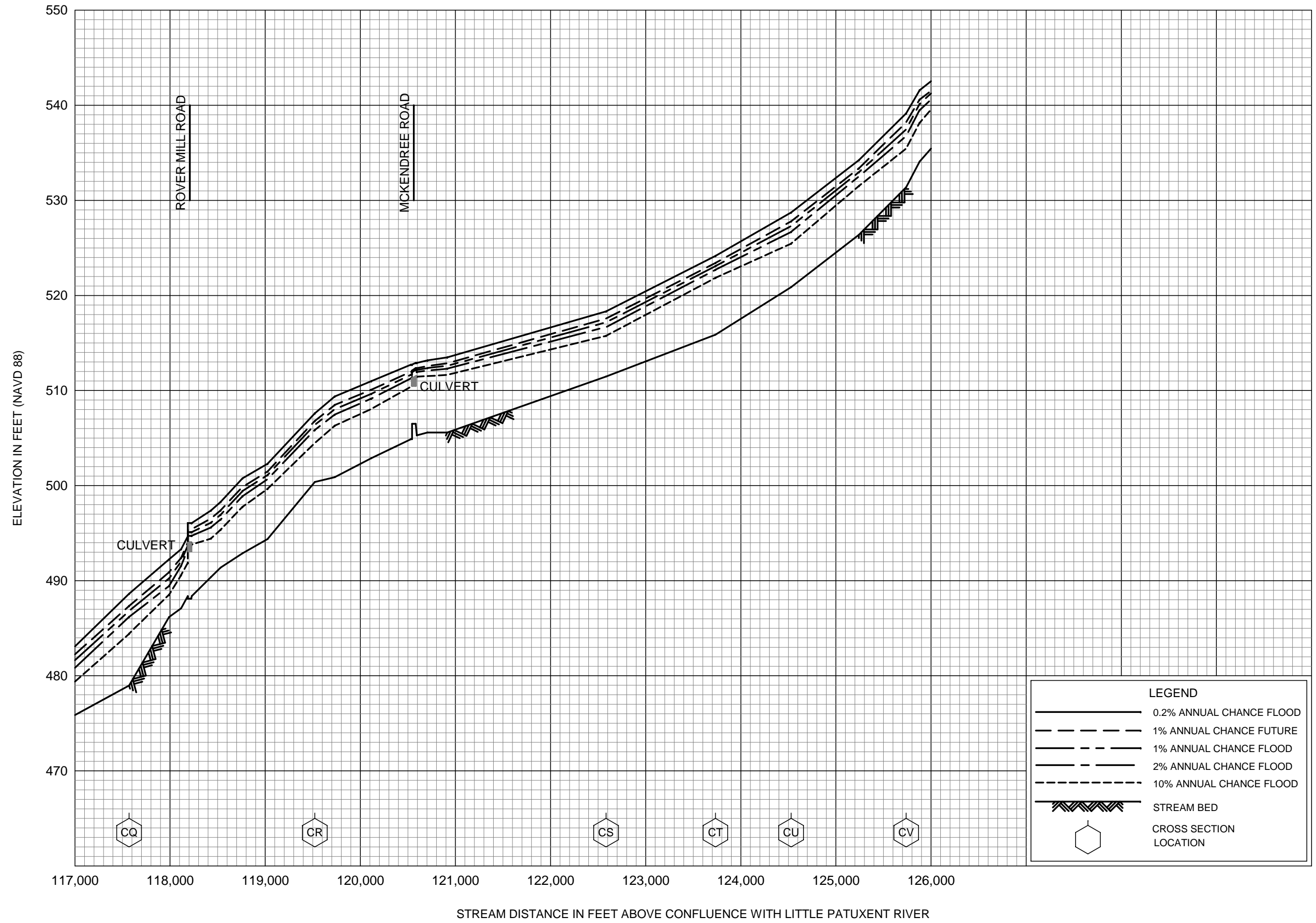
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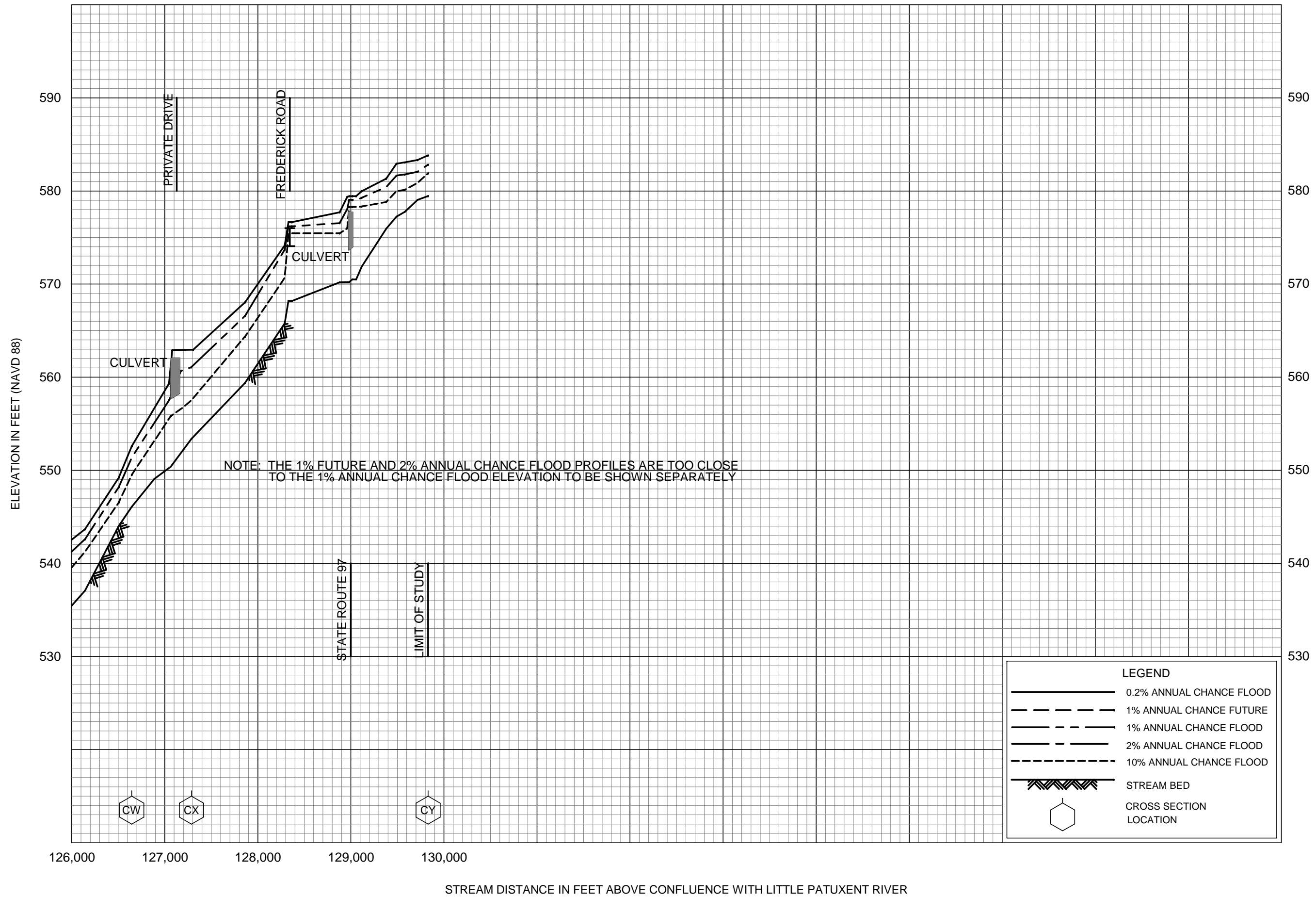


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AND INCORPORATED AREAS



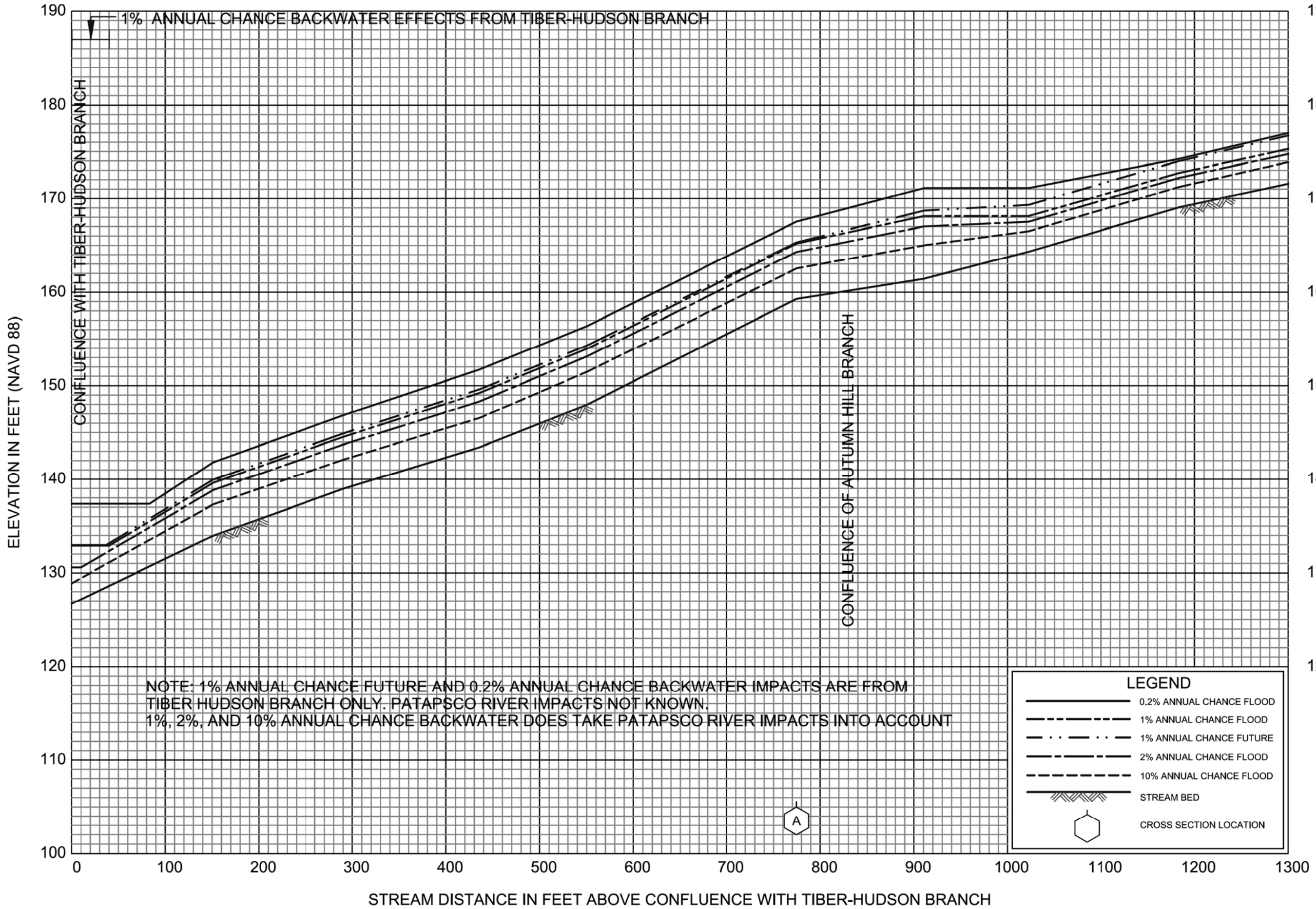
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HOWARD COUNTY, MD

AND INCORPORATED AREAS

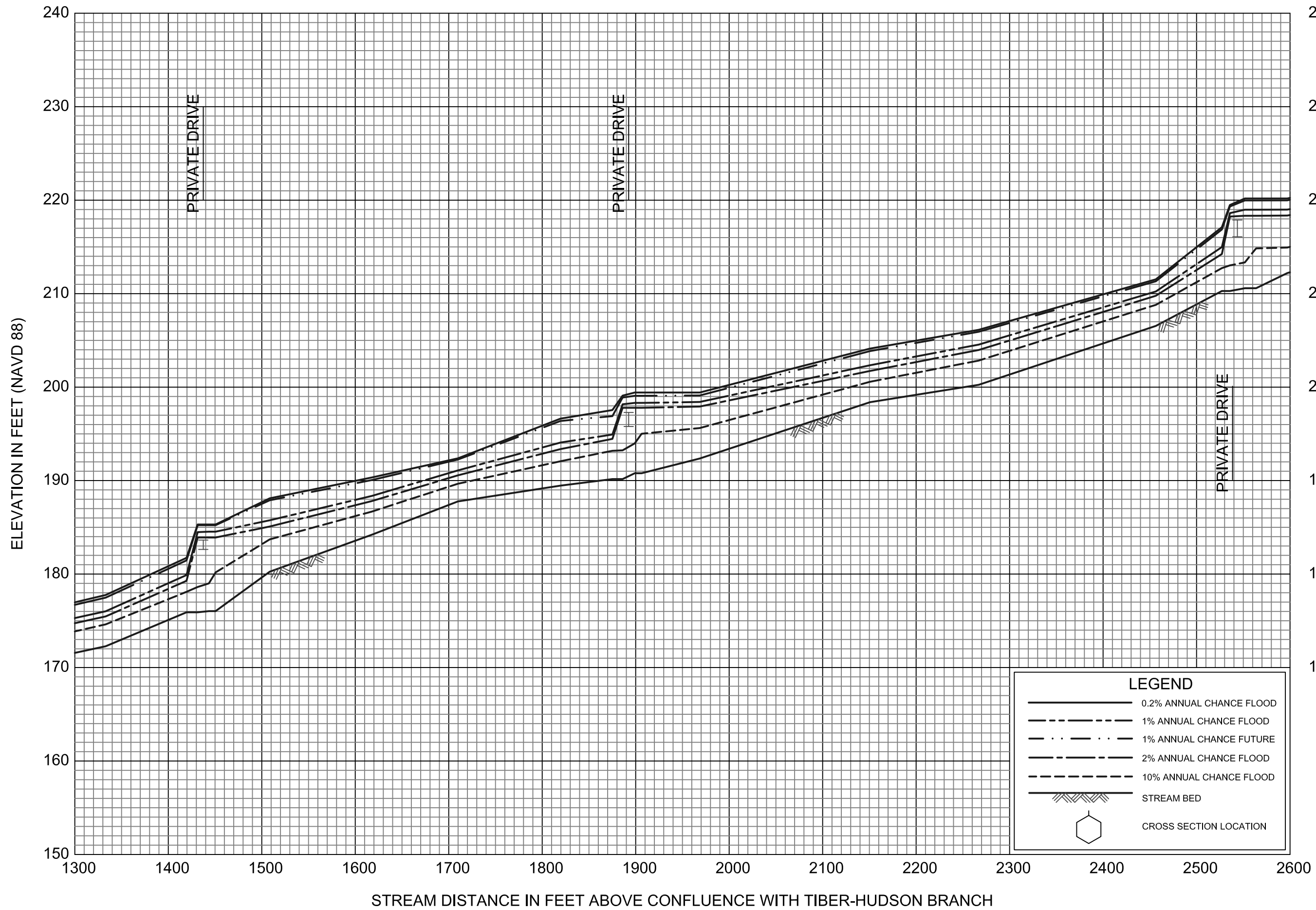


NOTE: 1% ANNUAL CHANCE FUTURE AND 0.2% ANNUAL CHANCE BACKWATER IMPACTS ARE FROM TIBER HUDSON BRANCH ONLY. PATAPSCO RIVER IMPACTS NOT KNOWN. 1%, 2%, AND 10% ANNUAL CHANCE BACKWATER DOES TAKE PATAPSCO RIVER IMPACTS INTO ACCOUNT

LEGEND	
	0.2% ANNUAL CHANCE FLOOD
	1% ANNUAL CHANCE FLOOD
	1% ANNUAL CHANCE FUTURE
	2% ANNUAL CHANCE FLOOD
	10% ANNUAL CHANCE FLOOD
	STREAM BED
	CROSS SECTION LOCATION

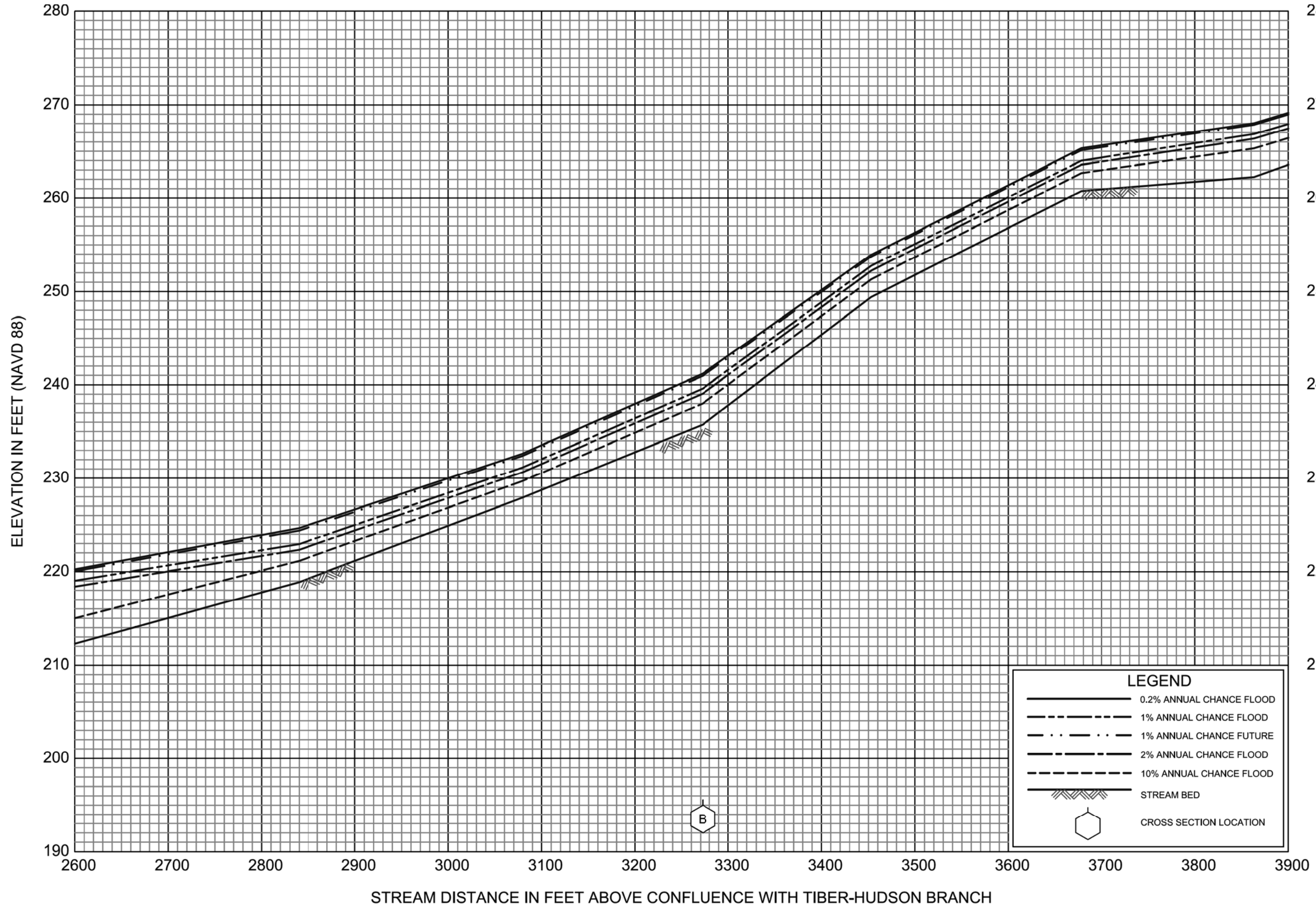
FLOOD PROFILES  
NEW CUT BRANCH

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NEW CUT BRANCH**

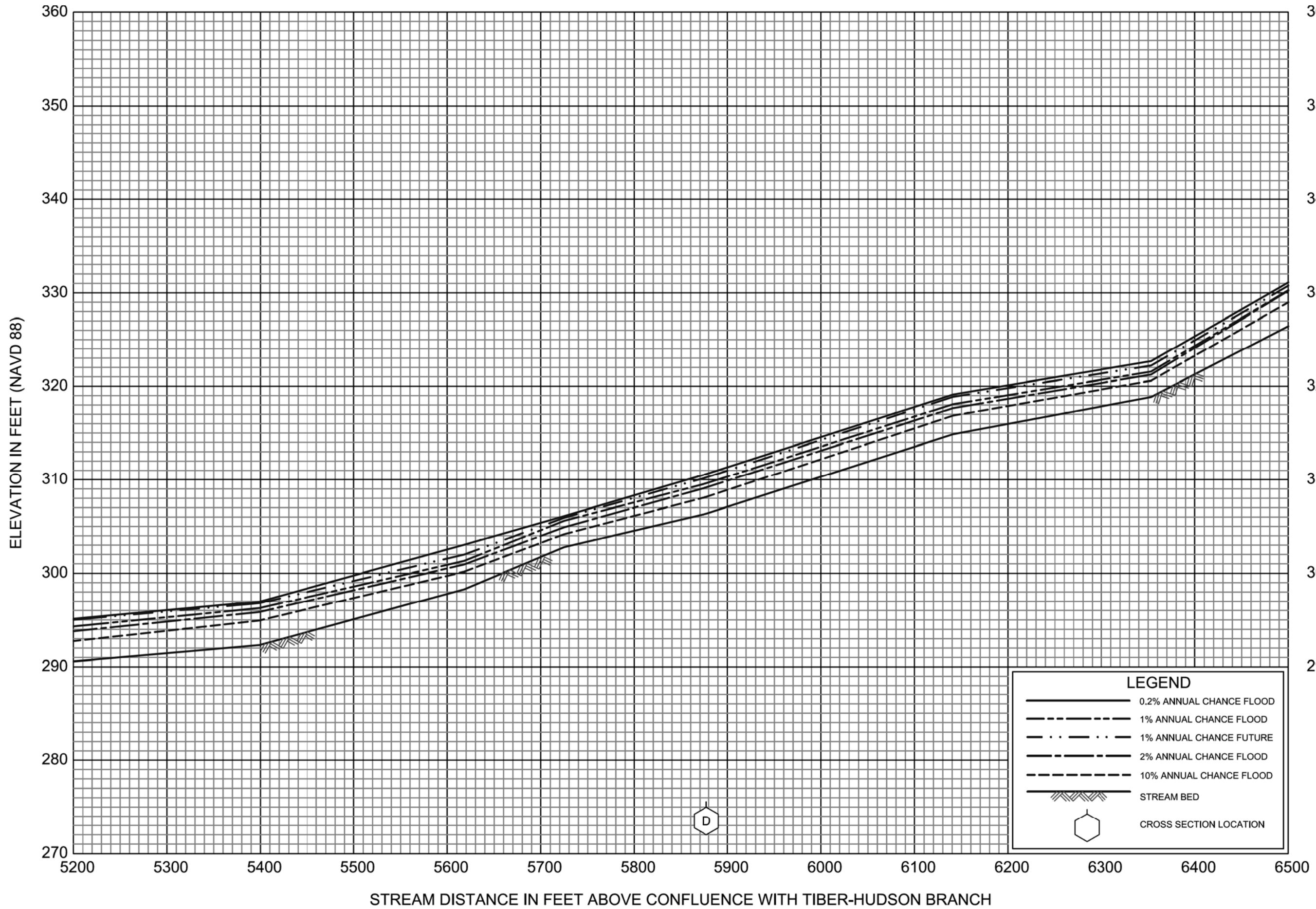
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AND INCORPORATED AREAS



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NEW CUT BRANCH

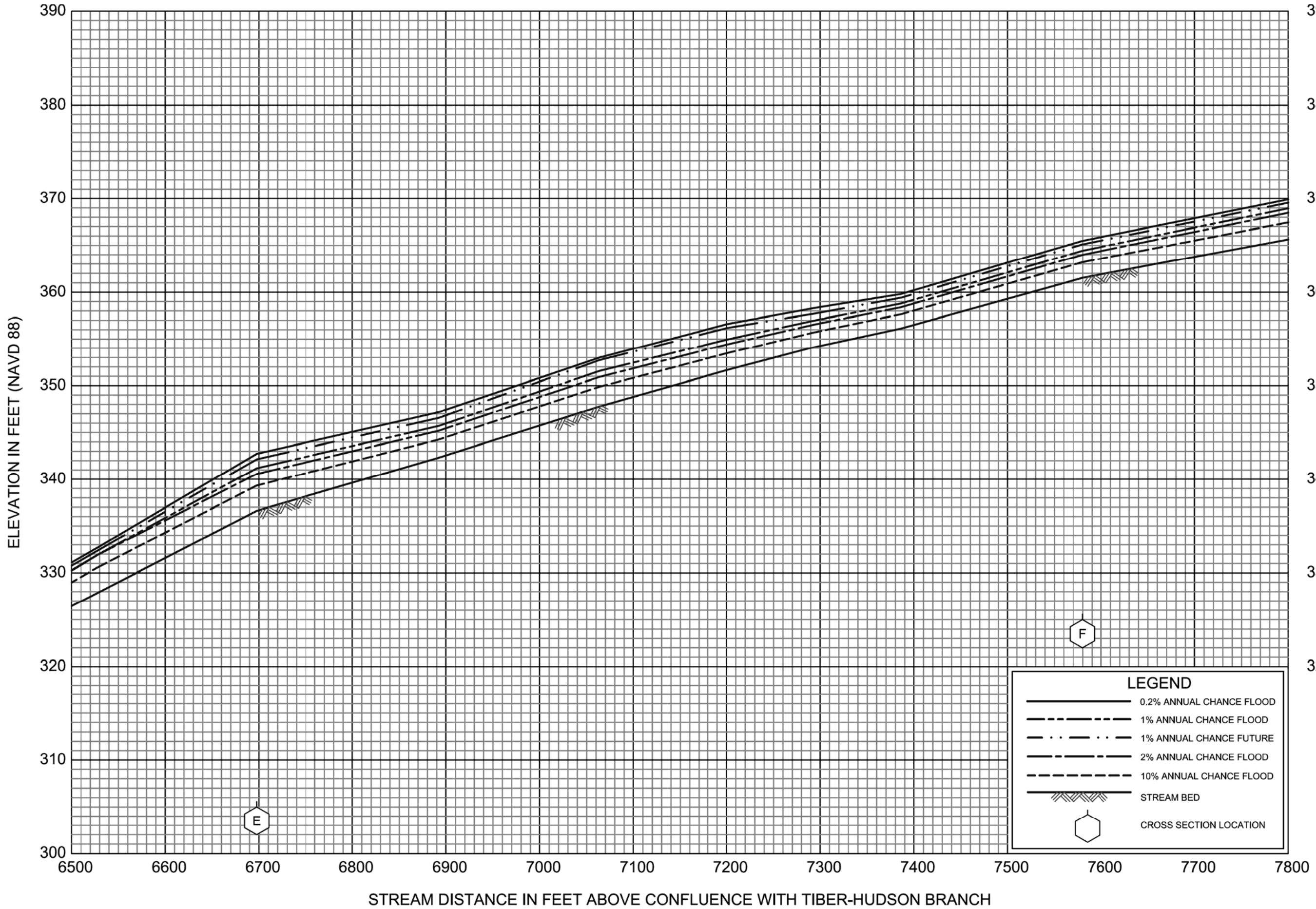
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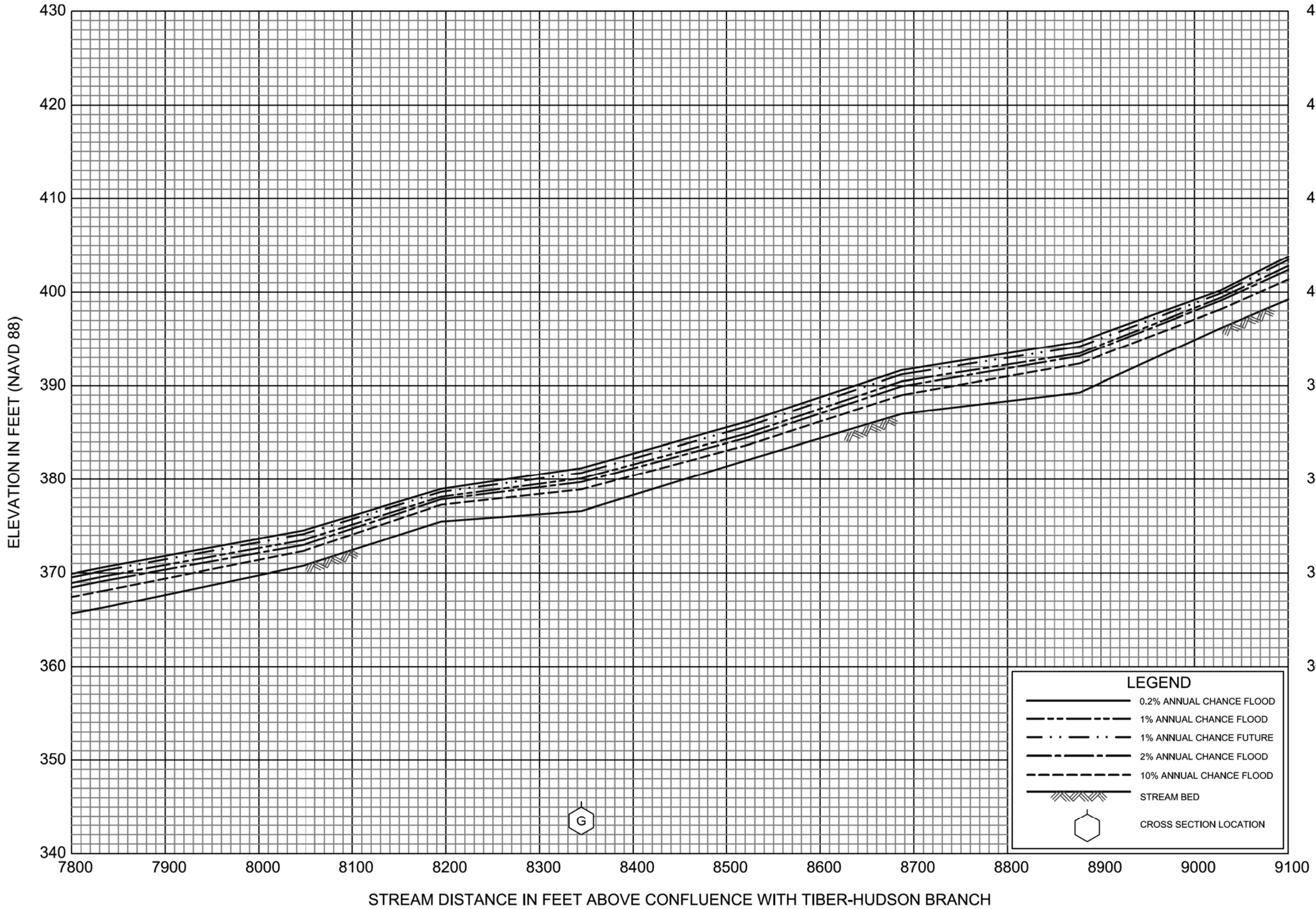
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**HOWARD COUNTY, MD**  
AND INCORPORATED AREAS



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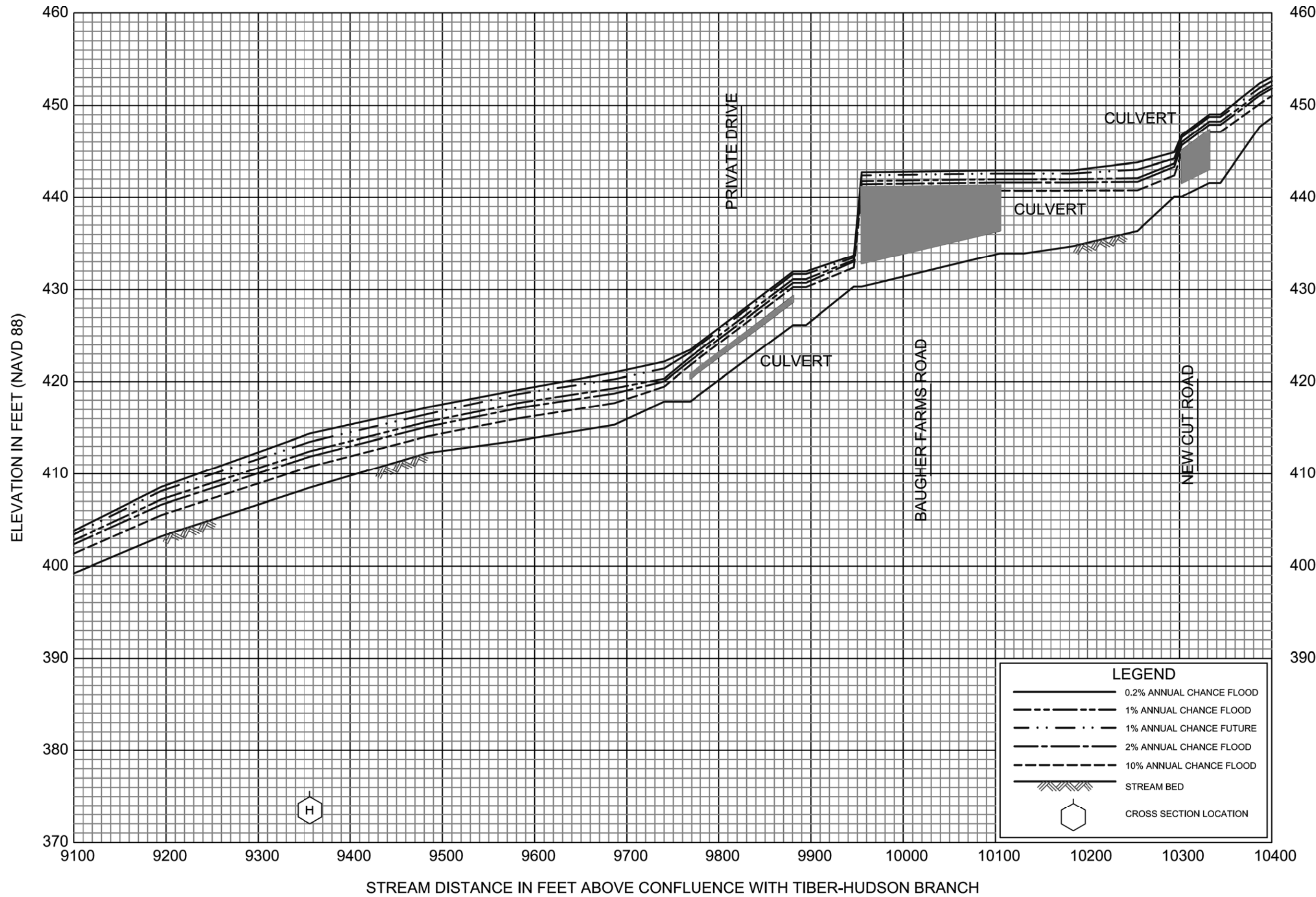


**LEGEND**

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- - - - 10% ANNUAL CHANCE FLOOD
- / / / / / STREAM BED
- ⬡ CROSS SECTION LOCATION

**FLOOD PROFILES**  
**NEW CUT BRANCH**

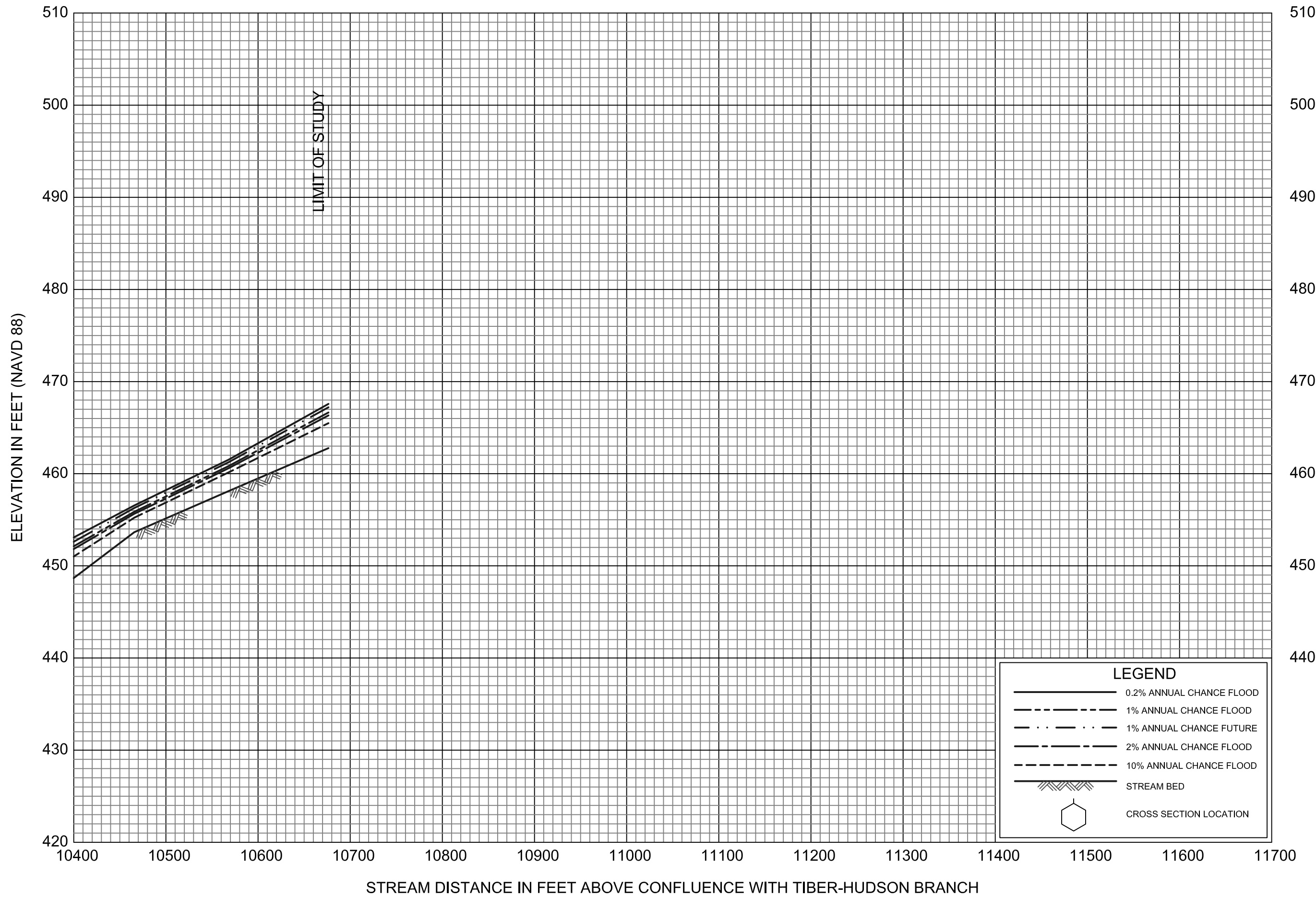
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 AND INCORPORATED AREAS



**FLOOD PROFILES**

**NEW CUT BRANCH**

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**HOWARD COUNTY, MD**  
 AND INCORPORATED AREAS



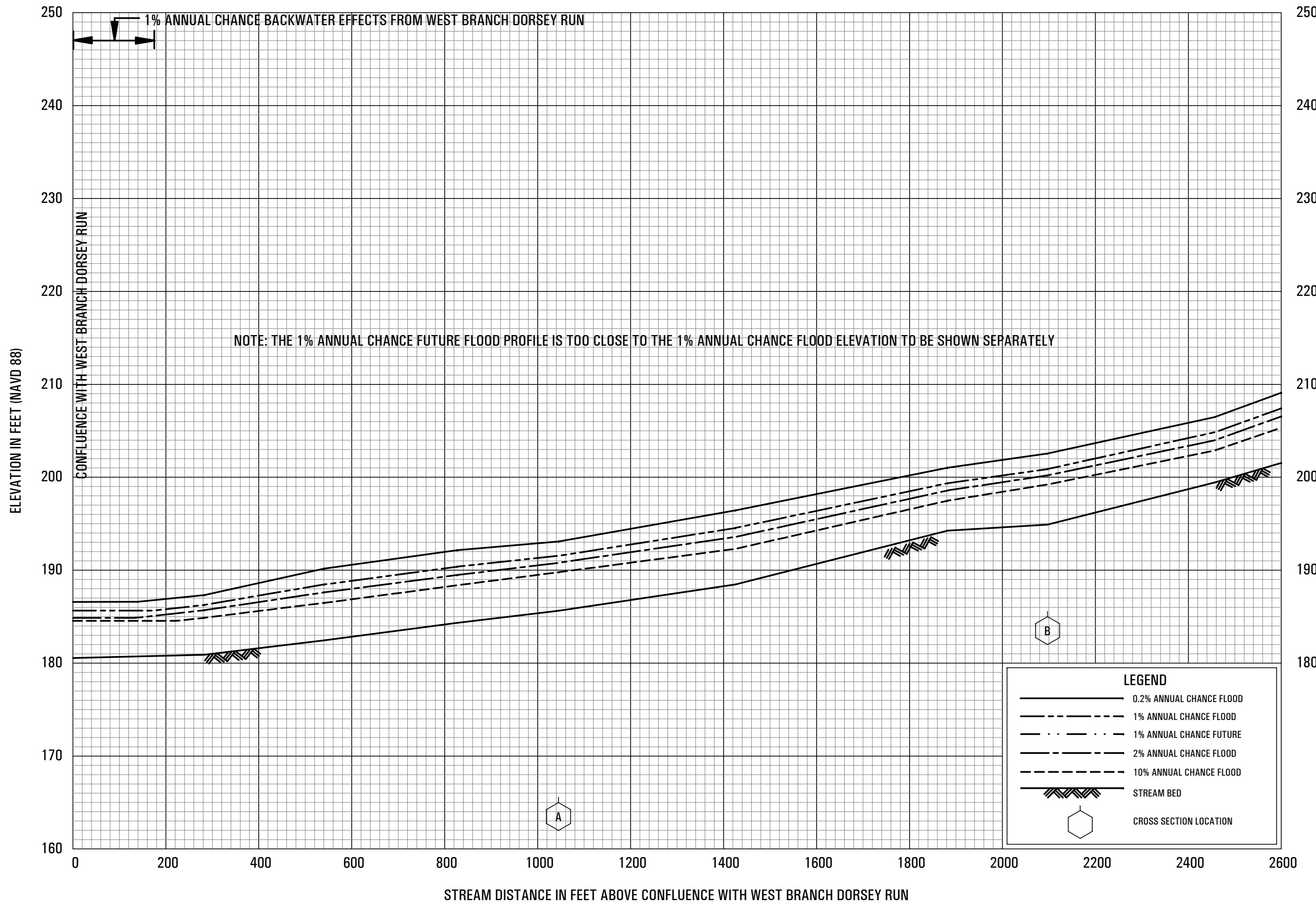
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- / / / / — STREAM BED
- ⬡ CROSS SECTION LOCATION

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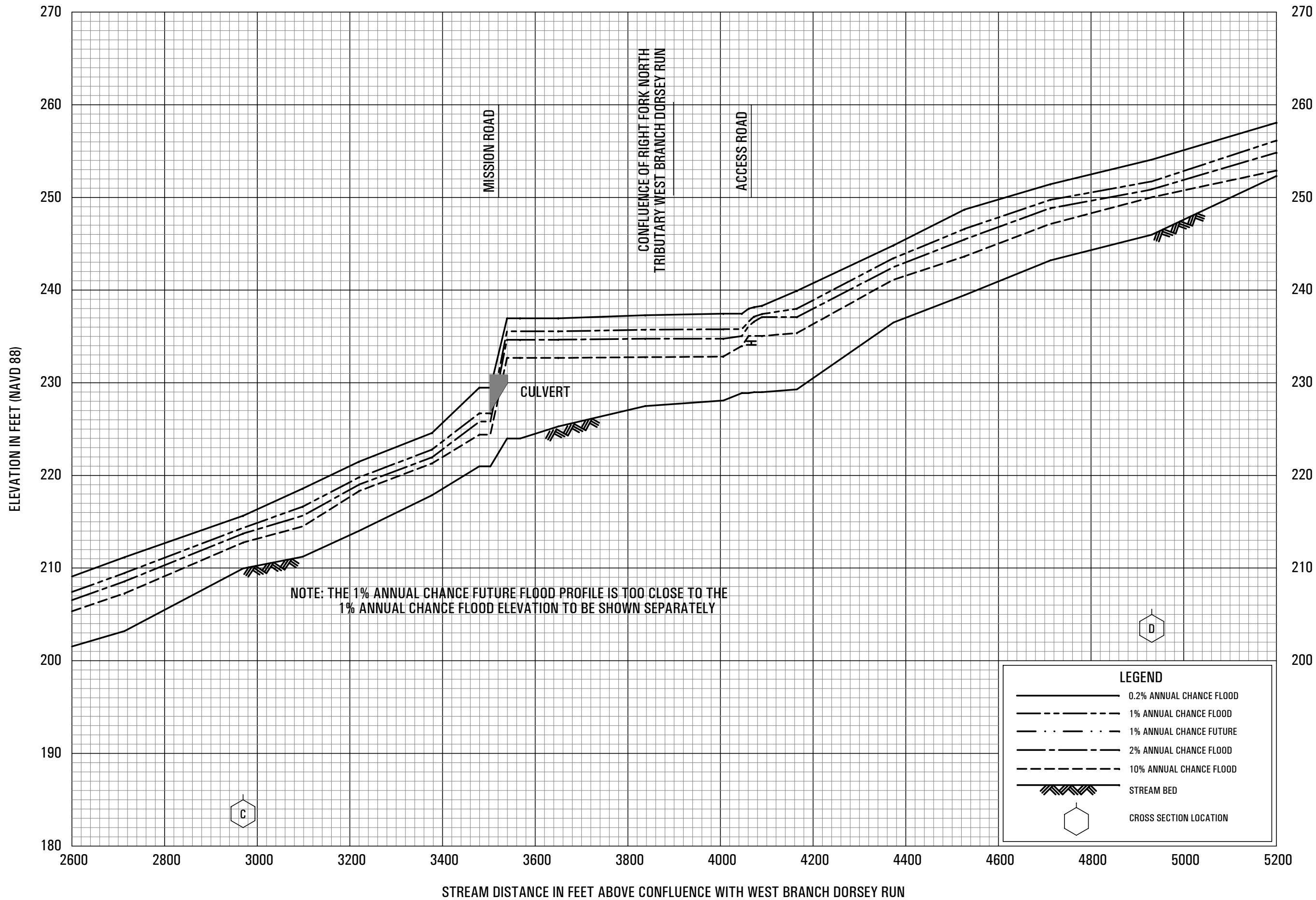
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**NEW CUT BRANCH**

**93P**



**FLOOD PROFILES**  
**NORTH TRIBUTARY WEST BRANCH DORSEY RUN**

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 AND INCORPORATED AREAS



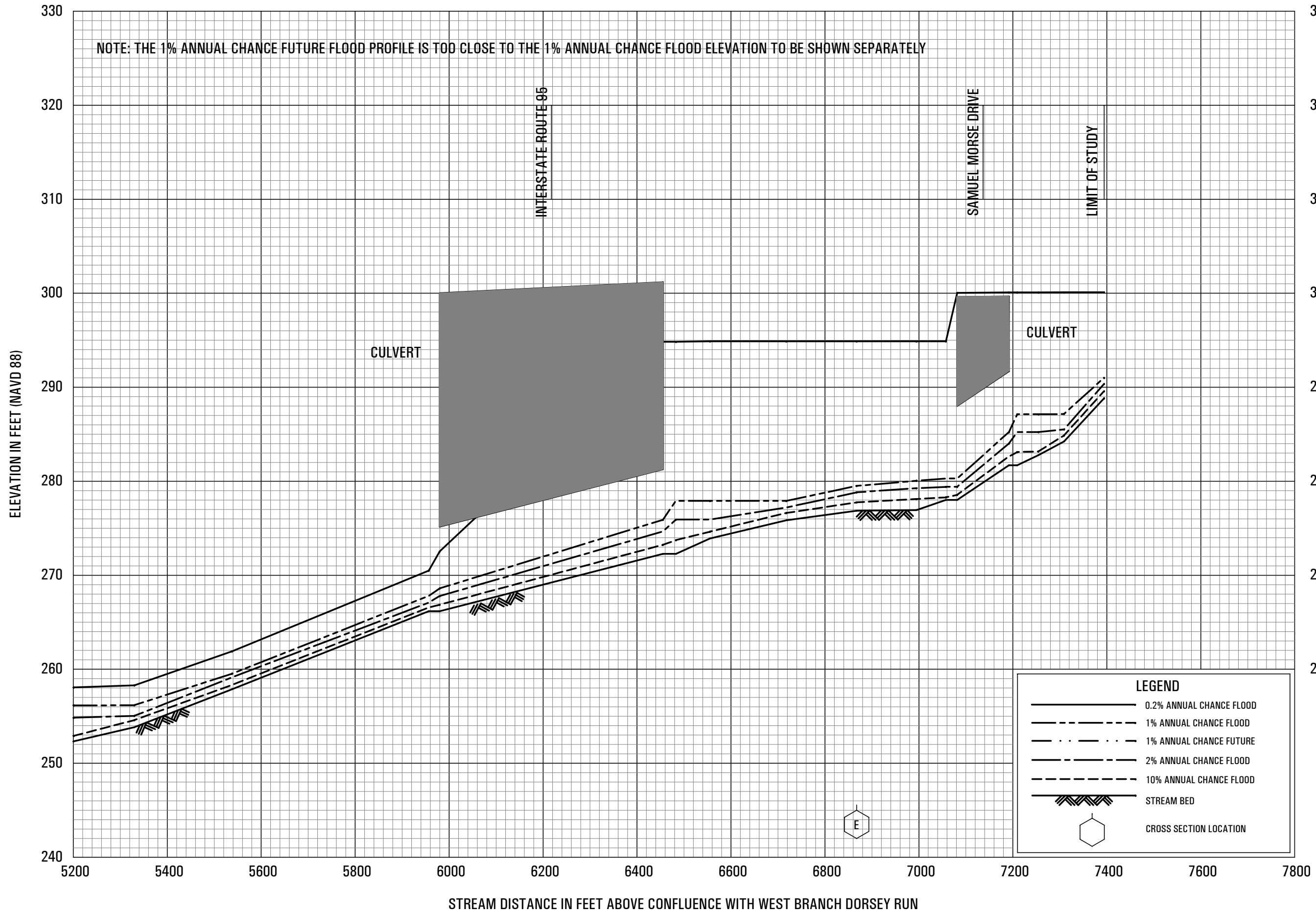
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**NORTH TRIBUTARY WEST BRANCH DORSEY RUN**

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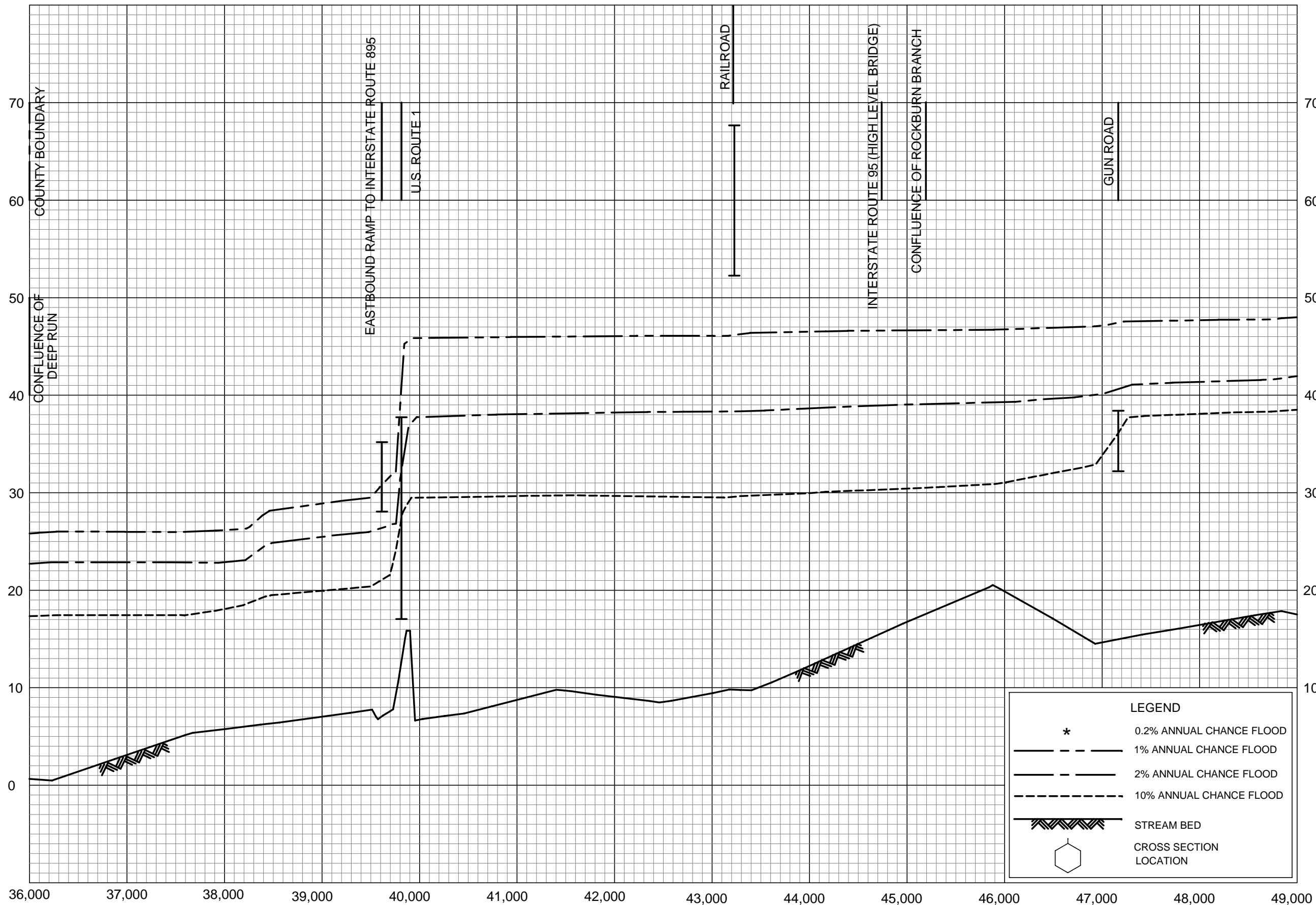
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NORTH TRIBUTARY WEST BRANCH DORSEY RUN

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ELEVATION IN FEET (NAVD 88)



STREAM DISTANCE IN FEET ABOVE HANOVER STREET

\* - DATA NOT AVAILABLE

FLOOD PROFILES

PATAPSCO RIVER

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HOWARD COUNTY, MD

AND INCORPORATED AREAS

97P

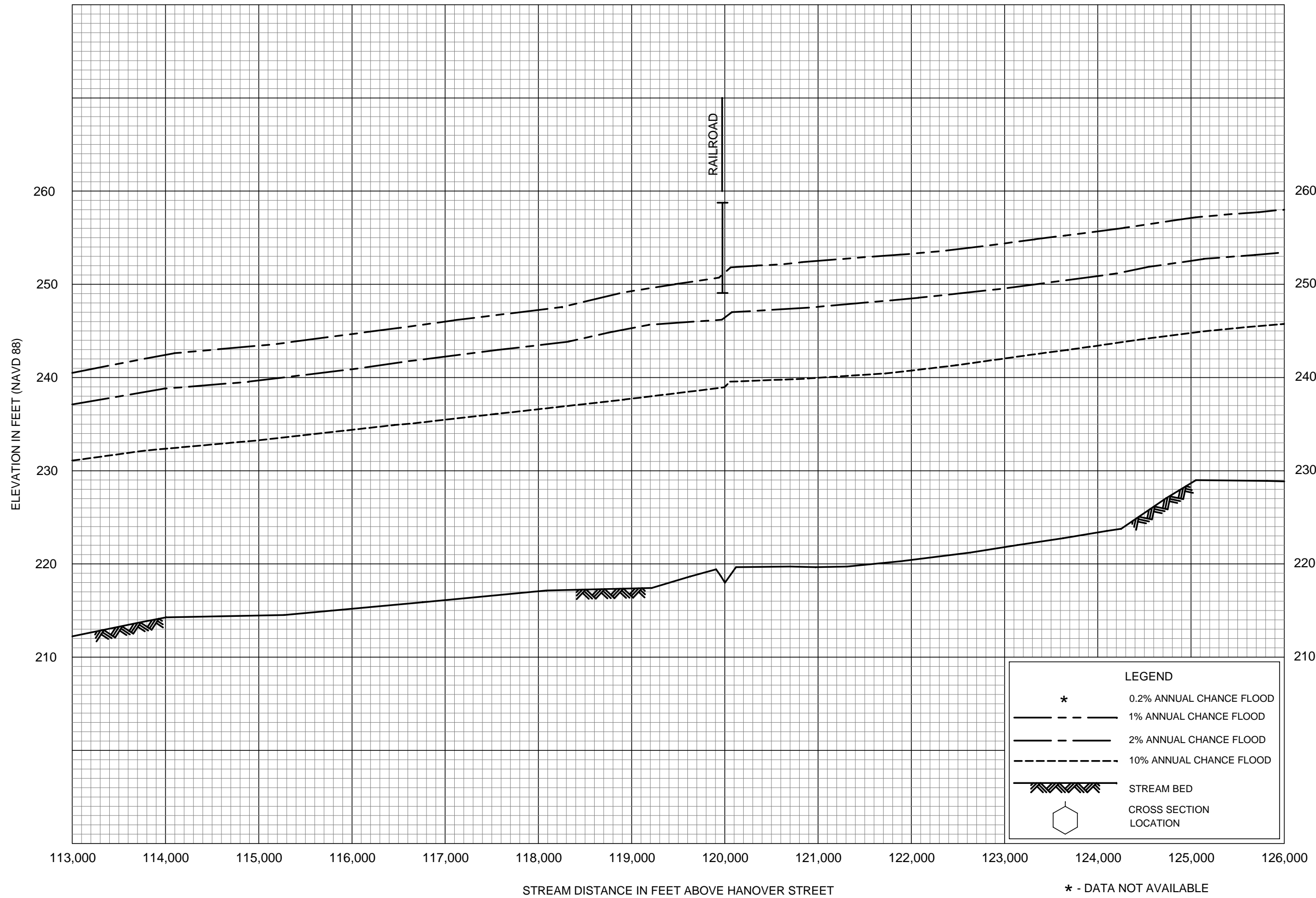








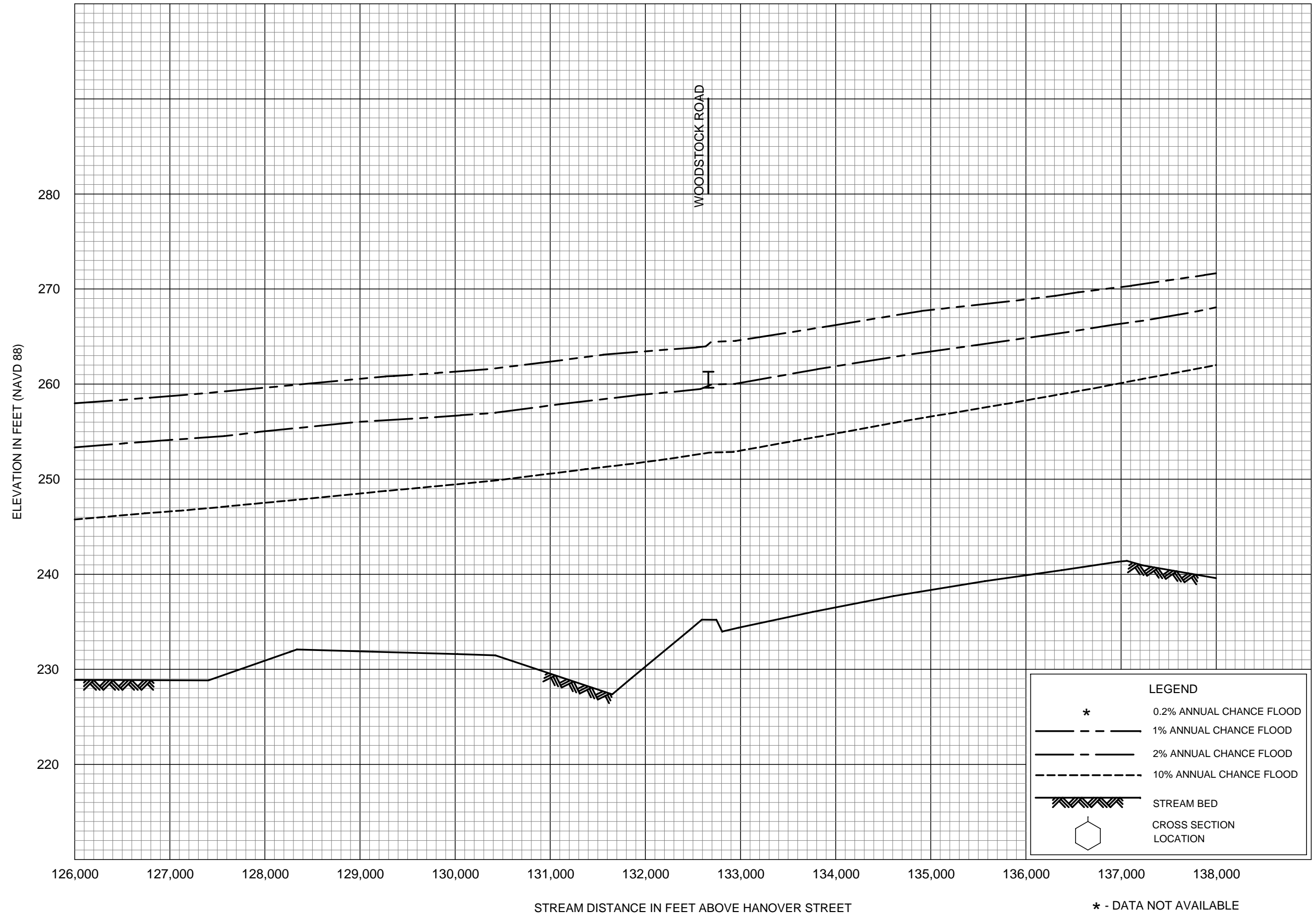




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PATAPSCO RIVER

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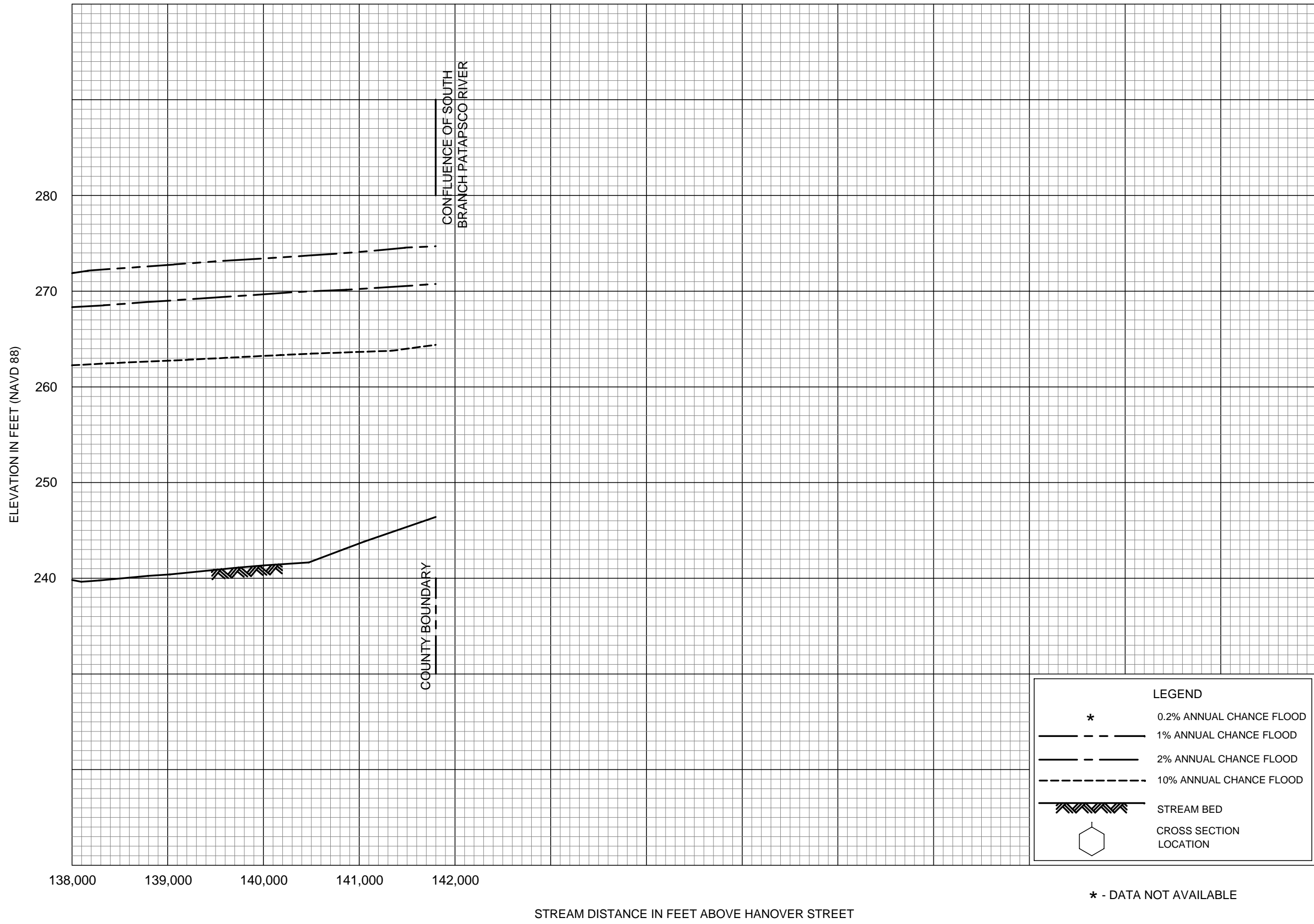
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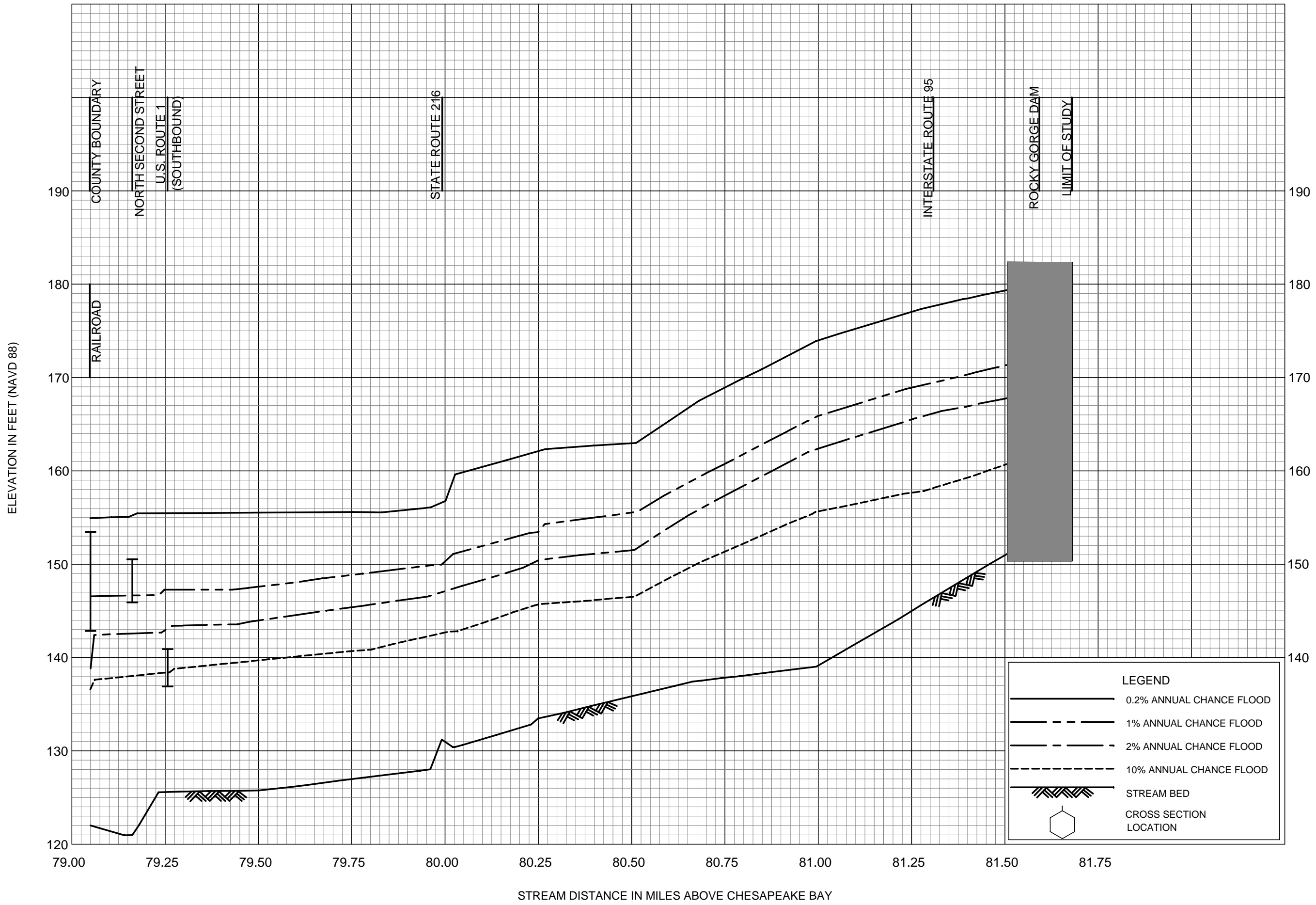
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PATAPSCO RIVER

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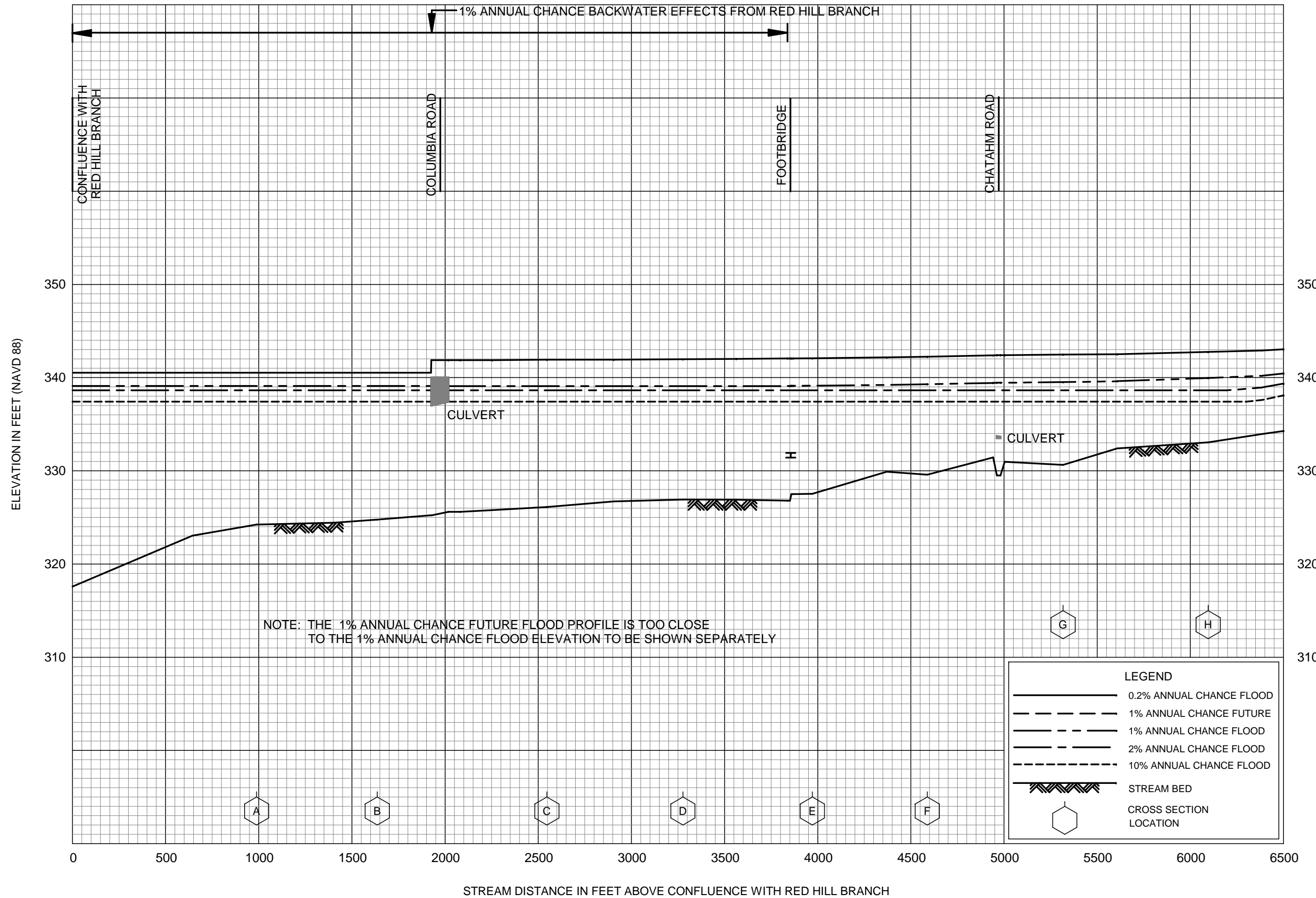


**FLOOD PROFILES**

**PATUXENT RIVER**

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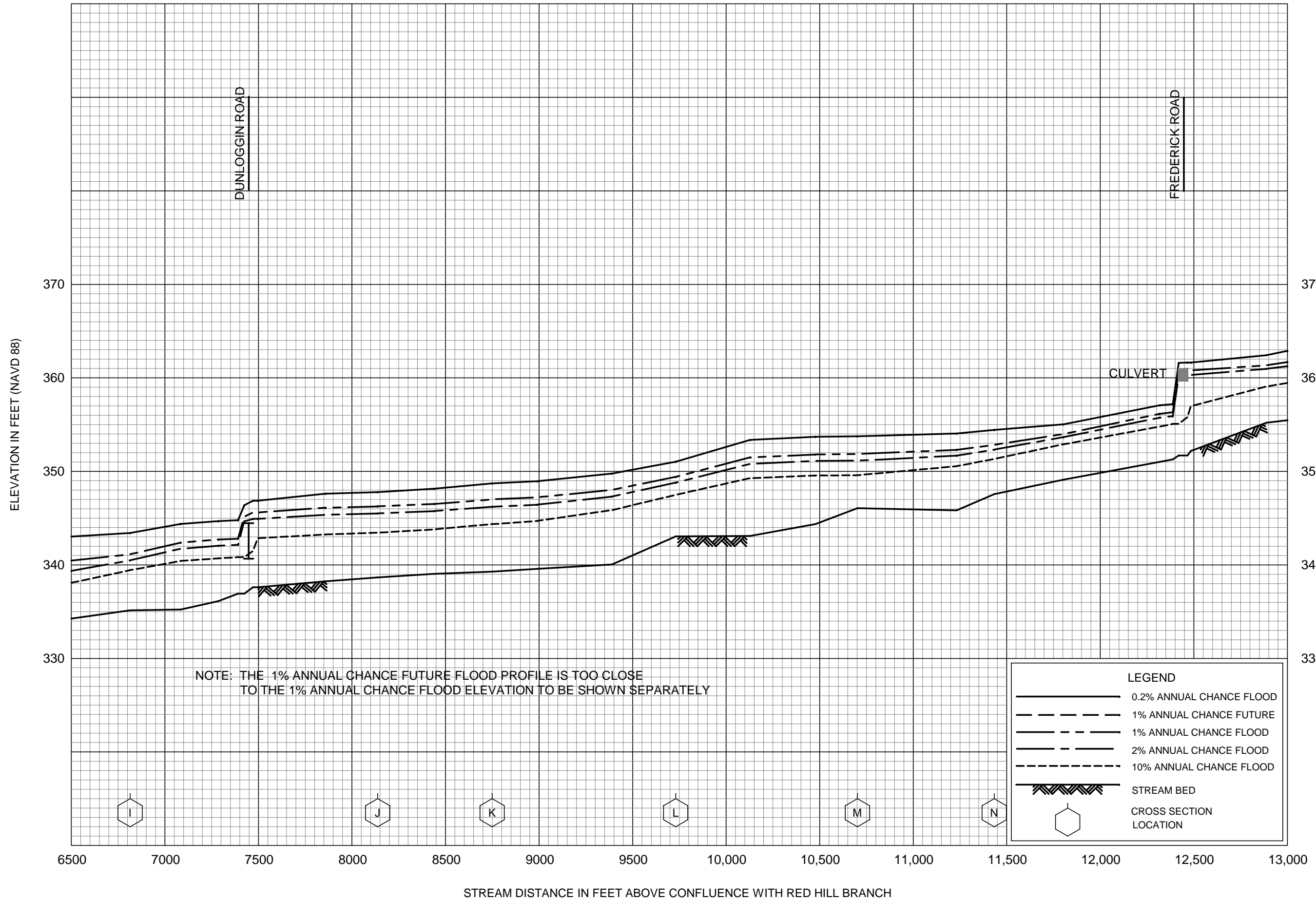


FLOOD PROFILES

PLUMTREE BRANCH

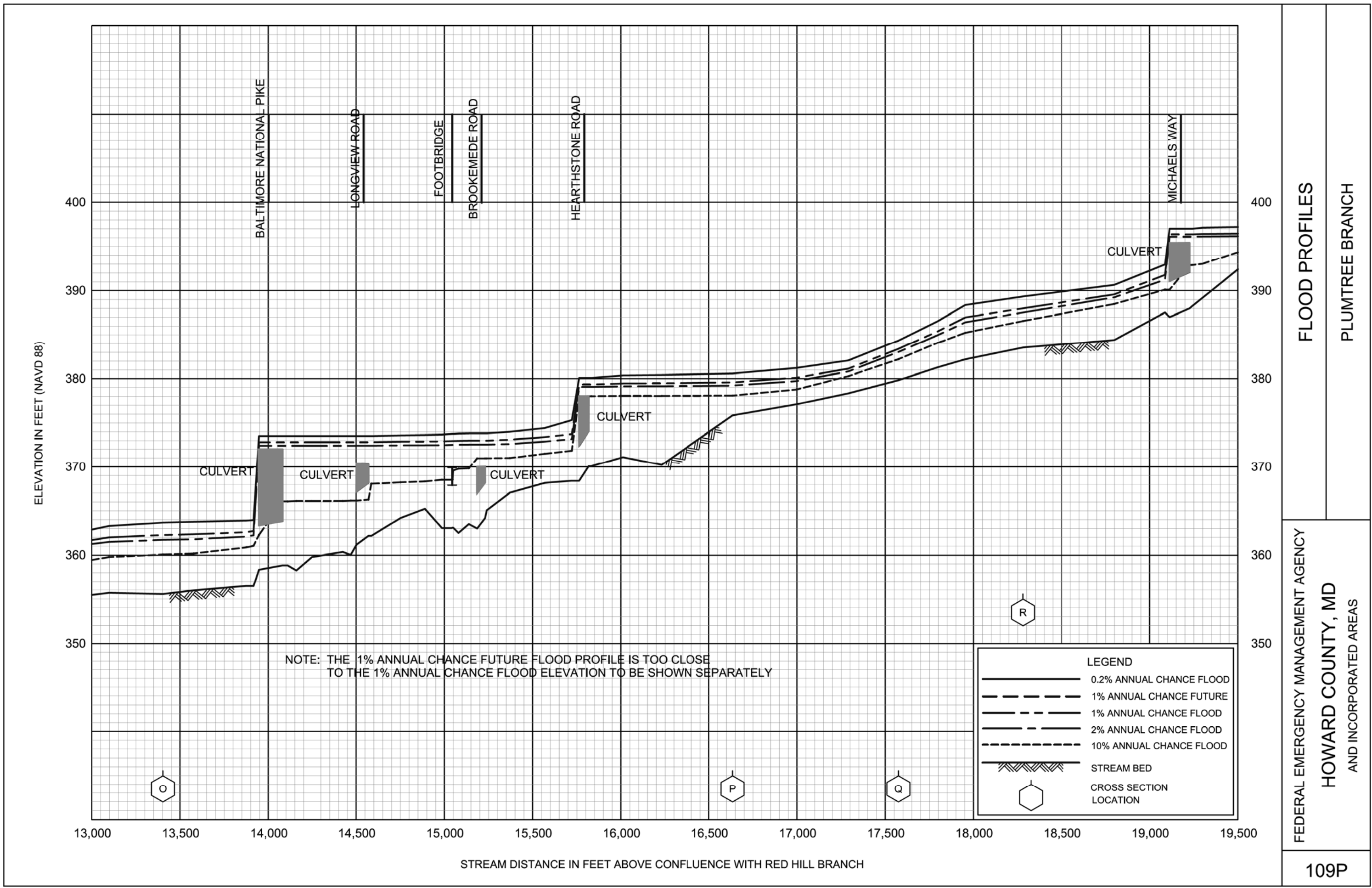
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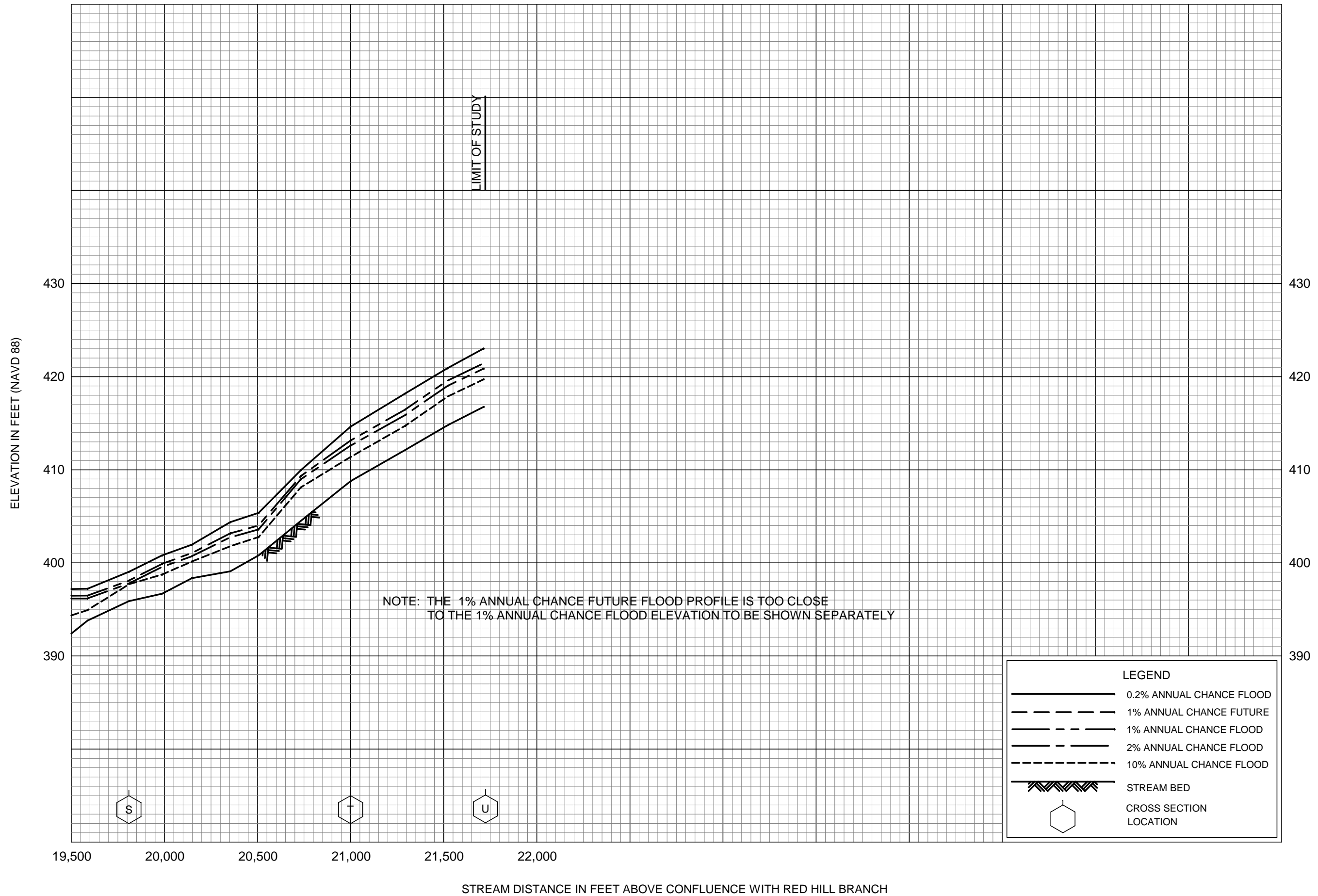
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FLOOD PROFILES  
PLUMTREE BRANCH

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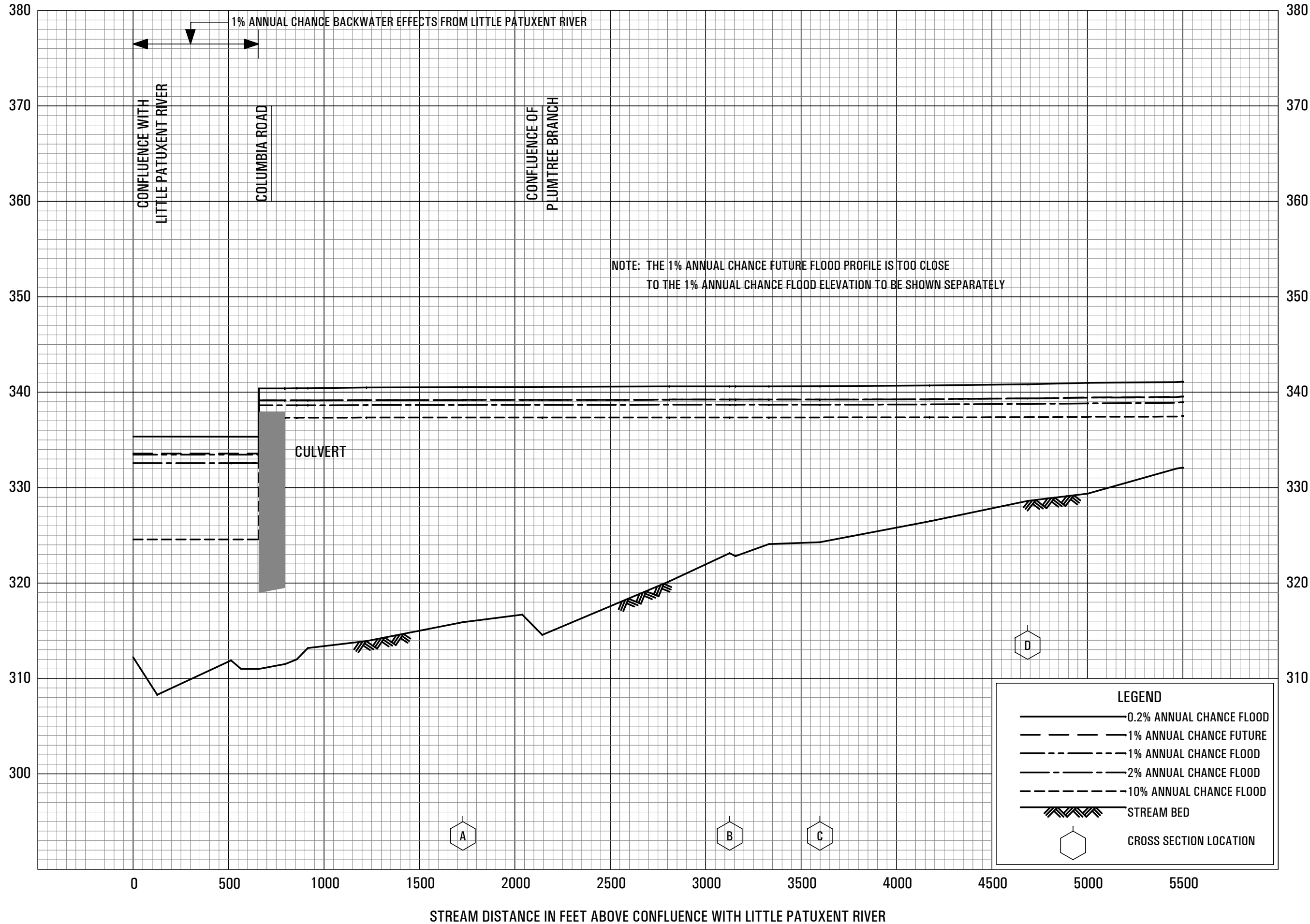




FLOOD PROFILES  
PLUMTREE BRANCH

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ELEVATION IN FEET (NAVD 88)



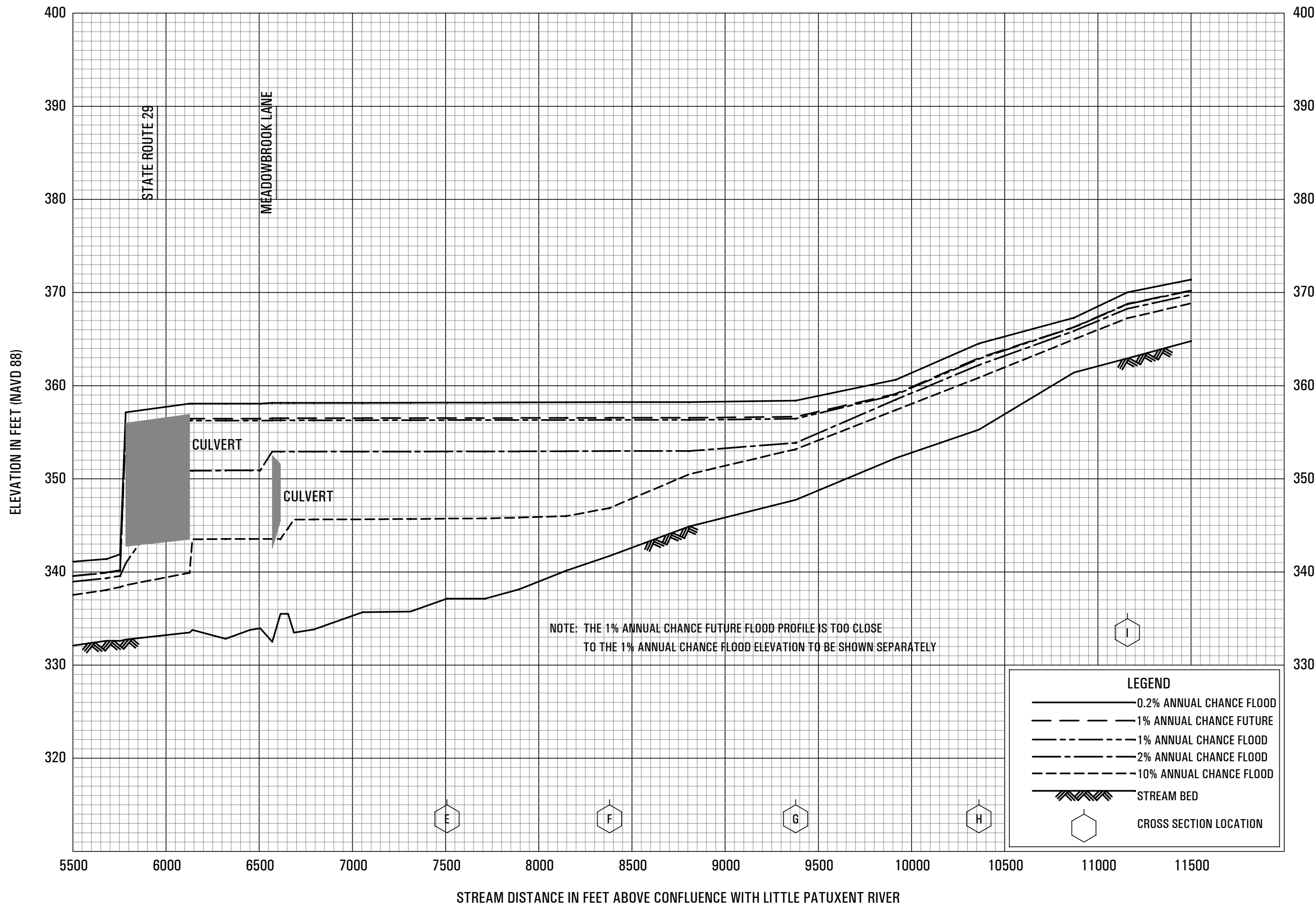
FLOOD PROFILES

RED HILL BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY

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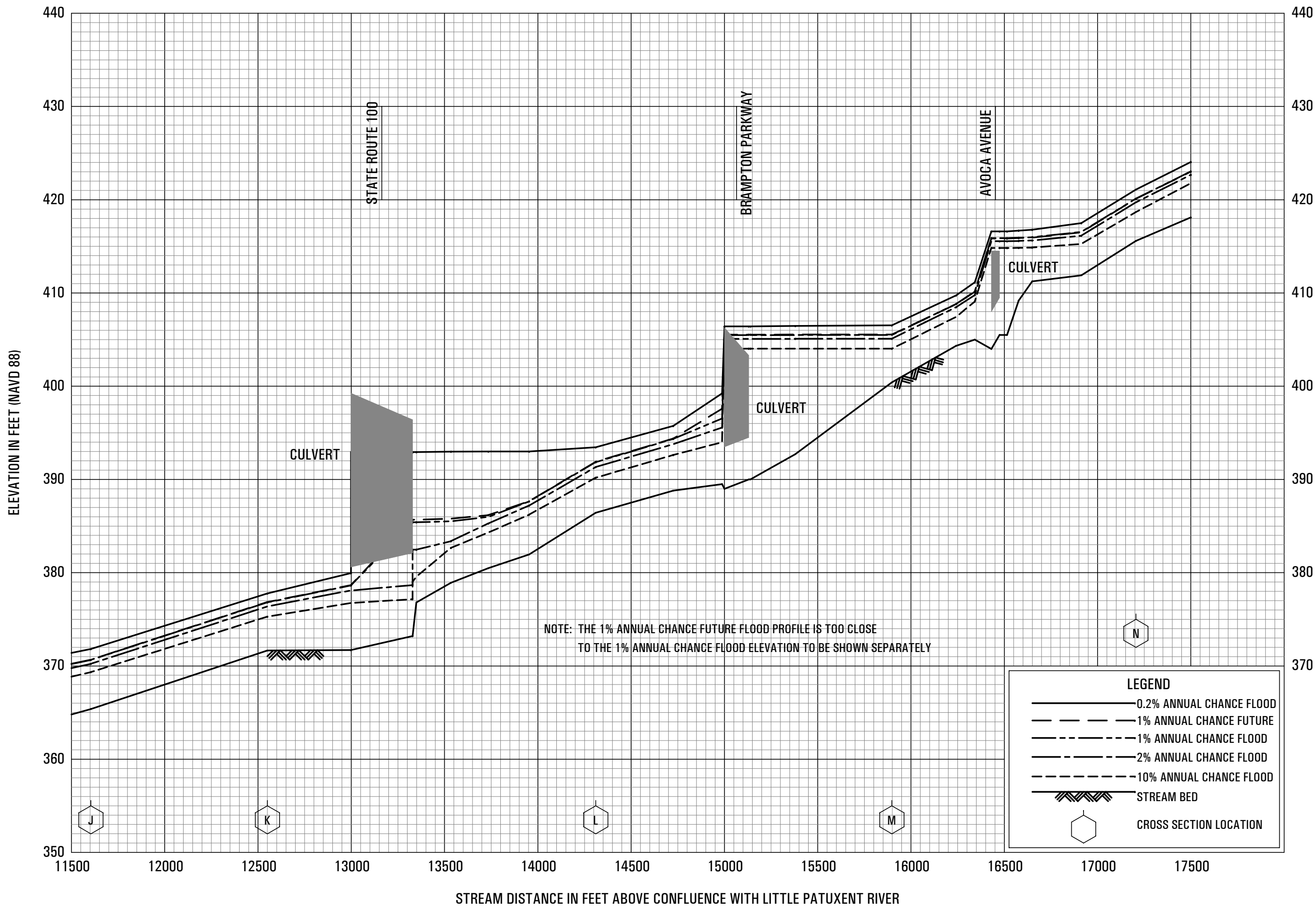


**FLOOD PROFILES**

**RED HILL BRANCH**

**FEDERAL EMERGENCY MANAGEMENT AGENCY**

**HOWARD COUNTY, MD  
AND INCORPORATED AREAS**



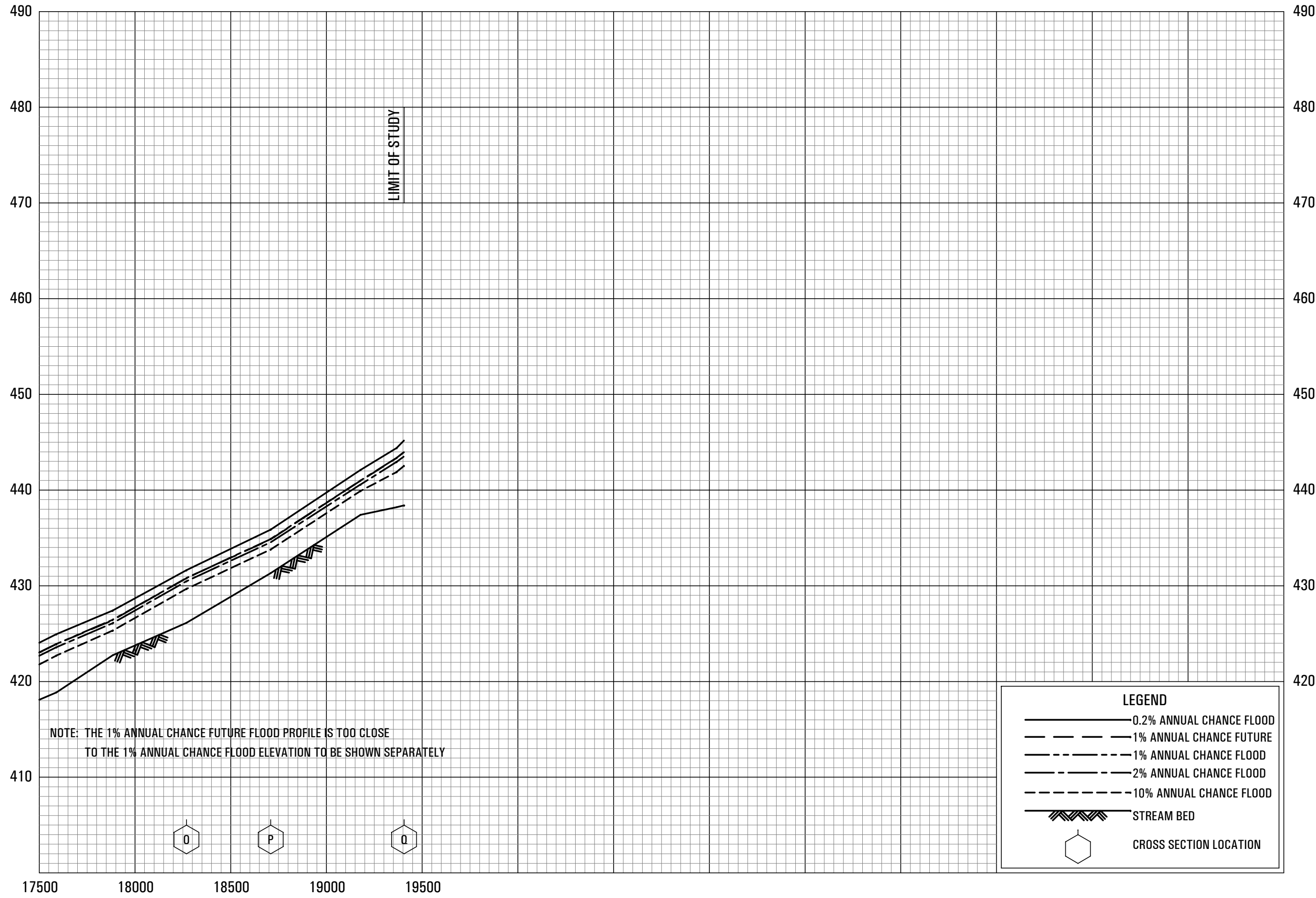
**FLOOD PROFILES**

**RED HILL BRANCH**

**FEDERAL EMERGENCY MANAGEMENT AGENCY**

**HOWARD COUNTY, MD  
AND INCORPORATED AREAS**

ELEVATION IN FEET (NAVD 88)

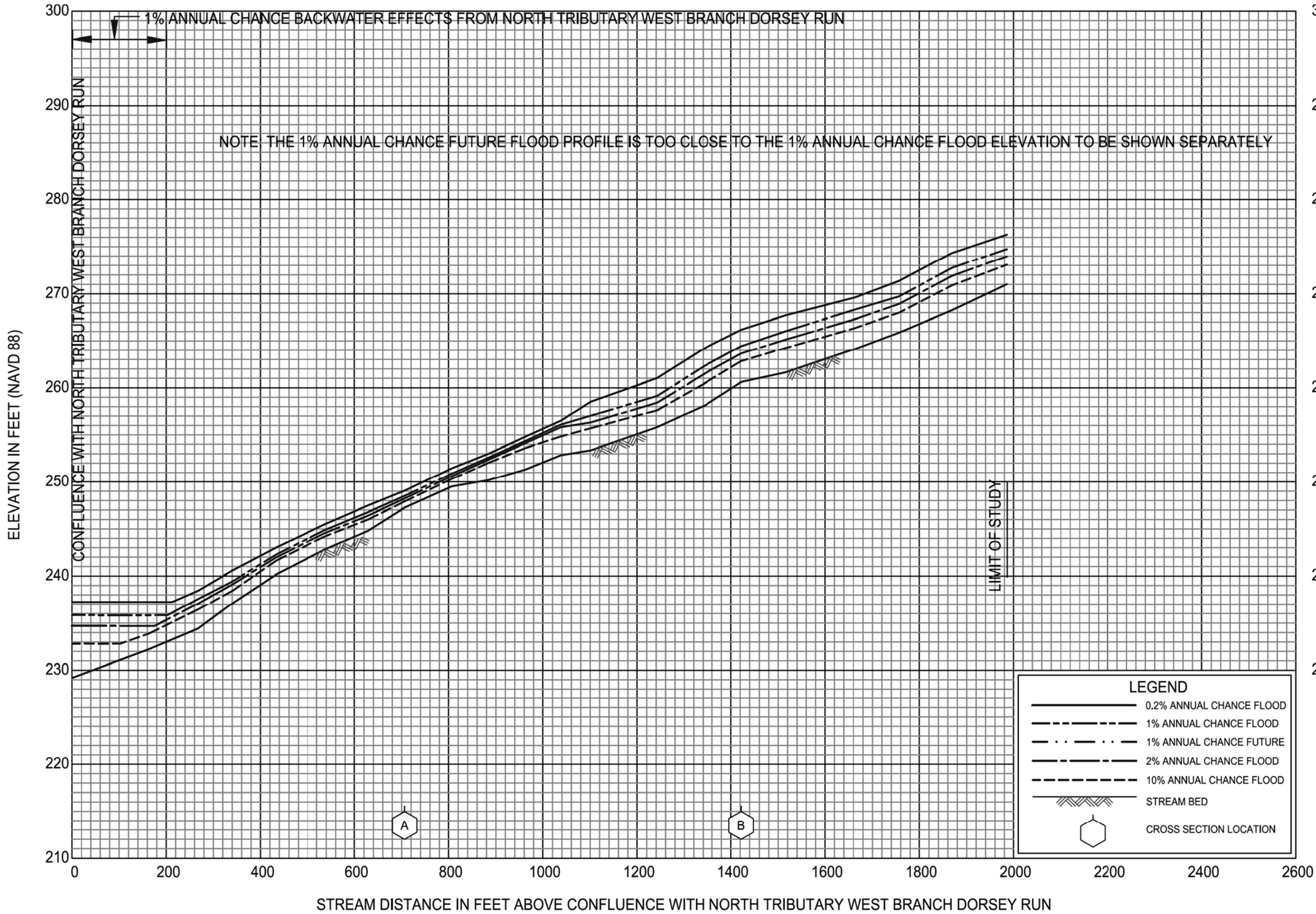


FLOOD PROFILES

RED HILL BRANCH

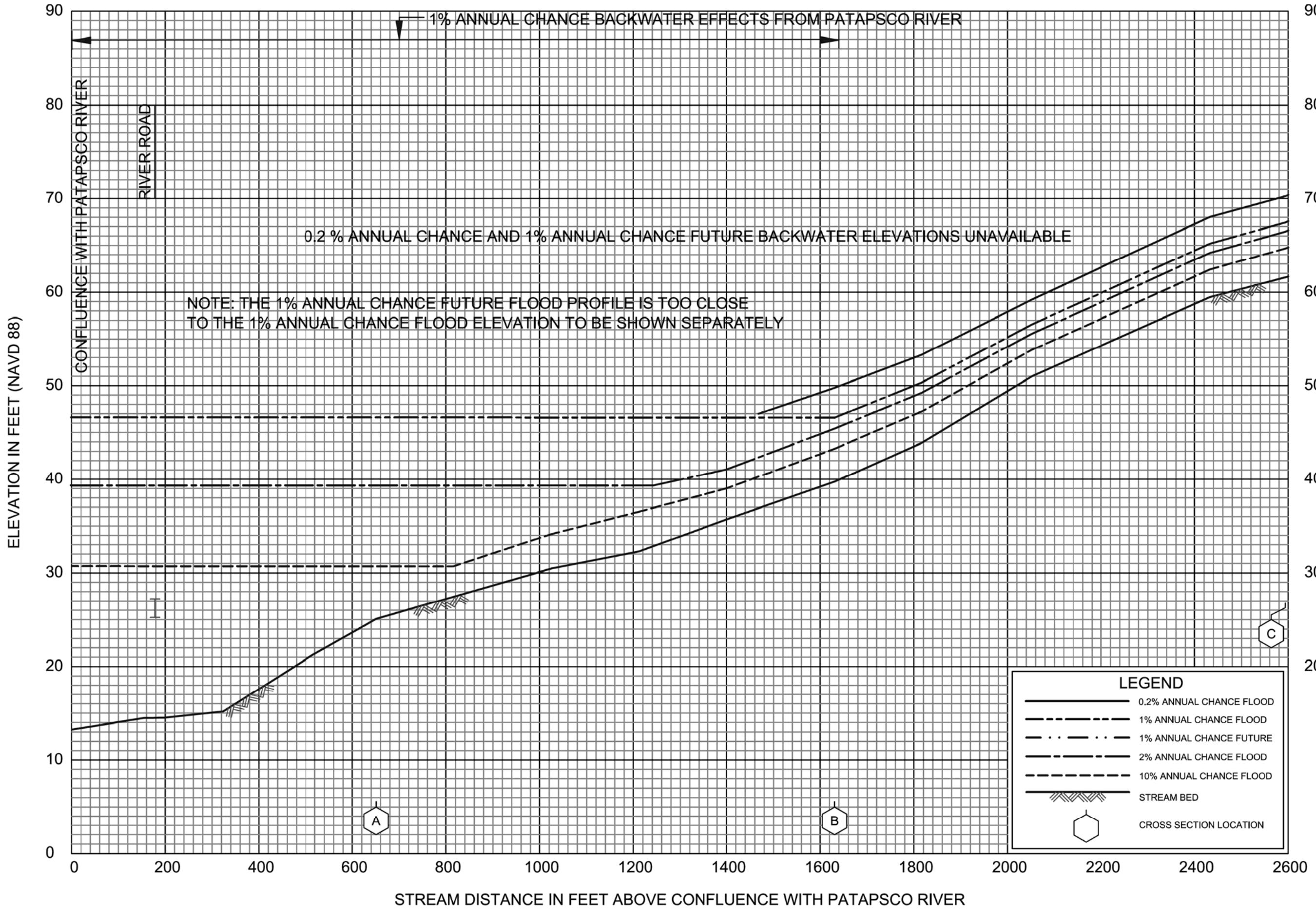
FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD  
AND INCORPORATED AREAS



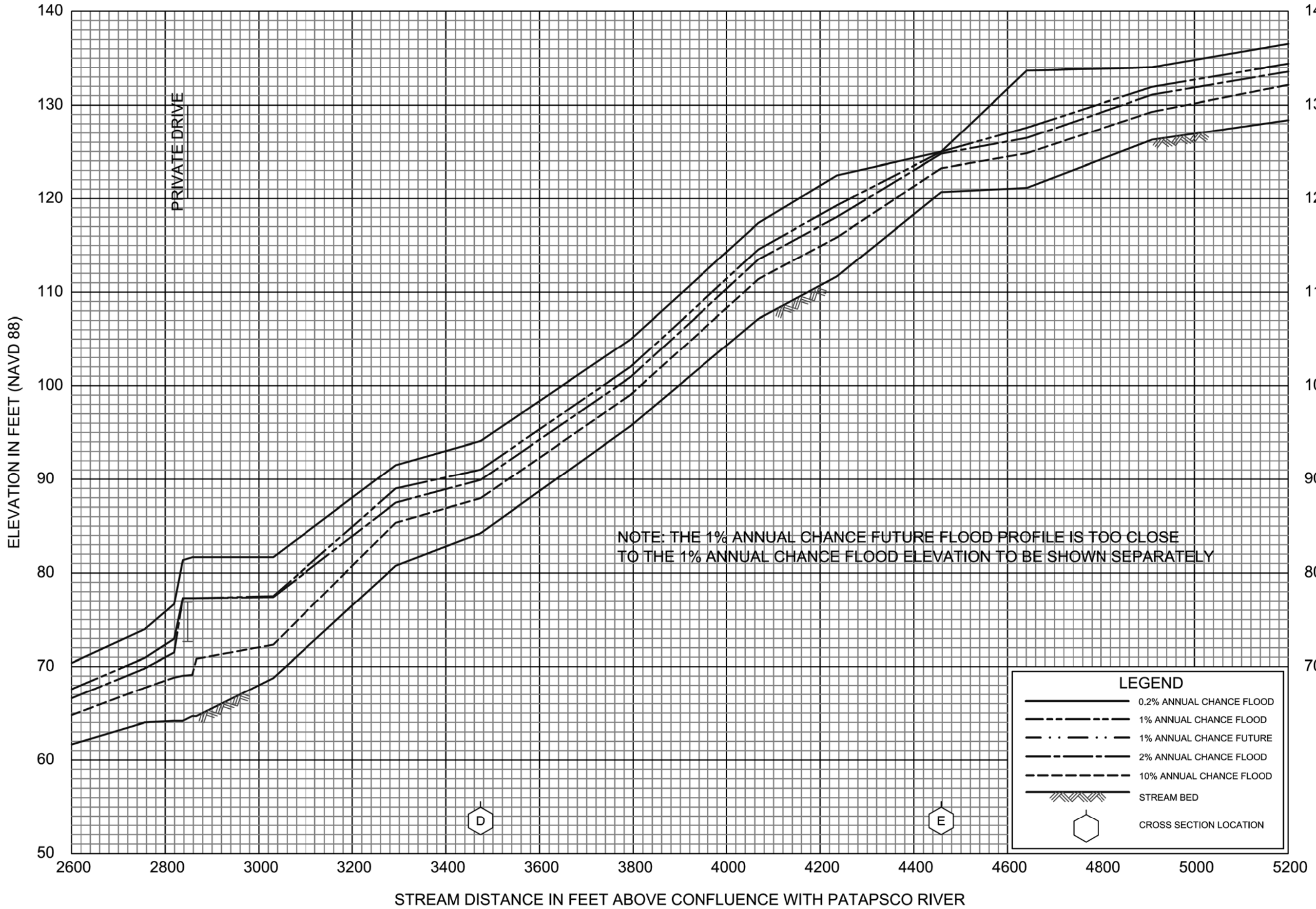
**FLOOD PROFILES**  
 RIGHT FORK NORTH TRIBUTARY WEST BRANCH DORSEY RUN

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**HOWARD COUNTY, MD**  
 AND INCORPORATED AREAS



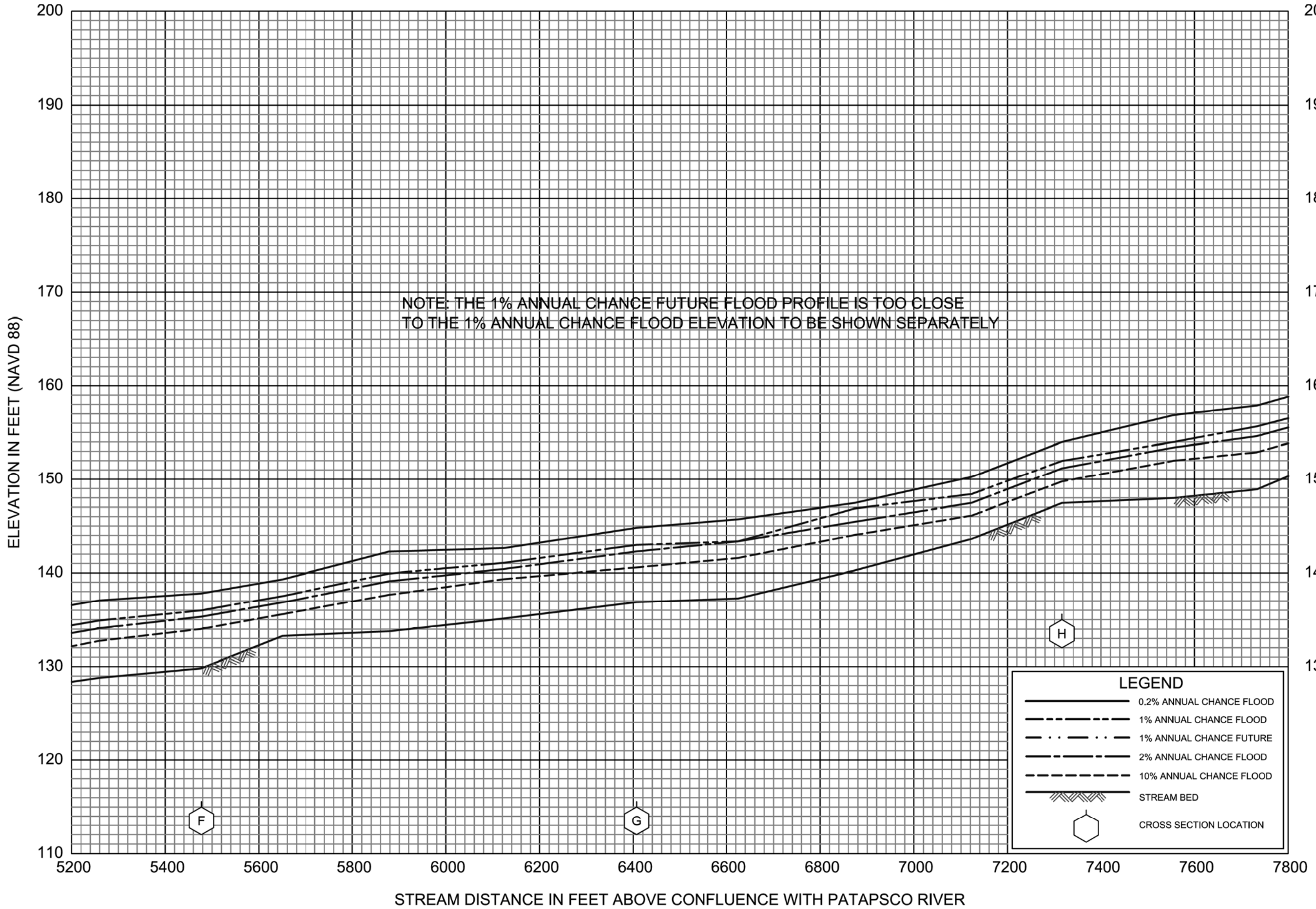
**FLOOD PROFILES**  
**ROCKBURN BRANCH**

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**HOWARD COUNTY, MD**  
AND INCORPORATED AREAS



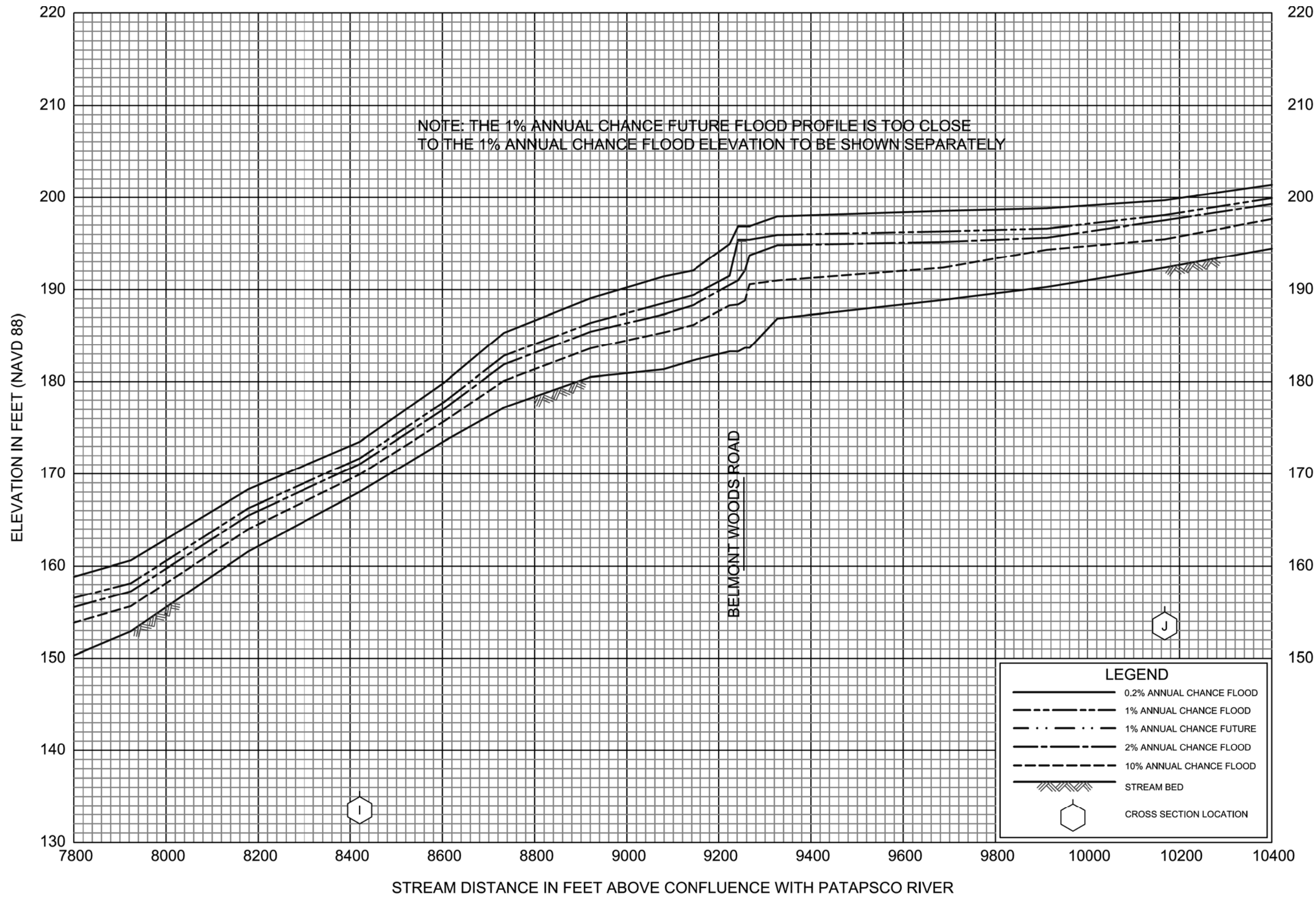
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**ROCKBURN BRANCH**

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**HOWARD COUNTY, MD**  
AND INCORPORATED AREAS



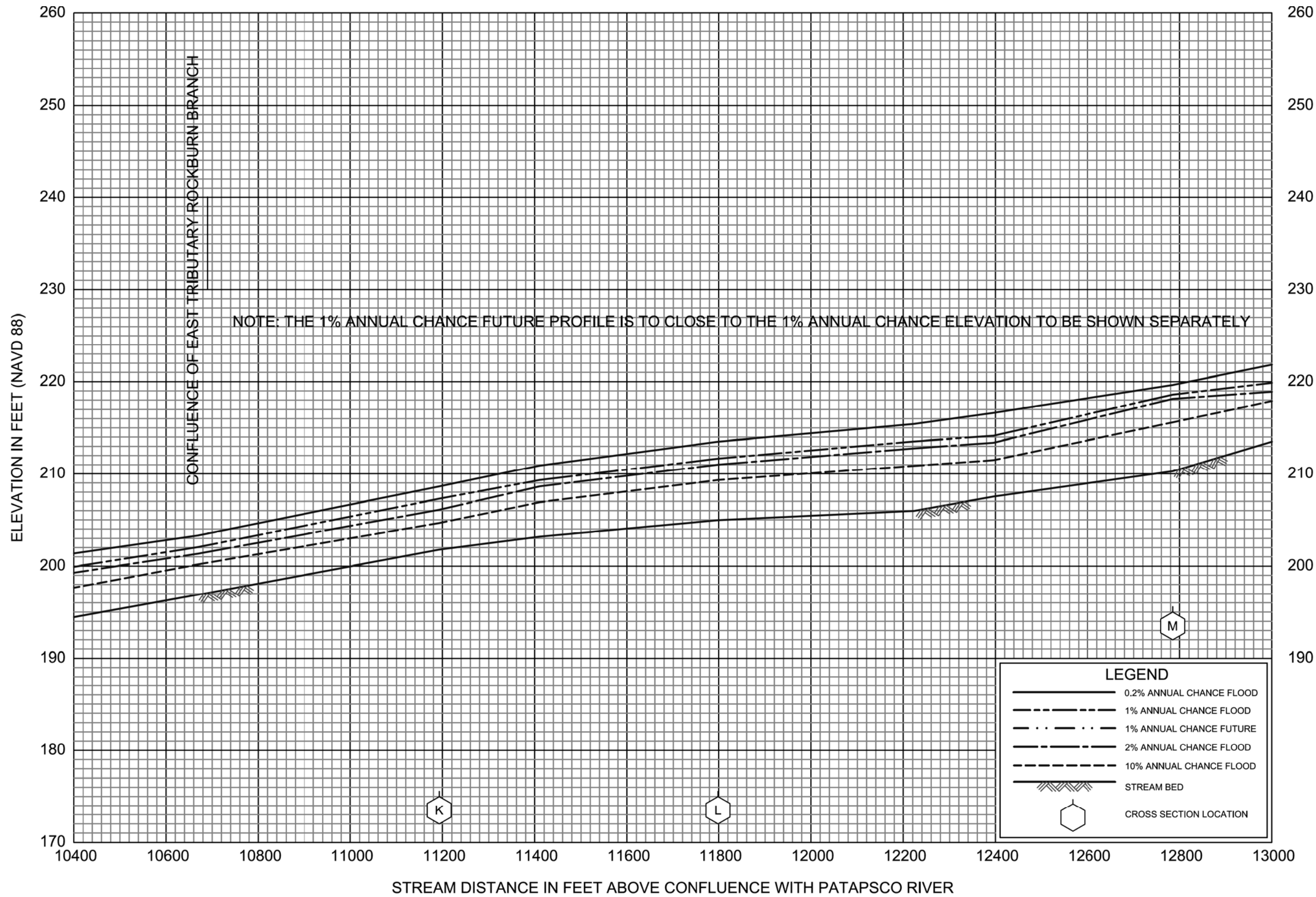
**FLOOD PROFILES**  
**ROCKBURN BRANCH**

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**HOWARD COUNTY, MD**  
 AND INCORPORATED AREAS



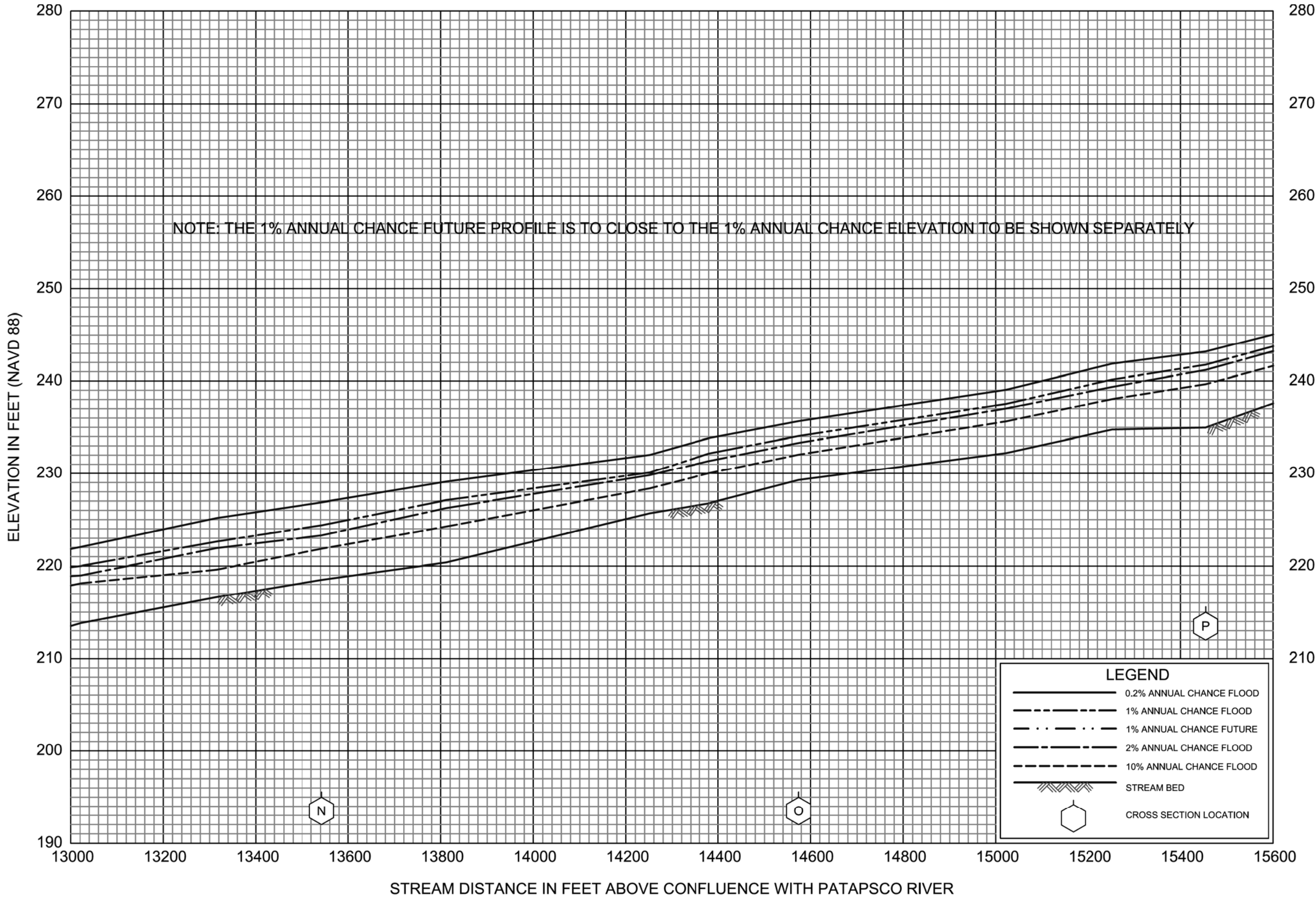
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ROCKBURN BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY  
HOWARD COUNTY, MD  
AND INCORPORATED AREAS



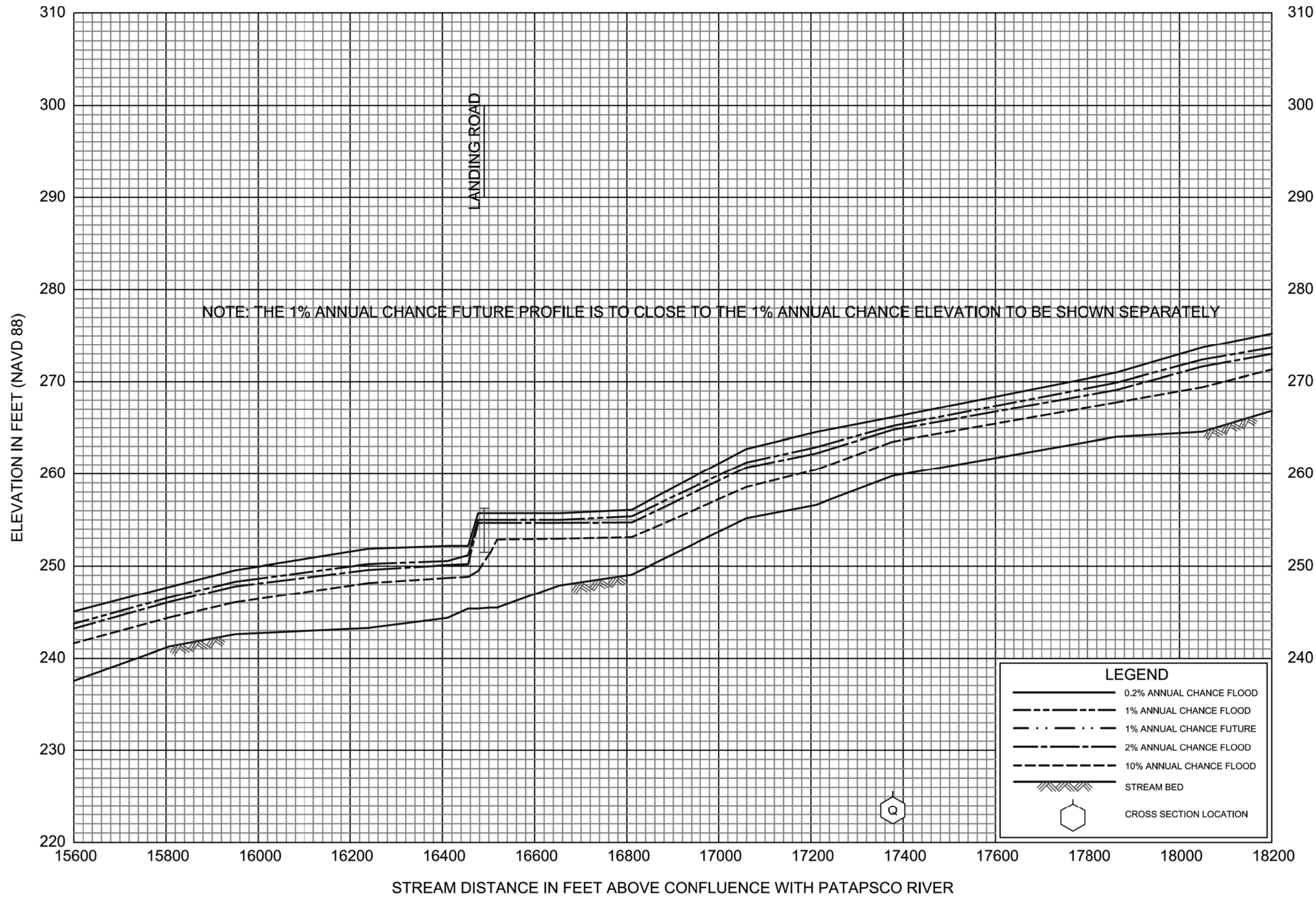
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ROCKBURN BRANCH**

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**HOWARD COUNTY, MD**  
AND INCORPORATED AREAS



**FLOOD PROFILES**  
**ROCKBURN BRANCH**

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**HOWARD COUNTY, MD**  
 AND INCORPORATED AREAS



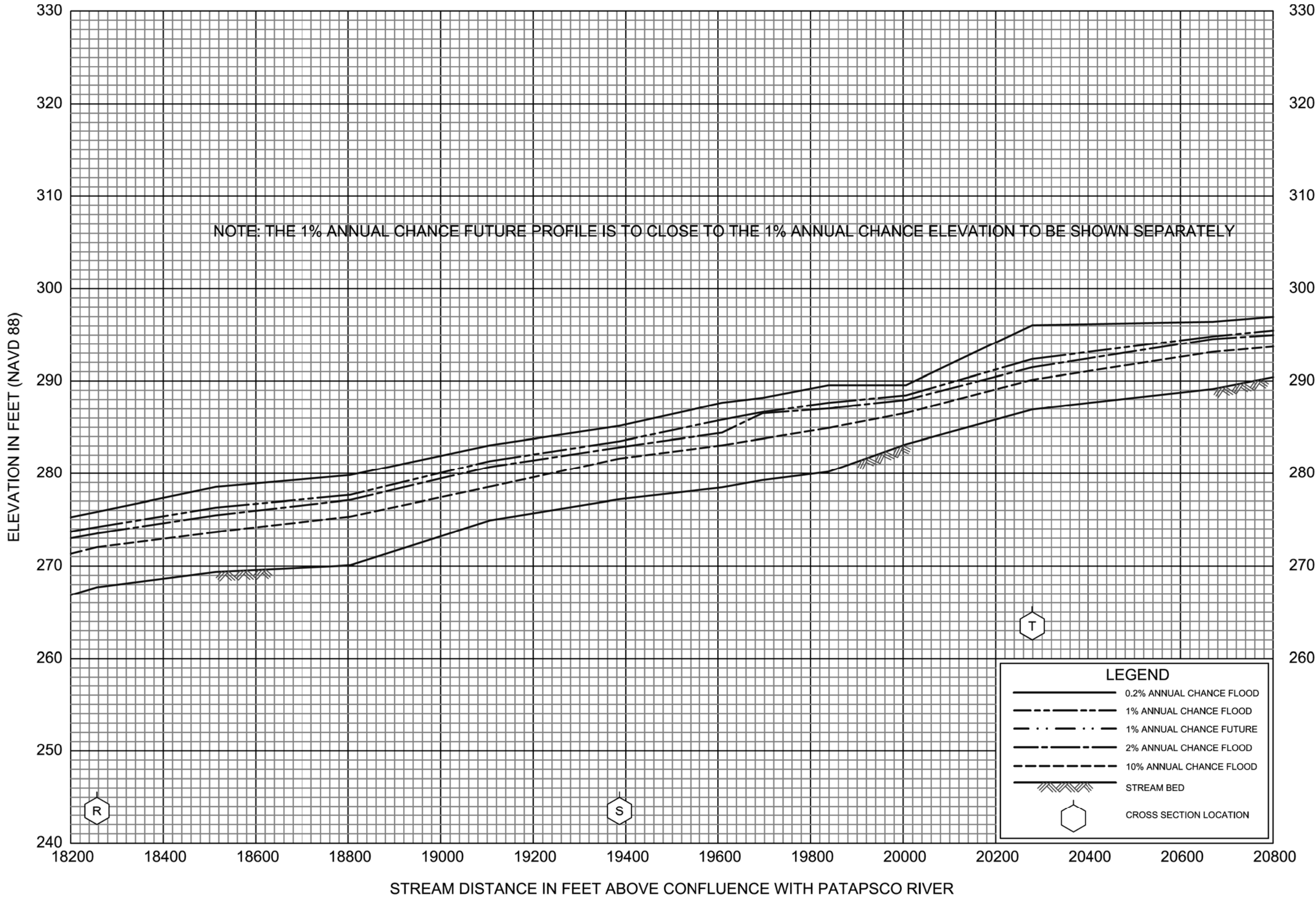
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**ROCKBURN BRANCH**

FEDERAL EMERGENCY MANAGEMENT AGENCY

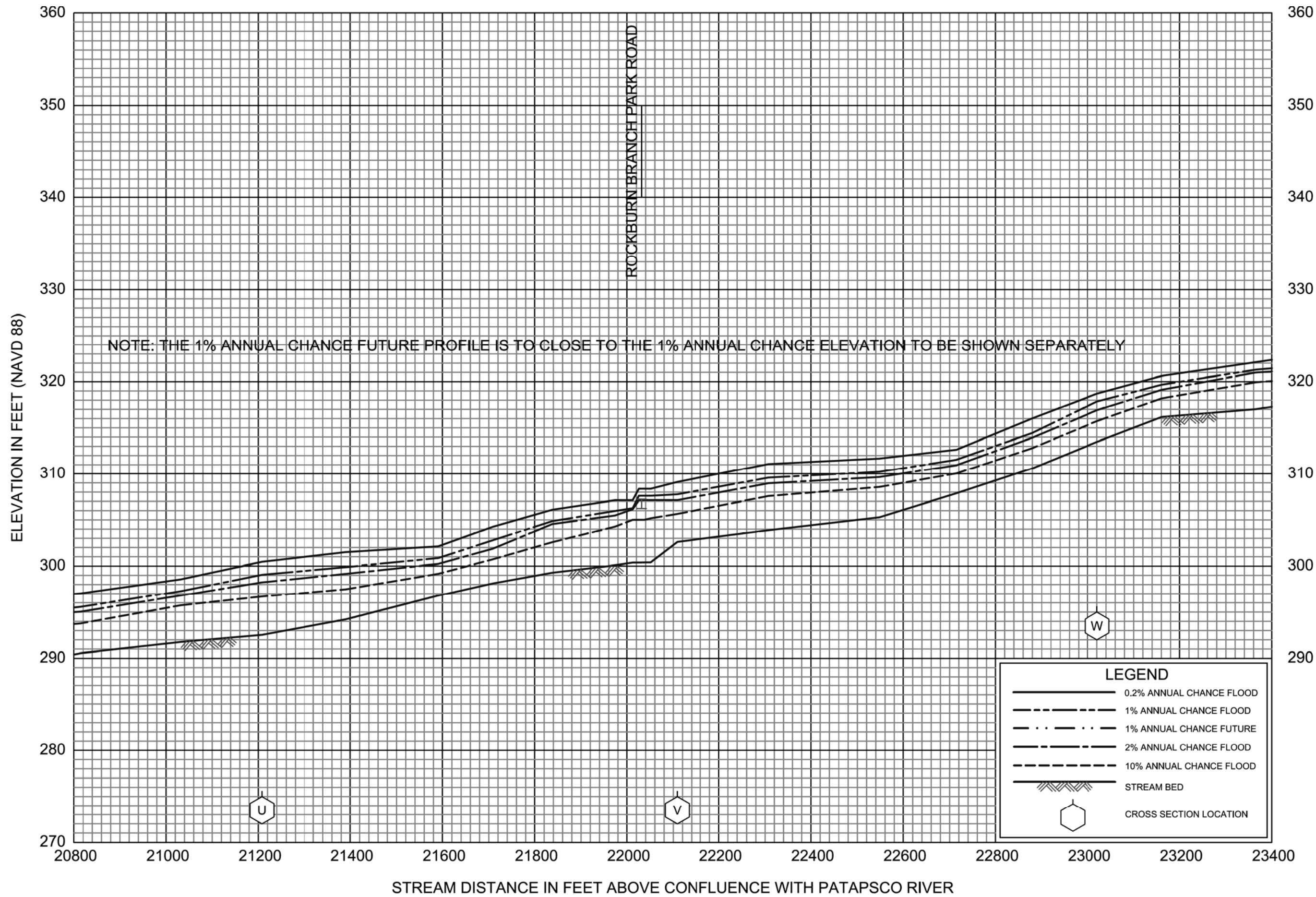
**HOWARD COUNTY, MD**

AND INCORPORATED AREAS



**FLOOD PROFILES**  
**ROCKBURN BRANCH**

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**HOWARD COUNTY, MD**  
AND INCORPORATED AREAS



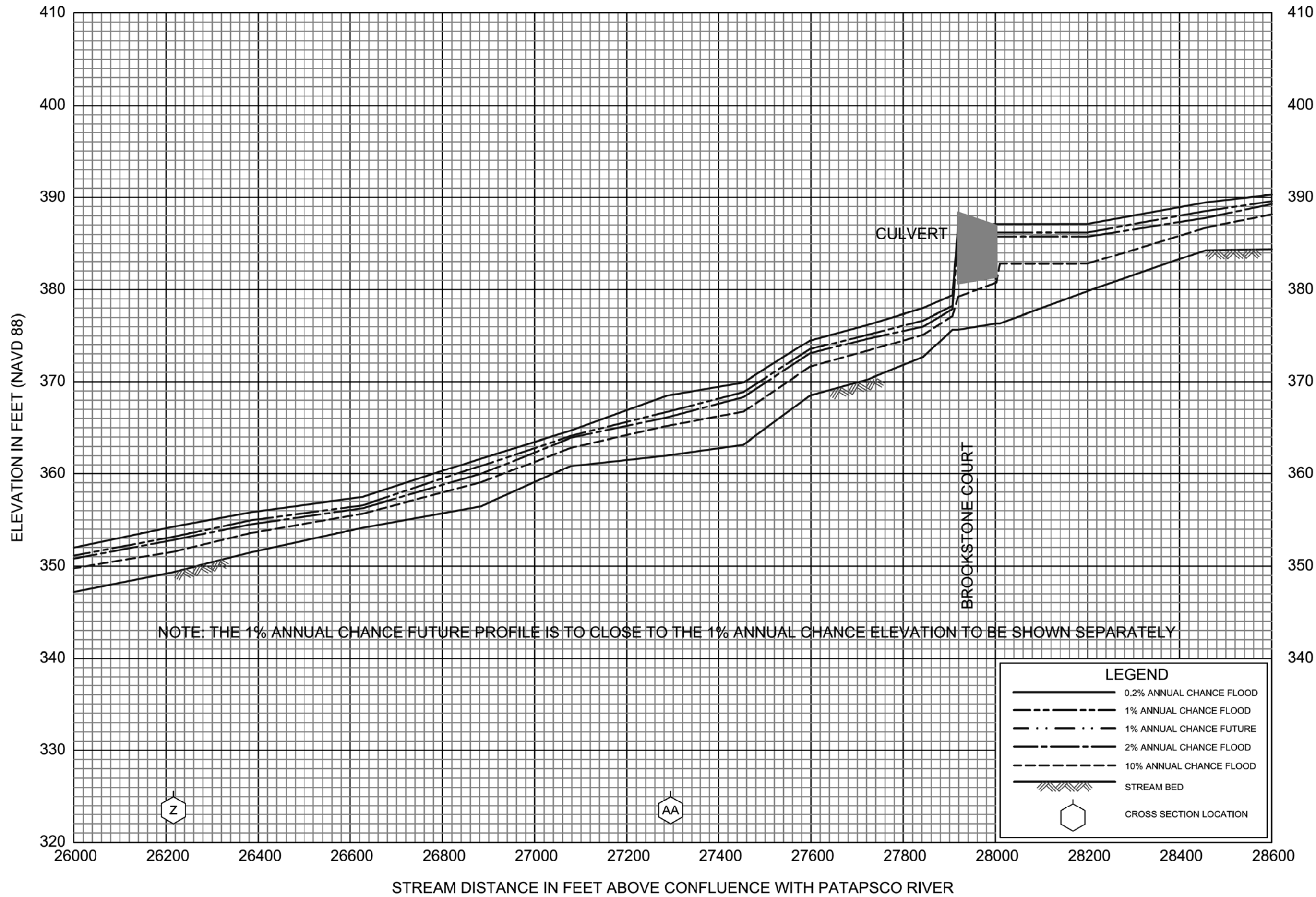
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**ROCKBURN BRANCH**

FEDERAL EMERGENCY MANAGEMENT AGENCY

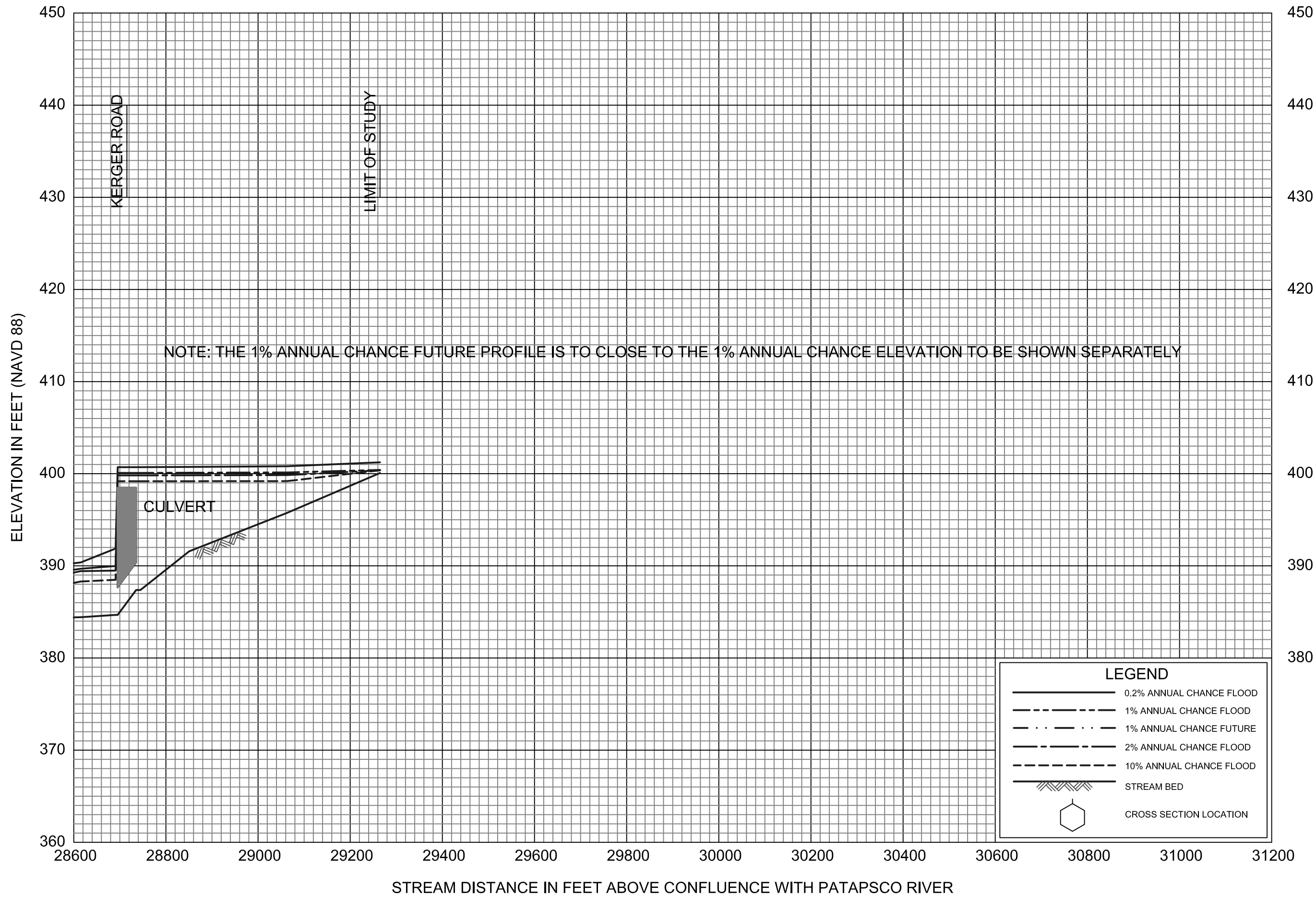
**HOWARD COUNTY, MD**  
AND INCORPORATED AREAS

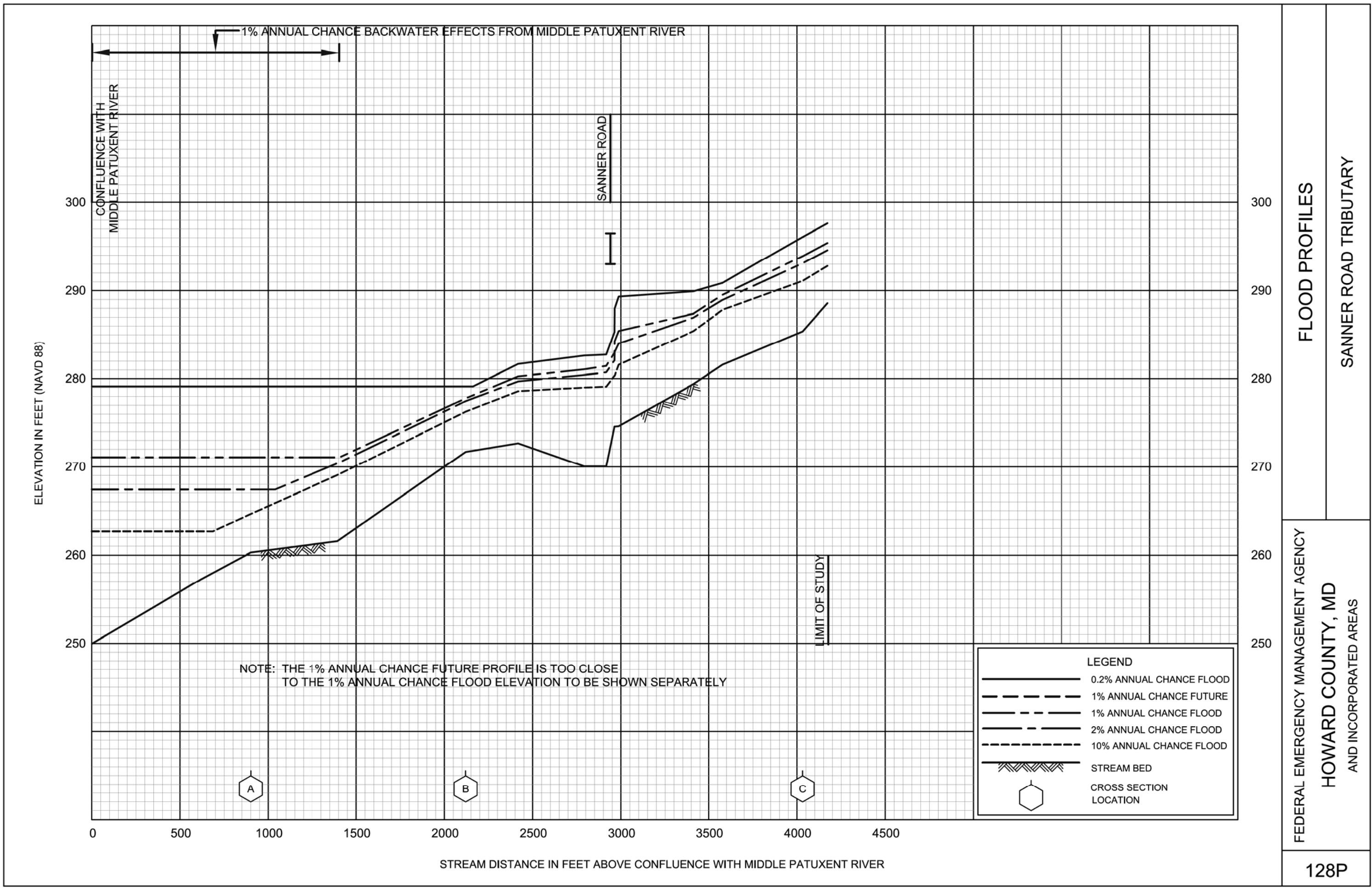


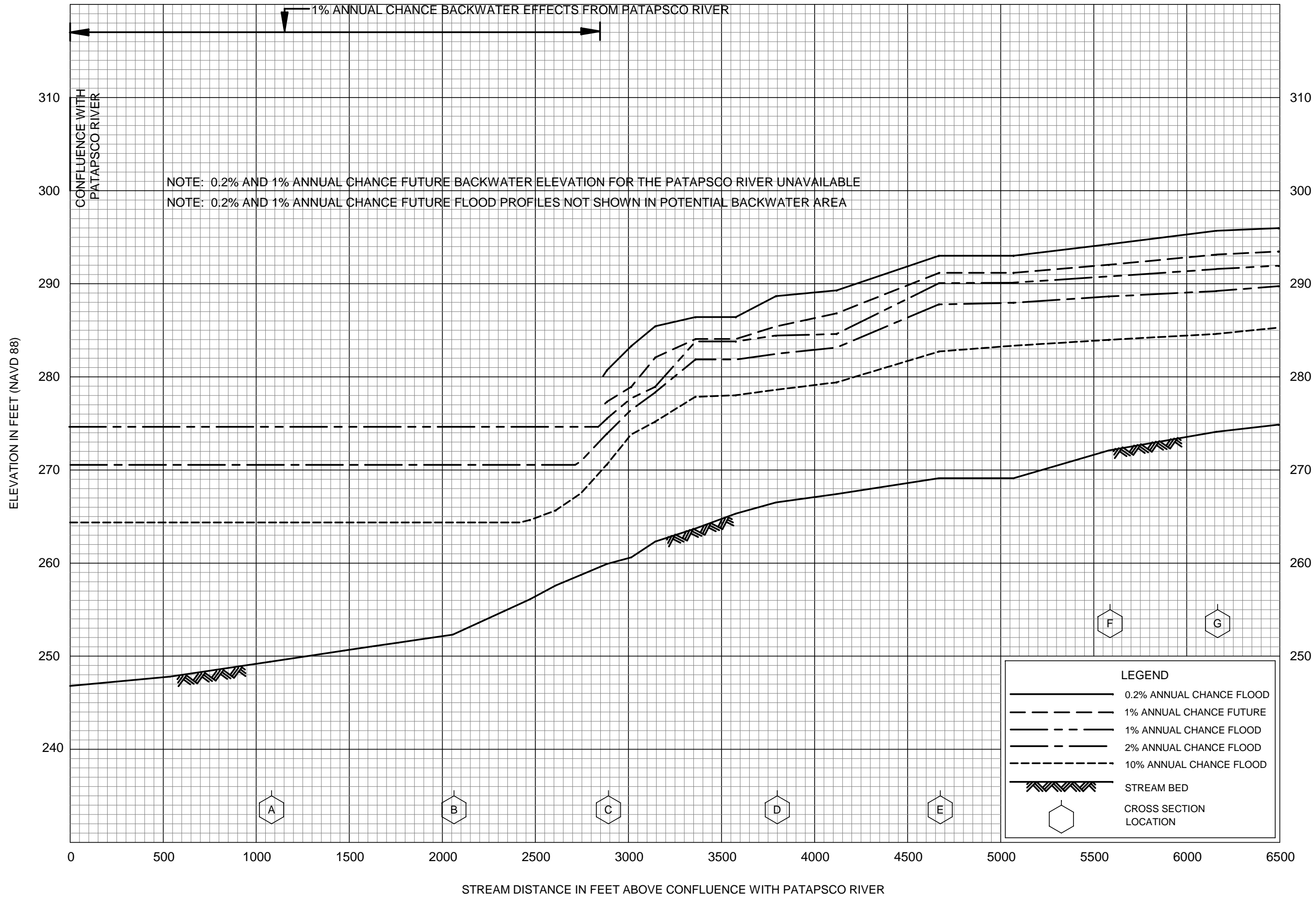


**FLOOD PROFILES  
ROCKBURN BRANCH**

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**HOWARD COUNTY, MD**  
AND INCORPORATED AREAS





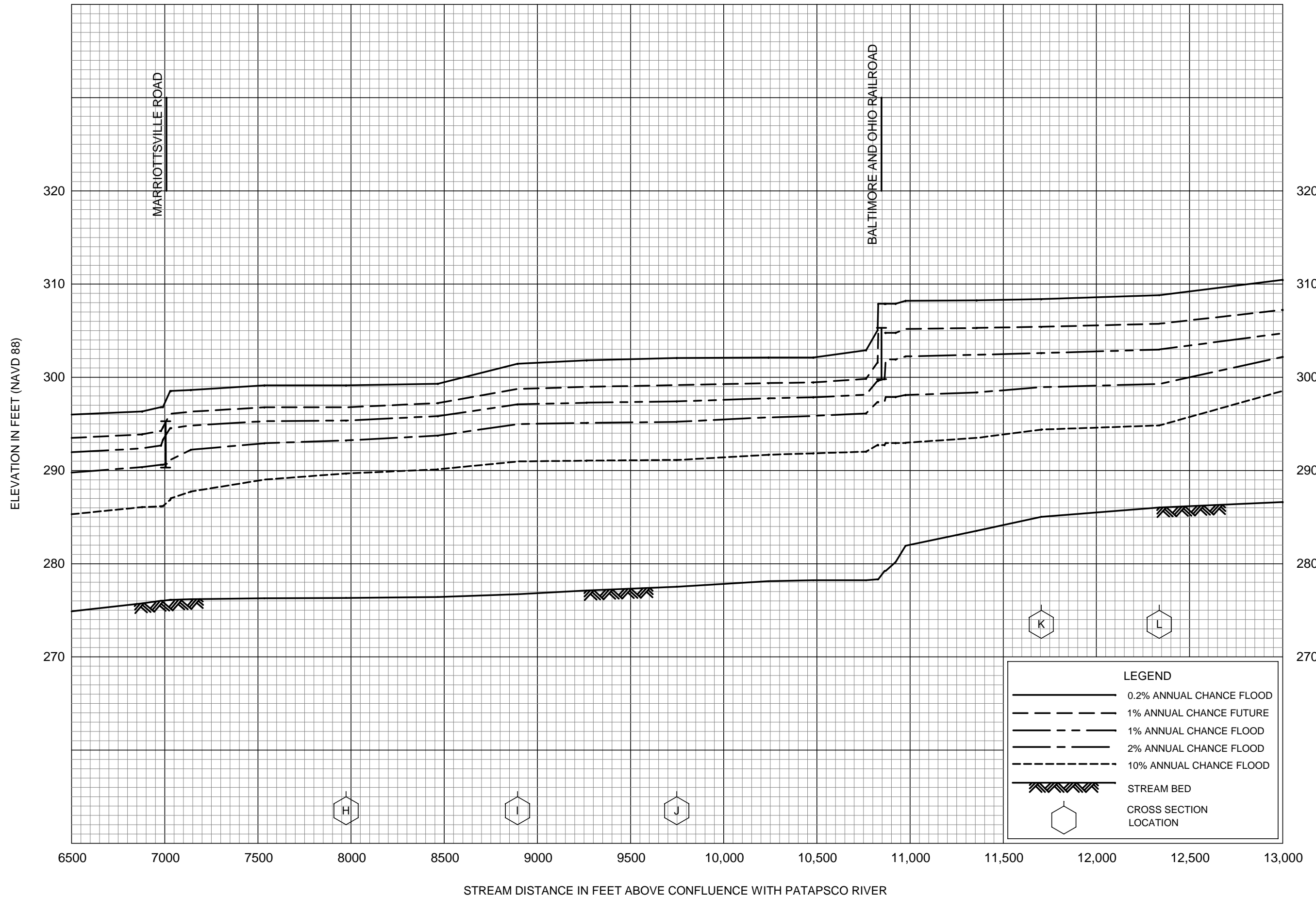


FLOOD PROFILES

SOUTH BRANCH PATAPSCO RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

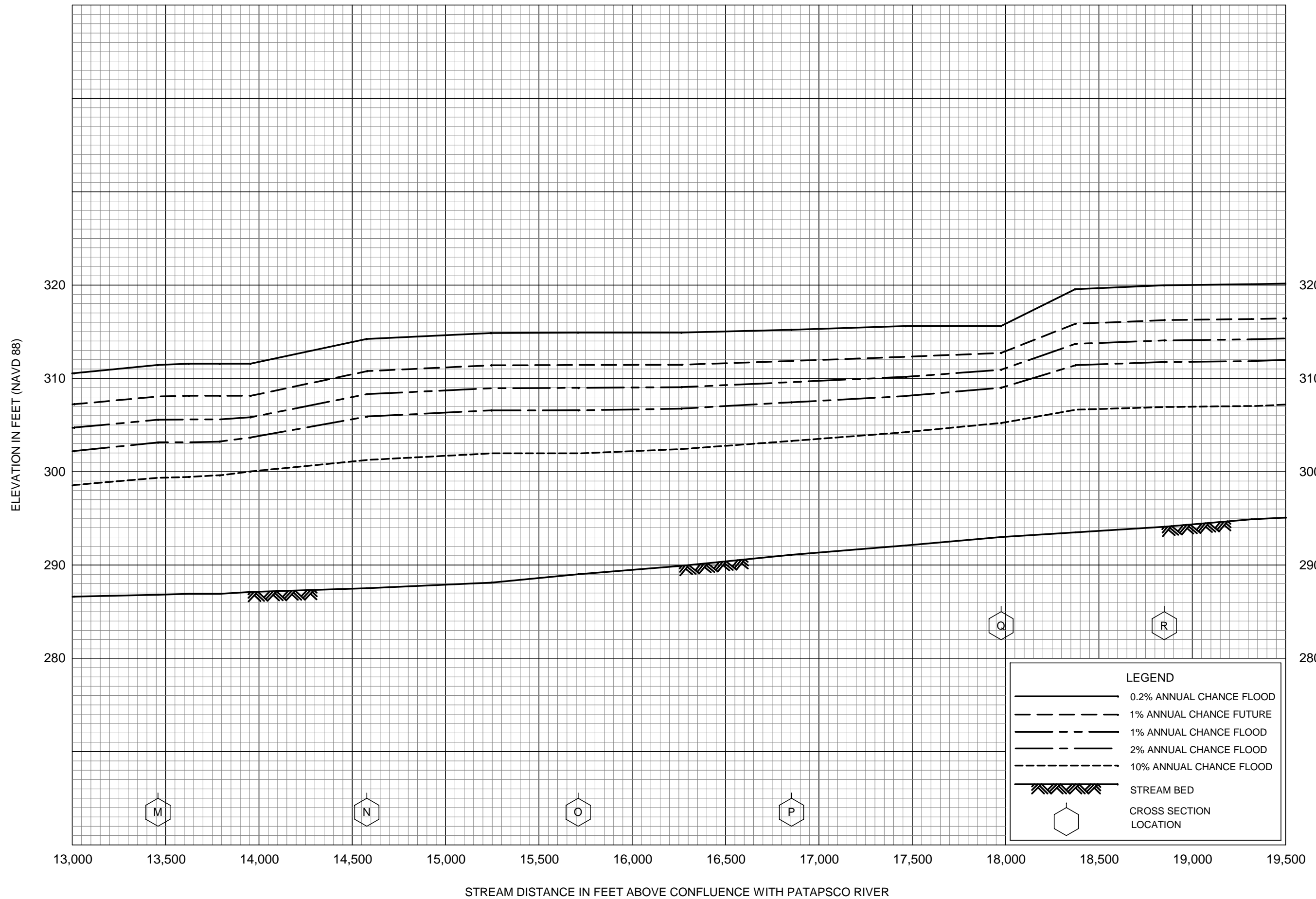
HOWARD COUNTY, MD  
AND INCORPORATED AREAS



FLOOD PROFILES

SOUTH BRANCH PATAPSCO RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY  
 HOWARD COUNTY, MD  
 AND INCORPORATED AREAS

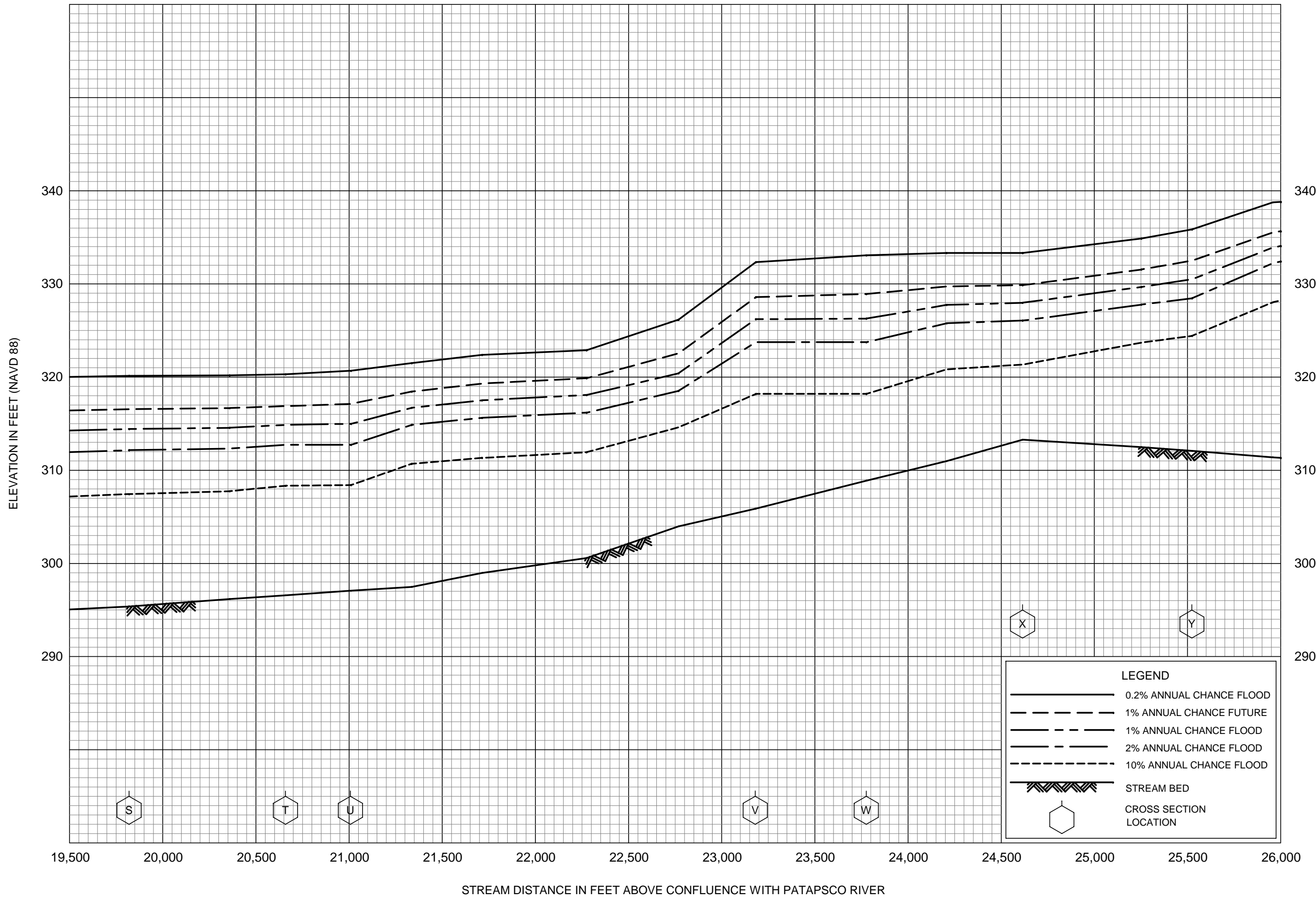


FLOOD PROFILES

SOUTH BRANCH PATAPSCO RIVER

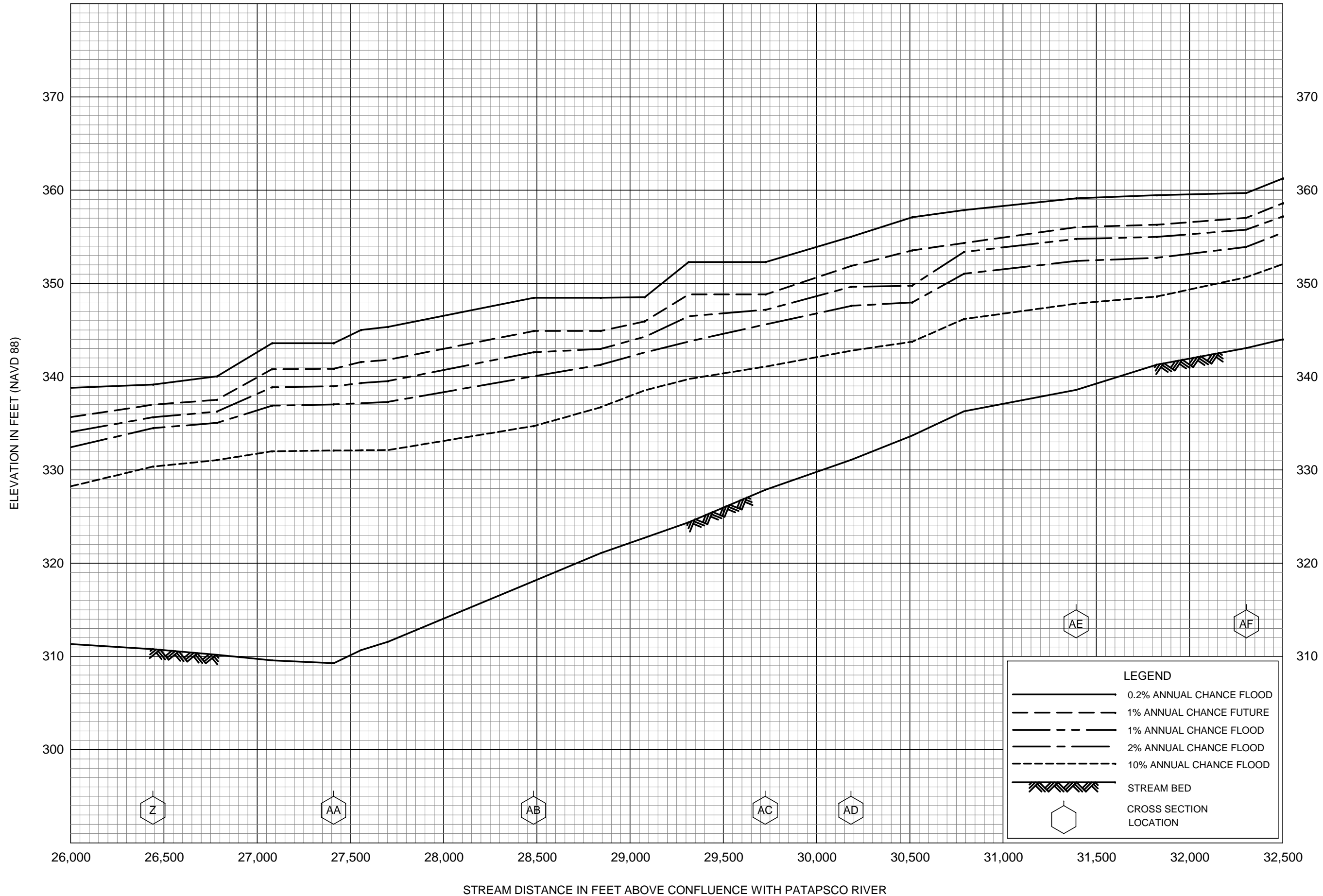
FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD  
AND INCORPORATED AREAS



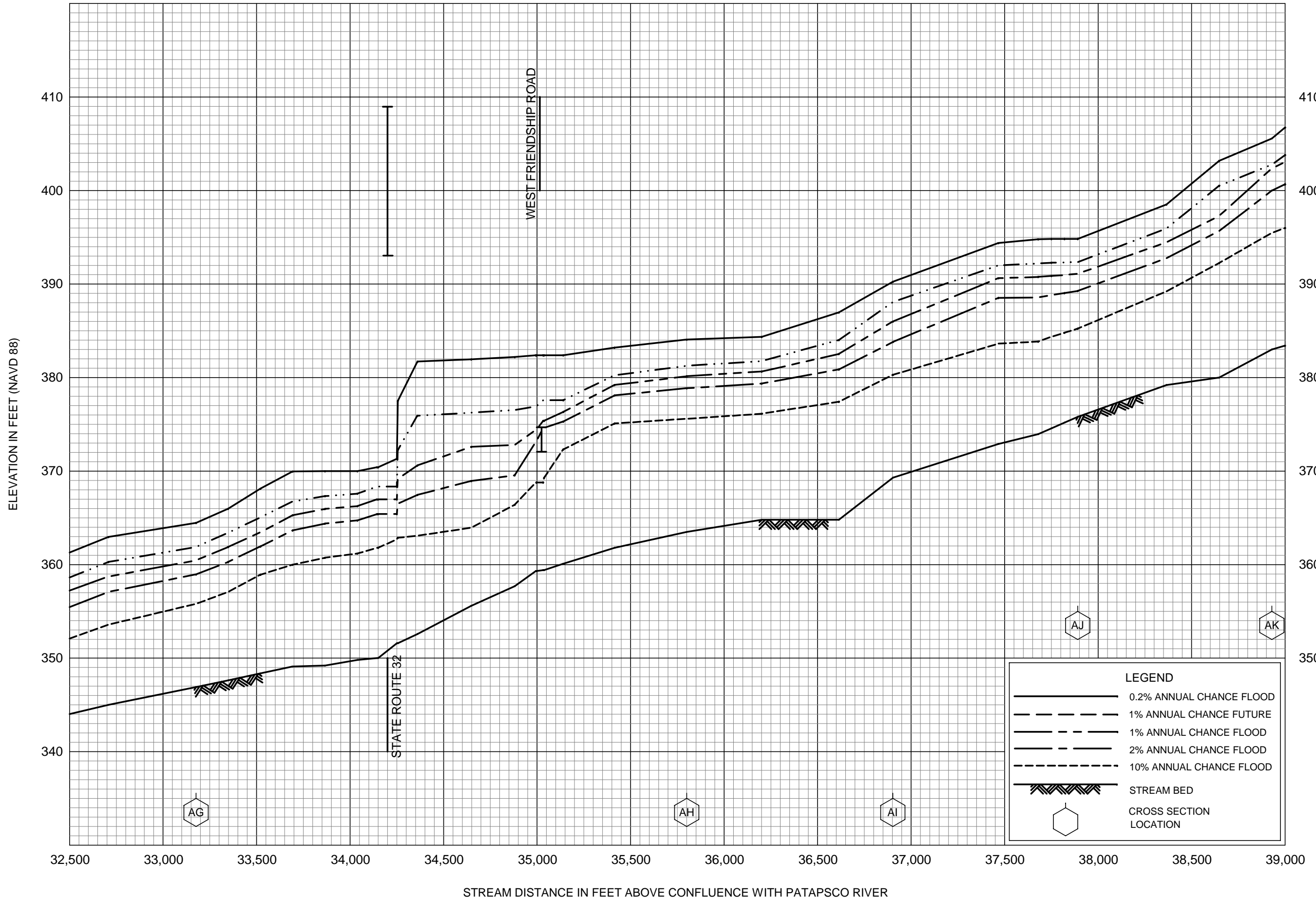
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SOUTH BRANCH PATAPSCO RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY  
HOWARD COUNTY, MD  
AND INCORPORATED AREAS



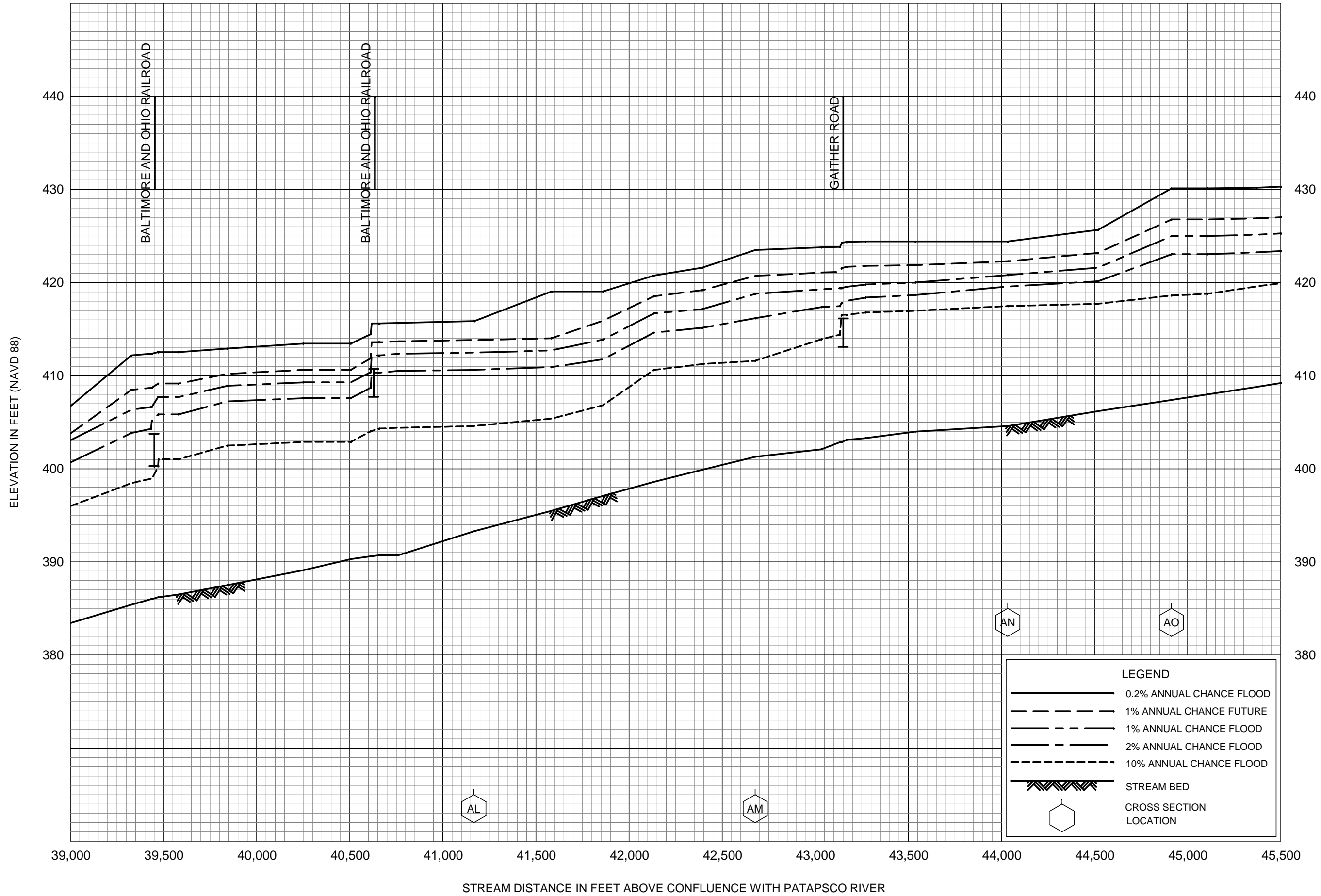
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FEDERAL EMERGENCY MANAGEMENT AGENCY  
HOWARD COUNTY, MD  
AND INCORPORATED AREAS



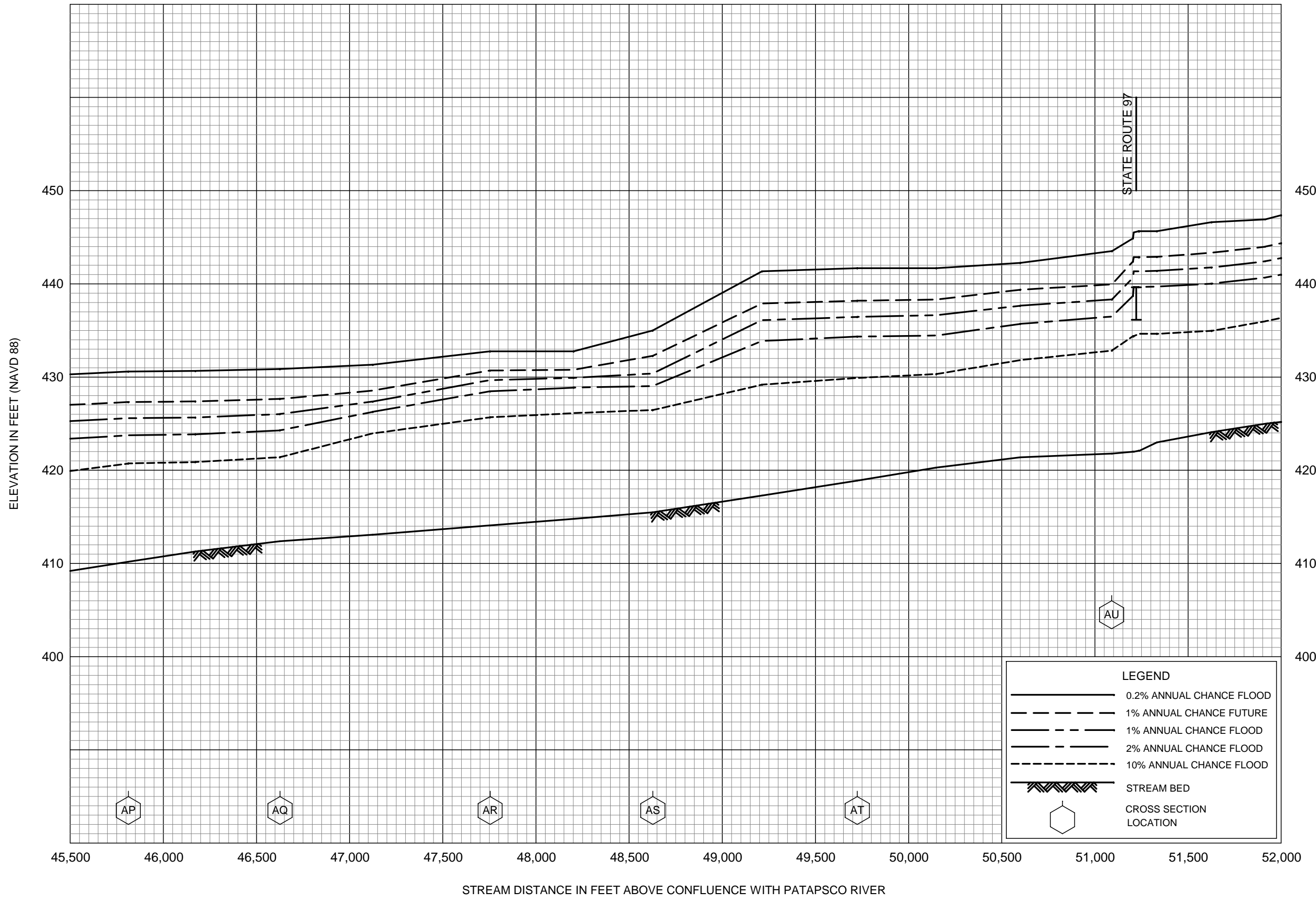
**FLOOD PROFILES**  
SOUTH BRANCH PATAPSCO RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**HOWARD COUNTY, MD**  
AND INCORPORATED AREAS



FLOOD PROFILES  
SOUTH BRANCH PATAPSCO RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY  
HOWARD COUNTY, MD  
AND INCORPORATED AREAS

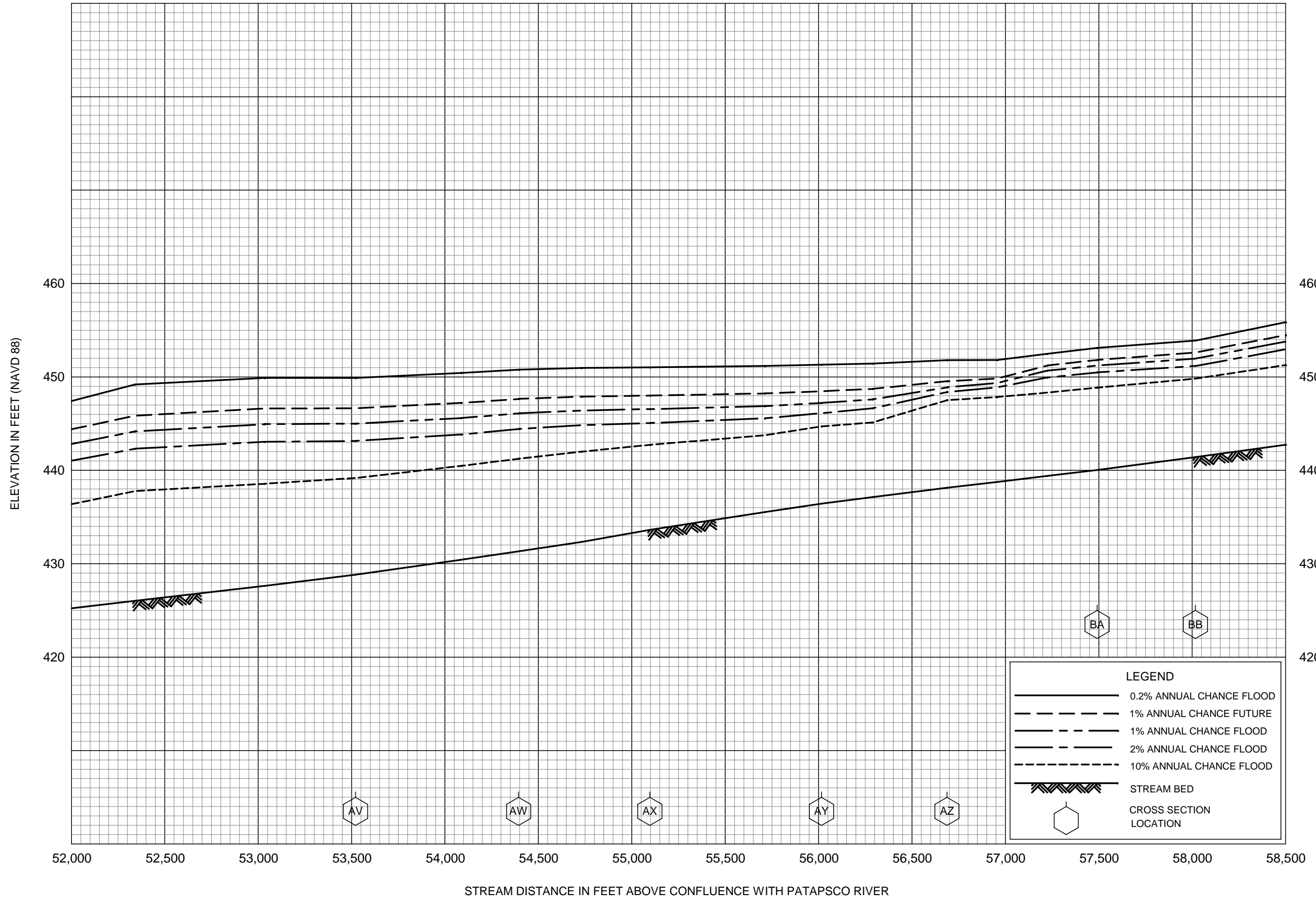


**FLOOD PROFILES**

**SOUTH BRANCH PATAPSCO RIVER**

FEDERAL EMERGENCY MANAGEMENT AGENCY

**HOWARD COUNTY, MD**  
AND INCORPORATED AREAS



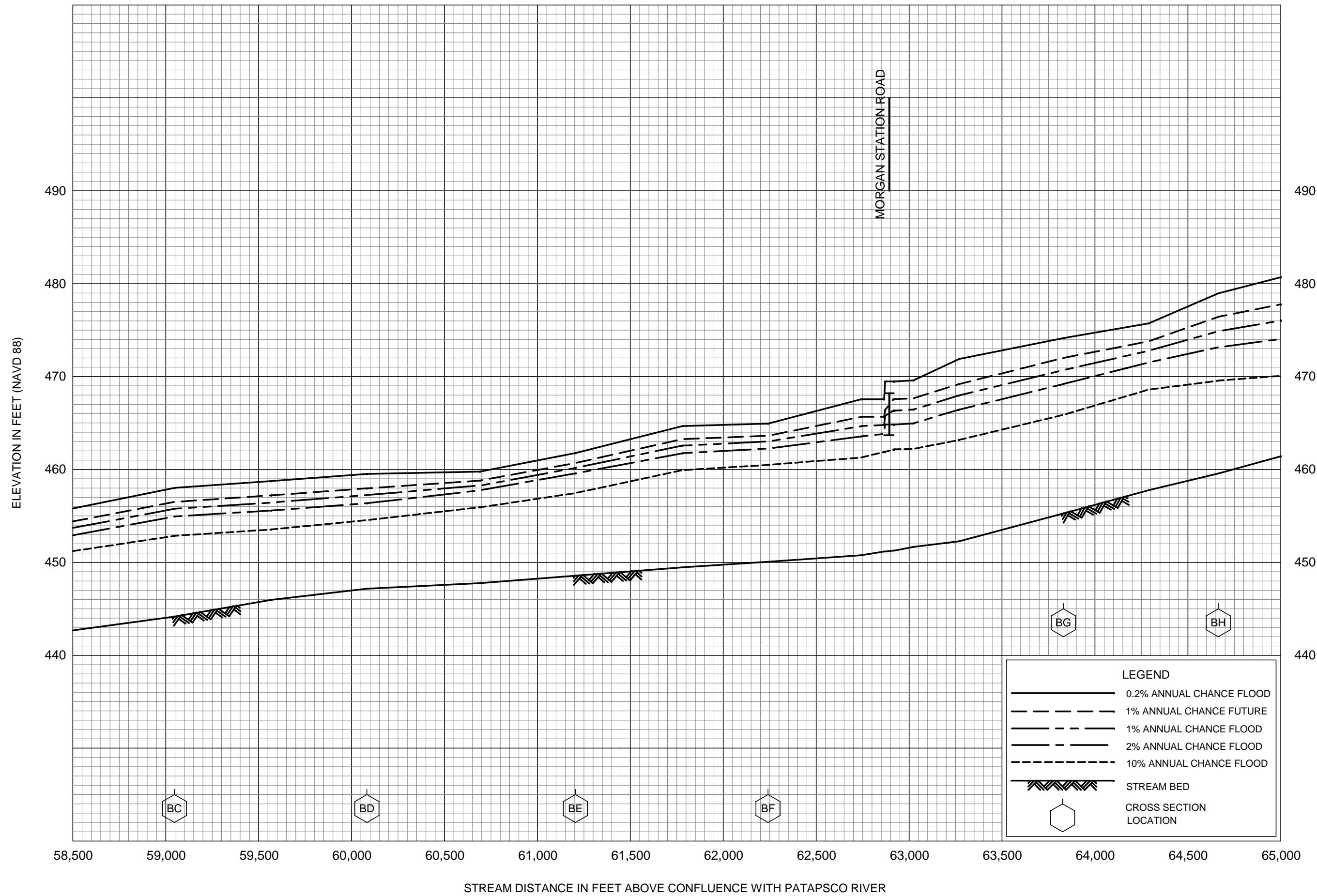
FLOOD PROFILES

SOUTH BRANCH PATAPSCO RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

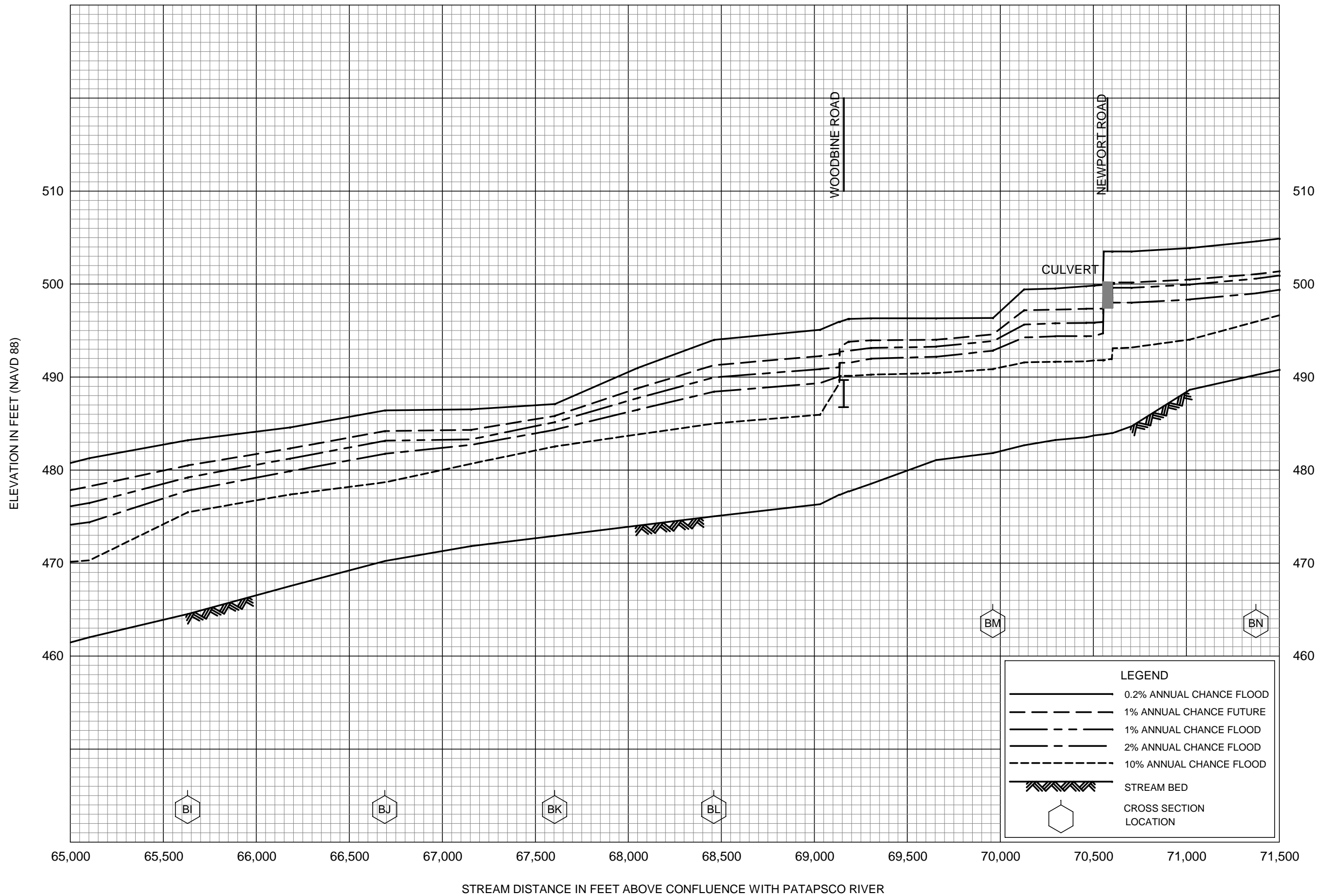
HOWARD COUNTY, MD

AND INCORPORATED AREAS



**FLOOD PROFILES**  
SOUTH BRANCH PATAPSCO RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**HOWARD COUNTY, MD**  
AND INCORPORATED AREAS

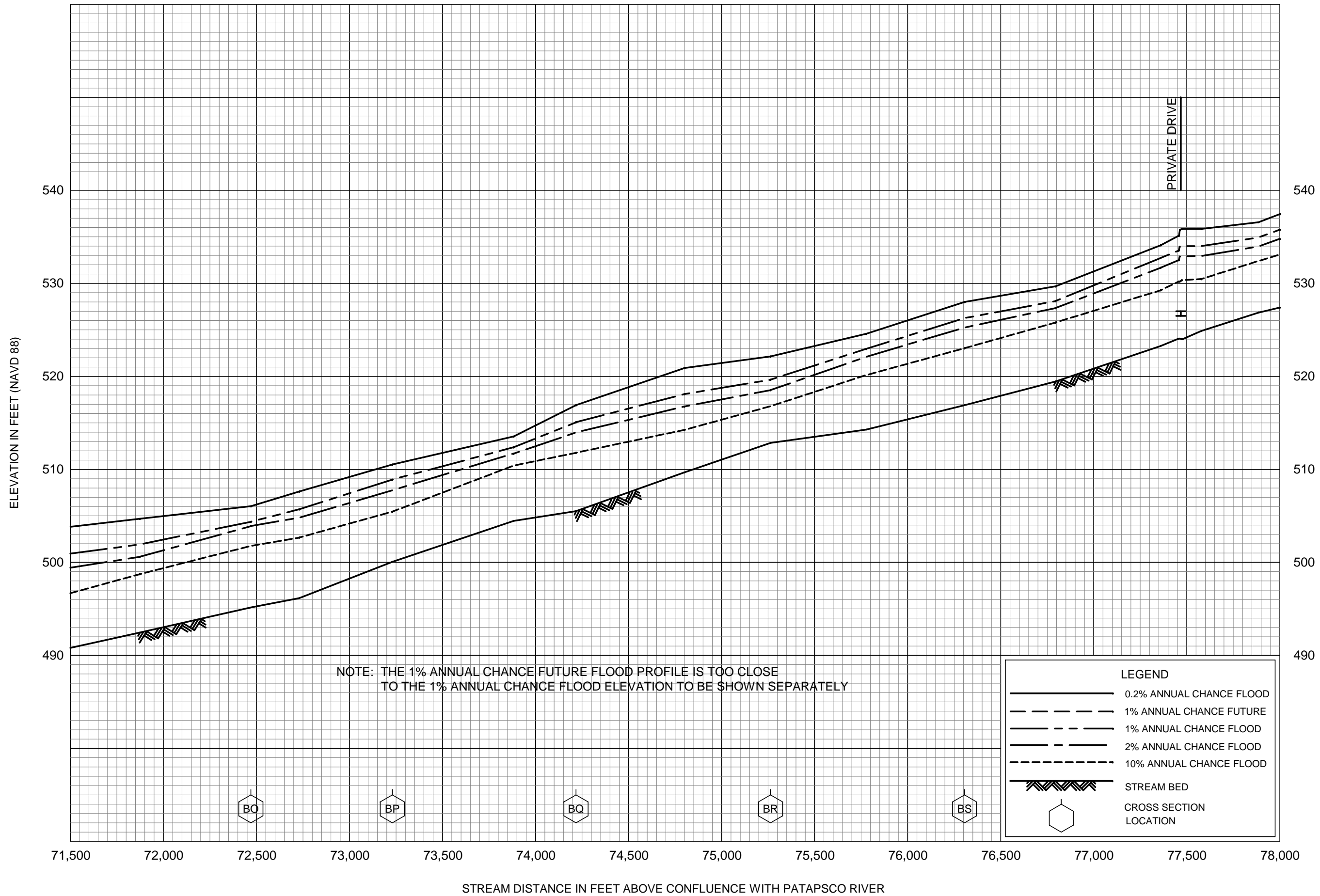


**FLOOD PROFILES**

SOUTH BRANCH PATAPSCO RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

**HOWARD COUNTY, MD**  
AND INCORPORATED AREAS

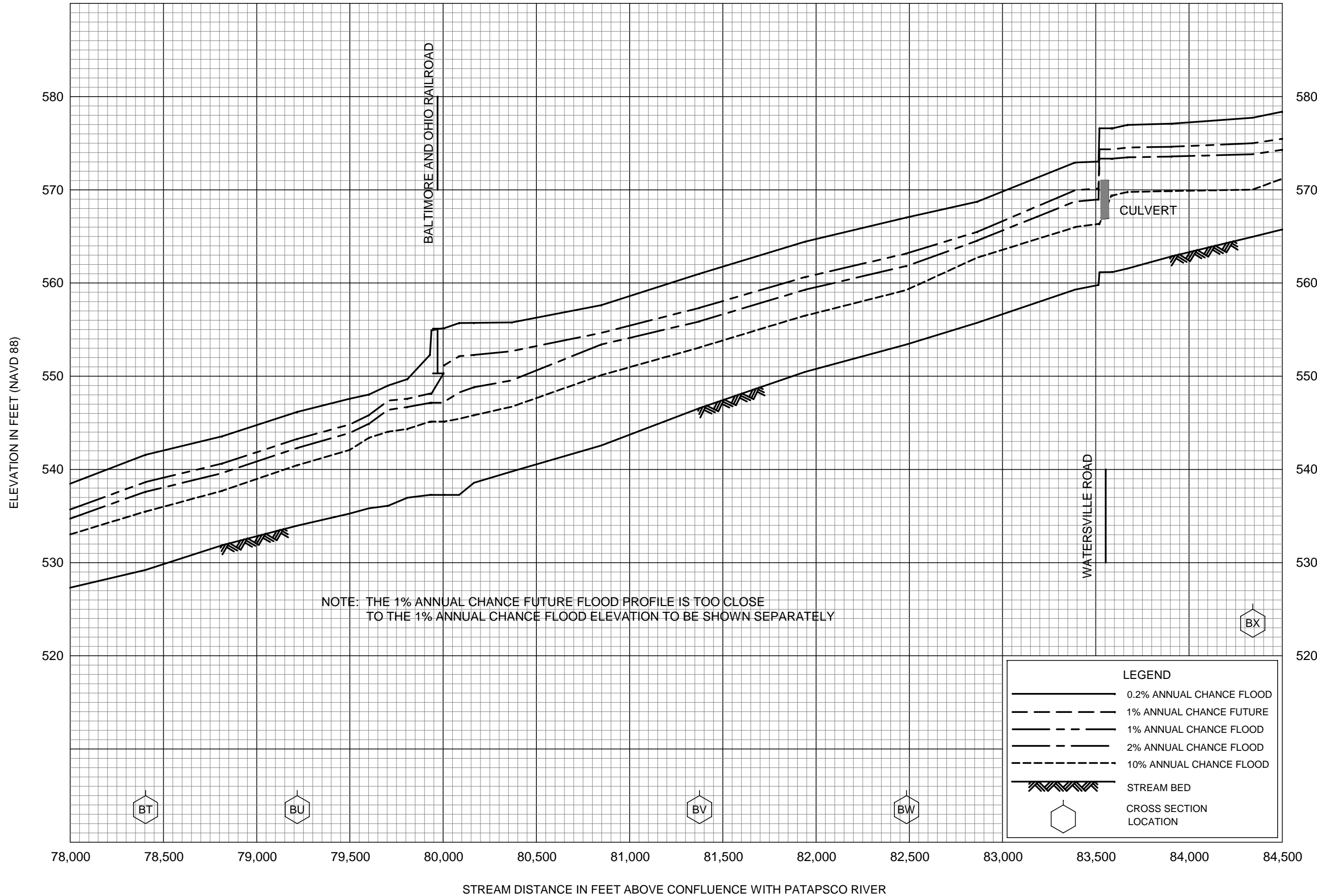


FLOOD PROFILES

SOUTH BRANCH PATAPSCO RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD  
AND INCORPORATED AREAS



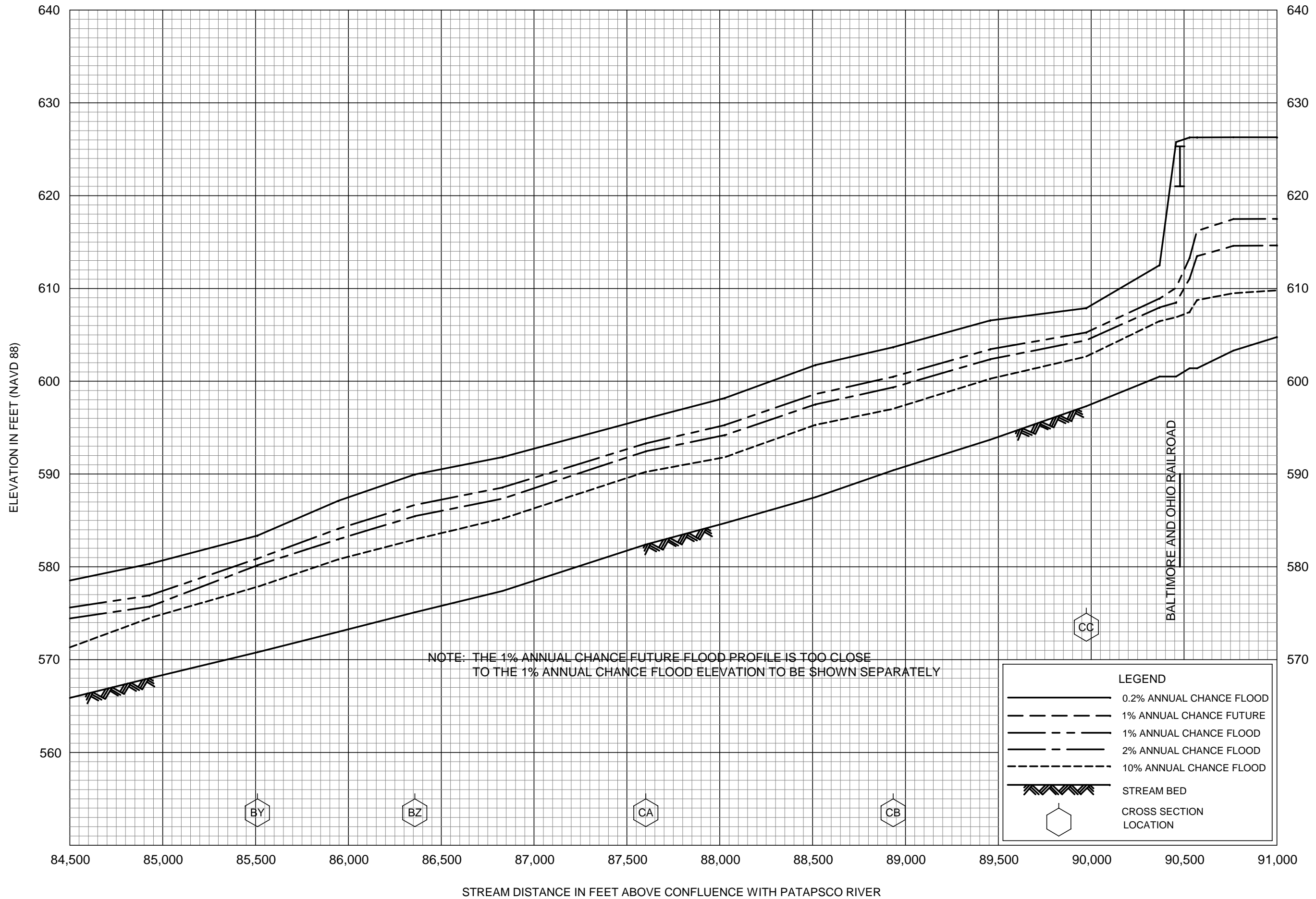
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FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS



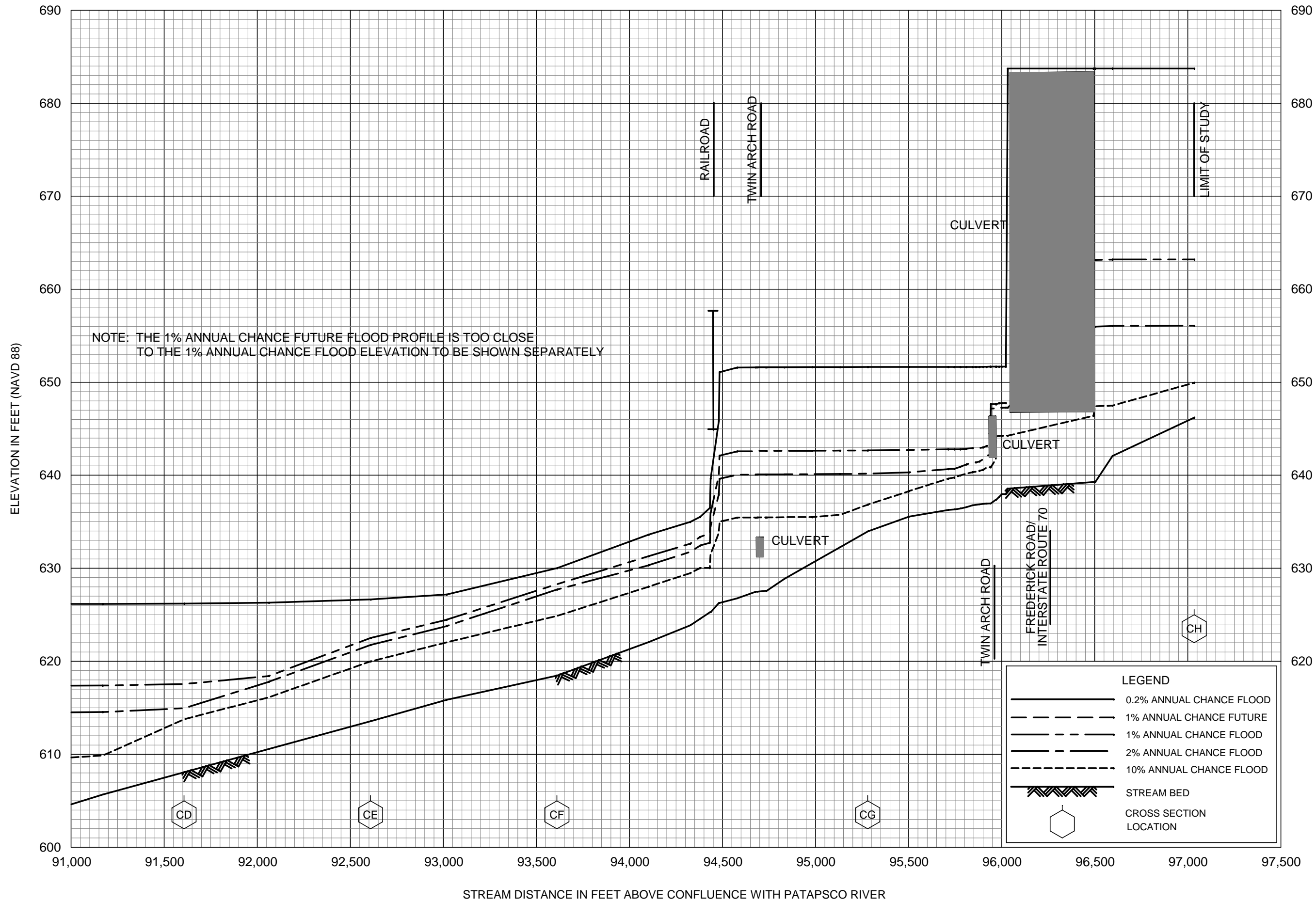
FLOOD PROFILES

SOUTH BRANCH PATAPSCO RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS

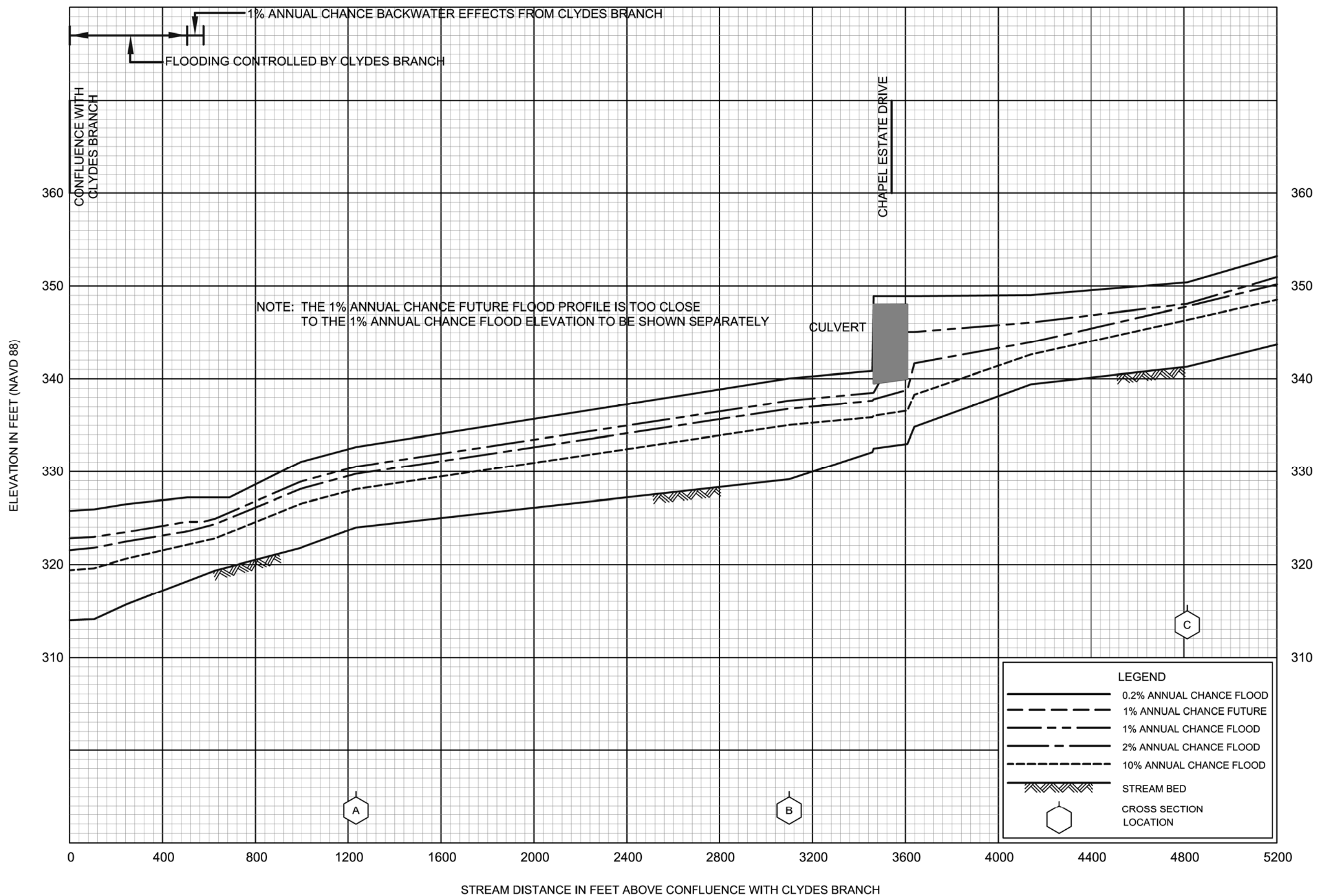


FLOOD PROFILES

SOUTH BRANCH PATAPSCO RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

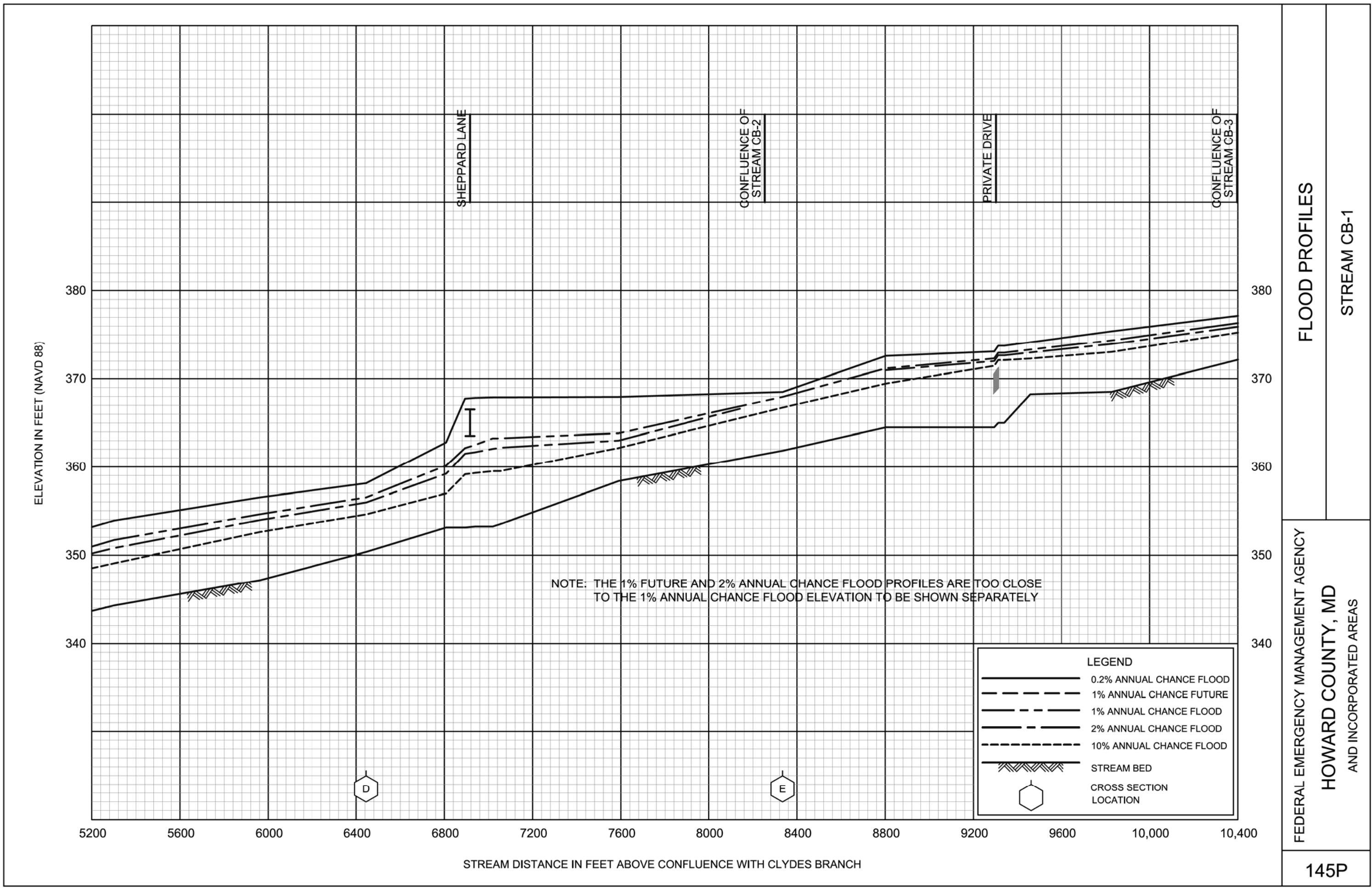
HOWARD COUNTY, MD  
AND INCORPORATED AREAS

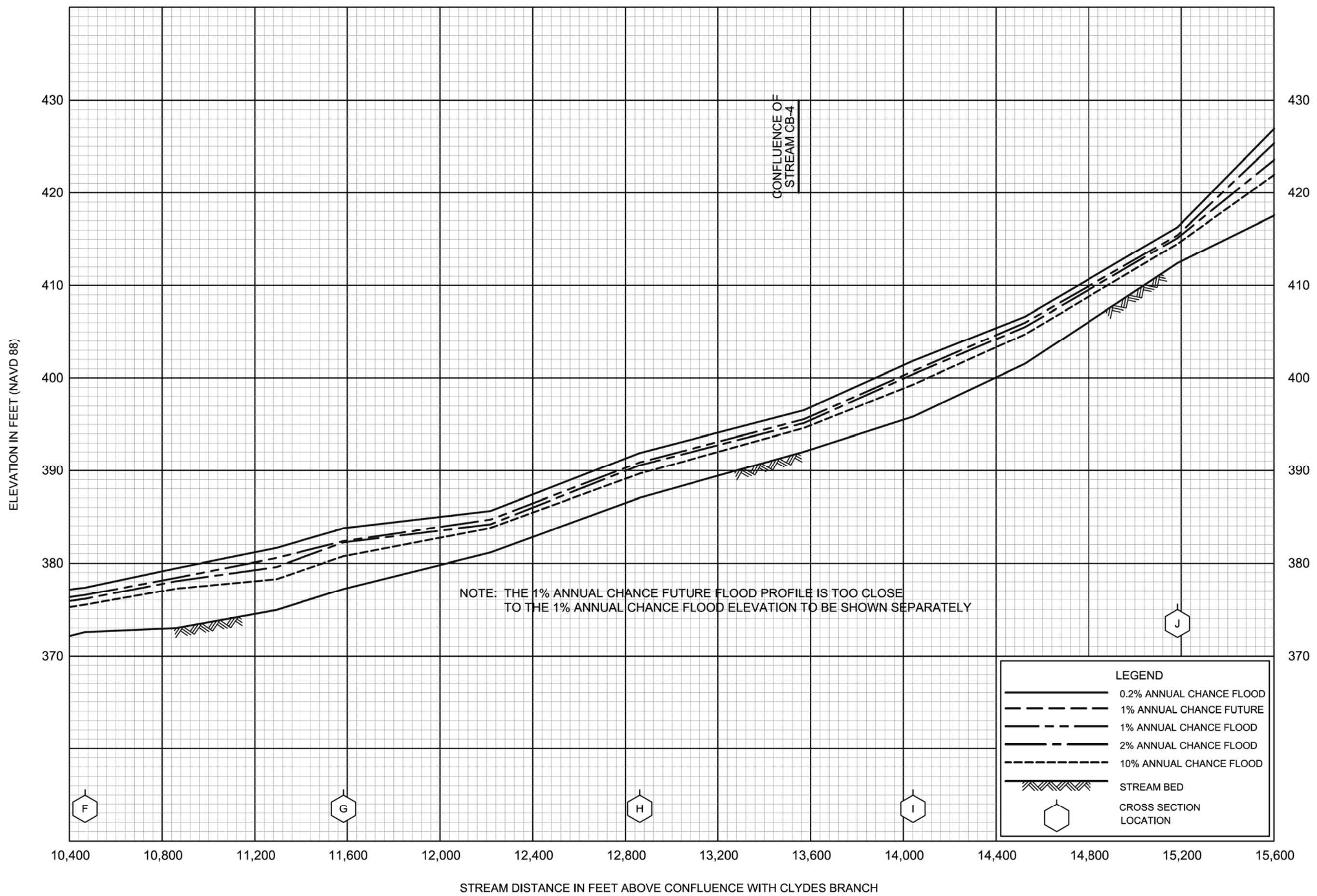


**FLOOD PROFILES**

**STREAM CB-1**

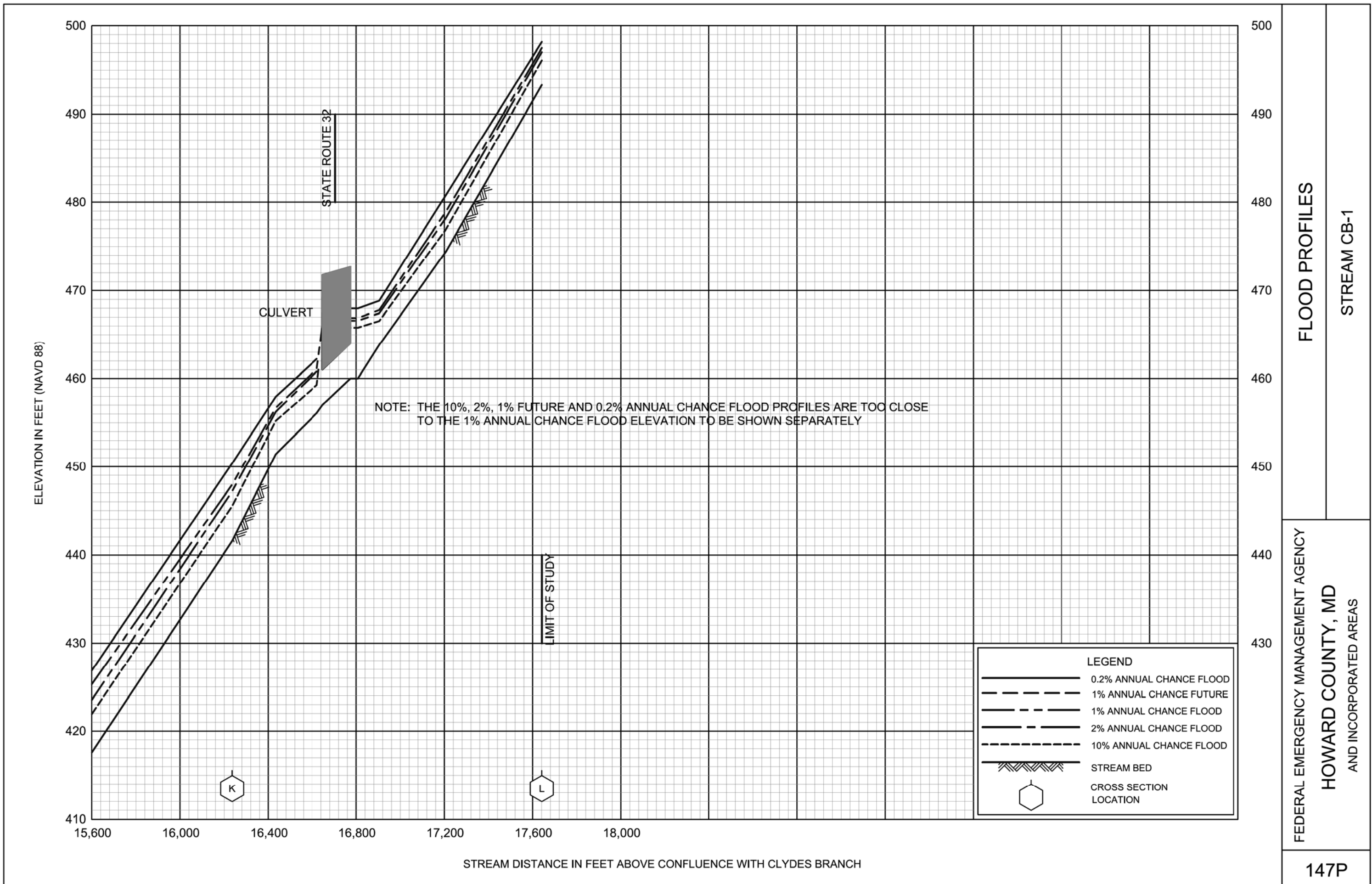
FEDERAL EMERGENCY MANAGEMENT AGENCY  
**HOWARD COUNTY, MD**  
 AND INCORPORATED AREAS

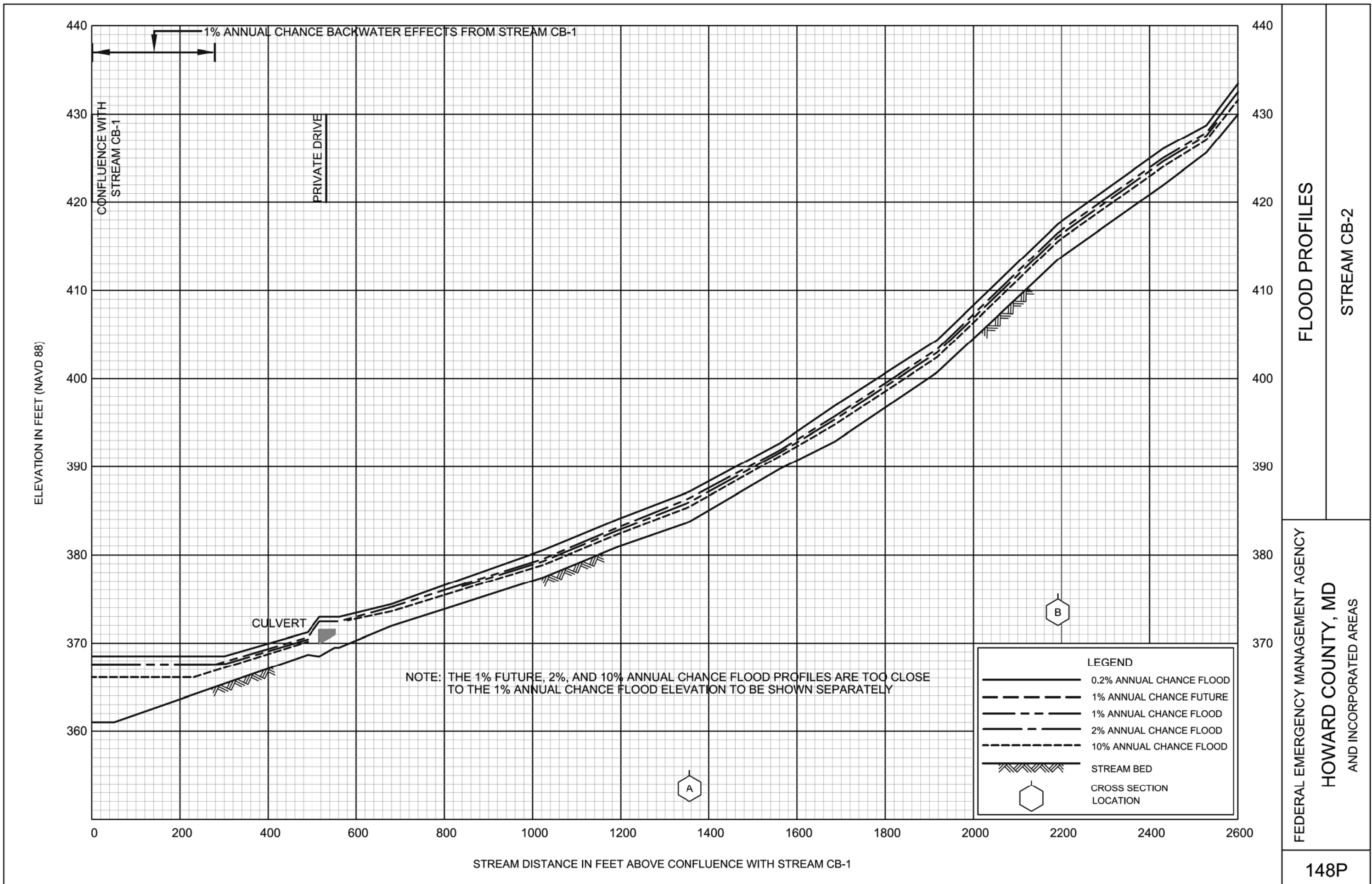


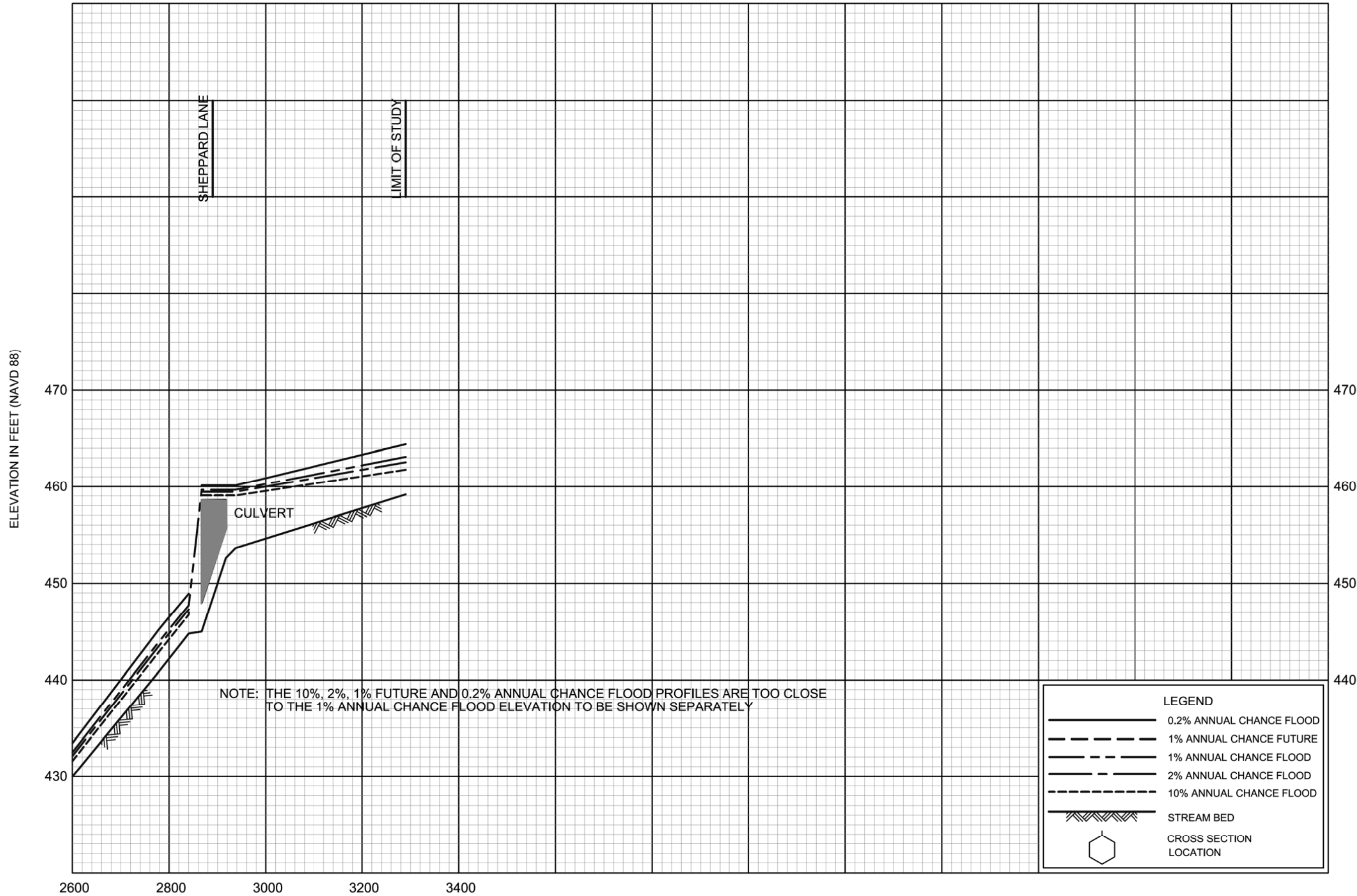


FLOOD PROFILES  
STREAM CB-1

FEDERAL EMERGENCY MANAGEMENT AGENCY  
HOWARD COUNTY, MD  
AND INCORPORATED AREAS







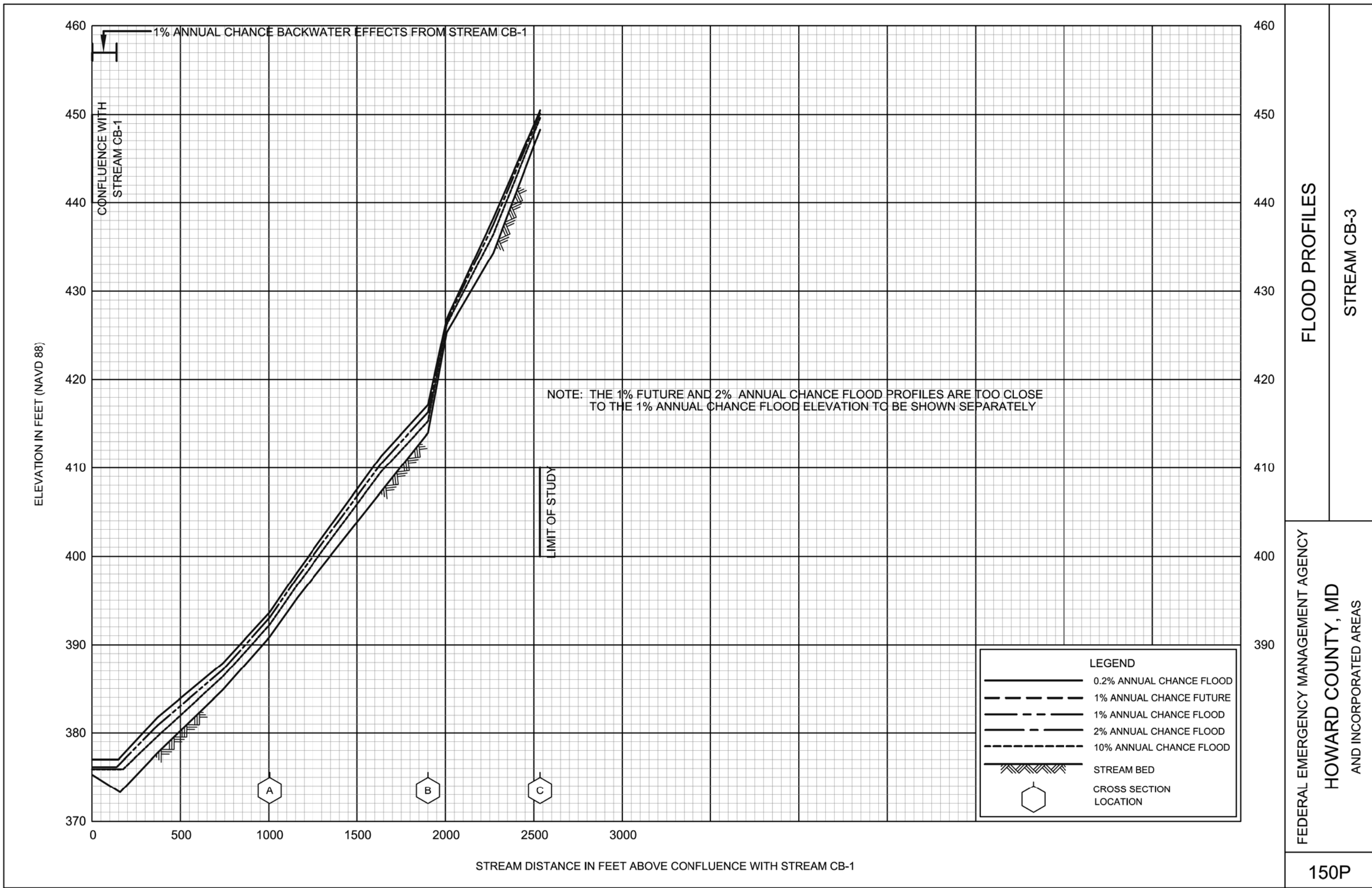
FLOOD PROFILES

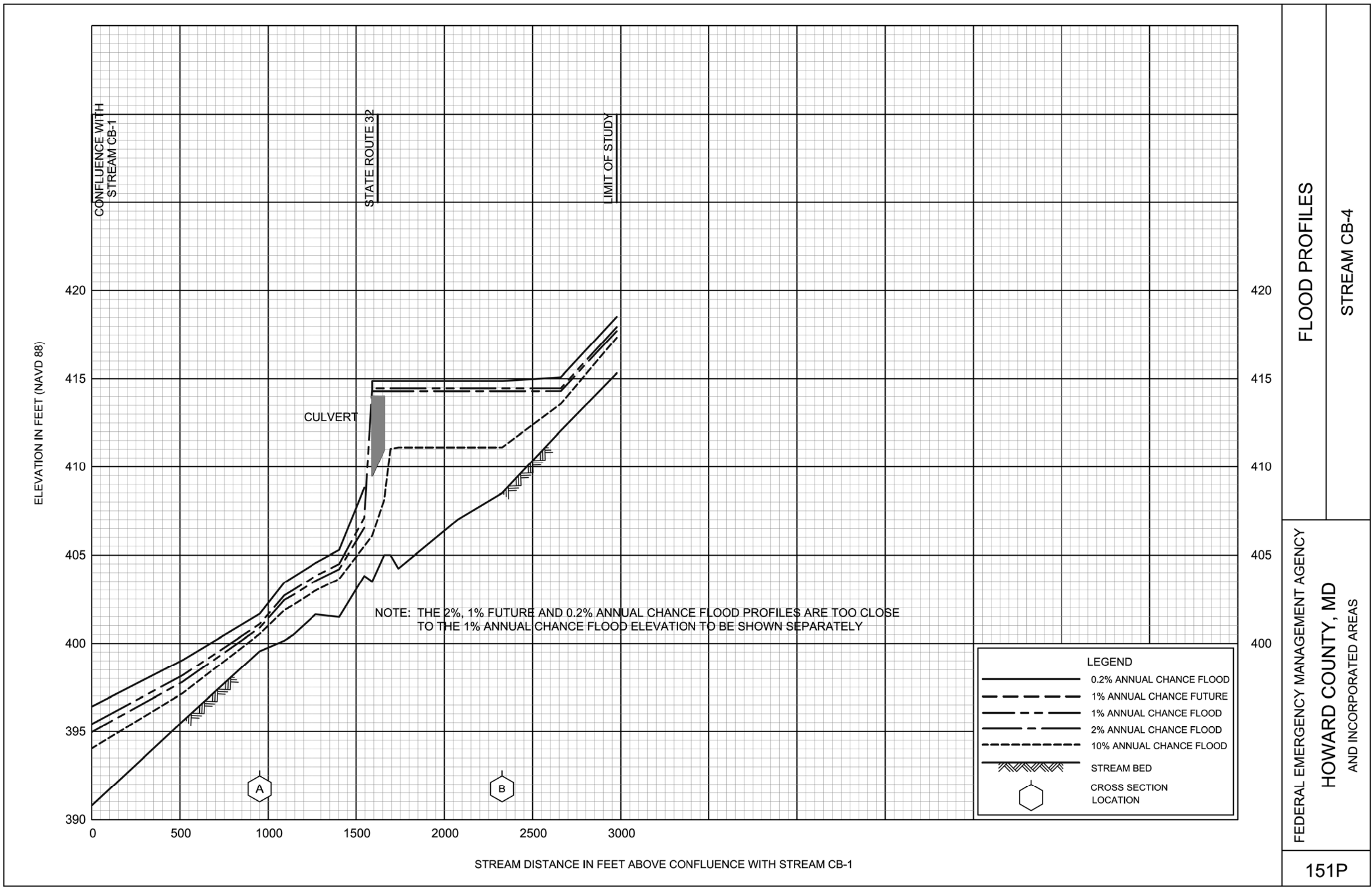
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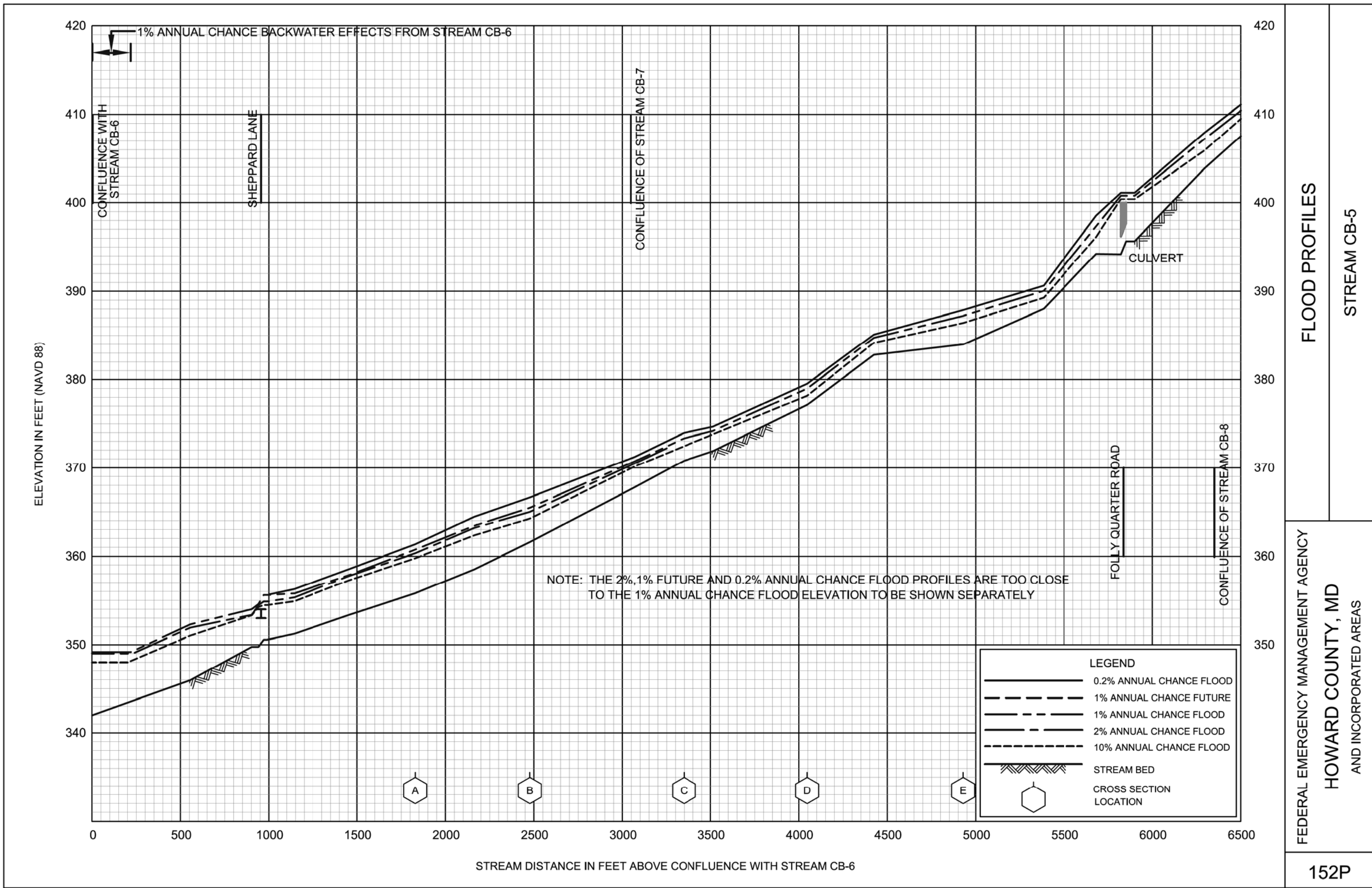
FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD  
AND INCORPORATED AREAS

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH STREAM CB-1





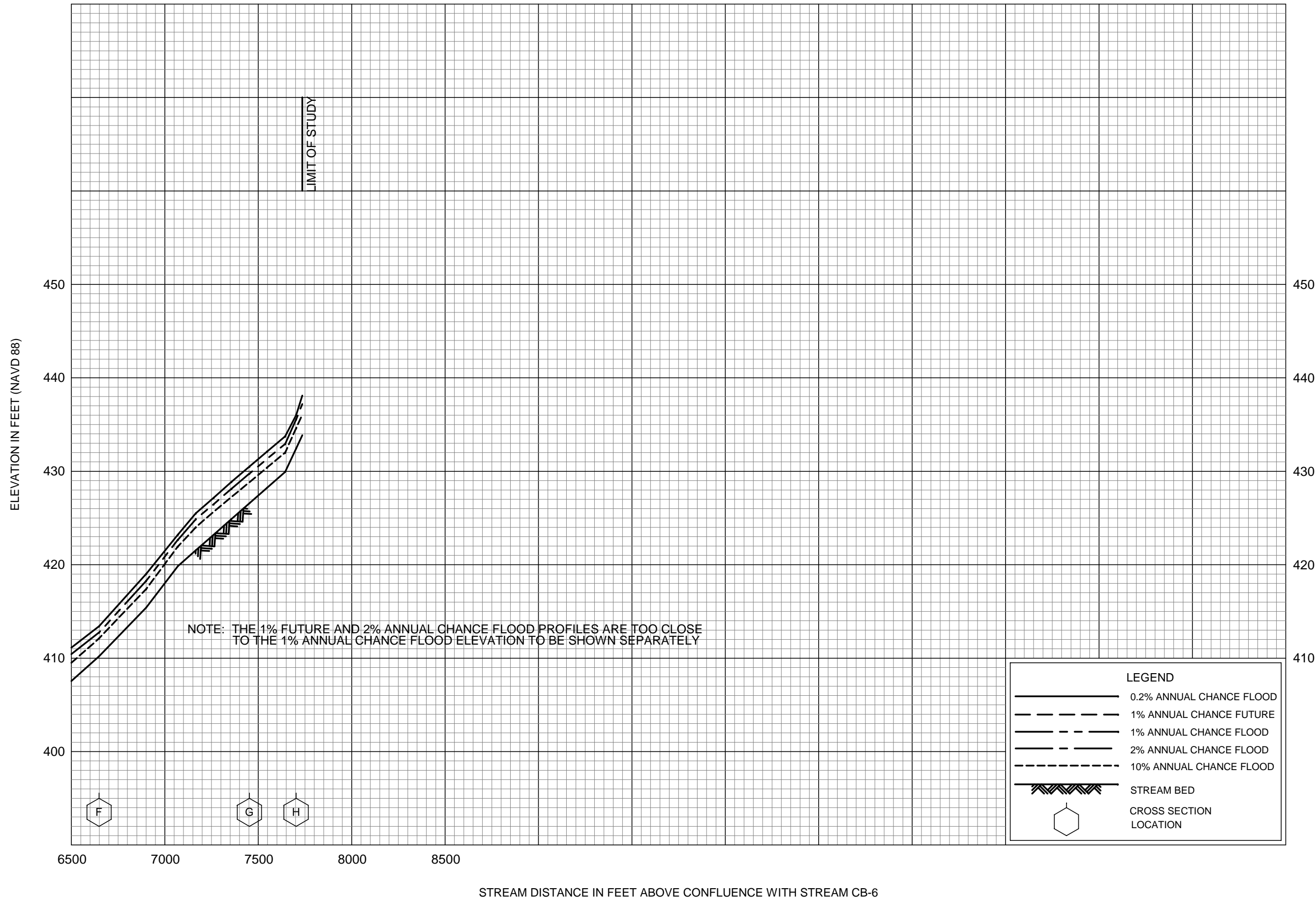


FLOOD PROFILES

STREAM CB-5

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD  
AND INCORPORATED AREAS



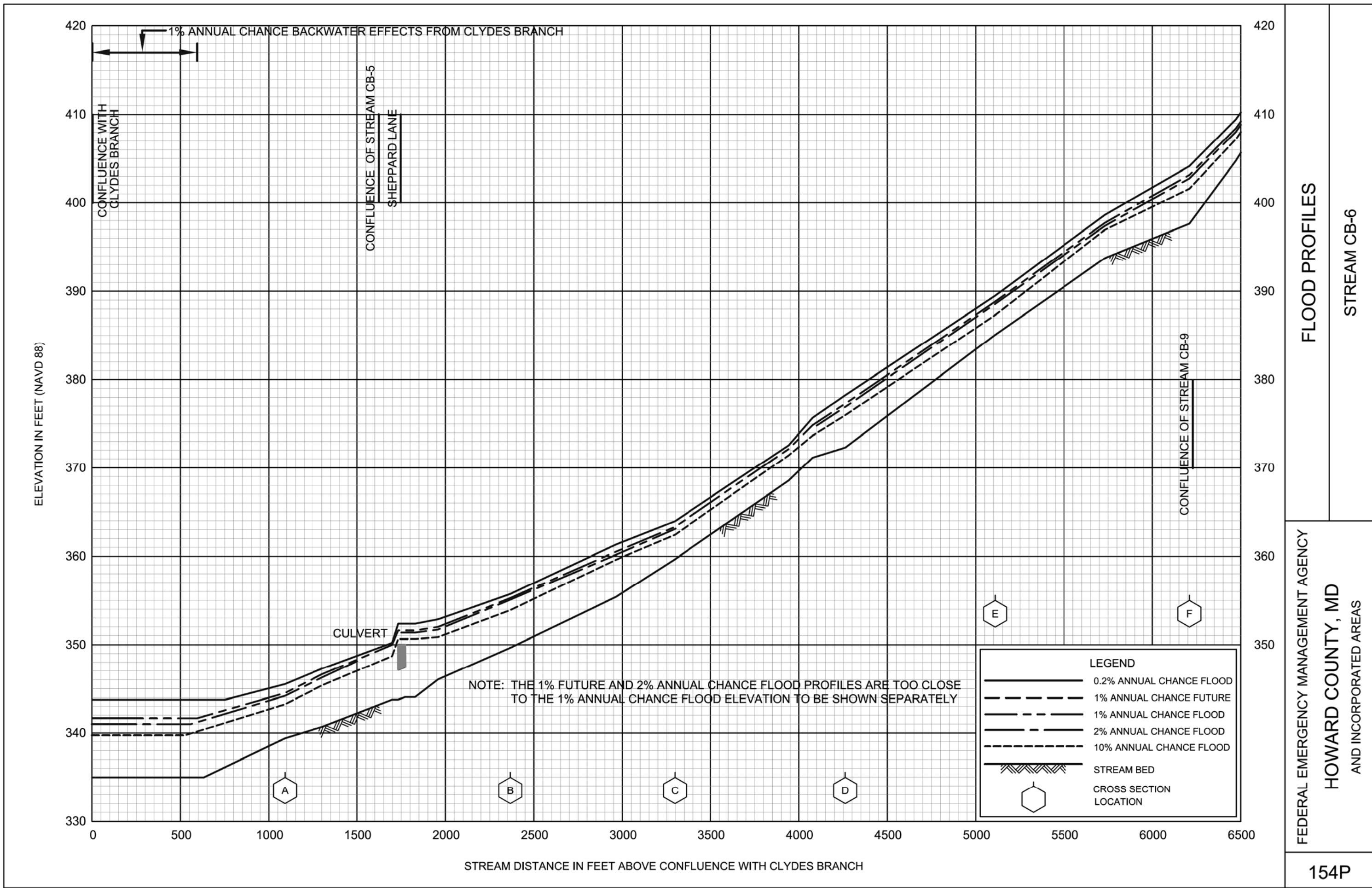
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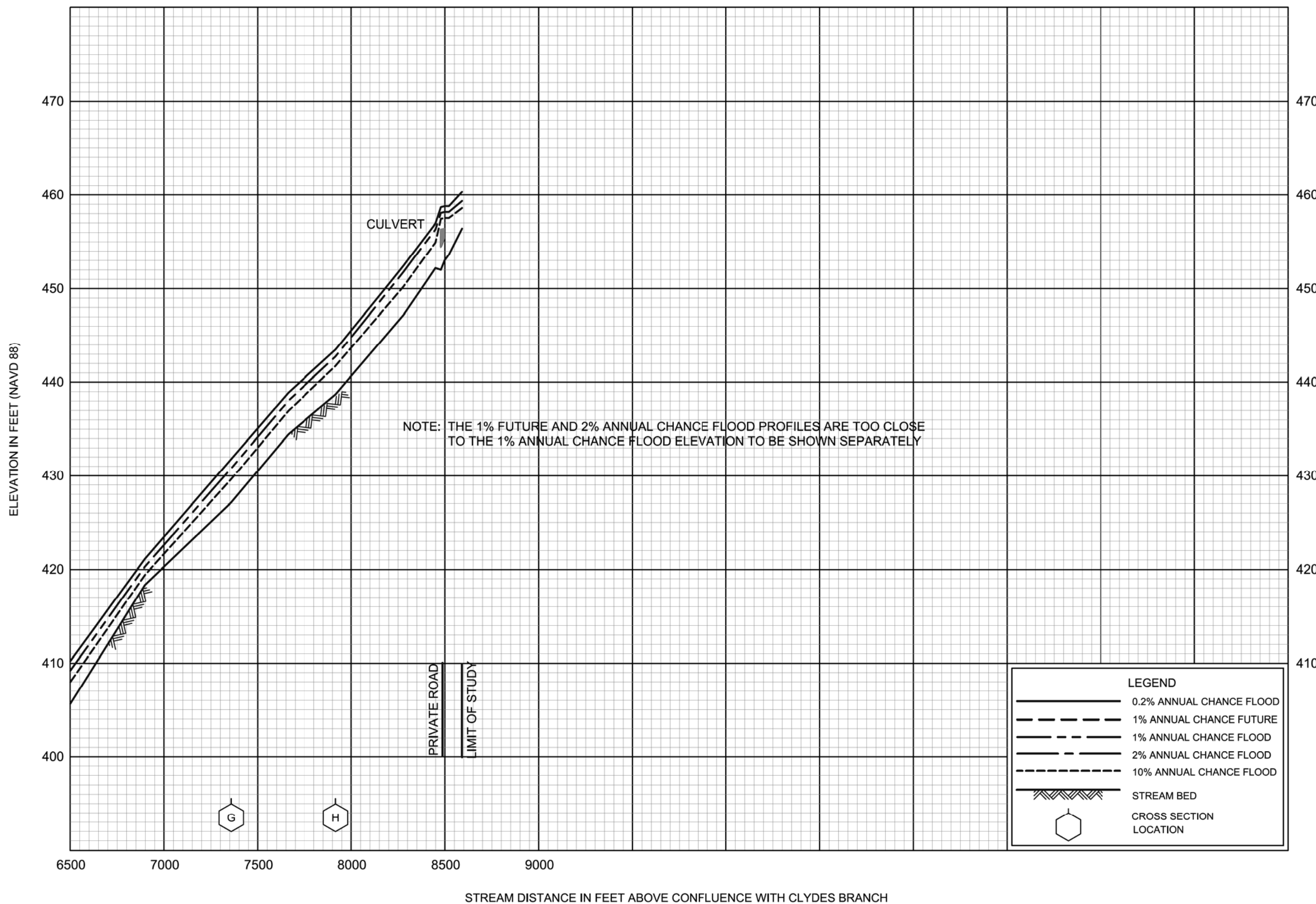
**STREAM CB-5**

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS



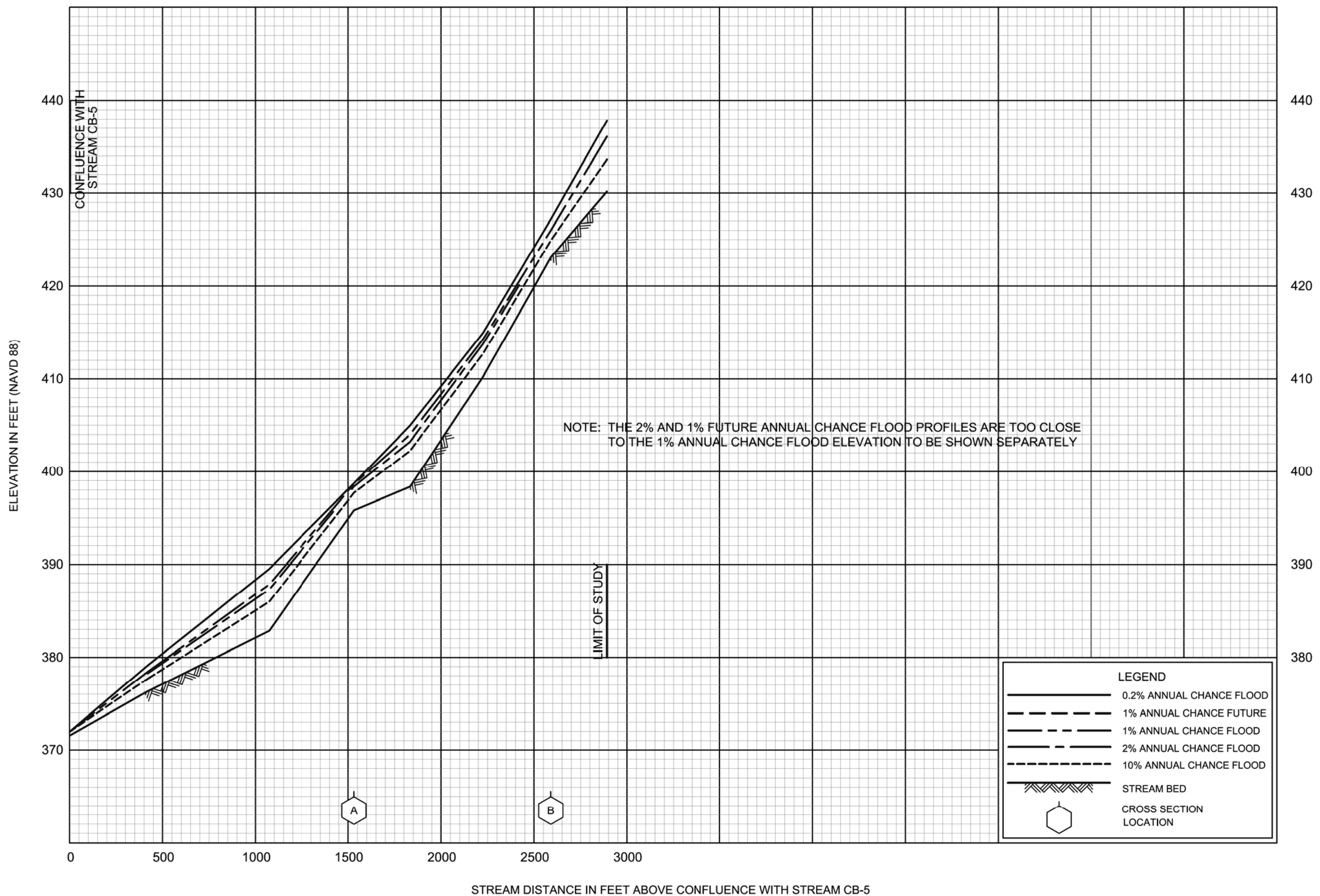


FLOOD PROFILES

STREAM CB-6

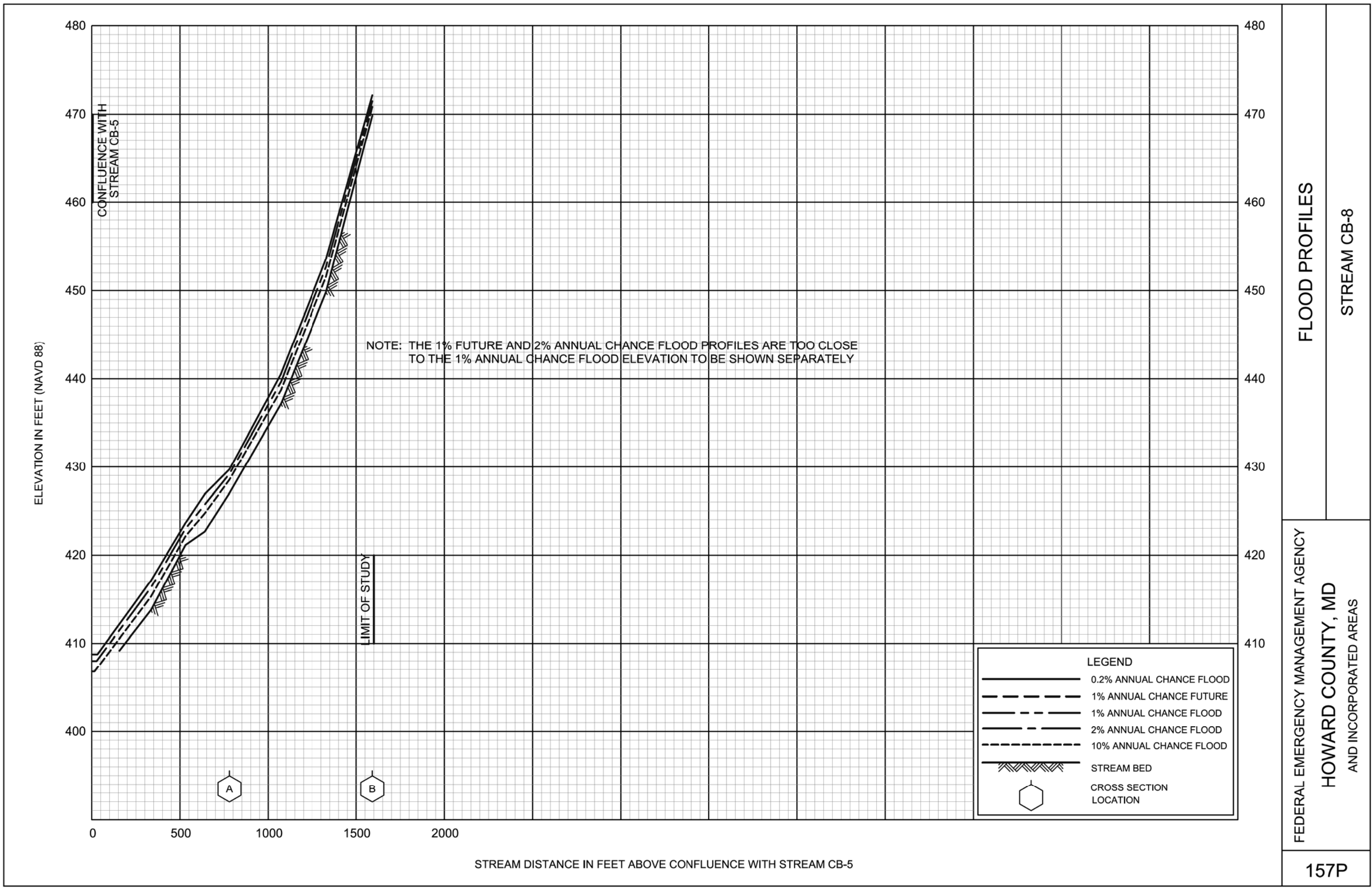
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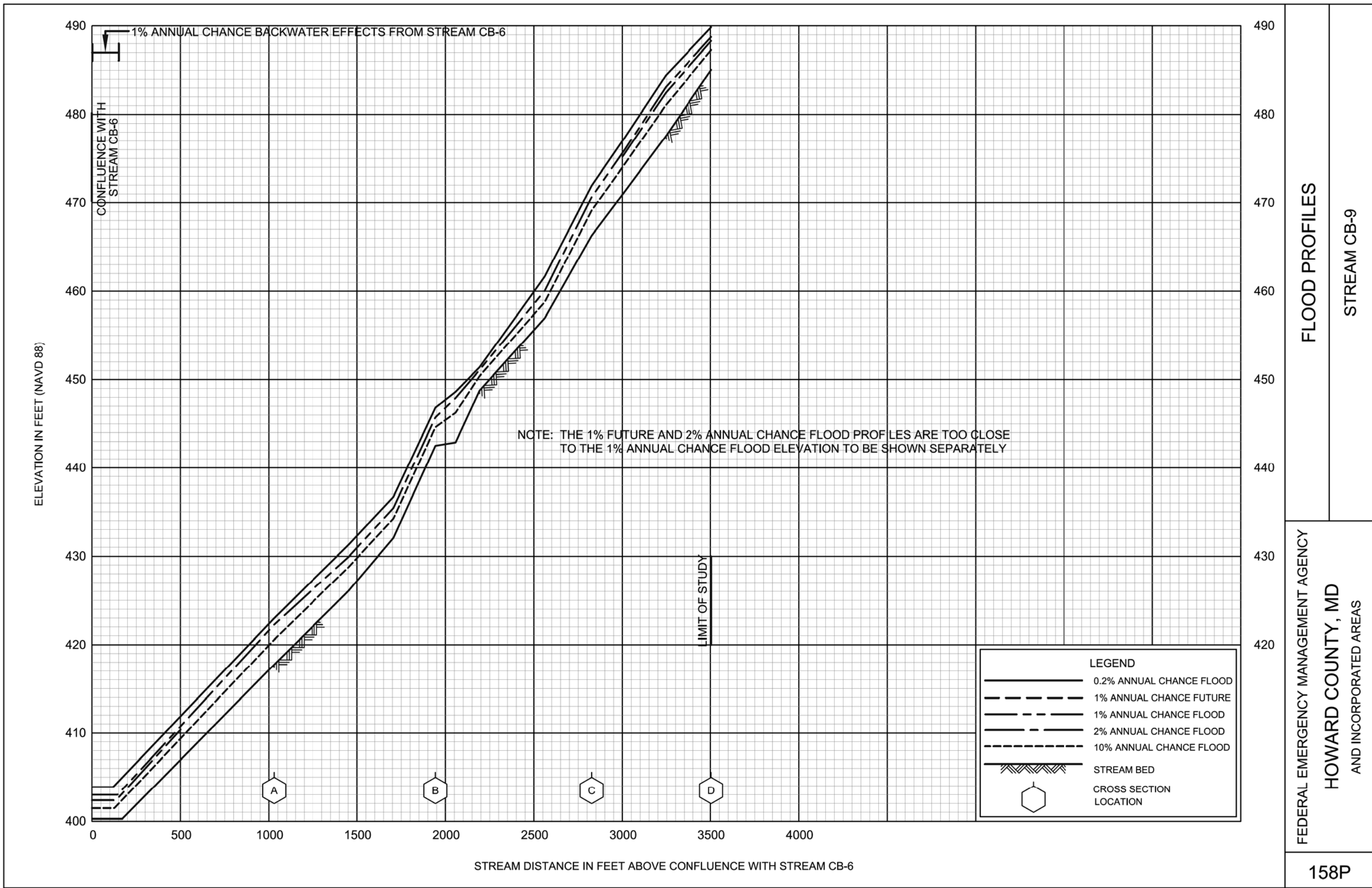
HOWARD COUNTY, MD  
AND INCORPORATED AREAS



FLOOD PROFILES  
STREAM CB-7

FEDERAL EMERGENCY MANAGEMENT AGENCY  
HOWARD COUNTY, MD  
AND INCORPORATED AREAS





FLOOD PROFILES  
STREAM CB-9

FEDERAL EMERGENCY MANAGEMENT AGENCY  
HOWARD COUNTY, MD  
AND INCORPORATED AREAS