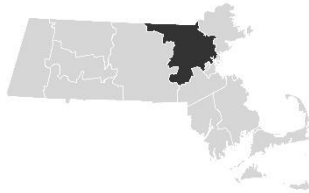


FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 10 OF 15



MIDDLESEX COUNTY, MASSACHUSETTS (ALL JURISDICTIONS)

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
ACTON, TOWN OF	250176	MARLBOROUGH, CITY OF	250203
ARLINGTON, TOWN OF	250177	MAYNARD, TOWN OF	250204
ASHBY, TOWN OF	250178	MEDFORD, CITY OF	250205
ASHLAND, TOWN OF	250179	MELROSE, CITY OF	250206
AYER, TOWN OF	250180	NATICK, TOWN OF	250207
BEDFORD, TOWN OF	255209	NEWTON, CITY OF	250208
BELMONT, TOWN OF	250182	NORTH READING, TOWN OF	250209
BILLERICA, TOWN OF	250183	PEPPERELL, TOWN OF	250210
BOXBOROUGH, TOWN OF	250184	READING, TOWN OF	250211
BURLINGTON, TOWN OF	250185	SHERBORN, TOWN OF	250212
CAMBRIDGE, CITY OF	250186	SHIRLEY, TOWN OF	250213
CARLISLE, TOWN OF	250187	SOMERVILLE, CITY OF	250214
CHELMSFORD, TOWN OF	250188	STONEHAM, TOWN OF	250215
CONCORD, TOWN OF	250189	STOW, TOWN OF	250216
DRACUT, TOWN OF	250190	SUDBURY, TOWN OF	250217
DUNSTABLE, TOWN OF	250191	TEWKSBURY, TOWN OF	250218
EVERETT, CITY OF	250192	TOWNSEND, TOWN OF	250219
FRAMINGHAM, CITY OF	250193	TYNGSBOROUGH, TOWN OF	250220
GROTON, TOWN OF	250194	WAKEFIELD, TOWN OF	250221
HOLLISTON, TOWN OF	250195	WALTHAM, CITY OF	250222
HOPKINTON, TOWN OF	250196	WATERTOWN, TOWN OF	250223
HUDSON, TOWN OF	250197	WAYLAND, TOWN OF	250224
LEXINGTON, TOWN OF	250198	WESTFORD, TOWN OF	250225
LINCOLN, TOWN OF	250199	WESTON, TOWN OF	250226
LITTLETON, TOWN OF	250200	WILMINGTON, TOWN OF	250227
LOWELL, CITY OF	250201	WINCHESTER, TOWN OF	250228
MALDEN, CITY OF	250202	WOBURN, CITY OF	250229

REVISED:

July 8, 2025

FLOOD INSURANCE STUDY NUMBER
25017CV010D

Version Number 2.6.3.6



FEMA

TABLE OF CONTENTS

Volume 1

	<u>Page</u>
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	9
 SECTION 2.0 – FLOODPLAIN MANAGEMENT APPLICATIONS	 21
2.1 Floodplain Boundaries	21
2.2 Floodways	71
2.3 Base Flood Elevations	72
2.4 Non-Encroachment Zones	72
2.5 Coastal Flood Hazard Areas	72
2.5.1 Water Elevations and the Effects of Waves	72
2.5.2 Floodplain Boundaries and BFEs for Coastal Areas	74
2.5.3 Coastal High Hazard Areas	75
2.5.4 Limit of Moderate Wave Action	76
 SECTION 3.0 – INSURANCE APPLICATIONS	 77
3.1 National Flood Insurance Program Insurance Zones	77
 SECTION 4.0 – AREA STUDIED	 79
4.1 Basin Description	79
4.2 Principal Flood Problems	80
4.3 Dams and Other Flood Hazard Reduction Methods	81
4.4 Levee Systems	81
 SECTION 5.0 – ENGINEERING METHODS	 84
5.1 Hydrologic Analyses	84

	<u>Page</u>
<u>Figures</u>	
Figure 1: FIRM Panel Index	12
Figure 2: FIRM Notes to Users	14
Figure 3: Map Legend for FIRM	17
Figure 4: Floodway Schematic	71
Figure 5: Wave Runup Transect Schematic	74
Figure 6: Coastal Transect Schematic	76

<u>Tables</u>	<u>Page</u>
Table 1: Listing of NFIP Jurisdictions	2
Table 2: Flooding Sources Included in this FIS Report	22
Table 3: Flood Zone Designations by Community	77
Table 4: Basin Characteristics	79
Table 5: Principal Flood Problems	80
Table 6: Historic Flooding Elevations	80
Table 7: Dams and Other Flood Hazard Reduction Methods	81
Table 8: Levee Systems	83

Volume 2

	<u>Page</u>
5.2 Hydraulic Analyses	143

<u>Figures</u>	<u>Page</u>
Figure 7: Frequency Discharge-Drainage Area Curves	141

<u>Tables</u>	<u>Page</u>
Table 9: Summary of Discharges	86
Table 10: Summary of Non-Coastal Stillwater Elevations	141
Table 11: Stream Gage Information used to Determine Discharges	143
Table 12: Summary of Hydrologic and Hydraulic Analyses	145

Volume 3

<u>Tables</u>	<u>Page</u>
Table 12: Summary of Hydrologic and Hydraulic Analyses	176

Volume 4

	<u>Page</u>
5.3 Coastal Analyses	327
5.3.1 Total Stillwater Elevations	328
5.3.2 Waves	329
5.3.3 Coastal Erosion	329
5.3.4 Wave Hazard Analyses	329
5.4 Alluvial Fan Analyses	330
SECTION 6.0 – MAPPING METHODS	330
6.1 Vertical and Horizontal Control	330

6.2	Base Map	331
6.3	Floodplain and Floodway Delineation	332

Figures

	<u>Page</u>
Figure 8: 1% Annual Chance Total Stillwater Elevations for Coastal Areas	328
Figure 9: Transect Location Map	330

Tables

	<u>Page</u>
Table 12: Summary of Hydrologic and Hydraulic Analyses	266
Table 13: Roughness Coefficients	311
Table 14: Summary of Coastal Analyses	328
Table 15: Tide Gage Analysis Specifics	329
Table 16: Coastal Transect Parameters	330
Table 17: Summary of Alluvial Fan Analyses	330
Table 18: Results of Alluvial Fan Analyses	330
Table 19: Countywide Vertical Datum Conversion	331
Table 20: Stream-Based Vertical Datum Conversion	331
Table 21: Base Map Sources	332
Table 22: Summary of Topographic Elevation Data used in Mapping	333
Table 23: Floodway Data	335

Volume 5

Tables

	<u>Page</u>
Table 23: Floodway Data	355

Volume 6

Tables

	<u>Page</u>
Table 23: Floodway Data	445

Volume 7

	<u>Page</u>
6.4 Coastal Flood Hazard Mapping	589
6.5 FIRM Revisions	590
6.5.1 Letters of Map Amendment	590
6.5.2 Letters of Map Revision Based on Fill	590
6.5.3 Letters of Map Revision	591
6.5.4 Physical Map Revisions	592
6.5.5 Contracted Restudies	593

6.5.6	Community Map History	593
-------	-----------------------	-----

SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION **598**

7.1	Contracted Studies	598
-----	--------------------	-----

Tables

	<u>Page</u>
Table 23: Floodway Data	535
Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams	589
Table 25: Summary of Coastal Transect Mapping Considerations	590
Table 26: Incorporated Letters of Map Change	591
Table 27: Community Map History	594
Table 28: Summary of Contracted Studies Included in this FIS Report	599

Volume 8

	<u>Page</u>
7.2 Community Meetings	639

SECTION 8.0 – ADDITIONAL INFORMATION **652**

SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES **655**

Tables

	<u>Page</u>
Table 28: Summary of Contracted Studies Included in this FIS Report	625
Table 29: Community Meetings	640
Table 30: Map Repositories	652
Table 31: Additional Information	654
Table 32: Bibliography and References	656

Volume 9

Exhibits

Flood Profiles	<u>Panel</u>
Aberjona River	001-008 P
Aberjona River North Spur	009-010 P
Alewife Brook	011-013 P
Angelica Brook	014-015 P
Assabet Branch No. 3	016-017 P
Assabet Branch No. 4	018 P
Assabet River	019-038 P
Baddacook Brook	039-040 P
Baiting Brook	041-043 P
Bear Meadow Brook	044 P

Beaver Brook 1	045-049 P
Beaver Brook 2	050-054 P
Beaver Brook 2 – Split 1	055 P
Beaver Brook 2 – Split 2	056 P
Beaver Brook 2 – Split 3	057 P
Beaver Brook 3	058-061 P
Beaver Brook 4	062-071 P
Beaver Brook 5	072-073 P
Beaver Dam Brook	074-082 P
Bennetts Brook	083-087 P
Birch Meadow Brook	088 P
Black Brook	089 P

Volume 10

Exhibits

Flood Profiles	<u>Panel</u>
Bogastow Brook – Jar Brook	090-095 P
Bogle Brook 1	096-097 P
Bogle Brook 2	098-103 P
Boons Pond Branch	104 P
Boutwell Brook	105-106 P
Bow Brook	107-108 P
Branch of Assabet River	109-110 P
Branch of Elizabeth Brook 1	111 P
Broad Meadow Brook	112-113 P
Brook A	114 P
Brook from Waushakum Pond	115-116 P
Butter Brook	117-119 P
Catacoonamug Brook	120-121 P
Charles River	122-133 P
Cheese Cake Brook	134 P
Cherry Brook	135-137 P
Chester Brook	138-141 P
Chicken Brook	142-145 P
Cochituate Brook	146 P
Cold Brook	147 P
Cold Spring Brook	148-151 P
Coles Brook	152 P
Collins Brook	153 P
Conant Brook	154-157 P
Concord River	158-164 P
Content Brook – Middlesex Canal	165-167 P
Course Brook	168 P
Cow Pond Brook	169-171 P
Cranberry Brook	172-173 P
Cummings Brook	174-175 P
Dakins Brook	176 P

Volume 11
Exhibits

Flood Profiles	<u>Panel</u>
Danforth Brook	177-180 P
Darby Brook	181-182 P
Davis Brook	183-184 P
Dirty Meadow Brook	185 P
Dopping Brook	186-187 P
Dudley Brook - Tributary A to Dudley Brook	188-191 P
East Outlet	192-193 P
Elizabeth Brook 1	194-197 P
Elizabeth Brook 2	198-203 P
Elm Brook	204-206 P
Farley Brook	207-208 P
Farley Brook Split 1	209 P
Farrar Pond Brook	210-211 P
Fort Meadow Brook	212-217 P
Fort Pond Brook	218-225 P
Fort Pond Brook Branch 1	226 P
Fort Pond Brook Branch 2	227 P
Grassy Pond Brook	228-229 P
Graves Pond Brook	230 P
Great Road Tributary	231 P
Greens Brook	232-233 P
Guggins Brook	234-236 P
Gumpas Pond Brook	237 P
Hales Brook	238-239 P
Halls Brook	240-242 P
Hayward Brook	243-244 P
Heath Brook	245-246 P
Heath Hen Meadow Brook	247-248 P
Heath Hen Meadow Split	249 P
Hobbs Brook 1	250-251 P
Hobbs Brook 2	252-253 P
Hog Brook	254-255 P
Hop Brook	256-260 P
Horn Pond Brook – Fowle Brook	261-263 P
Inch Brook	264 P

Volume 12
Exhibits

Flood Profiles	<u>Panel</u>
Ipswich River	265-270 P

James Brook	271-278 P
Jenny Dugan Brook	279-280 P
Jones Brook	281-282 P
Kiln Brook	283-284 P
King Street Tributary	285-286 P
Landham-Allowance Brook	287-291 P
Lawrence Brook	292-294 P
Little Brook	295 P
Locke Brook	296-297 P
Lower Spot Pond Brook	298 P
Lubbers Brook	299-304 P
Malden River	305-307 P
Maple Meadow Brook	308-310 P
Marginal Brook	311 P
Marshall Brook	312-314 P
Martins Brook	315-317 P
Martins Pond Brook	318-319 P
Mascuppic Brook	320-321 P
Mason Brook	322-325 P
Meadow Brook	326-327 P
Meadow River Branch	328-329 P
Merrimack River	330-332 P
Mill Brook 1	333-335 P
Mill Brook 2	336-337 P
Mill Brook 3	338-341 P
Mill Pond Tributary	342-343 P
Mill River	344-346 P
Mineway Brook	347-352 P

Volume 13

Exhibits

Flood Profiles	<u>Panel</u>
Mongo Brook	353-354 P
Morse Brook	355 P
Mowry Brook	356-357 P
Mud Pond Brook	358 P
Muddy Brook	359 P
Mulpus Brook	360-368 P
Munroe Brook	369-371 P
Mystic River	372-374 P
Nagog Brook	375-377 P
Nashoba Brook	378-381 P
Nashua River	382-389 P
Nissitissit River	390-392 P
Nonacoicus Brook 1	393-394 P
Nonacoicus Brook 2	395 P
North Lexington Brook	396-398 P
Pages Brook	399-401 P
Pages Brook Branch	402 P

Pantry Brook	403-405 P
Pearl Hill Brook	406-409 P
Peppermint Brook	410-411 P
Pine Brook	412 P
Pole Brook	413-416 P
Pratts Brook	417 P
Putnam Brook	418 P
Reedy Meadow Brook	419-420 P
Richardson Brook	421-423 P
River Meadow Brook	424-428 P
Run Brook	429-431 P
Salmon Brook	432-434 P
Sandy Brook	435-436 P
Saugus River	437-441 P
Saunders Brook	442 P

Volume 14

Exhibits

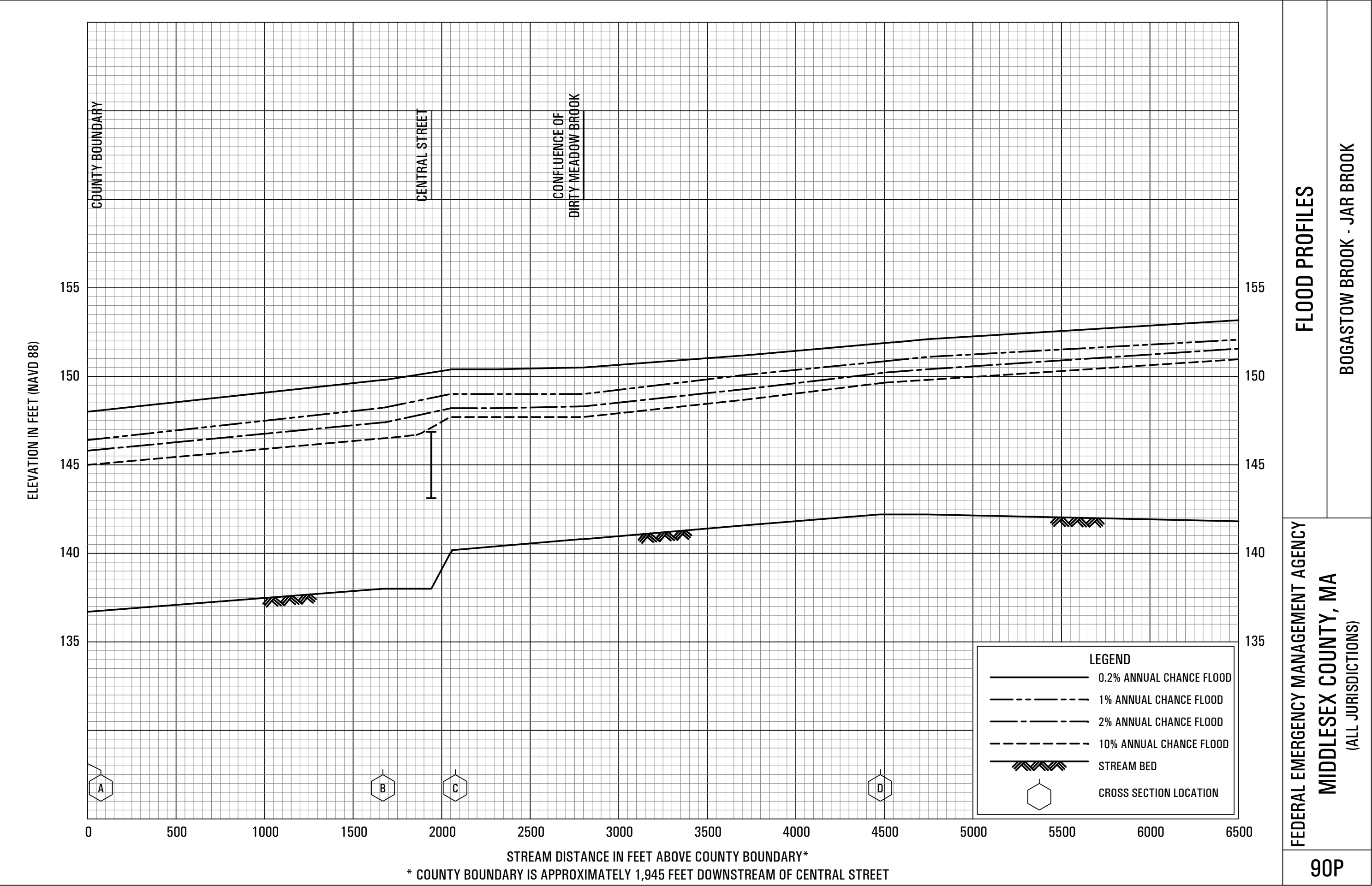
Flood Profiles	<u>Panel</u>
Sawmill Brook 1	443-444 P
Sawmill Brook 2	445 P
Schneider Brook	446-447 P
Shakers Glen Brook	448 P
Shawsheen River	449-456 P
Skug River	457-458 P
Snake Brook	459-460 P
South Meadow Brook – Paul Brook	461-462 P
Spencer Brook	463-466 P
Spring Brook	467-469 P
Squannacook River	470-476 P
Stony Brook	477-478 P
Stony Brook 1	479-493 P
Stony Brook 2	494-500 P
Strong Water Brook	501-502 P
Sudbury River	503-512 P
Sutton Brook	513-514 P
Sweetwater Brook	515 P
Tadmuck Brook	516-517 P
Tadmuck Swamp Brook	518 P
Taylor Brook	519 P
Tributary 1 to Coles Brook	520 P
Tributary 1 to Sudbury River	521 P
Tributary 2 to Assabet River	522 P
Tributary 2 to Tributary 1 to Coles Brook	523 P
Tributary 3 to Bogle Brook 2	524 P
Tributary 4 to Bogle Brook 2	525 P
Tributary A to Cold Brook	526-528 P
Tributary A to Course Brook	529 P
Tributary A to Hop Brook	530-531 P

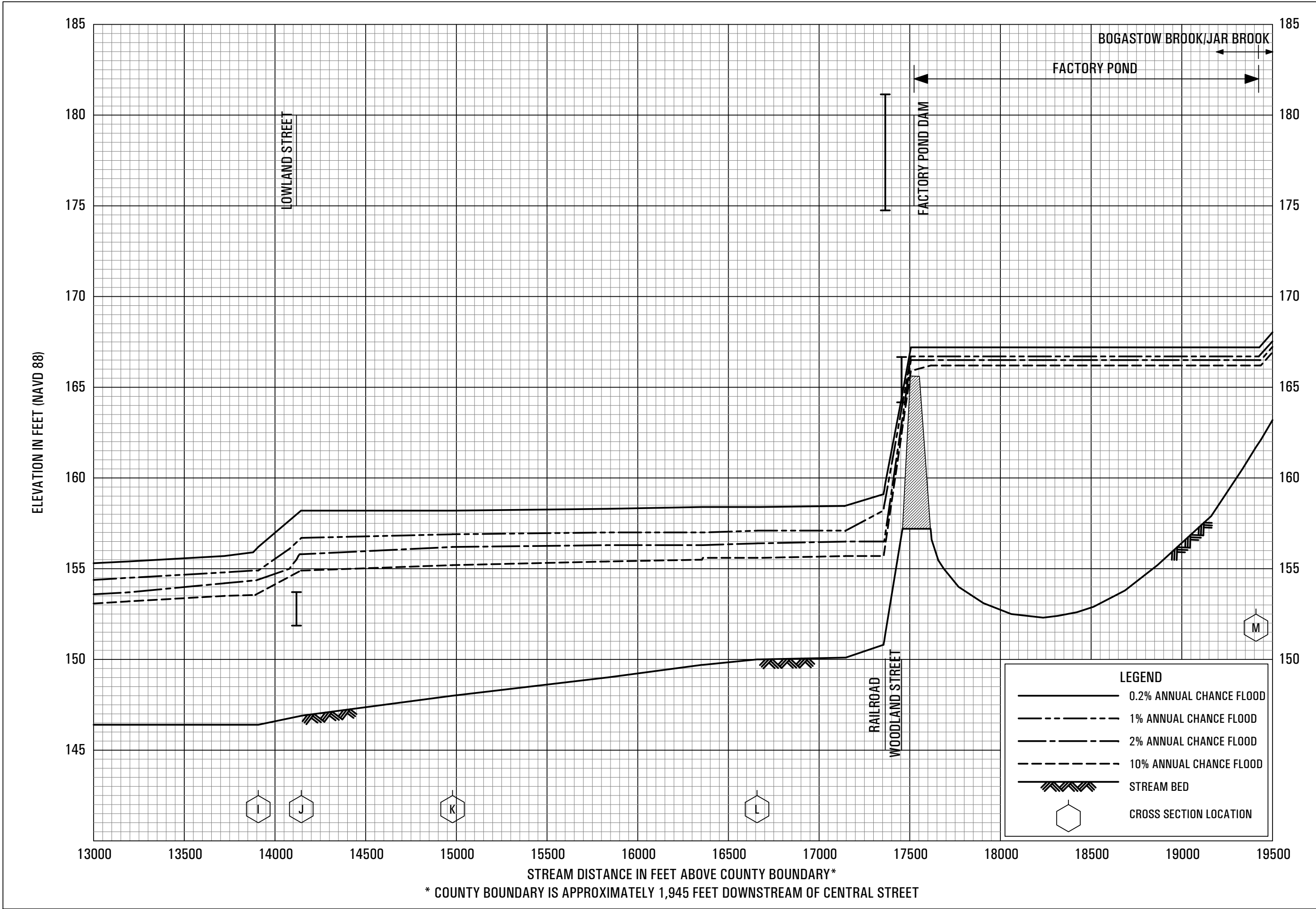
Volume 15
Exhibits

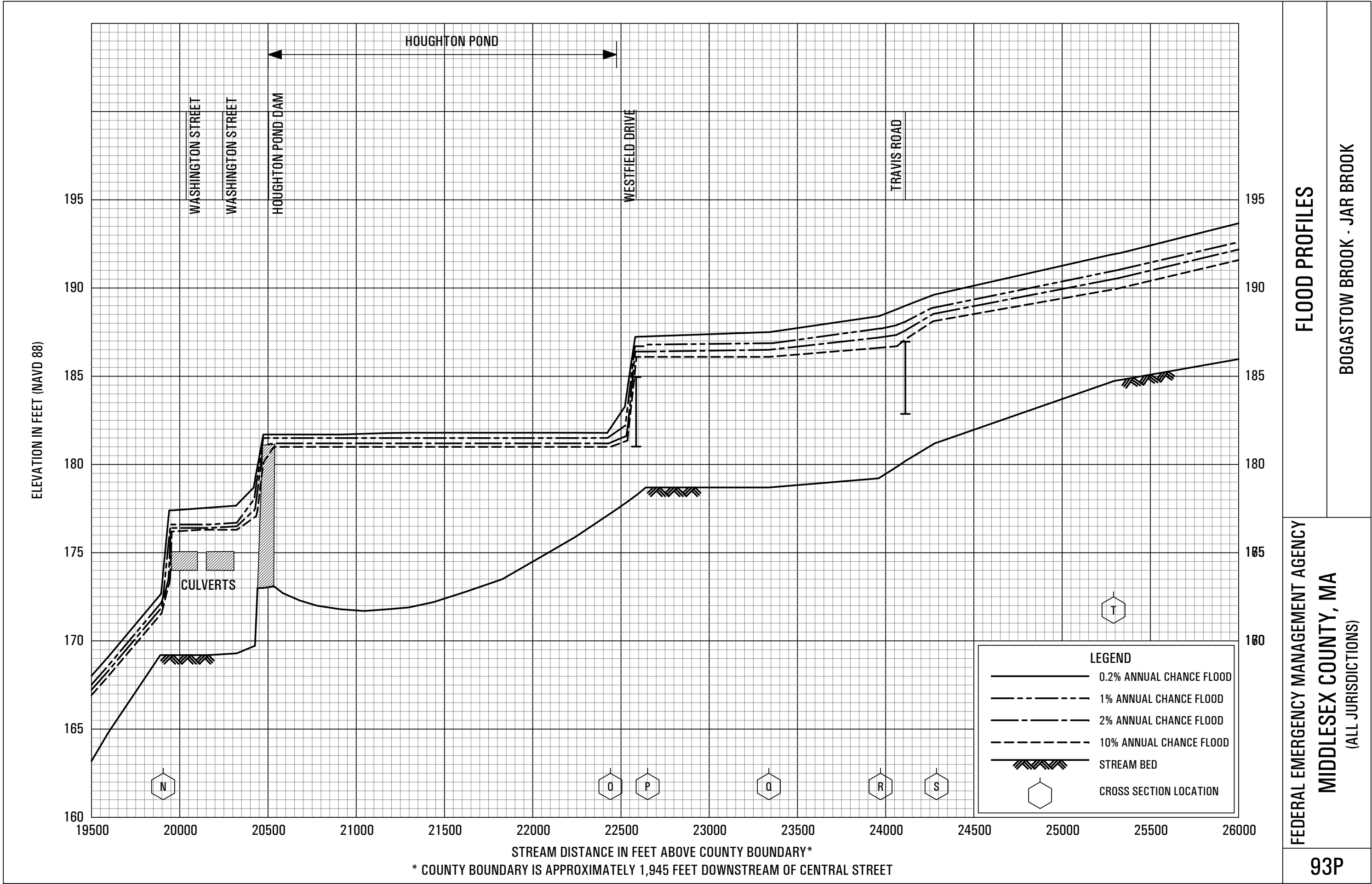
Flood Profiles	<u>Panel</u>
Tributary A to Pantry Brook	532-533 P
Tributary A to Squannacook River	534-535 P
Tributary B to Hop Brook	536 P
Tributary B to Squannacook River	537-538 P
Tributary B to Vine Brook	539-540 P
Tributary C to Vine Brook	541-542 P
Tributary to Beaver Brook 3	543 P
Tributary to Cold Spring Brook	544-545 P
Tributary to Martins Brook	546 P
Tributary to Mill Brook	547-550 P
Tributary to Nonacoicus Brook 1 - Long Pond Brook	551-555 P
Tributary to Waushakum Pond	556-557 P
Trout Brook	558-559 P
Trout Brook 1	560 P
Trout Brook 2	561-563 P
Trull Brook	564-569 P
Trull Brook Tributary	570-571 P
Unkety Brook	572-574 P
Unnamed Tributary to Mill Brook 2	575 P
Valley Pond	576 P
Varnum Brook	577-580 P
Vine Brook	581-586 P
Walker Brook 1	587-589 P
Walker Brook 2	590-593 P
Walker Brook 3	594-596 P
Walkers Brook	597-600 P
Wellington Brook	601 P
West Chester Brook	602-604 P
Whitehall Brook	605-607 P
Willard Brook	608-609 P
Winthrop Canal	610-611 P
Witch Brook	612-614 P

Published Separately

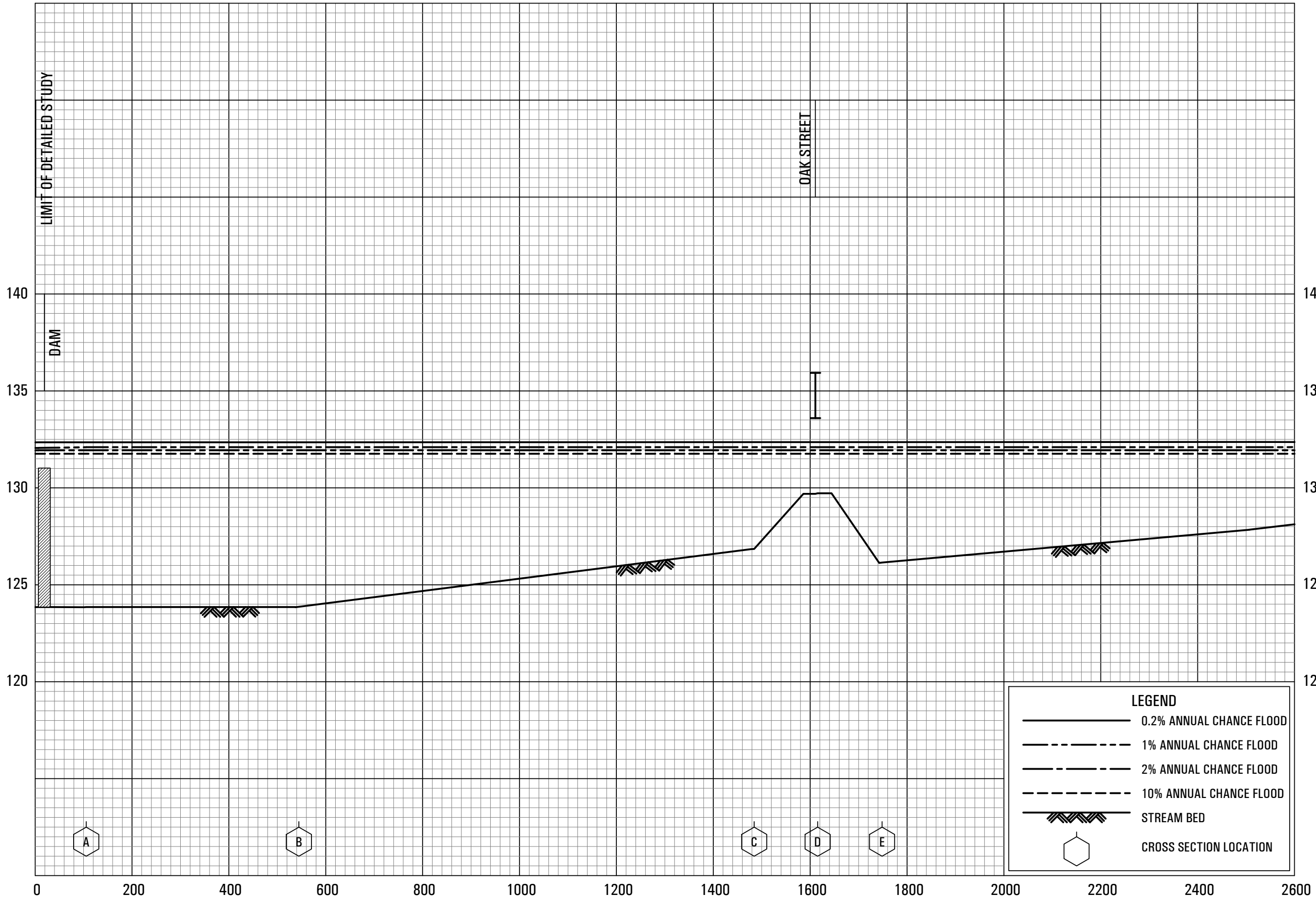
Flood Insurance Rate Map (FIRM)







ELEVATION IN FEET (NAVD 88)



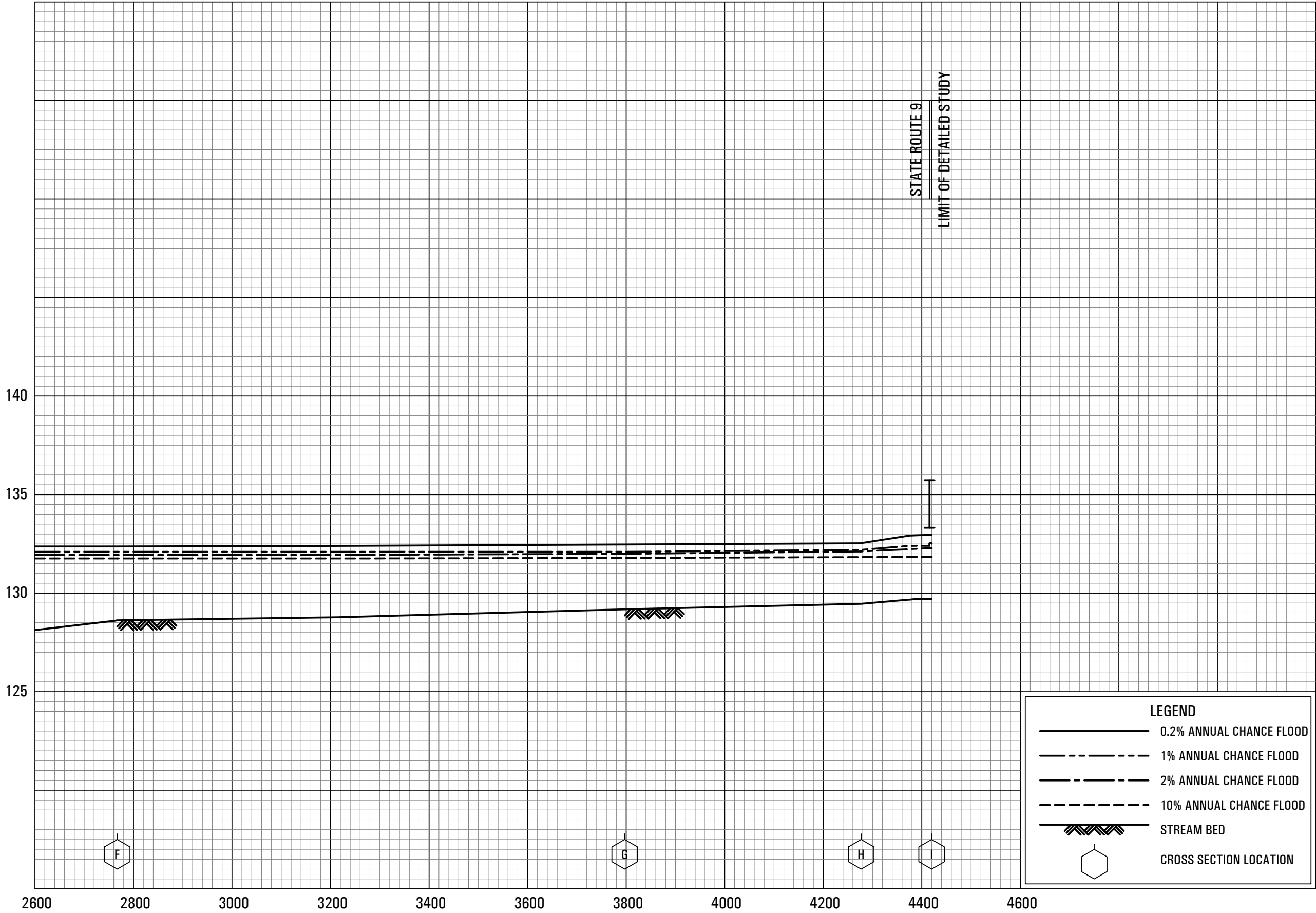
STREAM DISTANCE IN FEET ABOVE LIMIT OF DETAILED STUDY*
*LIMIT OF DETAILED STUDY IS APPROXIMATELY 1,609 FEET DOWNSTREAM OF OAK STREET

FLOOD PROFILES

BOGLE BROOK 1

FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)

ELEVATION IN FEET (NAVD 88)



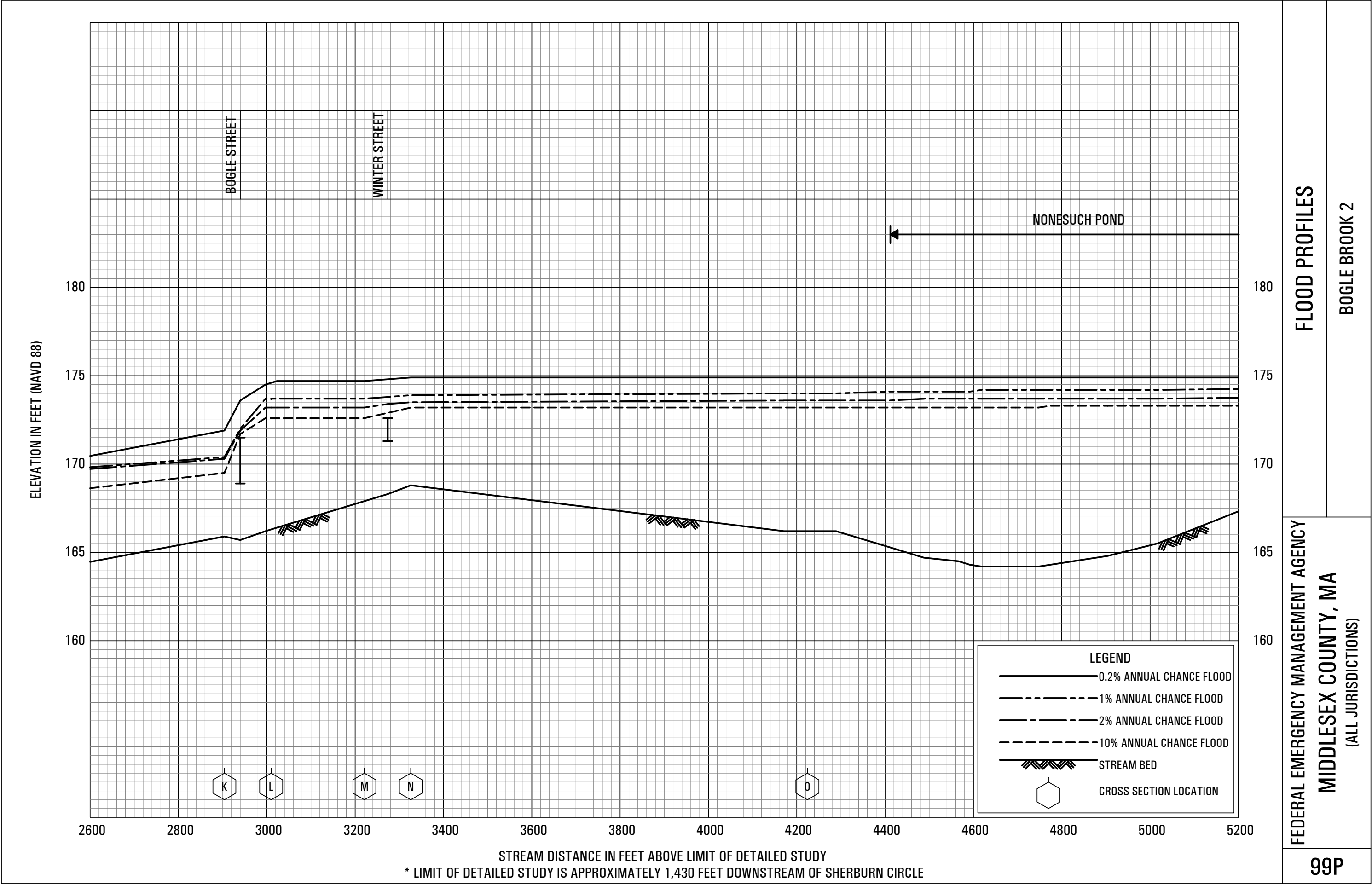
STREAM DISTANCE IN FEET ABOVE LIMIT OF DETAILED STUDY*

*LIMIT OF DETAILED STUDY IS APPROXIMATELY 1,609 FEET DOWNSTREAM OF OAK STREET

FLOOD PROFILES

BOGLE BROOK 1

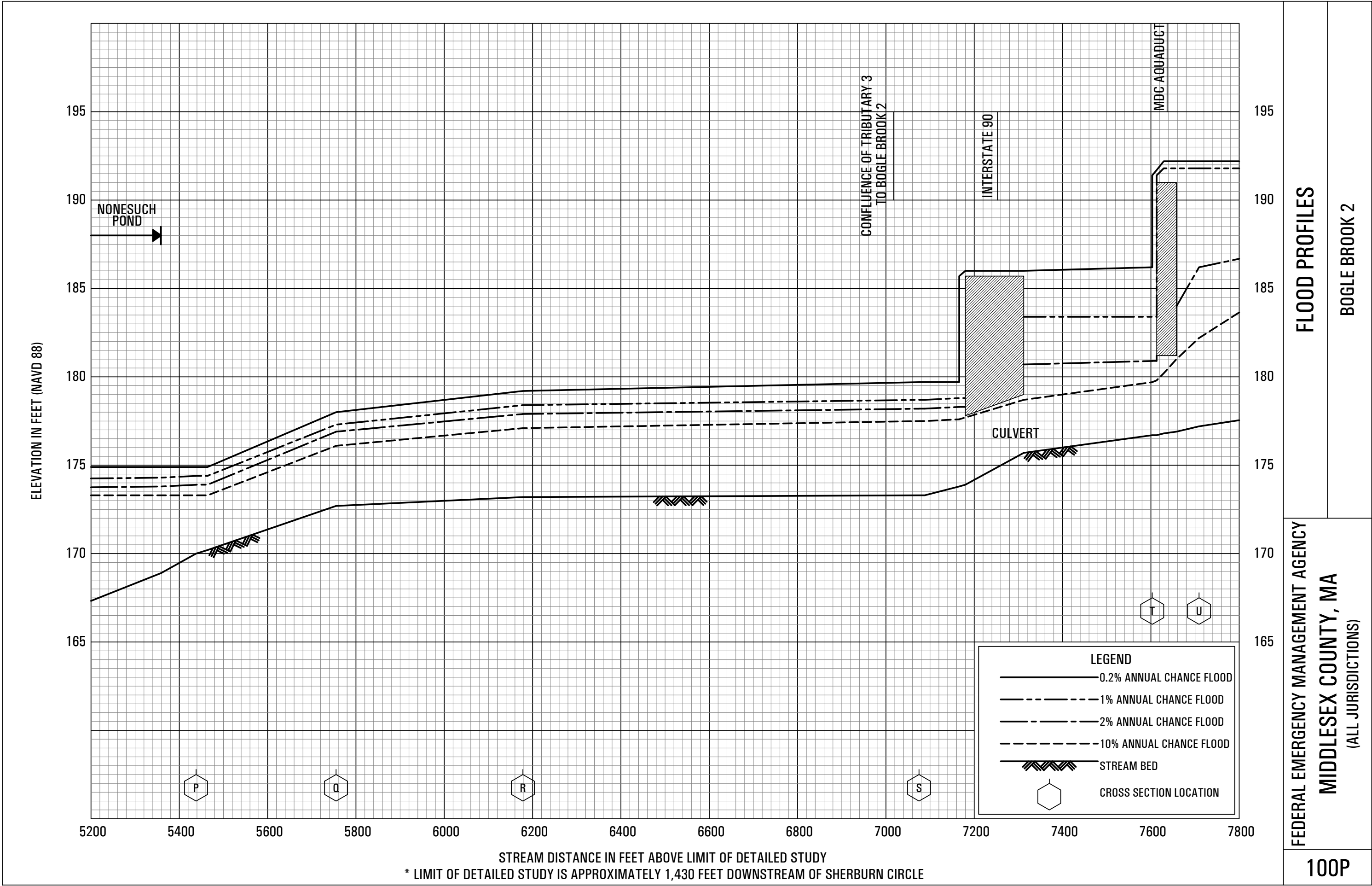
FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)

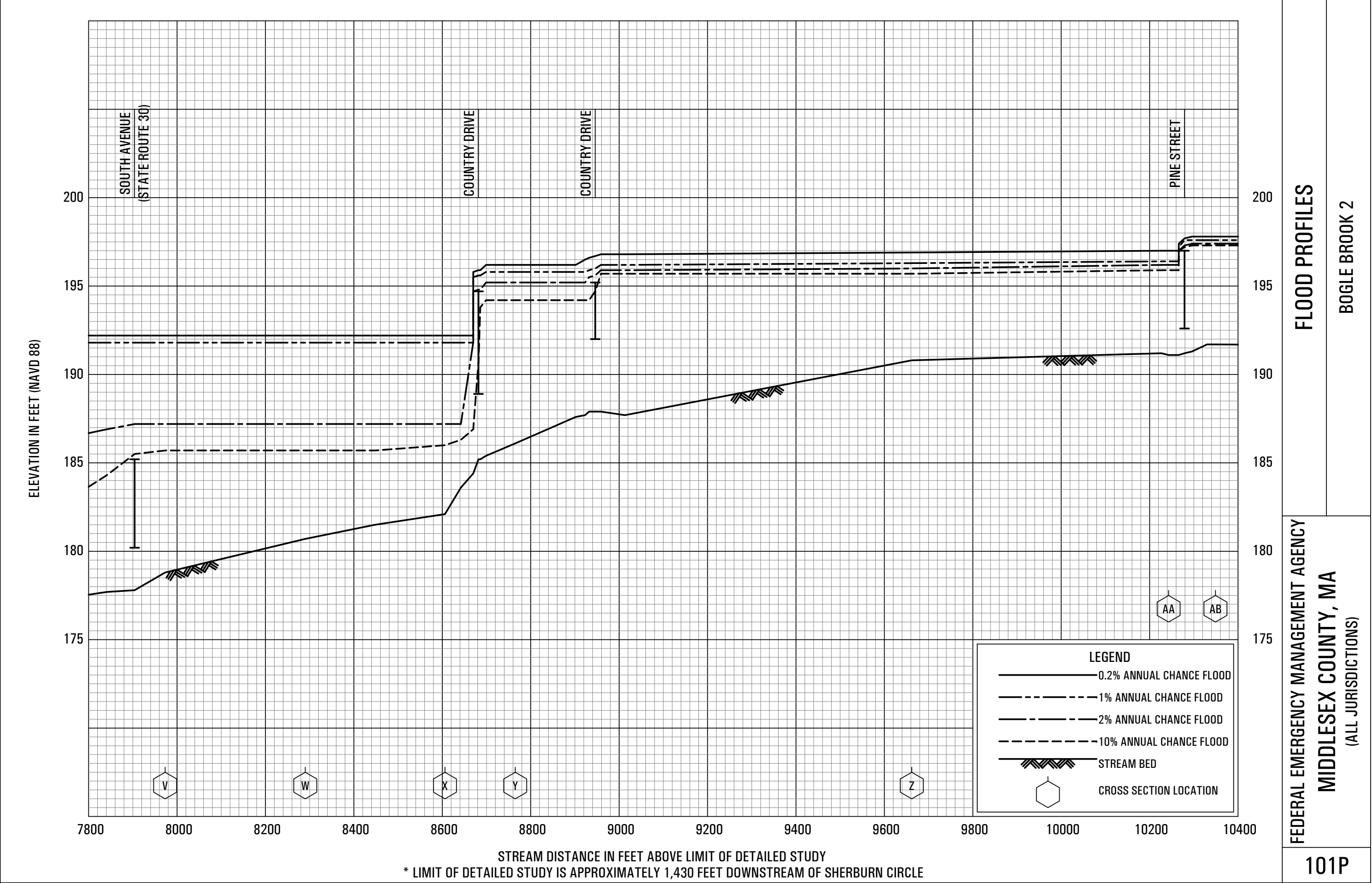


FLOOD PROFILES

BOGLE BROOK 2

FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)

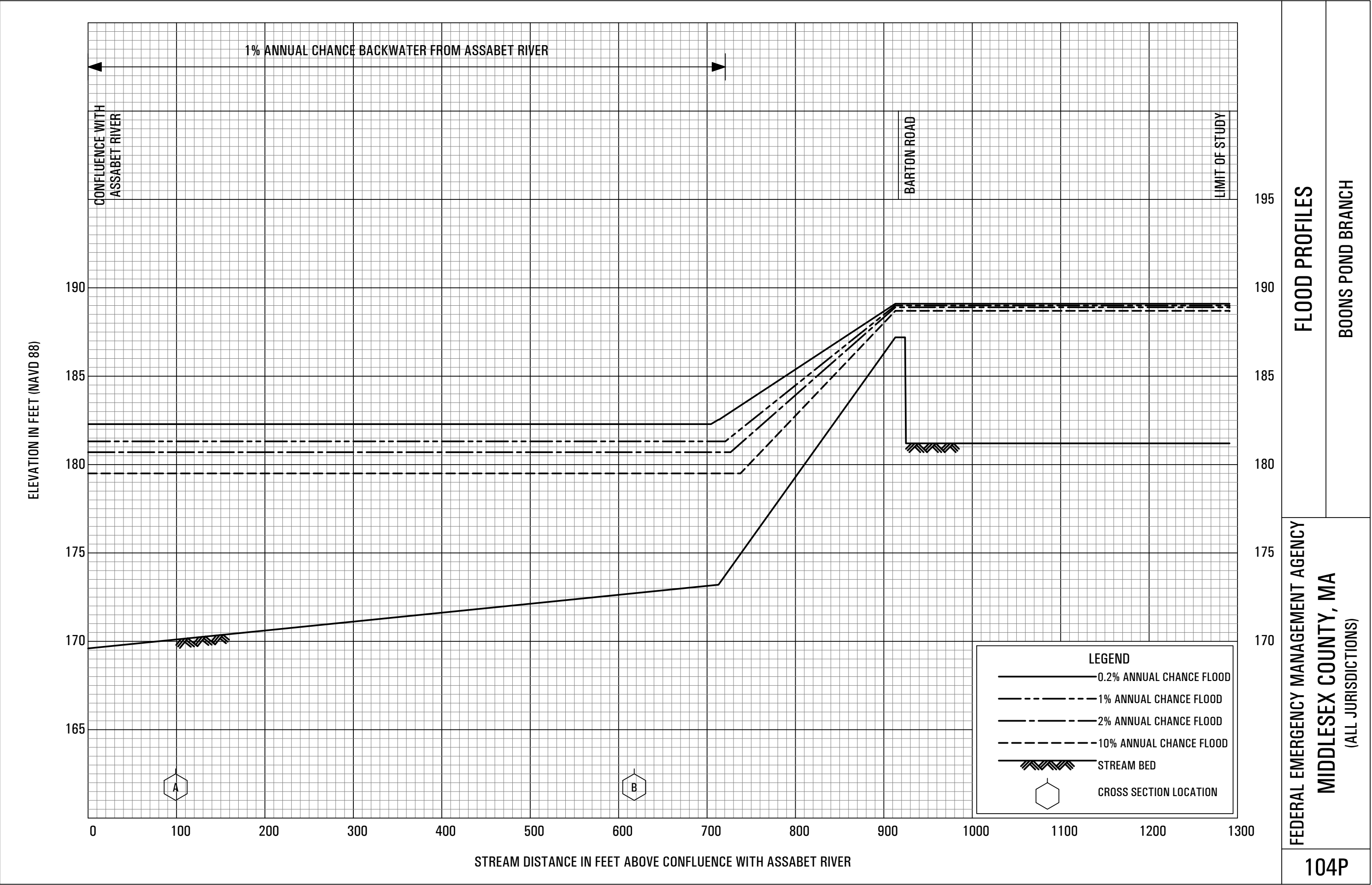


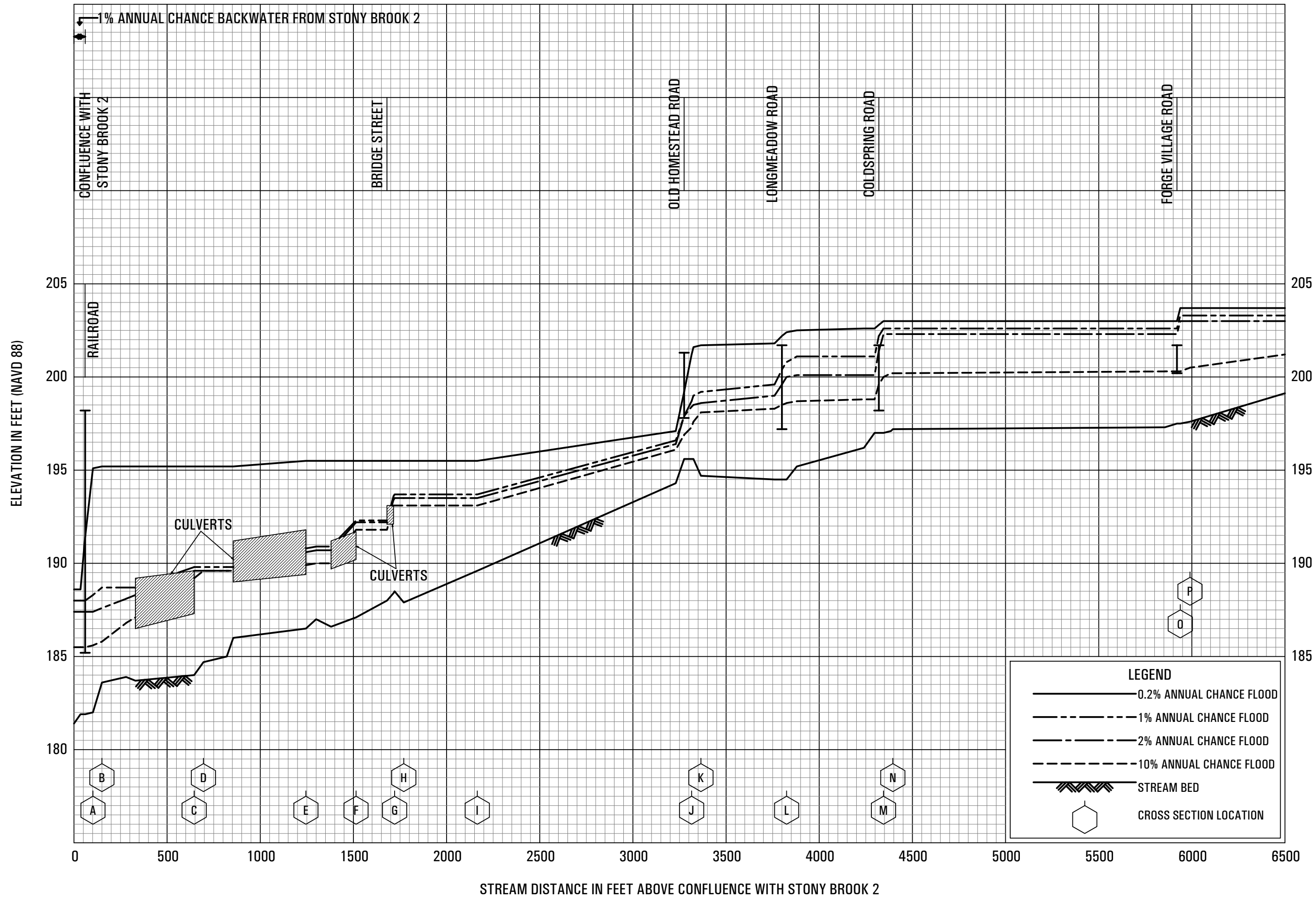


FLOOD PROFILES

BOGLE BROOK 2

FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)





FLOOD PROFILES

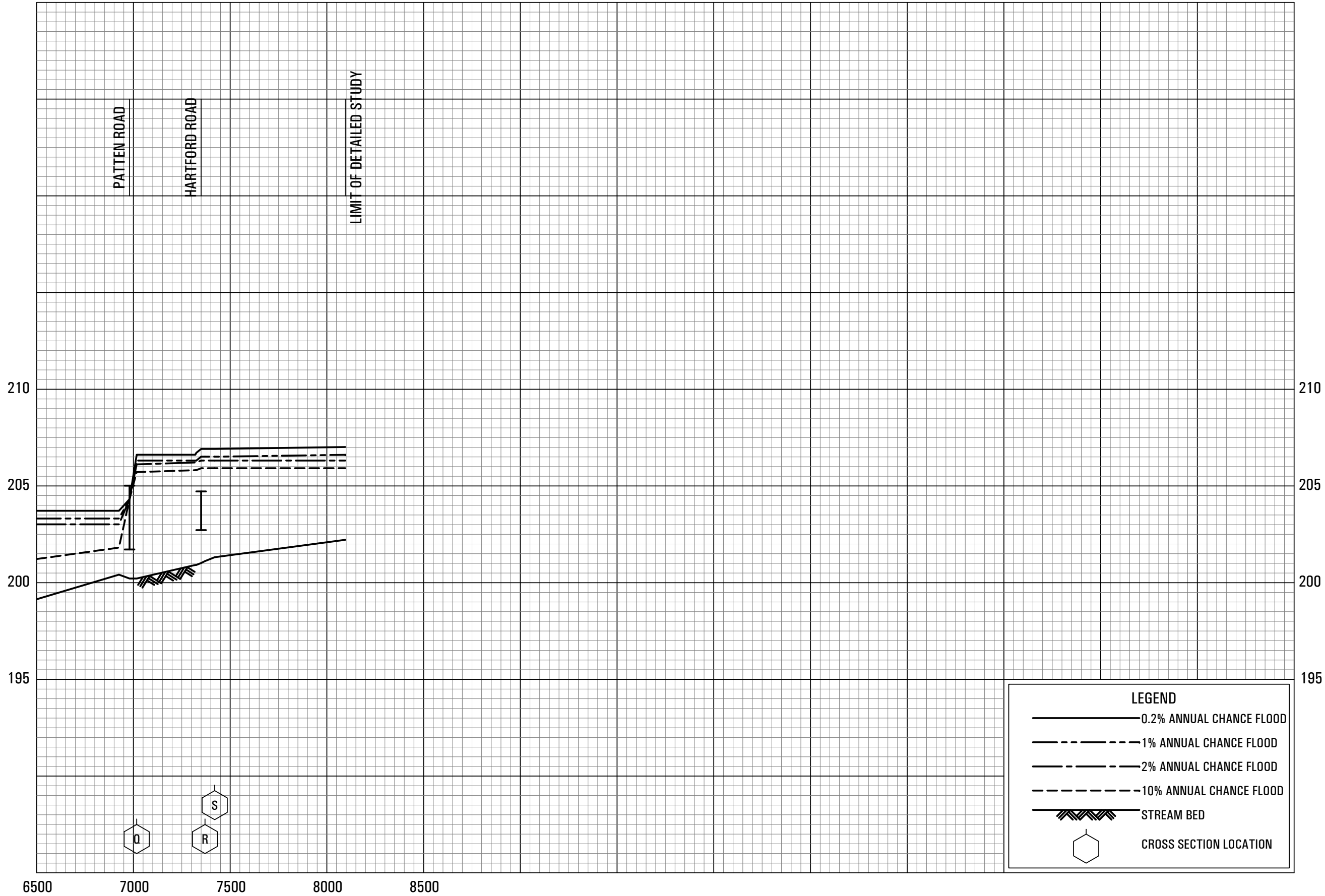
BOUTWELL BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

MIDDLESEX COUNTY, MA

(ALL JURISDICTIONS)

ELEVATION IN FEET (NAVD 88)



LEGEND

0.2% ANNUAL CHANCE FLOOD

1% ANNUAL CHANCE FLOOD

2% ANNUAL CHANCE FLOOD

10% ANNUAL CHANCE FLOOD

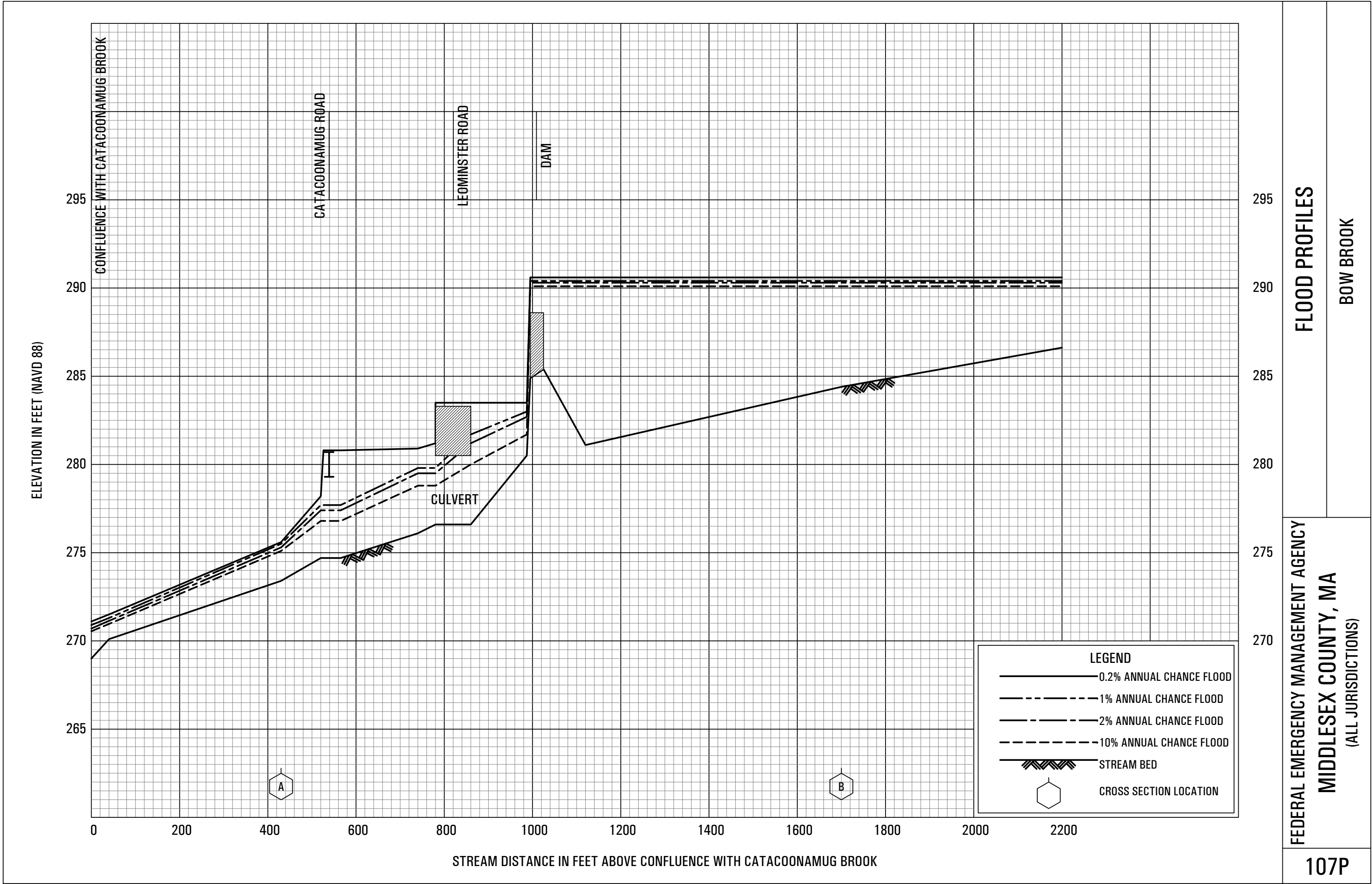
STREAM BED

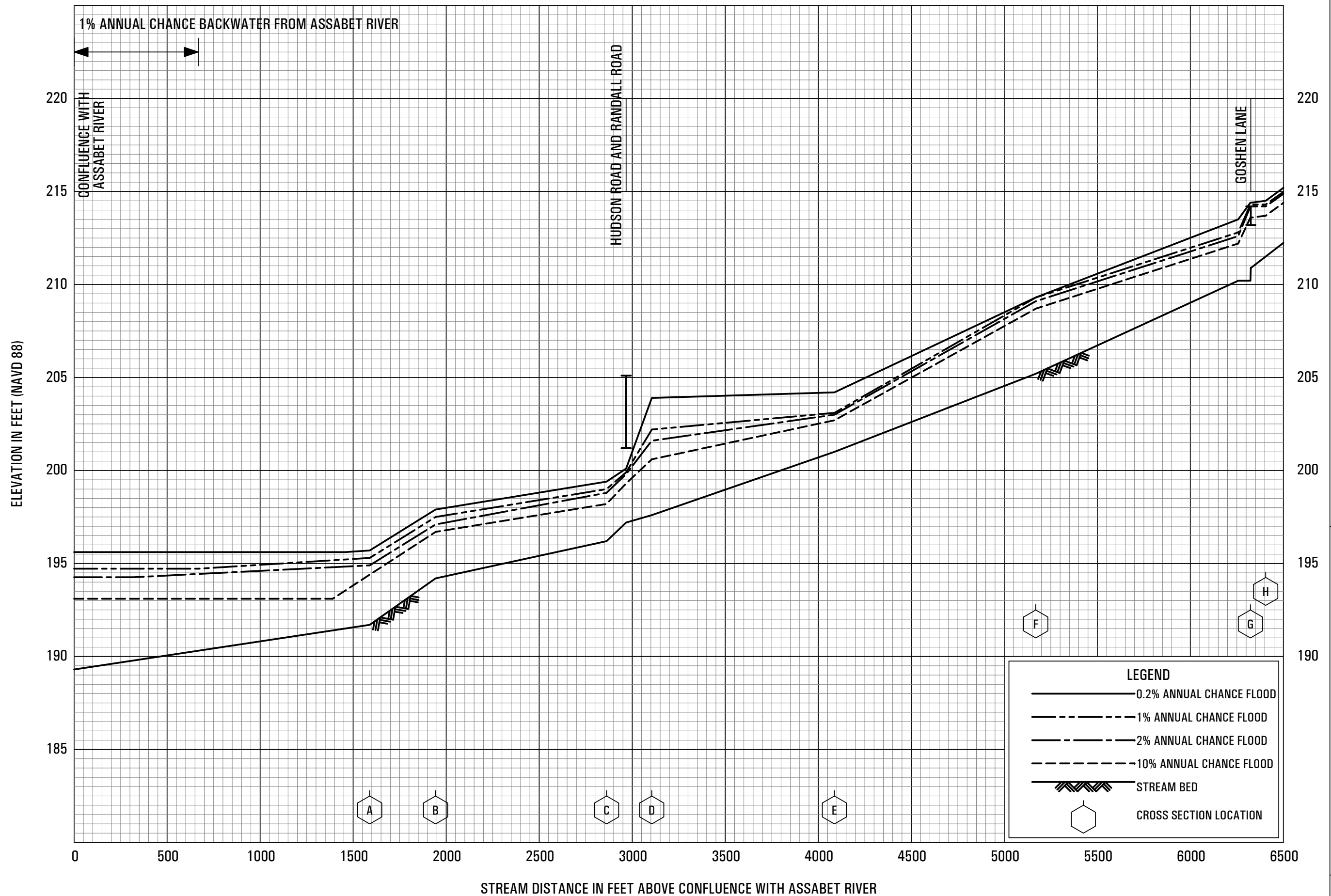
CROSS SECTION LOCATION

FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)

FLOOD PROFILES
BOUTWELL BROOK

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH STONY BROOK 2



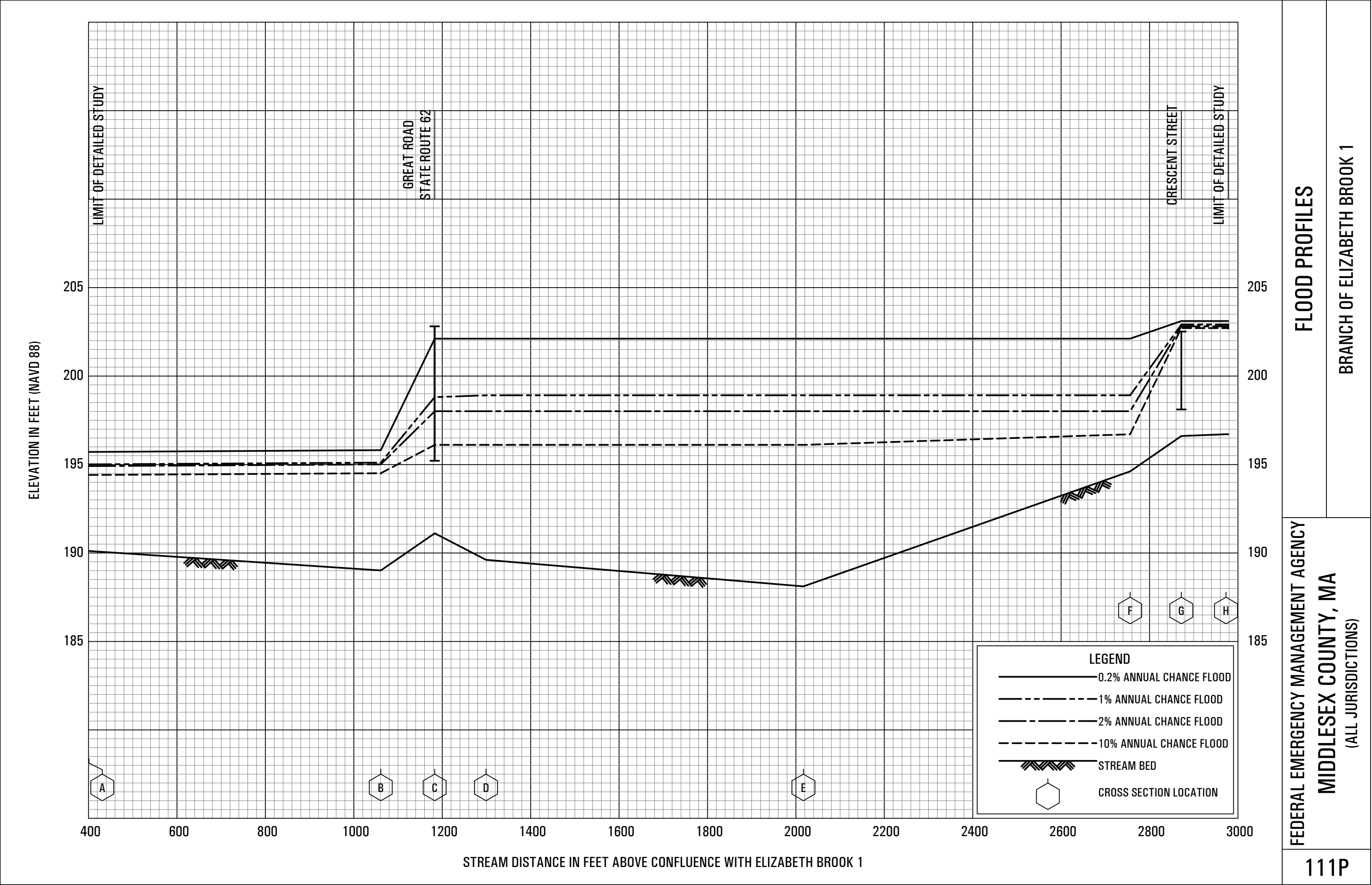


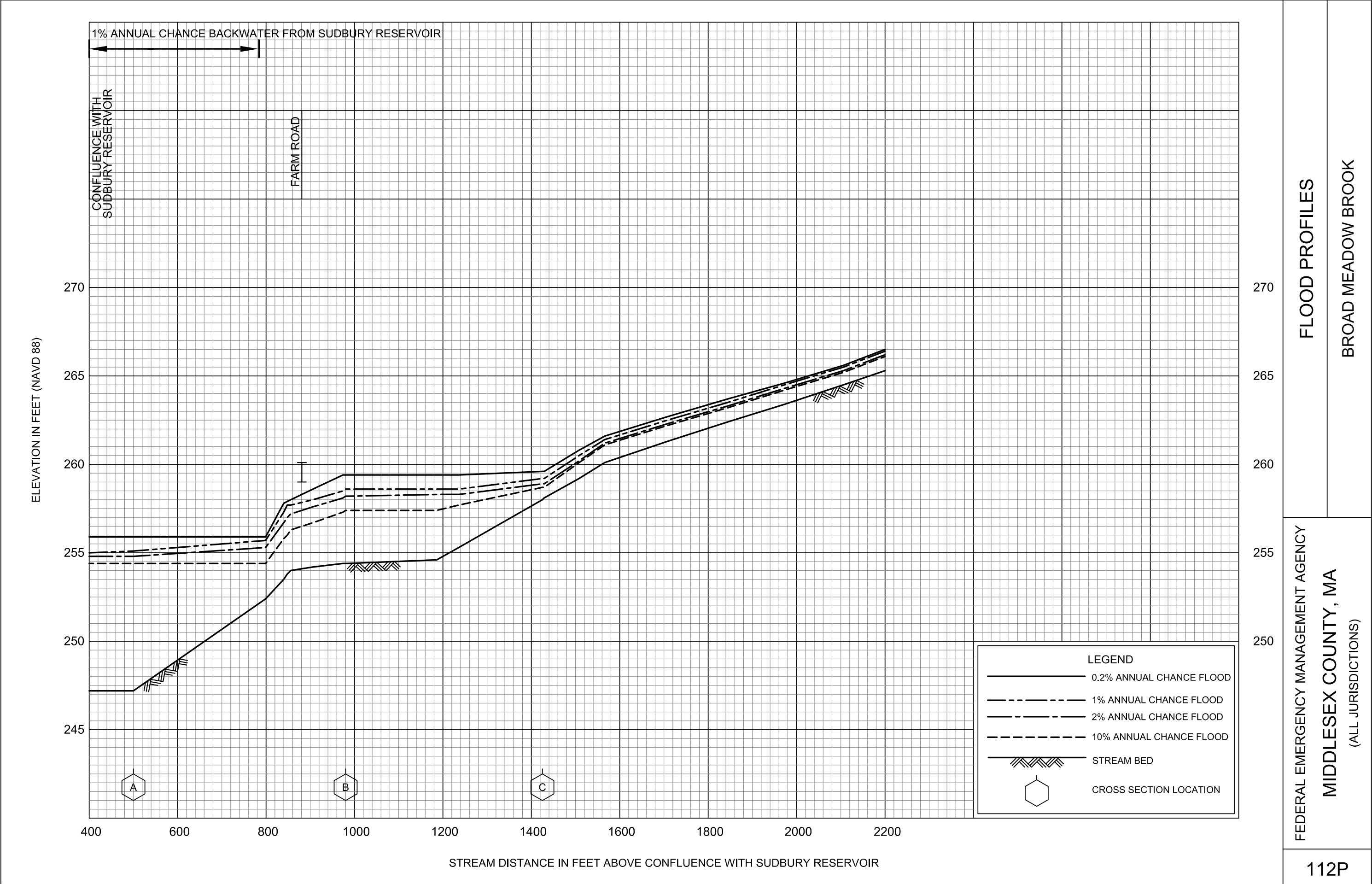
FLOOD PROFILES

BRANCH OF ASSABET RIVER

**FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

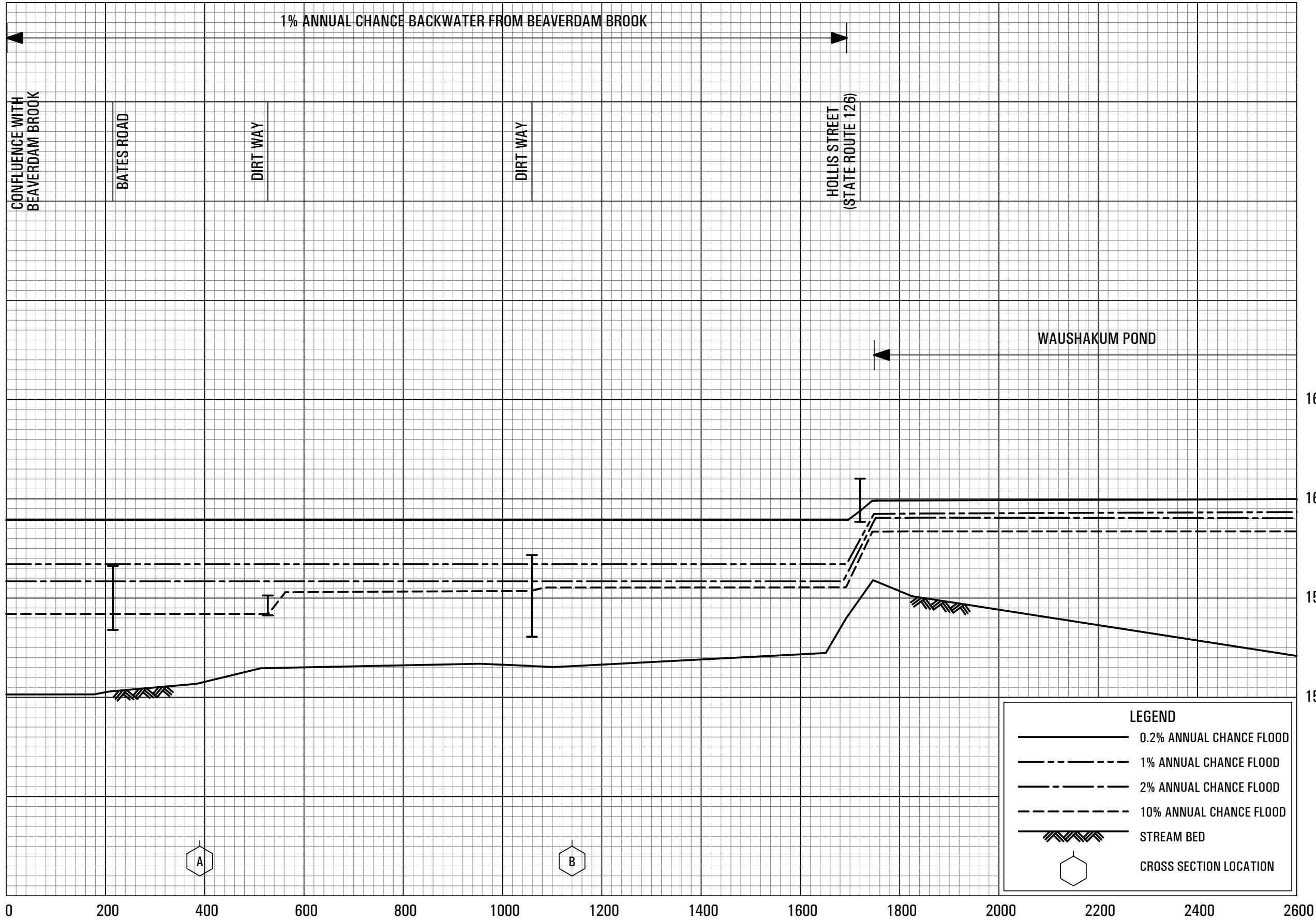
109P







ELEVATION IN FEET (NAVD 88)

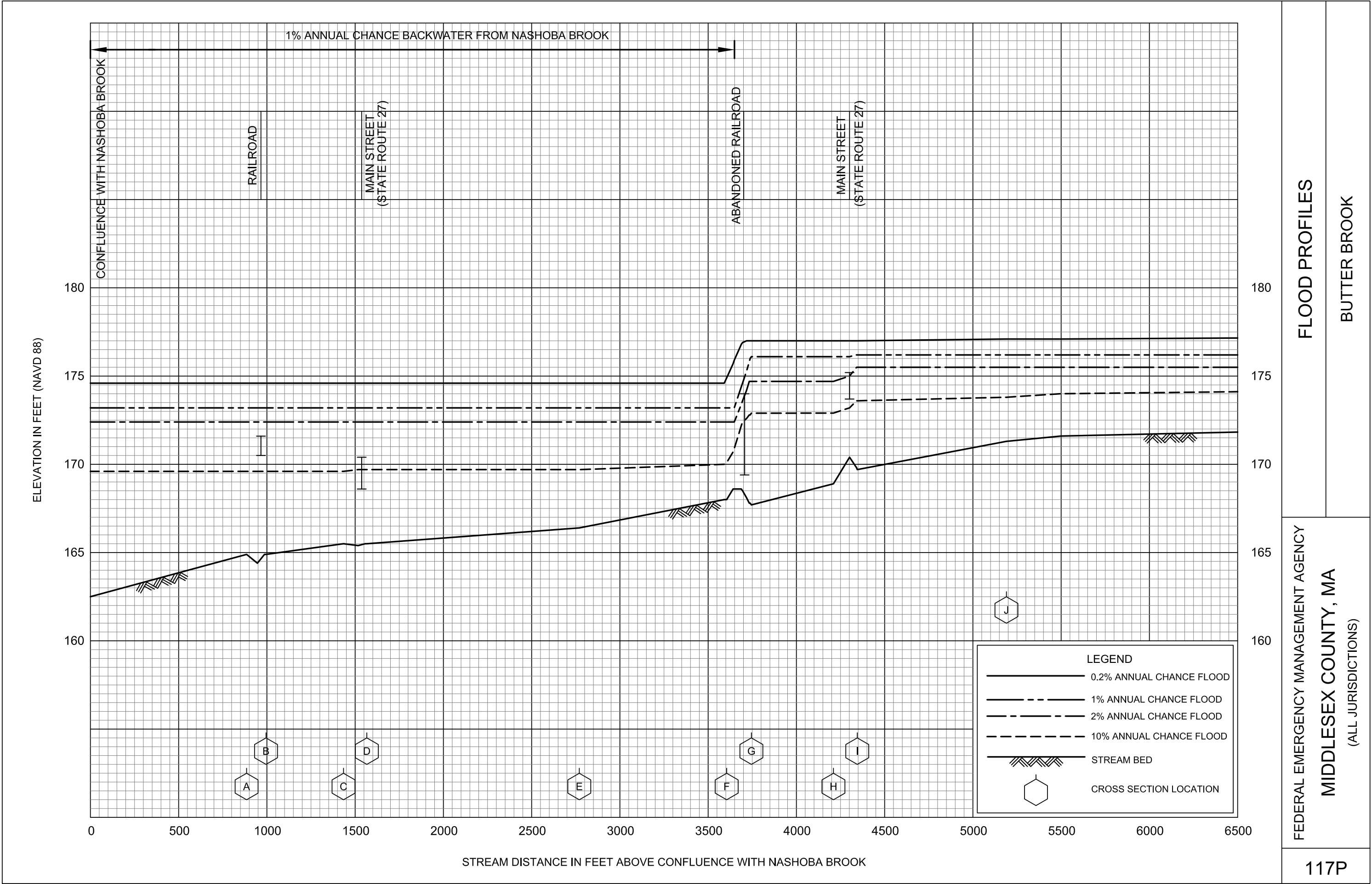


STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH BEAVERDAM BROOK

FLOOD PROFILES

FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)

BROOK FROM WAUSHAKUM POND



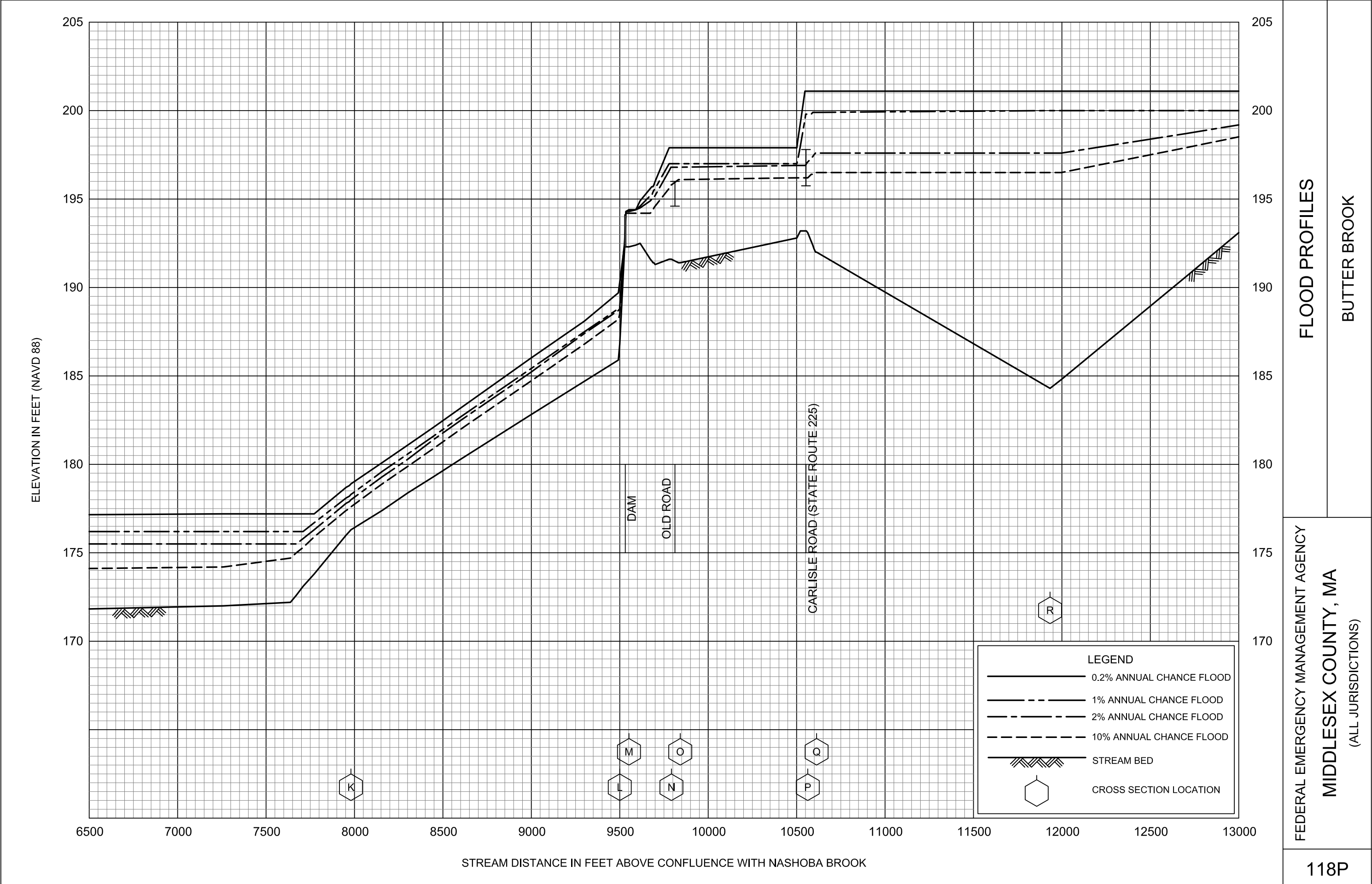
FLOOD PROFILES

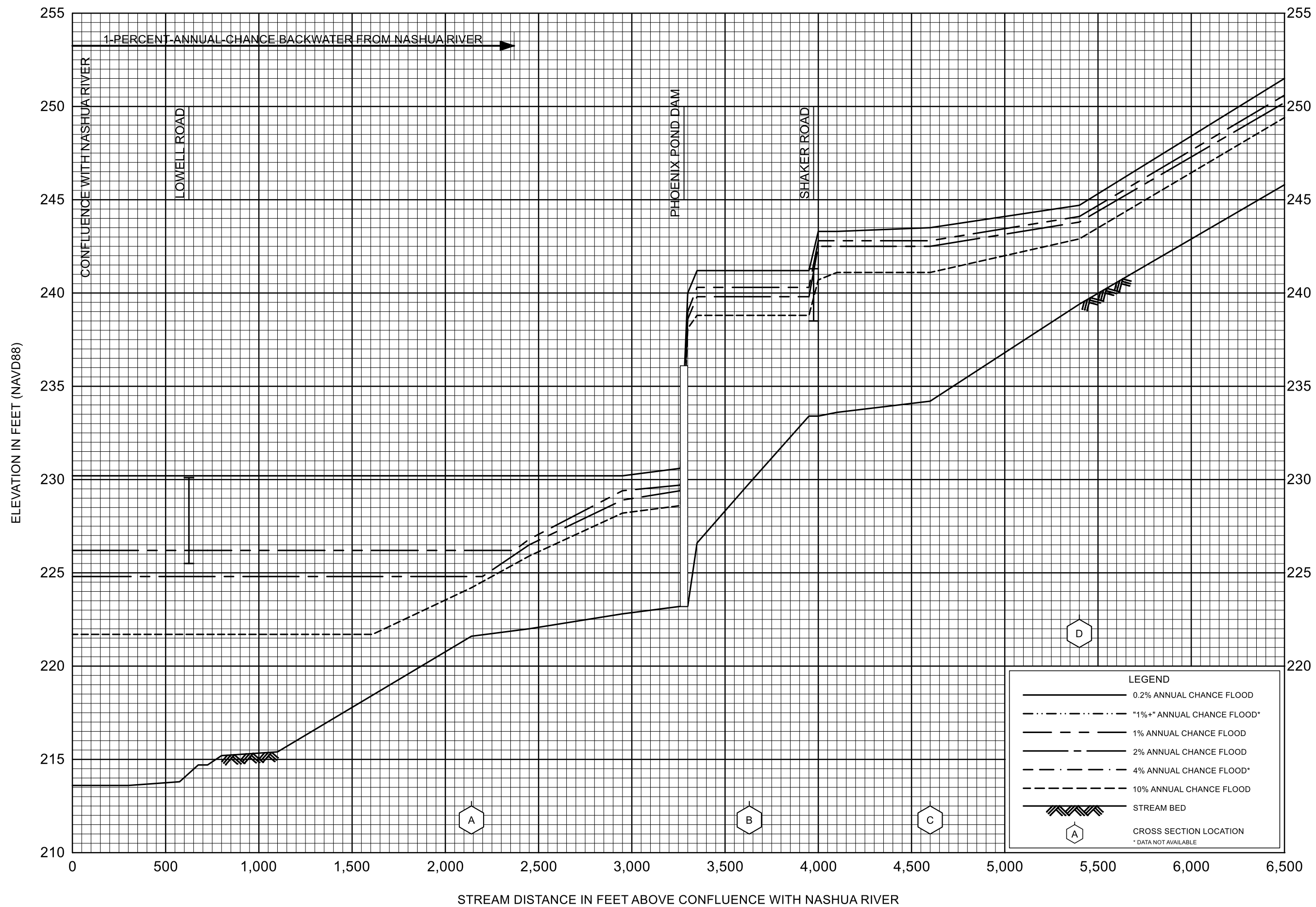
BUTTER BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

MIDDLESEX COUNTY, MA

(ALL JURISDICTIONS)





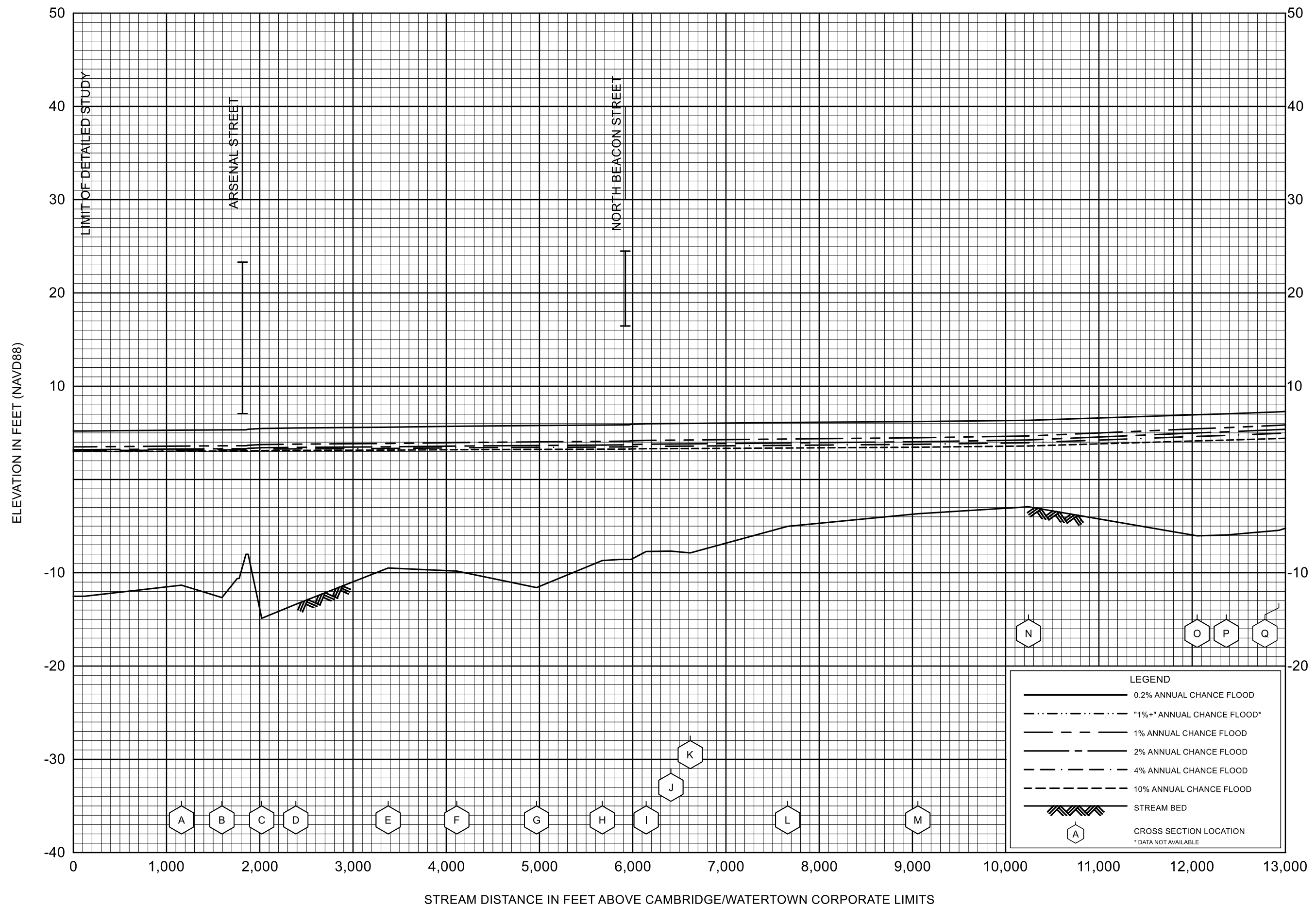
FLOOD PROFILES

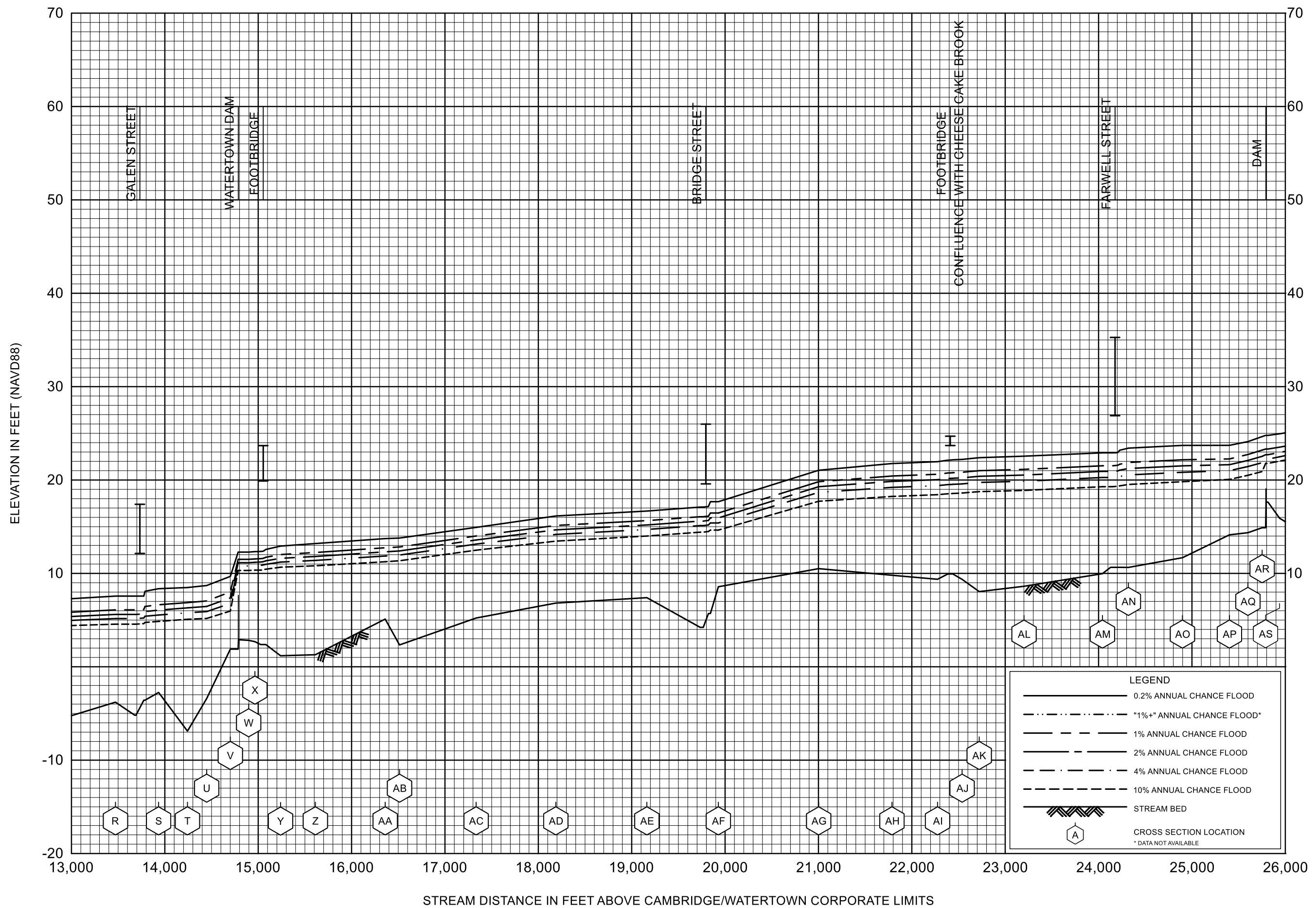
CATACONAMUG BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)

120P





STREAM DISTANCE IN FEET ABOVE CAMBRIDGE/WATERTOWN CORPORATE LIMITS

FLOOD PROFILES

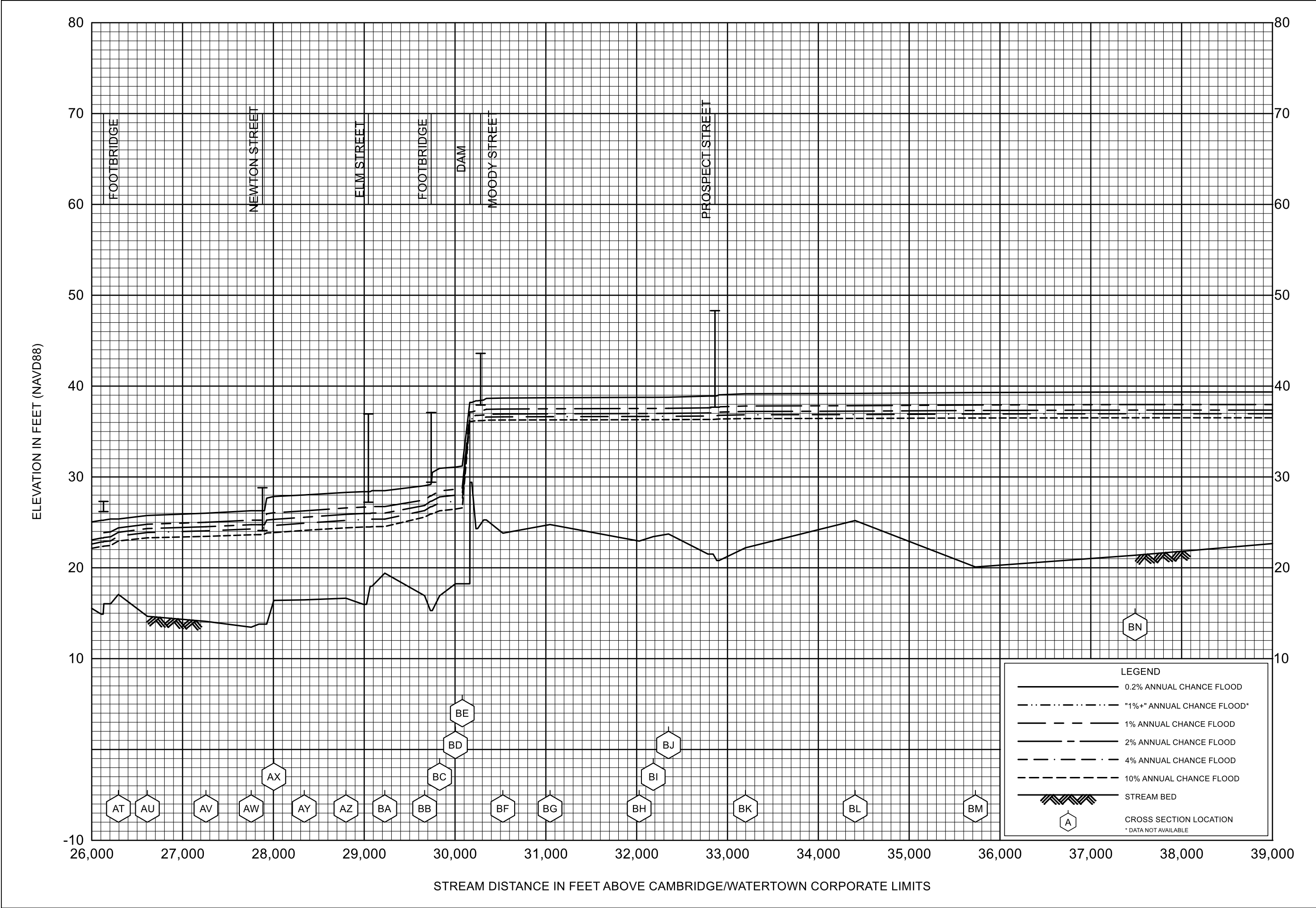
CHARLES RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

MIDDLESEX COUNTY, MA

(ALL JURISDICTIONS)

123P



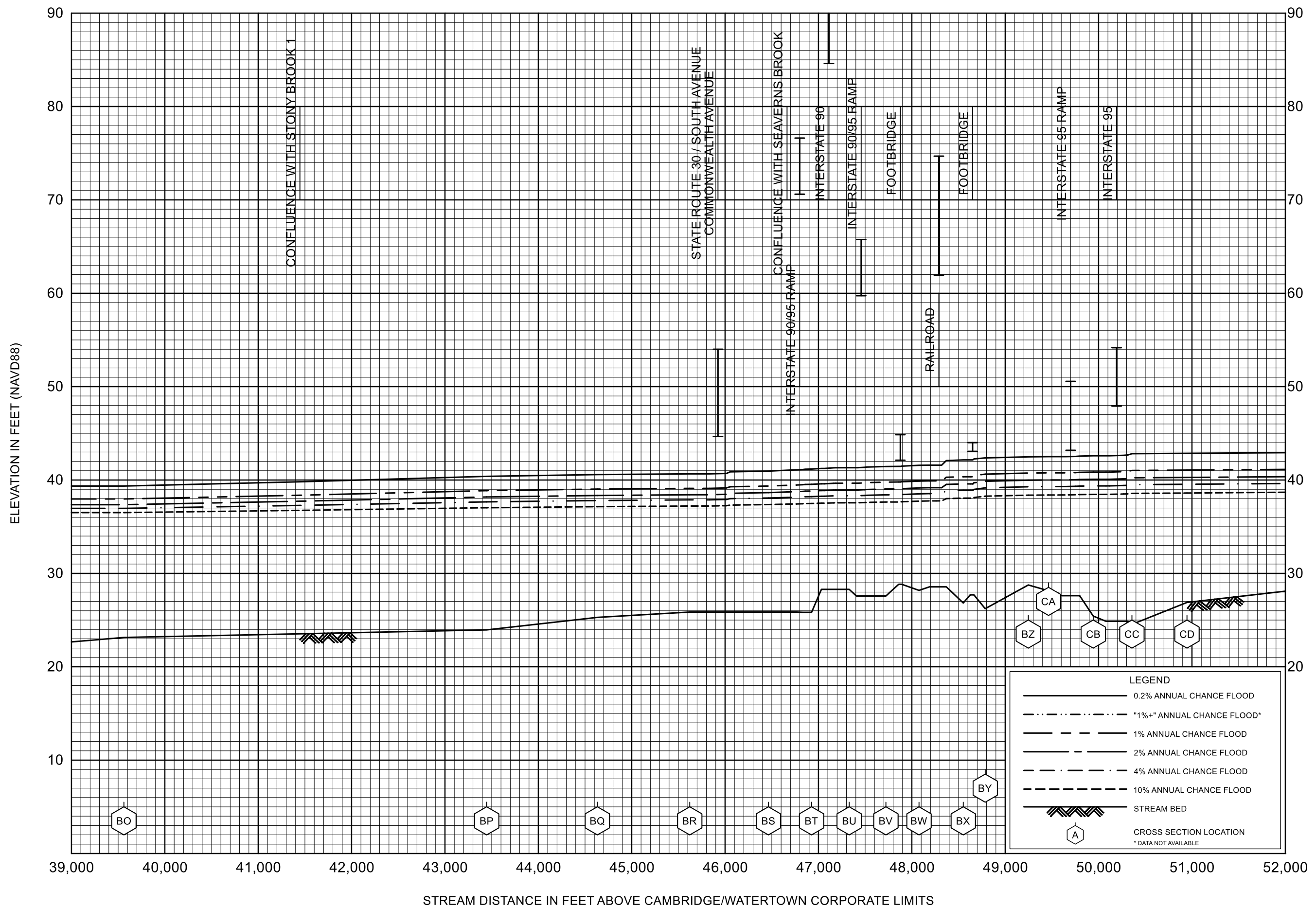
FLOOD PROFILES

CHARLES RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

MIDDLESEX COUNTY, MA

(ALL JURISDICTIONS)



STREAM DISTANCE IN FEET ABOVE CAMBRIDGE/WATERTOWN CORPORATE LIMITS

FLOOD PROFILES

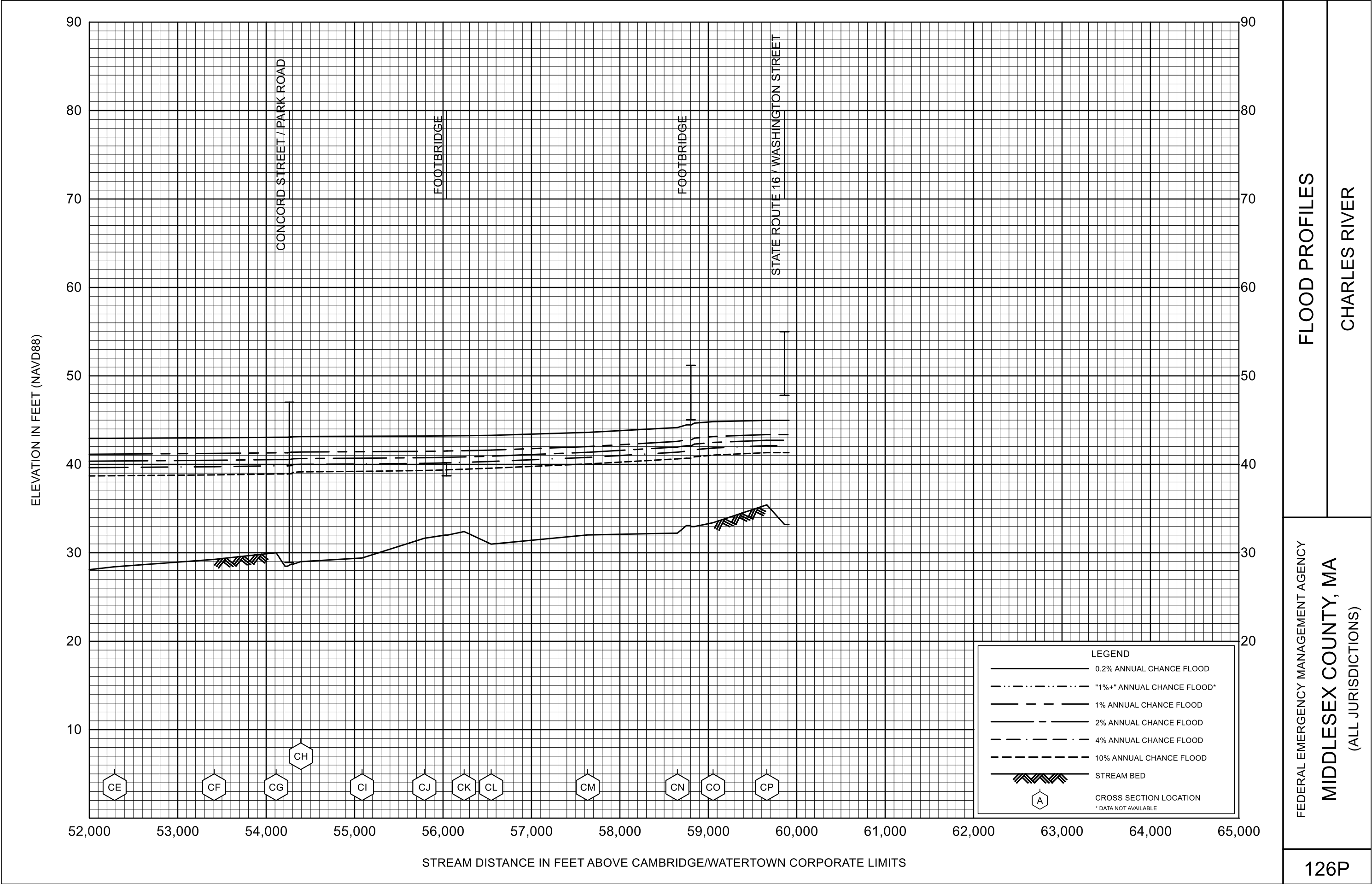
CHARLES RIVER

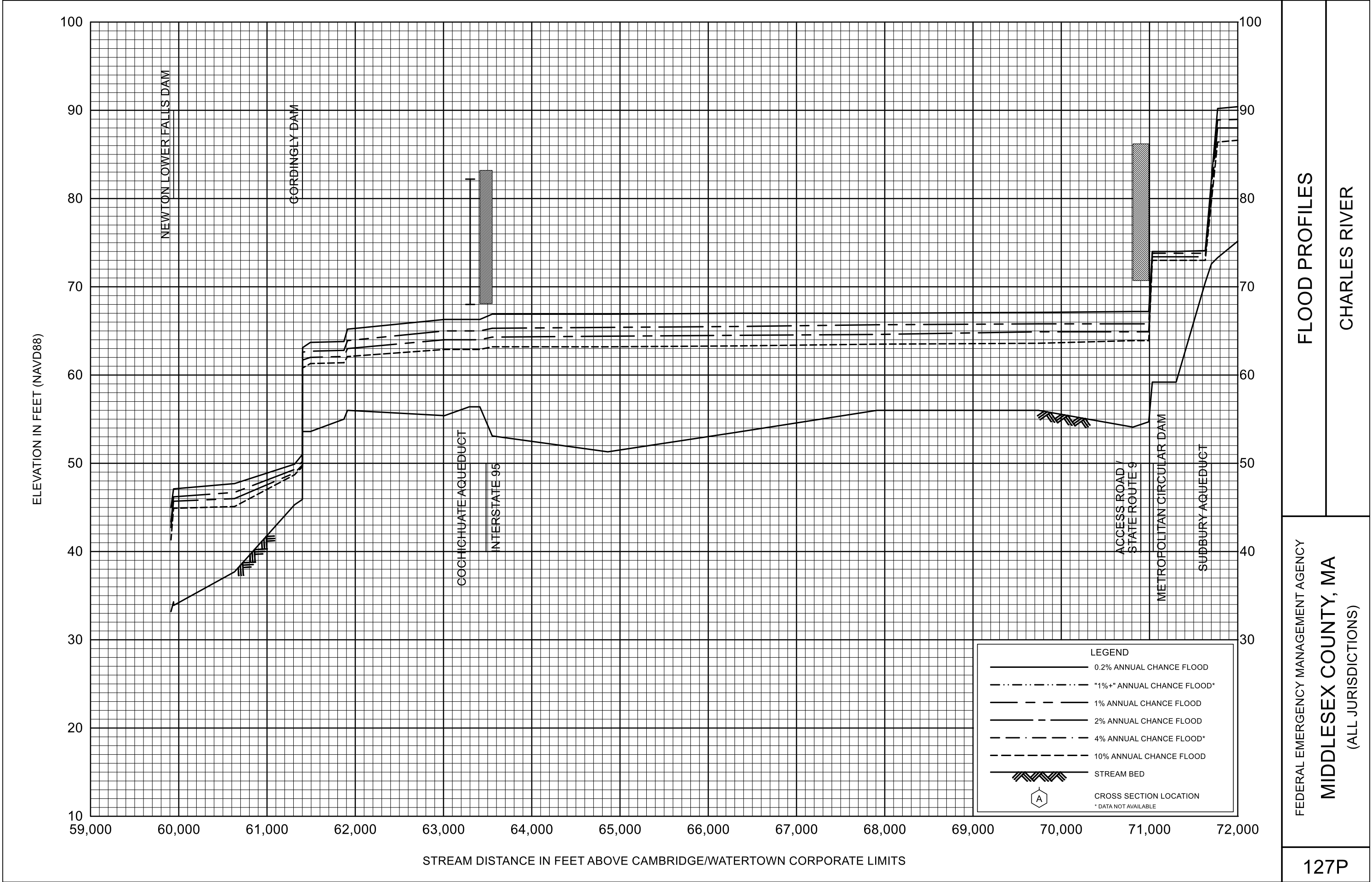
FEDERAL EMERGENCY MANAGEMENT AGENCY

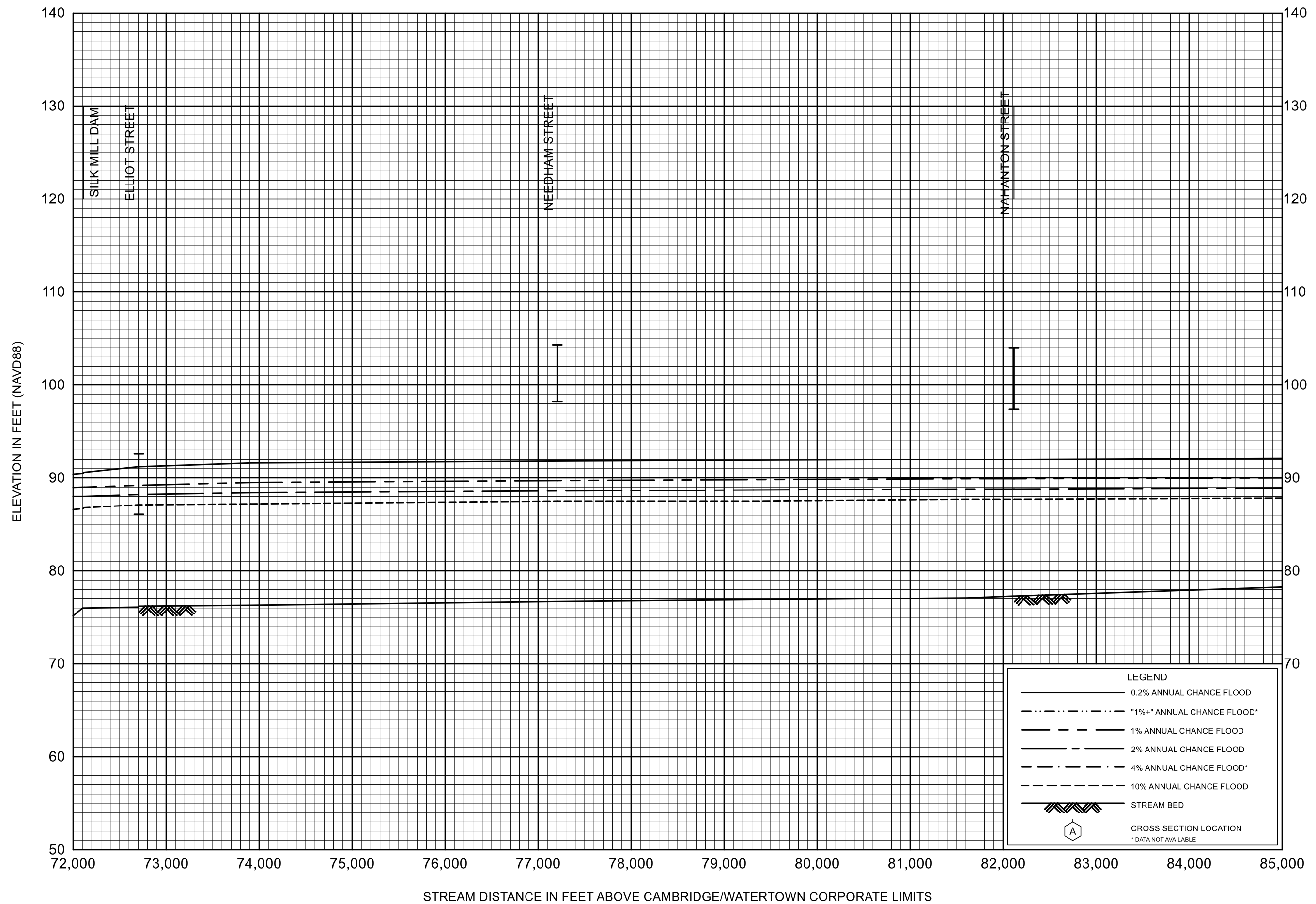
MIDDLESEX COUNTY, MA

(ALL JURISDICTIONS)

125P







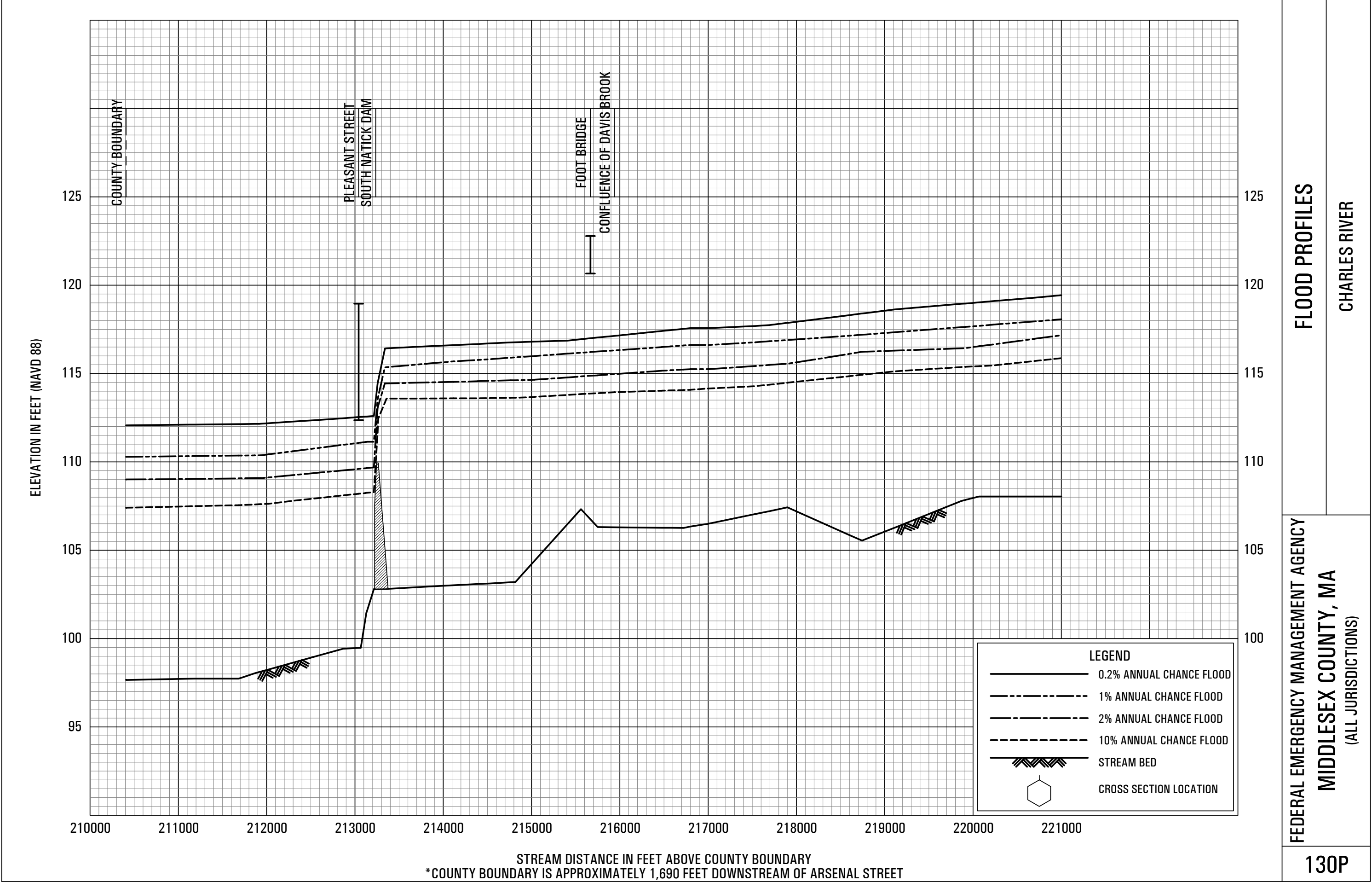
FLOOD PROFILES

CHARLES RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)

128P



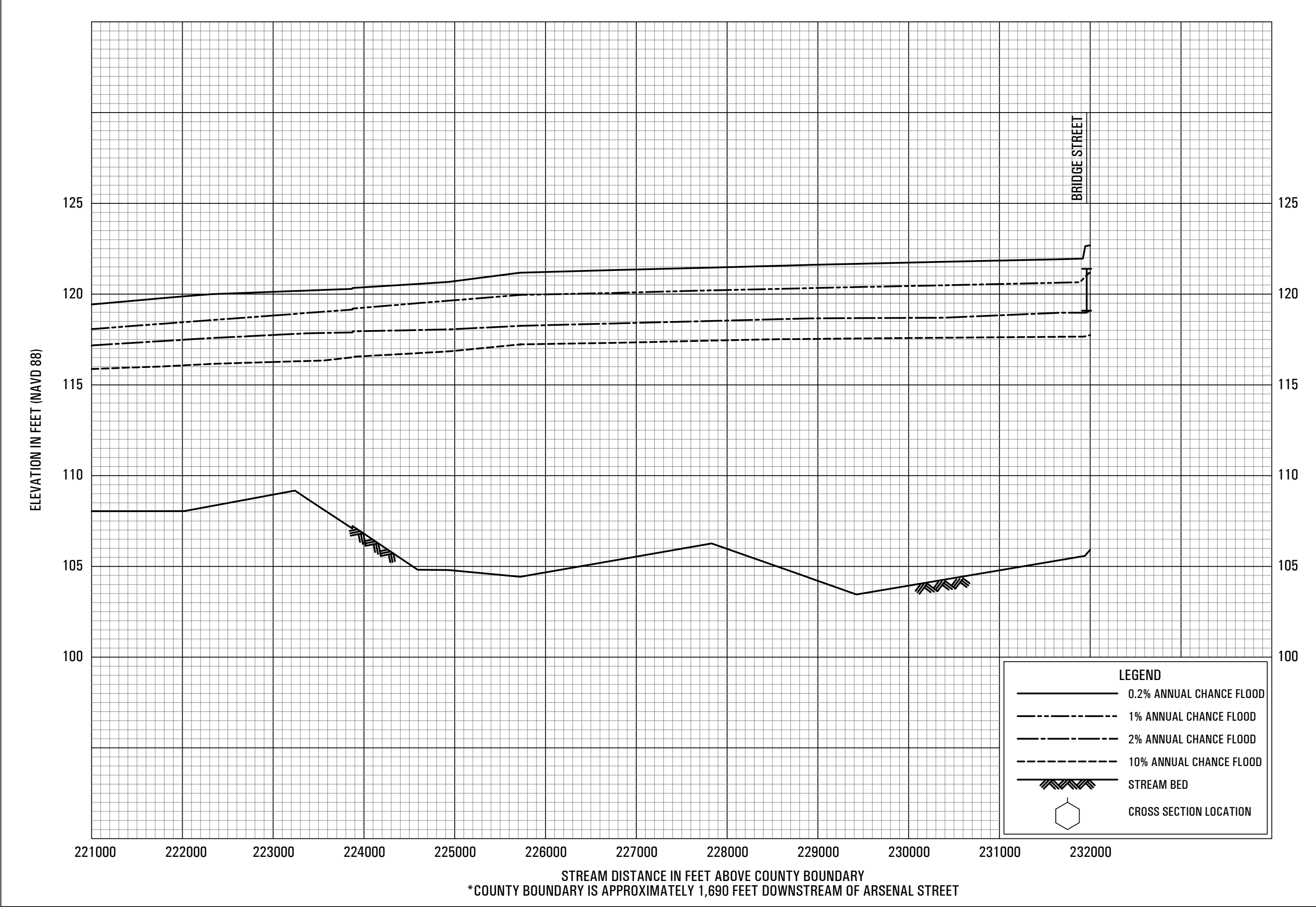
STREAM DISTANCE IN FEET ABOVE COUNTY BOUNDARY
*COUNTY BOUNDARY IS APPROXIMATELY 1,690 FEET DOWNSTREAM OF ARSENAL STREET

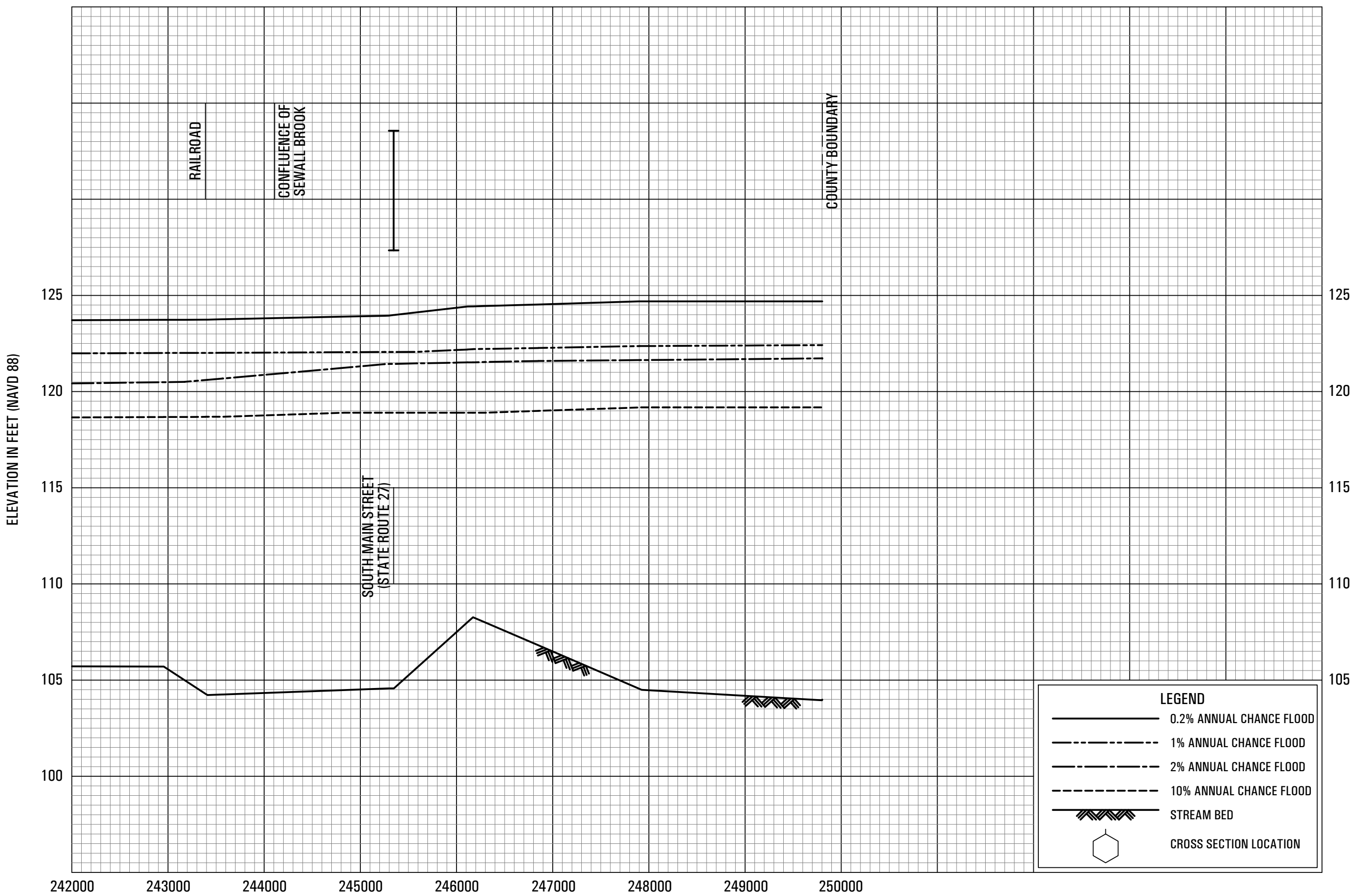
FLOOD PROFILES

CHARLES RIVER

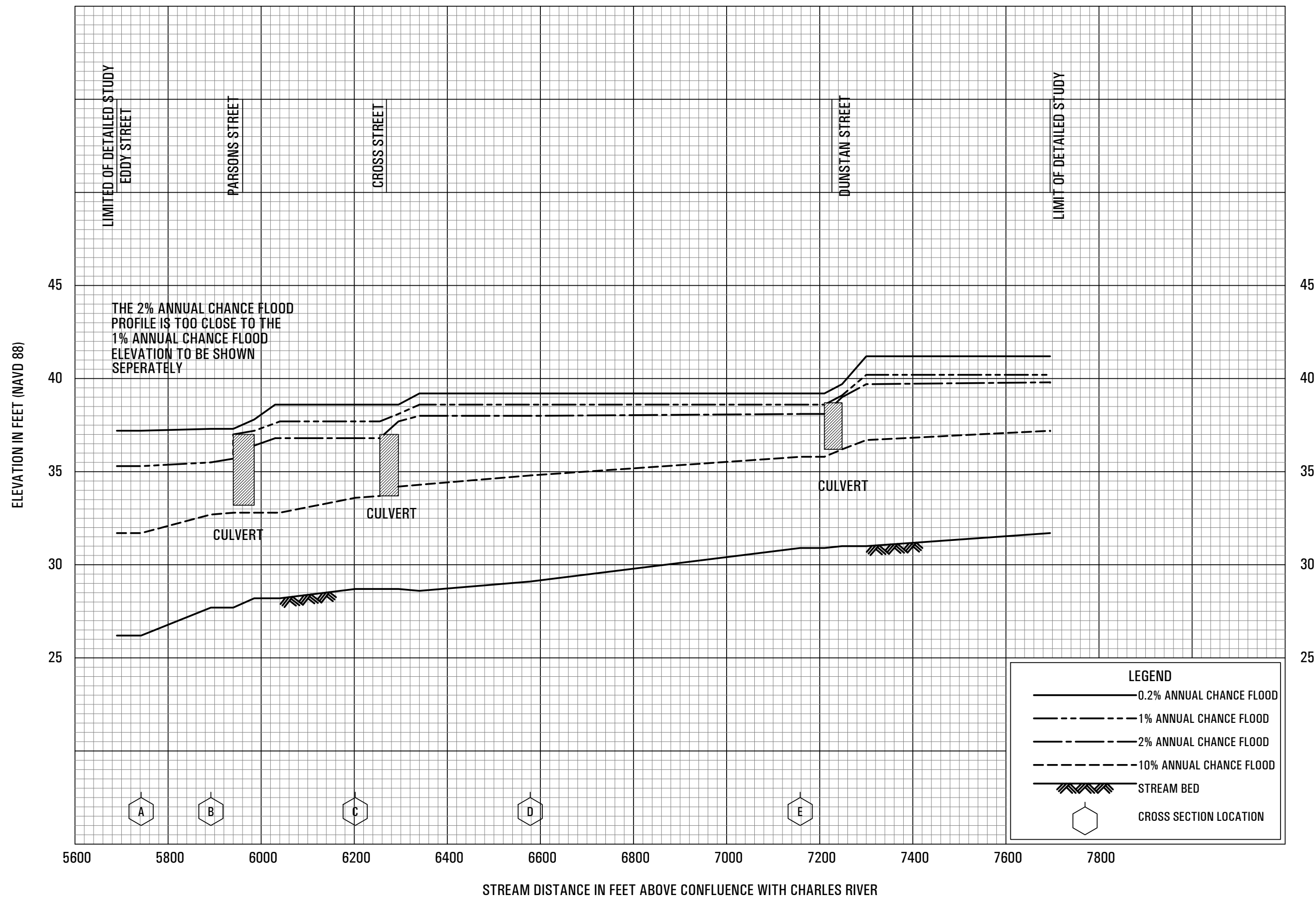
FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)

130P

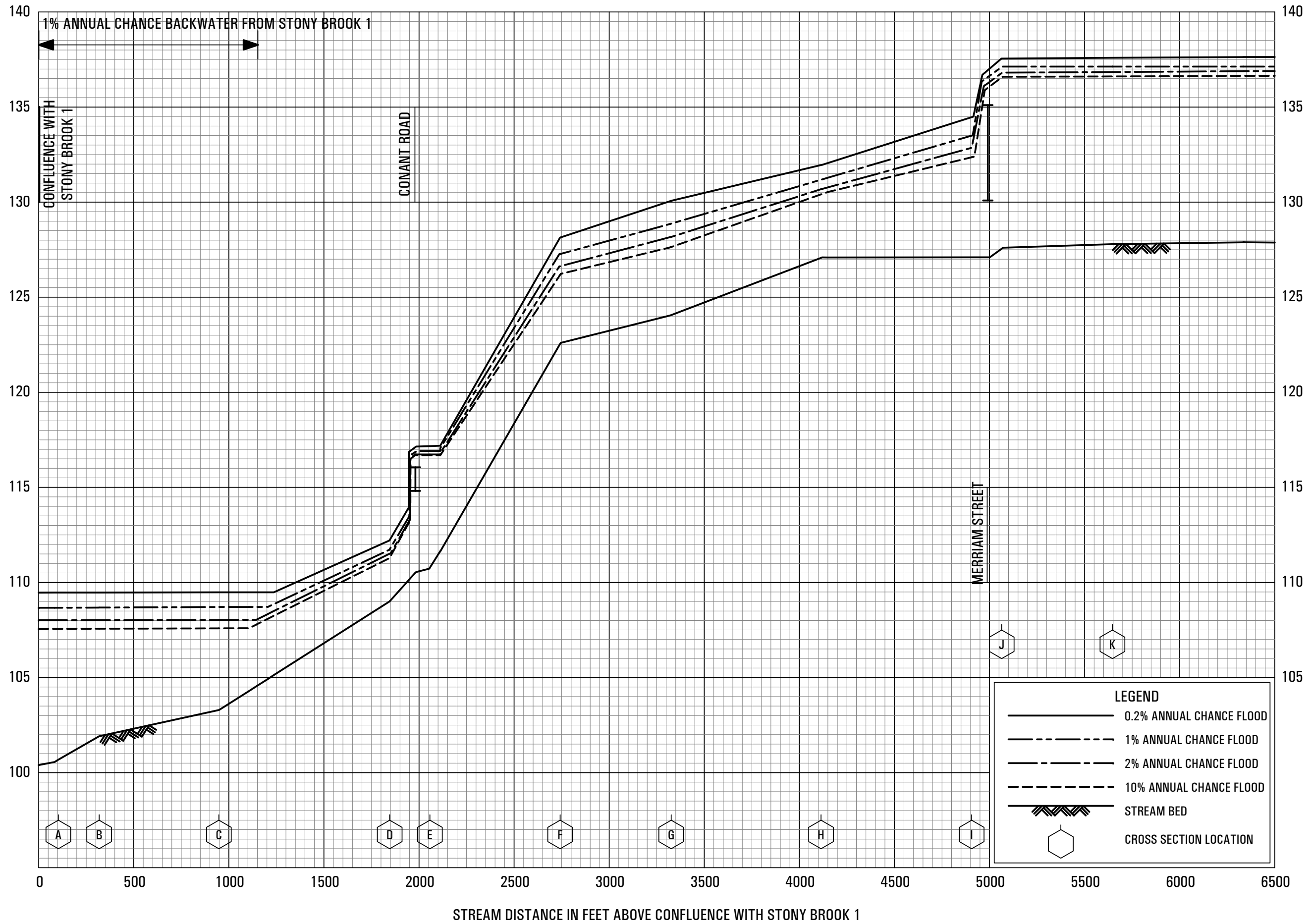




*COUNTY BOUNDARY IS APPROXIMATELY 1,690 FEET DOWNSTREAM OF ARSENAL STREET



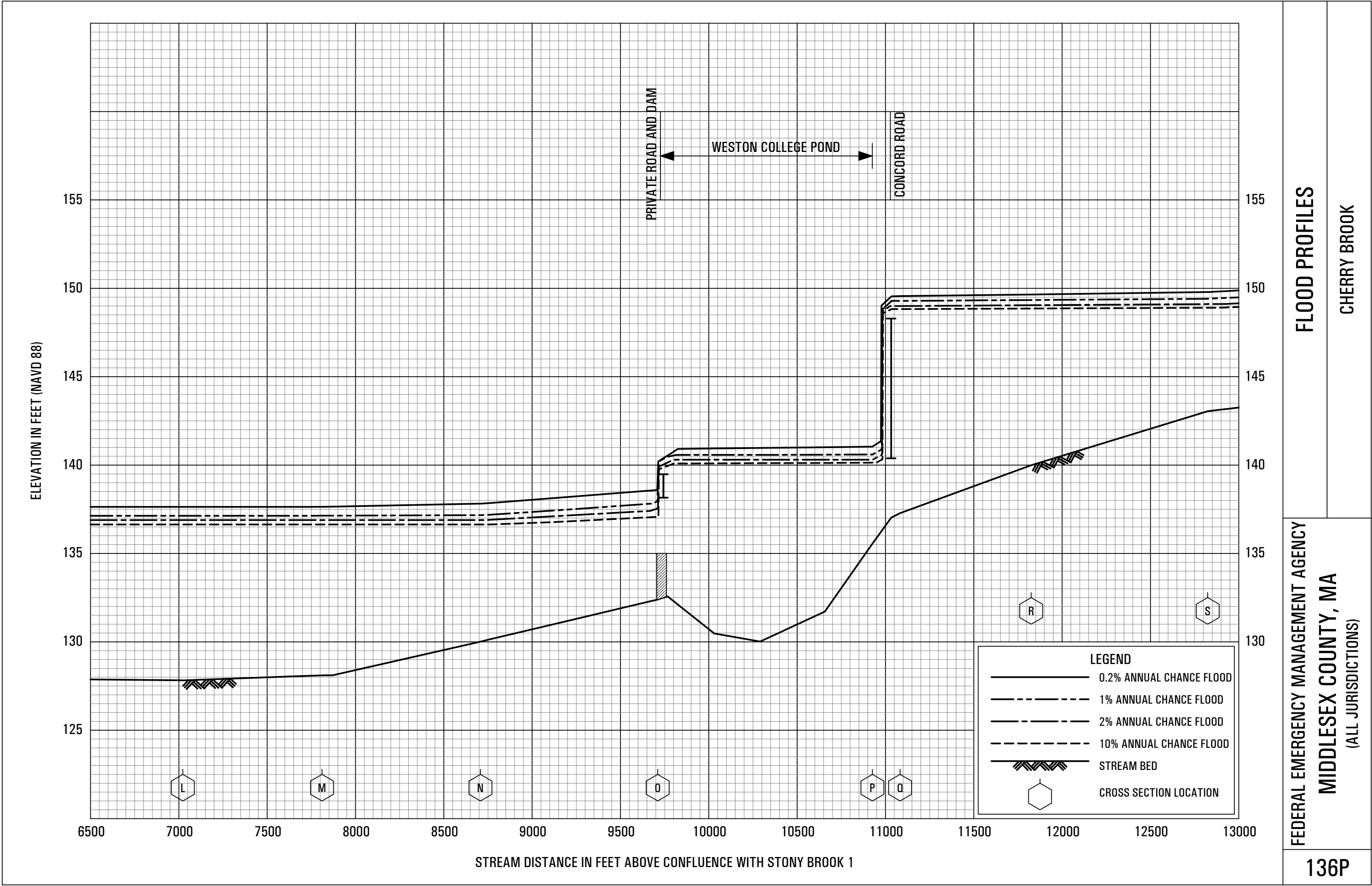
ELEVATION IN FEET (NAVD 88)



FLOOD PROFILES

CHERRY BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)

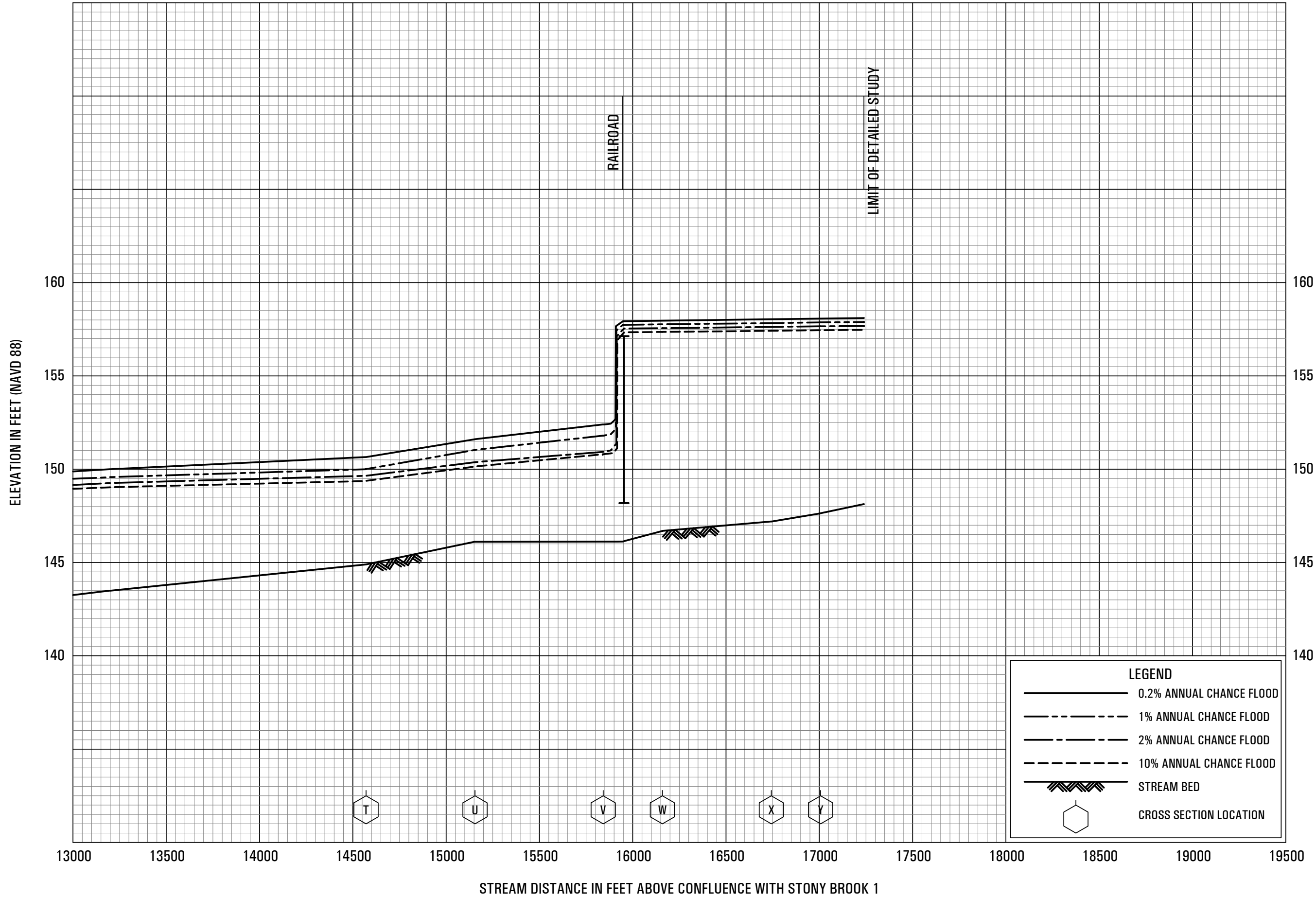


FLOOD PROFILES

CHERRY BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

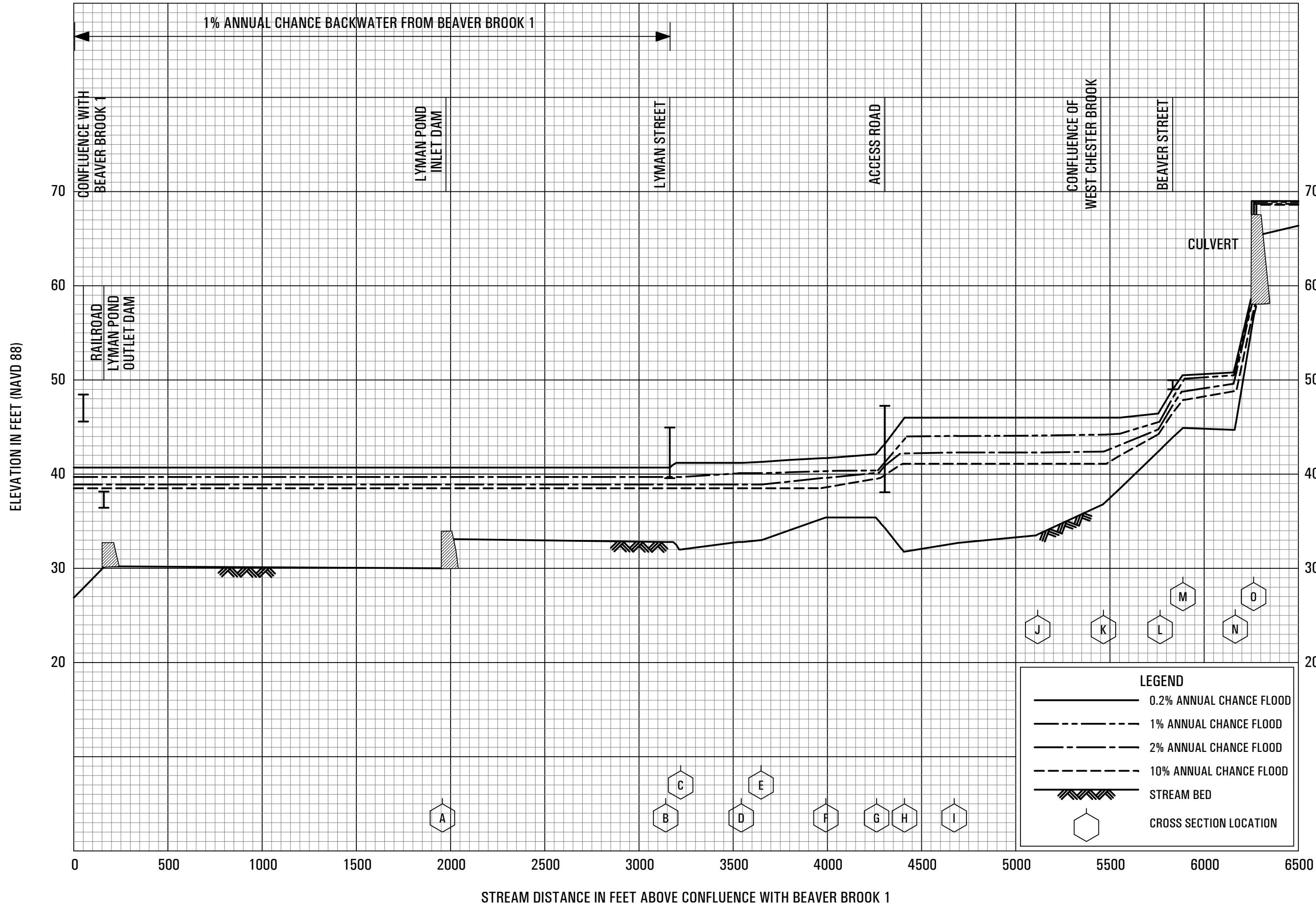
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)



FLOOD PROFILES

CHERRY BROOK

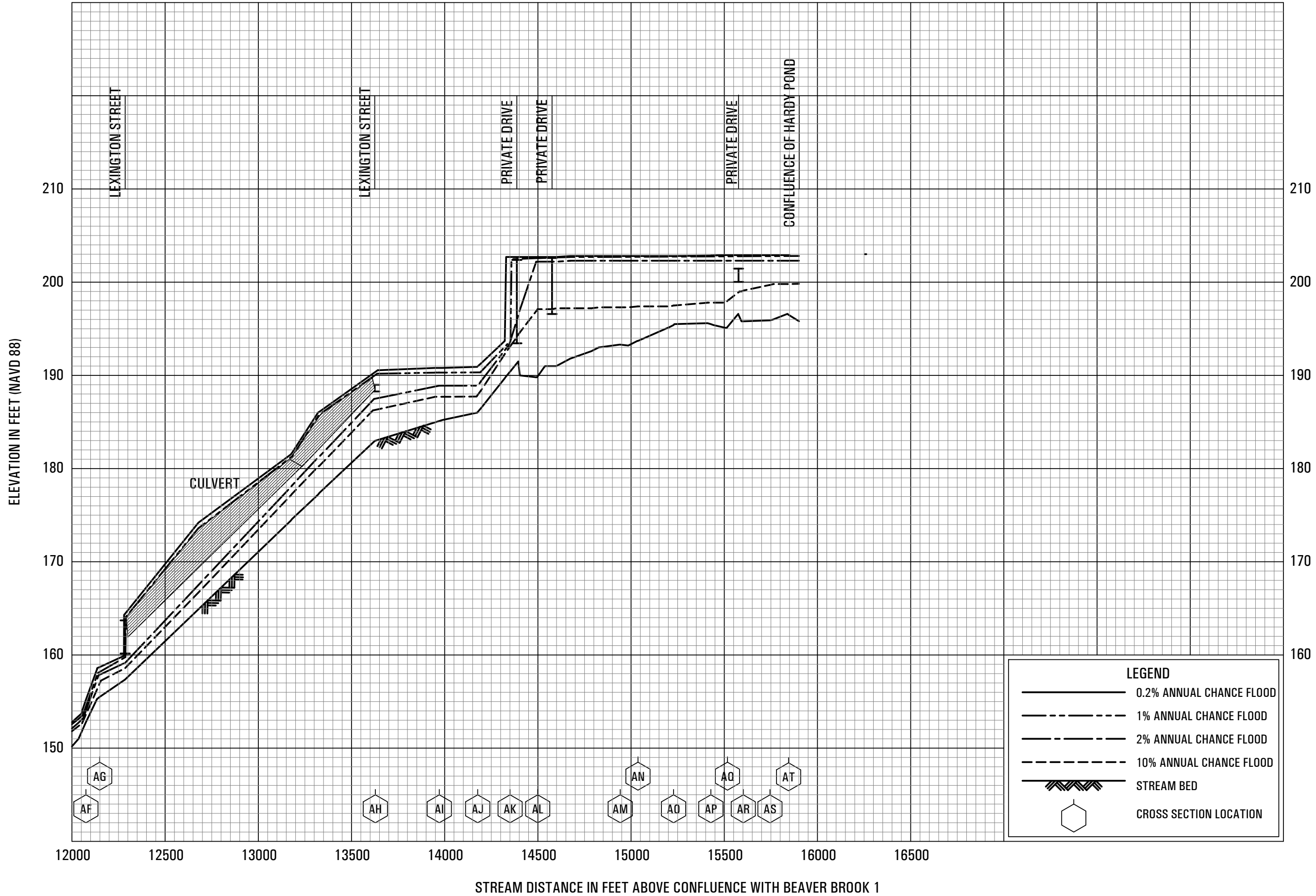
FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)



FLOOD PROFILES

CHESTER BROOK

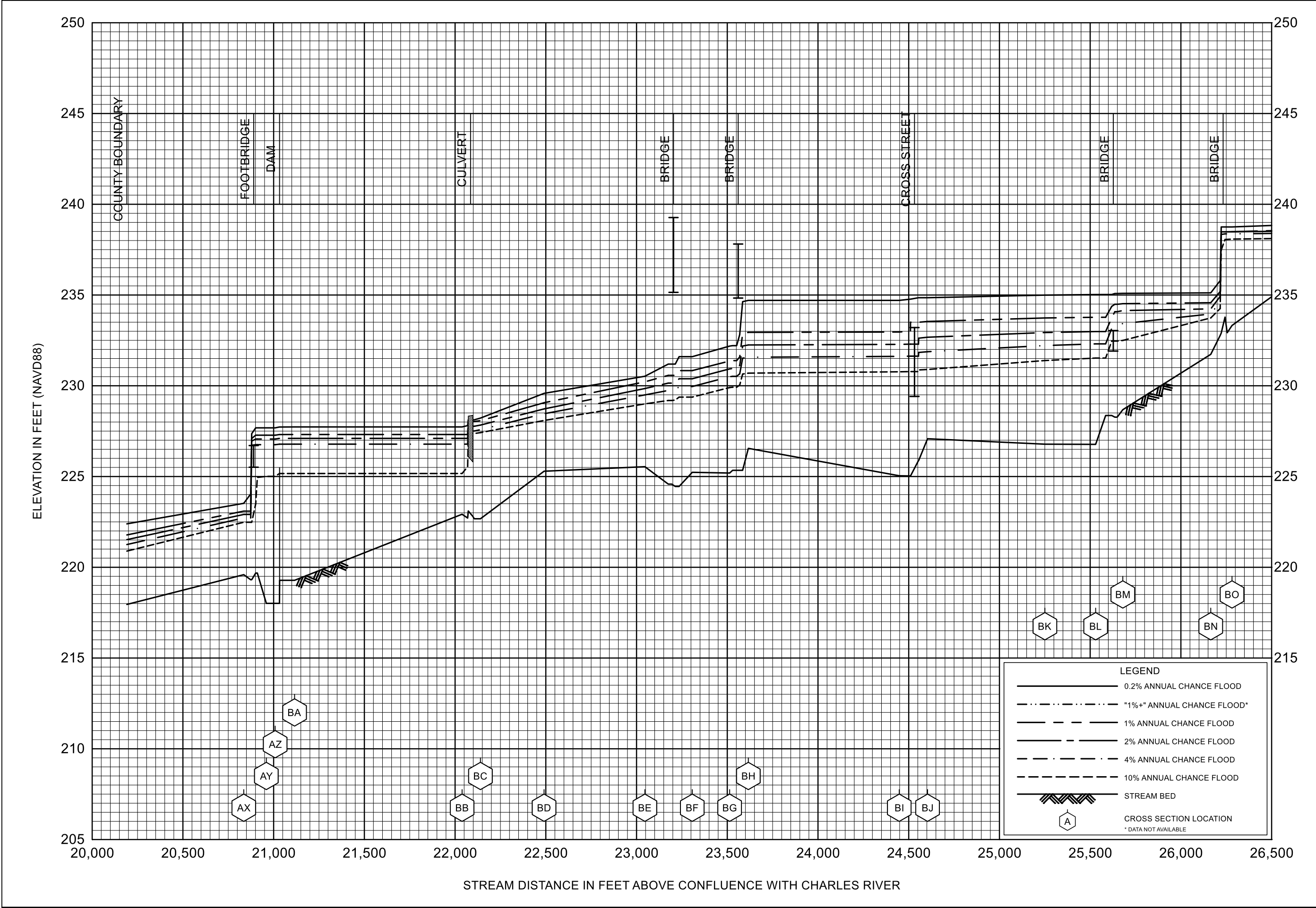
FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)



FLOOD PROFILES

CHESTER BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)



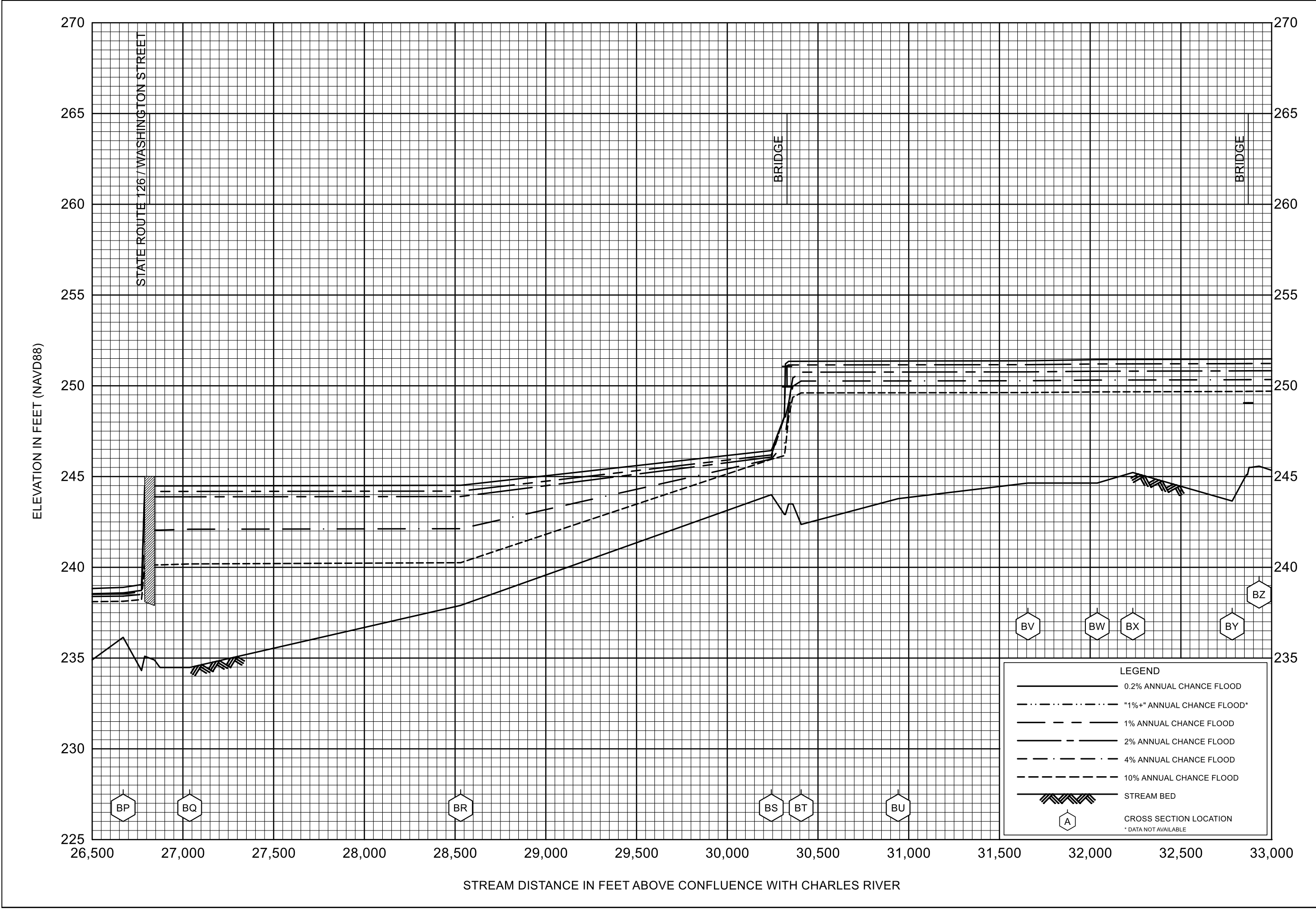
FLOOD PROFILES

CHICKEN BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

MIDDLESEX COUNTY, MA

(ALL JURISDICTIONS)



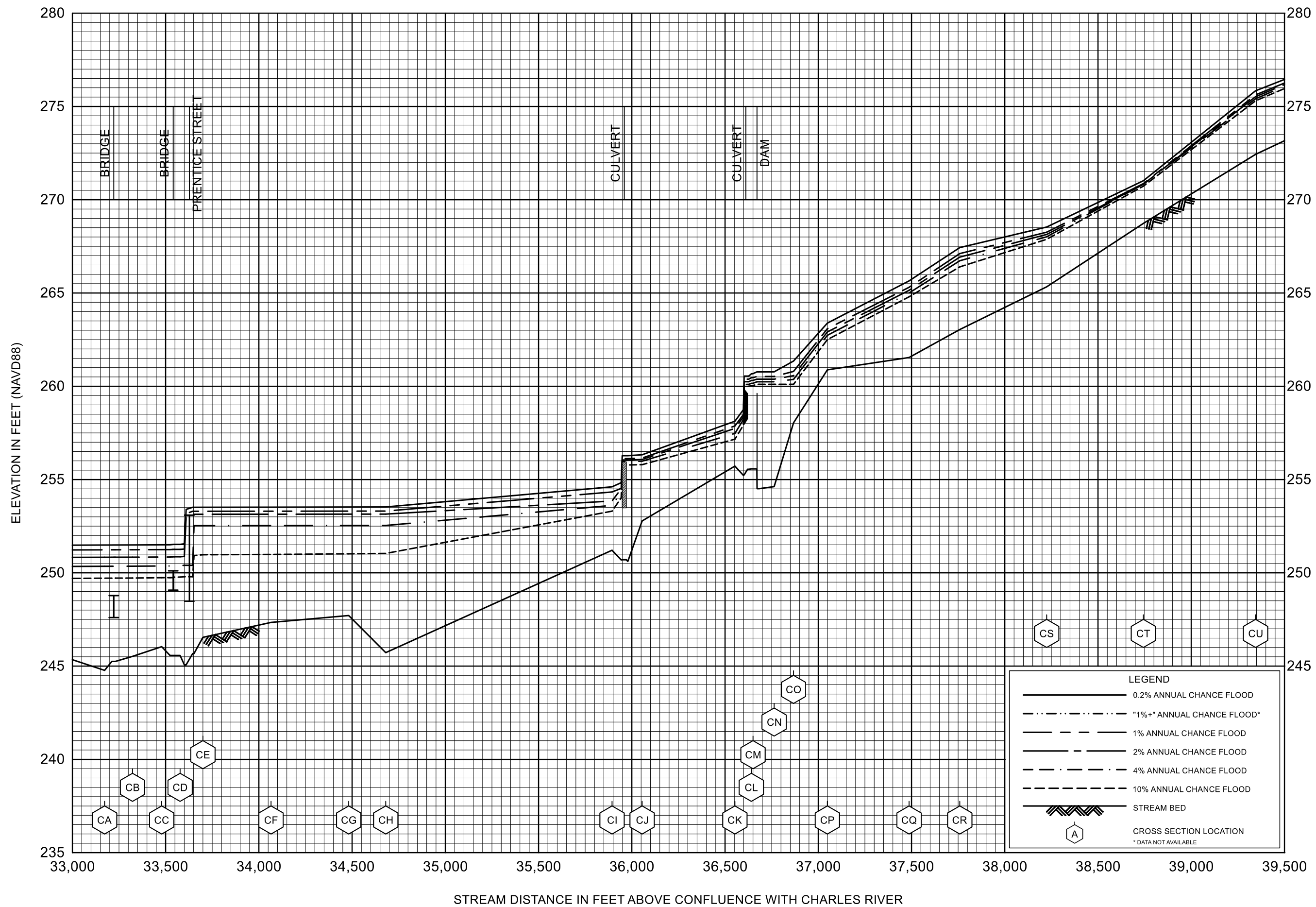
FLOOD PROFILES

CHICKEN BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

MIDDLESEX COUNTY, MA

(ALL JURISDICTIONS)



STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH CHARLES RIVER

FLOOD PROFILES

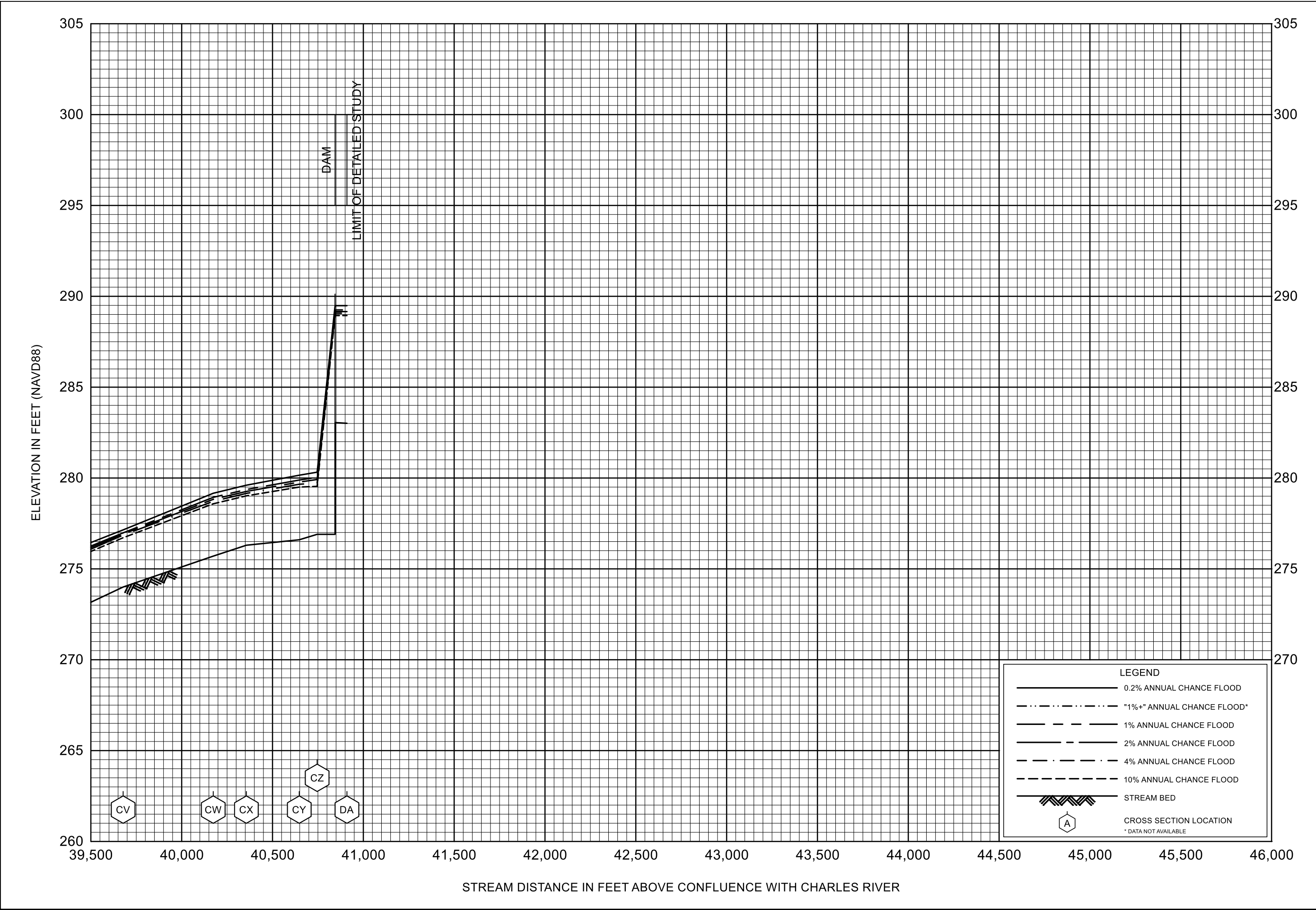
CHICKEN BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

MIDDLESEX COUNTY, MA

(ALL JURISDICTIONS)

144P



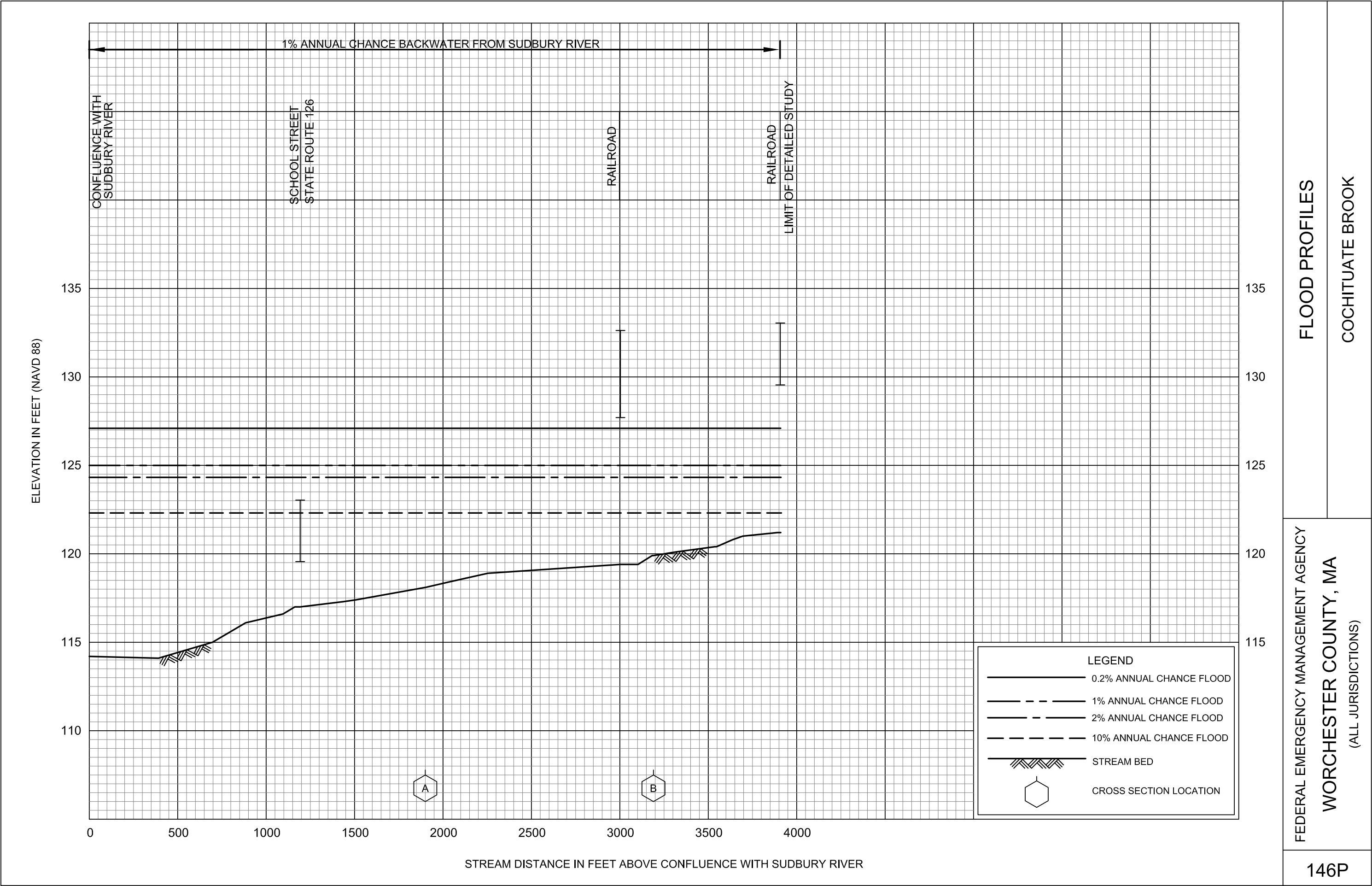
FLOOD PROFILES

CHICKEN BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

MIDDLESEX COUNTY, MA

(ALL JURISDICTIONS)



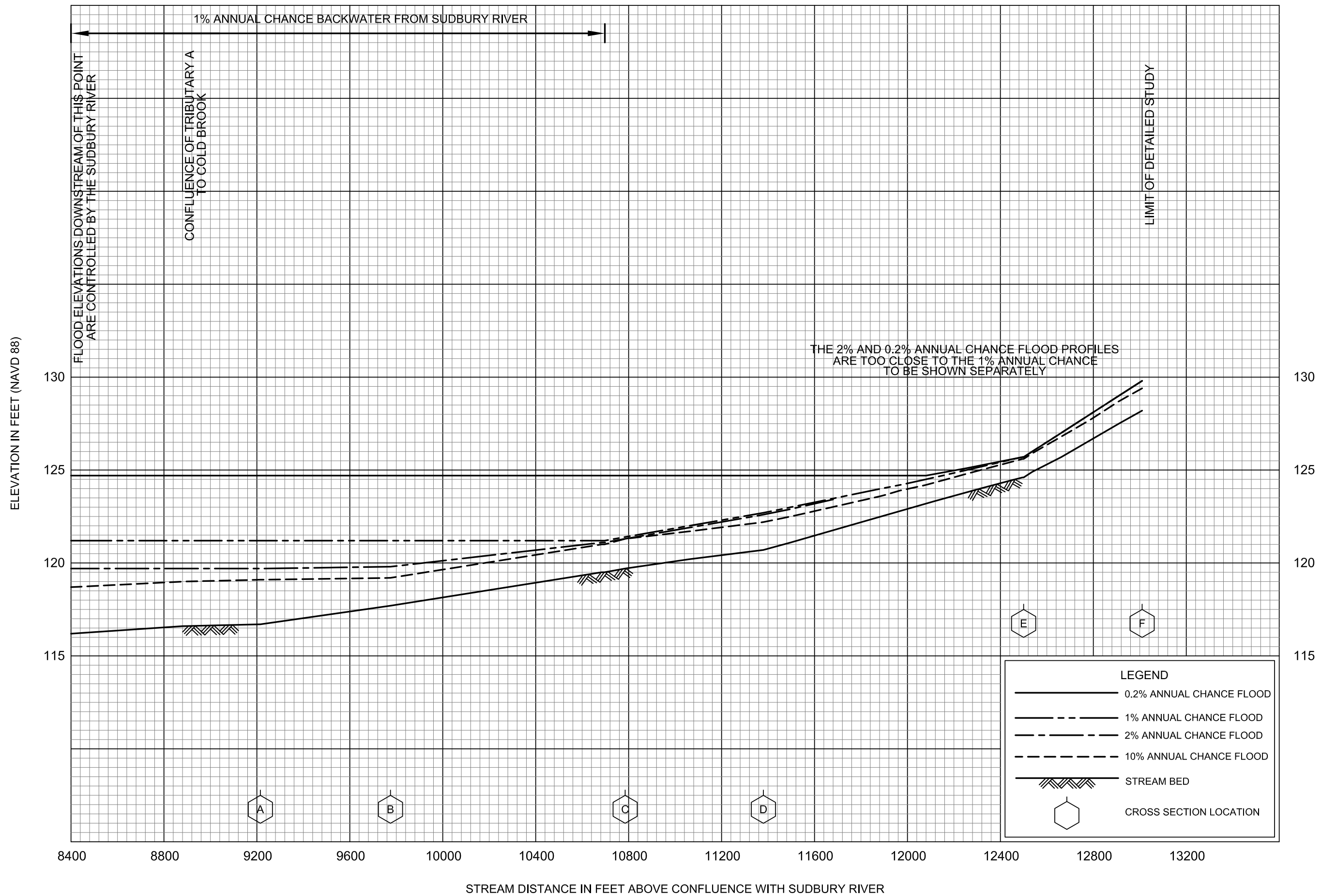
FLOOD PROFILES

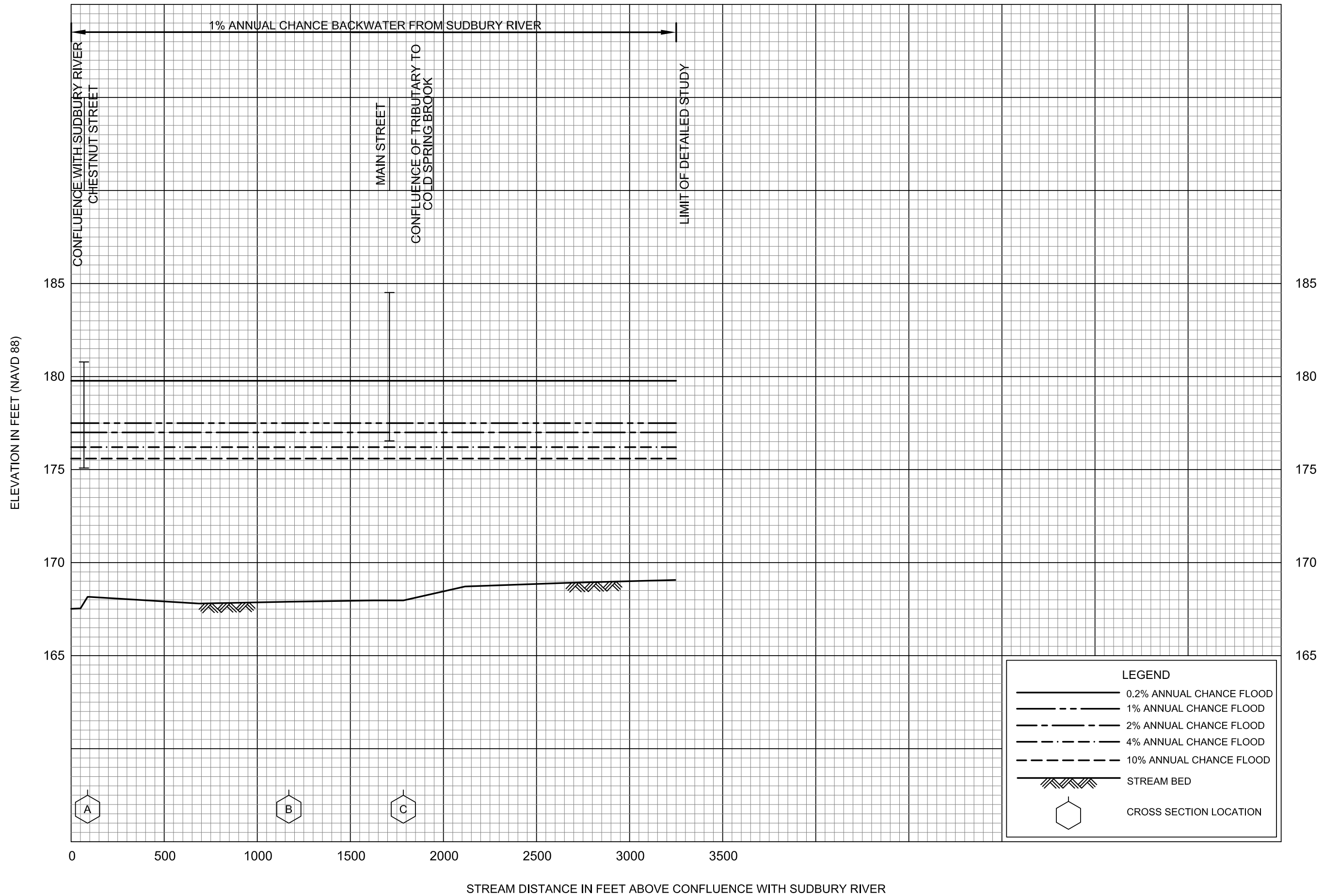
COCHITUATE BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

WORCHESTER COUNTY, MA

(ALL JURISDICTIONS)





FEDERAL EMERGENCY MANAGEMENT AGENCY

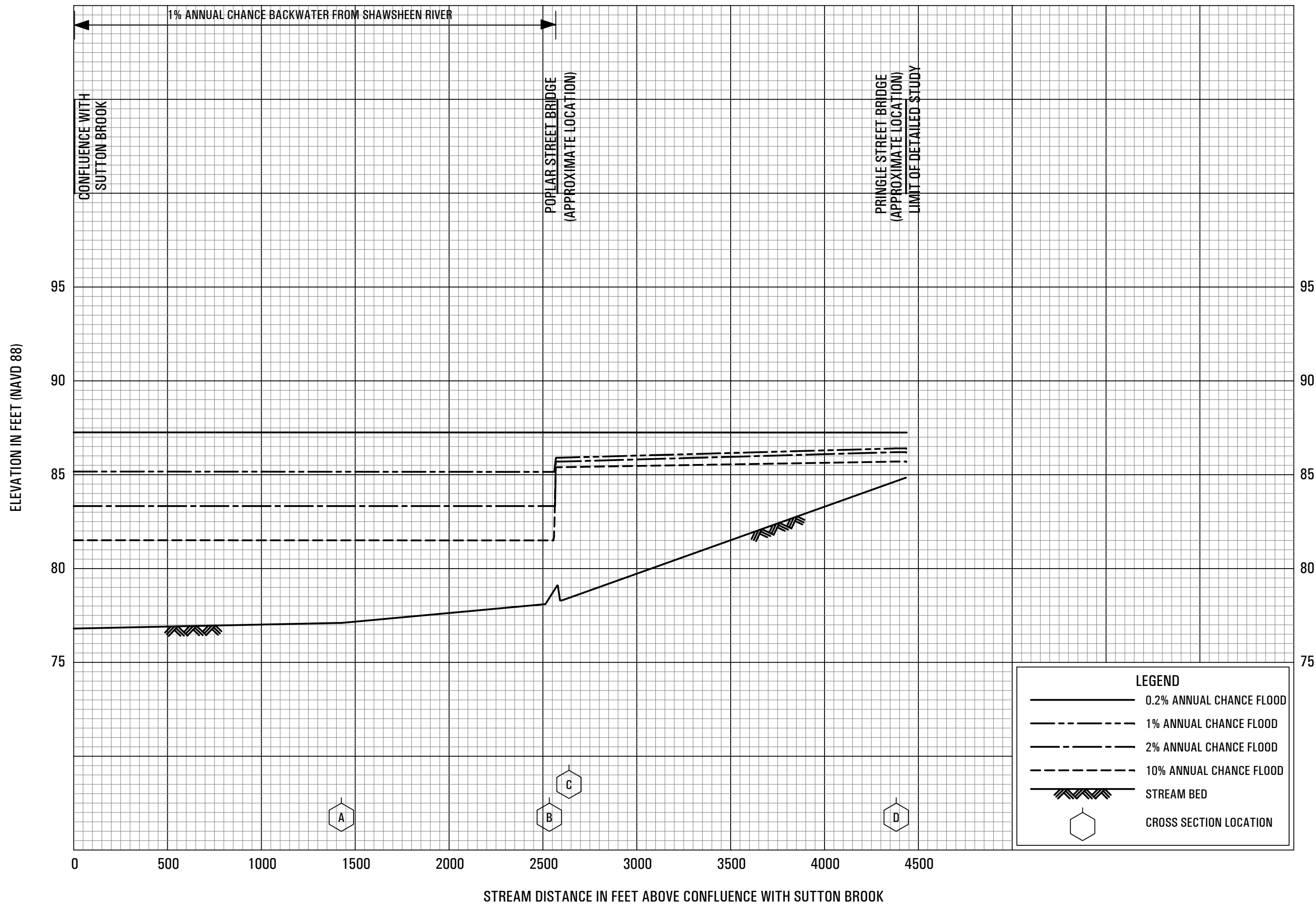
MIDDLESEX COUNTY, MA

(ALL JURISDICTIONS)

FLOOD PROFILES

COLD SPRING BROOK

148P



FLOOD PROFILES

COLLINS BROOK

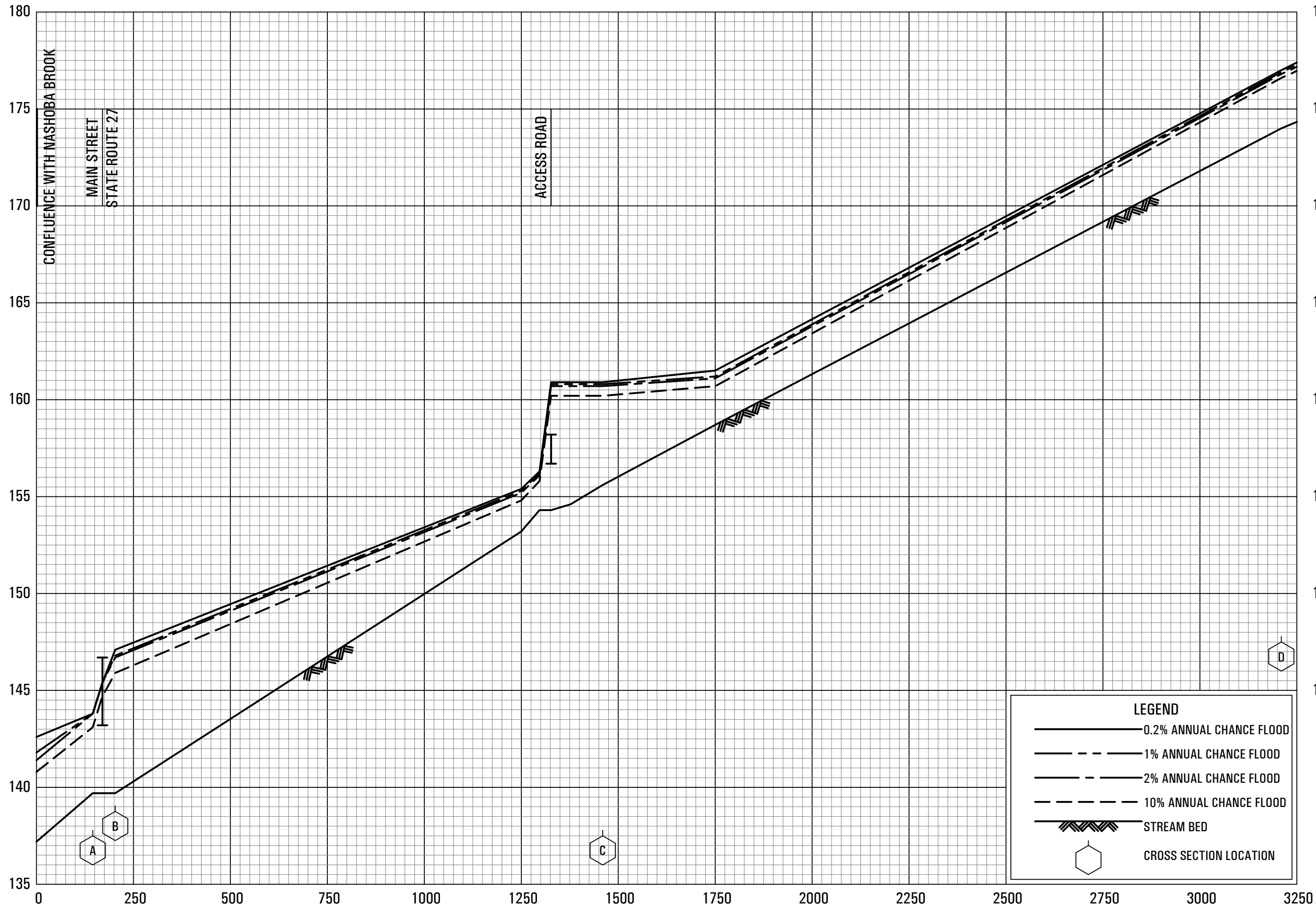
FEDERAL EMERGENCY MANAGEMENT AGENCY

MIDDLESEX COUNTY, MA

(ALL JURISDICTIONS)

153P

ELEVATION IN FEET (NAVD 88)



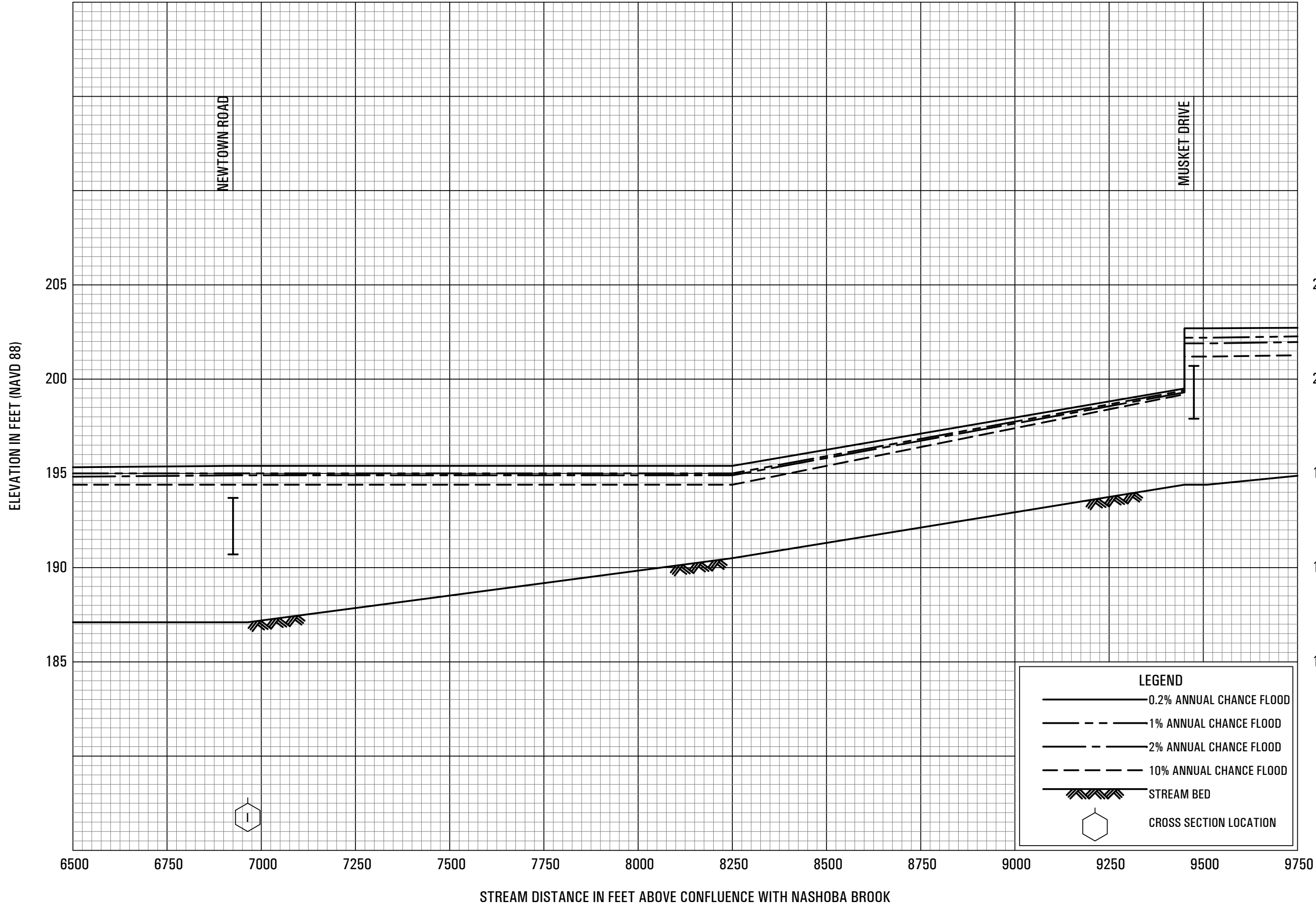
STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH NASHOBA BROOK

FLOOD PROFILES

CONANT BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)

154P

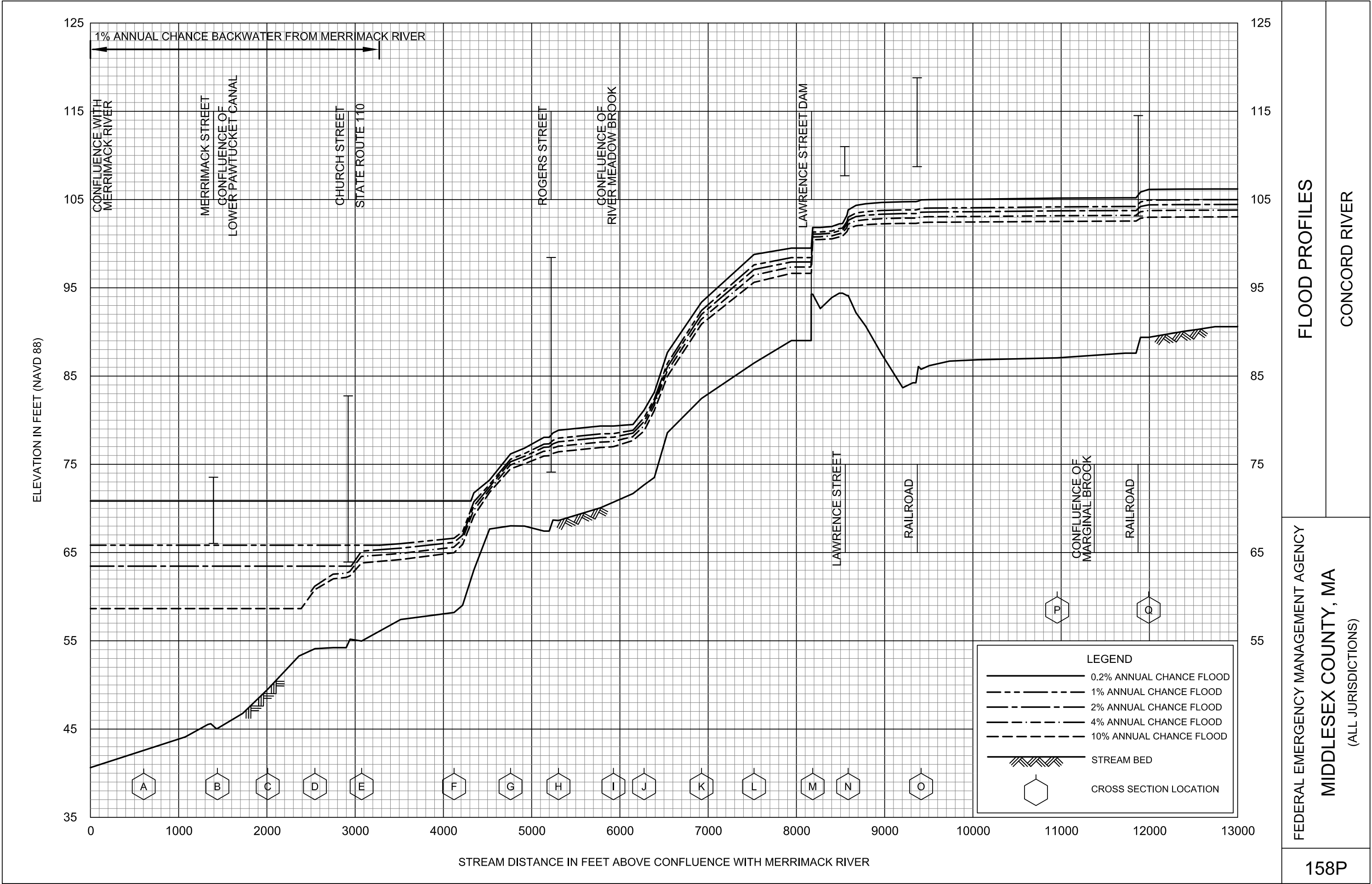


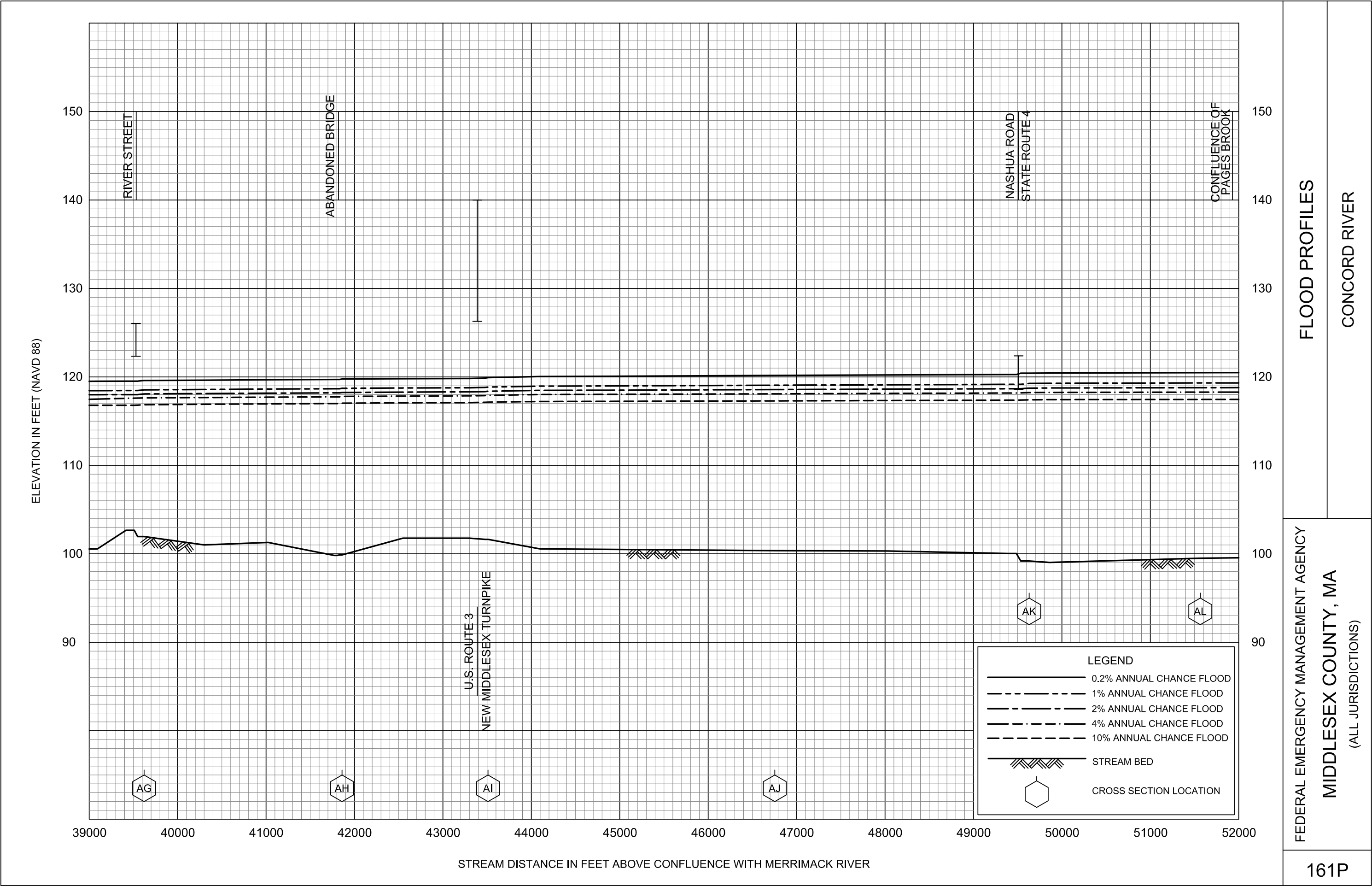
FLOOD PROFILES

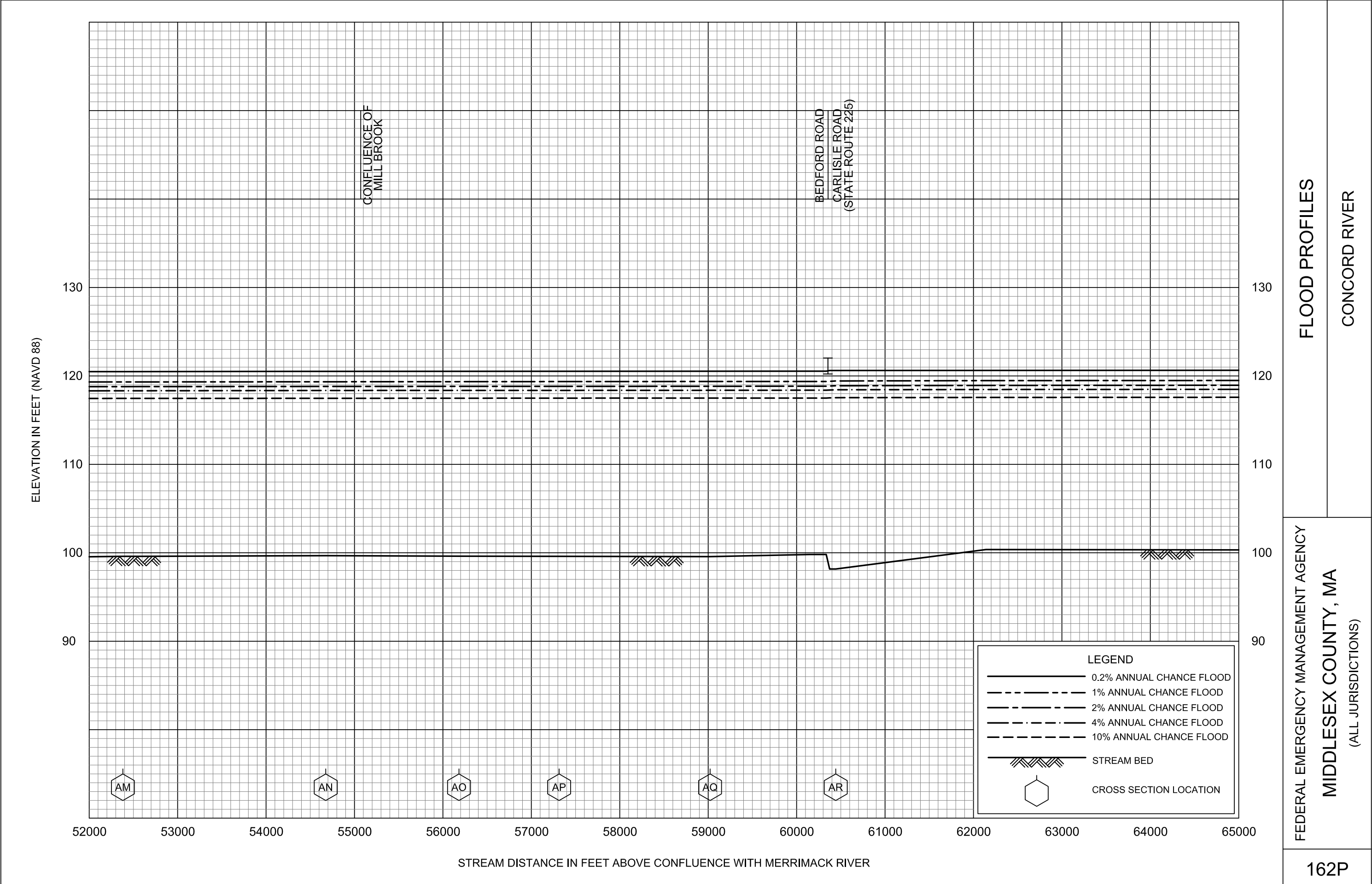
CONANT BROOK

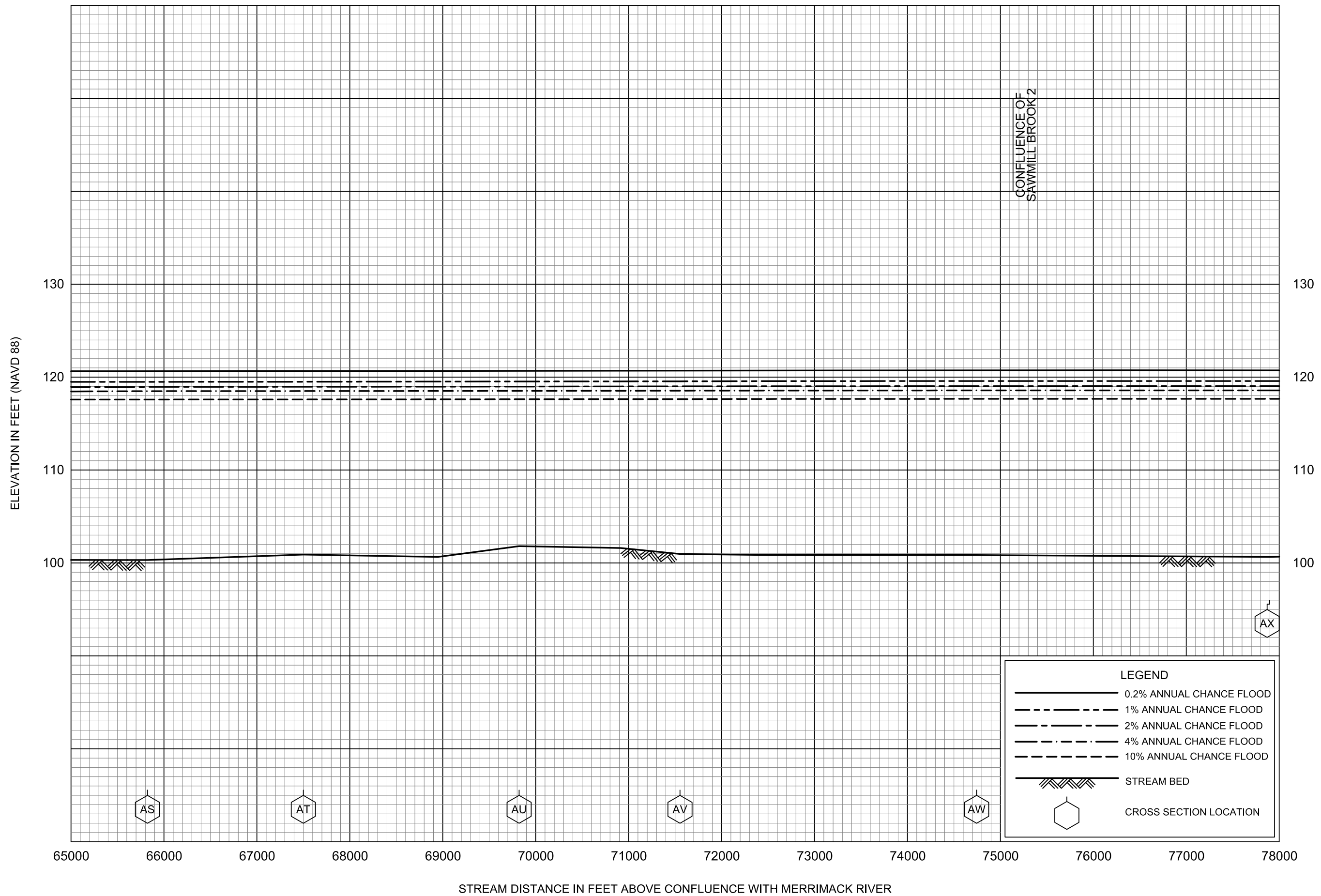
FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)

156P







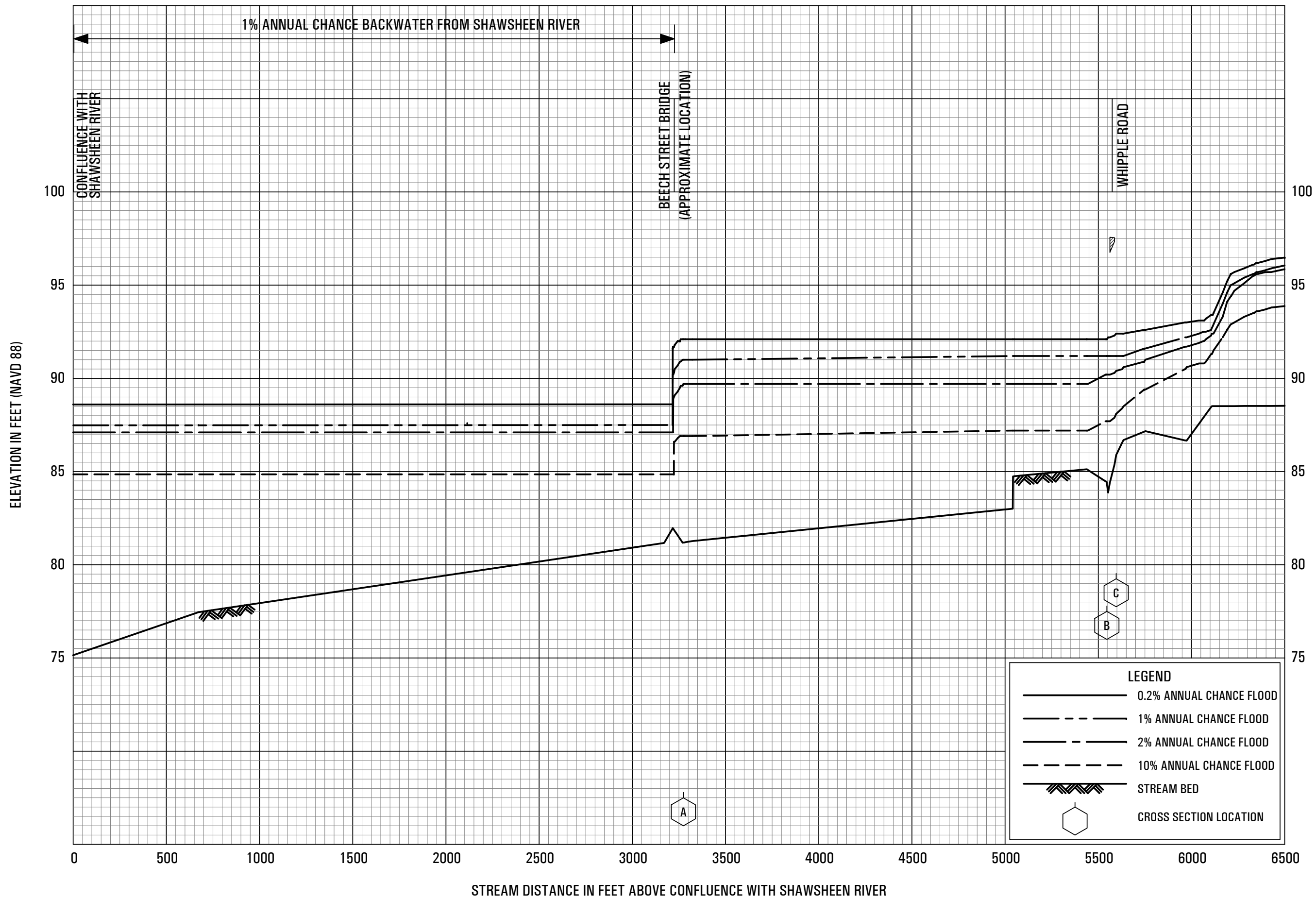


FLOOD PROFILES

MIDDLESEX COUNTY, MA

CONCORD RIVER

163P



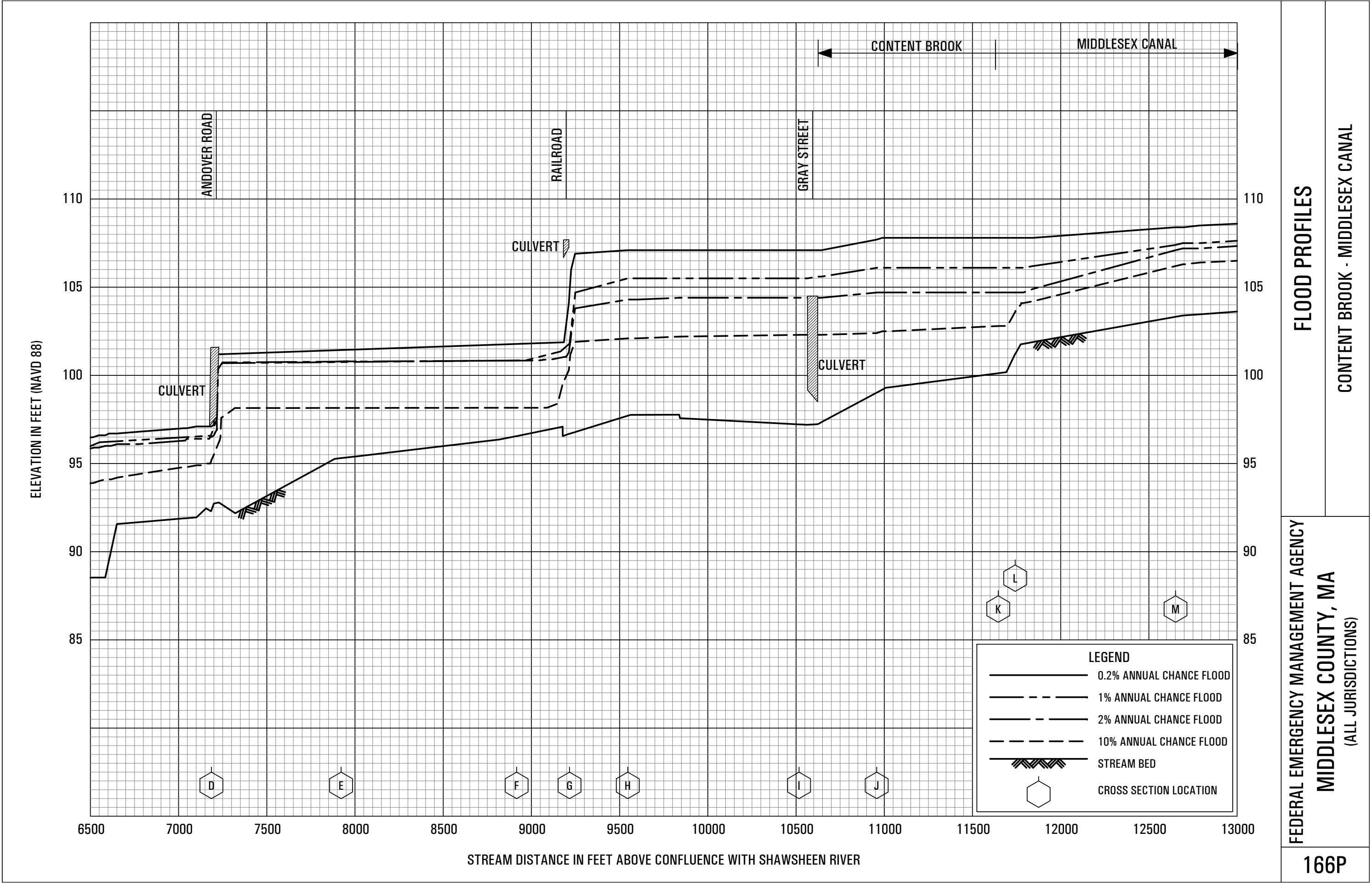
FEDERAL EMERGENCY MANAGEMENT AGENCY

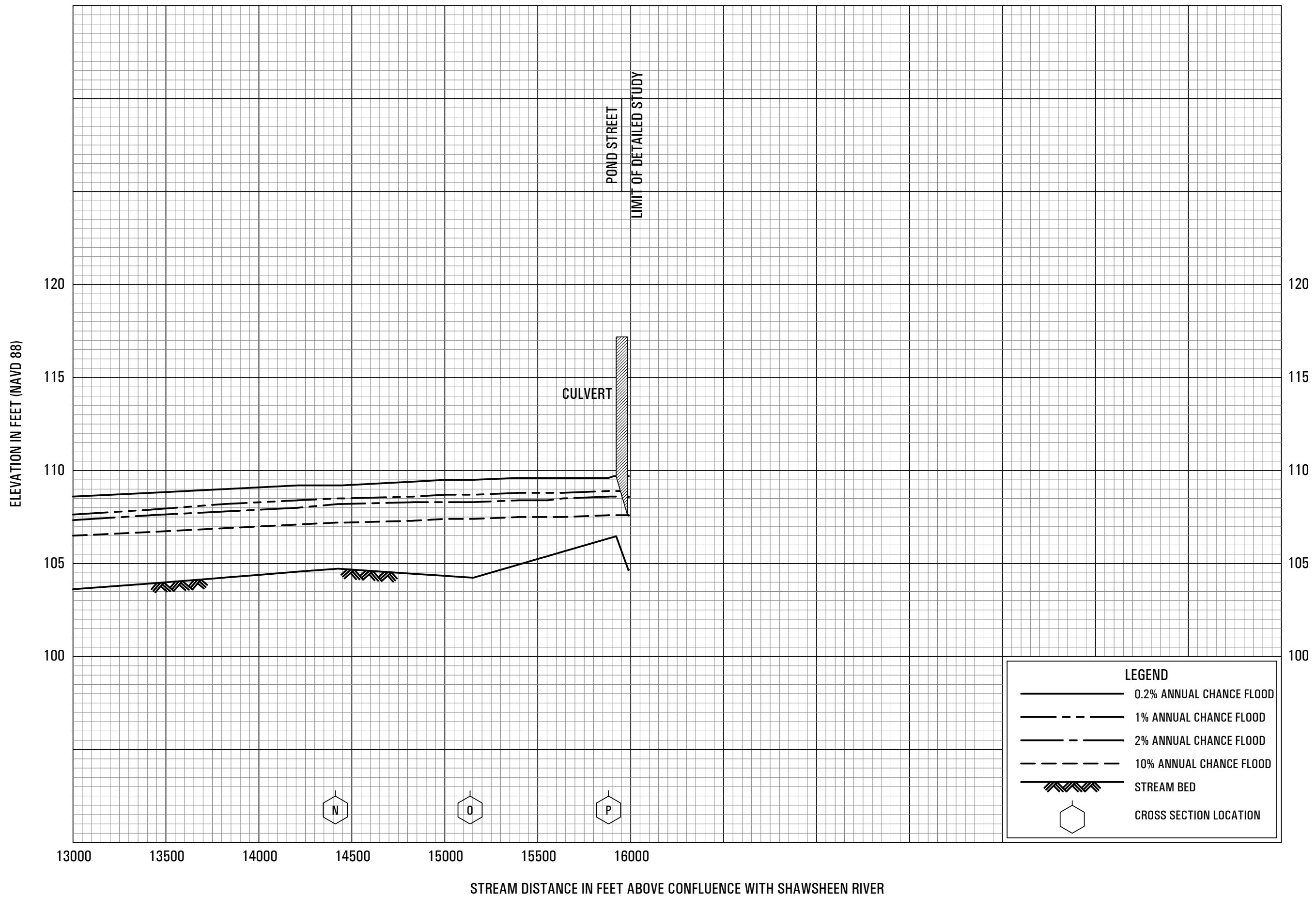
MIDDLESEX COUNTY, MA

(ALL JURISDICTIONS)

FLOOD PROFILES

CONTENT BROOK - MIDDLESEX CANAL



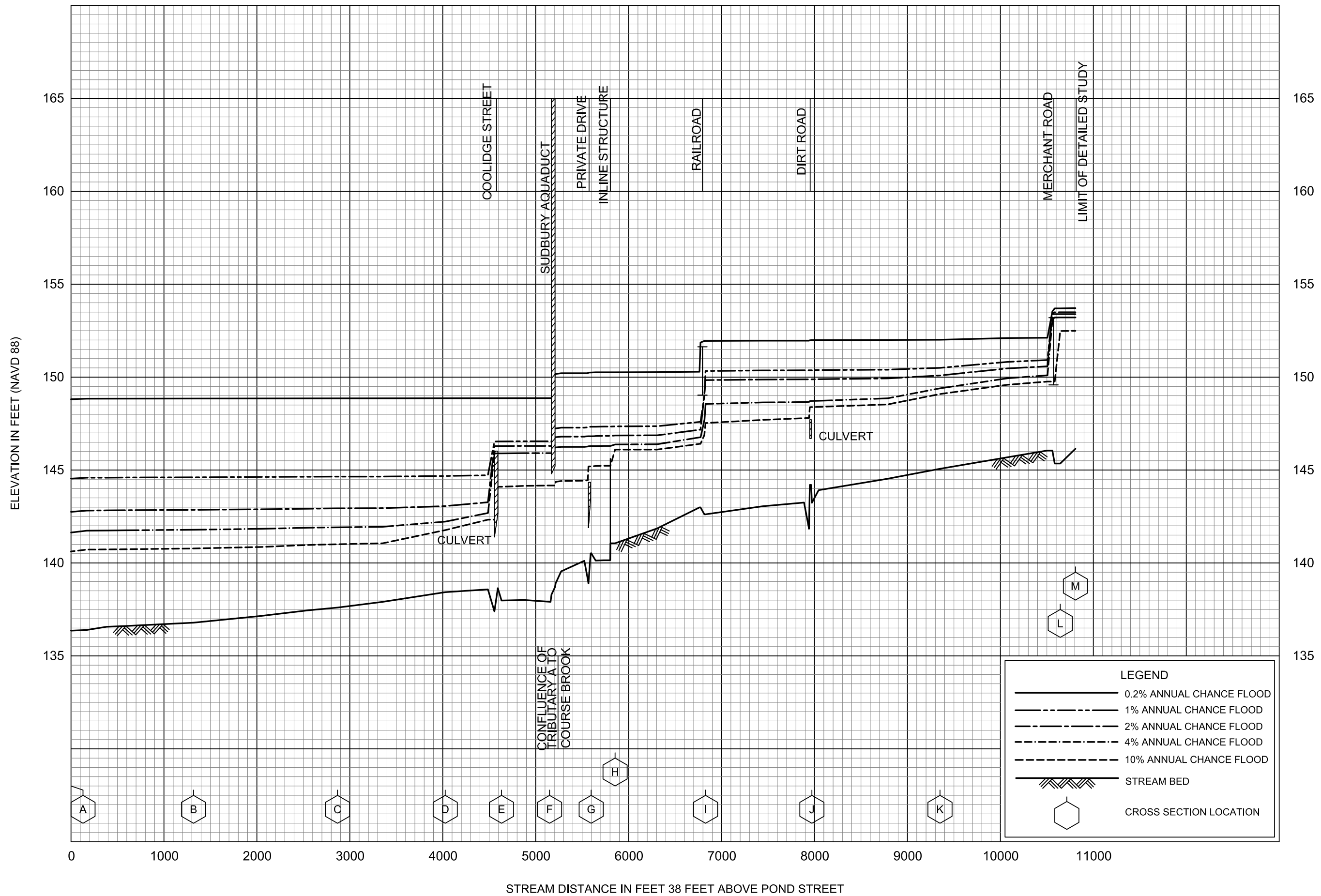


FLOOD PROFILES

CONTENT BROOK - MIDDLESEX CANAL

**FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

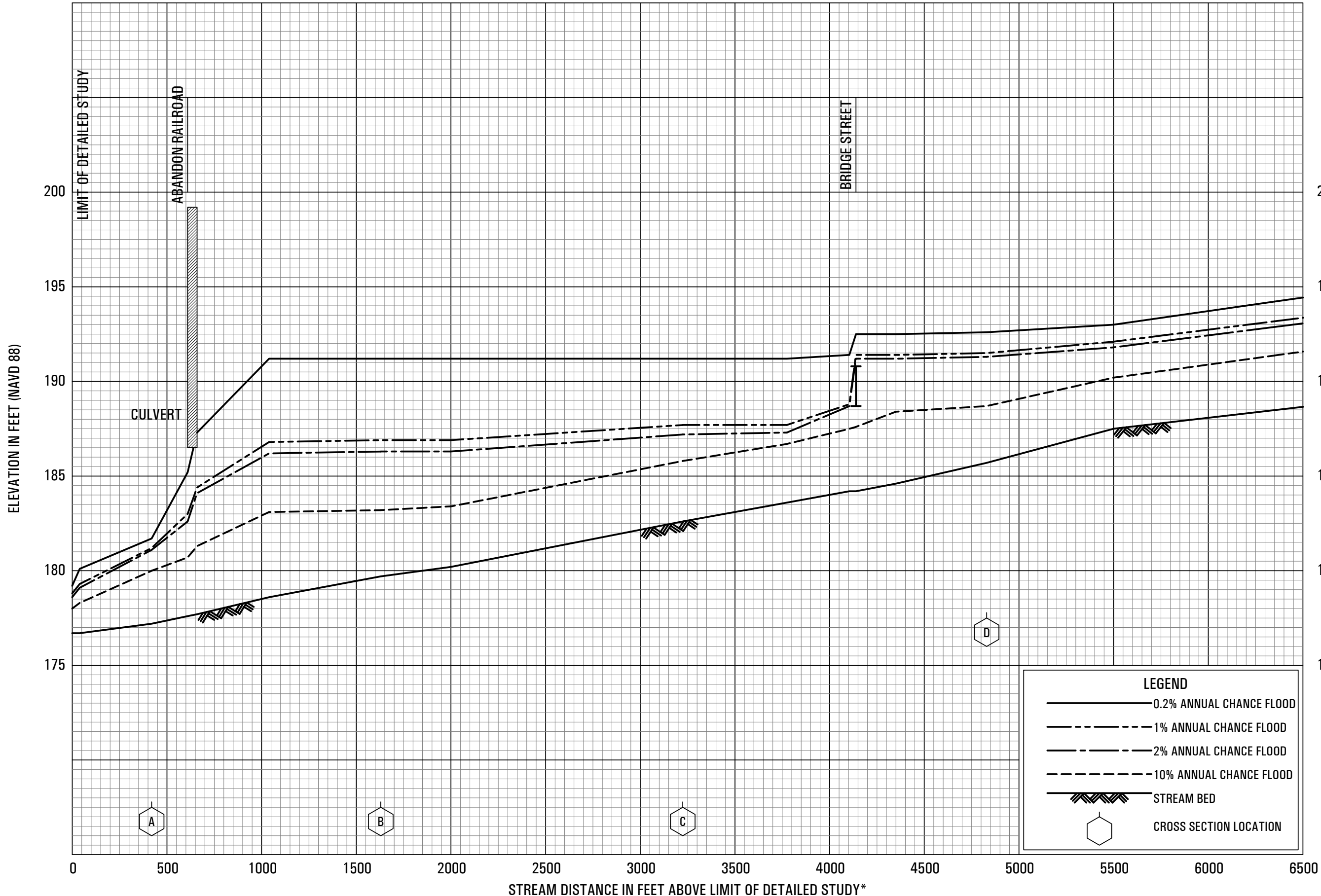
167P



FEDERAL EMERGENCY MANAGEMENT AGENCY

MIDDLESEX COUNTY, MA

(ALL JURISDICTIONS)



*LIMIT OF DETAILED STUDY IS APPROXIMATELY 4,140 FEET DOWNSTREAM OF BRIDGE STREET

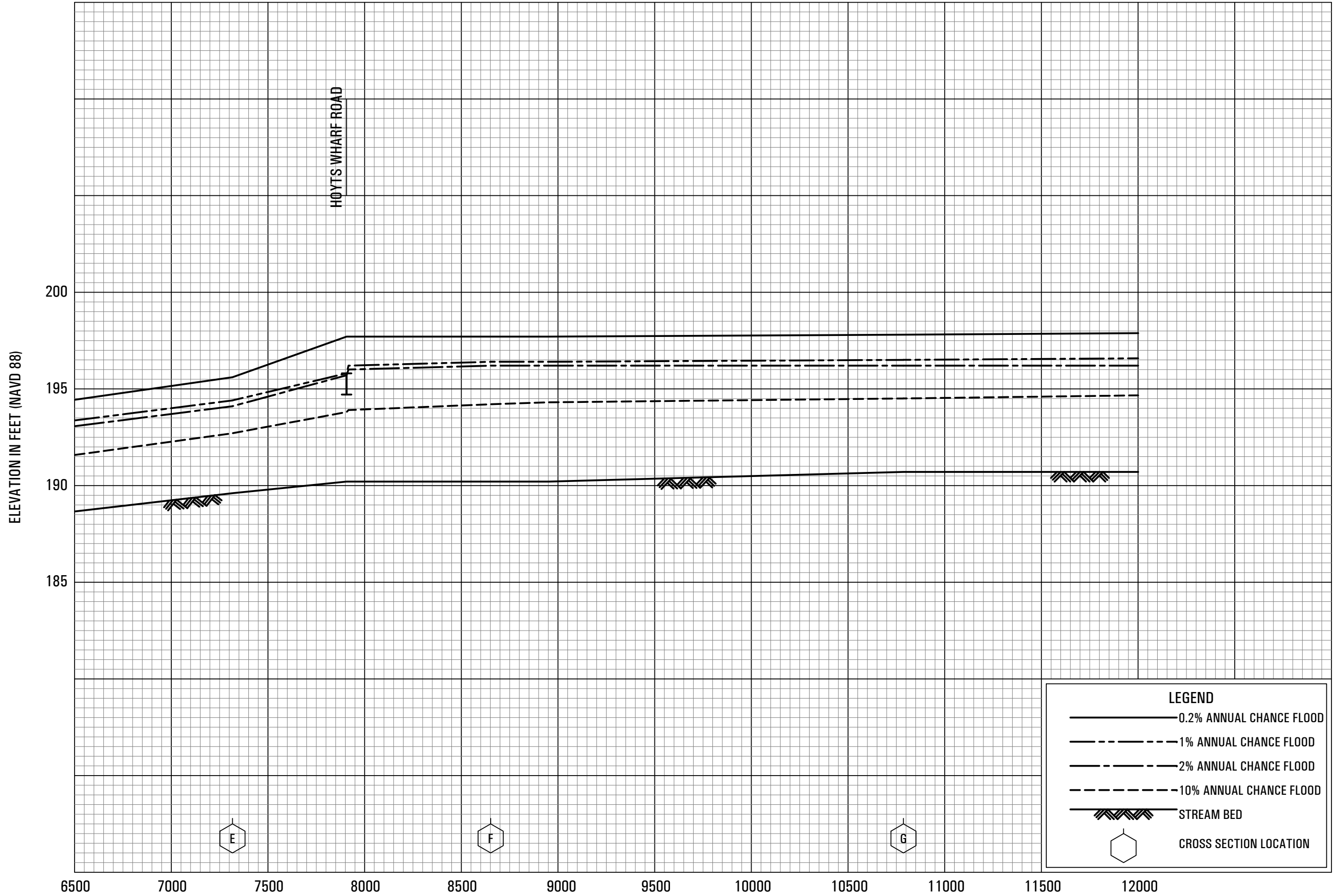
FLOOD PROFILES

COW POND BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

MIDDLESEX COUNTY, MA

(ALL JURISDICTIONS)

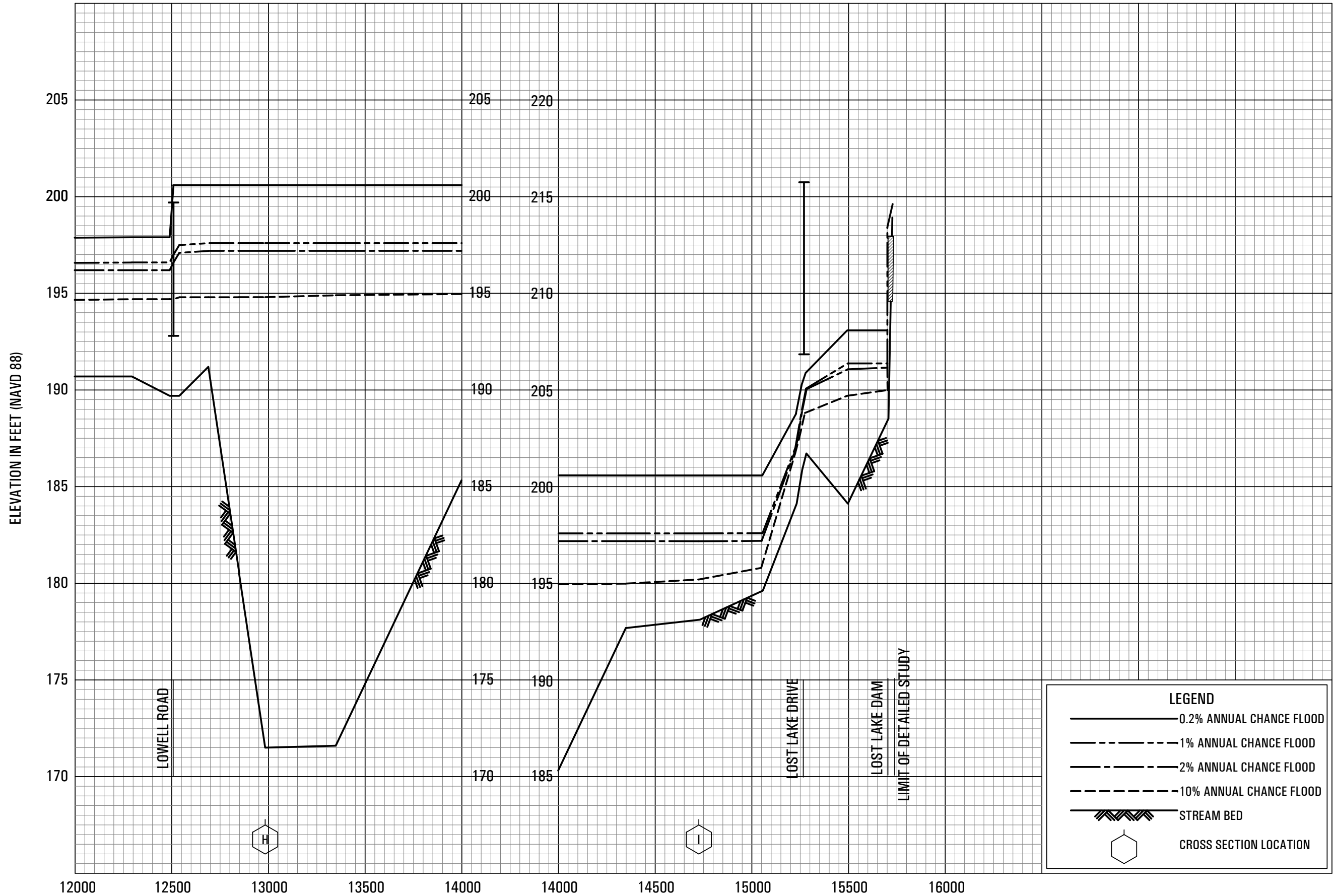


STREAM DISTANCE IN FEET ABOVE LIMIT OF DETAILED STUDY*
*LIMIT OF DETAILED STUDY IS APPROXIMATELY 4,140 FEET DOWNSTREAM OF BRIDGE STREET

FLOOD PROFILES

COW POND BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)



STREAM DISTANCE IN FEET ABOVE LIMIT OF DETAILED STUDY*

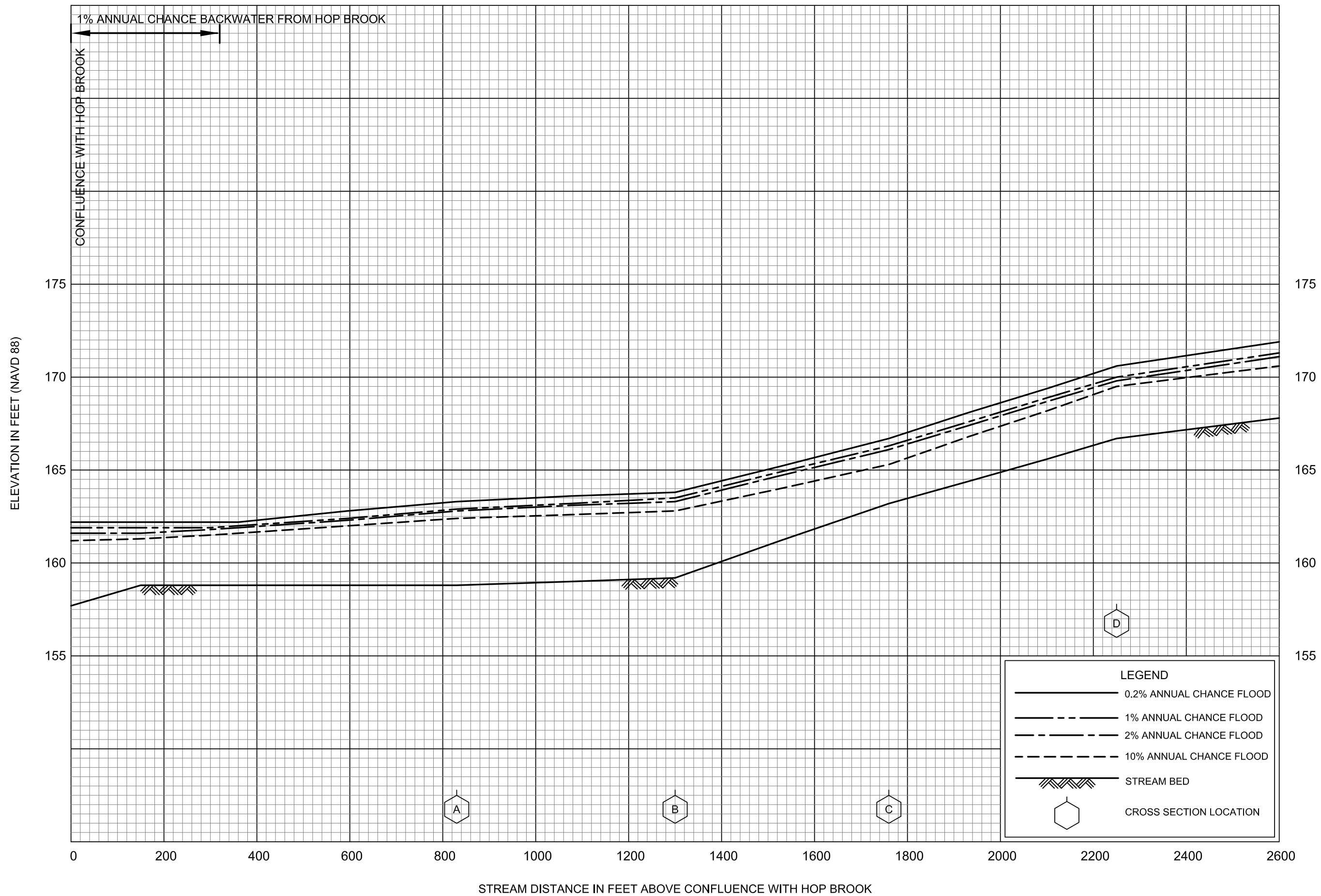
*LIMIT OF DETAILED STUDY IS APPROXIMATELY 4,140 FEET DOWNSTREAM OF BRIDGE STREET

FLOOD PROFILES

COW POND BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)

171P



FLOOD PROFILES

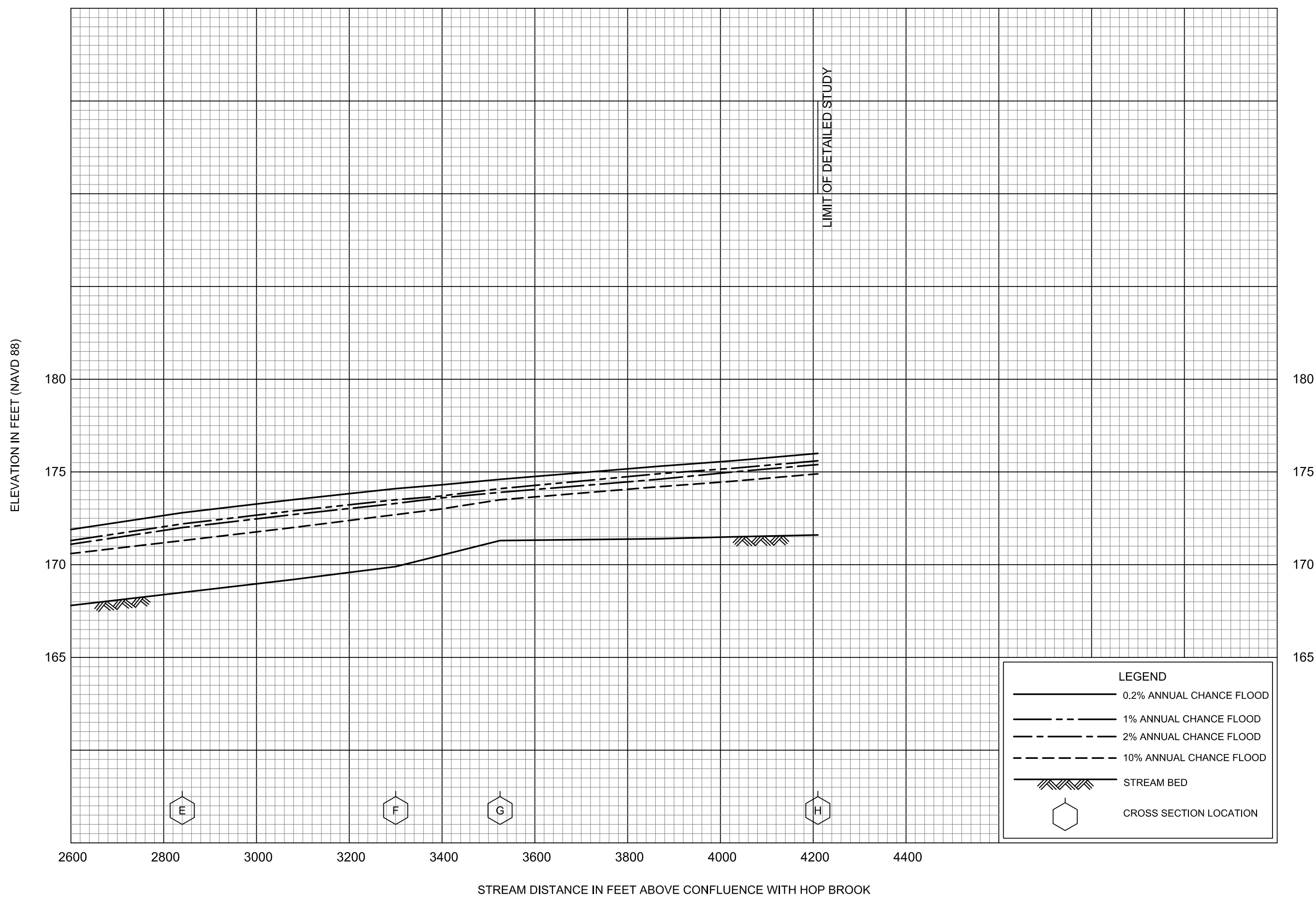
CRANBERRY BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

MIDDLESEX COUNTY, MA

(ALL JURISDICTIONS)

172P



FEDERAL EMERGENCY MANAGEMENT AGENCY

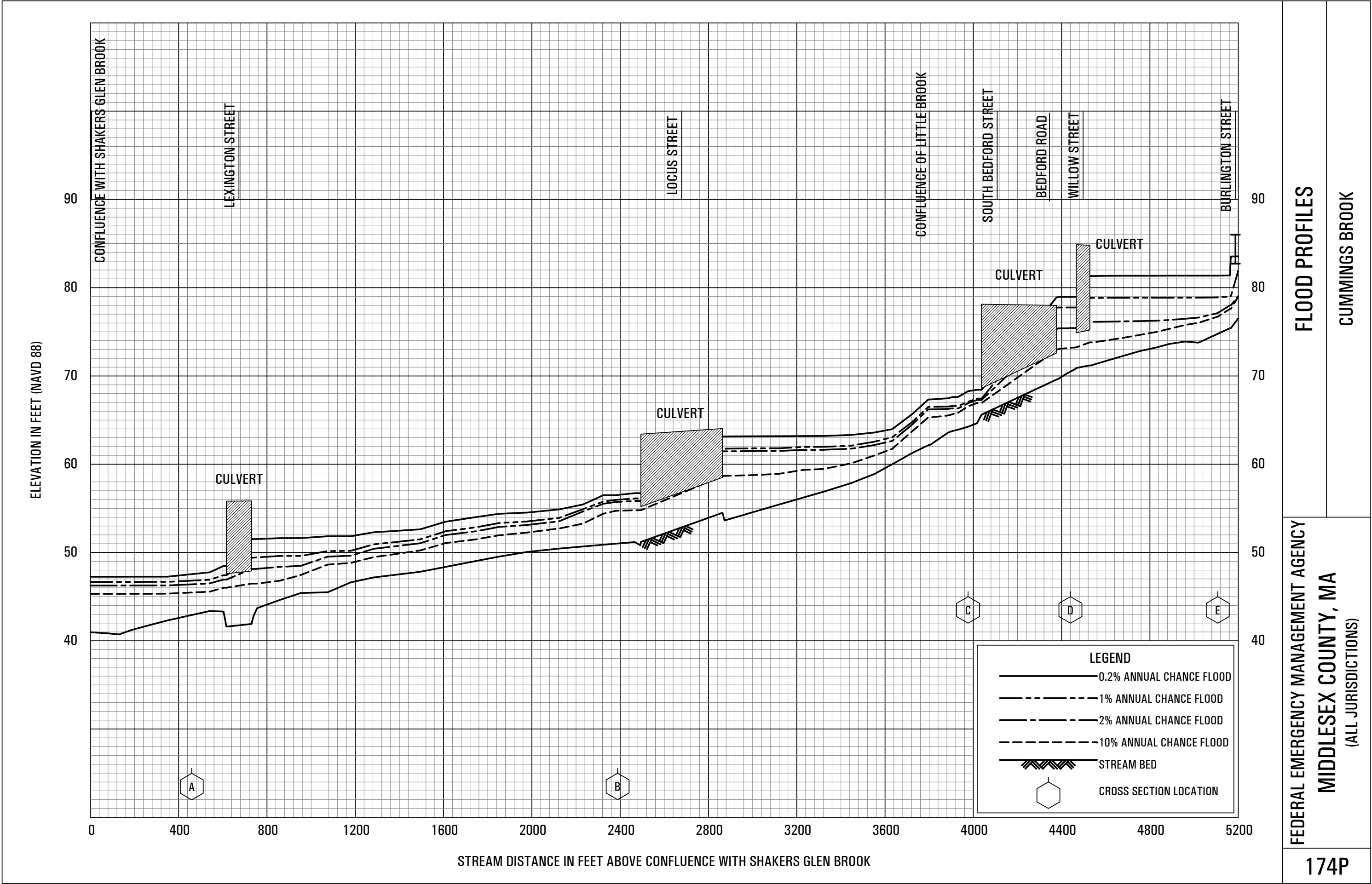
MIDDLESEX COUNTY, MA

(ALL JURISDICTIONS)

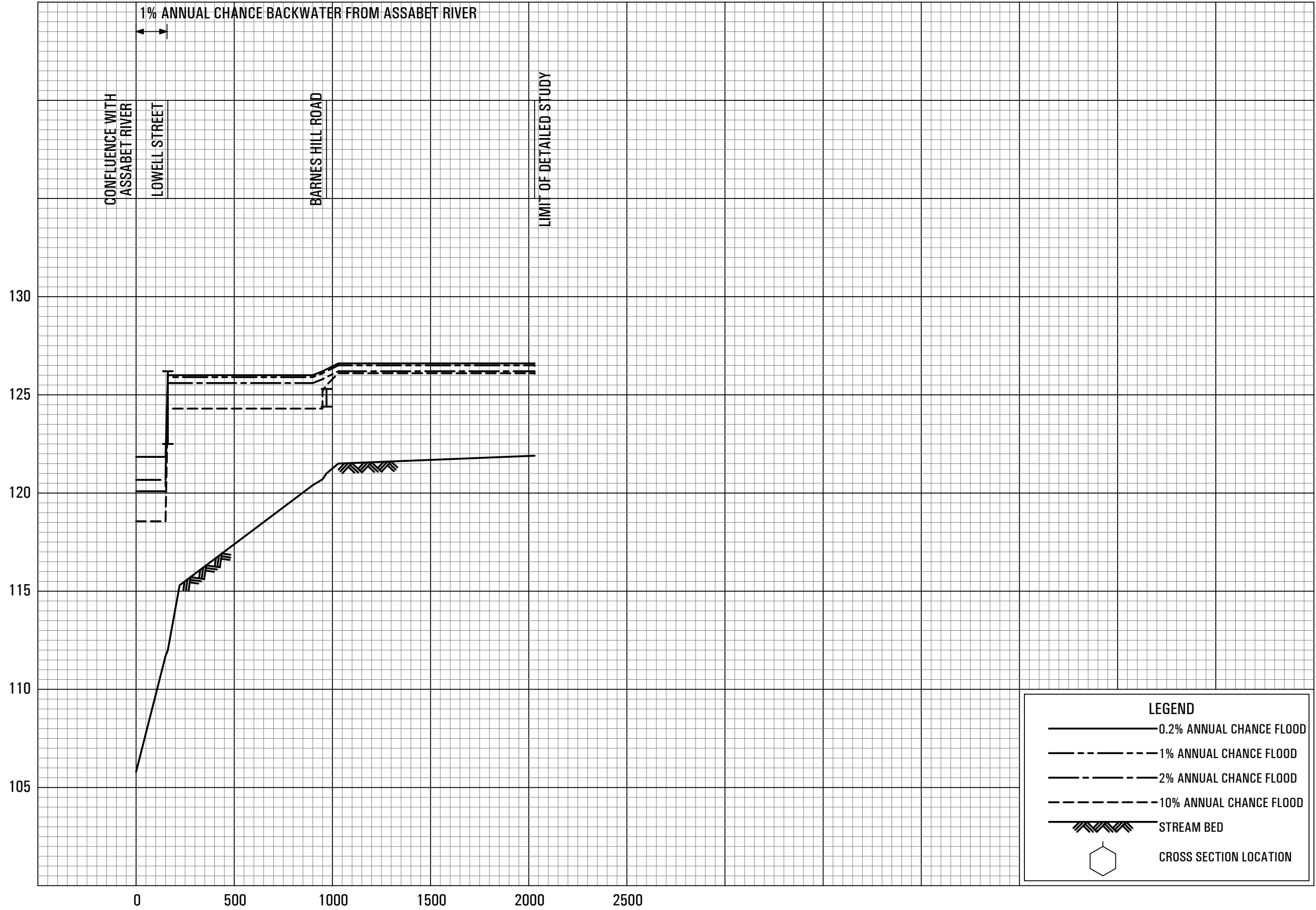
FLOOD PROFILES

CRANBERRY BROOK

173P



ELEVATION IN FEET (NAVD 88)



STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH ASSABET RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)

FLOOD PROFILES

DAKINS BROOK

176P