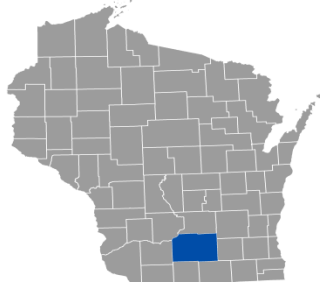


FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 1 OF 4



DANE COUNTY, WISCONSIN AND INCORPORATED AREAS

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
VILLAGE OF BELLEVILLE	550159	VILLAGE OF MAPLE BLUFF	550618
VILLAGE OF BLACK EARTH	550079	VILLAGE OF MARSHALL	550084
VILLAGE OF BLUE MOUNDS*	550620	VILLAGE OF MAZOMANIE	550085
VILLAGE OF BROOKLYN*	550621	VILLAGE OF McFARLAND	550086
VILLAGE OF CAMBRIDGE	550080	CITY OF MIDDLETON	550087
VILLAGE OF COTTAGE GROVE	550617	CITY OF MONONA	550088
VILLAGE OF CROSS PLAINS	550081	VILLAGE OF MOUNT HOREB	550624
DANE COUNTY UNINCORPORATED AREAS	550077	VILLAGE OF OREGON	550089
VILLAGE OF DANE*	550622	VILLAGE OF ROCKDALE	550090
VILLAGE OF DEERFIELD	550623	VILLAGE OF SHOREWOOD HILLS	550556
VILLAGE OF DeFOREST	550082	CITY OF STOUGHTON	550091
CITY OF EDGERTON	550365	CITY OF SUN PRAIRIE	550573
CITY OF FITCHBURG	550610	CITY OF VERONA	550092
CITY OF MADISON	550083	VILLAGE OF WAUNAKEE	550093

* No Special Flood Hazards Identified in Dane County

EFFECTIVE:

REVISED PRELIMINARY 05/20/2015



FEMA

FLOOD INSURANCE STUDY NUMBER
55025CV001D

Version Number 2.2.2.1

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Published Separately

Flood Insurance Rate Map (FIRM)

FLOOD INSURANCE STUDY REPORT DANE COUNTY, WISCONSIN AND INCORPORATED AREAS

SECTION 1.0 – INTRODUCTION

1.1 The National Flood Insurance Program

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

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

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

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

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

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

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

1.2 Purpose of this Flood Insurance Study Report

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

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

1.3 Jurisdictions Included in the Flood Insurance Study Project

This FIS Report covers the entire geographic area of Dane County, Wisconsin and Incorporated Areas.

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

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

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

Table 1: Listing of NFIP Jurisdictions

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Village of Belleville	550159	07090004	55025C0568H, 55025C0731H, 55025C0732G	
Village of Black Earth	550079	07070005	55025C0169H, 55025C0188H, 55025C0335G, 55025C0355G	
Village of Blue Mounds ¹	550620	07070005, 07090003	55025C0340G	
Village of Brooklyn ¹	550621	07090002, 07090004	55025C0775G, 55025C0780G	
Village of Cambridge	550080	07090002	55025C0493H, 55025C0494H, 55025C0656H, 55025C0657H	
Village of Cottage Grove	550617	07090002	55025C0451H, 55025C0452H, 55025C0453H, 55025C0454H, 55025C0456H, 55025C0458H	
Village of Cross Plains	550081	07070005	55025C0194G, 55025C0356H, 55025C0357H, 55025C0376H	
Village of Dane ¹	550622	07090002, 07070005	55025C0045G, 55025C0075G, 55025C0210G, 55025C0230G	

¹ No Special Flood Hazard Areas Identified

Table 1: Listing of NFIP Jurisdictions (continued)

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Dane County Unincorporated Areas	550077	07070005, 07090001, 07090002, 07090003, 07090004	55025C0011H, 55025C0012H, 55025C0013H, 55025C0014H, 55025C0016H, 55025C0017H, 55025C0020H, 55025C0036H, 55025C0040H, 55025C0045G, 55025C0075G, 55025C0086G, 55025C0088H, 55025C0089H, 55025C0100G, 55025C0115H, 55025C0120H, 55025C0150G, 55025C0152H, 55025C0154H, 55025C0156H, 55025C0157H, 55025C0158H, 55025C0159H, 55025C0162H, 55025C0165G, 55025C0166H, 55025C0167H, 55025C0168G, 55025C0169H, 55025C0176H, 55025C0180G, 55025C0185G, 55025C0188H, 55025C0189H, 55025C0190G, 55025C0194H, 55025C0210G, 55025C0216H, 55025C0217H, 55025C0218G, 55025C0219H, 55025C0225G, 55025C0228G, 55025C0229G, 55025C0230G, 55025C0233H, 55025C0235H, 55025C0236H, 55025C0237H, 55025C0238H, 55025C0239H, 55025C0241H, 55025C0242H, 55025C0243H, 55025C0244H, 55025C0251H, 55025C0252H, 55025C0253H, 55025C0254H, 55025C0258H, 55025C0259H, 55025C0260G, 55025C0261H, 55025C0262H, 55025C0263H, 55025C0264H, 55025C0266H, 55025C0267G, 55025C0268H, 55025C0269H, 55025C0279H, 55025C0280H, 55025C0285H, 55025C0286H, 55025C0287H, 55025C0288H, 55025C0289H, 55025C0291H, 55025C0292H, 55025C0293H, 55025C0294H, 55025C0303H, 55025C0304H, 55025C0305H, 55025C0310G, 55025C0311H, 55025C0312H, 55025C0313H, 55025C0314H, 55025C0316H, 55025C0317H, 55025C0318H, 55025C0319H, 55025C0330G, 55025C0335G, 55025C0340G, 55025C0345G, 55025C0352H, 55025C0355G, 55025C0356H, 55025C0357H, 55025C0360G, 55025C0365G, 55025C0370G, 55025C0376H, 55025C0377G, 55025C0378H, 55025C0379G, 55025C0381G, 55025C0382G, 55025C0383G, 55025C0384G, 55025C0389G, 55025C0390G, 55025C0393G, 55025C0394G, 55025C0395G, 55025C0401G, 55025C0402G, 55025C0403G, 55025C0404G, 55025C0406G, 55025C0407G, 55025C0408G, 55025C0409G, 55025C0413G, 55025C0415G, 55025C0416G, 55025C0417G, 55025C0419G, 55025C0426H, 55025C0427H, 55025C0428G, 55025C0429H, 55025C0431H,	

Table 1: Listing of NFIP Jurisdictions (continued)

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
(Continued) Dane County Unincorporated Areas	550077	07070005, 07090001, 07090002, 07090003, 07090004	55025C0432H, 55025C0433G, 55025C0434H, 55025C0436G, 55025C0437G, 55025C0438G, 55025C0439G, 55025C0441G, 55025C0442G, 55025C0443H, 55025C0444H, 55025C0451H, 55025C0452H, 55025C0453H, 55025C0454H, 55025C0456H, 55025C0457H, 55025C0458H, 55025C0459H, 55025C0461H, 55025C0462H, 55025C0463H, 55025C0464H, 55025C0466H, 55025C0467H, 55025C0470G, 55025C0478H, 55025C0479H, 55025C0480G, 55025C0483H, 55025C0484H, 55025C0485G, 55025C0486H, 55025C0487H, 55025C0488H, 55025C0489H, 55025C0491H, 55025C0492H, 55025C0493H, 55025C0494H, 55025C0510G, 55025C0525G, 55025C0530G, 55025C0550G, 55025C0552G, 55025C0554G, 55025C0555G, 55025C0556G, 55025C0557G, 55025C0558G, 55025C0559G, 55025C0565G, 55025C0566G, 55025C0567G, 55025C0568H, 55025C0569H, 55025C0576G, 55025C0580G, 55025C0584H, 55025C0585H, 55025C0590G, 55025C0592H, 55025C0595G, 55025C0601G, 55025C0602G, 55025C0605G, 55025C0606H, 55025C0607H, 55025C0608H, 55025C0609H, 55025C0611H, 55025C0612H, 55025C0613H, 55025C0614H, 55025C0616H, 55025C0618H, 55025C0620H, 55025C0626H, 55025C0627H, 55025C0628H, 55025C0629H, 55025C0633H, 55025C0635H, 55025C0636H, 55025C0637H, 55025C0638G, 55025C0639H, 55025C0645G, 55025C0655H, 55025C0656H, 55025C0657H, 55025C0658H, 55025C0659H, 55025C0661H, 55025C0662H, 55025C0663H, 55025C0664H, 55025C0666H, 55025C0667H, 55025C0668H, 55025C0669H, 55025C0700G, 55025C0725G, 55025C0731H, 55025C0732G, 55025C0750G, 55025C0775G, 55025C0780G, 55025C0785H, 55025C0802H, 55025C0805G, 55025C0806H, 55025C0810G, 55025C0827H, 55025C0830H, 55025C0831H, 55025C0832H	
Village of Deerfield	550623	07090002	55025C0479H, 55025C0486H, 55025C0487H, 55025C0491H	

Table 1: Listing of NFIP Jurisdictions (continued)

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Village of DeForest	550082	07090002	55025C0075G, 55025C0088H, 55025C0089H, 55025C0235H, 55025C0251H, 55025C0252H, 55025C0253H, 55025C0254H, 55025C0258H, 55025C0261H, 55025C0262H	
City of Edgerton	550365	07090002	55025C0827H, 55025C0831H	
City of Fitchburg	550610	07090002	55025C0413G, 55025C0415G, 55025C0416G, 55025C0417G, 55025C0418G, 55025C0419G, 55025C0438G, 55025C0576G, 55025C0580G, 55025C0584H, 55025C0585H, 55025C0601G, 55025C0605G	
City of Madison	550083	07090002, 07070005, 07090004	55025C0242H, 55025C0243H, 55025C0244H, 55025C0261H, 55025C0262H, 55025C0263H, 55025C0264H, 55025C0266H, 55025C0267G, 55025C0268H, 55025C0269H, 55025C0288H, 55025C0379G, 55025C0383G, 55025C0384G, 55025C0389G, 55025C0390G, 55025C0393G, 55025C0394G, 55025C0395G, 55025C0401G, 55025C0403G, 55025C0404G, 55025C0407G, 55025C0408G, 55025C0409G, 55025C0413G, 55025C0415G, 55025C0416G, 55025C0417G, 55025C0418G, 55025C0419G, 55025C0426H, 55025C0427H, 55025C0428G, 55025C0429H, 55025C0431H, 55025C0432H, 55025C0433G, 55025C0434H, 55025C0436G, 55025C0437G, 55025C0438G, 55025C0439G, 55025C0441G, 55025C0442G, 55025C0443H, 55025C0444H, 55025C0451H, 55025C0453H, 55025C0461H, 55025C0463H, 55025C0557G, 55025C0576G	
Village of Maple Bluff	550618	07090002	55025C0407G, 55025C0426H	
Village of Marshall	550084	07090001	55025C0304H, 55025C0310G, 55025C0312H, 55025C0316H	
Village of Mazomanie	550085	07070005	55025C0162H, 55025C0166H, 55025C0167H	
Village of McFarland	550086	07090002	55025C0437G, 55025C0439G, 55025C0441G, 55025C0443H, 55025C0444H	

Table 1: Listing of NFIP Jurisdictions (continued)

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
City of Middleton	550087	07090002, 07070005	55025C0219H, 55025C0238H, 55025C0239H, 55025C0381G, 55025C0382G, 55025C0383G, 55025C0384G, 55025C0401G, 55025C0402G, 55025C0403G	
City of Monona	550088	07090002	55025C0428G, 55025C0429H, 55025C0436G, 55025C0437G, 55025C0441G	
Village of Mount Horeb	550624	07070005	55025C0345G, 55025C0365G, 55025C0510G, 55025C0530G	
Village of Oregon	550089	07090002, 07090004	55025C0584H, 55025C0592H, 55025C0595G, 55025C0605G, 55025C0611H	
Village of Rockdale	550090	07090002	55025C0656H, 55025C0657H, 55025C0658H, 55025C0659H	
Village of Shorewood Hills	550556	07090002	55025C0404G, 55025C0408G	
City of Stoughton	550091	07090002	55025C0609H, 55025C0620H, 55025C0628H, 55025C0629H, 55025C0636H, 55025C0637H, 55025C0638G, 55025C0639H, 55025C0645G	
City of Sun Prairie	550573	07090001, 07090002	55025C0258H, 55025C0259H, 55025C0266H, 55025C0267G, 55025C0269H, 55025C0279H, 55025C0280H, 55025C0285H, 55025C0286H, 55025C0287H, 55025C0288H, 55025C0291H	
City of Verona	550092	07090004	55025C0389G, 55025C0393G, 55025C0394G, 55025C0552G, 55025C0556G, 55025C0557G, 55025C0558G, 55025C0559G, 55025C0576G, 55025C0580G	
Village of Waunakee	550093	07090002	55025C0228G, 55025C0229G, 55025C0233H, 55025C0236H, 55025C0237H, 55025C0241H, 55025C0242H	

1.4 Considerations for using this Flood Insurance Study Report

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

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

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

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

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

The initial Countywide FIS Report for Dane County became effective on June 17, 2003. Refer to Table 28 for information about subsequent revisions to the FIRMs.

- FEMA does not impose floodplain management requirements or special insurance ratings based on Limit of Moderate Wave Action (LiMWA) delineations at this time. The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. If the LiMWA is shown on the FIRM, it is being provided by FEMA as information only. For communities that do adopt Zone VE building standards in the area defined by the LiMWA, additional Community Rating System (CRS) credits are available. Refer to Section 2.5.4 for additional information about the LiMWA.

The CRS is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements. Visit the FEMA Web site at <http://www.fema.gov> or contact your appropriate FEMA Regional Office for more information about this program.

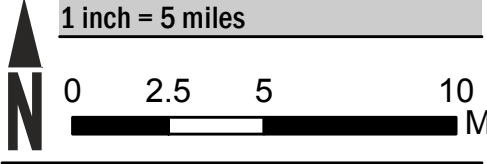
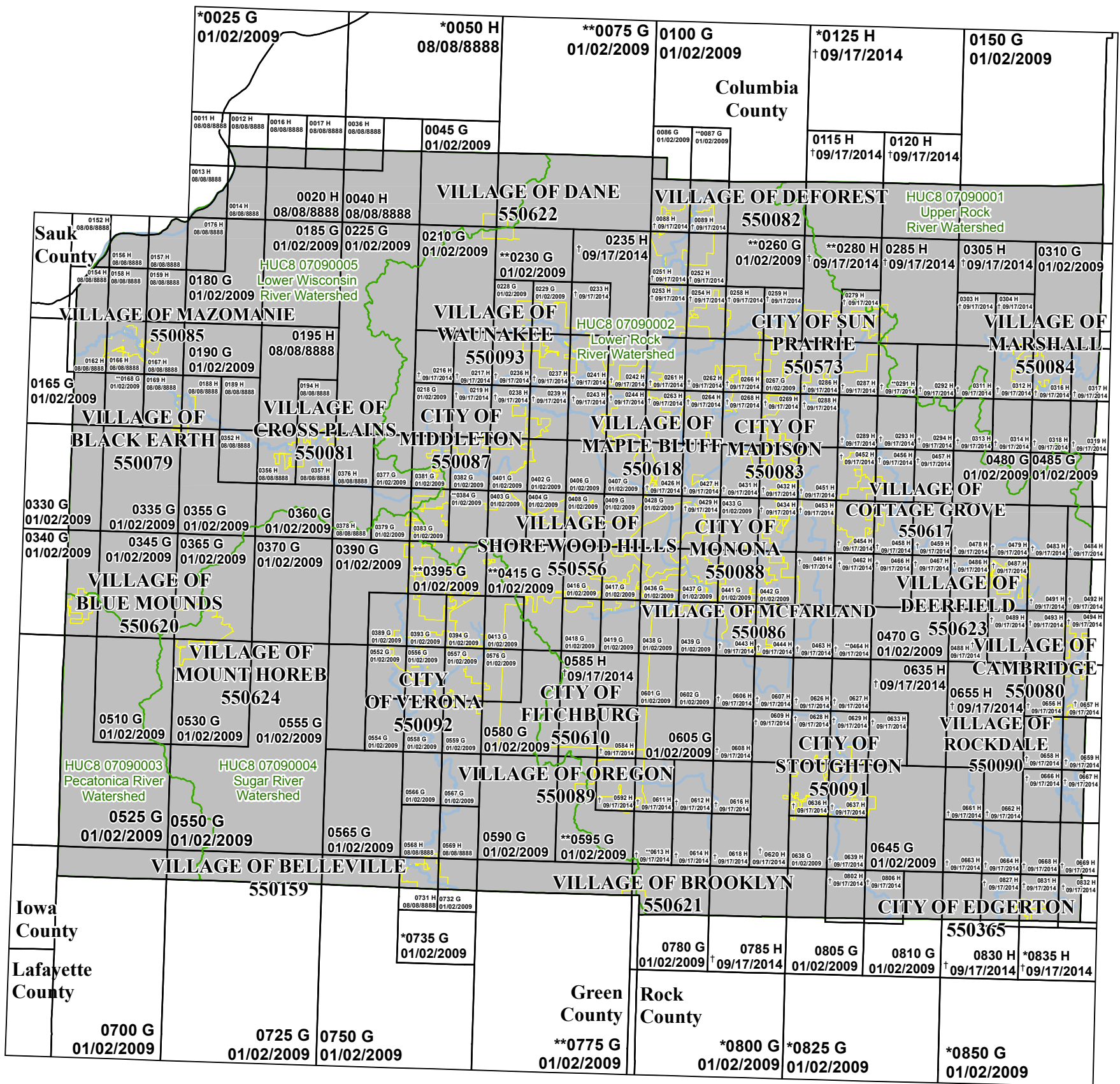
- Previous FIS Reports and FIRMs may have included levees that were accredited as providing protection from the 1% annual chance flood based on the information available

and the mapping standards of the NFIP at that time. For FEMA to continue to accredit the identified levees with providing protection from the base flood, the levees must meet the criteria of the Code of Federal Regulations, Title 44, Section 65.10 (44 CFR 65.10), titled “Mapping of Areas Protected by Levee Systems.”

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

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

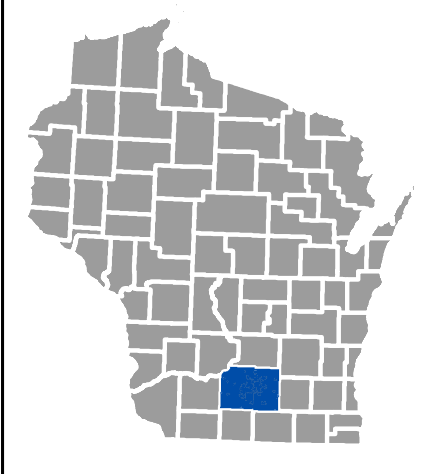
Figure 1: FIRM Panel Index



Map Projection:
NAD83 UTM zone 16N
North American Datum of 1983

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT
[HTTP://MSC.FEMA.GOV](http://MSC.FEMA.GOV)

SEE FIS REPORT FOR ADDITIONAL INFORMATION
* PANEL NOT PRINTED - AREA OUTSIDE COUNTY BOUNDARY
** PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREAS
† FUTURE EFFECTIVE DATE FROM UPPER ROCK WATERSHED PROJECT



NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP INDEX

DANE COUNTY, WISCONSIN AND INCORPORATED AREAS

- PANELS PRINTED:
0011, 0012, 0013, 0014, 0016, 0017, 0020, 0036, 0040, 0045, 0086, 0088, 0089, 0100, 0115, 0120, 0150, 0152, 0154, 0156, 0157, 0158, 0159, 0162, 0165, 0166, 0167, 0169, 0176, 0180, 0185, 0188, 0189, 0190, 0194, 0195, 0210, 0216, 0217, 0218, 0219, 0225, 0228, 0229, 0233, 0235, 0236, 0237, 0238, 0239, 0241, 0242, 0243, 0244, 0251, 0252, 0253, 0254, 0258, 0259, 0261, 0262, 0263, 0264, 0266, 0267, 0268, 0269, 0279, 0285, 0286, 0287, 0288, 0289, 0292, 0293, 0294, 0303, 0304, 0305, 0310, 0311, 0312, 0313, 0314, 0316, 0317, 0318, 0319, 0330, 0335, 0340, 0345, 0352, 0355, 0356, 0357, 0360, 0365, 0370, 0376, 0377, 0378, 0379, 0381, 0382, 0383, 0389, 0390, 0393, 0394, 0401, 0402, 0403, 0404, 0406, 0407, 0408, 0409, 0413, 0416, 0417, 0418, 0419, 0426, 0427, 0428, 0429, 0431, 0432, 0433, 0434, 0436, 0437, 0438, 0439, 0441, 0442, 0443, 0444, 0451, 0452, 0453, 0454, 0456, 0457, 0458, 0459, 0461, 0462, 0463, 0466, 0467, 0470, 0478, 0479, 0480, 0483, 0484, 0485, 0486, 0487, 0488, 0489, 0491, 0492, 0493, 0494, 0510, 0525, 0530, 0550, 0552, 0554, 0555, 0556, 0557, 0558, 0559, 0565, 0566, 0567, 0568, 0569, 0576, 0580, 0584, 0585, 0590, 0592, 0601, 0602, 0605, 0606, 0607, 0608, 0609, 0611, 0612, 0614, 0616, 0618, 0620, 0626, 0627, 0628, 0629, 0633, 0635, 0636, 0637, 0638, 0639, 0645, 0655, 0656, 0657, 0658, 0659, 0661, 0662, 0663, 0664, 0666, 0667, 0668, 0669, 0700, 0725, 0731, 0732, 0750, 0780, 0785, 0802, 0805, 0806, 0810, 0827, 0830, 0831, 0832



MAP NUMBER
55025CIND00
MAP REVISED
REVISED PRELIMINARY
MAY 20, 2015

Figure 2: FIRM Notes to Users

NOTES TO USERS

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

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

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

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

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

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

FLOODWAY INFORMATION: Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the FIS Report for this jurisdiction.

Figure 2. FIRM Notes to Users (continued)

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

PROJECTION INFORMATION: The projection used in the preparation of the map was Universal Transverse Mercator (UTM) Zone 16N. The horizontal datum was NAD83. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of the FIRM.

ELEVATION DATUM: Flood elevations on the FIRM are referenced to North American Vertical Datum of 1988 (NAVD88). These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and NAVD88, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov/> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

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

BASE MAP INFORMATION: Base map information shown on the FIRM was provided by the Wisconsin Regional Orthophotography Consortium (WROC). The aerial photography was acquired in the spring of 2010 to create 1":1000' scale digital orthophotos with 18-inch resolution. For information about base maps, refer to Section 6.2 "Base Map" in this FIS Report.

The map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables may reflect stream channel distances that differ from what is shown on the map.

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

NOTES FOR FIRM INDEX

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

Figure 2. FIRM Notes to Users (continued)

SPECIAL NOTES FOR SPECIFIC FIRM PANELS

This Notes to Users section was created specifically for Dane County, Wisconsin and Incorporated Areas, effective TBD.

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

Figure 3: Map Legend for FIRM

SPECIAL FLOOD HAZARD AREAS: *The 1% annual chance flood, also known as the base flood or 100-year flood, has a 1% chance of happening or being exceeded each year. Special Flood Hazard Areas are subject to flooding by the 1% annual chance flood. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood. The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights. See note for specific types. If the floodway is too narrow to be shown, a note is shown.*



Special Flood Hazard Areas subject to inundation by the 1% annual chance flood (Zones A, AE, AH, AO, AR, A99, V and VE)

Zone A The flood insurance rate zone that corresponds to the 1% annual chance floodplains. No base (1% annual chance) flood elevations (BFEs) or depths are shown within this zone.

Zone AE The flood insurance rate zone that corresponds to the 1% annual chance floodplains. Base flood elevations derived from the hydraulic analyses are shown within this zone, either at cross section locations or as static whole-foot elevations that apply throughout the zone.

Zone AH The flood insurance rate zone that corresponds to the areas of 1% annual chance shallow flooding (usually areas of ponding) where average depths are between 1 and 3 feet. Whole-foot BFEs derived from the hydraulic analyses are shown at selected intervals within this zone.

Zone AO The flood insurance rate zone that corresponds to the areas of 1% annual chance shallow flooding (usually sheet flow on sloping terrain) where average depths are between 1 and 3 feet. Average whole-foot depths derived from the hydraulic analyses are shown within this zone.

Zone AR The flood insurance rate zone that corresponds to areas that were formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

Zone A99 The flood insurance rate zone that corresponds to areas of the 1% annual chance floodplain that will be protected by a Federal flood protection system where construction has reached specified statutory milestones. No base flood elevations or flood depths are shown within this zone.

Zone V The flood insurance rate zone that corresponds to the 1% annual chance coastal floodplains that have additional hazards associated with storm waves. Base flood elevations are not shown within this zone.

Zone VE Zone VE is the flood insurance rate zone that corresponds to the 1% annual chance coastal floodplains that have additional hazards associated with storm waves. Base flood elevations derived from the coastal analyses are shown within this zone as static whole-foot elevations that apply throughout the zone.



Regulatory Floodway determined in Zone AE.

Figure 3: Map Legend for FIRM (continued)






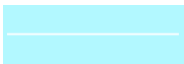



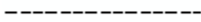

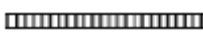

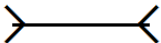
OTHER AREAS OF FLOOD HAZARD	
	Shaded Zone X: Areas of 0.2% annual chance flood hazards and areas of 1% annual chance flood hazards with average depths of less than 1 foot or with drainage areas less than 1 square mile.
	Future Conditions 1% Annual Chance Flood Hazard – Zone X: The flood insurance rate zone that corresponds to the 1% annual chance floodplains that are determined based on future-conditions hydrology. No base flood elevations or flood depths are shown within this zone.
	Zone X Protected by Accredited Levee: Areas protected by an accredited levee, dike or other flood control structures. See Notes to Users for important information.
OTHER AREAS	
	Zone D (Areas of Undetermined Flood Hazard): The flood insurance rate zone that corresponds to unstudied areas where flood hazards are undetermined, but possible
	Unshaded Zone X: Areas determined to be outside the 0.2% annual chance floodplain
FLOOD HAZARD AND OTHER BOUNDARY LINES	
	Flood Zone Boundary (white line)
	Limit of Study
	Jurisdiction Boundary
	Limit of Moderate Wave Action (LiMWA): Indicates the inland limit of the area affected by waves greater than 1.5 feet
GENERAL STRUCTURES	
 <i>Aqueduct Channel Culvert Storm Sewer</i>	Channel, Culvert, Aqueduct, or Storm Sewer
 <i>Dam Jetty Weir</i>	Dam, Jetty, Weir
	Levee, Dike or Floodwall accredited or provisionally accredited to provide protection from the 1% annual chance flood
	Levee, Dike or Floodwall not accredited to provide protection from the 1% annual chance flood.
 <i>Bridge</i>	Bridge

Figure 3: Map Legend for FIRM (continued)


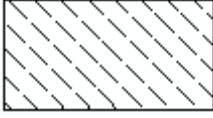

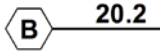

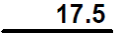
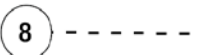


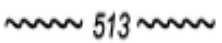









<p>COASTAL BARRIER RESOURCES SYSTEM (CBRS) AND OTHERWISE PROTECTED AREAS (OPA): <i>CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas. See Notes to Users for important information.</i></p>	
 CBRS AREA 09/30/2009	Coastal Barrier Resources System Area: Labels are shown to clarify where this area shares a boundary with an incorporated area or overlaps with the floodway.
 OTHERWISE PROTECTED AREA 09/30/2009	Otherwise Protected Area
<p>REFERENCE MARKERS</p>	
 22.0	River mile Markers
<p>CROSS SECTION & TRANSECT INFORMATION</p>	
 20.2	Lettered Cross Section with Regulatory Water Surface Elevation (BFE)
 21.1	Numbered Cross Section with Regulatory Water Surface Elevation (BFE)
 17.5	Unlettered Cross Section with Regulatory Water Surface Elevation (BFE)
 8	Coastal Transect
 	<p>Profile Baseline: Indicates the modeled flow path of a stream and is shown on FIRM panels for all valid studies with profiles or otherwise established base flood elevation.</p> <p>Coastal Transect Baseline: Used in the coastal flood hazard model to represent the 0.0-foot elevation contour and the starting point for the transect and the measuring point for the coastal mapping.</p>
 513	Base Flood Elevation Line (shown for flooding sources for which no cross sections or profile are available)
ZONE AE (EL 16)	Static Base Flood Elevation value (shown under zone label)
ZONE AO (DEPTH 2)	Zone designation with Depth
ZONE AO (DEPTH 2) (VEL 15 FPS)	Zone designation with Depth and Velocity

Figure 3: Map Legend for FIRM (continued)

BASE MAP FEATURES	
<i>Missouri Creek</i>	River, Stream or Other Hydrographic Feature
	Interstate Highway
	U.S. Highway
	State Highway
	County Highway
MAPLE LANE 	Street, Road, Avenue Name, or Private Drive if shown on Flood Profile
 <i>RAILROAD</i>	Railroad
	Horizontal Reference Grid Line
	Horizontal Reference Grid Ticks
	Secondary Grid Crosshairs
Land Grant	Name of Land Grant
7	Section Number
R. 43 W. T. 22 N.	Range, Township Number
4276^{000m}E	Horizontal Reference Grid Coordinates (UTM)
365000 FT	Horizontal Reference Grid Coordinates (State Plane)
80° 16' 52.5"	Corner Coordinates (Latitude, Longitude)

SECTION 2.0 – FLOODPLAIN MANAGEMENT APPLICATIONS

2.1 Floodplain Boundaries

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

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

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

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

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

2.2 Floodways

Encroachment on floodplains, such as structures and fill, reduces flood-carrying capacity, increases flood heights and velocities, and increases flood hazards in areas beyond the

encroachment itself. One aspect of floodplain management involves balancing the economic gain from floodplain development against the resulting increase in flood hazard.

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

To participate in the NFIP, Federal regulations require communities to limit increases caused by encroachment to 1.0 foot, provided that hazardous velocities are not produced. Regulations for Wisconsin require communities in Dane County to limit increases caused by encroachment to 0.0 feet and several communities have adopted additional restrictions. The floodways in this project are presented to local agencies as minimum standards that can be adopted directly or that can be used as a basis for additional floodway projects.

Figure 4: Floodway Schematic

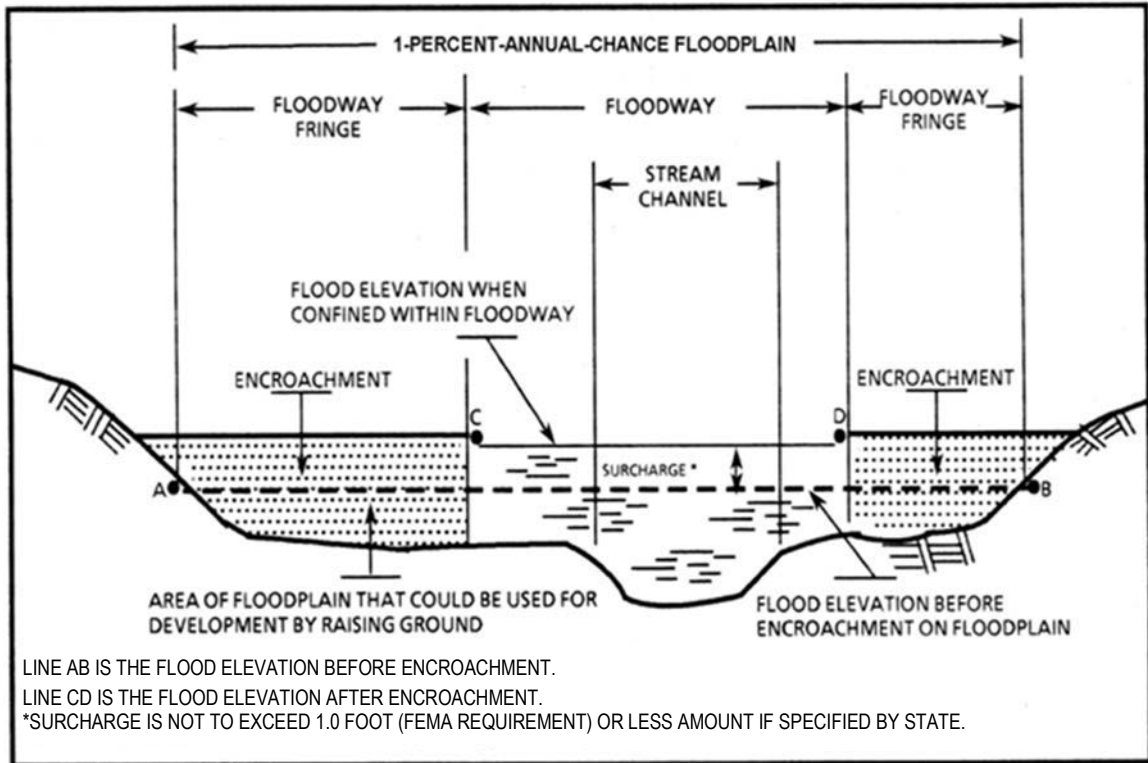


Table 2: Flooding Sources Included in this FIS Report

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Badfish Creek	Dane County Unincorporated Areas	Dane/Rock County boundary	Confluence with Oregon Branch Badfish Creek	7090002	5.5	*	N	A	11/01/2012
Badger Mill Creek	City of Madison, City of Verona, Dane County Unincorporated Areas	Mouth at Sugar River	CTH PD	7090004	6.8	*	Y	AE	12/31/2006
Badger Mill Creek Diversion Channel	City of Verona, Dane County Unincorporated Areas	Downstream confluence with Badger Mill Creek	Upstream confluence with Badger Mill Creek	7090004	0.6	*	Y	AE	12/31/2006
Black Earth Creek	Dane County Unincorporated Areas, Village of Black Earth, Village of Cross Plains, Village of Mazomanie	Mouth	Highway 14 at Cleveland Road	7070005	22.0	*	Y	AE	02/13/2015
Black Earth Creek	Dane County Unincorporated Areas	Highway 14 at Cleveland Road	Approximately 0.5 mile upstream of Highway 14 at Wayside Road	7070005	4.0	*	Y	AE	12/31/2006
Black Earth Creek Overland Flow Path 1	Dane County Unincorporated Areas, Village of Mazomanie	Mouth	Confluence with Black Earth Creek	7070005	1.0	*	Y	AE	02/13/2015
Black Earth Creek Overland Flow Path 2	Dane County Unincorporated Areas, Village of Mazomanie	Mouth	Confluence with Black Earth Creek	7070005	0.2	*	Y	AE	02/13/2015
Brewery Creek	Village of Cross Plains	Mouth at Black Earth Creek	650 feet upstream of West Brewery Road	7070005	0.8	*	Y	AE	12/31/2006

*Not calculated for this FIS project

Table 2: Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Brewery Creek	Village of Cross Plains	650 feet upstream of West Brewery Road	2,260 feet upstream of St. Francis Street	7070005	0.6	*	Y	AE	07/08/2011
Crawfish River	Dane County Unincorporated Areas	Norway Road	4,000 feet west of Norway Road	7090001	0.8	*	N	A	11/01/2012
Crystal Lake	Dane County Unincorporated Areas	Entire shoreline	Entire shoreline	7070005		1.2	N	AE	10/21/2014
Door Creek	City of Madison, Dane County Unincorporated Areas	Mouth at Lake Kegonsa	1,900 feet upstream of CTH TT	7090002	13.2	*	Y	AE	11/01/2012
Dorn Creek	Dane County Unincorporated Areas	Mouth at Sixmile Creek	U.S. Highway 12	7090002	9.6	*	Y	AE	11/01/2012
Dry Tributary to Badger Mill Creek	City of Madison, City of Verona, Dane County Unincorporated Areas	Mouth at Badger Mill Creek	Mid Town Road	7090004	5.6	*	Y	AE	12/31/2006
East Branch Badger Mill Creek	City of Madison	Mouth at Badger Mill Creek	CTH PD	7090004	0.5	*	Y	AE	12/31/2006
East Branch Starkweather Creek	City of Madison, Dane County Unincorporated Areas	Mouth at Starkweather Creek	250 feet upstream of I-39	7090002	3.2	*	Y	AE	04/01/2006
Enchanted Valley Creek	Dane County Unincorporated Areas, Village of Cross Plains	Mouth at Black Earth Creek	Military Road	7070005	0.7	*	Y	AE	07/01/1980
Fish Lake	Dane County Uninc. Areas	Entire shoreline	Entire shoreline	7070005		0.7	N	AE	10/21/2014
Greenway	Village of Oregon	Mouth at Oregon Branch Badfish Creek	E. Netherwood Street	7090002	0.9	*	Y	AE	12/01/1977

*Not calculated for this FIS project

Table 2: Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Koshkonong Creek	City of Sun Prairie, Dane County Unincorporated Areas, Village of Cambridge, Village of Rockdale	Downstream extent at the Dane County line	1,300 feet upstream of N. Musket Ridge Drive	7090002	41.2	*	Y	AE	11/01/2012
Leutens Creek	Dane County Unincorporated Areas	Mouth at the Yahara River	Spring Road	7090002	2.0	*	Y	AE	11/01/2012
Little Door Creek	Dane County Unincorporated Areas	Mouth at Door Creek	North Star Road	7090002	2.8	*	N	A	11/01/2012
Maunsha River	Dane County Unincorporated Areas, Village of Marshall	Eastern Dane County boundary	approximately 1 mile upstream of CTH TT	7090001	9.9	*	Y	AE	11/01/2012
Maunsha River	Dane County Unincorporated Areas, Village of Marshall	approximately 1 mile upstream of CTH TT	Norway Road	7090001	17.1	*	N	A	11/01/2012
Milwaukee Street Tributary	City of Madison, Dane County Unincorporated Areas	Mouth at East Branch Starkweather Creek	Milwaukee Street	7090002	0.7	*	Y	AE	05/01/2006
Mud Creek	Dane County Unincorporated Areas	Railroad embankment	Highway 12	7090002	1.9	*	Y	AE	12/01/2012
Mud Creek North Fork	Dane County Unincorporated Areas, Village of Deerfield	Railroad embankment	1,350 feet upstream of railroad embankment	7090002	0.3	*	Y	AE	12/01/2012
Mud Creek West Channel	Dane County Unincorporated Areas, Village of Deerfield	Mouth at Mud Creek	2,500 feet upstream of London Road	7090002	1.4	*	Y	AE	12/01/2012

*Not calculated for this FIS project

Table 2: Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Nine Springs Creek	City of Fitchburg, City of Madison, Dane County Unincorporated Areas	Mouth at Yahara River	CTH D	7090002	5.5	*	N	AE	04/01/1975
Oregon Branch Badfish Creek	Dane County Unincorporated Areas, Village of Oregon	Mouth at Badfish Creek	2,700 feet upstream of Florida Avenue	7090002	7.2	*	Y	AE	11/01/2012
Pennito Creek	City of Madison, Dane County Unincorporated Areas	Mouth at Unnamed Tributary to Lake Waubesa	2,550 feet upstream of Fankhauser Road	7090002	3.4	*	Y	AE	06/01/2003
Pheasant Branch	City of Middleton, Dane County Unincorporated Areas	Inlet to Lake Mendota	CTH K	7090002	7.3	*	Y	AE	08/21/2003
Portage Road Tributary	City of Madison, Dane County Unincorporated Areas	Mouth at West Branch Starkweather Creek	I-39	7090002	1.5	*	Y	AE	03/01/2010
Rice Lake	Dane County Unincorporated Areas	Southern lake shoreline	Craig Road	7090002		0.4	N	AE	11/01/2012
Rock River	Dane County Unincorporated Areas	Lake Koshkonong shoreline	Lake Koshkonong shoreline	7090002	1.8	*	N	AE	03/04/2013
Saunders Creek	Dane County Unincorporated Areas	Southern Dane County boundary	approximately 4,650 feet upstream of CTH W	7090002	9.6	*	Y	AE	11/01/2012
Sixmile Creek	Dane County Unincorporated Areas, Village of Waunakee	Lake Mendota	Kingsley Road	7090002	11.9	*	Y	AE	12/31/2006
South Fork to Pheasant Branch	City of Middleton	Mouth at Pheasant Branch	Eagle Drive	7090002	0.8	*	Y	AE	08/21/2003

*Not calculated for this FIS project

Table 2: Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Starkweather Creek	City of Madison, Dane County Unincorporated Areas	Lake Monona	East and West Branch Starkweather Creek confluence	7090002	1.8	*	Y	AE	04/01/2006
Sugar River	Dane County Unincorporated Areas	Badger Mill Creek	Highway 18	7090004	3.9	*	Y	AE	12/31/2006
Sugar River	Dane County Unincorporated Areas, Village of Belleville	1,200 feet downstream of CTH A	Badger Mill Creek	7090004	9.7	*	Y	AE	12/31/2006
Sugar River	Dane County Unincorporated Areas, Village of Belleville	100 feet upstream of State Highway 69	1,200 feet downstream of CTH A	7090004	5.7	*	Y	AE	02/01/2014
Sugar River	Dane County Unincorporated Areas, Village of Belleville	Dane County boundary	100 feet upstream of State Highway 69	7090004	1.1	*	Y	AE	12/31/2006
Token Creek	City of Sun Prairie, Dane County Unincorporated Areas, Village of DeForest	Mouth at the Yahara River	300 feet upstream of Egge Road	7090002	11.0	*	Y	AE	11/01/2012
Unnamed Tributary to Lake Koshkonong	Dane County Unincorporated Areas	Mouth at Lake Koshkonong	1,950 feet upstream of Hillside Road	7090002	1.3	*	Y	AE	11/01/2012
Unnamed Tributary to Lake Waubesa	City of Madison, City of Monona, Dane County Unincorporated Areas	Lake Waubesa	Millpond Road	7090002	3.6	*	Y	AE	06/01/2003
Unnamed Tributary to Oregon Branch Badfish Creek	Dane County Unincorporated Areas	Mouth at Oregon Branch Badfish Creek	Rutland-Dunn Town Line Road	7090002	0.9	*	Y	AE	10/08/2007

* Not calculated for this FIS project

Table 2: Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Unnamed Tributary to Sixmile Creek	Dane County Unincorporated Areas, Village of Waunakee	Mouth at Sixmile Creek	2,150 feet upstream of Lillian Street	7090002	1.2	*	Y	AE	10/01/2007
Unnamed Tributary to Yahara River	City of Stoughton, Dane County Unincorporated Areas	Mouth at the Yahara River	Reservoir upstream of Prairie Street	7090002	0.6	*	Y	AE	11/01/2012
Vermont Creek	Dane County Unincorporated Areas, Village of Black Earth	Mouth at Black Earth Creek	Just upstream of CTH KP	7070005	0.8	*	Y	AE	03/01/1979
West Branch Starkweather Creek	City of Madison, Dane County Unincorporated Areas	Mouth at Starkweather Creek	I-39	7090002	7.6	*	Y	AE	04/01/2006
Wisconsin River	Dane County Unincorporated Areas	Mouth	Just upstream of Prairie du Sac Dam	7070005	10.0	*	Y	AE	08/01/2013
Yahara River	City of Madison, Dane County Unincorporated Areas, Village of McFarland	Lake Mendota	500 feet downstream of Highway 51	7090002	18.8	*	N	AE	11/01/2012
Yahara River	City of Madison, Dane County Unincorporated Areas, Village of DeForest	Lake Waubesa	Lake Mendota	7090002	13.4	*	Y	AE	12/01/2003
Yahara River	City of Stoughton, Dane County Unincorporated Areas, Village of McFarland	Southern Dane County boundary	Lake Waubesa	7090002	20.0	*	Y	AE	11/01/2012

*Not calculated for this FIS project

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

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

2.3 Base Flood Elevations

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

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

2.4 Non-Encroachment Zones

Some States and communities use non-encroachment zones to manage floodplain development. While not a FEMA designated floodway, the non-encroachment zone represents that area around the stream that should be reserved to convey the 1% annual chance flood event.

Non-encroachment determinations may be delineated where it is not possible to delineate floodways because specific channel profiles with bridge and culvert geometry were not developed. Any non-encroachment determinations for this FIS project have been tabulated for selected cross sections and are shown in Table 25, "Flood Hazard and Non-Encroachment Data for Selected Streams."

2.5 Coastal Flood Hazard Areas

2.5.1 Water Elevations and the Effects of Waves

This section is not applicable to this FIS project.

Figure 5: Wave Runup Transect Schematic
[Not Applicable to this FIS Project]

2.5.2 Floodplain Boundaries and BFEs for Coastal Areas

This section is not applicable to this FIS project.

2.5.3 Coastal High Hazard Areas

This section is not applicable to this FIS project.

Figure 6: Coastal Transect Schematic [Not Applicable to this FIS Project]

2.5.4 Limit of Moderate Wave Action

This section is not applicable to this FIS project.

SECTION 3.0 – INSURANCE APPLICATIONS

3.1 National Flood Insurance Program Insurance Zones

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

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

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

Table 3: Flood Zone Designations by Community

Community	Flood Zone(s)
Village of Belleville	A, AE, X, X (shaded)
Village of Black Earth	A, AE, X, X (shaded)
Village of Blue Mounds ¹	X
Village of Brooklyn ¹	X
Village of Cambridge	AE, X, X (shaded)
Village of Cottage Grove	AE, X, X (shaded)
Village of Cross Plains	A, AE, X, X (shaded)
Village of Dane ¹	X
Dane County Unincorporated Areas	A, AE, X, X (shaded)

¹ No Special Flood Hazard Areas Identified in Dane County

Table 3: Flood Zone Designations by Community (continued)

Community	Flood Zone(s)
Village of Deerfield	AE, X, X (shaded)
Village of DeForest	AE, X, X (shaded)
City of Edgerton	AE, X, X (shaded)
City of Fitchburg	A, AE, X, X (shaded)
City of Madison	AE, X, X (shaded)
Village of Maple Bluff	AE, X, X
Village of Marshall	AE, X, X (shaded)
Village of Mazomanie	A, AE, X, X (shaded)
Village of McFarland	AE, X, X (shaded)
City of Middleton	AE, X, X (shaded)
City of Monona	AE, X, X (shaded)
Village of Mount Horeb	A, X
Village of Oregon	A, AE, X, X (shaded)
Village of Rockdale	AE, X, X (shaded)
Village of Shorewood Hills	AE, X, X (shaded)
City of Stoughton	A, AE, X, X (shaded)
City of Sun Prairie	A, AE, X, X (shaded)
City of Verona	A, AE, X, X (shaded)
Village of Waunakee	A, AE, X, X (shaded)

3.2 Coastal Barrier Resources System

The Coastal Barrier Resources Act (CBRA) of 1982 was established by Congress to create areas along the Atlantic and Gulf coasts and the Great Lakes, where restrictions for Federal financial assistance including flood insurance are prohibited. In 1990, Congress passed the Coastal Barrier Improvement Act (CBIA), which increased the extent of areas established by the CBRA and added “Otherwise Protected Areas” (OPA) to the system. These areas are collectively referred to as the John. H Chafee Coastal Barrier Resources System (CBRS). The CBRS boundaries that have been identified in the project area are in Table 4, “Coastal Barrier Resource System Information.”

Table 4: Coastal Barrier Resources System Information
[Not Applicable to this FIS Project]

SECTION 4.0 – AREA STUDIED

4.1 Basin Description

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

Table 5: Basin Characteristics
[Not Applicable to this FIS Project]

4.2 Principal Flood Problems

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

Table 6: Principal Flood Problems

Flooding Source	Description of Flood Problems
Badger Mill Creek	Floodplain is characterized by a wide agricultural alluvial valley near the confluence with Sugar River. Upstream toward the headwaters, the valley becomes narrower, and the watershed becomes increasingly urbanized. Flood magnitudes are aggravated by frozen, impervious ground accompanied by heavy rains or snowmelt, as well as ice jams blocking flow through hydraulic structures.
Badger Mill Creek Diversion Channel	Floodplain is characterized by flat alluvial plains near the confluence with Badger Mill Creek. Upstream toward the headwaters, the valley becomes exceedingly narrow and steep. Flood magnitudes are aggravated by frozen, impervious ground accompanied by heavy rains or snowmelt, as well as ice jams blocking flow through hydraulic structures.
Black Earth Creek	Known for its “Problem Flooding”, significant flooding dates back to 1875 and has occurred in 1882, 1910, 1954, 1959, 1960, 1993, 2000, 2001, 2008. Although each community along its reach has been impacted at different times, August 2001 appears to be the most significant where 24-hr rainfalls from 8 to 11 inches were recorded. 10,000 sandbags were used.
Brewery Creek	The residential area surrounding the stream is subject to flooding.
Enchanted Valley Creek	Small culvert capacity and high road embankment at Military Road causes higher than natural upstream flood elevations and floodwaters to be impounded in Bear Park and other undeveloped areas. This has the beneficial effect of attenuating downstream flood discharges.
Greenway	A series of undersized culverts at several locations constrict the flow and increase flood elevations.

Table 6: Principal Flood Problems (*continued*)

Flooding Source	Description of Flood Problems
Koshkonong Creek	Documented floods occurred in 1973, 1993, 1996, and 2007. With August 2007 being estimated as a 2% chance flood event. Floods in the upper portion of the basin are usually the result of locally heavy thunderstorms and have high peak flows with relatively small volumes. Flash flooding occurs in the Sun Prairie area and through the Village of Cambridge during any season of the year. Increasing flooding problems are expected as the basin continues to rapidly develop.
Oregon Branch Badfish Creek	A 72-inch corrugated metal conduit confines the stream from just west of Main Street under Brook Street to just east of Oak Street, a distance of 1,730 feet. At this time Barney Swamp and Lake area provide significant flood storage. Future development needs to retain that flood storage or events similar to May 1999 which flooded 18 homes in Oregon will be regularly repeated.
Sixmile Creek	The Village of Waunakee experiences high stages on Sixmile Creek, which have inundated parts of a City park. Actual flood problems are few because of the high rainfall-retention capacity of the drainage basin. Increasing urbanization as the village continues to develop, may fill flood-storage areas and increase impervious areas that could significantly affect flood peaks and increase flooding problems.
Sugar River	"Problem flooding" has occurred near Paoli
West Branch Starkweather Creek	On April 1, 1959, major flooding of 50 to 100 year interval occurred on the downstream side of State Route 51. Basements flooded in the North Marquette Street area and most of the Dane County Regional Airport flooded.
Wisconsin River	Four major floods, each with a 10-year frequency interval, occurred on the Wisconsin River in April 1920, April 1951, May 1960, and March 1973, in addition to a 25- to a 30-year flood in September 1938. Numerous reservoirs in the headwaters of the Wisconsin River are managed by the Wisconsin Valley Improvement Company to stabilize flow in the Wisconsin River. Floods occur during the spring due to rain and snowmelt, and during the summer and autumn due to heavy rain when available storage in the reservoirs is less than in spring.
Yahara River	The greatest flood discharges occur in the upper portion of the watershed, just downstream of De Forest. This is before any major flood storage areas such as wetlands and the large lakes. Most of the bridges have sufficient capacity to pass the 100-year flood with little backwater. However dams at the outlets of Lake Mendota and Lake Waubesa are known to increase upstream elevations. This does in turn provide for significant flood storage. Lake flooding on Mendota is regulated to reduce lake flooding on Monona and Waubesa, but flood damages to residences or infrastructure during major flooding can occur. This happened during the June 1, 2000 rainfall event that produced a Lake Mendota stage greater than the 500-Year level while Lakes Monona and Waubesa were less than the 50-Year level. This demonstrated Dane County's dam operation plan of storing water in Lake Mendota to prevent excess flooding in Lakes Monona and Waubesa. Preventing Lake Monona stages in excess of 846.81 is crucial to prevent flooding the Blooming Grove WWTP that would cause sewage overflows into the Yahara River. The Blooming Grove WWTP is located just downstream of the Highway 12-18 South Beltline and upstream of Lake Waubesa, adjacent to Upper Mud Lake on the west side of the Yahara River.

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

Table 7: Historic Flooding Elevations

Flooding Source	Location	Historic Peak (Feet NAVD88)	Event Date	Approximate Recurrence Interval (years)	Source of Data
West Branch Starkweather Creek	Downstream side of State Route 51	858.3	1959	50-100	Unknown
Lake Monona	Entire shoreline	847.07	1929	50	Unknown
Yahara River	Outlet of Lake Waubesa	846.5	1950	50	USGS gage
Yahara River	Outlet of Lake Waubesa	846.0	1959	25	USGS gage

4.3 Non-Levee Flood Protection Measures

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

Table 8: Non-Levee Flood Protection Measures

[Not Applicable to this FIS Project]

4.4 Levees

This section is not applicable to this FIS project.

Table 9: Levees

[Not Applicable to this FIS Project]

SECTION 5.0 – ENGINEERING METHODS

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

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

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

5.1 Hydrologic Analyses

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

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

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Badger Mill Creek	Confluence with Sugar River	32.2	1,648	*	2,698	3,496	4,860
Badger Mill Creek	Confluence with Dry Tributary to Badger Mill Creek	31.7	1,623	*	2,663	3,437	4,793
Badger Mill Creek	At Bruce Street	20.1	1,450	*	2,361	3,073	4,346
Badger Mill Creek	Downstream of divergence of Badger Mill Creek Diversion Channel	14.4	918	*	1,244	1,746	2,508
Badger Mill Creek	At Nesbitt Road	9.7	617	*	1,241	1,723	2,413
Badger Mill Creek	Confluence with East Branch Badger Mill Creek	6.9	427	*	835	1,130	1,556
Badger Mill Creek Diversion Channel	Confluence with Badger Mill Creek	*	47	*	311	457	664
Black Earth Creek	At Iowa / Dane County boundary	104	2,110	2,840	3,210	4,200	4,790
Black Earth Creek	In Mazomanie, 0.47 mile downstream of Bridge Street, below convergence of split flow	101	2,110	2,840	3,210	4,200	4,790
Black Earth Creek	At Bridge Street and CTH Y, main channel flow below divergence	*	1,961	2,402	2,589	3,119	3,389

*Not calculated for this FIS project

Table 10: Summary of Discharges (continued)

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Black Earth Creek	Combined flow at Hudson Road below railroad split flow convergence	99	2,110	2,840	3,210	4,200	4,790
Black Earth Creek	Main channel flow at the divergence into Halfway Prairie Creek	*	1,349	1,749	2,033	2,572	2,906
Black Earth Creek	Confluence with Halfway Prairie Creek	99	2,110	2,840	3,210	4,200	4,790
Black Earth Creek	Confluence with Vermont Creek	64	1,520	2,045	2,320	3,000	3,460
Black Earth Creek	Confluence with Garfoot Creek	40	945	1,055	1,140	1,800	2,146
Black Earth Creek	Confluence with Brewery Creek	26	690	925	1,050	1,350	1,570
Black Earth Creek	Confluence with Unnamed Tributary 0.15 mile upstream of N. Birch Trail	8.2	340	465	520	700	780
Black Earth Creek	At U.S. Highway 14 (0.25 mile upstream of Rocky Dell Road)	5.8	228	305	352	440	570
Black Earth Creek	At Twin Valley Road	3.3	110	*	179	230	304
Black Earth Creek	Approximately 1.3 miles upstream of Twin Valley Road	2.3	46	*	75	97	132

*Not calculated for this FIS project

Table 10: Summary of Discharges (continued)

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Black Earth Creek Overland Flow Path 1	Secondary channel portion of divergence at Bridge Street and CTH Y	*	149	438	621	1,081	1,401
Black Earth Creek Overland Flow Path 2	Secondary channel above railroad, at the divergence into Halfway Prairie Creek	*	761	1,091	1,177	1,628	1,884
Brewery Creek	Confluence with Black Earth Creek	8.0	470	*	880	1,070	1,600
Door Creek	Just upstream of I-39/90	29.0	537	823	1,195	1,625	2,804
Door Creek	Confluence with Little Door Creek	27.7	815	1,232	1,787	2,271	3,515
Door Creek	Confluence with tributary just north of Highway 12	18.1	491	737	1,015	1,275	1,983
Door Creek	At tributary 1/3 mile upstream of Hope Road	17.2	544	841	1,183	1,494	2,310
Door Creek	At tributary 2/3 mile upstream of Hope Road	15.2	477	735	1,046	1,343	2,093
Door Creek	At tributary draining western Cottage Grove	12.6	370	575	833	1,066	1,637
Door Creek	Just downstream of Vilas Hope Road	7.4	176	231	302	367	614
Door Creek	2000' downstream of CTH BB past Pennito Creek	6	155	182	236	312	511
Door Creek	At retention pond approximately 3/4 mile upstream of CTH BB	6	204	307	447	572	921

*Not calculated for this FIS project

Table 10: Summary of Discharges (continued)

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Door Creek	Just upstream of Gaston Rd.	3	196	278	360	433	613
Door Creek	1950' upstream of CTH TT	0.7	43	52	56	60	63
Dorn Creek	Halfway between CTH Q and CTH K at tributary	10	219	356	525	701	1,192
Dorn Creek	Eastern crossing of Meffert Road	6.7	181	299	456	613	1,018
Dorn Creek	Western crossing of Meffert Road	4.7	129	214	323	436	716
Dorn Creek	At eastern Fisher Road crossing	3.8	102	173	265	359	590
Dorn Creek	At Highway 12	1.8	81	129	185	236	359
Dry Tributary to Badger Mill Creek	Confluence with Badger Mill Creek	11.2	765	*	1,275	1,701	2,436
Dry Tributary to Badger Mill Creek	At Meister Drive	9.2	637	*	1,052	1,384	2,050
Dry Tributary to Badger Mill Creek	At Shady Oak Lane	7.5	536	*	877	1,133	1,730
East Branch Badger Mill Creek	Confluence with Badger Mill Creek	2.1	338	*	495	609	779
East Branch Starkweather Creek	Confluence with Starkweather Creek	8.2	515	*	726	868	1,162
East Branch Starkweather Creek	At Milwaukee Street	8.0	503	*	712	851	1,142

*Not calculated for this FIS project

Table 10: Summary of Discharges (continued)

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
East Branch Starkweather Creek	At Service Road	6.1	446	*	645	776	1,162
East Branch Starkweather Creek	At railroad	5.4	449	*	673	828	1,135
East Branch Starkweather Creek	At Lien Road	4.1	517	*	797	976	1,289
East Branch Starkweather Creek	At I-39	3.1	385	*	592	723	954
Enchanted Valley Creek	Confluence with Black Earth Creek	2	140	*	220	270	500
Enchanted Valley Creek	Upstream corporate limits of Cross Plains	1.8	215	*	410	520	830
Greenway	Confluence with Oregon Branch Badfish Creek	0.5	66	*	100	114	131
Greenway	Approximately 0.5 mile upstream of the confluence	0.4	50	*	85	101	115
Greenway	Approximately 0.8 mile upstream of the confluence	0.4	34	*	70	88	99
Koshkonong Creek	Halfway between Rockdale Road and STH 106	166.6	1,480	2,180	2,738	3,286	4,916
Koshkonong Creek	At West Adams Street	144.3	1,432	2,057	2,578	3,114	4,833
Koshkonong Creek	2200' upstream of Highway 18	132.0	1,240	1,855	2,351	2,873	4,495

*Not calculated for this FIS project

Table 10: Summary of Discharges (continued)

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Koshkonong Creek	1/2 mile upstream of Britzke Road	118.2	1,162	1,742	2,206	2,695	4,242
Koshkonong Creek	1 mile downstream of Mud Creek	104.0	1,034	1,560	1,968	2,421	3,828
Koshkonong Creek	Confluence with Mud Creek	94.6	986	1,483	1,814	2,234	3,563
Koshkonong Creek	1 mile downstream of STH 73	70.0	800	1,205	1,427	1,589	2,100
Koshkonong Creek	4700' upstream of North Jargo Road	55.0	771	1,140	1,323	1,452	1,892
Koshkonong Creek	1/4 mile upstream of Uphoff Road	39.0	677	980	1,109	1,205	1,546
Koshkonong Creek	3/4 mile upstream of CTH BB	33.9	855	1,169	1,325	1,502	2,482
Koshkonong Creek	At I-94	28.1	851	1,248	1,507	1,738	2,704
Koshkonong Creek	3/4 mile downstream of CTH N	25.7	790	1,153	1,367	1,616	2,510
Koshkonong Creek	1/2 mile upstream of CTH N	20.4	649	940	1,155	1,414	2,093
Koshkonong Creek	1/6 mile downstream of Kelley Road	17.8	590	826	1,074	1,289	1,877
Koshkonong Creek	1/4 mile southwest of Sun Prairie High School	4.5	306	337	625	843	1,270
Koshkonong Creek	Main Street in Sun Prairie	1.5	107	165	222	300	453

Table 10: Summary of Discharges (continued)

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Leutens Creek	Confluence with tributary 1/4 mile upstream of CTH N	10.9	416	661	808	1,000	1,511
Leutens Creek	At residence 1/2 mile downstream of Spring Road	4.7	135	251	320	407	619
Mauneshia River	Confluence with Stony Brook	119.5	1,520	2,350	3,070	3,730	5,750
Mauneshia River	At tributary approximately 340' downstream of Henricks Street	91.3	1,240	1,820	2,320	2,780	3,990
Mauneshia River	At Waterloo Spur railroad	87.4	1,120	1,650	2,100	2,500	3,760
Mauneshia River	At tributary approximately 4300' upstream of Dane - Jefferson county line	84.9	1,050	1,540	1,970	2,370	3,720
Mauneshia River	At tributary approximately 2300' downstream of West Waterloo Road	81.5	940	1,430	1,890	2,330	3,670
Mauneshia River	Confluence with Spring Creek	77.6	840	1,390	1,850	2,280	3,600
Mauneshia River	At Marshall Dam	68.6	790	1,310	1,750	2,160	3,400
Mauneshia River	At tributary upstream of Waterloo Spur railroad	63.3	760	1,290	1,710	2,110	3,300
Mauneshia River	Approximately 3700' upstream of CTH TT	56.6	730	1,260	1,680	2,080	3,260
Milwaukee Street Tributary	Confluence with East Branch of Starkweather Creek	1.9	332	*	474	565	714

*Not calculated for this FIS project

Table 10: Summary of Discharges (continued)

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Mud Creek	Confluence with Mud Creek West Channel	21.1	*	*	*	2,711	*
Mud Creek	Upstream of Mud Creek West Channel	19.7	*	*	*	2,536	*
Mud Creek North Fork	At railroad	0.2	*	*	*	195	*
Mud Creek West Channel	Approximately 2300' downstream of London Rd.	1.2	*	*	*	480	*
Mud Creek West Channel	At London Road	0.2	*	*	*	130	*
Nine Springs Creek	At Syene Road	6.6	250	*	490	650	1,210
Oregon Branch Badfish Creek	At tributary 1900' downstream of STH 138	29.6	338	566	713	898	1,387
Oregon Branch Badfish Creek	At tributary 3600' downstream of Highway 14	23.9	276	451	609	782	1,178
Oregon Branch Badfish Creek	At tributary 1200' downstream of Highway 14	20.4	225	360	494	637	959
Oregon Branch Badfish Creek	At culvert outlet at Oak St.	12.3	134	188	211	225	350
Oregon Branch Badfish Creek	At culvert inlet at Main St.	11.1	112	153	163	168	330
Oregon Branch Badfish Creek	Approximately 1100' upstream of North Burr Oak Avenue	10.8	108	168	212	256	380

*Not calculated for this FIS project

Table 10: Summary of Discharges (continued)

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Oregon Branch Badfish Creek	Approximately 0.5 mile upstream of North Burr Oak Avenue	9.2	55	88	115	140	303
Pennito Creek	Confluence with Unnamed Tributary to Lake Waubesa	3.9	270	*	390	500	850
Pennito Creek	At Interstate 90	1.8	490	*	690	820	1,150
Pennito Creek	At County Highway AB	0.6	160	*	230	280	400
Pheasant Branch	Confluence with Lake Mendota	23.0	610	*	1,052	1,304	2,108
Pheasant Branch	At USGS gage at Middleton	17.9	443	*	830	932	1,215
Pheasant Branch	At stream mile 3.62	11.9	635	*	1,180	1,450	1,970
Portage Road Tributary	Confluence with West Branch Starkweather Creek	1.5	308	*	450	539	691
Saunders Creek	At Dane-Rock County line	26.1	578	914	1,184	1,443	2,144
Saunders Creek	At tributary 0.3 mile upstream of STH 106	20.3	661	1,006	1,291	1,535	2,171
Saunders Creek	At tributary 0.3 mile downstream of Willow Dr.	12.7	433	741	924	1,159	1,760
Saunders Creek	At Willow Drive	11.1	382	658	823	1,036	1,568
Saunders Creek	At limit of detailed study	8	342	571	717	899	1,329
Sixmile Creek	Confluence with Lake Mendota	45.9	1,389	*	2,190	2,731	3,626
Sixmile Creek	At Division Street	36.6	1,022	*	1,561	1,888	2,432

*Not calculated for this FIS project

Table 10: Summary of Discharges (continued)

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Sixmile Creek	At State Highway 113	34.1	895	*	1,363	1,650	2,141
Sixmile Creek	At Kingsley Road	22.6	418	*	713	1,043	1,506
South Fork to Pheasant Branch	Between the two Deming Way crossings, north of US Highway 14	6.3	258	*	438	448	657
South Fork to Pheasant Branch	At US Highway 14, near Eagle Drive intersection	5.9	254	*	407	412	624
Starkweather Creek	Halfway between Atwood Ave. and railroad	20.5	867	*	1,209	1,433	1,848
Starkweather Creek	Confluence with East and West Branch Starkweather	20.4	863	*	1,204	1,427	1,840
Sugar River	At Dane - Green county boundary	173.4	4,026	*	6,331	8,000	11,890
Sugar River	At State Highway 69 bridge	172.0	3,600	*	5,900	8,000	10,500
Sugar River	At upstream side of confluence with West Branch Sugar River	102.0	2,643	*	4,261	4,750	7,100
Sugar River	At upstream side of State Highway 69 in Paoli (cross section AP)	89.0	3,919	*	4,000	4,100	7,100
Sugar River	Above confluence with Badger Mill Creek	46.6	533	*	1,541	2,255	3,566
Sugar River	At Valley Road	44.7	541	*	1,586	2,335	3,616
Sugar River	At U.S. Highway 18	36.3	537	*	1,398	1,984	3,102

*Not calculated for this FIS project

Table 10: Summary of Discharges (continued)

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Token Creek	Mouth at Yahara River	28.5	440	605	708	833	1,602
Token Creek	At I-39/90/94	24.3	448	581	673	785	2,050
Token Creek	At STH 19	22.2	783	1,342	1,704	2,135	3,181
Token Creek	Approximately 1 mile upstream of Portage Rd.	13.4	520	857	1,073	1,332	1,961
Token Creek	At CTH C	11	439	716	894	1,105	1,620
Token Creek	At Egge Road	8.8	359	582	724	894	1,305
Unnamed Tributary to Lake Koshkonong	At Lake Koshkonong	3.3	360	485	596	746	1,033
Unnamed Tributary to Lake Waubesa	Confluence with Upper Mud Lake	6.8	630	*	570	1,030	1,500
Unnamed Tributary to Lake Waubesa	Confluence with Pennito Creek	6.1	580	*	810	950	1,350
Unnamed Tributary to Lake Waubesa	At Interstate 90	0.9	210	*	300	350	460
Unnamed Tributary to Oregon Branch Badfish Creek	Upstream of confluence with Oregon Branch	1.4	*	*	*	147	*
Unnamed Tributary to Sixmile Creek	Approximately 140' downstream of Moravian Valley Road	1.7	391	*	665	818	1,127
Unnamed Tributary to Sixmile Creek	Approximately 2120' upstream of Lillian Street	0.7	255	*	421	505	673

*Not calculated for this FIS project

Table 10: Summary of Discharges (continued)

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Unnamed Tributary to Yahara River	Downstream of detention basin at STH 138 and W. Milwaukee Street	0.9	207	276	336	425	576
Vermont Creek	Confluence with Black Earth Creek	14.9	670	*	1,380	1,840	3,500
West Branch Starkweather Creek	At pedestrian bridge downstream of Darbo Dr.	12.2	352	*	479	562	695
West Branch Starkweather Creek	At Aberg Avenue	11.2	309	*	419	490	604
West Branch Starkweather Creek	At Anderson Street	9.1	463	*	665	785	972
West Branch Starkweather Creek	At railroad	7.5	186	*	261	305	378
West Branch Starkweather Creek	3,000' upstream of Government Road	6.6	186	*	218	240	282
West Branch Starkweather Creek	At western runway culvert	6.1	189	*	226	252	299
West Branch Starkweather Creek	At airport service road	6.1	193	*	249	285	345
West Branch Starkweather Creek	At eastern runway culvert	5.7	212	*	276	318	436
West Branch Starkweather Creek	At U.S. 51	5.2	234	*	322	380	474

*Not calculated for this FIS project

Table 10: Summary of Discharges (continued)

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
West Branch Starkweather Creek	At Hanson Road	1.7	164	*	227	262	327
Wisconsin River	At Prairie Du Sac USGS Gaging Station 05406000	9,180	62,000	69,000	80,000	86,000	100,000
Wisconsin River	Upstream of Prairie Du Sac Dam	9,175	62,000	*	80,000	86,000	111,000
Yahara River	At tributary near CTH N	386	914	1,383	1,713	2,115	3,086
Yahara River	At Dunkirk Dam	372	786	1,165	1,416	1,737	2,502
Yahara River	At Fourth Street Bridge	367	720	969	1,119	1,304	1,754
Yahara River	At Lake Kogonsa outlet	344	720	953	1,078	1,232	1,661
Yahara River	At Lake Waubesa outlet	286	731	894	976	1,073	1,337
Yahara River	At STH 113	77.4	903	1,418	1,727	2,120	3,301
Yahara River	At STH 19	43.1	1,123	1,825	2,286	2,842	4,212
Yahara River	At I-39/90/94	37	920	1,513	1,903	2,376	3,541
Yahara River	At Windsor Road	28.1	696	1,130	1,420	1,773	2,651
Yahara River	At South Street	22.2	507	818	1,021	1,268	1,888
Yahara River	At E. North Street	19.9	464	756	946	1,174	1,734
Yahara River	At E. Yahara Road	16.7	378	616	772	960	1,418
Yahara River	At U.S. Highway 51	4.2	124	202	254	315	466

*Not calculated for this FIS project

Figure 7: Frequency Discharge-Drainage Area Curves
[Not Applicable to this FIS Project]

Table 11: Summary of Non-Coastal Stillwater Elevations

Flooding Source	Location	Elevations (feet NAVD88)				
		10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Crystal Lake	Entire shoreline	874.2	874.3	874.5	874.6	874.9
Fish Lake	Entire shoreline	865.9	867.2	868.4	869.6	872.2
Lake Mendota	Entire shoreline	851.0	*	852.1	852.6	853.6
Lake Monona	Entire shoreline	846.2	*	847.1	847.5	848.4
Lake Waubesa	Entire shoreline	845.8	*	846.5	846.8	847.4
Mud Lake	Entire shoreline	865.9	867.2	868.4	869.6	872.2
Rice Lake	Entire shoreline	825.4	825.8	826.0	826.1	826.4

*Not calculated for this FIS project

Table 12: Stream Gage Information used to Determine Discharges

Flooding Source	Gage Identifier	Agency that Maintains Gage	Site Name	Drainage Area (Square Miles)	Period of Record	
					From	To
Black Earth Creek	05406500	USGS	Black Earth Creek at Black Earth	46	1954	Present
Wisconsin River	05407000	USGS	Wisconsin River at Muscoda	10,400	10/01/1913	Present
Wisconsin River	05406000	USGS	Wisconsin River at Prairie du Sac	9,180	06/18/1944	12/05/1953
Yahara River	05427718	USGS	Yahara River at Windsor	74	1976-1981 1989	Present
Yahara River	05429500	USGS	Yahara River near Mc Farland	327	1930	Present
Yahara River	05430175	USGS	Yahara River near Fulton	518	1977	Present

5.2 Hydraulic Analyses

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

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

A summary of the methods used in hydraulic analyses performed for this project is provided in Table 13. Roughness coefficients are provided in Table 14. Roughness coefficients are values representing the frictional resistance water experiences when passing overland or through a channel. They are used in the calculations to determine water surface elevations. Greater detail (including assumptions, analysis, and results) is available in the archived project documentation.

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Badfish Creek	Dane/Rock County boundary	Confluence with Oregon Branch Badfish Creek	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	A	
Badger Mill Creek	Mouth at Sugar River	CTH PD	HEC-HMS 2.2.2	HEC-RAS 3.1.1	12/31/2006	AE	Floodplain storage was taken into account where permanent water bodies existed, such as ponds, lakes, or manmade detention structures, or where there were significant wetlands identified in the Wisconsin Wetland Inventory.
Badger Mill Creek Diversion Channel	Downstream confluence with Badger Mill Creek	Upstream confluence with Badger Mill Creek	HEC-HMS 2.2.2	HEC-RAS 3.1.1	12/31/2006	AE	
Black Earth Creek	Mouth at Blue Mounds Creek	Highway 14 at Cleveland Road	log-Pearson Type III Frequency Analysis	HEC-RAS 4.1	02/13/2015	AE	log-Pearson Type III analysis of 32 years (1954 to 1985) of annual flood peaks at Black Earth Creek at the Black Earth gaging station. Weighted skew values of -0.2 and 0.14 were used.
Black Earth Creek	Highway 14 at Cleveland Road	Approximately 0.5 mile upstream of Highway 14 at Wayside Road	HEC-HMS 2.2.2	HEC-RAS 3.1.1	12/31/2006	AE	Floodplain storage was taken into account where permanent water bodies existed, such as ponds, lakes, or manmade detention structures, or where there were significant wetlands identified in the Wisconsin Wetland Inventory.
Black Earth Creek Overland Flow Path 1	Mouth at Black Earth Creek	confluence with Black Earth Creek	log-Pearson Type III Frequency Analysis	HEC-RAS 4.1	02/13/2015	AE	
Black Earth Creek Overland Flow Path 2	Mouth at Black Earth Creek	confluence with Black Earth Creek	log-Pearson Type III Frequency Analysis	HEC-RAS 4.1	02/13/2015	AE	
Brewery Creek	Mouth at Black Earth Creek	650 feet upstream of West Brewery Road	Discharge-Frequency Curves	HEC-RAS 3.1.1	12/31/2006	AE	
Brewery Creek	650 feet upstream of West Brewery Road	2,260 feet upstream of St. Francis Street	Discharge-Frequency Curves	HEC-RAS 4.1	07/08/2011	AE	

Table 13: Summary of Hydrologic and Hydraulic Analyses (continued)

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Crawfish River	Norway Road	4,000 feet west of Norway Road	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	A	
Crystal Lake	Entire shoreline	Entire shoreline	HEC-HMS 3.5	N/A	10/21/2014	AE	Stillwater elevation determined in HEC-HMS
Door Creek	Mouth at Lake Kegonsa	1,900 feet upstream of CTH TT	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	AE	Floodplain storage was taken into account where permanent water bodies existed, such as ponds, lakes, or manmade detention structures, or where there were significant wetlands identified in the Wisconsin Wetland Inventory.
Dorn Creek	Mouth at Sixmile Creek	U.S. Highway 12	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	AE	Floodplain storage was taken into account where permanent water bodies existed, such as ponds, lakes, or manmade detention structures, or where there were significant wetlands identified in the Wisconsin Wetland Inventory.
Dry Tributary to Badger Mill Creek	Mouth at Badger Mill Creek	Mid Town Road	HEC-HMS 2.2.2	HEC-RAS 3.1.1	12/31/2006	AE	
East Branch Badger Mill Creek	Mouth at Badger Mill Creek	CTH PD	HEC-HMS 2.2.2	HEC-RAS 4.1	12/31/2006	AE	
East Branch Starkweather Creek	Mouth at Starkweather Creek	250 feet upstream of I-39	HEC-HMS 3.5	HEC-RAS 4.1	04/01/2006	AE	
Enchanted Valley Creek	Mouth at Black Earth Creek	Military Road	1971 Regression Equations	E-431	07/01/1980	AE	Flood-routing analysis was necessary to account for floodwater storage in Bear Park that is caused by the relatively small culvert capacity at Military Road.
Fish Lake	Entire shoreline	Entire shoreline	HEC-HMS 3.5	N/A	10/21/2014	AE	Stillwater elevation determined in HEC-HMS
Greenway	Mouth at Oregon Branch Badfish Creek	E. Netherwood Street	Illinois Urban Drainage-Area Simulator	HEC-2 & E-431	12/01/1977	AE	ILLUDAS uses storm-rainfall and physical-basin parameters to predict storm runoff from both paved and grassed areas. Detention storage can be computed where needed and was useful when considering the effects of Barney Swamp and the marsh west of Main Street on peak discharges.

Table 13: Summary of Hydrologic and Hydraulic Analyses (continued)

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Koshkonong Creek	Downstream extent at the Dane County line	1,300 feet upstream of N. Musket Ridge Drive	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	AE	Floodplain storage was taken into account where permanent water bodies existed, such as ponds, lakes, or manmade detention structures, or where there were significant wetlands identified in the Wisconsin Wetland Inventory.
Leutens Creek	Mouth at the Yahara River	Spring Road	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	AE	Floodplain storage was taken into account where permanent water bodies existed, such as ponds, lakes, or manmade detention structures, or where there were significant wetlands identified in the Wisconsin Wetland Inventory.
Little Door Creek	Mouth at Door Creek	North Star Road	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	A	
Maunsha River	Eastern Dane County boundary	approximately 1 mile upstream of CTH TT	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	AE	Floodplain storage was taken into account where permanent water bodies existed, such as ponds, lakes, or manmade detention structures, or where there were significant wetlands identified in the Wisconsin Wetland Inventory.
Maunsha River	approximately 1 mile upstream of CTH TT	Norway Road	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	A	
Milwaukee Street Tributary	Mouth at East Branch Starkweather Creek	Milwaukee Street	HEC-HMS 2.2.2	HEC-RAS 3.1.1	05/01/2006	AE	
Mud Creek	Railroad embankment	Highway 12	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	AE	
Mud Creek North Fork	Railroad embankment	1,350 feet upstream of railroad embankment	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	AE	
Mud Creek West Channel	Mouth at Mud Creek	2,500 feet upstream of London Road	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	AE	
Nine Springs Creek	Mouth at Yahara River	CTH D	Discharge-Frequency Curves	E-431	04/01/1975	AE	

Table 13: Summary of Hydrologic and Hydraulic Analyses (continued)

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Oregon Branch Badfish Creek	Mouth at Badfish Creek	2,700 feet upstream of Florida Avenue	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	AE	Floodplain storage was taken into account where permanent water bodies existed, such as ponds, lakes, or manmade detention structures, or where there were significant wetlands identified in the Wisconsin Wetland Inventory.
Pennito Creek	Mouth at Unnamed Tributary to Lake Waubesa	2,550 feet upstream of Fankhauser Road	HEC-HMS 2.2.2	HEC-RAS 3.1.1	06/01/2003	AE	
Pheasant Branch	Inlet to Lake Mendota	CTH K	XP-SWMM	HEC-RAS 3.1.1	08/21/2003	AE	The hydrologic study incorporates a 20 feet wide by 2000 feet long wetland storage area
Portage Road Tributary	Mouth at West Branch Starkweather Creek	I-39	HEC-HMS 3.5	HEC-RAS 4.1	03/01/2010	AE	
Rice Lake	Southern lake shoreline	Craig Road	HEC-HMS 3.5	-	11/01/2012	AE	
Rock River	Wisconsin State line	Horicon Marsh	HEC-HMS 3.1	HEC-RAS 4.0	03/04/2013	AE	Flood storage was taken into account at Lake Koshkonong, Sinissippi Lake, and the Horicon Marsh.
Saunders Creek	Southern Dane County boundary	approximately 4,650 feet upstream of CTH W	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	AE	Floodplain storage was taken into account where permanent water bodies existed, such as ponds, lakes, or manmade detention structures, or where there were significant wetlands identified in the Wisconsin Wetland Inventory.
Sixmile Creek	Lake Mendota	Kingsley Road	HEC-HMS 2.2.2	HEC-RAS 3.1.1	12/31/2006	AE	Floodplain storage was taken into account where permanent water bodies existed, such as ponds, lakes, or manmade detention structures, or where there were significant wetlands identified in the Wisconsin Wetland Inventory.
South Fork to Pheasant Branch	Mouth at Pheasant Branch	Eagle Drive	XP-SWMM	HEC-RAS 3.1.1	08/21/2003	AE	The hydrologic study incorporates a 20 feet wide by 2000 feet long wetland storage area
Starkweather Creek	Lake Monona	East and West Branch Starkweather Creek confluence	HEC-HMS 3.5	HEC-RAS 4.1	04/01/2006	AE	

Table 13: Summary of Hydrologic and Hydraulic Analyses (continued)

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Sugar River	Badger Mill Creek	Highway 18	HEC-HMS 2.2.2	HEC-RAS 3.1.1	12/31/2006	AE	CNs were adjusted to match the Log Pearson Type III 100-year discharge at streamgage 5435900.
Sugar River	1,200 feet downstream of CTH A	Badger Mill Creek	1971 Regression Equations	HEC-RAS 3.1.1	12/31/2006	AE	
Sugar River	100 feet upstream of State Highway 69	1,200 feet downstream of CTH A	1971 Regression Equations	HEC-RAS 4.1	02/01/2014	AE	
Sugar River	Dane County boundary	100 feet upstream of State Highway 69	1971 Regression Equations	HEC-RAS 3.1.1	12/31/2006	AE	
Token Creek	Mouth at the Yahara River	300 feet upstream of Egge Road	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	AE	Floodplain storage was taken into account where permanent water bodies existed, such as ponds, lakes, or manmade detention structures, or where there were significant wetlands identified in the Wisconsin Wetland Inventory.
Unnamed Tributary to Lake Koshkonong	Mouth at Lake Koshkonong	1,950 feet upstream of Hillside Road	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	AE	Floodplain storage was taken into account where permanent water bodies existed, such as ponds, lakes, or manmade detention structures, or where there were significant wetlands identified in the Wisconsin Wetland Inventory.
Unnamed Tributary to Lake Waubesa	Lake Waubesa	Millpond Road	HEC-HMS 2.2.2	HEC-RAS 3.1.1	06/01/2003	AE	
Unnamed Tributary to Oregon Branch Badfish Creek	Mouth at Oregon Branch Badfish Creek	Rutland-Dunn Town Line Road	HEC-HMS 2.2.2	HEC-RAS 3.1.1	10/08/2007	AE	
Unnamed Tributary to Sixmile Creek	Mouth at Sixmile Creek	2,150 feet upstream of Lillian Street	TR-20	HEC-RAS 3.1.3	10/01/2007	AE	
Unnamed Tributary to Yahara River	Mouth at the Yahara River	Reservoir upstream of Prairie Street	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	AE	
Vermont Creek	Mouth at Black Earth Creek	Just upstream of CTH KP	Discharge-Frequency Curves	E-431	03/01/1979	AE	

Table 13: Summary of Hydrologic and Hydraulic Analyses (continued)

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
West Branch Starkweather Creek	Mouth at Starkweather Creek	I-39	HEC-HMS 3.5	HEC-RAS 4.1	04/01/2006	AE	
Wisconsin River	Mouth	Just upstream of Prairie du Sac Dam	Discharge-Frequency Curves	HEC-RAS 4.1	11/01/1980 08/01/2013	AE	Due to the large number of dams and significant overbank storage, USGS developed a streamflow model in November 1980. Portions of the floodway widths extend beyond the county boundary.
Yahara River	Lake Mendota	500 feet downstream of Highway 51	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	AE	CNs and lag times were optimized at three locations to match observations during the rainfall event in early June of 2000. The target observations include the recorded peak lake stage at Lake Kegonsa, and peak discharges at streamgages 05430150 on Badfish Creek and 05430175 on the Yahara River near Fulton.
Yahara River	Lake Waubesa	Lake Mendota	HEC-HMS 2.2.2	-	12/01/2003	AE	Calibration was made to the lake stages experienced on Lake Mendota, Lake Monona, and Lake Waubesa during the 1996 and 2000 flood events.
Yahara River	Southern Dane County boundary	Lake Waubesa	HEC-HMS 3.5	HEC-RAS 4.1	11/01/2012	AE	Calibration was made to the lake stages experienced on Lake Mendota, Lake Monona, and Lake Waubesa during the 1996 and 2000 flood events.

Table 14: Roughness Coefficients

Flooding Source	Channel “n”	Overbank “n”
Black Earth Creek	0.040-0.050	0.040-0.120
Brewery Creek	0.030-0.050	0.040-0.065
Door Creek	0.030-0.045	0.040-0.100
Dorn Creek	0.035-0.055	0.045-0.120
East Branch Starkweather Creek	0.035-0.065	0.045-0.110
Enchanted Valley Creek	0.020-0.050	0.030-0.110
Greenway	0.028-0.030	0.015-0.040
Koshkonong Creek	0.035-0.040	0.050-0.100
Leutens Creek	0.045	0.080-0.100
Mauneshia River	0.035-0.055	0.040-0.150
Mauneshia River Unnamed Tributary	0.037-0.045	0.045-0.110
Mud Creek	0.030-0.035	0.035-0.100
Mud Creek North Fork	0.035	0.035-0.060
Mud Creek West Channel	0.035	0.035-0.100
Oregon Branch Badfish Creek	0.030-0.040	0.025-0.100
Portage Road Tributary	0.045	0.080
Saunders Creek	0.035-0.045	0.050-0.100
Sixmile Creek	0.030-0.045	0.035-0.085
Starkweather Creek	0.040	0.060
Sugar River	0.020-0.055	0.045-0.140
Token Creek	0.035-0.045	0.080-0.120
Unnamed Tributary to Lake Koshkonong	0.040-0.045	0.080-0.100
Unnamed Tributary to Sixmile Creek	0.045-0.050	0.050-0.070
Unnamed Tributary to Yahara River	0.030-0.040	0.045-0.080
Vermont Creek	0.032-0.048	0.032-0.085
West Branch Starkweather Creek	0.012-0.055	0.012-0.110
Wisconsin River	0.040-0.080	0.040-0.120
Yahara River	0.028-0.100	0.036-0.120

5.3 Coastal Analyses

This section is not applicable to this FIS project.

Table 15: Summary of Coastal Analyses

[Not Applicable to this FIS Project]

5.3.1 Total Stillwater Elevations

This section is not applicable to this FIS project.

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

[Not Applicable to this FIS Project]

Table 16: Tide Gage Analysis Specifics

[Not Applicable to this FIS Project]

5.3.2 Waves

This section is not applicable to this FIS project.

5.3.3 Coastal Erosion

This section is not applicable to this FIS project.

5.3.4 Wave Hazard Analyses

This section is not applicable to this FIS project.

Table 17: Coastal Transect Parameters

[Not Applicable to this FIS Project]

Figure 9: Transect Location Map

[Not Applicable in this FIS Report]

5.4 Alluvial Fan Analyses

This section is not applicable to this FIS project.

Table 18: Summary of Alluvial Fan Analyses

[Not Applicable to this FIS Project]

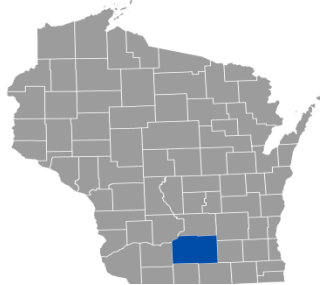
Table 19: Results of Alluvial Fan Analyses

[Not Applicable to this FIS Project]

FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 2 OF 4



DANE COUNTY, WISCONSIN AND INCORPORATED AREAS

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
VILLAGE OF BELLEVILLE	550159	VILLAGE OF MAPLE BLUFF	550618
VILLAGE OF BLACK EARTH	550079	VILLAGE OF MARSHALL	550084
VILLAGE OF BLUE MOUNDS*	550620	VILLAGE OF MAZOMANIE	550085
VILLAGE OF BROOKLYN*	550621	VILLAGE OF McFARLAND	550086
VILLAGE OF CAMBRIDGE	550080	CITY OF MIDDLETON	550087
VILLAGE OF COTTAGE GROVE	550617	CITY OF MONONA	550088
VILLAGE OF CROSS PLAINS	550081	VILLAGE OF MOUNT HOREB	550624
DANE COUNTY UNINCORPORATED AREAS	550077	VILLAGE OF OREGON	550089
VILLAGE OF DANE*	550622	VILLAGE OF ROCKDALE	550090
VILLAGE OF DEERFIELD	550623	VILLAGE OF SHOREWOOD HILLS	550556
VILLAGE OF DeFOREST	550082	CITY OF STOUGHTON	550091
CITY OF EDGERTON	550365	CITY OF SUN PRAIRIE	550573
CITY OF FITCHBURG	550610	CITY OF VERONA	550092
CITY OF MADISON	550083	VILLAGE OF WAUNAKEE	550093

* No Special Flood Hazards Identified in Dane County

EFFECTIVE:

REVISED PRELIMINARY 05/20/2015



FEMA

FLOOD INSURANCE STUDY NUMBER
55025CV002D

Version Number 2.2.2.1

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Wisconsin River	124-126 P
Yahara River	127-148 P

Published Separately

Flood Insurance Rate Map (FIRM)

SECTION 6.0 – MAPPING METHODS

6.1 Vertical and Horizontal Control

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

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

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

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

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

For this FIS, a single countywide conversion factor of -0.18 feet was applied in converting from NGVD29 to NAVD88. The datum conversion was calculated utilizing the computer program CORPSCON v6.0, from the U.S. Army Corps of Engineers, based on the procedures outlined in the FEMA publication entitled *Guidance for converting to the North American Vertical Datum of 1988* (FEMA 2003).

Table 20: Countywide Vertical Datum Conversion

Quadrangle Name	Quadrangle Corner	Latitude	Longitude	Conversion from NGVD29 to NAVD88 (feet)
Black Earth	NW	43.250	89.750	-0.197
Springfield Corners	NW	43.250	89.625	-0.151
Waunakee	NW	43.250	89.500	-0.148
DeForest	NW	43.250	89.375	-0.161
Sun Prairie	NW	43.250	89.250	-0.164
Marshall	NW	43.250	89.125	-0.174
Waterloo	NW	43.250	89.000	-0.190
Blue Mounds	NW	43.125	89.875	-0.194
Cross Plains	NW	43.125	89.750	-0.190
Middleton	NW	43.125	89.625	-0.177
Madison West	NW	43.125	89.500	-0.187
Madison East	NW	43.125	89.375	-0.197
Cottage Grove	NW	43.125	89.250	-0.194
Deerfield	NW	43.125	89.125	-0.200
Lake Mills	NW	43.125	89.000	-0.197
Daleyville	NW	43.000	89.875	-0.197
Mt. Vernon	NW	43.000	89.750	-0.184
Verona	NW	43.000	89.625	-0.207
Oregon	NW	43.000	89.500	-0.213
Rutland	NW	43.000	89.375	-0.203
Stoughton	NW	43.000	89.250	-0.213
Rockdale	NW	43.000	89.125	-0.197
Busseyville	NW	43.000	89.000	-0.213
Blanchardville	NW	42.875	89.875	-0.276
New Glarus	NW	42.875	89.750	-0.233
Belleville	NW	42.875	89.625	-0.240
Attica	NW	42.875	89.500	-0.240
Evansville	NW	42.875	89.375	-0.197
Cooksville	NW	42.875	89.250	-0.200
Edgerton	NW	42.875	89.125	-0.210
Milton	NW	42.875	89.000	-0.230
Average Conversion from NGVD29 to NAVD88 = -0.179 feet				

Table 21: Stream-by-Stream Vertical Datum Conversion

[Not Applicable to this FIS Project]

6.2 Base Map

The FIRMs and FIS Report for this project have been produced in a digital format. The flood hazard information was converted to a Geographic Information System (GIS) format that meets FEMA’s FIRM database specifications and geographic information standards. This information is provided in a digital format so that it can be incorporated into a local GIS and be accessed more easily by the community. The FIRM Database includes most of the tabular information contained in the FIS Report in such a way that the data can be associated with pertinent spatial features. For example, the information contained in the Floodway Data table and Flood Profiles can be linked

to the cross sections that are shown on the FIRMs. Additional information about the FIRM Database and its contents can be found in FEMA’s *Guidelines and Standards for Mapping Partners*, Appendix L.

Base map information shown on the FIRM was derived from the sources described in Table 22.

Table 22: Base Map Sources

Data Type	Data Provider	Data Date	Data Scale	Data Description
Datum Conversion Points for Dane County from WISCON v2.2	Wisconsin Department of Natural Resources	2013	NA	S_Datum_Conv_Pt
PLSS Area for Dane County	Wisconsin Department of Natural Resources	2004	1:24,000	S_PLSS_Ar
Political Boundaries and municipalities in Richland County	Wisconsin Department of Natural Resources	2008	1:24,000	S_Pol_Ar
2012 Transportation for Richland County	Wisconsin Department of Natural Resources	2012	NA	S_Trnsport_Ln
Wisconsin Hydro - streams and lakes	Wisconsin Department of Natural Resources	2007	1:24,000	S_Wtr_Ar, S_Wtr_Ln

6.3 Floodplain and Floodway Delineation

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

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

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

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

boundaries were interpolated. Table 2 indicates the flooding sources for which floodways have been determined. The results of the floodway computations for those flooding sources have been tabulated for selected cross sections and are shown in Table 24, “Floodway Data.”

Table 23: Summary of Topographic Elevation Data used in Mapping

Community	Flooding Source	Source for Topographic Elevation Data			
		Description	Scale	Contour Interval	Citation
Dane County Unincorporated Areas, Village of Black Earth, Village of Cross Plains, Village of Mazomanie	Black Earth Creek, Black Earth Creek Overland Flow Path 1, Black Earth Creek Overland Flow Path 2, Brewery Creek, Enchanted Valley Creek, Vermont Creek, Wisconsin River	LIDAR	1:100	2	WDNR 2014
Dane County Unincorporated Areas, Village of Belleville	Sugar River	LIDAR	1:100	2	WDNR 2014
Dane County Unincorporated Areas, Village of Cross Plains	Brewery Creek	LIDAR	1:100	2	WDNR 2014

BFEs shown at cross sections on the FIRM represent the 1% annual chance water surface elevations shown on the Flood Profiles and in the Floodway Data tables in the FIS Report.

Table 24: Floodway Data

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,503	514	1,549	2.3	921.8	921.8	921.8	0.0
B	3,469	483	1,134	3.0	924.1	924.1	924.1	0.0
C	4,300	97	5,309	2.6	931.0	931.0	931.0	0.0
D	5,117	1,091	4,973	0.7	931.1	931.1	931.1	0.0
E	5,911	973	4,713	0.8	931.2	931.2	931.2	0.0
F	7,473	552	1,167	2.7	932.0	932.0	932.0	0.0
G	8,614	269	640	4.8	934.8	934.8	934.8	0.0
H	10,874	416	2,422	1.3	941.8	941.8	941.8	0.0
I	11,681	61	933	7.5	941.8	941.8	941.8	0.0
J	11,746	50	657	4.7	944.1	944.1	944.1	0.0
K	12,783	829	3,190	0.7	945.3	945.3	945.3	0.0
L	14,005	58	439	6.0	946.9	946.9	946.9	0.0
M	14,104	46	2,854	4.3	948.1	948.1	948.1	0.0
N	15,530	291	1,466	1.7	949.0	949.0	949.0	0.0
O	16,163	233	1,000	2.2	949.4	949.4	949.4	0.0
P	16,648	210	1,046	2.1	949.8	949.8	949.8	0.0
Q	17,054	198	1,015	2.2	950.1	950.1	950.1	0.0
R	17,630	522	2,525	0.9	950.4	950.4	950.4	0.0
S	18,251	955	3,875	0.6	950.6	950.6	950.6	0.0
T	18,997	1,213	4,866	0.5	950.6	950.6	950.6	0.0
U	19,512	1,272	4,214	0.5	950.7	950.7	950.7	0.0
V	20,743	1,014	3,232	0.7	950.9	950.9	950.9	0.0
W	24,733	341	2,121	1.4	956.6	956.6	956.6	0.0
X	25,731	464	1,784	1.1	957.2	957.2	957.2	0.0
Y	25,930	545	1,800	1.4	957.3	957.3	957.3	0.0
Z	26,655	224	807	3.0	958.1	958.1	958.1	0.0

¹Distances are measured in feet above confluence with Sugar River

TABLE 24

**FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS**

FLOODWAY DATA

FLOODING SOURCE: BADGER MILL CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	27,500	261	1,602	1.9	959.7	959.7	959.7	0.0
AB	28,298	170	952	1.9	964.1	964.1	964.1	0.0
AC	29,229	175	2,860	2.4	964.3	964.3	964.3	0.0
AD	31,753	184	489	3.8	968.4	968.4	968.4	0.0
AE	34,489	186	778	3.1	974.2	974.2	974.2	0.0
AF	35,075	179	889	5.3	976.8	976.8	976.8	0.0

¹Distances are measured in feet above confluence with Sugar River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BADGER MILL CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,452	115	161	2.8	952.4	952.4	952.4	0.0
B	1,516	50	1,759	2.9	952.5	952.5	952.5	0.0
C	1,579	50	3,389	2.2	954.2	954.2	954.2	0.0
D	1,613	75	349	1.3	954.3	954.3	954.3	0.0
E	1,726	85	397	1.3	954.3	954.3	954.3	0.0
F	1,749	34	488	2.2	954.3	954.3	954.3	0.0
G	1,958	36	663	1.7	956.1	956.1	956.1	0.0
H	1,988	36	419	1.6	956.1	956.1	956.1	0.0
I	2,375	330	3,731	0.2	956.1	956.1	956.1	0.0
J	3,000	633	1,830	0.5	956.2	956.2	956.2	0.0

¹Distances are measured in feet above confluence with Badger Mill Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BADGER MILL CREEK DIVERSION CHANNEL

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	14,027	495	1,845	2.3	747.2	747.2	747.2	0.0
B	17,489	458	1,456	2.9	749.4	749.4	749.4	0.0
C	18,234	210	862	4.9	750.6	750.6	750.6	0.0
D	18,641	375	2,083	2.0	752.0	752.0	752.0	0.0
E	21,306	557	1,691	2.5	753.7	753.7	753.7	0.0
F	21,732	446	1,965	2.1	754.2	754.2	754.2	0.0
G	22,854	791	1,783	2.4	754.9	754.9	754.9	0.0
H	24,210	236	947	4.4	756.9	756.9	756.9	0.0
I	24,500	261	1,057	4.0	757.4	757.4	757.4	0.0
J	24,851	596	2,672	1.6	758.0	758.0	758.0	0.0
K	27,016	548	1,475	2.9	759.4	759.4	759.4	0.0
L	29,804	465	1,090	3.9	762.4	762.4	762.4	0.0
M	30,933	590	2,462	1.7	764.7	764.7	764.7	0.0
N	33,217	280	958	3.3	767.0	767.0	767.0	0.0
O	33,555	109	633	4.9	768.0	768.0	768.0	0.0
P	34,299	258	966	3.2	769.6	769.6	769.6	0.0
Q	35,003	205	869	3.6	770.2	770.2	770.2	0.0
R	35,322	133	754	4.1	770.7	770.7	770.7	0.0
S	35,726	734	2,591	1.6	771.5	771.5	771.5	0.0
T	36,852	791	1,808	2.3	772.1	772.1	772.1	0.0
U	37,132	420	1,595	2.6	772.7	772.7	772.7	0.0
V	37,656	310	870	3.0	773.6	773.6	773.6	0.0
W	37,976	572	2,270	1.9	774.5	774.5	774.5	0.0
X	38,545	361	1,360	2.2	775.2	775.2	775.2	0.0
Y	39,103	395	1,675	1.8	776.5	776.5	776.5	0.0
Z	40,195	385	1,079	2.8	777.6	777.6	777.6	0.0

¹Distances are measured in feet above confluence with Blue Mounds Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BLACK EARTH CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	43,013	131	547	5.5	782.6	782.6	782.6	0.0
AB	43,289	341	911	3.3	783.5	783.5	783.5	0.0
AC	45,829	1,258	1,866	1.6	787.2	787.2	787.2	0.0
AD	46,251	824	1,264	2.4	788.2	788.2	788.2	0.0
AE	47,280	583	1,231	2.4	789.9	789.9	789.9	0.0
AF	47,592	193	981	3.1	791.2	791.2	791.2	0.0
AG	49,526	808	1,747	1.7	792.0	792.0	792.0	0.0
AH	49,913	364	980	3.1	792.7	792.7	792.7	0.0
AI	50,120	460	1,739	1.7	794.3	794.3	794.3	0.0
AJ	52,302	848	1,921	1.6	794.9	794.9	794.9	0.0
AK	53,910	927	1,715	1.8	795.8	795.8	795.8	0.0
AL	55,436	1,084	1,700	1.8	797.1	797.1	797.1	0.0
AM	56,540	771	1,069	2.8	798.4	798.4	798.4	0.0
AN	57,634	738	1,621	1.9	799.8	799.8	799.8	0.0
AO	58,309	130	664	4.5	801.3	801.3	801.3	0.0
AP	58,661	314	1,370	2.2	802.2	802.2	802.2	0.0
AQ	61,288	382	613	4.9	803.2	803.2	803.2	0.0
AR	62,337	651	1,656	1.8	805.7	805.7	805.7	0.0
AS	63,768	360	831	2.2	806.9	806.9	806.9	0.0
AT	64,358	245	963	1.9	808.4	808.4	808.4	0.0
AU	65,197	430	1,239	1.5	809.0	809.0	809.0	0.0
AV	66,381	496	1,115	1.6	809.7	809.7	809.7	0.0
AW	66,756	475	1,262	1.4	811.5	811.5	811.5	0.0
AX	68,320	430	1,030	1.8	812.2	812.2	812.2	0.0
AY	68,630	355	1,816	1.0	813.4	813.4	813.4	0.0
AZ	70,874	631	1,050	1.7	813.8	813.8	813.8	0.0

¹Distances are measured in feet above confluence with Blue Mounds Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BLACK EARTH CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BA	71,611	150	596	3.0	815.2	815.2	815.2	0.0
BB	71,906	825	2,994	0.6	816.4	816.4	816.4	0.0
BC	74,999	778	1,111	1.6	817.1	817.1	817.1	0.0
BD	77,135	436	1,146	1.6	820.3	820.3	820.3	0.0
BE	78,820	716	1,188	1.5	821.7	821.7	821.7	0.0
BF	80,428	309	684	2.6	824.5	824.5	824.5	0.0
BG	81,085	455	724	2.5	825.2	825.2	825.2	0.0
BH	81,341	575	1,333	1.4	826.0	826.0	826.0	0.0
BI	84,259	401	815	2.2	828.1	828.1	828.1	0.0
BJ	85,188	340	752	2.4	829.4	829.4	829.4	0.0
BK	85,650	400	1,293	1.4	831.0	831.0	831.0	0.0
BL	86,439	334	814	2.2	831.4	831.4	831.4	0.0
BM	87,690	79	405	4.4	834.4	834.4	834.4	0.0
BN	88,867	911	1,956	0.9	835.5	835.5	835.5	0.0
BO	92,001	178	334	5.4	837.4	837.4	837.4	0.0
BP	93,016	540	1,245	1.5	839.8	839.8	839.8	0.0
BQ	93,251	630	1,864	1.0	841.5	841.5	841.5	0.0
BR	95,199	386	833	1.6	842.5	842.5	842.5	0.0
BS	96,875	231	491	2.8	844.0	844.0	844.0	0.0
BT	97,922	314	879	1.5	846.4	846.4	846.4	0.0
BU	99,218	559	769	1.8	847.0	847.0	847.0	0.0
BV	101,998	386	829	1.6	850.4	850.4	850.4	0.0
BW	103,050	103	289	4.7	851.4	851.4	851.4	0.0
BX	103,358	248	881	1.5	854.2	854.2	854.2	0.0
BY	104,951	233	387	3.5	855.4	855.4	855.4	0.0
BZ	105,446	334	1,134	1.2	856.3	856.3	856.3	0.0

¹Distances are measured in feet above confluence with Blue Mounds Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BLACK EARTH CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CA	105,983	289	487	2.8	856.8	856.8	856.8	0.0
CB	106,570	157	360	3.8	858.2	858.2	858.2	0.0
CC	106,900	68	363	3.7	861.1	861.1	861.1	0.0
CD	107,321	208	921	1.5	861.5	861.5	861.5	0.0
CE	108,097	419	1,254	1.1	861.6	861.6	861.6	0.0
CF	108,392	240	491	2.8	861.9	861.9	861.9	0.0
CG	108,687	292	710	1.9	862.3	862.3	862.3	0.0
CH	109,011	150	505	2.7	863.3	863.3	863.3	0.0
CI	110,149	196	504	2.7	864.0	864.0	864.0	0.0
CJ	110,521	181	408	3.3	864.9	864.9	864.9	0.0
CK	110,871	235	446	3.0	866.9	866.9	866.9	0.0
CL	111,217	109	283	4.8	867.9	867.9	867.9	0.0
CM	111,574	107	291	4.6	869.9	869.9	869.9	0.0
CN	111,895	111	294	4.6	871.6	871.6	871.6	0.0
CO	112,538	60	277	2.5	873.8	873.8	873.8	0.0
CP	112,856	170	439	1.6	874.1	874.1	874.1	0.0
CQ	114,652	276	467	1.5	874.6	874.6	874.6	0.0
CR	115,576	263	520	1.3	875.2	875.2	875.2	0.0
CS	115,765	270	707	1.0	876.4	876.4	876.4	0.0
CT	116,184	92	261	2.7	876.5	876.5	876.5	0.0
CU	116,480	340	1,064	0.7	877.5	877.5	877.5	0.0
CV	118,189	130	155	4.5	877.8	877.8	877.8	0.0
CW	119,090	260	277	2.5	882.2	882.2	882.2	0.0
CX	121,053	224	373	1.9	887.7	887.7	887.7	0.0
CY	121,535	88	133	5.3	889.3	889.3	889.3	0.0
CZ	121,919	89	175	4.0	891.6	891.6	891.6	0.0

¹Distances are measured in feet above confluence with Blue Mounds Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BLACK EARTH CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
DA	122,636	100	197	3.6	894.2	894.2	894.2	0.0
DB	122,956	150	840	0.8	900.3	900.3	900.3	0.0
DC	123,888	150	485	1.4	900.4	900.4	900.4	0.0
DD	124,685	175	314	2.2	901.3	901.3	901.3	0.0
DE	125,178	270	1,042	0.7	906.2	906.2	906.2	0.0
DF	125,951	105	241	2.9	906.3	906.3	906.3	0.0
DG	126,871	322	492	0.9	907.3	907.3	907.3	0.0
DH	127,371	60	172	2.6	907.6	907.6	907.6	0.0
DI	127,544	126	346	1.3	908.9	908.9	908.9	0.0
DJ	128,773	156	295	1.5	909.3	909.3	909.3	0.0
DK	128,992	690	5,722	0.2	913.5	913.5	913.5	0.0
DL	129,772	644	1,793	0.2	913.5	913.5	913.5	0.0
DM	130,233	701	2,036	0.2	913.5	913.5	913.5	0.0
DN	130,789	233	375	1.0	913.5	913.5	913.5	0.0
DO	131,552	526	1,770	0.1	913.6	913.6	913.6	0.0
DP	132,163	490	1,089	0.1	913.6	913.6	913.6	0.0
DQ	132,771	203	377	0.3	913.6	913.6	913.6	0.0
DR	133,384	71	130	0.9	913.6	913.6	913.6	0.0
DS	133,720	66	2,825	0.2	920.0	920.0	920.0	0.0
DT	135,485	1,884	10,085	0.0	920.0	920.0	920.0	0.0
DU	136,053	751	2,217	0.1	920.0	920.0	920.0	0.0
DV	137,055	60	434	0.7	920.1	920.1	920.1	0.0
DW	137,340	39	154	0.4	920.5	920.5	920.5	0.0
DX	137,768	39	163	0.4	920.5	920.5	920.5	0.0
DY	138,532	43	122	0.5	920.6	920.6	920.6	0.0
DZ	139,371	28	55	1.2	920.7	920.7	920.7	0.0

¹Distances are measured in feet above confluence with Blue Mounds Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BLACK EARTH CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
EA	140,055	36	68	0.9	921.0	921.0	921.0	0.0
EB	140,963	41	89	1.1	921.3	921.3	921.3	0.0
EC	141,865	354	419	0.2	921.4	921.4	921.4	0.0
ED	142,534	885	1,950	0.1	921.4	921.4	921.4	0.0
EE	144,193	730	630	0.2	921.5	921.5	921.5	0.0
EF	144,948	527	571	0.0	921.5	921.5	921.5	0.0
EG	145,834	40	140	0.2	921.5	921.5	921.5	0.0
EH	147,067	16	26	0.6	921.5	921.5	921.5	0.0
EI	147,476	55	166	0.1	923.9	923.9	923.9	0.0
EJ	148,393	1,082	5,023	0.0	923.9	923.9	923.9	0.0
EK	150,096	396	381	0.0	923.9	923.9	923.9	0.0

¹Distances are measured in feet above confluence with Blue Mounds Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BLACK EARTH CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	322	655	1,141	1.0	765.0	765.0	765.0	0.0
B	1,499	487	688	1.6	766.3	766.3	766.3	0.0
C	2,594	205	247	4.4	767.4	767.4	767.4	0.0
D	2,722	146	383	2.8	768.1	768.1	768.1	0.0
E	3,564	352	615	1.8	769.2	769.2	769.2	0.0
F	3,864	379	392	2.8	769.4	769.4	769.4	0.0
G	4,757	238	643	1.7	771.0	771.0	771.0	0.0
H	5,030	494	1,343	0.8	771.1	771.1	771.1	0.0

¹Distances are measured in feet above convergence with Black Earth Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BLACK EARTH CREEK OVERLAND FLOWPATH 1

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	62	590	1,963	0.8	773.1	773.1	773.1	0.0
B	739	173	464	3.5	773.4	773.4	773.4	0.0
C	909	125	573	2.8	774.4	774.4	774.4	0.0

¹Distances are measured in feet above convergence with Black Earth Creek

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY DANE COUNTY, WISCONSIN AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: BLACK EARTH CREEK OVERLAND FLOWPATH 2

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	124	37	131	8.5	873.4	873.4	873.4	0.0
B	337	89	1,097	2.2	877.9	877.9	877.9	0.0
C	945	61	271	4.9	878.1	878.1	878.1	0.0
D	1,003	74	279	4.5	878.5	878.5	878.5	0.0
E	1,115	64	405	2.9	883.1	883.1	883.1	0.0
F	1,148	79	407	2.7	883.1	883.1	883.1	0.0
G	1,196	115	645	1.8	883.3	883.3	883.3	0.0
H	1,497	95	420	2.9	883.4	883.4	883.4	0.0
I	1,703	81	373	3.1	883.7	883.7	883.7	0.0
J	1,954	71	299	4.3	884.1	884.1	884.1	0.0
K	2,025	60	155	7.1	885.0	885.0	885.0	0.0
L	2,168	65	347	3.5	889.4	889.4	889.4	0.0
M	2,301	33	128	9.3	888.9	888.9	888.9	0.0
N	2,538	27	119	10.3	892.6	892.6	892.6	0.0
O	2,734	23	145	10.8	896.6	896.6	896.6	0.0
P	2,961	44	167	6.8	899.6	899.6	899.6	0.0
Q	3,198	36	144	7.4	901.1	901.1	901.1	0.0
R	3,374	38	179	6.7	902.4	902.4	902.4	0.0
S	3,497	32	198	7.9	902.9	902.9	902.9	0.0
T	3,549	47	413	4.7	903.8	903.8	903.8	0.0
U	3,561	51	415	7.6	904.2	904.2	904.2	0.0
V	4,033	56	345	3.3	906.1	906.1	906.1	0.0
W	4,456	128	347	6.5	906.5	906.5	906.5	0.0
X	4,946	193	303	5.5	907.8	907.8	907.8	0.0
Y	5,286	42	246	4.5	908.4	908.4	908.4	0.0
Z	5,489	190	700	2.4	910.1	910.1	910.1	0.0

¹Distances are measured in feet above confluence with Black Earth Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BREWERY CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	5,722	198	564	3.0	910.1	910.1	910.1	0.0
AB	6,222	159	319	6.0	910.7	910.7	910.7	0.0
AC	6,672	292	495	4.9	912.1	912.1	912.1	0.0
AD	7,137	205	622	4.0	912.7	912.7	912.7	0.0
AE	7,617	136	354	6.2	913.2	913.2	913.2	0.0

¹Distances are measured in feet above confluence with Black Earth Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BREWERY CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	7,454	55	3,922	6.3	846.9	846.9	846.9	0.0
B	7,502	78	4,920	4.6	847.9	847.9	847.9	0.0
C	8,351	1,511	4,770	0.3	848.6	848.6	848.6	0.0
D	9,213	1,294	3,937	0.4	848.7	848.7	848.7	0.0
E	11,139	1,394	4,642	0.4	848.8	848.8	848.8	0.0
F	12,895	807	2,711	0.8	848.9	848.9	848.9	0.0
G	13,853	225	1,001	3.0	849.4	849.4	849.4	0.0
H	14,937	200	3,069	1.6	851.9	851.9	851.9	0.0
I	16,328	1,525	7,062	0.3	852.4	852.4	852.4	0.0
J	18,440	1,546	7,439	0.3	852.4	852.4	852.4	0.0
K	19,692	1,567	10,674	0.3	852.5	852.5	852.5	0.0
L	21,775	474	2,083	0.6	852.6	852.6	852.6	0.0
M	22,963	198	834	1.5	852.8	852.8	852.8	0.0
N	23,568	155	2,377	1.3	854.0	854.0	854.0	0.0
O	24,907	498	2,194	0.6	854.7	854.7	854.7	0.0
P	27,170	923	4,909	0.4	854.8	854.8	854.8	0.0
Q	28,611	765	3,784	0.4	854.9	854.9	854.9	0.0
R	30,583	997	12,212	0.2	857.2	857.2	857.2	0.0
S	32,574	1,916	13,667	0.1	857.2	857.2	857.2	0.0
T	34,510	1,438	9,060	0.1	857.2	857.2	857.2	0.0
U	36,487	1,611	9,131	0.1	857.2	857.2	857.2	0.0
V	38,625	962	9,364	0.1	857.2	857.2	857.2	0.0
W	39,887	434	1,095	0.5	857.2	857.2	857.2	0.0
X	40,341	283	348	1.1	857.3	857.3	857.3	0.0
Y	41,713	49	556	2.6	859.9	859.9	859.9	0.0
Z	42,937	217	394	0.9	861.7	861.7	861.7	0.0

¹Distances are measured in feet above confluence with Lake Kegonsa

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: DOOR CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	43,978	326	563	0.7	863.1	863.1	863.1	0.0
AB	44,462	114	591	1.2	863.6	863.6	863.6	0.0
AC	45,159	287	280	1.3	864.3	864.3	864.3	0.0
AD	45,811	251	392	1.3	865.2	865.2	865.2	0.0
AE	45,948	234	450	1.6	865.3	865.3	865.3	0.0
AF	46,066	210	349	1.9	865.5	865.5	865.5	0.0
AG	46,139	229	282	1.9	865.6	865.6	865.6	0.0
AH	46,399	125	153	2.4	866.1	866.1	866.1	0.0
AI	46,728	220	233	1.6	866.7	866.7	866.7	0.0
AJ	47,807	75	524	3.3	869.7	869.7	869.7	0.0
AK	49,036	24	176	4.0	872.6	872.6	872.6	0.0
AL	49,369	195	463	0.7	874.1	874.1	874.1	0.0
AM	49,606	225	454	0.7	874.1	874.1	874.1	0.0
AN	50,458	298	573	0.5	874.4	874.4	874.4	0.0
AO	51,131	522	491	0.7	874.6	874.6	874.6	0.0
AP	52,225	613	657	0.5	875.5	875.5	875.5	0.0
AQ	53,112	232	649	2.0	876.8	876.8	876.8	0.0
AR	54,188	233	312	2.0	879.3	879.3	879.3	0.0
AS	55,079	45	386	3.4	881.4	881.4	881.4	0.0
AT	55,692	174	358	1.6	882.6	882.6	882.6	0.0
AU	56,330	295	1,172	0.8	883.3	883.3	883.3	0.0
AV	57,367	223	489	1.3	884.2	884.2	884.2	0.0
AW	57,979	417	609	0.9	884.8	884.8	884.8	0.0
AX	59,057	157	340	1.7	886.6	886.6	886.6	0.0
AY	59,959	990	1,813	0.3	887.2	887.2	887.2	0.0
AZ	61,377	843	687	0.7	887.9	887.9	887.9	0.0

¹Distances are measured in feet above confluence with Lake Kegonsa

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: DOOR CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BA	62,276	809	548	0.8	889.1	889.1	889.1	0.0
BB	63,312	448	617	0.9	890.9	890.9	890.9	0.0
BC	63,800	319	326	2.0	893.3	893.3	893.3	0.0
BD	63,986	210	200	2.2	894.0	894.0	894.0	0.0
BE	64,157	202	519	0.9	897.1	897.1	897.1	0.0
BF	64,657	113	333	1.4	898.2	898.2	898.2	0.0
BG	65,530	294	794	0.1	899.1	899.1	899.1	0.0
BH	66,495	14	22	2.8	901.2	901.2	901.2	0.0
BI	66,913	17	24	2.5	903.0	903.0	903.0	0.0
BJ	67,390	20	30	2.0	904.4	904.4	904.4	0.0
BK	68,614	619	1,087	0.1	909.3	909.3	909.3	0.0
BL	69,410	278	130	0.5	909.3	909.3	909.3	0.0

¹Distances are measured in feet above confluence with Lake Kegonsa

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: DOOR CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,102	43	179	4.6	852.6	851.8 ²	851.8	0.0
B	1,538	189	386	1.8	853.3	853.3	853.3	0.0
C	2,368	135	638	2.1	854.1	854.1	854.1	0.0
D	2,943	608	1,178	0.7	855.1	855.1	855.1	0.0
E	5,431	1,288	2,255	0.3	855.9	855.9	855.9	0.0
F	8,132	425	867	0.8	857.0	857.0	857.0	0.0
G	10,773	1,287	1,989	0.4	857.8	857.8	857.8	0.0
H	13,864	947	858	0.8	859.2	859.2	859.2	0.0
I	14,790	413	1,168	1.3	860.0	860.0	860.0	0.0
J	15,758	1,062	2,754	0.3	861.6	861.6	861.6	0.0
K	16,404	1,436	2,549	0.3	861.7	861.7	861.7	0.0
L	17,520	823	887	0.7	862.0	862.0	862.0	0.0
M	19,684	339	625	1.0	866.3	866.3	866.3	0.0
N	20,317	216	361	1.7	867.3	867.3	867.3	0.0
O	21,260	160	234	2.6	870.2	870.2	870.2	0.0
P	22,516	155	327	1.9	875.3	875.3	875.3	0.0
Q	23,939	222	377	1.6	881.0	881.0	881.0	0.0
R	24,829	138	227	2.7	884.7	884.7	884.7	0.0
S	26,016	432	1,168	0.5	891.2	891.2	891.2	0.0
T	27,014	478	641	1.0	892.0	892.0	892.0	0.0
U	28,126	869	1,209	0.6	893.3	893.3	893.3	0.0
V	29,546	550	1,207	0.4	896.3	896.3	896.3	0.0
W	30,459	806	883	0.5	896.5	896.5	896.5	0.0
X	31,332	378	338	1.3	898.4	898.4	898.4	0.0
Y	32,242	256	483	1.3	900.2	900.2	900.2	0.0
Z	33,846	109	106	3.4	906.4	906.4	906.4	0.0

¹Distances are measured in feet above confluence with Sixmile Creek

²Elevation computed without consideration of backwater effects from Lake Mendota

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY DANE COUNTY, WISCONSIN AND INCORPORATED AREAS	FLOODWAY DATA FLOODING SOURCE: DORN CREEK
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LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	34,785	61	84	4.3	911.0	911.0	911.0	0.0
AB	36,473	228	306	1.2	917.7	917.7	917.7	0.0
AC	37,710	52	79	4.6	922.0	922.0	922.0	0.0
AD	38,666	119	102	3.5	926.2	926.2	926.2	0.0
AE	39,836	118	144	2.5	930.2	930.2	930.2	0.0
AF	40,910	64	100	3.6	932.2	932.2	932.2	0.0
AG	41,816	191	256	1.4	933.3	933.3	933.3	0.0
AH	43,899	65	71	3.3	935.6	935.6	935.6	0.0
AI	45,325	319	169	1.4	937.8	937.8	937.8	0.0
AJ	46,736	558	1,156	0.2	939.3	939.3	939.3	0.0
AK	47,829	685	2,964	0.1	939.8	939.8	939.8	0.0
AL	48,703	281	382	0.7	940.0	940.0	940.0	0.0
AM	49,302	374	604	0.4	940.0	940.0	940.0	0.0
AN	49,977	379	429	0.6	940.2	940.2	940.2	0.0
AO	50,377	447	419	0.6	940.2	940.2	940.2	0.0

¹Distances are measured in feet above confluence with Sixmile Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: DORN CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	5,283	189	4,240	2.5	946.5	946.5	946.5	0.0
B	5,658	537	3,796	0.7	946.6	946.6	946.6	0.0
C	5,848	465	2,691	0.9	946.7	946.7	946.7	0.0
D	6,184	382	1,542	1.5	946.7	946.7	946.7	0.0
E	6,429	337	744	2.3	946.9	946.9	946.9	0.0
F	6,819	179	427	4.0	947.8	947.8	947.8	0.0
G	7,162	98	823	5.9	949.2	949.2	949.2	0.0
H	7,559	238	1,301	2.7	951.0	951.0	951.0	0.0
I	7,774	236	743	2.4	951.3	951.3	951.3	0.0
J	7,840	279	1,563	1.2	953.8	953.8	953.8	0.0
K	7,997	51	895	5.6	953.6	953.6	953.6	0.0
L	8,252	49	1,056	3.8	956.6	956.6	956.6	0.0
M	8,543	146	551	2.5	957.0	957.0	957.0	0.0
N	8,831	97	333	4.2	958.9	958.9	958.9	0.0
O	9,054	94	301	4.6	960.1	960.1	960.1	0.0
P	9,283	90	291	4.8	961.7	961.7	961.7	0.0
Q	9,587	80	321	4.7	964.4	964.4	964.4	0.0
R	9,685	84	507	3.2	967.0	967.0	967.0	0.0
S	10,103	71	191	7.3	967.9	967.9	967.9	0.0
T	10,396	64	226	6.1	970.4	970.4	970.4	0.0
U	10,702	60	180	7.7	972.4	972.4	972.4	0.0
V	11,122	63	237	5.8	976.2	976.2	976.2	0.0
W	11,651	56	171	8.1	979.2	979.2	979.2	0.0
X	12,126	73	281	4.9	982.4	982.4	982.4	0.0
Y	12,531	50	227	6.6	983.4	983.4	983.4	0.0
Z	12,614	101	971	1.9	988.4	988.4	988.4	0.0

¹Distances are measured in feet above confluence with Badger Mill Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: DRY TRIBUTARY TO BADGER MILL CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	13,015	194	922	1.5	988.4	988.4	988.4	0.0
AB	13,374	144	641	2.2	988.5	988.5	988.5	0.0
AC	13,760	244	1,216	1.3	988.7	988.7	988.7	0.0
AD	14,056	65	513	3.4	988.7	988.7	988.7	0.0
AE	14,353	85	574	2.7	989.9	989.9	989.9	0.0
AF	15,156	76	248	5.5	990.8	990.8	990.8	0.0
AG	15,272	128	689	2.2	991.4	991.4	991.4	0.0
AH	15,733	152	565	2.4	991.7	991.7	991.7	0.0
AI	16,024	133	323	4.2	992.1	992.1	992.1	0.0
AJ	16,264	113	354	3.6	993.9	993.9	993.9	0.0
AK	16,559	204	883	1.5	994.2	994.2	994.2	0.0
AL	16,725	231	2,500	1.2	994.3	994.3	994.3	0.0
AM	16,869	295	6,636	0.4	994.3	994.3	994.3	0.0
AN	17,157	390	8,696	0.4	994.3	994.3	994.3	0.0
AO	17,273	240	495	5.4	996.6	996.6	996.6	0.0
AP	17,891	324	1,038	1.2	997.2	997.2	997.2	0.0
AQ	18,562	395	915	1.4	997.4	997.4	997.4	0.0
AR	19,274	533	735	2.1	997.9	997.9	997.9	0.0
AS	20,105	241	461	3.4	999.8	999.8	999.8	0.0
AT	20,404	65	514	6.6	1,001.0	1,001.0	1,001.0	0.0
AU	20,482	109	1,501	2.6	1,002.5	1,002.5	1,002.5	0.0
AV	20,823	451	1,186	1.0	1,002.7	1,002.7	1,002.7	0.0
AW	21,601	550	937	1.3	1,002.9	1,002.9	1,002.9	0.0
AX	22,465	421	703	1.6	1,003.3	1,003.3	1,003.3	0.0
AY	23,110	287	418	2.7	1,004.1	1,004.1	1,004.1	0.0
AZ	23,687	192	235	4.8	1,006.3	1,006.3	1,006.3	0.0

¹Distances are measured in feet above confluence with Badger Mill Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: DRY TRIBUTARY TO BADGER MILL CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BA	24,038	152	190	6.0	1,008.3	1,008.3	1,008.3	0.0
BB	24,196	178	378	3.0	1,009.5	1,009.5	1,009.5	0.0
BC	24,485	121	279	4.1	1,010.1	1,010.1	1,010.1	0.0
BD	24,856	43	142	8.0	1,011.3	1,011.3	1,011.3	0.0
BE	25,285	37	121	9.4	1,017.1	1,017.1	1,017.1	0.0
BF	25,613	76	291	3.9	1,020.3	1,020.3	1,020.3	0.0
BG	25,890	112	335	3.0	1,022.8	1,022.8	1,022.8	0.0
BH	26,320	55	142	7.2	1,025.2	1,025.2	1,025.2	0.0
BI	26,686	71	193	5.3	1,027.7	1,027.7	1,027.7	0.0
BJ	26,963	112	214	4.8	1,029.4	1,029.4	1,029.4	0.0
BK	27,314	123	349	2.9	1,031.2	1,031.2	1,031.2	0.0
BL	27,660	141	448	2.3	1,031.9	1,031.9	1,031.9	0.0
BM	27,909	277	2,682	1.1	1,032.0	1,032.0	1,032.0	0.0
BN	28,483	748	2,560	0.4	1,032.1	1,032.1	1,032.1	0.0
BO	29,051	600	1,409	0.8	1,032.1	1,032.1	1,032.1	0.0
BP	29,320	83	1,477	4.9	1,032.0	1,032.0	1,032.0	0.0

¹Distances are measured in feet above confluence with Badger Mill Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: DRY TRIBUTARY TO BADGER MILL CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	319	95	262	2.8	972.7	972.7	972.7	0.0
B	725	74	258	4.7	974.0	974.0	974.0	0.0
C	914	99	157	5.1	975.5	975.5	975.5	0.0
D	1,140	77	117	5.2	977.7	977.7	977.7	0.0
E	1,330	66	114	5.9	979.5	979.5	979.5	0.0
F	1,467	114	439	3.3	980.5	980.5	980.5	0.0
G	1,734	114	457	2.7	982.6	982.6	982.6	0.0
H	2,213	115	278	2.6	983.4	983.4	983.4	0.0
I	2,464	99	417	4.1	984.2	984.2	984.2	0.0

¹Distances are measured in feet above confluence with Badger Mill Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: EAST BRANCH BADGER MILL CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)				
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	220	84	167	5.2	112	848.2	848.2	848.2	0.0
B	406	146	376	2.3	0	849.2	849.2	849.2	0.0
C	1,079	62	307	2.8	0	849.8	849.8	849.8	0.0
D	1,822	47	248	3.1	0	850.2	850.2	850.2	0.0
E	2,351	593	1,621	0.5	0	850.5	850.5	850.5	0.0
F	3,833	608	2,103	0.4	0	850.6	850.6	850.6	0.0
G	4,637	63	366	2.1	0	851.0	851.0	851.0	0.0
H	5,816	301	861	0.9	0	851.7	851.7	851.7	0.0
I	6,467	60	208	3.7	0	851.7	851.7	851.7	0.0
J	6,938	295	1,393	0.6	0	853.1	853.1	853.1	0.0
K	7,552	410	1,862	0.4	0	853.1	853.1	853.1	0.0
L	8,561	334	1,007	0.8	0	853.3	853.3	853.3	0.0
M	9,038	34	268	3.1	0	853.5	853.5	853.5	0.0
N	11,189	249	858	1.1	0	854.7	854.7	854.7	0.0
O	12,467	86	217	4.5	0	855.3	855.3	855.3	0.0
P	13,322	127	585	1.2	0	857.0	857.0	857.0	0.0
Q	13,660	61	298	2.4	0	858.0	858.0	858.0	0.0
R	14,458	50	152	4.8	0	858.9	858.9	858.9	0.0
S	15,734	64	166	4.4	0	866.2	866.2	866.2	0.0
T	15,926	59	239	3.0	0	868.7	868.7	868.7	0.0
U	16,591	240	624	1.2	0	871.9	871.9	871.9	0.0
V	17,318	61	317	2.3	0	878.6	878.6	878.6	0.0

¹Distances are measured in feet above confluence with Starkweather Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: EAST BRANCH STARKWEATHER CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,315	51	80	3.4	892.0	892.0	892.0	0.0
B	1,663	45	81	3.3	897.9	897.9	897.9	0.0
C	1,769	35	81	3.3	898.8	898.8	898.8	0.0
D	1,874	32	90	3.1	899.4	899.4	899.4	0.0
E	2,629	92	373	1.4	909.3	909.3	909.3	0.0
F	3,168	187	753	0.7	909.3	909.3	909.3	0.0
G	3,680	175	710	0.7	909.3	909.3	909.3	0.0

¹Distances are measured in feet above mouth

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: ENCHANTED VALLEY CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)				
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	166	36	520	0.2	313	929.5	929.5	929.5	0.00
B	782	30	70	1.6	0	929.5	929.5	929.5	0.00
C	1,133	25	194	0.9	185	929.6	929.6	929.6	0.00
D	1,274	12	40	2.8	0	929.6	929.6	929.6	0.00
E	1,362	12	40	2.8	0	929.6	929.6	929.6	0.00
F	1,728	18	191	1.1	130	929.8	929.8	929.8	0.00
G	2,002	88	92	1.6	29	929.9	929.9	929.9	0.00
H	2,284	26	27	4.2	0	930.1	930.1	930.1	0.00
I	2,556	33	44	2.3	0	931.2	931.2	931.2	0.00
J	2,763	22	33	3.1	0	931.9	931.9	931.9	0.00
K	2,896	59	194	0.5	82	934.1	934.1	934.1	0.00
L	3,014	56	108	0.9	0	934.1	934.1	934.1	0.00
M	3,106	0	202	0.5	131	934.8	934.8	934.8	0.00
N	3,382	0	102	1.0	102	934.8	934.8	934.8	0.00
O	3,457	32	147	0.3	86	935.2	935.2	935.2	0.00
P	3,559	45	79	0.5	0	935.2	935.2	935.2	0.00
Q	3,633	25	40	0.9	0	935.2	935.2	935.2	0.00
R	3,716	22	29	1.3	0	935.2	935.2	935.2	0.00
S	3,787	20	21	1.7	0	935.3	935.3	935.3	0.00
T	3,880	0	38	2.7	39	936.9	936.9	936.9	0.00
U	3,989	50	114	0.8	40	937.0	937.0	937.0	0.00
V	4,111	91	244	0.4	123	937.0	937.0	937.0	0.00
W	4,566	15	94	0.9	118	937.0	937.0	937.0	0.00
X	4,851	7	36	2.5	104	937.8	937.8	937.8	0.00

¹Distances are measured in feet above confluence with Oregon Branch Badfish Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: GREENWAY

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	46,760	601	3,503	1.2	796.6	796.6	796.6	0.0
B	47,683	197	996	3.1	796.9	796.9	796.9	0.0
C	50,403	946	3,768	0.8	798.1	798.1	798.1	0.0
D	53,987	1,504	5,361	0.6	798.4	798.4	798.4	0.0
E	57,779	957	3,662	1.0	798.7	798.7	798.7	0.0
F	59,461	584	3,751	1.0	799.9	799.9	799.9	0.0
G	63,677	687	3,394	0.9	800.2	800.2	800.2	0.0
H	68,523	776	3,643	0.9	800.5	800.5	800.5	0.0
I	71,964	1,207	2,861	1.1	801.1	801.1	801.1	0.0
J	76,182	689	3,641	1.1	802.9	802.9	802.9	0.0
K	77,412	742	4,315	0.9	803.9	803.9	803.9	0.0
L	82,282	625	2,100	1.5	804.5	804.5	804.5	0.0
M	86,422	975	2,854	1.1	805.6	805.6	805.6	0.0
N	91,061	861	2,559	1.2	806.8	806.8	806.8	0.0
O	92,725	779	4,072	0.8	808.8	808.8	808.8	0.0
P	95,807	588	2,450	1.3	809.4	809.4	809.4	0.0
Q	98,088	222	1,169	2.7	810.5	810.5	810.5	0.0
R	100,027	714	3,368	0.9	811.3	811.3	811.3	0.0
S	102,574	1,156	4,599	0.7	811.5	811.5	811.5	0.0
T	103,544	499	1,660	1.9	811.6	811.6	811.6	0.0
U	104,512	150	536	6.0	813.8	813.8	813.8	0.0
V	105,264	153	836	3.4	817.1	817.1	817.1	0.0
W	106,321	522	1,558	1.8	818.5	818.5	818.5	0.0
X	108,436	265	1,145	2.5	819.8	819.8	819.8	0.0
Y	109,990	1,055	4,302	0.9	820.7	820.7	820.7	0.0
Z	112,214	722	1,750	1.8	821.5	821.5	821.5	0.0

¹Distances are measured in feet above confluence with Rock River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: KOSHKONONG CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	114,492	439	2,528	1.4	824.4	824.4	824.4	0.0
AB	116,400	913	4,926	0.6	824.8	824.8	824.8	0.0
AC	116,945	730	5,008	0.8	824.9	824.9	824.9	0.0
AD	117,589	821	3,352	0.9	825.0	825.0	825.0	0.0
AE	118,715	1,054	4,793	0.6	825.1	825.1	825.1	0.0
AF	119,441	1,032	3,826	0.8	825.1	825.1	825.1	0.0
AG	119,922	1,009	3,483	0.8	825.2	825.2	825.2	0.0
AH	120,539	732	2,484	1.2	825.3	825.3	825.3	0.0
AI	121,033	412	1,444	2.8	825.5	825.5	825.5	0.0
AJ	121,726	249	1,294	2.3	828.3	828.3	828.3	0.0
AK	122,397	380	3,052	1.2	830.1	830.1	830.1	0.0
AL	123,063	431	1,609	1.8	830.2	830.2	830.2	0.0
AM	123,721	351	1,751	1.6	830.5	830.5	830.5	0.0
AN	124,190	210	3,435	2.2	830.6	830.6	830.6	0.0
AO	124,844	157	3,517	2.9	830.9	830.9	830.9	0.0
AP	126,352	1,504 / 138 ²	10,573	0.3	832.3	832.3	832.3	0.0
AQ	149,697	170	912	3.2	844.7	844.7	844.7	0.0
AR	150,457	206	1,004	2.7	845.2	845.2	845.2	0.0
AS	151,703	1,823	16,998	0.3	845.4	845.4	845.4	0.0
AT	155,361	2,203	21,846	0.2	845.5	845.5	845.5	0.0
AU	159,296	3,502	16,897	0.1	845.5	845.5	845.5	0.0
AV	162,668	1,096	5,562	0.5	845.5	845.5	845.5	0.0
AW	165,160	484	2,005	1.7	846.1	846.1	846.1	0.0
AX	167,397	865	1,833	0.9	846.9	846.9	846.9	0.0
AY	169,364	389	1,500	1.2	849.1	849.1	849.1	0.0
AZ	171,371	900	2,426	0.7	849.5	849.5	849.5	0.0

¹Distances are measured in feet above confluence with Rock River

²Total floodway width / width within Dane County

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	DANE COUNTY, WISCONSIN	FLOODING SOURCE: KOSHKONONG CREEK
	AND INCORPORATED AREAS	

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BA	173,429	265	3,941	1.8	849.7	849.7	849.7	0.0
BB	175,498	721	2,117	0.7	850.5	850.5	850.5	0.0
BC	177,125	304	776	1.9	851.8	851.8	851.8	0.0
BD	178,041	308	680	2.1	852.6	852.6	852.6	0.0
BE	179,230	166	730	2.0	853.8	853.8	853.8	0.0
BF	180,681	52	983	3.9	854.7	854.7	854.7	0.0
BG	181,464	239	1,114	1.4	855.2	855.2	855.2	0.0
BH	183,590	1,126	3,437	0.4	855.3	855.3	855.3	0.0
BI	185,616	475	1,142	1.3	855.6	855.6	855.6	0.0
BJ	187,569	603	2,113	0.7	856.1	856.1	856.1	0.0
BK	188,620	576	1,911	0.8	856.2	856.2	856.2	0.0
BL	190,040	253	7,401	1.0	856.8	856.8	856.8	0.0
BM	191,063	832	13,344	0.3	857.2	857.2	857.2	0.0
BN	193,581	1,105	5,073	0.4	857.3	857.3	857.3	0.0
BO	195,001	1,327	5,713	0.2	857.3	857.3	857.3	0.0
BP	196,951	886	11,991	0.2	857.3	857.3	857.3	0.0
BQ	198,272	1,105	12,035	0.2	857.4	857.4	857.4	0.0
BR	201,470	693	7,646	0.7	857.5	857.5	857.5	0.0
BS	203,197	584	2,485	0.6	858.8	858.8	858.8	0.0
BT	204,200	492	2,481	0.7	859.0	859.0	859.0	0.0
BU	204,627	74	837	3.4	859.0	859.0	859.0	0.0
BV	205,008	268	7,532	1.9	860.1	860.1	860.1	0.0
BW	205,942	812	9,056	0.4	860.3	860.3	860.3	0.0
BX	206,632	1,204	10,650	0.4	860.4	860.4	860.4	0.0
BY	208,280	617	3,922	0.7	861.5	861.5	861.5	0.0
BZ	211,151	477	7,027	0.7	861.7	861.7	861.7	0.0

¹Distances are measured in feet above confluence with Rock River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: KOSHKONONG CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CA	212,395	706	13,468	0.3	863.0	863.0	863.0	0.0
CB	215,407	1,791	11,065	0.1	863.0	863.0	863.0	0.0
CC	216,424	1,398	8,407	0.2	863.0	863.0	863.0	0.0
CD	217,631	1,889	10,520	0.2	863.0	863.0	863.0	0.0
CE	218,630	1,140	6,413	0.4	863.0	863.0	863.0	0.0
CF	219,661	309	808	2.4	863.4	863.4	863.4	0.0
CG	219,752	314	1,734	1.3	866.2	866.2	866.2	0.0
CH	220,247	244	912	1.9	866.3	866.3	866.3	0.0
CI	221,172	429	772	2.3	867.9	867.9	867.9	0.0
CJ	222,358	276	692	2.5	870.0	870.0	870.0	0.0
CK	222,906	65	405	6.7	871.8	871.8	871.8	0.0
CL	223,171	166	1,870	1.4	876.3	876.3	876.3	0.0
CM	223,302	246	1,311	1.2	876.3	876.3	876.3	0.0
CN	223,696	373	1,426	1.1	876.4	876.4	876.4	0.0
CO	224,058	179	809	2.6	876.5	876.5	876.5	0.0
CP	224,438	252	570	2.8	876.9	876.9	876.9	0.0
CQ	224,954	119	917	4.6	879.0	879.0	879.0	0.0
CR	225,329	249	581	3.1	881.8	881.8	881.8	0.0
CS	225,861	293	899	1.8	882.8	882.8	882.8	0.0
CT	226,394	201	515	3.1	883.4	883.4	883.4	0.0
CU	227,555	216	501	3.4	887.9	887.9	887.9	0.0
CV	227,862	49	281	7.9	889.7	889.7	889.7	0.0
CW	228,438	291	891	1.8	893.9	893.9	893.9	0.0
CX	229,468	113	517	3.6	895.4	895.4	895.4	0.0
CY	230,453	48	341	6.3	898.6	898.6	898.6	0.0
CZ	231,437	65	537	4.5	901.4	901.4	901.4	0.0

¹Distances are measured in feet above confluence with Rock River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: KOSHKONONG CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
DA	232,397	642	1,883	0.9	902.1	902.1	902.1	0.0
DB	233,501	682	2,021	0.8	902.2	902.2	902.2	0.0
DC	235,192	989	3,761	0.6	902.6	902.6	902.6	0.0
DD	237,450	680	3,484	0.7	902.6	902.6	902.6	0.0
DE	238,882	826	1,847	0.8	903.7	903.7	903.7	0.0
DF	240,357	2,052	9,379	0.2	903.8	903.8	903.8	0.0
DG	242,151	2,861	14,966	0.1	903.8	903.8	903.8	0.0
DH	244,263	1,783	6,004	0.3	903.8	903.8	903.8	0.0
DI	245,231	816	8,662	1.4	905.7	905.7	905.7	0.0
DJ	246,139	221	11,098	2.8	906.4	906.4	906.4	0.0
DK	246,522	160	567	3.8	907.1	907.1	907.1	0.0
DL	247,668	204	1,402	2.3	909.1	909.1	909.1	0.0
DM	248,802	670	2,295	0.6	910.6	910.6	910.6	0.0
DN	250,206	421	1,152	1.1	911.0	911.0	911.0	0.0
DO	250,836	387	950	0.9	911.2	911.2	911.2	0.0
DP	251,960	195	382	2.2	911.6	911.6	911.6	0.0
DQ	253,074	445	1,507	0.8	912.2	912.2	912.2	0.0
DR	254,122	38	1,607	4.1	913.4	913.4	913.4	0.0
DS	255,832	442	1,217	0.7	914.2	914.2	914.2	0.0
DT	256,820	43	3,151	4.5	914.6	914.6	914.6	0.0
DU	257,868	46	2,909	2.9	916.2	916.2	916.2	0.0
DV	258,772	65	944	2.7	917.0	917.0	917.0	0.0
DW	260,195	179	491	1.7	919.4	919.4	919.4	0.0
DX	261,124	841	3,221	0.3	919.6	919.6	919.6	0.0
DY	262,980	1,846	7,657	0.1	919.6	919.6	919.6	0.0
DZ	265,046	1,501	6,243	0.2	919.6	919.6	919.6	0.0

¹Distances are measured in feet above confluence with Rock River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: KOSHKONONG CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
EA	266,678	1,748	7,513	0.1	919.6	919.6	919.6	0.0
EB	268,571	1,480	5,952	0.2	919.6	919.6	919.6	0.0
EC	270,350	634	5,431	0.4	919.6	919.6	919.6	0.0
ED	271,338	1,458	4,498	0.3	920.0	920.0	920.0	0.0
EE	273,014	455	703	1.2	920.1	920.1	920.1	0.0
EF	274,971	613	952	1.0	920.8	920.8	920.8	0.0
EG	276,010	542	1,318	0.9	922.1	922.1	922.1	0.0
EH	276,977	267	255	1.2	922.5	922.5	922.5	0.0
EI	277,989	54	120	2.5	923.7	923.7	923.7	0.0
EJ	278,689	25	78	3.9	927.7	927.7	927.7	0.0
EK	279,298	28	98	3.6	929.7	929.7	929.7	0.0
EL	280,027	28	124	3.3	935.2	935.2	935.2	0.0
EM	281,083	37	66	4.5	941.5	941.5	941.5	0.0
EN	281,633	30	60	5.1	949.7	949.7	949.7	0.0
EO	281,904	71	239	2.0	952.3	952.3	952.3	0.0
EP	281,981	53	187	3.0	952.4	952.4	952.4	0.0
EQ	282,123	187	337	1.1	952.6	952.6	952.6	0.0
ER	282,918	121	215	1.7	953.8	953.8	953.8	0.0
ES	283,484	203	268	1.1	954.2	954.2	954.2	0.0
ET	283,814	378	703	0.4	954.3	954.3	954.3	0.0
EU	284,861	208	280	1.1	955.9	955.9	955.9	0.0
EV	285,283	55	116	2.6	956.2	956.2	956.2	0.0
EW	286,222	351	486	0.7	960.1	960.1	960.1	0.0
EX	287,105	1,284	3,016	0.1	960.2	960.2	960.2	0.0

¹Distances are measured in feet above confluence with Rock River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: KOSHKONONG CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,856	370	9,874	0.6	847.1	847.1	847.1	0.0
B	2,803	2,264	10,153	0.1	847.1	847.1	847.1	0.0
C	3,895	2,386	6,645	0.1	847.1	847.1	847.1	0.0
D	4,791	2,189	2,990	0.1	847.1	847.1	847.1	0.0
E	5,997	534	974	0.9	848.2	848.2	848.2	0.0
F	6,880	220	900	1.7	850.6	850.6	850.6	0.0
G	7,967	195	293	1.4	853.0	853.0	853.0	0.0
H	8,999	199	343	1.2	854.9	854.9	854.9	0.0
I	10,391	77	482	2.3	856.7	856.7	856.7	0.0
J	10,499	72	557	1.7	858.0	858.0	858.0	0.0

¹Distances are measured in feet above confluence with Yahara River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: LEUTENS CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	42,419	183	918	2.6	827.3	827.3	827.3	0.0
B	43,284	183	1,048	2.3	828.0	828.0	828.0	0.0
C	46,526	531	2,243	1.0	829.2	829.2	829.2	0.0
D	48,342	322	1,202	1.9	829.5	829.5	829.5	0.0
E	50,949	212	1,088	2.1	832.1	832.1	832.1	0.0
F	53,475	268	885	2.6	833.6	833.6	833.6	0.0
G	54,148	78	526	4.4	834.4	834.4	834.4	0.0
H	54,351	230	1,177	2.0	835.2	835.2	835.2	0.0
I	56,352	226	926	2.5	836.3	836.3	836.3	0.0
J	56,569	68	482	4.8	837.0	837.0	837.0	0.0
K	56,880	117	652	3.6	837.5	837.5	837.5	0.0
L	57,850	368	1,190	2.0	838.1	838.1	838.1	0.0
M	58,839	152	697	3.3	839.2	839.2	839.2	0.0
N	59,233	144	859	2.7	839.8	839.8	839.8	0.0
O	60,408	182	871	2.7	840.7	840.7	840.7	0.0
P	62,268	603	2,346	1.0	841.3	841.3	841.3	0.0
Q	64,437	228	1,301	1.8	842.0	842.0	842.0	0.0
R	64,952	217	1,669	1.4	842.6	842.6	842.6	0.0
S	65,934	245	1,647	1.4	843.0	843.0	843.0	0.0
T	66,726	281	1,781	1.3	843.5	843.5	843.5	0.0
U	70,440	267	1,738	1.2	843.6	843.6	843.6	0.0
V	70,792	230	1,209	1.8	844.2	844.2	844.2	0.0
W	72,016	180	1,000	2.2	844.5	844.5	844.5	0.0
X	72,374	337	2,727	0.8	852.5	852.5	852.5	0.0
Y	76,374	328	1,890	1.1	852.6	852.6	852.6	0.0
Z	80,122	205	978	2.2	852.7	852.7	852.7	0.0

¹Distances are measured in feet above confluence with Crawfish River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: MAUNESHA RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	80,478	222	1,430	1.5	853.2	853.2	853.2	0.0
AB	81,317	394	1,303	1.6	853.4	853.4	853.4	0.0
AC	82,057	237	963	2.2	854.0	854.0	854.0	0.0
AD	82,444	385	1,632	1.3	854.7	854.7	854.7	0.0
AE	83,623	510	1,947	1.1	854.9	854.9	854.9	0.0
AF	84,802	216	910	2.3	855.5	855.5	855.5	0.0
AG	85,248	415	2,114	1.0	856.5	856.5	856.5	0.0
AH	87,892	370	1,700	1.2	856.9	856.9	856.9	0.0
AI	88,169	180	1,126	1.9	857.4	857.4	857.4	0.0
AJ	89,840	524	3,851	0.5	858.0	858.0	858.0	0.0
AK	92,959	1,368	10,276	0.2	858.0	858.0	858.0	0.0

¹Distances are measured in feet above confluence with Crawfish River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: MAUNESHA RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	860	137	742	0.8	851.9	851.9	851.9	0.0
B	1,160	223	1,262	0.5	851.9	851.9	851.9	0.0
C	1,680	248	1,439	0.4	852.0	852.0	852.0	0.0
D	2,060	165	938	0.6	852.0	852.0	852.0	0.0
E	2,570	34	233	2.4	852.0	852.0	852.0	0.0
F	3,040	30	187	3.0	852.1	852.1	852.1	0.0
G	3,450	35	149	3.7	853.0	853.0	853.0	0.0
H	3,700	33	259	2.1	853.3	853.3	853.3	0.0

¹Distances are measured in feet above confluence with East Branch Starkweather Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: MILWAUKEE STREET TRIBUTARY

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	7,367	1,255	2,959	0.9	846.2	846.2	846.2	0.0
B	8,457	879	4,742	0.6	846.2	846.2	846.2	0.0
C	9,137	604	3,452	0.8	846.3	846.3	846.3	0.0
D	9,359	572	4,010	0.7	847.8	847.8	847.8	0.0
E	10,632	1,844	10,620	0.3	847.8	847.8	847.8	0.0
F	11,624	1,688	7,205	0.4	847.8	847.8	847.8	0.0
G	13,563	482	1,996	1.5	847.8	847.8	847.8	0.0
H	13,845	1,143	3,396	0.8	847.9	847.9	847.9	0.0
I	16,037	71	468	10.5	848.0	848.0	848.0	0.0
J	17,075	514	1,606	1.7	851.6	851.6	851.6	0.0

¹Distances are measured in feet above confluence with Koshkonong Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: MUD CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,973	8	3,609	4.1	846.8	846.8	846.8	0.0
B	3,050	335	3,129	0.1	847.1	847.1	847.1	0.0
C	4,311	258	3,502	0.2	847.1	847.1	847.1	0.0

¹Distances are measured in feet above confluence with Mud Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: MUD CREEK NORTH FORK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,234	11	913	6.5	849.5	849.5	849.5	0.0
B	4,433	486	786	0.2	850.6	850.6	850.6	0.0
C	4,943	251	2,596	0.1	854.8	854.8	854.8	0.0
D	7,078	89	680	0.6	854.8	854.8	854.8	0.0

¹Distances are measured in feet above confluence with Mud Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: MUD CREEK WEST CHANNEL

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	1,449	2,905	0.7	886.5	886.5	886.5	0.0
B	1,060	2,252	3,946	1.2	886.7	886.7	886.7	0.0
C	2,090	284	813	2.2	887.1	887.1	887.1	0.0
D	2,981	78	689	2.5	888.1	888.1	888.1	0.0
E	3,075	48	514	4.5	888.1	888.1	888.1	0.0
F	3,736	237	616	3.2	889.4	889.4	889.4	0.0
G	4,543	47	658	4.7	890.8	890.8	890.8	0.0
H	5,673	87	251	4.2	893.2	893.2	893.2	0.0
I	6,924	48	205	4.4	895.5	895.5	895.5	0.0
J	7,716	55	236	3.8	896.8	896.8	896.8	0.0
K	8,991	43	199	3.9	898.2	898.2	898.2	0.0
L	9,816	41	183	4.3	899.4	899.4	899.4	0.0
M	9,985	44	256	3.8	899.7	899.7	899.7	0.0
N	10,341	42	225	3.8	900.1	900.1	900.1	0.0
O	10,599	43	220	3.8	900.8	900.8	900.8	0.0
P	11,816	42	185	4.2	902.4	902.4	902.4	0.0
Q	13,021	49	189	4.1	904.3	904.3	904.3	0.0
R	13,899	53	141	5.6	906.8	906.8	906.8	0.0
S	14,031	51	197	4.9	907.8	907.8	907.8	0.0
T	14,660	73	157	5.0	909.6	909.6	909.6	0.0
U	15,290	102	204	3.8	911.4	911.4	911.4	0.0
V	16,609	54	184	4.3	914.1	914.1	914.1	0.0
W	17,468	114	323	2.6	915.8	915.8	915.8	0.0
X	18,111	965	1,975	0.7	916.3	916.3	916.3	0.0
Y	20,537	292	1,279	1.6	917.5	917.5	917.5	0.0
Z	22,406	298	853	1.7	918.5	918.5	918.5	0.0

¹Distances are measured in feet above confluence with Badfish Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: OREGON BRANCH BADFISH CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	24,327	45	536	3.7	920.1	920.1	920.1	0.0
AB	26,525	40	298	4.6	922.4	922.4	922.4	0.0
AC	27,531	45	546	3.8	924.1	924.1	924.1	0.0
AD	28,572	41	159	1.4	924.7	924.7	924.7	0.0
AE	29,280	23	80	2.8	924.9	924.9	924.9	0.0
AF	29,742	18	52	4.3	925.4	925.4	925.4	0.0
AG	30,242	24	66	3.4	926.4	926.4	926.4	0.0
AH	30,755	39	88	2.7	927.0	927.0	927.0	0.0
AI	31,409	61	209	2.1	928.6	928.6	928.6	0.0
AJ	33,550	166	411	0.6	936.9	936.9	936.9	0.0
AK	33,936	134	1,098	0.6	937.4	937.4	937.4	0.0
AL	34,258	415	1,027	0.3	937.4	937.4	937.4	0.0
AM	34,819	264	1,104	0.5	937.4	937.4	937.4	0.0
AN	35,128	405	2,000	0.4	937.4	937.4	937.4	0.0
AO	35,850	991	1,086	0.4	937.5	937.5	937.5	0.0
AP	36,866	1,058	1,439	0.1	937.6	937.6	937.6	0.0
AQ	37,830	187	646	1.3	937.5	937.5	937.5	0.0

¹Distances are measured in feet above confluence with Badfish Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: OREGON BRANCH BADFISH CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	237	397	1,478	0.3	860.3	860.3	860.3	0.0
B	505	189	681	1.3	860.3	860.3	860.3	0.0
C	768	100	876	1.2	860.4	860.4	860.4	0.0
D	1,330	703	812	0.9	860.5	860.5	860.5	0.0
E	3,205	59	174	3.4	861.4	861.4	861.4	0.0
F	3,337	163	445	5.7	862.9	862.9	862.9	0.0
G	7,390	45	210	5.1	863.7	863.7	863.7	0.0
H	7,644	91	272	3.1	865.4	865.4	865.4	0.0
I	9,461	1,101	2,566	0.3	866.4	866.4	866.4	0.0
J	13,550	197	365	2.5	867.1	867.1	867.1	0.0
K	15,410	449	798	7.3	871.2	871.2	871.2	0.0
L	15,533	516	1,362	0.2	878.1	878.1	878.1	0.0
M	15,545	1,028	1,367	0.2	878.1	878.1	878.1	0.0
N	15,642	1,195	3,529	0.1	878.1	878.1	878.1	0.0
O	18,183	773	2,647	0.2	878.1	878.1	878.1	0.0

¹Distances are measured in feet above confluence with Unnamed Tributary to Lake Waubesa

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: PENNITO CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	544	291	430	3.0	853.1	853.1	853.1	0.0
B	1,704	630	1,415	0.9	854.4	854.4	854.4	0.0
C	5,083	280	338	2.8	856.3	856.3	856.3	0.0
D	8,223	54	89	10.7	869.8	869.8	869.8	0.0
E	8,483	90	195	4.9	875.0	875.0	875.0	0.0
F	11,133	278	133	7.0	886.1	886.1	886.1	0.0
G	11,893	80	269	3.5	911.8	911.8	911.8	0.0
H	13,193	180	275	3.4	913.3	913.3	913.3	0.0
I	14,193	119	299	3.1	914.0	914.0	914.0	0.0
J	15,243	257	1,048	0.9	914.6	914.6	914.6	0.0
K	16,138	73	490	1.9	914.8	914.8	914.8	0.0
L	16,668	62	295	3.2	915.0	915.0	915.0	0.0
M	17,338	388	3,741	0.3	915.7	915.7	915.7	0.0
N	20,638	392	2,542	0.3	915.7	915.7	915.7	0.0
O	24,463	341	1,600	0.7	918.2	918.2	918.2	0.0
P	25,703	120	412	2.7	920.8	920.8	920.8	0.0
Q	26,525	485	3,385	0.4	923.4	923.4	923.4	0.0
R	27,790	804	1,342	1.1	925.4	925.4	925.4	0.0
S	28,468	918	476	3.1	925.7	925.7	925.7	0.0
T	32,358	273	413	3.5	935.6	935.6	935.6	0.0
U	34,708	848	1,927	0.8	943.2	943.2	943.2	0.0
V	35,758	754	1,080	1.3	943.6	943.6	943.6	0.0
W	39,258	730	397	3.7	950.0	950.0	950.0	0.0

¹Distances are measured in feet above confluence with Lake Mendota

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: PHEASANT BRANCH

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,079	1,309	3,268	0.3	862.0	860.5 ²	860.5	0.0
B	1,715	745	1,662	0.6	862.0	860.5 ²	860.5	0.0
C	2,115	473	869	1.0	862.0	860.6 ²	860.6	0.0
D	2,400	392	460	1.4	862.0	861.0 ²	861.0	0.0
E	2,992	510	618	0.9	862.0	861.6 ²	861.6	0.0
F	3,711	595	306	1.8	862.4	862.4	862.4	0.0
G	4,401	108	239	2.3	864.0	864.0	864.0	0.0
H	5,020	101	126	4.3	868.9	868.9	868.9	0.0
I	6,474	115	175	4.1	883.6	883.6	883.6	0.0
J	7,607	39	92	5.9	893.3	893.3	893.3	0.0

¹Distances are measured in feet above confluence with West Branch Starkweather Creek

²Elevation computed without consideration of backwater effects from West Branch Starkweather Creek

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY DANE COUNTY, WISCONSIN AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: PORTAGE ROAD TRIBUTARY

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	22,839	728	2,847	0.8	823.2	823.2	823.2	0.0
B	26,360	2,557	8,585	0.2	823.3	823.3	823.3	0.0
C	31,716	3,182	14,305	0.2	823.3	823.3	823.3	0.0
D	33,826	1,794	3,285	0.5	823.4	823.4	823.4	0.0
E	34,686	1,226	1,044	1.5	825.7	825.7	825.7	0.0
F	35,512	735	888	1.7	827.2	827.2	827.2	0.0
G	36,494	95	1,288	5.1	829.2	829.2	829.2	0.0
H	36,643	495	2,816	0.7	831.9	831.9	831.9	0.0
I	36,956	493	2,182	0.7	832.0	832.0	832.0	0.0
J	37,614	398	1,558	1.0	832.1	832.1	832.1	0.0
K	38,992	514	1,740	0.9	832.5	832.5	832.5	0.0
L	40,146	520	1,174	1.3	833.0	833.0	833.0	0.0
M	40,699	382	920	1.7	834.0	834.0	834.0	0.0
N	41,409	269	1,618	1.2	837.0	837.0	837.0	0.0
O	41,870	296	1,207	1.3	837.2	837.2	837.2	0.0
P	42,182	397	1,519	1.0	837.4	837.4	837.4	0.0
Q	43,153	290	1,204	1.5	839.5	839.5	839.5	0.0
R	44,127	524	2,555	0.6	841.0	841.0	841.0	0.0
S	44,872	589	2,407	0.6	841.1	841.1	841.1	0.0
T	45,874	584	2,005	0.6	841.2	841.2	841.2	0.0
U	47,027	437	1,006	1.2	841.6	841.6	841.6	0.0
V	47,832	409	874	1.3	842.8	842.8	842.8	0.0
W	48,437	362	925	1.3	843.6	843.6	843.6	0.0
X	48,790	310	709	1.6	843.8	843.8	843.8	0.0
Y	49,049	334	789	1.5	844.0	844.0	844.0	0.0
Z	49,329	333	804	1.4	844.1	844.1	844.1	0.0

¹Distances are measured in feet above confluence with Rock River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SAUNDERS CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	49,840	311	673	1.7	844.5	844.5	844.5	0.0
AB	50,275	331	640	2.3	845.0	845.0	845.0	0.0
AC	51,102	371	1,161	1.1	846.1	846.1	846.1	0.0
AD	52,010	478	1,099	1.1	846.9	846.9	846.9	0.0
AE	53,627	415	823	1.4	848.9	848.9	848.9	0.0
AF	55,112	417	874	1.3	851.3	851.3	851.3	0.0
AG	56,056	378	1,185	1.5	852.4	852.4	852.4	0.0
AH	56,172	317	1,365	2.5	854.5	854.5	854.5	0.0
AI	57,048	429	1,532	0.8	855.1	855.1	855.1	0.0
AJ	57,842	391	1,586	1.0	855.4	855.4	855.4	0.0
AK	58,938	255	696	1.7	856.0	856.0	856.0	0.0
AL	59,120	310	698	1.7	856.3	856.3	856.3	0.0
AM	59,193	348	831	1.4	856.6	856.6	856.6	0.0
AN	60,220	629	1,448	0.8	857.5	857.5	857.5	0.0
AO	61,149	416	886	1.2	858.0	858.0	858.0	0.0
AP	62,147	249	604	1.8	859.2	859.2	859.2	0.0
AQ	62,732	495	2,863	0.5	862.0	862.0	862.0	0.0
AR	63,951	930	1,994	0.5	862.1	862.1	862.1	0.0
AS	64,954	751	1,782	0.7	862.3	862.3	862.3	0.0
AT	65,853	477	1,341	1.0	862.6	862.6	862.6	0.0
AU	66,246	397	1,430	1.3	862.9	862.9	862.9	0.0
AV	67,269	352	1,255	0.9	864.8	864.8	864.8	0.0
AW	67,798	563	1,325	0.7	864.9	864.9	864.9	0.0
AX	68,133	548	902	1.0	865.0	865.0	865.0	0.0
AY	68,673	462	804	1.2	865.4	865.4	865.4	0.0
AZ	68,990	391	1,527	0.7	867.4	867.4	867.4	0.0

¹Distances are measured in feet above confluence with Rock River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SAUNDERS CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BA	69,839	823	1,986	0.5	867.6	867.6	867.6	0.0
BB	70,859	977	2,390	0.4	867.7	867.7	867.7	0.0
BC	71,900	565	2,360	0.8	867.8	867.8	867.8	0.0
BD	72,553	1,311	5,597	0.3	868.0	868.0	868.0	0.0
BE	73,607	1,629	1,767	0.5	868.1	868.1	868.1	0.0

¹Distances are measured in feet above confluence with Rock River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SAUNDERS CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	7,167	518	2,365	1.1	854.1	854.1	854.1	0.0
B	11,243	449	1,533	1.7	854.6	854.6	854.6	0.0
C	18,950	401	1,053	2.4	858.9	858.9	858.9	0.0
D	19,267	323	1,078	2.3	859.1	859.1	859.1	0.0
E	20,291	383	3,021	0.8	862.9	862.9	862.9	0.0
F	21,000	133	1,056	2.4	862.9	862.9	862.9	0.0
G	22,634	498	2,116	1.2	863.3	863.3	863.3	0.0
H	26,420	388	944	2.7	864.0	864.0	864.0	0.0
I	28,155	476	1,077	2.3	866.0	866.0	866.0	0.0
J	30,054	32	289	6.7	874.6	874.6	874.6	0.0
K	30,904	106	982	6.6	879.8	879.8	879.8	0.0
L	33,095	181	507	4.1	887.3	887.3	887.3	0.0
M	33,824	120	525	4.9	889.2	889.2	889.2	0.0
N	40,714	454	1,465	1.5	898.1	898.1	898.1	0.0
O	40,804	412	1,476	1.6	898.1	898.1	898.1	0.0
P	40,884	185	1,806	2.1	898.9	898.9	898.9	0.0
Q	41,522	53	758	5.8	899.2	899.2	899.2	0.0
R	42,644	63	482	4.9	902.2	902.2	902.2	0.0
S	42,831	85	210	8.4	902.3	902.3	902.3	0.0
T	43,067	79	418	4.4	903.8	903.8	903.8	0.0
U	43,926	98	348	3.8	905.0	905.0	905.0	0.0
V	45,072	204	331	4.0	908.3	908.3	908.3	0.0
W	45,328	62	400	3.3	909.2	909.2	909.2	0.0
X	45,686	135	432	3.1	909.4	909.4	909.4	0.0
Y	46,302	213	425	3.1	909.9	909.9	909.9	0.0
Z	46,773	56	486	2.7	910.4	910.4	910.4	0.0

¹Distances are measured in feet above confluence with Lake Mendota

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SIXMILE CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	46,974	49	946	3.2	910.7	910.7	910.7	0.0
AB	48,074	153	636	2.1	911.1	911.1	911.1	0.0
AC	48,108	144	429	3.1	911.4	911.4	911.4	0.0
AD	48,716	145	523	2.8	912.1	912.1	912.1	0.0
AE	48,943	149	258	5.4	913.2	913.2	913.2	0.0
AF	49,540	155	585	2.6	914.6	914.6	914.6	0.0
AG	49,753	204	632	2.5	914.8	914.8	914.8	0.0
AH	50,079	80	1,740	2.5	916.8	916.8	916.8	0.0
AI	54,579	588	1,471	0.7	917.1	917.1	917.1	0.0
AJ	56,829	579	4,667	0.4	920.7	920.7	920.7	0.0
AK	61,217	660	2,275	0.5	920.7	920.7	920.7	0.0
AL	63,835	316	768	1.4	921.4	921.4	921.4	0.0
AM	64,650	67	150	7.0	921.6	921.6	921.6	0.0

¹Distances are measured in feet above confluence with Lake Mendota

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SIXMILE CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	550	99	460	1.0	915.7	914.9 ²	914.9	0.0
B	2,050	60	321	1.4	918.5	918.5	918.5	0.0
C	3,066	28	169	4.7	922.1	922.1	922.1	0.0
D	3,998	25	97	4.3	929.3	929.3	929.3	0.0

¹Distances are measured in feet above confluence with Pheasant Branch

²Elevation computed without consideration of backwater effects from Pheasant Branch

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY DANE COUNTY, WISCONSIN AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: SOUTH FORK TO PHEASANT BRANCH

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	461	56	338	4.2	847.5	846.4 ²	846.4	0.0
B	1,359	87	400	3.6	847.5	847.2 ²	847.2	0.0
C	2,381	94	354	4.0	848.1	848.1	848.1	0.0

¹Distances are measured in feet above confluence with Lake Monona

²Elevation computed without consideration of backwater effects from Lake Monona

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY DANE COUNTY, WISCONSIN AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: STARKWEATHER CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)				
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,151	620	3,256	2.5	28	854.6	854.6	854.6	0.0
B	3,537	156	3,002	5.0	0	855.5	855.5	855.5	0.0
C	3,735	81	2,132	8.0	0	855.5	855.5	855.5	0.0
D	3,914	130	4,348	5.1	0	856.3	856.3	856.3	0.0
E	5,032	155	1,509	5.8	0	857.0	857.0	857.0	0.0
F	6,277	113	1,634	4.9	31	858.6	858.6	858.6	0.0
G	6,335	144	1,637	4.9	0	858.6	858.6	858.6	0.0
H	6,416	158	2,297	5.1	0	858.6	858.6	858.6	0.0
I	6,624	110	2,862	4.2	0	858.9	858.9	858.9	0.0
J	6,705	107	1,600	5.0	34	859.1	859.1	859.1	0.0
K	6,787	97	1,611	5.0	44	859.2	859.2	859.2	0.0
L	6,886	170	2,831	2.8	0	859.6	859.6	859.6	0.0
M	7,380	558	3,478	2.3	0	859.6	859.6	859.6	0.0
N	7,455	578	4,616	1.7	0	862.0	862.0	862.0	0.0
O	8,553	1,411	11,672	0.7	0	862.3	862.3	862.3	0.0
P	9,857	2,093	12,038	0.7	0	862.5	862.5	862.5	0.0
Q	11,758	894	3,276	2.4	0	863.6	863.6	863.6	0.0
R	13,835	668	4,832	1.7	0	864.5	864.5	864.5	0.0
S	21,252	2,616	11,613	0.4	0	865.3	865.3	865.3	0.0
T	24,046	1,446	5,521	0.9	0	865.5	865.5	865.5	0.0
U	25,534	1,459	3,365	1.4	0	865.9	865.9	865.9	0.0
V	28,112	798	2,070	2.3	0	868.8	868.8	868.8	0.0
W	30,170	686	2,661	1.8	0	870.6	870.6	870.6	0.0
X	35,191	506	1,246	3.8	0	873.4	873.4	873.4	0.0
Y	35,262	400	1,583	3.0	0	874.5	874.5	874.5	0.0
Z	35,496	394	2,461	1.9	0	874.8	874.8	874.8	0.0

¹Distances are measured in feet above approximately 1,140 feet downstream from county boundary

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SUGAR RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	36,949	880	3,220	1.5	875.3	875.3	875.3	0.0
AB	38,651	786	3,608	1.3	876.5	876.5	876.5	0.0
AC	39,730	252	1,165	8.7	876.5	876.5	876.5	0.0
AD	39,828	167	1,271	5.9	877.9	877.9	877.9	0.0
AE	39,838	146	1,491	4.8	878.2	878.2	878.2	0.0
AF	39,937	118	1,598	4.7	878.3	878.3	878.3	0.0
AG	42,282	954	2,801	1.7	880.8	880.8	880.8	0.0
AH	43,401	660	2,940	1.7	881.4	881.4	881.4	0.0
AI	45,906	980	2,005	2.6	882.9	882.9	882.9	0.0
AJ	48,813	652	2,962	1.7	885.3	885.3	885.3	0.0
AK	52,868	884	2,503	2.2	888.1	888.1	888.1	0.0
AL	53,850	524	2,252	2.3	889.3	889.3	889.3	0.0
AM	55,454	673	3,027	2.0	890.8	890.8	890.8	0.0
AN	58,715	521	4,569	2.7	893.6	893.6	893.6	0.0
AO	62,009	199	1,324	4.6	897.6	897.6	897.6	0.0
AP	62,122	87	1,552	4.1	898.2	898.2	898.2	0.0
AQ	62,230	178	1,892	3.1	898.4	898.4	898.4	0.0
AR	62,750	144	1,232	4.7	898.6	898.6	898.6	0.0
AS	62,835	104	1,331	5.5	898.9	898.9	898.9	0.0
AT	62,920	82	1,427	4.3	899.1	899.1	899.1	0.0
AU	63,034	159	1,497	3.4	899.3	899.3	899.3	0.0
AV	65,213	775	5,781	1.5	901.2	901.2	901.2	0.0
AW	65,314	765	6,104	1.4	901.5	901.5	901.5	0.0
AX	65,382	768	7,569	1.2	902.0	902.0	902.0	0.0
AY	66,810	878	4,788	1.7	902.6	902.6	902.6	0.0
AZ	69,325	777	2,892	2.7	905.1	905.1	905.1	0.0

¹Distances are measured in feet above approximately 1,140 feet downstream from county boundary

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SUGAR RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BA	70,030	1,004	2,638	1.9	906.3	906.3	906.3	0.0
BB	72,808	333	2,522	2.0	908.1	908.1	908.1	0.0
BC	73,667	321	877	4.7	909.0	909.0	909.0	0.0
BD	73,960	389	1,348	3.4	909.6	909.6	909.6	0.0
BE	74,049	385	1,364	3.4	909.7	909.7	909.7	0.0
BF	75,088	607	2,653	1.9	911.0	911.0	911.0	0.0
BG	79,894	1,507	2,577	1.6	914.3	914.3	914.3	0.0
BH	81,164	1,437	1,857	2.2	915.2	915.2	915.2	0.0
BI	81,213	1,430	1,968	2.1	915.3	915.3	915.3	0.0
BJ	81,347	1,464	5,003	0.8	915.7	915.7	915.7	0.0
BK	84,236	628	6,638	1.3	916.2	916.2	916.2	0.0
BL	85,296	435	2,295	2.4	916.6	916.6	916.6	0.0
BM	86,474	477	2,596	2.3	917.6	917.6	917.6	0.0
BN	87,520	228	1,559	3.2	918.4	918.4	918.4	0.0
BO	89,551	200	5,782	3.9	920.6	920.6	920.6	0.0
BP	89,653	96	1,085	5.8	920.6	920.6	920.6	0.0
BQ	89,694	79	1,112	5.7	920.7	920.7	920.7	0.0
BR	89,746	130	3,173	4.4	920.9	920.9	920.9	0.0
BS	90,005	702	2,937	0.9	921.2	921.2	921.2	0.0
BT	91,072	516	1,751	1.3	921.5	921.5	921.5	0.0
BU	92,819	870	3,282	0.7	921.8	921.8	921.8	0.0
BV	94,331	645	2,737	0.9	922.0	922.0	922.0	0.0
BW	96,164	739	1,643	1.7	922.2	922.2	922.2	0.0
BX	97,852	514	2,535	1.2	922.9	922.9	922.9	0.0
BY	98,575	129	1,100	3.8	923.0	923.0	923.0	0.0
BZ	98,721	99	1,038	4.8	923.3	923.3	923.3	0.0

¹Distances are measured in feet above approximately 1,140 feet downstream from county boundary

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SUGAR RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CA	99,748	486	2,326	1.0	924.2	924.2	924.2	0.0
CB	101,191	943	2,810	0.8	924.5	924.5	924.5	0.0
CC	103,071	1,251	3,623	0.6	924.7	924.7	924.7	0.0
CD	105,439	938	2,702	0.7	924.8	924.8	924.8	0.0
CE	108,021	1,494	4,266	0.5	925.1	925.1	925.1	0.0
CF	110,230	147	4,376	4.1	926.2	926.2	926.2	0.0

¹Distances are measured in feet above approximately 1,140 feet downstream from county boundary

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SUGAR RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	3,079	2,947	7,319	0.1	853.7	853.7	853.7	0.0
B	5,838	1,540	2,612	0.5	853.8	853.8	853.8	0.0
C	7,718	940	2,192	0.6	854.9	854.9	854.9	0.0
D	9,947	522	1,252	0.7	856.6	856.6	856.6	0.0
E	12,388	495	1,275	0.8	857.5	857.5	857.5	0.0
F	14,489	687	1,473	0.6	857.9	857.9	857.9	0.0
G	15,184	536	521	1.7	858.2	858.2	858.2	0.0
H	16,061	110	1,246	2.2	859.3	859.3	859.3	0.0
I	16,941	69	332	2.4	859.7	859.7	859.7	0.0
J	17,778	142	848	2.3	860.3	860.3	860.3	0.0
K	18,315	401	1,092	2.0	861.0	861.0	861.0	0.0
L	19,108	287	792	2.7	862.4	862.4	862.4	0.0
M	20,922	727	2,747	0.8	865.0	865.0	865.0	0.0
N	22,067	1,035	3,244	0.7	865.2	865.2	865.2	0.0
O	23,224	1,538	6,494	0.5	865.3	865.3	865.3	0.0
P	24,166	1,403	4,483	0.5	865.4	865.4	865.4	0.0
Q	25,050	960	3,774	0.8	865.5	865.5	865.5	0.0
R	26,119	1,118	3,914	0.8	865.8	865.8	865.8	0.0
S	26,969	895	2,354	1.0	866.1	866.1	866.1	0.0
T	28,347	830	1,708	1.3	867.1	867.1	867.1	0.0
U	29,616	554	1,760	0.8	867.8	867.8	867.8	0.0
V	30,392	465	1,433	0.9	867.9	867.9	867.9	0.0
W	31,494	831	2,394	0.6	868.1	868.1	868.1	0.0
X	32,570	702	2,166	0.7	868.3	868.3	868.3	0.0
Y	34,469	246	2,665	1.7	868.8	868.8	868.8	0.0
Z	34,840	253	2,455	1.5	870.2	870.2	870.2	0.0

¹Distances are measured in feet above confluence with Yahara River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: TOKEN CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	35,639	620	2,933	0.6	870.4	870.4	870.4	0.0
AB	37,438	686	2,219	0.6	872.4	872.4	872.4	0.0
AC	38,658	230	431	3.1	873.2	873.2	873.2	0.0
AD	39,626	421	934	1.4	875.5	875.5	875.5	0.0
AE	40,667	313	695	1.9	876.6	876.6	876.6	0.0
AF	41,682	912	1,865	0.7	877.5	877.5	877.5	0.0
AG	42,552	266	640	2.0	877.9	877.9	877.9	0.0
AH	43,427	442	1,048	1.1	879.1	879.1	879.1	0.0
AI	44,483	193	457	2.4	880.5	880.5	880.5	0.0
AJ	44,755	140	489	3.0	881.2	881.2	881.2	0.0
AK	45,004	189	1,074	1.6	883.0	883.0	883.0	0.0
AL	45,950	295	667	1.7	884.7	884.7	884.7	0.0
AM	46,679	307	747	1.5	886.2	886.2	886.2	0.0
AN	47,549	533	1,089	1.0	887.2	887.2	887.2	0.0
AO	48,931	390	838	1.3	888.7	888.7	888.7	0.0
AP	50,117	468	918	1.2	890.2	890.2	890.2	0.0
AQ	51,846	500	1,524	0.7	896.0	896.0	896.0	0.0
AR	52,639	340	745	1.5	896.6	896.6	896.6	0.0
AS	52,894	358	867	1.3	897.1	897.1	897.1	0.0
AT	53,304	241	477	2.3	897.8	897.8	897.8	0.0
AU	54,152	450	632	1.8	901.6	901.6	901.6	0.0
AV	54,880	393	561	1.6	904.1	904.1	904.1	0.0
AW	55,644	149	250	3.6	907.4	907.4	907.4	0.0
AX	56,770	245	403	2.2	913.3	913.3	913.3	0.0
AY	57,391	129	439	2.6	915.9	915.9	915.9	0.0
AZ	57,518	199	1,272	0.8	921.1	921.1	921.1	0.0
BA	57,825	209	689	1.3	921.1	921.1	921.1	0.0

¹Distances are measured in feet above confluence with Yahara River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: TOKEN CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	817	453	890	0.8	784.9	782.1 ²	782.1	0.0
B	1,228	257	474	1.6	784.9	783.3 ²	783.3	0.0
C	1,630	179	396	1.9	786.1	786.1	786.1	0.0
D	2,104	145	387	1.9	789.5	789.5	789.5	0.0
E	2,399	194	348	2.1	790.9	790.9	790.9	0.0
F	2,992	199	390	1.9	793.4	793.4	793.4	0.0
G	3,297	237	399	1.9	794.8	794.8	794.8	0.0
H	3,871	148	296	3.0	797.6	797.6	797.6	0.0
I	4,092	255	366	2.0	798.8	798.8	798.8	0.0
J	4,451	215	415	2.1	800.6	800.6	800.6	0.0
K	4,492	212	235	3.2	800.8	800.8	800.8	0.0
L	4,735	184	251	3.0	803.4	803.4	803.4	0.0
M	4,966	75	138	5.4	805.6	805.6	805.6	0.0
N	5,358	407	2,615	0.3	812.5	812.5	812.5	0.0
O	6,164	1,530	5,529	0.1	812.6	812.6	812.6	0.0
P	6,965	1,610	7,216	0.1	812.6	812.6	812.6	0.0

¹Distances are measured in feet above confluence with Lake Koshkonong

²Elevation computed without consideration of backwater effects from Lake Koshkonong

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY DANE COUNTY, WISCONSIN AND INCORPORATED AREAS	FLOODWAY DATA FLOODING SOURCE: UNNAMED TRIBUTARY TO LAKE KOSHKONONG
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LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	596	264	1,572	2.3	848.9	848.9	848.9	0.0
B	2,124	598	1,745	0.6	849.4	849.4	849.4	0.0
C	2,822	95	454	3.5	852.0	852.0	852.0	0.0
D	3,424	62	301	4.1	854.1	854.1	854.1	0.0
E	4,066	57	881	3.6	855.5	855.5	855.5	0.0
F	4,343	74	872	1.4	856.7	856.7	856.7	0.0
G	6,919	754	1,237	3.5	857.3	857.3	857.3	0.0
H	7,160	485	1,432	2.2	858.6	858.6	858.6	0.0
I	8,743	69	586	2.9	859.1	859.1	859.1	0.0
J	8,831	145	1,019	2.7	859.9	859.9	859.9	0.0
K	11,373	556	692	1.0	860.7	860.7	860.7	0.0
L	15,435	124	411	2.5	861.6	861.6	861.6	0.0
M	15,757	317	597	0.8	862.0	862.0	862.0	0.0
N	18,967	855	1,607	0.1	862.0	862.0	862.0	0.0

¹Distances are measured in feet above confluence with Lake Waubesa

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: UNNAMED TRIBUTARY TO LAKE WAUBESA

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	600	850	2,321	0.4	901.0	901.0	901.0	0.0
B	1,380	230	302	2.7	902.0	902.0	902.0	0.0
C	1,735	103	177	4.6	904.1	904.1	904.1	0.0
D	2,269	320	837	1.0	907.2	907.2	907.2	0.0
E	2,608	317	504	1.6	907.4	907.4	907.4	0.0
F	3,048	120	282	2.9	909.2	909.2	909.2	0.0
G	3,504	152	324	1.6	913.4	913.4	913.4	0.0
H	3,928	64	128	4.0	914.4	914.4	914.4	0.0
I	4,444	143	135	3.7	920.9	920.9	920.9	0.0
J	5,133	158	211	2.4	926.0	926.0	926.0	0.0
K	6,227	135	166	3.1	933.3	933.3	933.3	0.0

¹Distances are measured in feet above confluence with Sixmile Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: UNNAMED TRIBUTARY TO SIXMILE CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	175	197	250	1.7	842.0	842.0	842.0	0.0
B	202	168	215	2.0	842.0	842.0	842.0	0.0
C	328	42	66	6.5	842.4	842.4	842.4	0.0
D	716	97	327	1.3	849.3	849.3	849.3	0.0
E	961	47	80	5.3	849.6	849.6	849.6	0.0
F	1,922	358	410	1.1	853.8	853.8	853.8	0.0
G	2,152	538	1,678	0.3	853.9	853.9	853.9	0.0
H	2,610	626	1,002	0.6	853.9	853.9	853.9	0.0
I	3,132	607	1,079	0.4	854.0	854.0	854.0	0.0

¹Distances are measured in feet above confluence with Yahara River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: UNNAMED TRIBUTARY TO YAHARA RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)				
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	330	361	5,750	0.3	319	810.4	810.4	810.4	0.0
B	341	286	2,750	0.7	125	810.4	810.4	810.4	0.0
C	597	335	2,590	0.7	55	810.4	810.4	810.4	0.0
D	1,282	613	4,650	0.4	77	810.4	810.4	810.4	0.0
E	1,386	595	3,320	0.6	41	810.4	810.4	810.4	0.0
F	1,980	539	2,650	0.7	0	810.4	810.4	810.4	0.0
G	2,444	415	2,070	0.9	0	810.4	810.4	810.4	0.0
H	2,775	398	1,200	1.5	0	810.4	810.4	810.4	0.0
I	3,458	451	1,320	1.4	0	810.7	810.7	810.7	0.0
J	4,245	256	435	4.2	0	811.4	811.4	811.4	0.0
K	4,349	0	1,080	1.7	301	813.9	813.9	813.9	0.0

¹Distances are measured in feet above confluence with Black Earth Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: VERMONT CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)				
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	3,075	174	500	1.1	0	848.9	848.9	848.9	0.0
B	3,621	20	149	3.8	0	849.1	849.1	849.1	0.0
C	4,016	51	286	2.0	0	849.4	849.4	849.4	0.0
D	4,653	56	239	2.4	0	849.6	849.6	849.6	0.0
E	4,878	40	239	2.4	0	849.7	849.7	849.7	0.0
F	5,212	78	247	2.3	0	849.8	849.8	849.8	0.0
G	5,647	73	246	2.3	0	849.9	849.9	849.9	0.0
H	6,047	176	393	1.4	0	850.1	850.1	850.1	0.0
I	6,435	22	157	3.1	0	850.4	850.4	850.4	0.0
J	6,660	29	174	2.8	0	850.5	850.5	850.5	0.0
K	6,830	39	191	2.6	0	850.7	850.7	850.7	0.0
L	6,994	63	256	1.9	0	850.8	850.8	850.8	0.0
M	7,346	113	314	1.6	0	850.9	850.9	850.9	0.0
N	7,584	16	108	4.6	0	850.9	850.9	850.9	0.0
O	7,661	16	125	3.9	0	851.1	851.1	851.1	0.0
P	8,020	209	641	0.8	0	851.4	851.4	851.4	0.0
Q	8,444	57	259	1.9	0	851.5	851.5	851.5	0.0
R	8,735	75	395	1.2	0	851.8	851.8	851.8	0.0
S	9,639	141	536	1.5	0	852.1	852.1	852.1	0.0
T	11,669	999	3,079	0.3	0	852.3	852.3	852.3	0.0
U	12,848	986	2,463	0.3	0	852.3	852.3	852.3	0.0
V	13,298	444	487	1.6	256	852.3	852.3	852.3	0.0
W	13,716	247	370	0.8	0	852.6	852.6	852.6	0.0
X	14,229	71	271	1.1	0	852.8	852.8	852.8	0.0
Y	15,486	47	188	1.6	0	853.2	853.2	853.2	0.0
Z	16,801	46	154	2.0	0	853.5	853.5	853.5	0.0

¹Distances are measured in feet above confluence with Lake Monona

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: WEST BRANCH STARKWEATHER CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)				
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	17,276	59	198	1.5	0	854.1	854.1	854.1	0.0
AB	18,386	33	172	1.8	0	854.7	854.7	854.7	0.0
AC	19,047	31	252	1.2	0	855.0	855.0	855.0	0.0
AD	19,484	55	220	1.4	0	855.4	855.4	855.4	0.0
AE	19,786	68	98	3.1	0	855.4	855.4	855.4	0.0
AF	20,019	71	130	1.8	0	855.9	855.9	855.9	0.0
AG	22,042	150	732	0.3	0	856.1	856.1	856.1	0.0
AH	23,182	136	726	0.4	0	856.3	856.3	856.3	0.0
AI	26,042	8	62	4.1	0	856.7	856.7	856.7	0.0
AJ	27,962	7	61	7.1	0	858.8	858.8	858.8	0.0
AK	29,852	185	659	0.4	0	859.1	859.1	859.1	0.0
AL	30,552	70	444	0.7	0	859.1	859.1	859.1	0.0
AM	31,432	66	417	0.8	0	859.2	859.2	859.2	0.0
AN	33,056	120	633	0.6	0	859.9	859.9	859.9	0.0
AO	33,695	95	617	0.6	0	859.9	859.9	859.9	0.0
AP	33,914	270	819	0.5	0	860.1	860.1	860.1	0.0
AQ	35,744	805	927	0.3	0	860.5	860.5	860.5	0.0
AR	36,389	798	938	0.3	0	860.6	860.6	860.6	0.0
AS	37,904	694	223	1.2	0	860.7	860.7	860.7	0.0
AT	39,494	200	160	1.6	0	862.1	862.1	862.1	0.0
AU	40,010	31	194	1.4	123	863.2	863.2	863.2	0.0
AV	41,468	45	179	1.5	58	864.6	864.6	864.6	0.0
AW	42,788	39	63	4.2	0	867.0	867.0	867.0	0.0

¹Distances are measured in feet above confluence with Lake Monona

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: WEST BRANCH STARKWEATHER CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	417,354	7,428 / 4,636	46,402	1.9	731.7	731.7	731.7	0.0
B	421,834	5,027 / 3,487	34,920	2.5	733.2	733.2	733.2	0.0
C	426,229	4,264 / 2,081	31,823	2.7	734.9	734.9	734.9	0.0
D	431,517	2,930 / 1,399	28,438	3.0	736.6	736.6	736.6	0.0
E	435,545	8,465 / 895	54,275	1.6	738.0	738.0	738.0	0.0
F	440,298	9,314 / 1,166	48,291	1.8	739.0	739.0	739.0	0.0
G	445,009	8,796 / 3,672	42,464	2.0	740.1	740.1	740.1	0.0
H	449,928	7,662 / 3,561	44,459	1.9	741.2	741.2	741.2	0.0
I	452,242	4,130 / 3,388	26,956	3.2	741.8	741.8	741.8	0.0
J	456,653	2,068 / 1,789	22,260	3.9	743.5	743.5	743.5	0.0
K	458,440	1,477 / 980	21,731	4.0	744.4	744.4	744.4	0.0
L	459,640	1,018 / 538	18,248	4.7	744.8	744.8	744.8	0.0
M	460,771	1,150 / 580	18,364	4.7	745.4	745.4	745.4	0.0
N	463,197	1,490 / 477	17,958	4.8	746.1	746.1	746.1	0.0
O	464,538	1,861 / 601	24,550	3.5	746.8	746.8	746.8	0.0
P	466,867	1,536 / 866	23,241	3.7	747.3	747.3	747.3	0.0
Q	468,751	1,362 / 1,036	19,915	4.3	747.7	747.7	747.7	0.0

¹Distances are measured in feet above confluence with Mississippi River

²Total floodway width / width within Dane County

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY DANE COUNTY, WISCONSIN AND INCORPORATED AREAS	FLOODWAY DATA FLOODING SOURCE: WISCONSIN RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	48,141	157	659	3.2	808.4	808.4	808.4	0.0
B	49,293	179	690	3.1	809.1	809.1	809.1	0.0
C	51,749	232	941	2.3	811.0	811.0	811.0	0.0
D	53,808	221	941	2.3	811.7	811.7	811.7	0.0
E	55,474	212	741	2.3	812.3	812.3	812.3	0.0
F	56,597	267	1,024	1.7	812.8	812.8	812.8	0.0
G	57,671	243	611	2.8	813.2	813.2	813.2	0.0
H	58,928	256	915	1.9	814.6	814.6	814.6	0.0
I	60,237	139	438	4.0	815.6	815.6	815.6	0.0
J	61,306	163	550	3.2	817.0	817.0	817.0	0.0
K	62,200	264	869	2.0	817.7	817.7	817.7	0.0
L	63,198	172	603	2.9	818.3	818.3	818.3	0.0
M	64,086	138	596	2.9	818.9	818.9	818.9	0.0
N	65,138	231	883	2.0	819.4	819.4	819.4	0.0
O	66,051	198	765	2.3	819.8	819.8	819.8	0.0
P	67,089	172	431	4.0	820.8	820.8	820.8	0.0
Q	68,300	184	799	2.2	822.1	822.1	822.1	0.0
R	69,515	186	832	2.1	822.5	822.5	822.5	0.0
S	70,271	182	755	2.3	822.8	822.8	822.8	0.0
T	71,089	202	813	2.2	823.4	823.4	823.4	0.0
U	71,544	212	945	2.0	823.7	823.7	823.7	0.0
V	71,927	288	2,910	0.8	832.3	832.3	832.3	0.0
W	73,054	460	2,329	0.8	832.3	832.3	832.3	0.0
X	75,331	283	1,258	1.0	832.4	832.4	832.4	0.0
Y	76,681	225	761	1.7	832.5	832.5	832.5	0.0
Z	78,365	207	804	1.6	832.9	832.9	832.9	0.0

¹Distances are measured in feet above confluence with Rock River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: YAHARA RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	78,832	237	851	1.5	833.0	833.0	833.0	0.0
AB	79,399	255	879	1.5	833.1	833.1	833.1	0.0
AC	79,956	194	713	1.8	833.3	833.3	833.3	0.0
AD	80,487	247	922	1.4	833.4	833.4	833.4	0.0
AE	81,124	241	1,020	1.3	833.5	833.5	833.5	0.0
AF	81,953	257	994	1.3	833.6	833.6	833.6	0.0
AG	83,221	672	944	1.4	833.8	833.8	833.8	0.0
AH	84,208	592	1,364	1.0	833.9	833.9	833.9	0.0
AI	84,944	177	668	2.0	834.0	834.0	834.0	0.0
AJ	85,705	170	654	2.0	834.3	834.3	834.3	0.0
AK	86,162	126	447	2.9	834.5	834.5	834.5	0.0
AL	86,607	88	325	4.0	834.9	834.9	834.9	0.0
AM	87,109	158	908	2.0	835.5	835.5	835.5	0.0
AN	87,420	55	392	6.1	835.5	835.5	835.5	0.0
AO	87,515	76	363	3.4	838.5	838.5	838.5	0.0
AP	87,658	101	950	1.5	838.7	838.7	838.7	0.0
AQ	87,727	80	2,988	1.3	843.9	843.9	843.9	0.0
AR	88,236	450	3,789	0.3	844.0	844.0	844.0	0.0
AS	88,799	233	1,713	0.7	844.0	844.0	844.0	0.0
AT	89,196	150	903	1.4	844.0	844.0	844.0	0.0
AU	89,509	94	650	1.9	844.0	844.0	844.0	0.0
AV	89,646	107	768	1.6	844.0	844.0	844.0	0.0
AW	89,912	151	952	1.3	844.1	844.1	844.1	0.0
AX	90,208	186	1,117	1.1	844.1	844.1	844.1	0.0
AY	90,470	162	913	1.4	844.1	844.1	844.1	0.0
AZ	90,714	113	743	1.7	844.1	844.1	844.1	0.0

¹Distances are measured in feet above confluence with Rock River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: YAHARA RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BA	90,843	156	873	1.4	844.2	844.2	844.2	0.0
BB	91,147	128	693	1.8	844.2	844.2	844.2	0.0
BC	91,590	147	799	1.5	844.3	844.3	844.3	0.0
BD	91,857	90	467	2.6	844.3	844.3	844.3	0.0
BE	92,006	168	1,342	1.1	844.5	844.5	844.5	0.0
BF	92,650	1,450	5,544	0.2	844.5	844.5	844.5	0.0
BG	93,817	1,617	9,819	0.1	844.5	844.5	844.5	0.0
BH	95,224	948	3,000	0.4	844.5	844.5	844.5	0.0
BI	96,644	1,397	4,921	0.3	844.5	844.5	844.5	0.0
BJ	97,948	547	2,148	0.7	844.6	844.6	844.6	0.0
BK	99,897	339	1,782	0.7	844.6	844.6	844.6	0.0
BL	100,404	185	1,159	1.2	844.6	844.6	844.6	0.0
BM	100,491	180	999	1.3	844.6	844.6	844.6	0.0
BN	100,902	201	1,129	1.1	844.7	844.7	844.7	0.0
BO	101,466	204	1,025	1.2	844.7	844.7	844.7	0.0
BP	102,110	417	2,074	0.6	844.8	844.8	844.8	0.0
BQ	103,439	1,941	8,294	0.2	844.8	844.8	844.8	0.0
BR	104,992	2,095	5,227	0.2	844.8	844.8	844.8	0.0
BS	106,466	3,269	8,371	0.2	844.8	844.8	844.8	0.0
BT	109,028	1,563	3,831	0.4	844.8	844.8	844.8	0.0
BU	110,441	404	2,317	0.7	844.8	844.8	844.8	0.0
BV	111,053	348	1,496	0.8	844.9	844.9	844.9	0.0
BW	111,782	263	1,327	0.9	844.9	844.9	844.9	0.0
BX	112,610	551	1,360	0.9	845.0	845.0	845.0	0.0
BY	113,347	1,255	3,827	0.3	845.0	845.0	845.0	0.0
BZ	114,279	1,657	3,998	0.3	845.1	845.1	845.1	0.0

¹Distances are measured in feet above confluence with Rock River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: YAHARA RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CA	115,623	1,704	5,612	0.3	845.1	845.1	845.1	0.0
CB	116,637	1,158	5,300	0.3	845.2	845.2	845.2	0.0
CC	117,303	237	4,236	0.9	845.2	845.2	845.2	0.0
CD	117,497	85	2,056	3.2	845.2	845.2	845.2	0.0
CE	117,585	121	2,237	2.6	845.4	845.4	845.4	0.0
CF	131,728	750	2,637	0.5	845.6	845.6	845.6	0.0
CG	132,432	460	2,327	0.6	845.6	845.6	845.6	0.0
CH	132,772	159	838	1.3	845.6	845.6	845.6	0.0
CI	132,874	147	1,000	1.2	845.6	845.6	845.6	0.0
CJ	133,179	258	1,656	0.8	845.7	845.7	845.7	0.0
CK	133,803	412	2,074	0.5	845.7	845.7	845.7	0.0
CL	134,832	573	2,072	0.5	845.7	845.7	845.7	0.0
CM	135,814	550	2,111	0.6	845.7	845.7	845.7	0.0
CN	137,014	208	1,190	1.0	845.8	845.8	845.8	0.0
CO	137,784	344	1,313	0.9	845.9	845.9	845.9	0.0
CP	138,492	397	1,535	0.7	845.9	845.9	845.9	0.0
CQ	139,083	431	1,605	0.7	845.9	845.9	845.9	0.0
CR	139,362	162	1,378	1.4	845.9	845.9	845.9	0.0
CS	139,502	204	1,043	1.1	846.0	846.0	846.0	0.0
CT	139,762	245	1,081	1.0	846.0	846.0	846.0	0.0
CU	140,272	222	1,152	0.9	846.1	846.1	846.1	0.0
CV	140,843	460	1,586	0.7	846.1	846.1	846.1	0.0
CW	141,269	1,328	4,518	0.3	846.1	846.1	846.1	0.0
CX	141,571	1,873	5,130	0.3	846.1	846.1	846.1	0.0
CY	141,993	1,878	3,936	0.3	846.1	846.1	846.1	0.0
CZ	142,406	1,838	4,103	0.3	846.2	846.2	846.2	0.0

¹Distances are measured in feet above confluence with Rock River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: YAHARA RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
DA	148,173	1,045	3,859	0.4	846.2	846.2	846.2	0.0
DB	149,082	614	1,840	0.6	846.2	846.2	846.2	0.0
DC	149,626	365	957	1.1	846.2	846.2	846.2	0.0
DD	150,154	226	872	1.2	846.3	846.3	846.3	0.0
DE	150,741	192	764	1.4	846.4	846.4	846.4	0.0
DF	151,244	273	965	1.1	846.5	846.5	846.5	0.0
DG	151,408	222	871	1.2	846.5	846.5	846.5	0.0
DH	151,578	154	627	1.7	846.5	846.5	846.5	0.0
DI	151,677	158	635	1.7	846.6	846.6	846.6	0.0
DJ	151,852	363	1,322	0.8	846.6	846.6	846.6	0.0
DK	152,087	513	1,857	0.6	846.6	846.6	846.6	0.0
DL	152,338	603	2,095	0.5	846.7	846.7	846.7	0.0
DM	152,613	691	2,570	0.5	846.7	846.7	846.7	0.0
DN	152,999	576	2,642	0.5	846.7	846.7	846.7	0.0
DO	153,380	255	1,176	1.0	846.7	846.7	846.7	0.0
DP	153,619	120	875	2.1	846.7	846.7	846.7	0.0
DQ	153,746	76	411	2.6	846.8	846.8	846.8	0.0
DR	226,807	1,420	5,755	0.4	852.6	851.0 ²	851.0 ²	0.0
DS	227,836	733	3,650	0.6	852.6	851.1 ²	851.1 ²	0.0
DT	228,835	396	2,381	0.9	852.6	851.3 ²	851.3 ²	0.0
DU	229,730	611	3,776	0.6	852.6	851.5 ²	851.5 ²	0.0
DV	230,341	352	2,130	1.0	852.6	851.6 ²	851.6 ²	0.0
DW	230,897	236	1,553	1.5	852.6	852.3 ²	852.3 ²	0.0
DX	231,265	152	2,252	1.6	852.6	852.6	852.6	0.0
DY	231,722	774	7,423	0.5	853.5	853.5	853.5	0.0
DZ	233,533	1,814	12,229	0.2	853.5	853.5	853.5	0.0

¹Distances are measured in feet above confluence with Rock River

²Elevation computed without consideration of backwater effects from Lake Mendota

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY DANE COUNTY, WISCONSIN AND INCORPORATED AREAS	FLOODWAY DATA FLOODING SOURCE: YAHARA RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
EA	235,872	1,070	5,393	0.4	853.5	853.5	853.5	0.0
EB	238,612	2,700	25,013	0.1	853.5	853.5	853.5	0.0
EC	241,397	2,854	11,059	0.3	853.5	853.5	853.5	0.0
ED	244,243	2,081	10,876	0.3	853.6	853.6	853.6	0.0
EE	246,154	1,709	4,633	0.6	853.6	853.6	853.6	0.0
EF	248,218	2,680	9,050	0.3	853.6	853.6	853.6	0.0
EG	252,202	1,837	4,692	0.6	854.0	854.0	854.0	0.0
EH	253,324	1,378	3,220	1.0	854.5	854.5	854.5	0.0
EI	255,025	1,866	4,652	0.7	855.1	855.1	855.1	0.0
EJ	259,000	2,060	6,114	0.7	856.0	856.0	856.0	0.0
EK	261,099	1,190	2,887	1.5	857.8	857.8	857.8	0.0
EL	263,344	589	3,137	1.3	859.4	859.4	859.4	0.0
EM	263,993	562	1,621	1.5	859.8	859.8	859.8	0.0
EN	265,223	289	1,106	2.2	862.6	862.6	862.6	0.0
EO	265,361	258	1,131	2.1	862.7	862.7	862.7	0.0
EP	265,699	457	2,019	1.2	862.9	862.9	862.9	0.0
EQ	267,217	1,055	3,426	0.7	863.1	863.1	863.1	0.0
ER	268,169	659	2,413	1.3	863.3	863.3	863.3	0.0
ES	268,680	311	654	3.6	863.5	863.5	863.5	0.0
ET	269,352	507	1,832	1.5	864.5	864.5	864.5	0.0
EU	270,131	645	2,265	1.5	864.9	864.9	864.9	0.0
EV	270,976	664	2,478	1.3	865.4	865.4	865.4	0.0
EW	272,284	404	3,054	1.6	867.7	867.7	867.7	0.0
EX	272,814	911	5,381	0.6	867.9	867.9	867.9	0.0
EY	273,449	605	4,049	0.9	867.9	867.9	867.9	0.0
EZ	274,213	716	3,446	1.1	868.0	868.0	868.0	0.0

¹Distances are measured in feet above confluence with Rock River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: YAHARA RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
FA	275,053	700	2,750	0.9	868.1	868.1	868.1	0.0
FB	275,709	850	3,085	0.9	868.1	868.1	868.1	0.0
FC	276,252	748	2,678	1.2	868.2	868.2	868.2	0.0
FD	276,669	499	1,941	0.9	870.2	870.2	870.2	0.0
FE	277,366	417	2,168	1.3	870.3	870.3	870.3	0.0
FF	278,071	243	758	2.3	870.5	870.5	870.5	0.0
FG	278,469	218	638	2.8	870.8	870.8	870.8	0.0
FH	278,865	528	1,611	1.1	871.2	871.2	871.2	0.0
FI	279,511	500	1,090	1.6	871.4	871.4	871.4	0.0
FJ	279,777	120	408	4.3	871.9	871.9	871.9	0.0
FK	280,288	508	1,608	1.1	875.1	875.1	875.1	0.0
FL	280,753	279	1,002	1.8	875.3	875.3	875.3	0.0
FM	281,404	349	1,069	1.7	875.8	875.8	875.8	0.0
FN	281,927	342	734	2.5	876.7	876.7	876.7	0.0
FO	282,418	395	1,030	1.9	877.9	877.9	877.9	0.0
FP	282,878	306	770	2.3	878.8	878.8	878.8	0.0
FQ	283,500	293	877	2.0	880.5	880.5	880.5	0.0
FR	284,027	318	967	2.3	881.3	881.3	881.3	0.0
FS	284,586	327	962	1.8	882.2	882.2	882.2	0.0
FT	285,149	295	992	1.8	883.0	883.0	883.0	0.0
FU	285,475	479	1,192	1.5	883.3	883.3	883.3	0.0
FV	286,101	767	1,741	1.0	883.8	883.8	883.8	0.0
FW	286,658	852	1,598	1.1	884.3	884.3	884.3	0.0
FX	287,262	314	483	2.6	885.2	885.2	885.2	0.0
FY	287,662	311	576	2.2	886.4	886.4	886.4	0.0
FZ	288,176	167	266	4.8	888.7	888.7	888.7	0.0

¹Distances are measured in feet above confluence with Rock River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: YAHARA RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
GA	288,650	261	554	2.6	890.9	890.9	890.9	0.0
GB	289,388	243	335	3.8	892.8	892.8	892.8	0.0
GC	290,052	286	476	2.7	895.5	895.5	895.5	0.0
GD	290,427	288	665	1.9	896.6	896.6	896.6	0.0
GE	290,820	181	439	2.9	897.4	897.4	897.4	0.0
GF	291,293	303	724	1.8	898.7	898.7	898.7	0.0
GG	291,955	517	1,115	1.1	899.8	899.8	899.8	0.0
GH	292,427	459	962	1.3	900.2	900.2	900.2	0.0
GI	292,961	485	1,172	1.1	900.6	900.6	900.6	0.0
GJ	293,468	502	1,027	1.2	901.0	901.0	901.0	0.0
GK	294,123	547	1,261	1.0	901.6	901.6	901.6	0.0
GL	294,850	352	664	1.9	902.8	902.8	902.8	0.0
GM	295,206	394	671	1.9	903.9	903.9	903.9	0.0
GN	296,342	293	1,172	1.2	908.1	908.1	908.1	0.0
GO	297,190	219	485	2.6	910.0	910.0	910.0	0.0
GP	297,508	299	646	2.0	911.5	911.5	911.5	0.0
GQ	298,084	364	721	1.8	913.0	913.0	913.0	0.0
GR	298,554	242	658	1.9	913.7	913.7	913.7	0.0
GS	299,208	244	631	2.0	914.8	914.8	914.8	0.0
GT	299,788	245	1,088	1.3	916.9	916.9	916.9	0.0
GU	300,237	266	698	2.0	917.3	917.3	917.3	0.0
GV	300,848	453	792	1.6	918.3	918.3	918.3	0.0
GW	301,164	446	775	1.6	918.9	918.9	918.9	0.0
GX	301,809	290	589	2.2	920.0	920.0	920.0	0.0
GY	302,282	344	572	2.2	921.4	921.4	921.4	0.0
GZ	302,801	392	885	1.6	922.3	922.3	922.3	0.0

¹Distances are measured in feet above confluence with Rock River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WISCONSIN

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: YAHARA RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
HA	303,254	250	612	2.1	922.5	922.5	922.5	0.0
HB	303,771	216	402	3.2	923.1	923.1	923.1	0.0
HC	304,614	299	1,063	1.2	926.8	926.8	926.8	0.0
HD	305,081	536	2,072	0.6	927.0	927.0	927.0	0.0
HE	306,045	447	1,471	0.8	927.1	927.1	927.1	0.0
HF	306,607	565	2,068	0.6	927.2	927.2	927.2	0.0
HG	307,263	604	1,914	0.6	927.2	927.2	927.2	0.0
HH	307,672	510	1,399	0.8	927.3	927.3	927.3	0.0
HI	308,118	188	520	2.3	927.3	927.3	927.3	0.0
HJ	308,771	320	1,163	1.0	928.5	928.5	928.5	0.0
HK	309,184	140	791	2.1	928.7	928.7	928.7	0.0
HL	309,902	124	701	2.3	929.9	929.9	929.9	0.0
HM	310,536	234	1,196	1.4	931.0	931.0	931.0	0.0
HN	310,804	378	929	1.3	931.1	931.1	931.1	0.0
HO	311,247	169	691	1.9	931.3	931.3	931.3	0.0
HP	311,969	335	836	1.4	932.7	932.7	932.7	0.0
HQ	312,421	716	4,522	0.4	932.9	932.9	932.9	0.0
HR	313,957	888	5,215	0.5	933.0	933.0	933.0	0.0
HS	315,343	1,154	3,980	0.4	933.2	933.2	933.2	0.0
HT	316,301	559	2,235	0.7	933.3	933.3	933.3	0.0
HU	317,413	189	2,350	2.0	933.4	933.4	933.4	0.0
HV	318,542	695	2,343	0.7	934.0	934.0	934.0	0.0
HW	319,878	907	2,042	0.2	934.1	934.1	934.1	0.0
HX	321,186	559	1,326	0.3	934.2	934.2	934.2	0.0
HY	322,378	1,205	2,448	0.1	934.2	934.2	934.2	0.0
HZ	323,999	46	195	2.3	934.2	934.2	934.2	0.0
IA	324,510	63	163	1.9	934.4	934.4	934.4	0.0

¹Distances are measured in feet above confluence with Rock River

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY DANE COUNTY, WISCONSIN AND INCORPORATED AREAS	FLOODWAY DATA FLOODING SOURCE: YAHARA RIVER

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

6.4 Coastal Flood Hazard Mapping

This section is not applicable to this FIS project.

Table 26: Summary of Coastal Transect Mapping Considerations
[Not Applicable to this FIS Project]

6.5 FIRM Revisions

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

6.5.1 Letters of Map Amendment

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

To obtain an application for a LOMA, visit <http://www.fema.gov> and download the form “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill”. Visit the “Flood Map-Related Fees” section to determine the cost, if any, of applying for a LOMA.

FEMA offers a tutorial on how to apply for a LOMA. The LOMA Tutorial Series can be accessed at http://www.fema.gov/plan/prevent/fhm/ot_lmreq.shtm.

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

6.5.2 Letters of Map Revision Based on Fill

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

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

A tutorial for LOMR-F is available at http://www.fema.gov/plan/prevent/fhm/ot_lmreq.shtm.

6.5.3 Letters of Map Revision

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

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

Previously issued mappable LOMCs (including LOMRs) that have been incorporated into the Dane County FIRM are listed in Table 27.

Table 27: Incorporated Letters of Map Change

Case Number	Effective Date	Flooding Source	FIRM Panel(s)
10-05-5471P	07-08-2011	Brewery Creek	55025C0195G, 55025C0357I

6.5.4 Physical Map Revisions

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

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

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

6.5.5 Contracted Restudies

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

6.5.6 Community Map History

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

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

The initial effective date for the Dane County FIRMs in countywide format was 6/17/2003.

Table 28: Community Map History

Community Name	Initial Identification Date (First NFIP Map Published)	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Village of Belleville	1/23/1974	01/23/1974	N/A	11/19/1980	TBD 9/17/2014 1/2/2009 6/17/2003
Village of Black Earth	12/17/1973	12/17/1973	1/23/1976	1/2/1981	TBD 9/17/2014 1/2/2009 6/17/2003
Village of Blue Mounds ¹	06/17/2003	N/A	N/A	6/17/2003	TBD 9/17/2014 1/2/2009
Village of Brooklyn ¹	06/17/2003	N/A	N/A	6/17/2003	TBD 9/17/2014 1/2/2009
Village of Cambridge	12/17/1973	12/17/1973	N/A	6/4/1980	TBD 9/17/2014 1/2/2009 6/17/2003
Village of Cottage Grove	6/17/2003	N/A	N/A	6/17/2003	TBD 9/17/2014 1/2/2009
Village of Cross Plains	5/24/1974	5/24/1974	7/16/1976	2/16/1983	TBD 1/2/2009 6/17/2003
Dane County Unincorporated Areas	2/7/1975	2/7/1975	N/A	9/29/1978	TBD 9/17/2014 1/02/2009 6/17/2003 3/5/1996 8/19/1987 2/8/1980
Village of Dane ¹	06/17/2003	N/A	N/A	06/17/2003	TBD 1/2/2009
Village of Deerfield	06/17/2003	N/A	N/A	06/17/2003	TBD 9/17/2014 1/2/2009
Village of DeForest	12/7/1973	12/7/1973	N/A	09/01/1978	TBD 9/17/2014 1/2/2009 6/17/2003
City of Edgerton	12/17/1973	12/17/1973	6/4/1976	4/15/1982	TBD 9/17/2014 1/2/2009 6/17/2003

¹No Special Flood Hazard Areas Identified in Dane County

Table 28: Community Map History (continued)

Community Name	Initial Identification Date (First NFIP Map Published)	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
City of Fitchburg	2/7/1975	2/7/1975	N/A	9/29/1978	TBD 9/17/2014 1/2/2009 6/17/2003 9/18/1986
City of Madison	3/8/1974	3/8/1974	8/19/1977 9/5/1975	9/30/1980	TBD 9/17/2014 1/2/2009 6/17/2003 3/5/1996 9/18/1986
Village of Maple Bluff	6/17/2003	N/A	N/A	6/17/2003	TBD 9/17/2014 1/2/2009
Village of Marshall	12/17/1973	12/17/1973	5/28/1976	12/16/1980	TBD 9/17/2014 1/2/2009 6/17/2003
Village of Mazomanie	12/28/1973	12/28/1973	4/16/1976	12/1/1981	TBD 9/17/2014 1/2/2009 6/17/2003 4/2/1991
Village of McFarland	12/17/1973	12/17/1973	12/5/1975	6/15/1978	TBD 9/17/2014 1/2/2009 6/17/2003
City of Middleton	12/14/1973	12/14/1973	4/16/1976	5/1/1980	TBD 9/17/2014 1/2/2009 6/17/2003 3/5/1996
City of Monona	11/30/1973	11/30/1973	N/A	6/15/1978	TBD 9/17/2014 1/2/2009 6/17/2003
Village of Mount Horeb	6/17/2003	N/A	N/A	6/17/2003	TBD 9/17/2014 1/2/2009

Table 28: Community Map History (continued)

Community Name	Initial Identification Date (First NFIP Map Published)	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Village of Oregon	5/24/1974	5/24/1974	08/06/1976	9/30/1980	TBD 9/17/2014 1/2/2009 6/17/2003
Village of Rockdale	12/7/1973	12/7/1973	4/23/1976	12/16/1980	TBD 9/17/2014 1/2/2009 6/17/2003
Village of Shorewood Hills	01/31/1975	01/31/1975	N/A	6/17/2003	TBD 9/17/2014 1/2/2009
City of Stoughton	12/17/1973	12/17/1973	N/A	6/15/1978	TBD 9/17/2014 1/2/2009 6/17/2003
City of Sun Prairie	11/4/1977	11/4/1977	N/A	1/17/1991	TBD 9/17/2014 1/2/2009 6/17/2003
City of Verona	12/7/1973	12/7/1973	N/A	8/1/1980	TBD 9/17/2014 1/2/2009 6/17/2003
Village of Waunakee	12/17/1973	12/17/1973	N/A	5/1/1978	TBD 9/17/2014 1/2/2009 6/17/2003

SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION

7.1 Contracted Studies

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

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Badger Mill Creek	01/02/2009	WI-DNR & Gannett Fleming	EMC-2004-GR-0212	12/31/2006	Dane County Uninc. Areas, City of Madison, City of Verona
Badger Mill Creek Diversion Channel	01/02/2009	WI-DNR & Gannett Fleming	EMC-2004-GR-0212	12/31/2006	Dane County Uninc. Areas, City of Verona
Black Earth Creek	TBD	WI-DNR & CDM Smith	WI-11-01	08/01/2013	Village of Black Earth, Village of Cross Plains, Dane County Uninc. Areas, Village of Mazomanie
Black Earth Creek	01/02/2009	WI-DNR & Gannett Fleming	EMC-2004-GR-0212	12/31/2006	Dane County Uninc. Areas, City of Middleton
Black Earth Creek Overland Flow Path 1	TBD	WI-DNR & CDM Smith	WI-11-01	08/01/2013	Dane County Uninc. Areas, Village of Mazomanie
Black Earth Creek Overland Flow Path 2	TBD	WI-DNR & CDM Smith	WI-11-01	08/01/2013	Dane County Uninc. Areas, Village of Mazomanie
Brewery Creek	01/02/2009	WI-DNR & Gannett Fleming	EMC-2004-GR-0212	12/31/2006	Village of Cross Plains
Brewery Creek	TBD	MSA Professional Services, Inc.	10-05-5471P	07/08/2011	Village of Cross Plains, Dane County Uninc. Areas
Crawfish River	09/17/2014	WI-DNR & CDM Smith	WI-10-01	11/01/2012	Dane County Uninc. Areas
Crystal Lake	TBD	WI-DNR	WI-11-01	10/21/2014	Dane County Uninc. Areas
Door Creek	09/17/2014	WI-DNR & MSA Professional Services, Inc.	WI-10-01	11/01/2012	Dane County Uninc. Areas, City of Madison

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Dorn Creek	09/17/2014	WI-DNR & MSA Professional Services, Inc.	WI-10-01	11/01/2012	Dane County Uninc. Areas, City of Middleton
Dry Tributary to Badger Mill Creek	01/02/2009	WI-DNR	EMC-2004-GR-0212	12/31/2006	Dane County Uninc. Areas, City of Madison, City of Verona
East Branch Badger Mill Creek	01/02/2009	WI-DNR & Gannett Fleming	EMC-2004-GR-0212	12/31/2006	City of Madison
East Branch Starkweather Creek	09/17/2014	Strand Associates, Inc.	09-05-2241P	04/01/2006	Dane County Uninc. Areas, City of Madison
Enchanted Valley Creek	08/16/1982	USGS	IAA-H-14-78	07/01/1980	Dane County Uninc. Areas, Village of Cross Plains
Fish Lake	TBD	WI-DNR	WI-11-01	10/21/2014	Dane County Uninc. Areas
Greenway	03/01/1980	USGS	IAA-H-9-77	12/01/1977	Village of Oregon
Koshkonong Creek	09/17/2014	WI-DNR & MSA Professional Services, Inc.	WI-10-01	11/01/2012	Village of Cambridge, Village of Cottage Grove, Dane County Uninc. Areas, Village of Deerfield, Village of Rockdale, City of Sun Prairie
Leutens Creek	09/17/2014	WI-DNR & MSA Professional Services, Inc.	WI-10-01	11/01/2012	Dane County Uninc. Areas
Mauneshia River	09/17/2014	WI-DNR & CDM Smith	WI-10-01	11/01/2012	Dane County Uninc. Areas, Village of Marshall
Milwaukee Street Tributary	01/02/2009	WI-DNR & Gannett Fleming	NMF0000316	05/01/2006	Dane County Uninc. Areas, City of Madison
Mud Creek	09/17/2014	M Squared Engineering	12-05-9699P	12/01/2012	Dane County Uninc. Areas, Village of Deerfield
Mud Creek North Fork	09/17/2014	M Squared Engineering	12-05-9699P	12/01/2012	Dane County Uninc. Areas, Village of Deerfield

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Mud Creek West Channel	09/17/2014	M Squared Engineering	12-05-9699P	12/01/2012	Dane County Uninc. Areas, Village of Deerfield
Nine Springs Creek	03/29/1978	USGS	IAA-H-20-74	04/01/1975	Dane County Uninc. Areas, City of Fitchburg, City of Madison
Oregon Branch Badfish Creek	09/17/2014	WI-DNR & MSA Professional Services, Inc.	WI-10-01	11/01/2012	Dane County Uninc. Areas, Village of Oregon
Pennito Creek	01/02/2009	SEH	EMC-2004-GR-0212	06/01/2003	Dane County Uninc. Areas, City of Madison
Pheasant Branch	01/02/2009	R.S. Grant Consulting	EMC-2004-GR-0212	08/21/2003	Dane County Uninc. Areas, City of Middleton
Portage Road Tributary	09/17/2014	Strand Associates, Inc.	10-05-3876P	03/01/2010	Dane County Uninc. Areas, City of Madison
Rice Lake	09/17/2014	WI-DNR & MSA Professional Services, Inc.	WI-10-01	11/01/2012	Dane County Uninc. Areas
Rock River	09/17/2014	WI-DNR	WI-09-01	03/04/2013	Dane County Uninc. Areas
Saunders Creek	09/17/2014	WI-DNR & MSA Professional Services, Inc.	WI-10-01	11/01/2012	Dane County Uninc. Areas
Sixmile Creek	01/02/2009	WI-DNR & Gannett Fleming	EMC-2004-GR-0212	12/31/2006	Dane County Uninc. Areas, Village of Waunakee
South Fork to Pheasant Branch	01/02/2009	R.S. Grant Consulting	EMC-2004-GR-0212	08/21/2003	City of Middleton
Starkweather Creek	09/17/2014	Strand Associates, Inc.	09-05-2241P	04/01/2006	City of Madison, Dane County Uninc. Areas
Sugar River	01/02/2009	WI-DNR & Gannett Fleming	EMC-2004-GR-0212	12/31/2006	Dane County Uninc. Areas
Sugar River	01/02/2009	WI-DNR & Gannett Fleming	EMC-2004-GR-0212	12/31/2006	Dane County Uninc. Areas, Village of Belleville
Sugar River	TBD	WI-DNR	WI-13-01	02/01/2014	Dane County Uninc. Areas, Village of Belleville

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Sugar River	01/02/2009	WI-DNR & Gannett Fleming	EMC-2004-GR-0212	12/31/2006	City of Sun Prairie, Dane County Uninc. Areas, Village of DeForest
Token Creek	09/17/2014	WI-DNR & MSA Professional Services, Inc.	WI-10-01	11/01/2012	Dane County Uninc. Areas
Unnamed Tributary to Lake Koshkonong	09/17/2014	WI-DNR & MSA Professional Services, Inc.	WI-10-01	11/01/2012	City of Madison, City of Monona, Dane County Uninc. Areas
Unnamed Tributary to Lake Waubesa	01/02/2009	SEH	EMC-2004-GR-0212	06/01/2003	Dane County Uninc. Areas
Unnamed Tributary to Oregon Branch Badfish Creek	09/17/2014	Vierbicher Associates, Inc.	08-05-5051P	10/08/2007	Dane County Uninc. Areas, Village of Waunakee
Unnamed Tributary to Sixmile Creek	09/17/2014	Strand Associates, Inc.	WI-10-01	10/01/2007	City of Stoughton, Dane County Uninc. Areas
Unnamed Tributary to Yahara River	09/17/2014	WI-DNR & MSA Professional Services, Inc.	WI-10-01	11/01/2012	Dane County Uninc. Areas, Village of Black Earth
Vermont Creek	07/02/1980	USGS	IAA-H-14-78	03/01/1979	City of Madison, Dane County Uninc. Areas
West Branch Starkweather Creek	09/17/2014	Strand Associates, Inc. & Mead & Hunt, Inc.	09-05-2241P & 09-05-4432P	04/01/2006	City of Sun Prairie
Wisconsin River	TBD	WI-DNR & CDM Smith	WI-11-01	08/01/2013	Dane County Uninc. Areas
Yahara River	09/17/2014	WI-DNR & MSA Professional Services, Inc.	WI-10-01	11/01/2012	City of Madison, Dane County Uninc. Areas, Village of McFarland
Yahara River	01/02/2009	Black & Veatch	EMC-2001-CO-0057	12/01/2003	City of Madison, Dane County Uninc. Areas, Village of DeForest

Table 29: Summary of Contracted Studies Included in this FIS Report (*continued*)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Yahara River	09/17/2014	WI-DNR & MSA Professional Services, Inc.	WI-10-01	11/01/2012	City of Stoughton, Dane County Uninc. Areas, Village of McFarland

7.2 Community Meetings

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

Table 30: Community Meetings

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Dane County and Incorporated Areas	TBD	11/16/2011	Discovery	Wisconsin DNR, county and communities
		03/06/2014	Resilience	Wisconsin DNR, Wisconsin Emergency Management, county and the Lower Wisconsin River Basin communities
		06/11/2014	CCO Open House	
Dane County and Incorporated Areas	09/17/2014	02/01/2011 02/07/2011	Discovery	Wisconsin DNR, the county and communities
		01/22/2014	Resilience	Wisconsin DNR, Wisconsin Emergency Management, county and the Rock River Basin communities
		06/26/2013	CCO Open House	FEMA, Wisconsin DNR, county and communities
Dane County and Incorporated Areas	01/02/2009	09/28/2004	Initial CCO	FEMA, Wisconsin DNR, the county and communities
		12/07/2006	Final CCO	FEMA, Wisconsin DNR, the study contractor, county and communities
Dane County and Incorporated Areas	06/17/2003	*	Initial CCO	*
		12/15/1999	Final CCO	FEMA, Wisconsin DNR, the study contractor, county and communities
City of Verona	02/1/1996	01/11/1993	Initial CCO	Letter to community
		11/01/1994	Final CCO	FEMA, Wisconsin DNR, City of Verona, and USGS the study contractor
City of Sun Prairie	01/17/1991	02/12/1986	Initial CCO	FEMA, Wisconsin DNR, City of Sun Prairie, and the study contractor
		02/23/1990	Final CCO	FEMA, Wisconsin DNR, City of Sun Prairie, and the study contractor

* This information wasn't available from the previous FIS Reports

Table 30: Community Meetings (continued)

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
City of Fitchburg	09/18/1986	*	Initial CCO	*
		10/15/1985	Final CCO	FEMA, Wisconsin DNR, and City of Fitchburg
City of Madison	09/18/1986	*	Initial CCO	*
		10/23/1985	Final CCO	FEMA, Wisconsin DNR, City of Madison, Dane county, and the study contractor
Village of Cross Plains	08/16/1982	12/15/1977	Initial CCO	FEMA, Wisconsin DNR, Village of Cross Plains, University of Wisconsin, and the study contractor
		06/24/1981	Final CCO	FEMA, Wisconsin DNR, Village of Cross Plains, and the study contractor
Village of Mazomanie	12/01/1981	12/14/1977	Initial CCO	Wisconsin DNR, Dane County Regional Planning Commission, and Village of Mazomanie
		10/15/1980	Final CCO	FEMA, Wisconsin DNR, Village of Mazomanie, and the study contractor
Village of Belleville	11/19/1980	12/15/1977	Initial CCO	Wisconsin DNR, USGS, Dane County Regional Planning Commission, Village of Belleville, and the study contractor
		05/15/1979	Final CCO	FEMA, Wisconsin DNR, Village of Belleville, and the study contractor
Village of Black Earth	07/02/1980	12/14/1977	Initial CCO	Wisconsin DNR, Dane County Regional Planning Commission, Village of Black Earth, and the study contractor
		08/23/1979	Final CCO	FEMA, Wisconsin DNR, Village of Black Earth, and the study contractor
Village of Marshall	06/1980	*	Initial CCO	FEMA, Wisconsin DNR, USGS, Dane County Regional Planning Commission, and Village of Marshall along with their consultant
		05/16/1979	Final CCO	FEMA, Wisconsin DNR, USGS, Dane County Regional Planning Commission, Village of Marshall, and the study contractor

* This information wasn't available from the previous FIS Reports

Table 30: Community Meetings (continued)

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Village of Rockdale	06/1980	12/14/1977	Initial CCO	Wisconsin DNR, USGS, Dane County Regional Planning Commission, Village of Rockdale, and the study contractor
		05/16/1979	Final CCO	FEMA, Wisconsin DNR, Village of Rockdale, and the study contractor
Village of Oregon	03/1980	11/19/1975	Initial CCO	FEMA, Wisconsin DNR, Village of Oregon, and USGS the study contractor
		12/05/1979	Final CCO	FEMA, Wisconsin DNR, Village of Oregon, and USGS the study contractor
City of Verona	02/1980	12/15/1977	Initial CCO	Wisconsin DNR, USGS, Dane County Regional Planning Commission, City of Verona, and the study contractor
		08/22/1979	Final CCO	FEMA, Wisconsin DNR, City of Verona, and USGS
Village of Cambridge	12/1979	12/14/1977	Initial CCO	Wisconsin DNR, USGS, Dane County Regional Planning Commission, Village of Cambridge, and the study contractor
		03/28/1979	Final CCO	Wisconsin DNR, USGS, Dane County Regional Planning Commission, Village of Cambridge, and the study contractor
City of Middleton	11/1979	11/20/1975	Initial CCO	FEMA, Wisconsin DNR, City of Middleton, and USGS the study contractor
		02/23/1979	Final CCO	FEMA, Wisconsin DNR, City of Middleton, and USGS the study contractor
Village of DeForest	09/01/1978	11/20/1975	Initial CCO	FEMA, Wisconsin DNR, Village of DeForest, and USGS the study contractor
		09/20/1977	Final CCO	FEMA, Wisconsin DNR, and Village of DeForest
Dane County, Unincorporated Areas	03/29/1978	*	Initial CCO	*
		10/05/1976	Final CCO	FEMA, Wisconsin DNR, Dane County, and USGS the study contractor

* This information wasn't available from the previous FIS Reports

Table 30: Community Meetings (continued)

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Village of McFarland	12/1977	11/20/1975	Initial CCO	FEMA, Wisconsin DNR, Village of McFarland, and USGS the study contractor
		06/30/1977	Final CCO	FEMA, Wisconsin DNR, Village of McFarland, and USGS the study contractor
Village of Monona	12/1977	11/20/1975	Initial CCO	FEMA, Wisconsin DNR, Village of Monona, and USGS the study contractor
		06/30/1977	Final CCO	FEMA, Wisconsin DNR, Village of Monona, and USGS the study contractor
City of Stoughton	12/1977	11/20/1975	Initial CCO	FEMA, Wisconsin DNR, City of Stoughton, and USGS the study contractor
		06/30/1977	Final CCO	FEMA, Wisconsin DNR, City of Stoughton, and USGS the study contractor
Village of Waunakee	11/1977	11/20/1975	Initial CCO	FEMA, Wisconsin DNR, Village of Waunakee, and USGS the study contractor
		04/28/1977	Final CCO	FEMA, Wisconsin DNR, Village of Waunakee, and USGS the study contractor

SECTION 8.0 – ADDITIONAL INFORMATION

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

The additional data that was used for this project includes the FIS Report and FIRM that were previously prepared for Dane County, (FEMA 2014).

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

Table 31: Map Repositories

Community	Address	City	State	Zip Code
Village of Belleville	Village Hall 24 West Main St	Belleville	WI	53508
Village of Black Earth	Village Hall 1210 Mills St	Black Earth	WI	53515
Village of Blue Mounds	Village Hall 11011 Brigham Ave	Blue Mounds	WI	53517-9617
Village of Brooklyn	Village Hall 102 North Rutland Ave	Brooklyn	WI	53521-9617
Village of Cambridge	Village Hall 200 South Spring St	Cambridge	WI	53523-0099
Village of Cottage Grove	Village Hall 221 East Cottage Grove Rd	Cottage Grove	WI	53527
Village of Cross Plains	Village Hall 2417 Brewery Rd	Cross Plains	WI	53528-9471
Dane County Unincorporated Areas	City County Building 210 Martin Luther King Jr. Blvd #116	Madison	WI	53703
Village of Dane	Village Hall 102 West Main St	Dane	WI	53529
Village of Deerfield	Village Hall 4 North Main St	Deerfield	WI	53531-0066
Village of DeForest	Village Hall 306 Deforest St	DeForest	WI	53532
City of Edgerton	City Hall 12 Albion St	Edgerton	WI	53534-1835
City of Fitchburg	City Hall 5520 Lacy Rd	Fitchburg	WI	53711-5318

Table 31: Map Repositories (continued)

Community	Address	City	State	Zip Code
City of Madison	City Hall 210 Martin Luther King Jr. Blvd #403	Madison	WI	53703
Village of Maple Bluff	Village Hall 18 Oxford Pl	Madison	WI	53704
Village of Marshall	Village Hall 130 South Pardee St	Marshall	WI	53559-9614
Village of Mazomanie	Village Hall 133 Crescent St	Mazomanie	WI	53560
Village of McFarland	Village Hall 5915 Milwaukee St	McFarland	WI	53558
City of Middleton	City Hall 7426 Hubbard Ave	Middleton	WI	53562-3118
City of Monona	City Hall 5211 Schluter Rd	Monona	WI	53716-2598
Village of Mount Horeb	Village Hall 138 East Main St	Mount Horeb	WI	53572
Village of Oregon	Village Hall 117 Spring St	Oregon	WI	53575
Village of Rockdale	Village Hall 148 Water St	Rockdale	WI	53523
Village of Shorewood Hills	Village Hall 810 Shorewood Blvd	Madison	WI	53705-2115
City of Stoughton	City Hall 381 East Main St	Stoughton	WI	53589-1724
City of Sun Prairie	City Hall 300 East Main St	Sun Prairie	WI	53590
City of Verona	City Hall 111 Lincoln St	Verona	WI	53593-1517
Village of Waunakee	Village Hall 500 West Main St	Waunakee	WI	53597-1057

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

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

Table 32: Additional Information

FEMA and the NFIP	
FEMA and FEMA Engineering Library website	http://www.fema.gov
NFIP website	http://www.fema.gov/business/nfip
NFHL Dataset	http://msc.fema.gov
FEMA Region V	536 South Clark Street, 6th Floor Chicago, IL 60605 (312) 408-5529
Other Federal Agencies	
USGS website	http://www.usgs.gov
Hydraulic Engineering Center website	http://www.hec.usace.army.mil
State Agencies and Organizations	
State Floodplain Management website	http://dnr.wi.gov/topic/floodplains/
State NFIP Coordinator	State National Floodplain Insurance Program (NFIP) Coordinator Gary H. Heinrichs Wisconsin Dept. of Natural Res. 101 S. Webster Street – WT/3 Madison, WI 53703 (608) 266-3093 gary.heinrichs@wisconsin.gov
State Floodplain GIS Coordinator	Floodplain Mapping GIS Coordinator Colleen Hermans Wisconsin Dept. of Natural Res. 101 S. Webster Street – WT/3 Madison, WI 53703 Phone: 608-264-8988 colleen.hermans@wisconsin.gov

SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES

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

Table 33: Bibliography and References

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Black & Veatch 2003	Black & Veatch.	<i>Yahara River Basin and Chain of Lakes, Madison, Wisconsin. HEC-HMS Model Summary Report.</i>	Black & Veatch.	Madison, Wisconsin	January 2003	
FEMA 2011	Federal Emergency Management Agency	<i>Brewery Creek LOMR in Dane County, WI and Incorporated Areas. Case #; 10-05-5471P</i>	Federal Emergency Management Agency	Washington, DC	July 2011	
IL 1974	Illinois State Water Survey Division	<i>Illinois Bulletin 58, The Illinois Urban Drainage Area Simulator, ILLUDAS</i>	M Terstriep and J Stall	Urbana, Illinois	August 1974	
SCS 1983	U.S. Department of Agriculture, Soil Conservation Service	<i>Technical Release No. 20, Computer Program for Project Formulation, Hydrology. 2nd Edition</i>	SCS	Washington, D.C.	May 1983	
SCS 1975	U.S. Department of Agriculture, Soil Conservation Service	<i>Technical Release No.55, Urban Hydrology for Small Watersheds</i>	SCS	Washington, D.C.	January 1975	
USACE 2010	U.S. Army Corps of Engineers, Hydrologic Engineering Center	<i>HEC-HMS 3.5 Hydrologic Modeling System</i>	USACE	Davis, California	August 2010	http://www.hec.usace.army.mil/

Table 33: Bibliography and References (*continued*)

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USACE 2010	U.S. Army Corps of Engineers, Hydrologic Engineering Center	<i>HEC-RAS 4.1.0 River Analysis System</i>	USACE	Davis, California	January 2010	http://www.hec.usace.army.mil/
USACE 1991	U.S. Army Corps of Engineers, Hydrologic Engineering Center	<i>HEC-2 Water Surface Profiles, Generalized Computer Program</i>	USACE	Davis, California	May 1991	http://www.hec.usace.army.mil/
USGS 1982	U.S. Department of Interior, Geological Survey	<i>Bulletin # 17B, Guidelines for Determining Flood Flow Frequency</i>	Hydrology Subcommittee of the Interagency Advisory Committee for Water Data	Reston, VA	March 1982	
USGS 1981	U.S. Department of Interior, Geological Survey	<i>Water Resources Investigations Report 80-1214. Techniques for Estimating Magnitude and Frequency of Floods in Wisconsin</i>	Conger/USGS	Madison, Wisconsin	1971	
USGS 1980	U.S. Department of Interior, Geological Survey	<i>Open File Report 80-11-3, Streamflow Model of Wisconsin River for Establishing Flood Frequency and Volume</i>	USGS/WDNR	Madison, Wisconsin	November 1980	
USGS 1976	U.S. Department of Interior, Geological Survey	<i>Open-File Report 76-499, Computer applications for step-backwater and floodway analysis, E431 Digital Computer Model</i>	Shearman/ USGS	Reston, VA	1976	

Table 33: Bibliography and References (*continued*)

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS 1971	U.S. Department of Interior, Geological Survey	<i>Open File Report, Estimating Magnitude and Frequency of Floods in Wisconsin</i>	Conger/USGS	Madison, Wisconsin	1971	
USWRC 1968	U.S. Water Resources Council, Hydrology Committee	<i>River Mileage Measurement, Bulletin No. 14</i>	USWRC	Washington, D.C.	1968	
WDNR 2014	Wisconsin DNR	<i>DNR Map Base Index</i>	Wisconsin DNR	Madison, Wisconsin	TBD	
WDNR 2014	Wisconsin DNR	<i>Updated FIRM Panel Index in Dane County, WI and Incorporated Areas</i>	Wisconsin DNR	Madison, WI	TBD	
WDNR 2014	Wisconsin DNR	<i>Sugar River PMR in Dane County, WI and Incorporated Areas</i>	Wisconsin DNR	Madison, WI	TBD	
WDNR 2014	Wisconsin DNR	<i>Unshaded Zone X Mapping for Dane County, WI and Incorporated Areas</i>	Wisconsin DNR	Madison, WI	TBD	
WDNR 2014	Wisconsin DNR	<i>New Detailed Study (AE Zone) Modeling and Mapping for Fish and Crystal Lakes in Dane County, WI and Incorporated Areas</i>	Wisconsin DNR	Madison, WI	TBD	

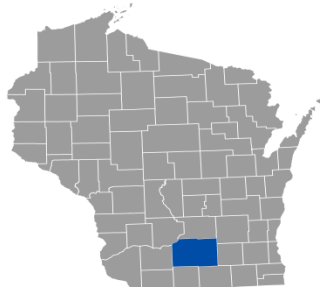
Table 33: Bibliography and References (*continued*)

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
WDNR 2014	Wisconsin DNR	<i>New Detailed Study (AE Zone) Modeling and Mapping for Wisconsin River and Black Earth Creek in Dane County, WI and Incorporated Areas</i>	Wisconsin DNR	Madison, WI	TBD	
WDNR 2014	Federal Emergency Management Agency	<i>Effective FIRMs, Dane County, Wisconsin and Incorporated Areas</i>	Federal Emergency Management Agency	Washington DC	September 2014	<Null>
WDNR 2014	Federal Emergency Management Agency	<i>Flood Insurance Study, Dane County, Wisconsin and Incorporated Areas</i>	Federal Emergency Management Agency	Washington DC	September 2014	
WDNR 2012	Wisconsin DNR	<i>Wisconsin's Floodplain Management Program, Chapter NR 116</i>	Wisconsin DNR	Madison, Wisconsin	January 2012	http://docs.legis.wisconsin.gov/code/admin_code/nr/100/116.pdf
WDNR 2010	Wisconsin DNR	<i>2010 Digital Orthoimagery Photo</i>	Wisconsin DNR	Madison, Wisconsin	2010	
<u>XP-SWMM</u> 2000	XP Solutions North America	<i>XP-SWMM (Stormwater Management Model), Version 7.51</i>	XP Solutions Inc	Portland, Oregon	2000	http://www.xpsolutions.com/

FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 3 OF 4



DANE COUNTY, WISCONSIN AND INCORPORATED AREAS

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
VILLAGE OF BELLEVILLE	550159	VILLAGE OF MAPLE BLUFF	550618
VILLAGE OF BLACK EARTH	550079	VILLAGE OF MARSHALL	550084
VILLAGE OF BLUE MOUNDS*	550620	VILLAGE OF MAZOMANIE	550085
VILLAGE OF BROOKLYN*	550621	VILLAGE OF McFARLAND	550086
VILLAGE OF CAMBRIDGE	550080	CITY OF MIDDLETON	550087
VILLAGE OF COTTAGE GROVE	550617	CITY OF MONONA	550088
VILLAGE OF CROSS PLAINS	550081	VILLAGE OF MOUNT HOREB	550624
DANE COUNTY UNINCORPORATED AREAS	550077	VILLAGE OF OREGON	550089
VILLAGE OF DANE*	550622	VILLAGE OF ROCKDALE	550090
VILLAGE OF DEERFIELD	550623	VILLAGE OF SHOREWOOD HILLS	550556
VILLAGE OF DeFOREST	550082	CITY OF STOUGHTON	550091
CITY OF EDGERTON	550365	CITY OF SUN PRAIRIE	550573
CITY OF FITCHBURG	550610	CITY OF VERONA	550092
CITY OF MADISON	550083	VILLAGE OF WAUNAKEE	550093

* No Special Flood Hazards Identified in Dane County

EFFECTIVE:

REVISED PRELIMINARY 05/20/2015



FEMA

FLOOD INSURANCE STUDY NUMBER
55025CV003D

Version Number 2.2.2.1

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Badger Mill Creek Diversion Channel	04 P
Black Earth Creek	05-10 P
Black Earth Creek Overland Flow Path 1	11 P
Black Earth Creek Overland Flow Path 2	12 P
Brewery Creek	13-14 P
Door Creek	15-20 P
Dorn Creek	21-28 P
Dry Tributary to Badger Mill Creek	29-31 P
East Branch Badger Mill Creek	32 P
East Branch Starkweather Creek	33-34 P
Enchanted Valley Creek	35-37 P
Greenway	38 P
Koshkonong Creek	39-56 P
Leutens Creek	57-58 P
Maunsha River	59-63 P

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Exhibits *(continued)*

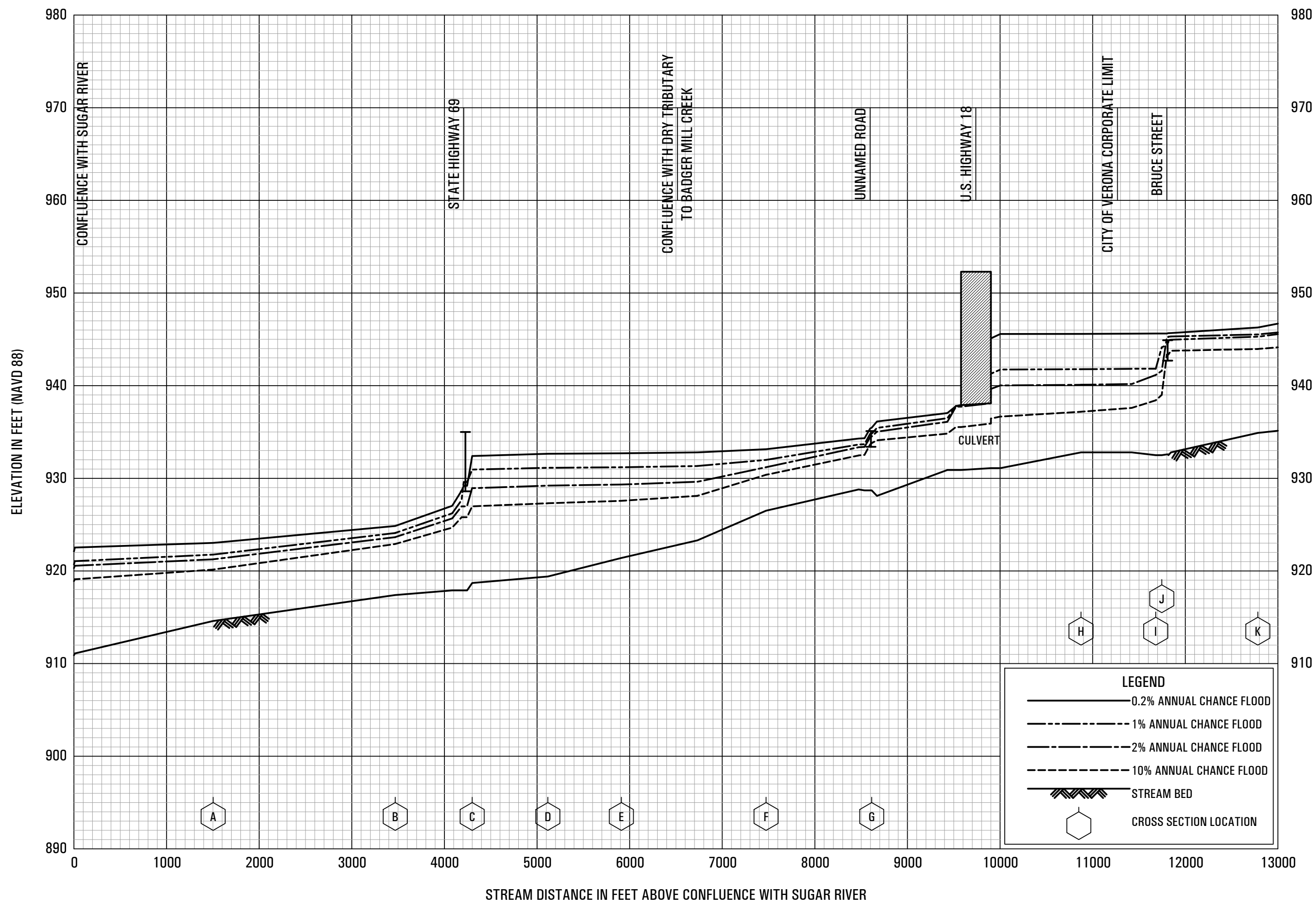
Milwaukee Street Tributary	64 P
Mud Creek	65 P
Mud Creek North Fork	66 P
Mud Creek West Channel	67 P
Nine Springs Creek	68-69 P
Oregon Branch Badfish Creek	70-72 P
Pennito Creek	73-74 P

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Saunders Creek	81-88 P
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Starkweather Creek	95 P
Sugar River	96-100 P
Token Creek	101-109 P
Unnamed Tributary to Lake Koshkonong	110-111 P
Unnamed Tributary to Lake Waubesa	112-114 P
Unnamed Tributary to Oregon Branch Badfish Creek	115 P
Unnamed Tributary to Sixmile Creek	116 P
Unnamed Tributary to Yahara River	117-118 P
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West Branch Starkweather Creek	120-123 P
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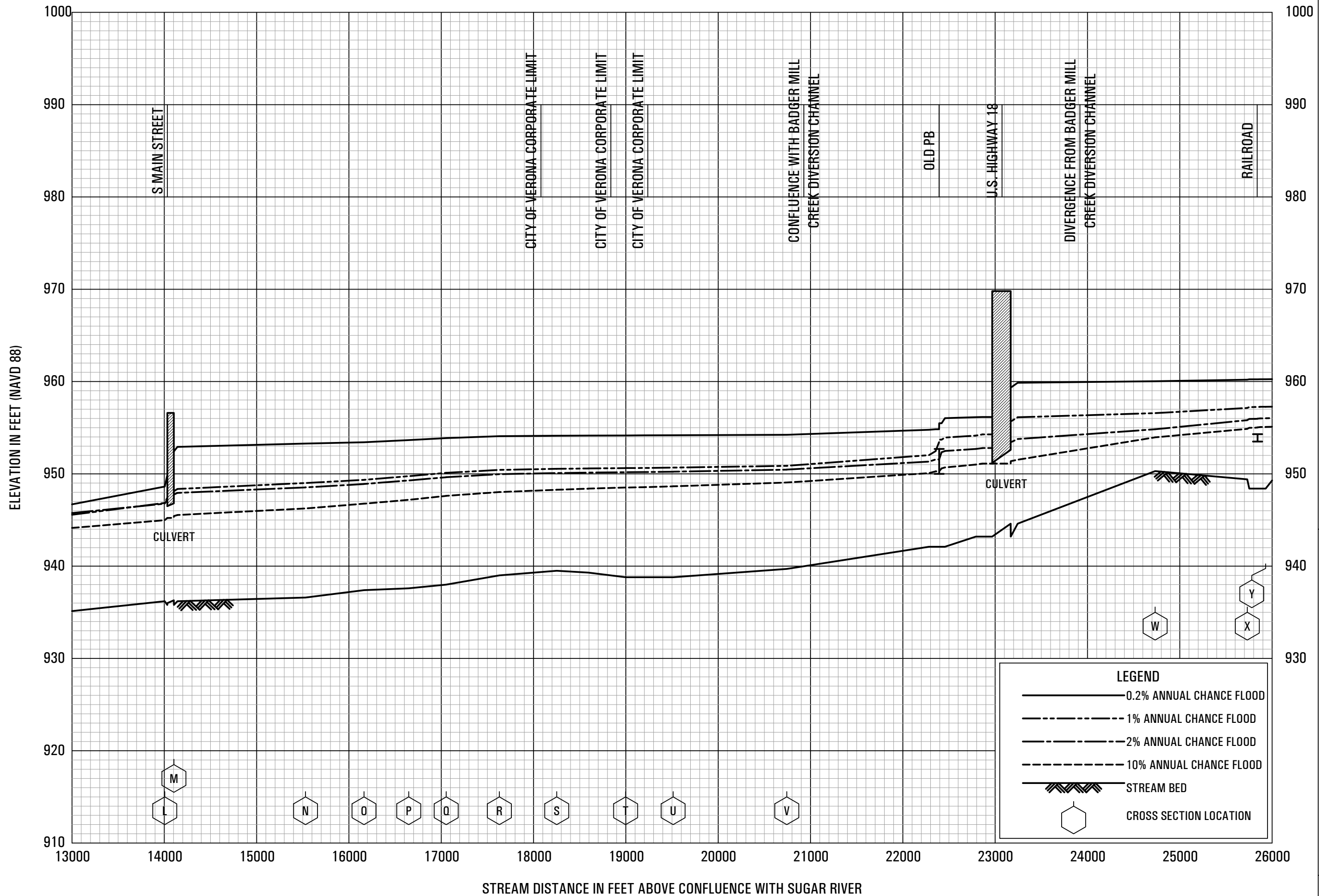
Published Separately

Flood Insurance Rate Map (FIRM)



FLOOD PROFILES
BADGER MILL CREEK

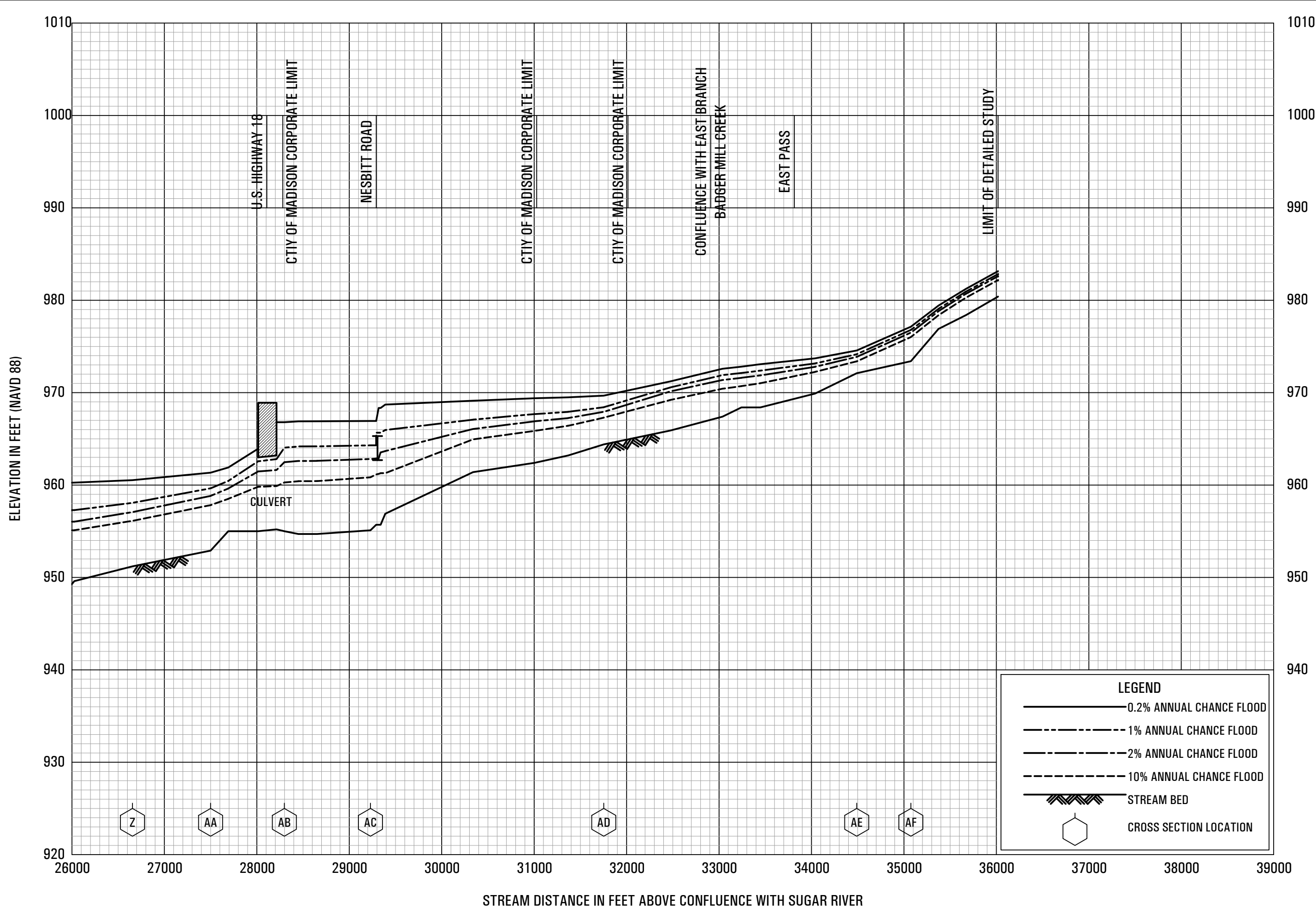
FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
AND INCORPORATED AREAS



FLOOD PROFILES

BADGER MILL CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
 AND INCORPORATED AREAS

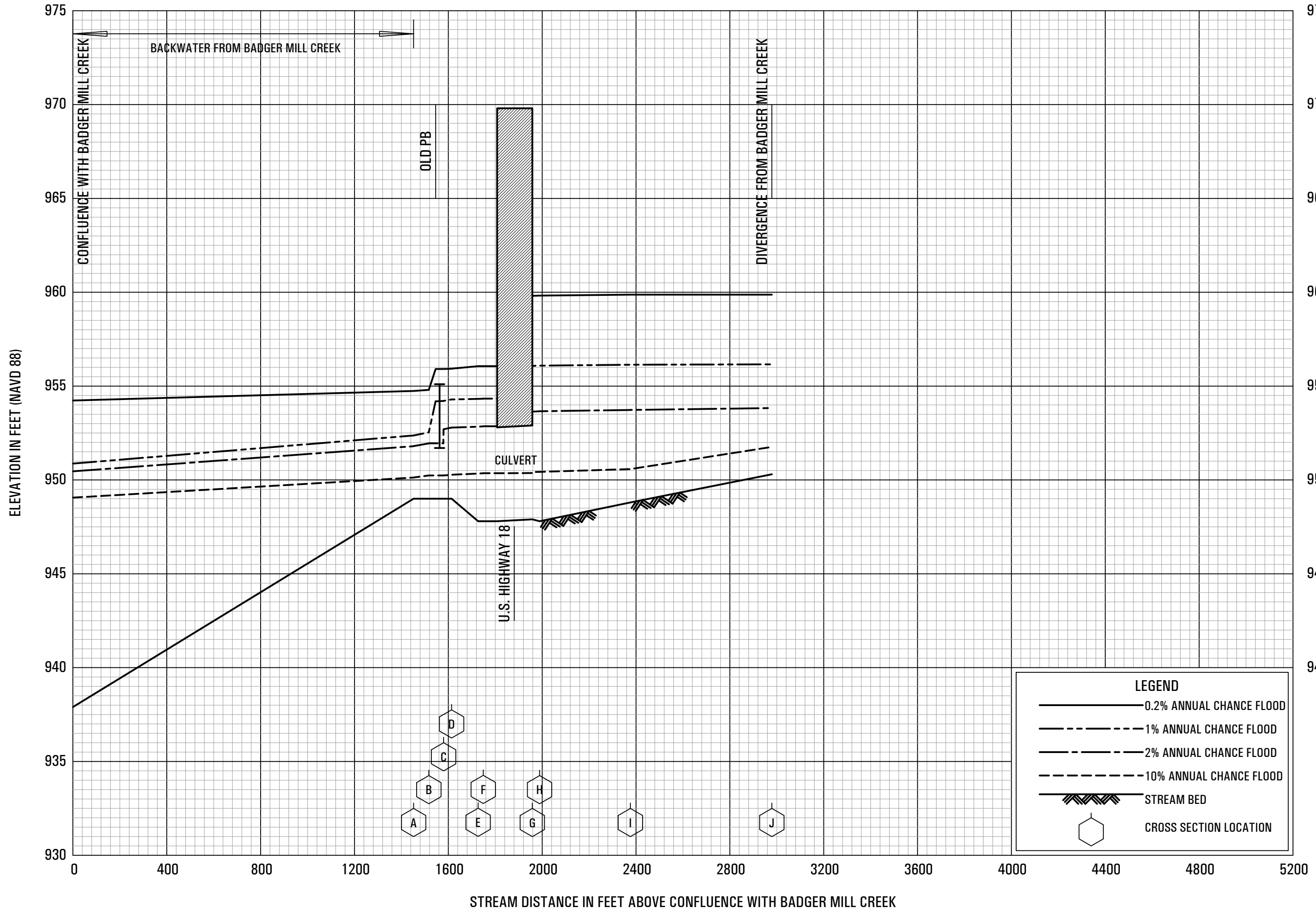


FLOOD PROFILES

BADGER MILL CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS

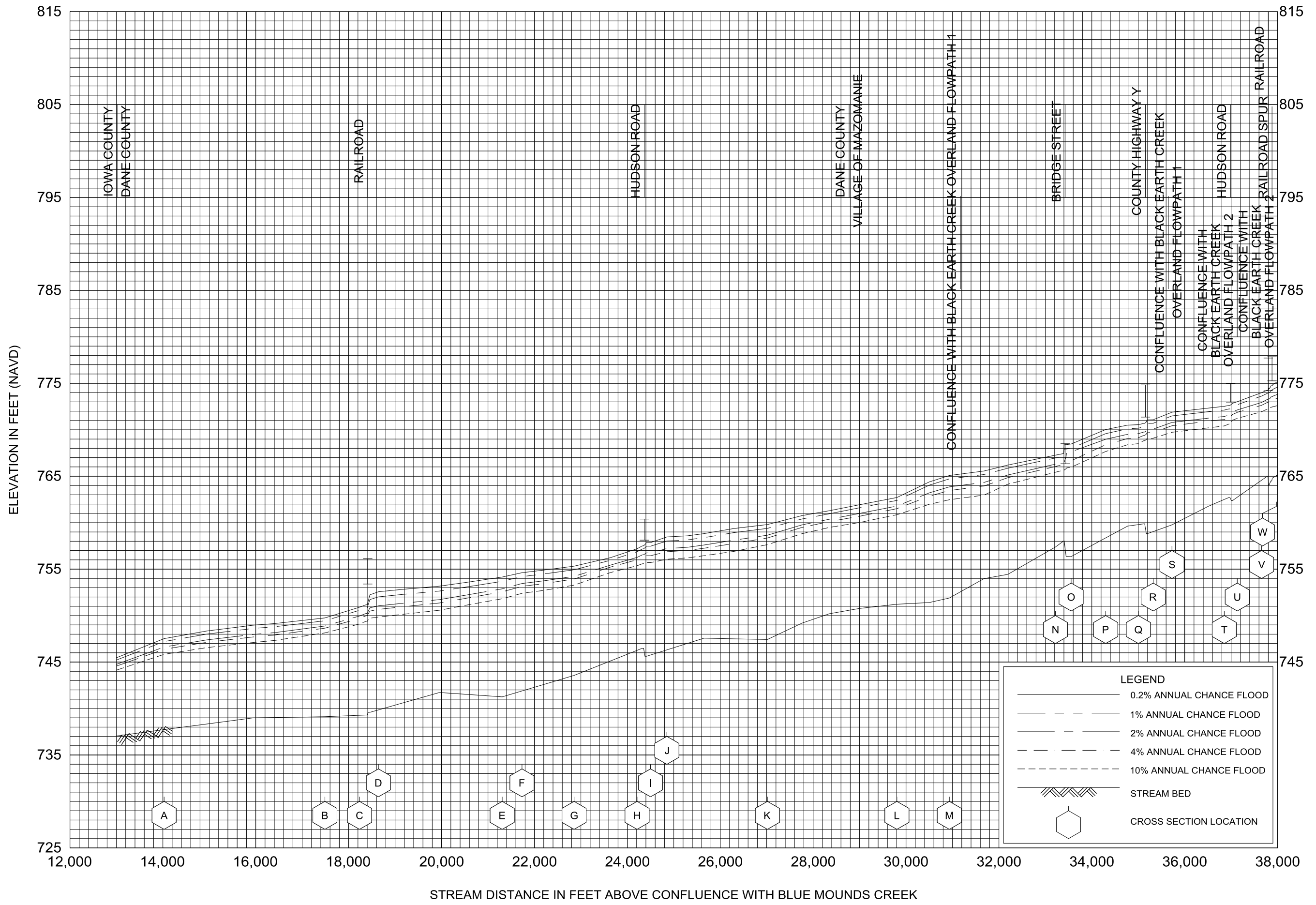


FLOOD PROFILES

BADGER MILL CREEK DIVERSION CHANNEL

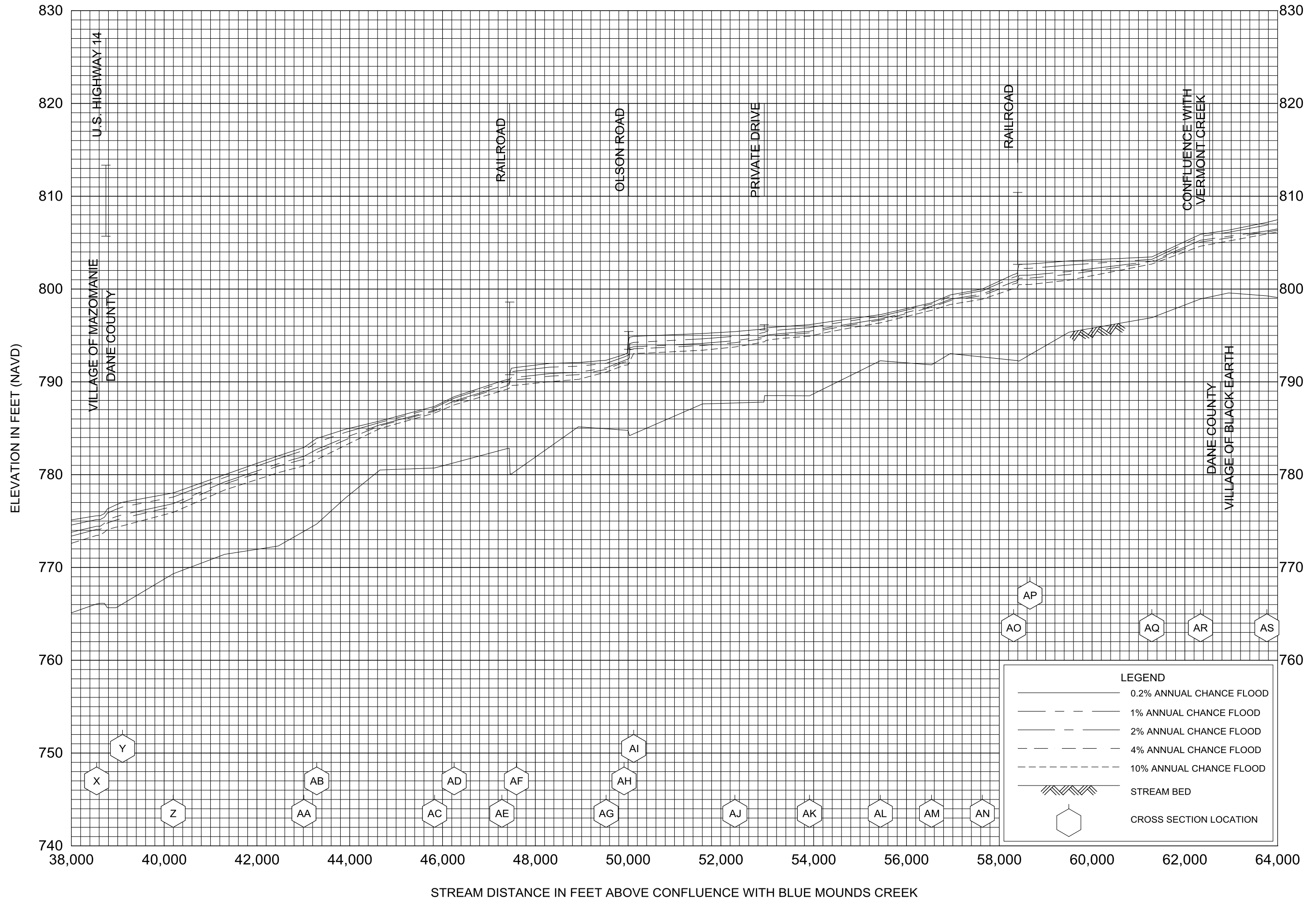
FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS



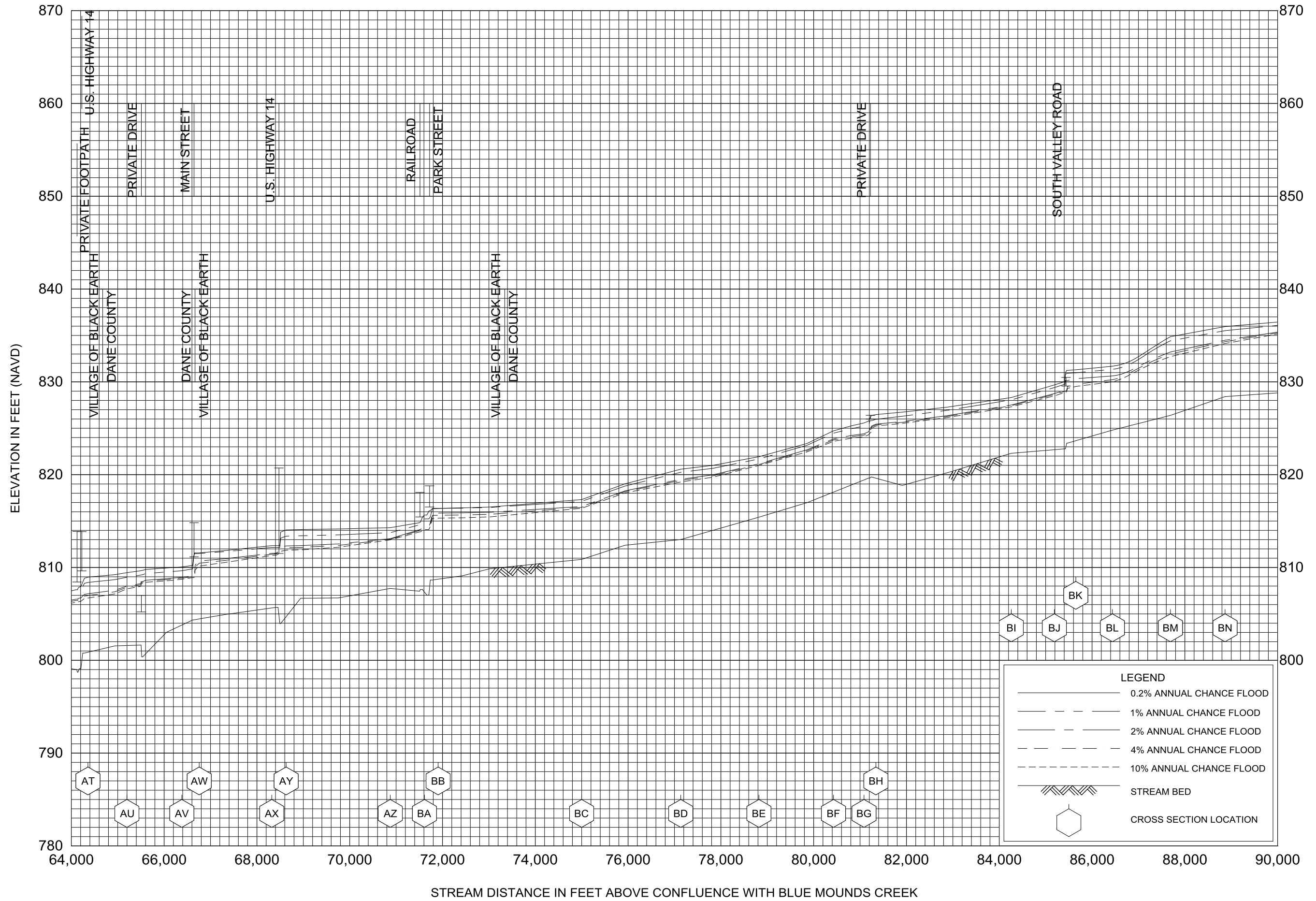
FLOOD PROFILES
BLACK EARTH CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
AND INCORPORATED AREAS



FLOOD PROFILES
BLACK EARTH CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
AND INCORPORATED AREAS

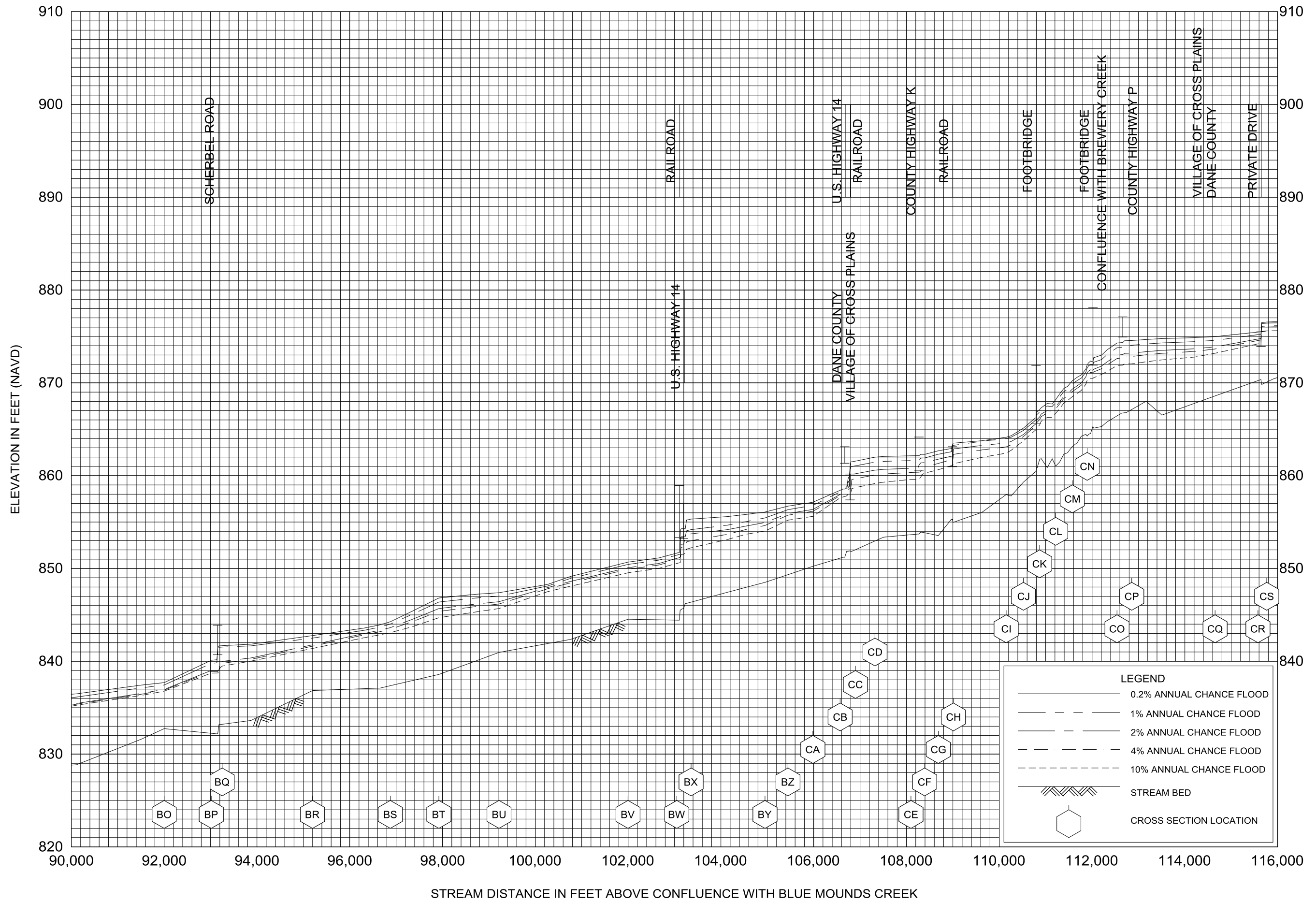


FLOOD PROFILES

BLACK EARTH CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS

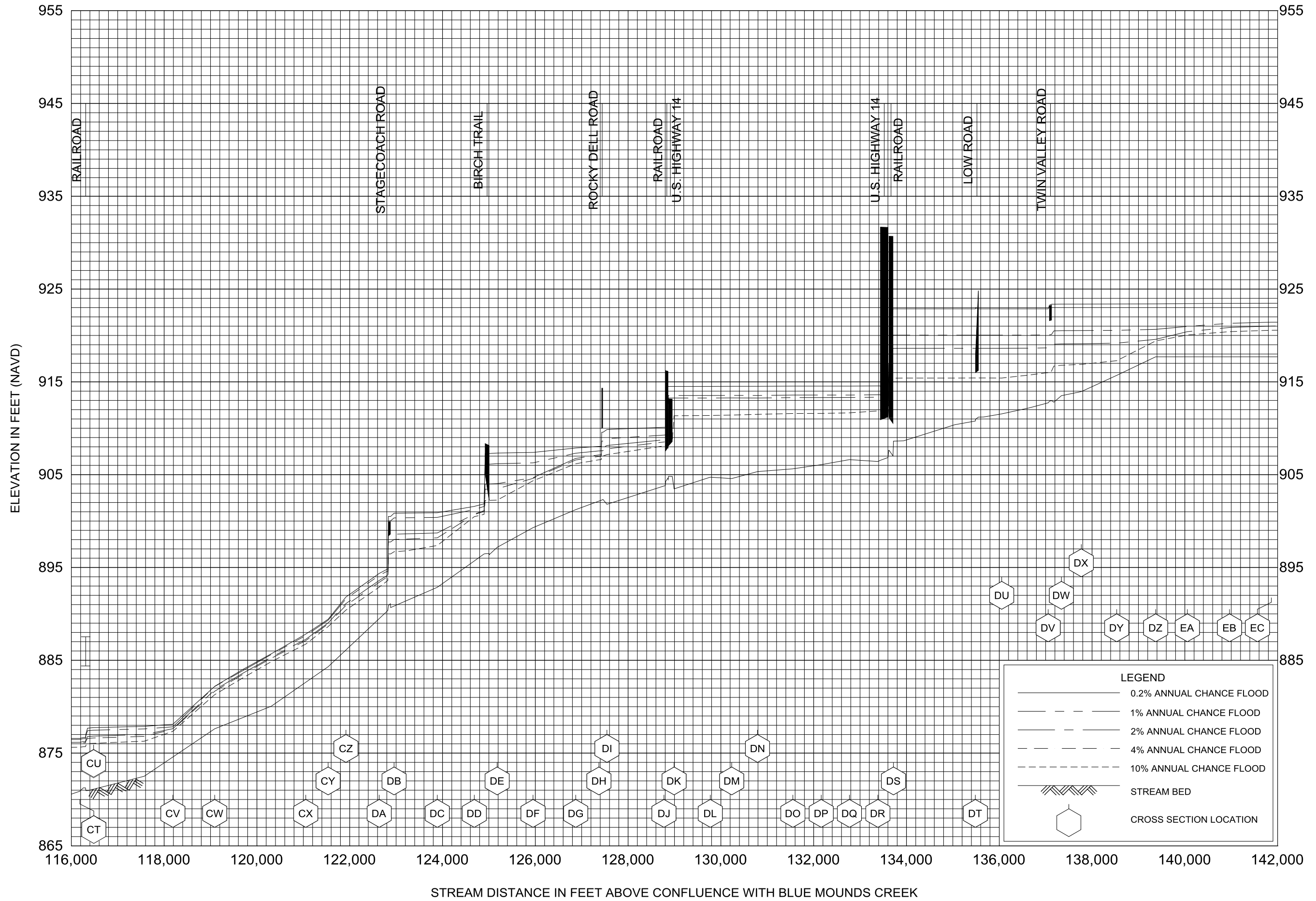


FLOOD PROFILES

BLACK EARTH CREEK

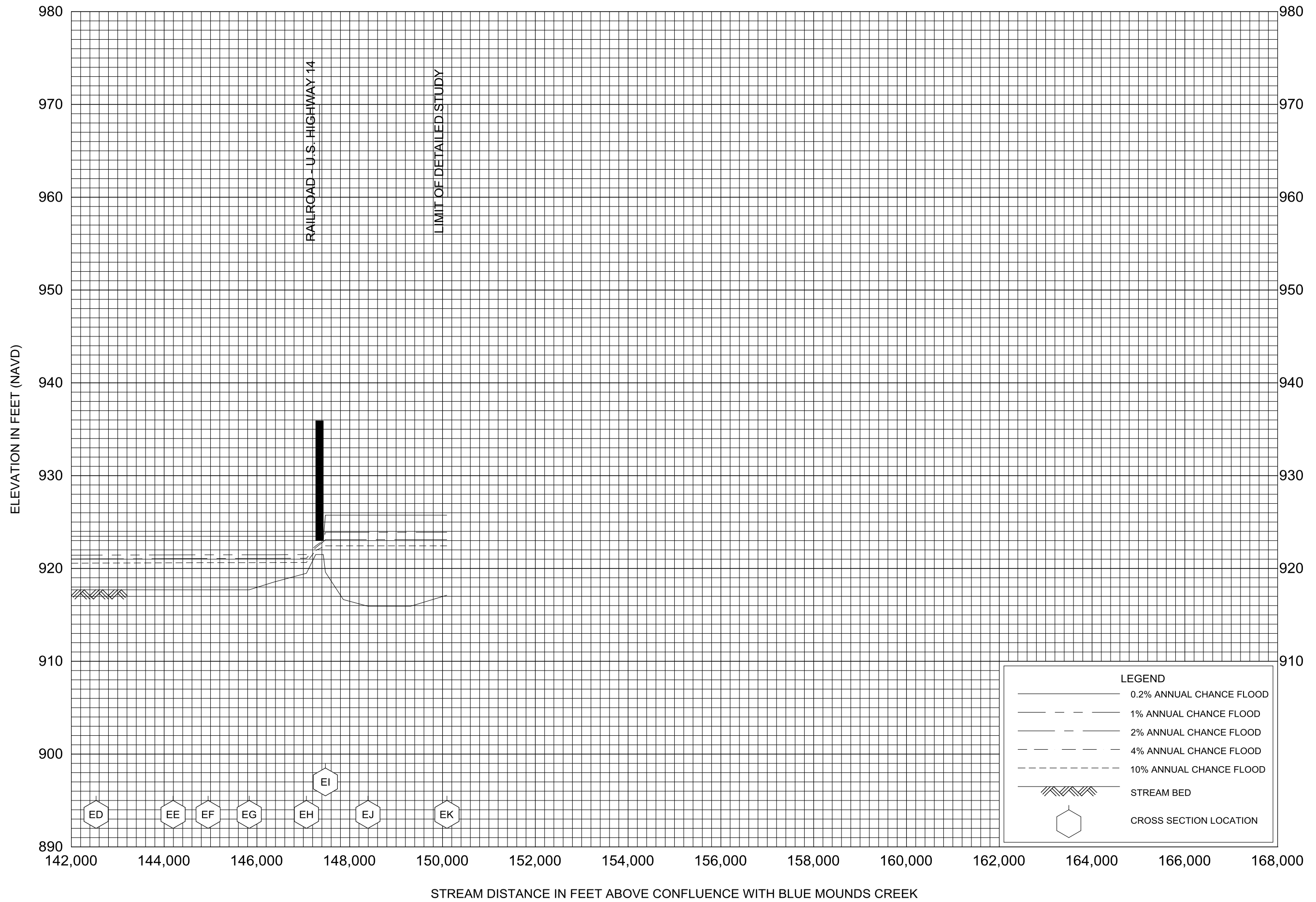
FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS



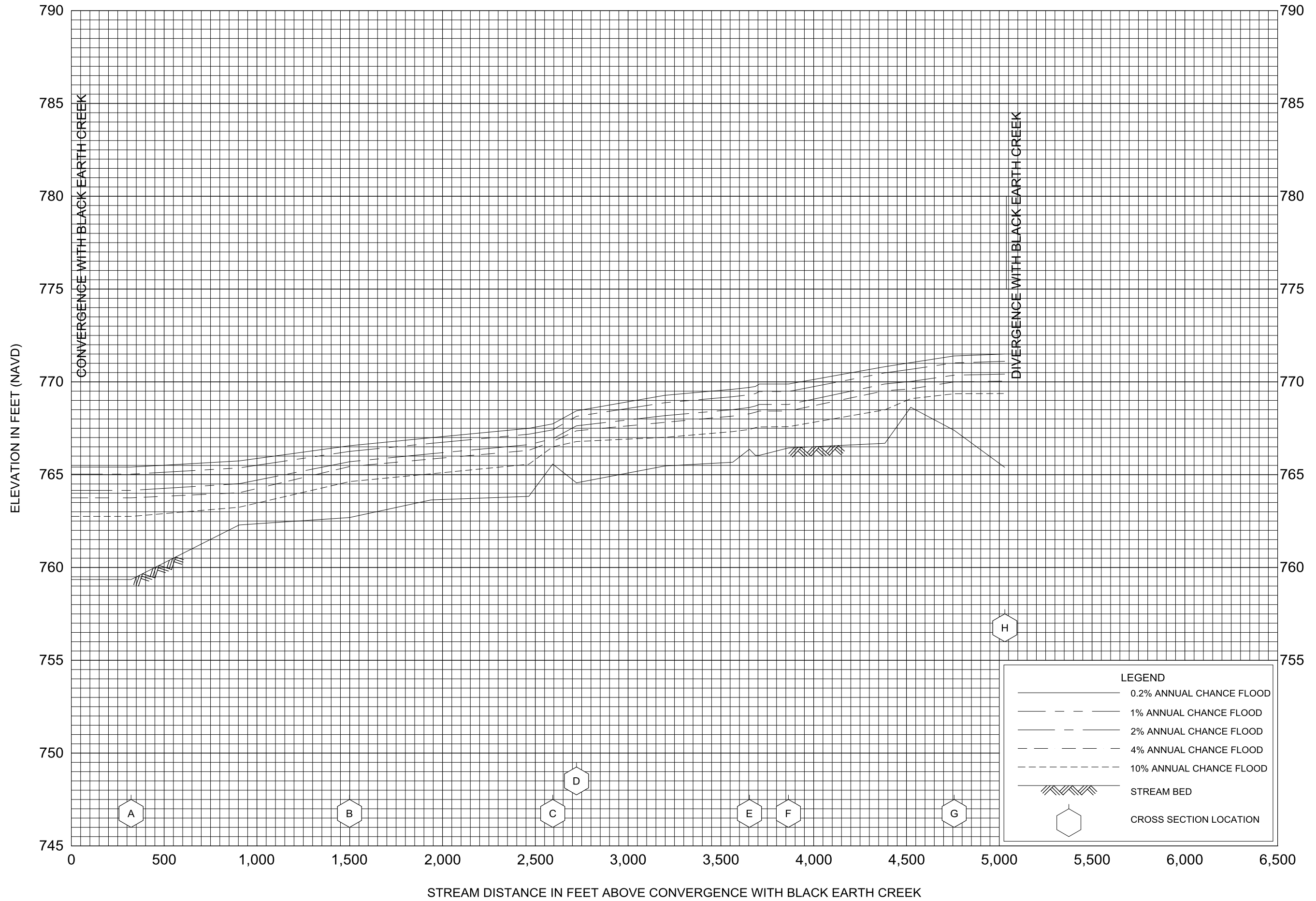
FLOOD PROFILES
BLACK EARTH CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
AND INCORPORATED AREAS



FLOOD PROFILES
BLACK EARTH CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
AND INCORPORATED AREAS

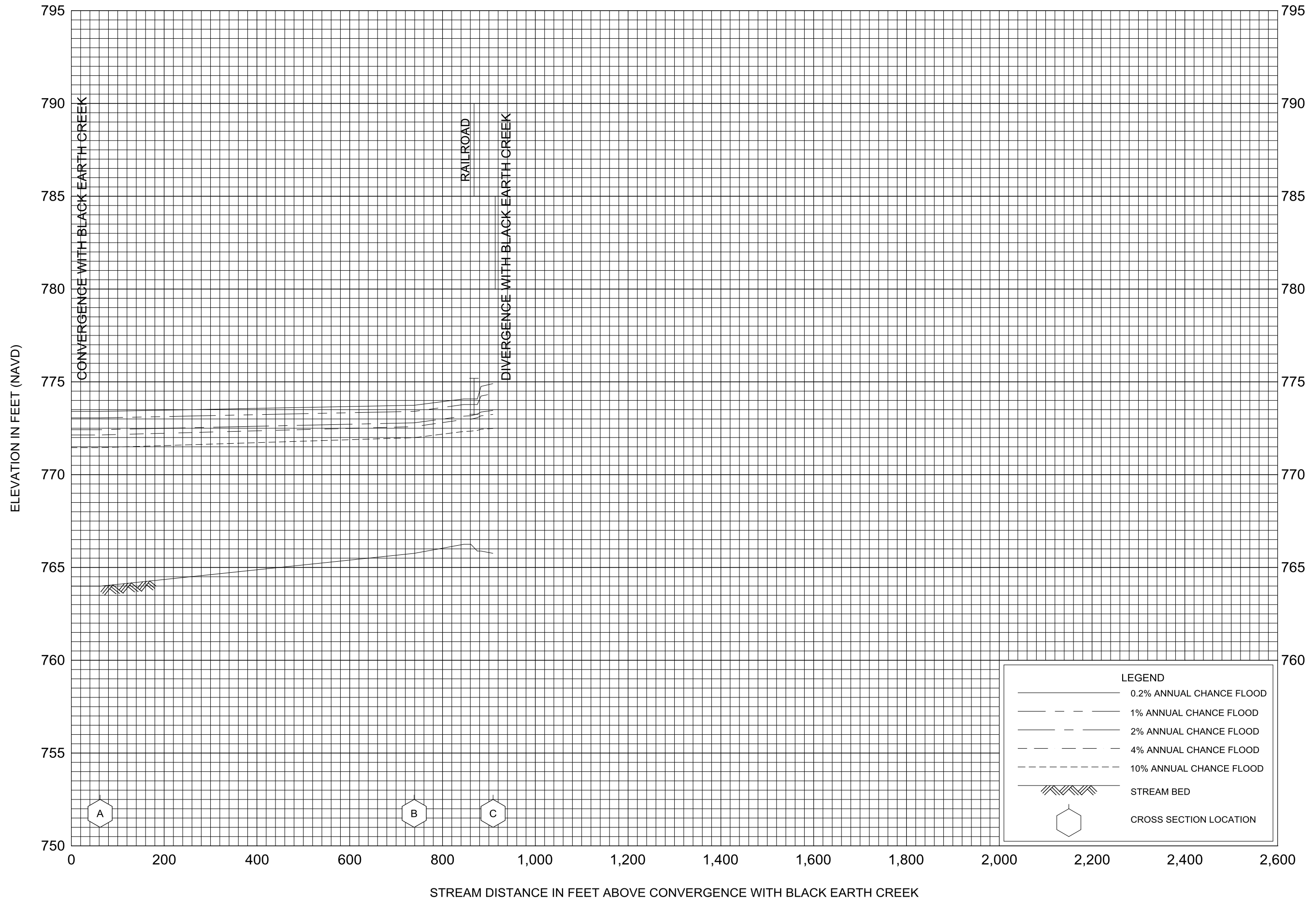


FLOOD PROFILES

BLACK EARTH CREEK OVERLAND FLOW PATH 1

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS

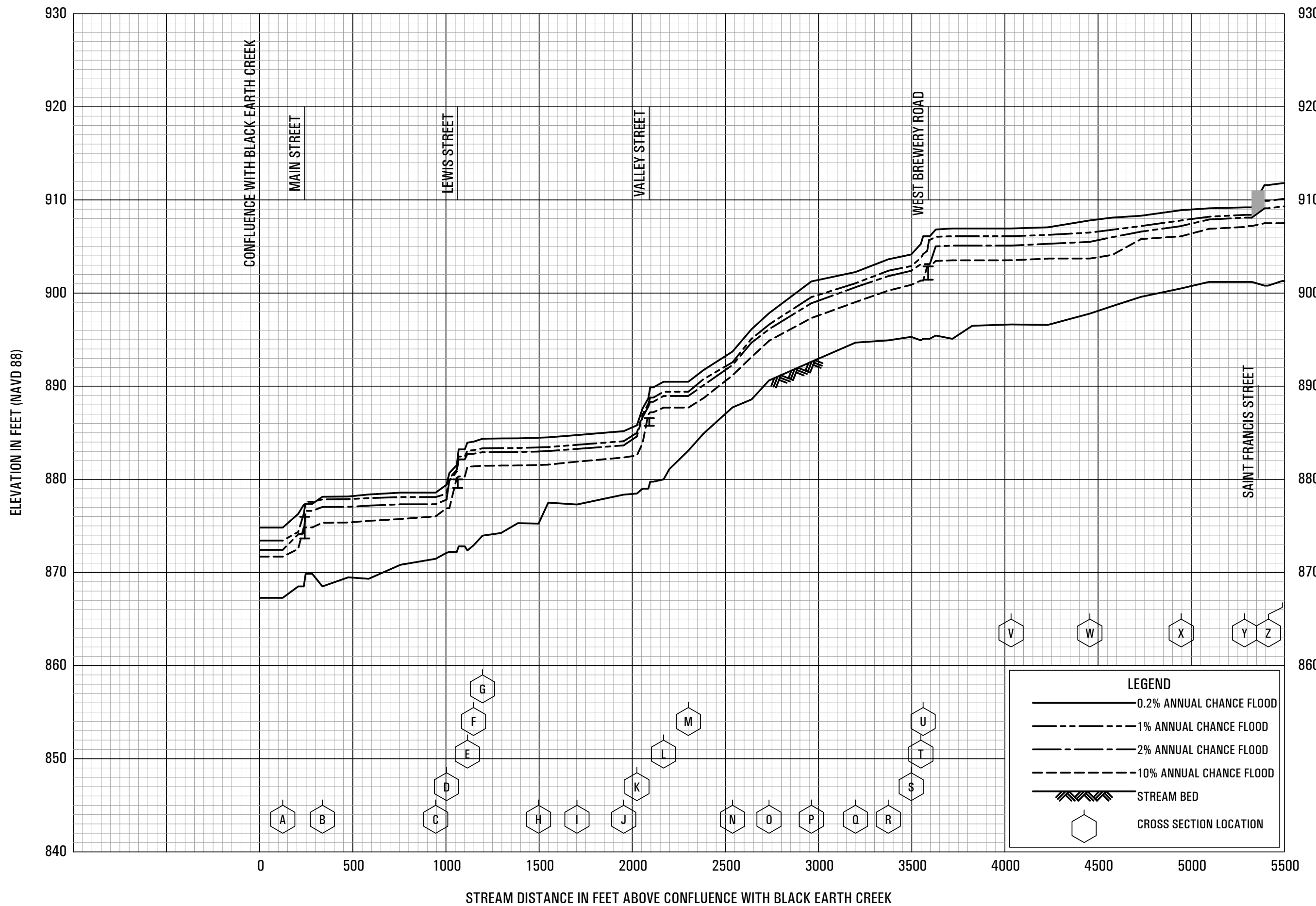


FLOOD PROFILES

BLACK EARTH CREEK OVERLAND FLOW PATH 2

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS

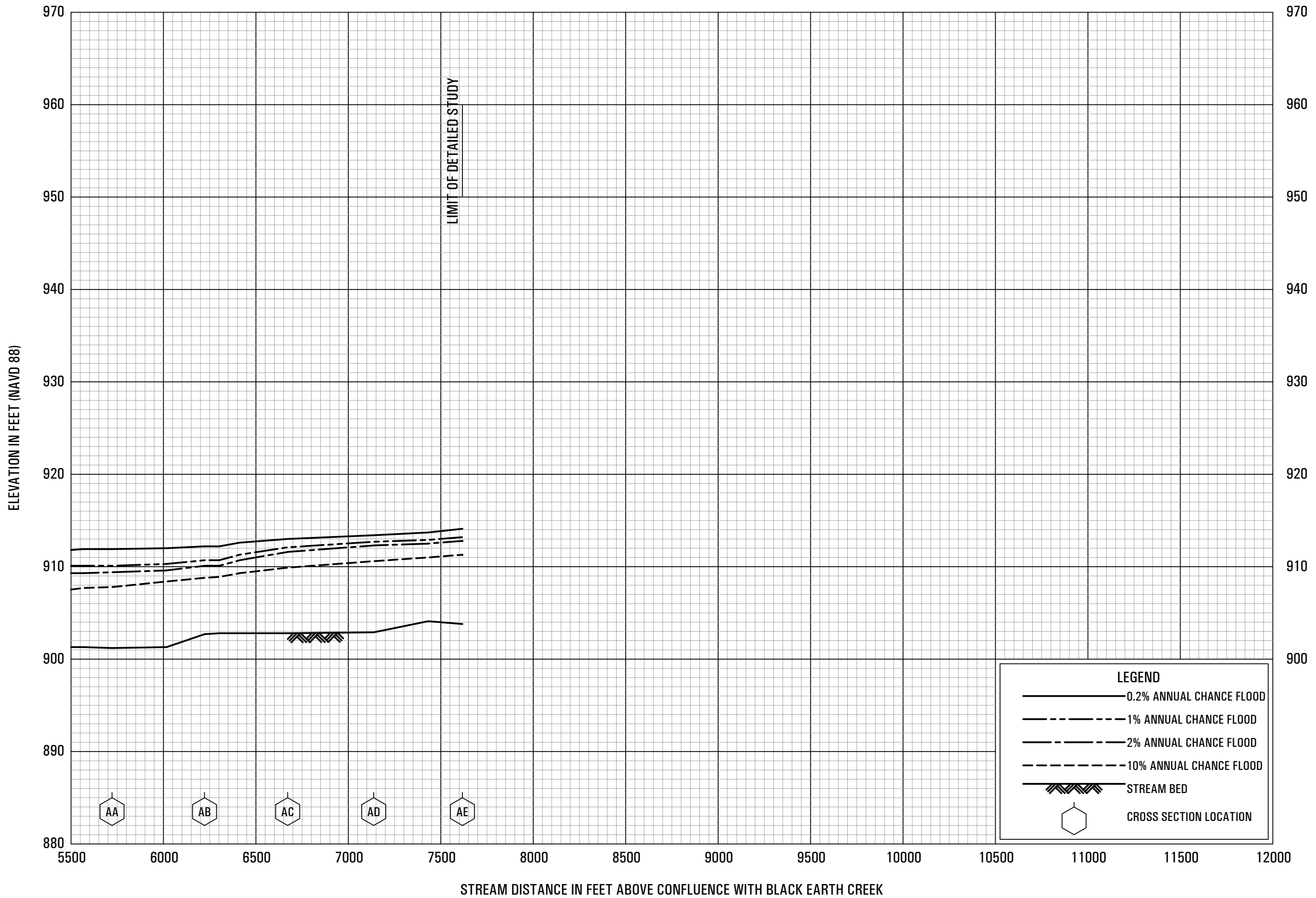


FLOOD PROFILES

BREWERY CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS

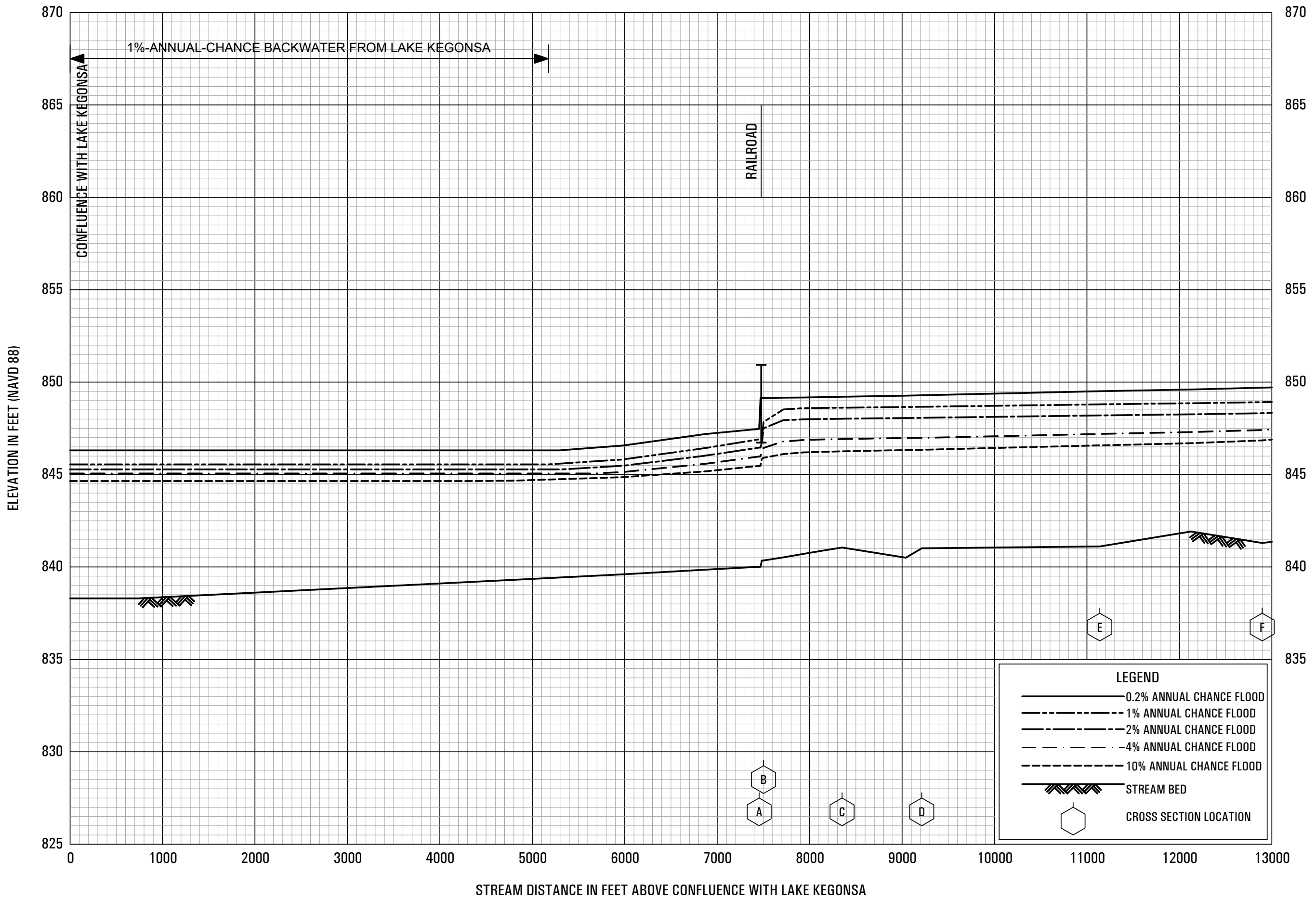


FLOOD PROFILES

BREWERY CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS

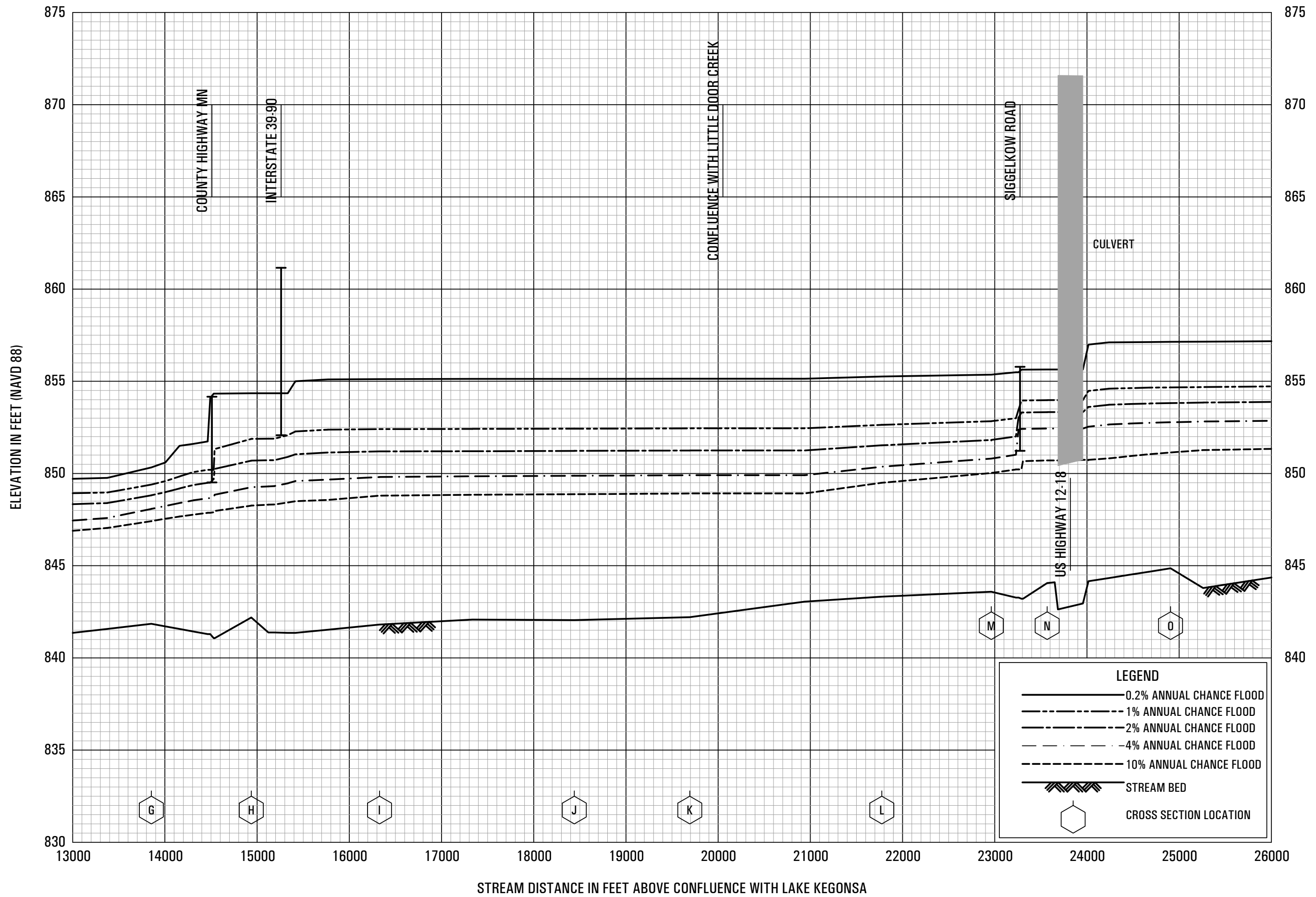


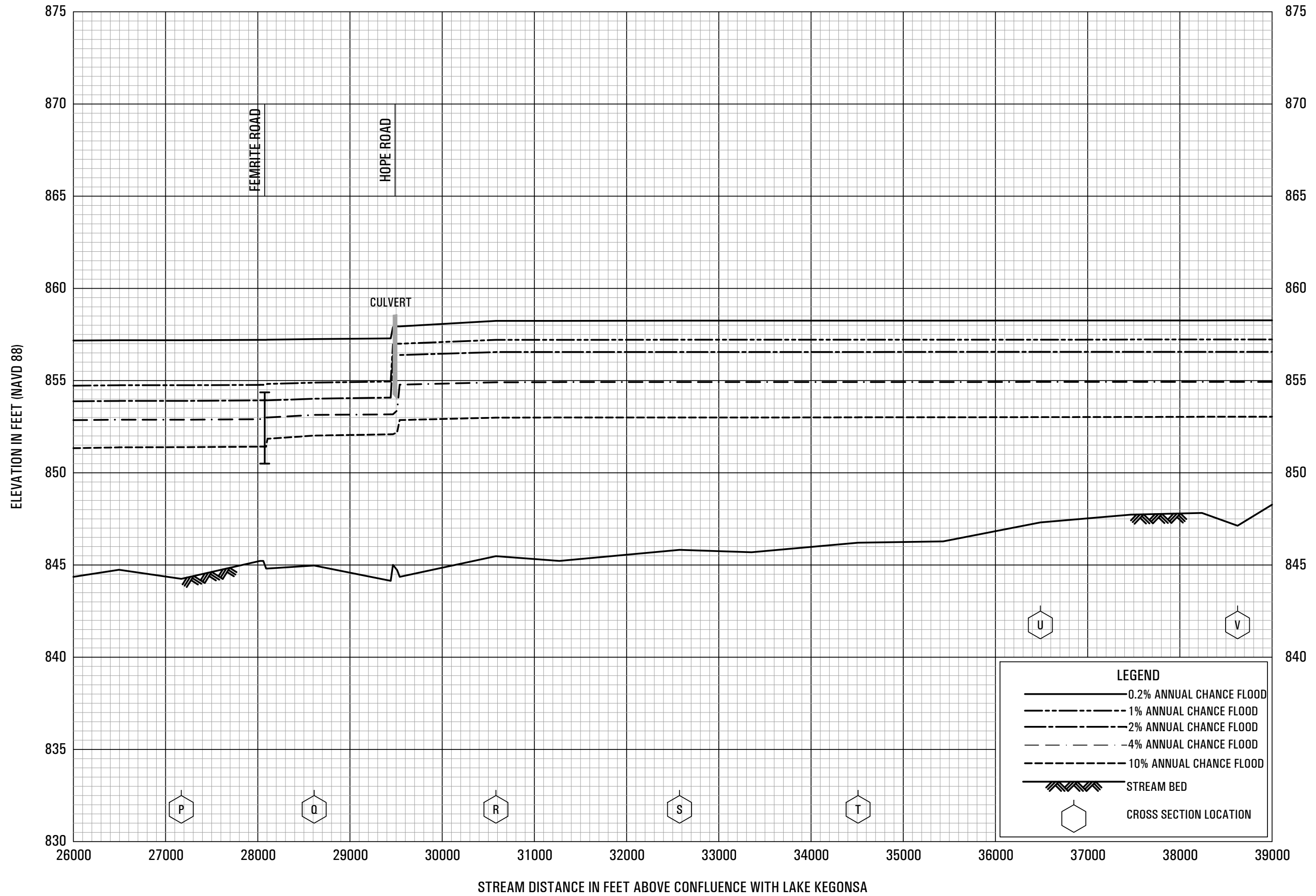
FLOOD PROFILES

DOOR CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS



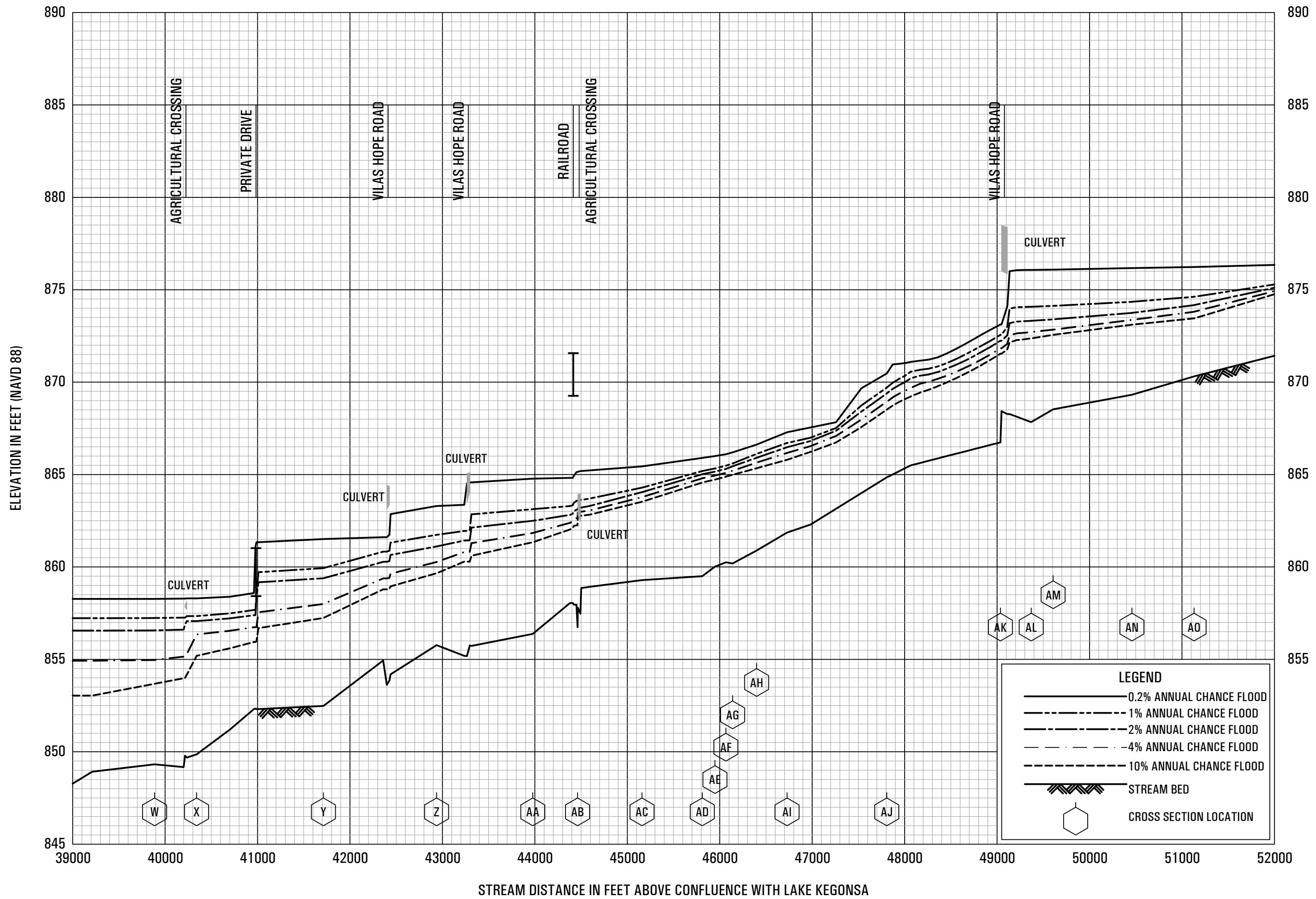


FLOOD PROFILES

DOOR CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS

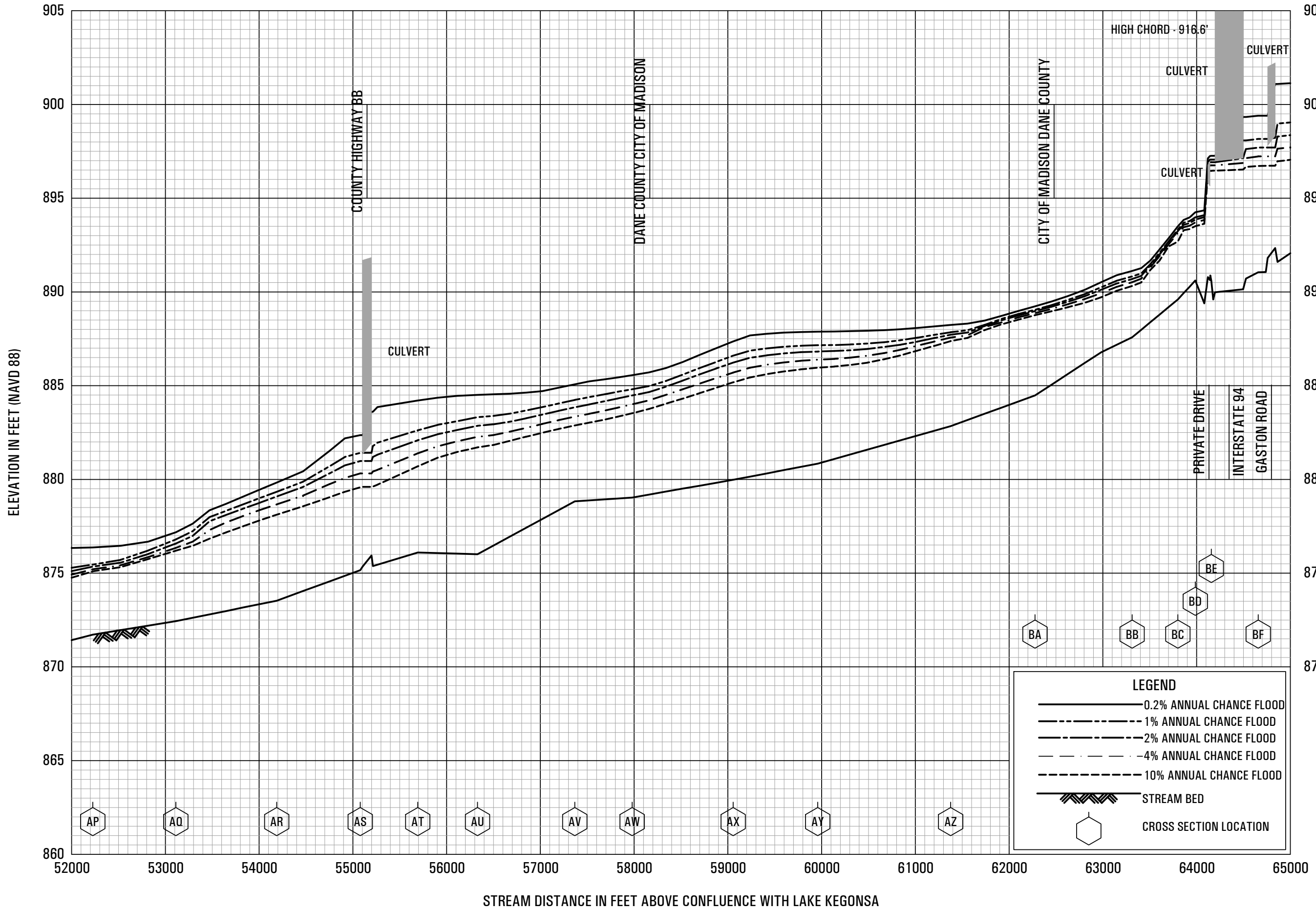


FLOOD PROFILES

DOOR CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

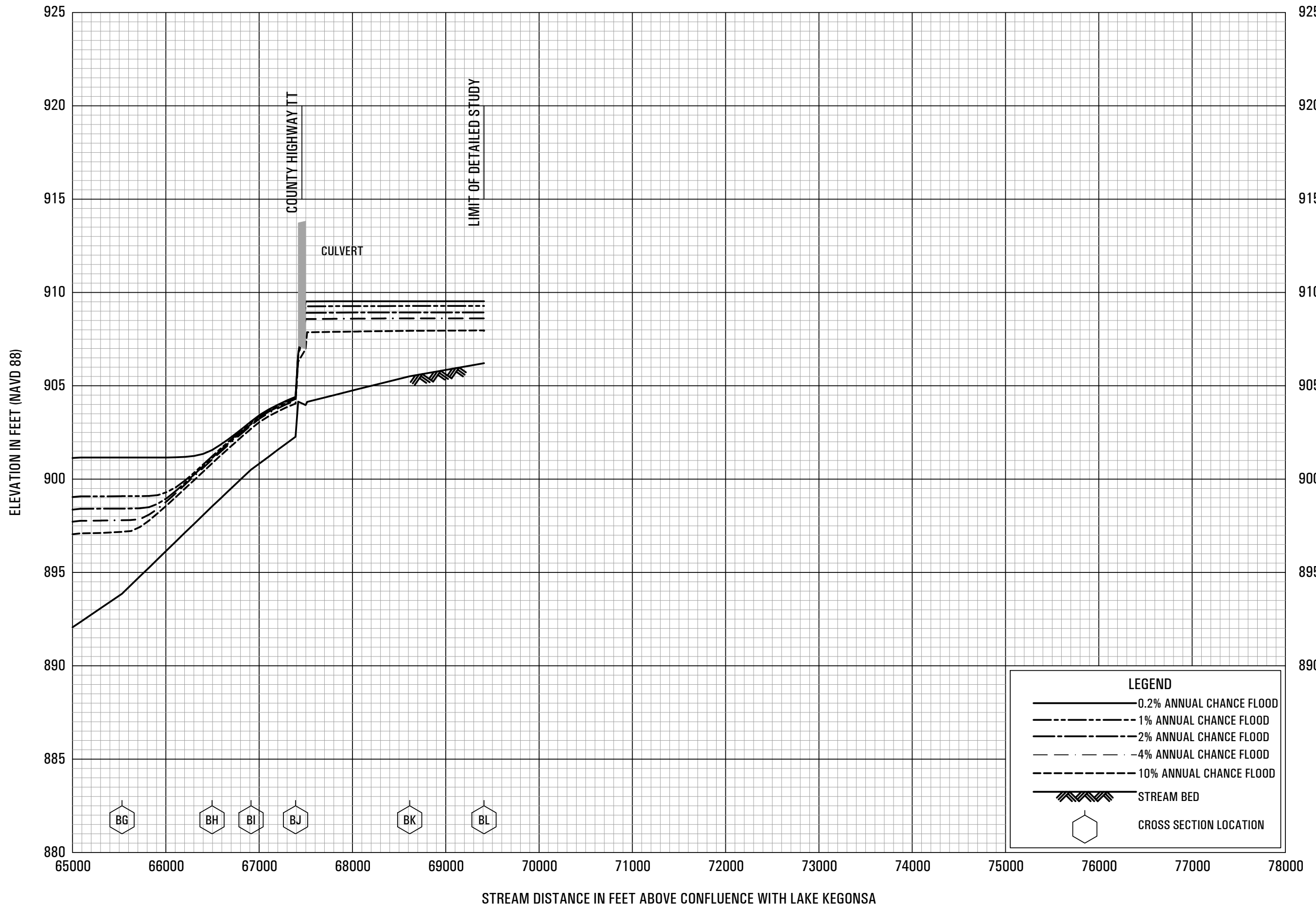
DANE COUNTY, WI
AND INCORPORATED AREAS



FLOOD PROFILES

DOOR CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
AND INCORPORATED AREAS

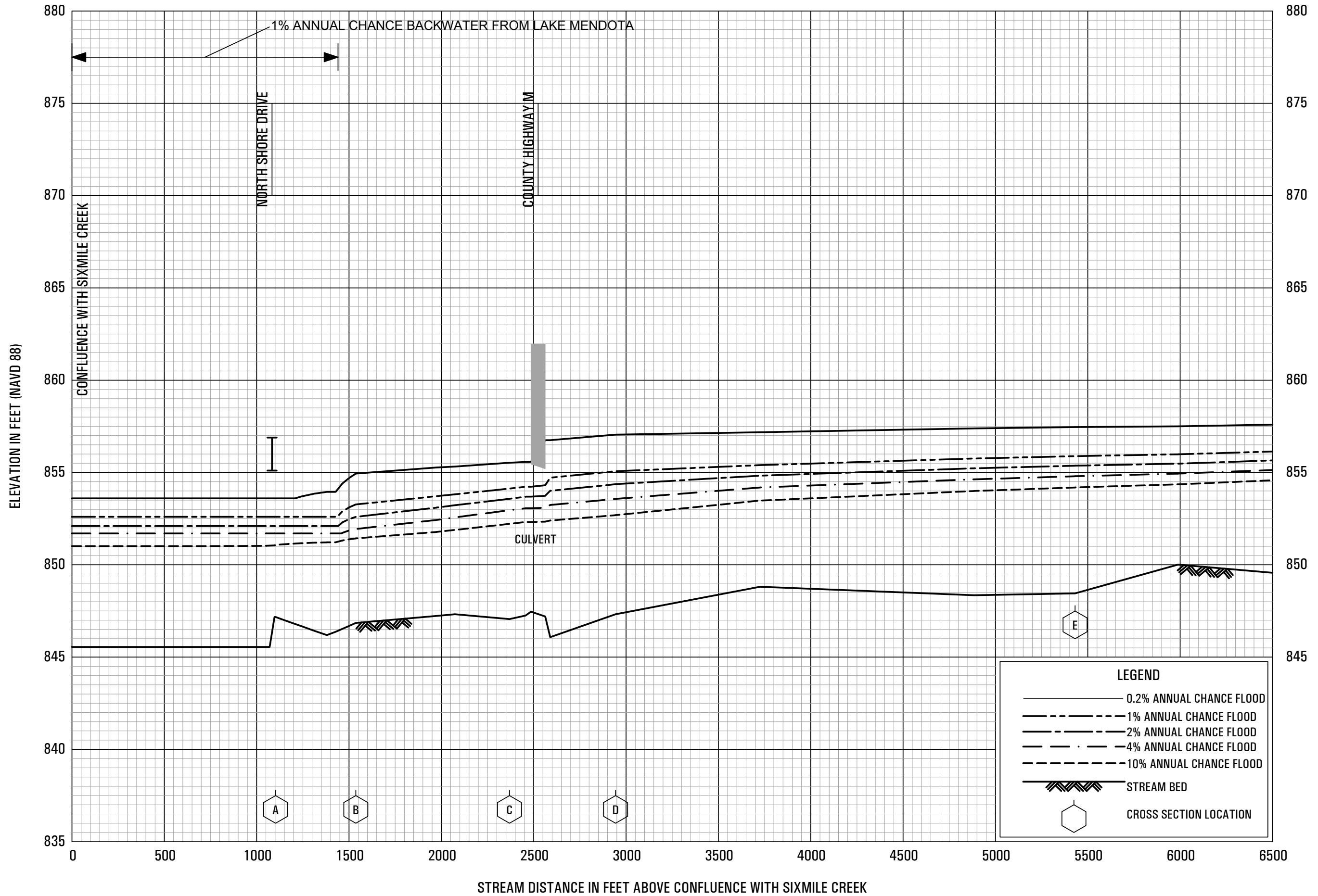


FLOOD PROFILES

DOOR CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS

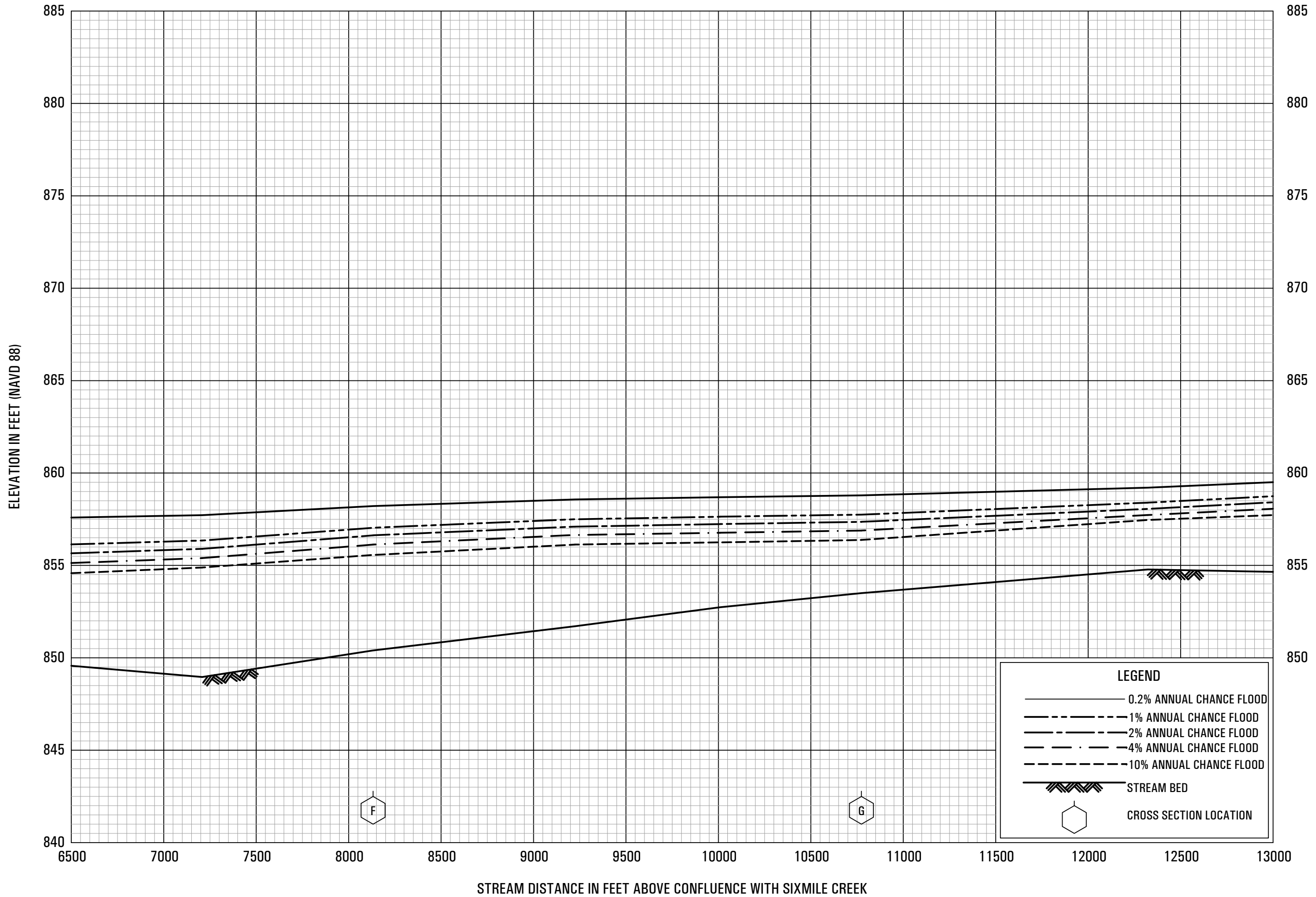


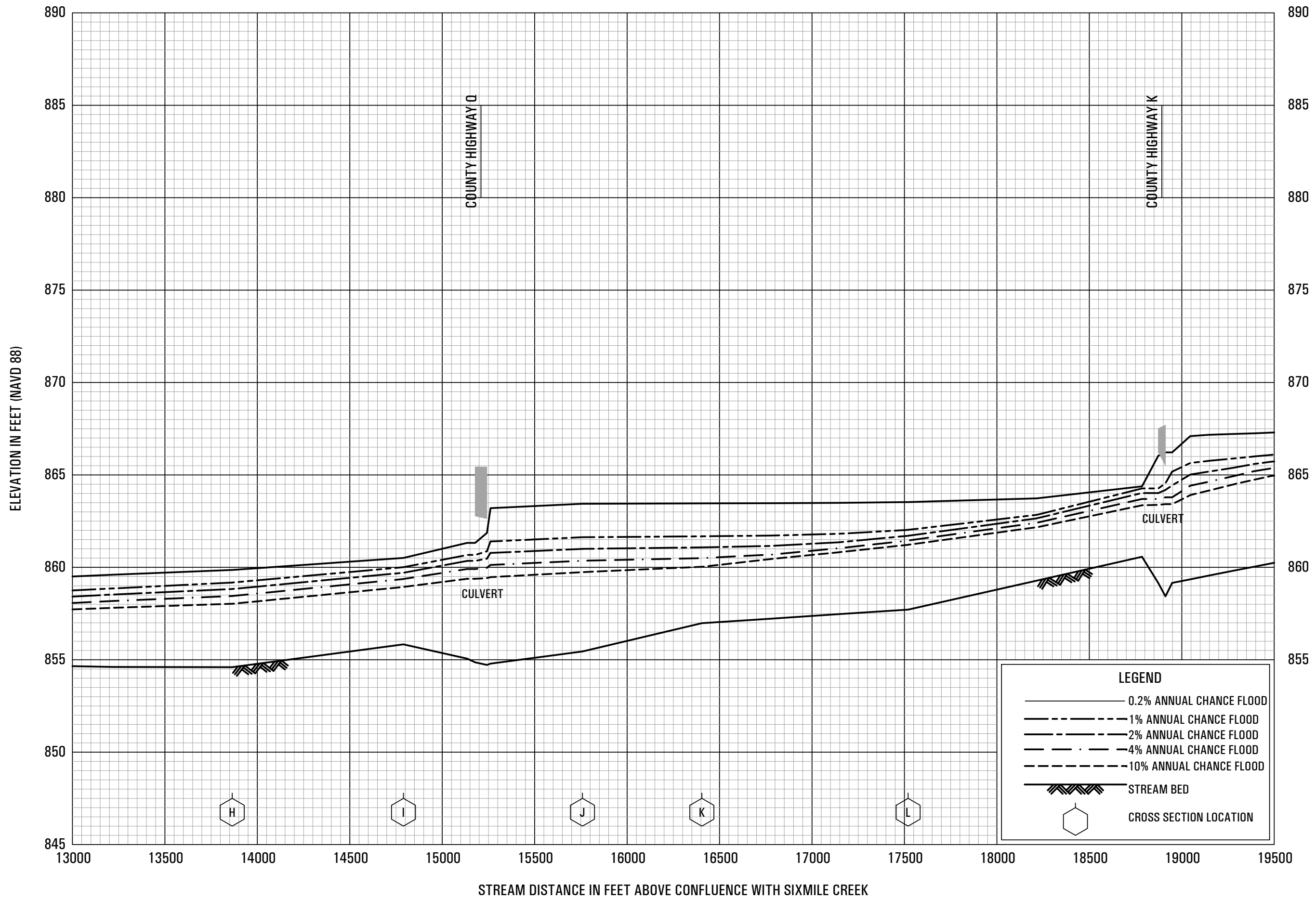
FLOOD PROFILES

DORN CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DANE COUNTY, WI
AND INCORPORATED AREAS**



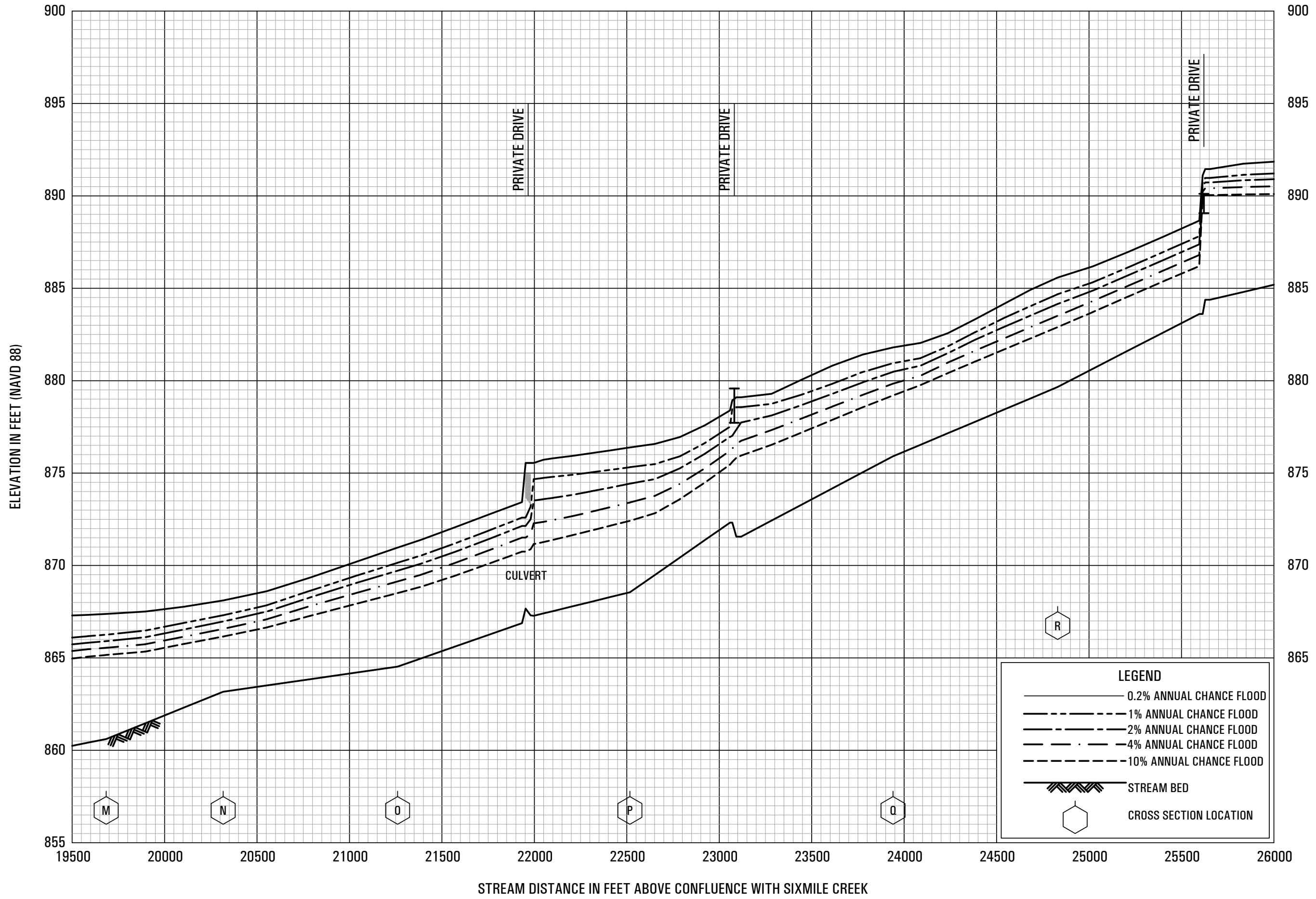


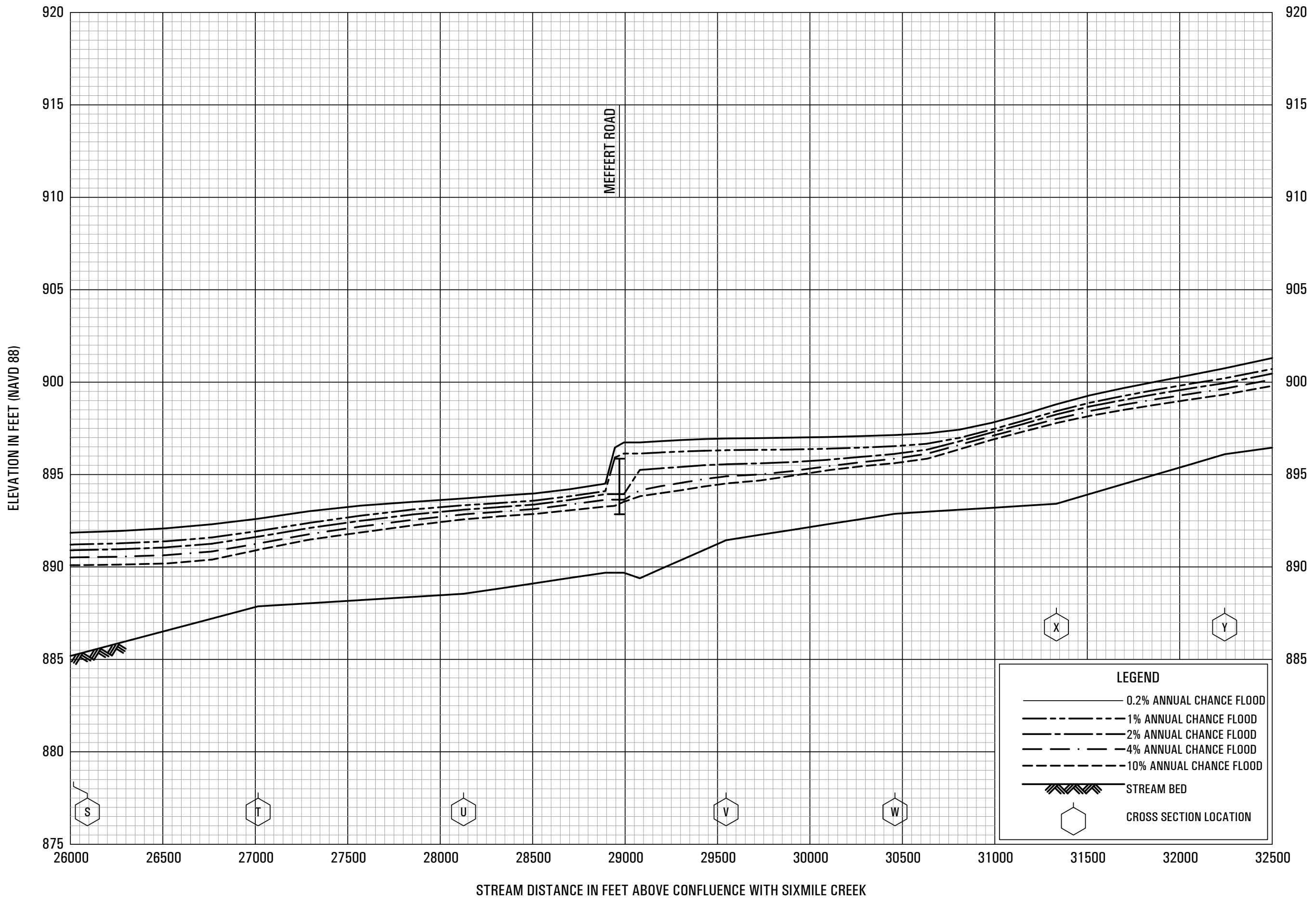
FLOOD PROFILES

DORN CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS



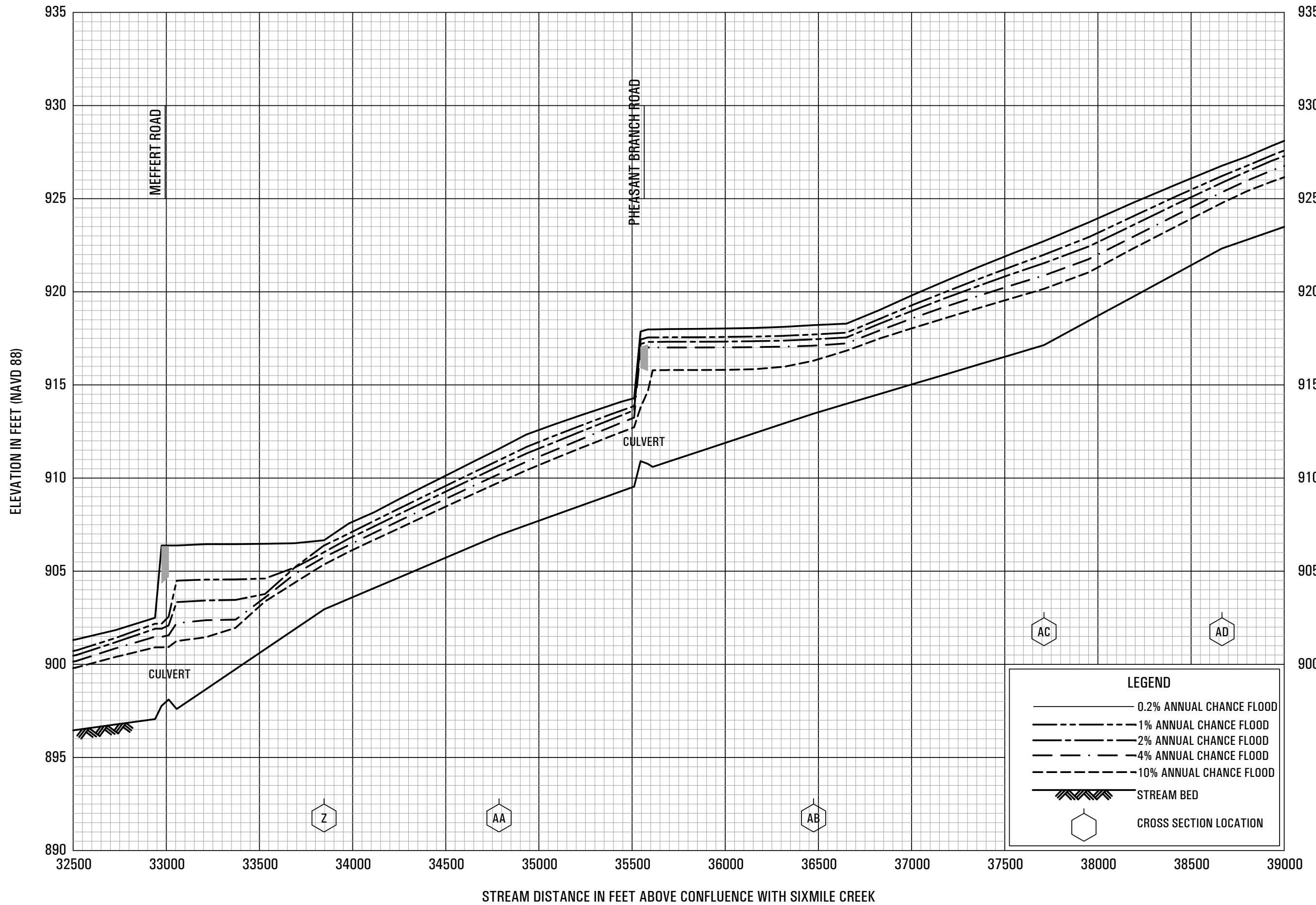


FLOOD PROFILES

DORN CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS

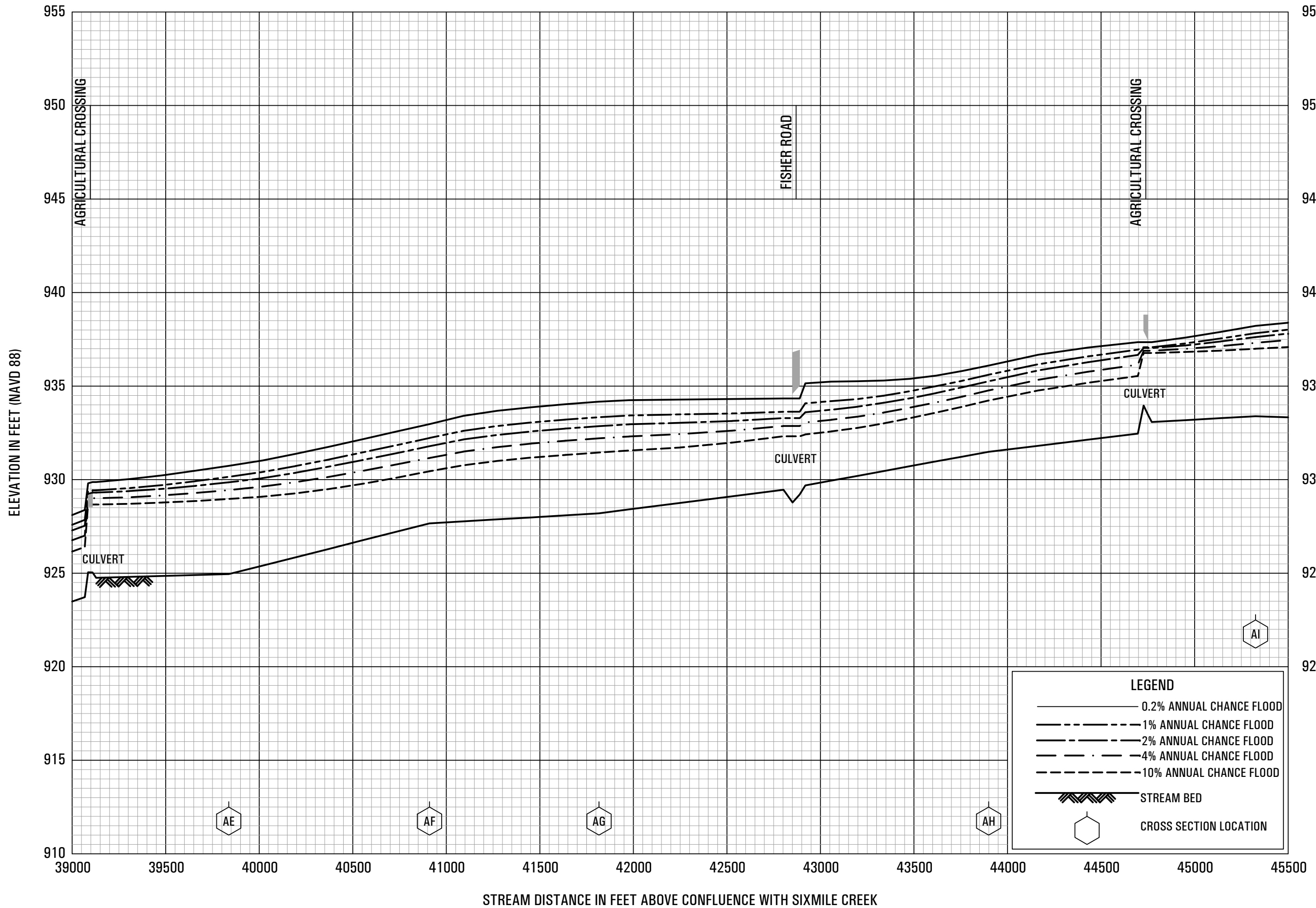


FLOOD PROFILES

DORN CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS

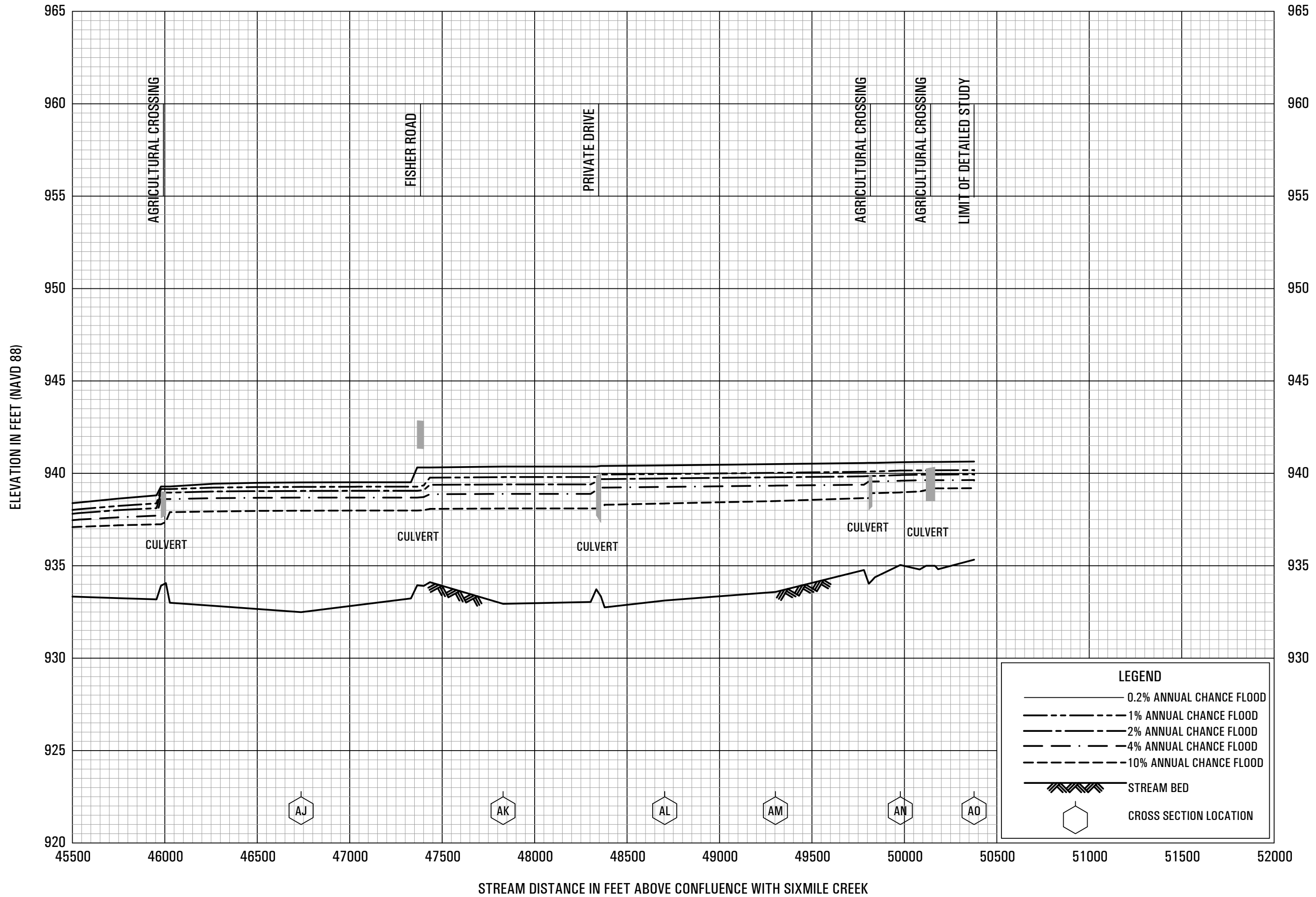


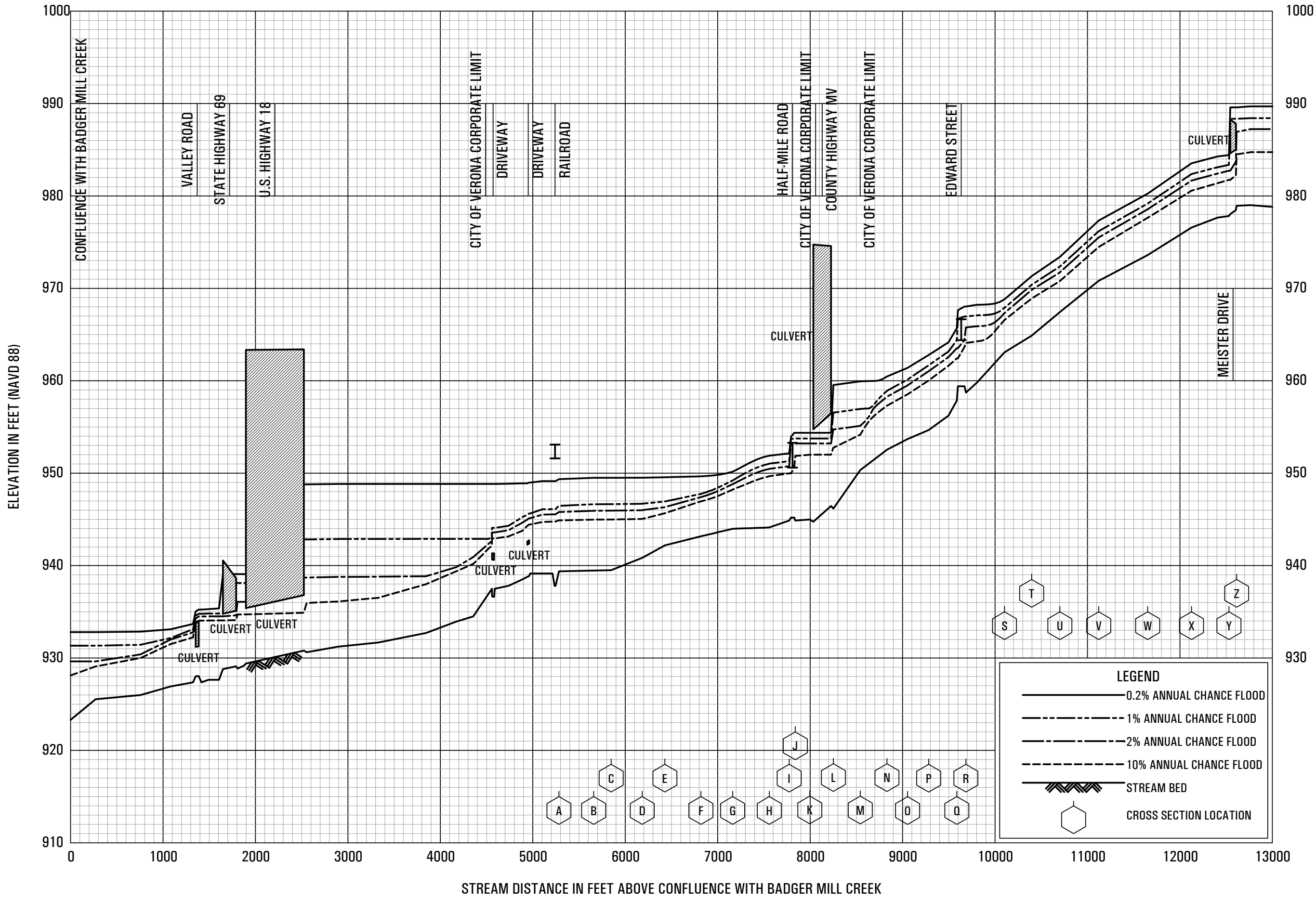
FLOOD PROFILES

DORN CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS



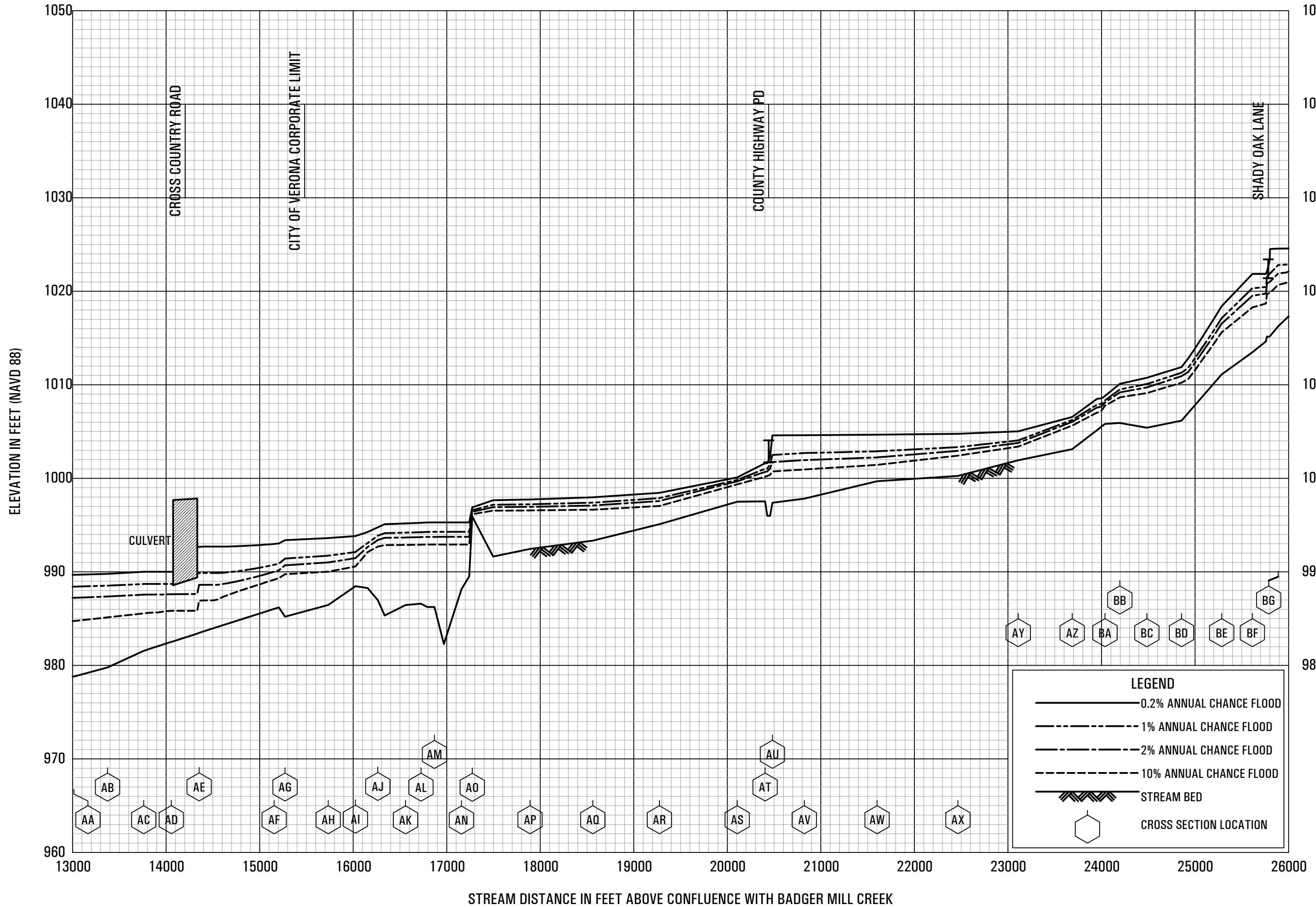


FLOOD PROFILES

DRY TRIBUTARY TO BADGER MILL CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

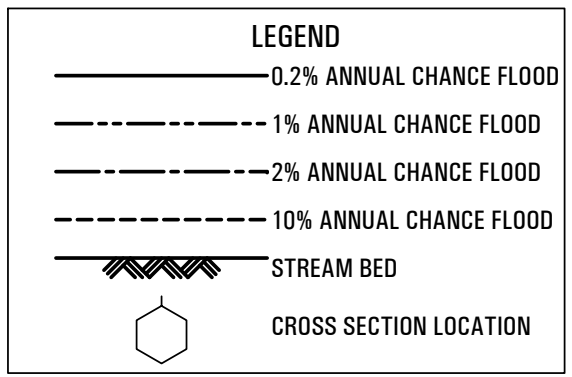
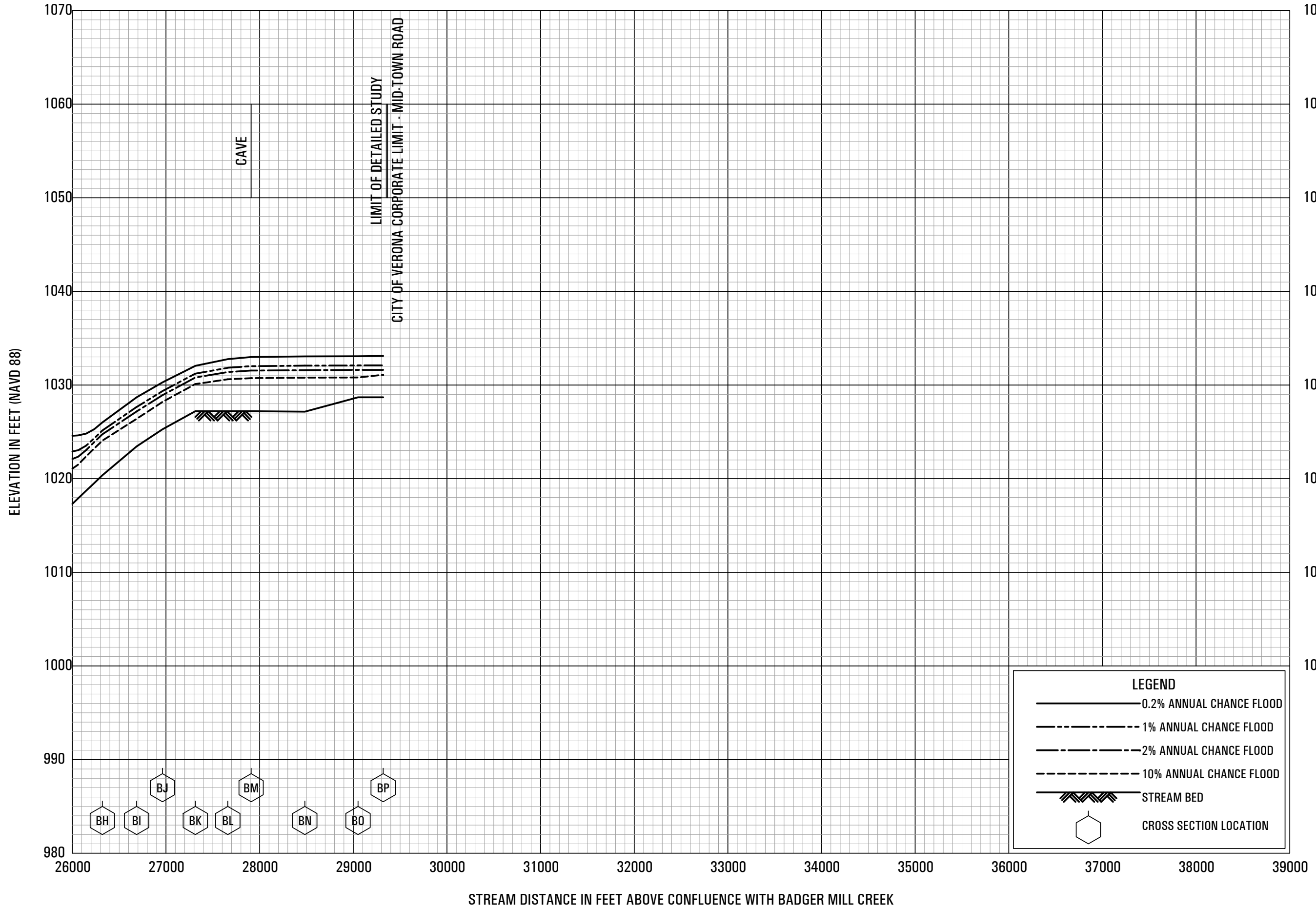
**DANE COUNTY, WI
AND INCORPORATED AREAS**



FLOOD PROFILES

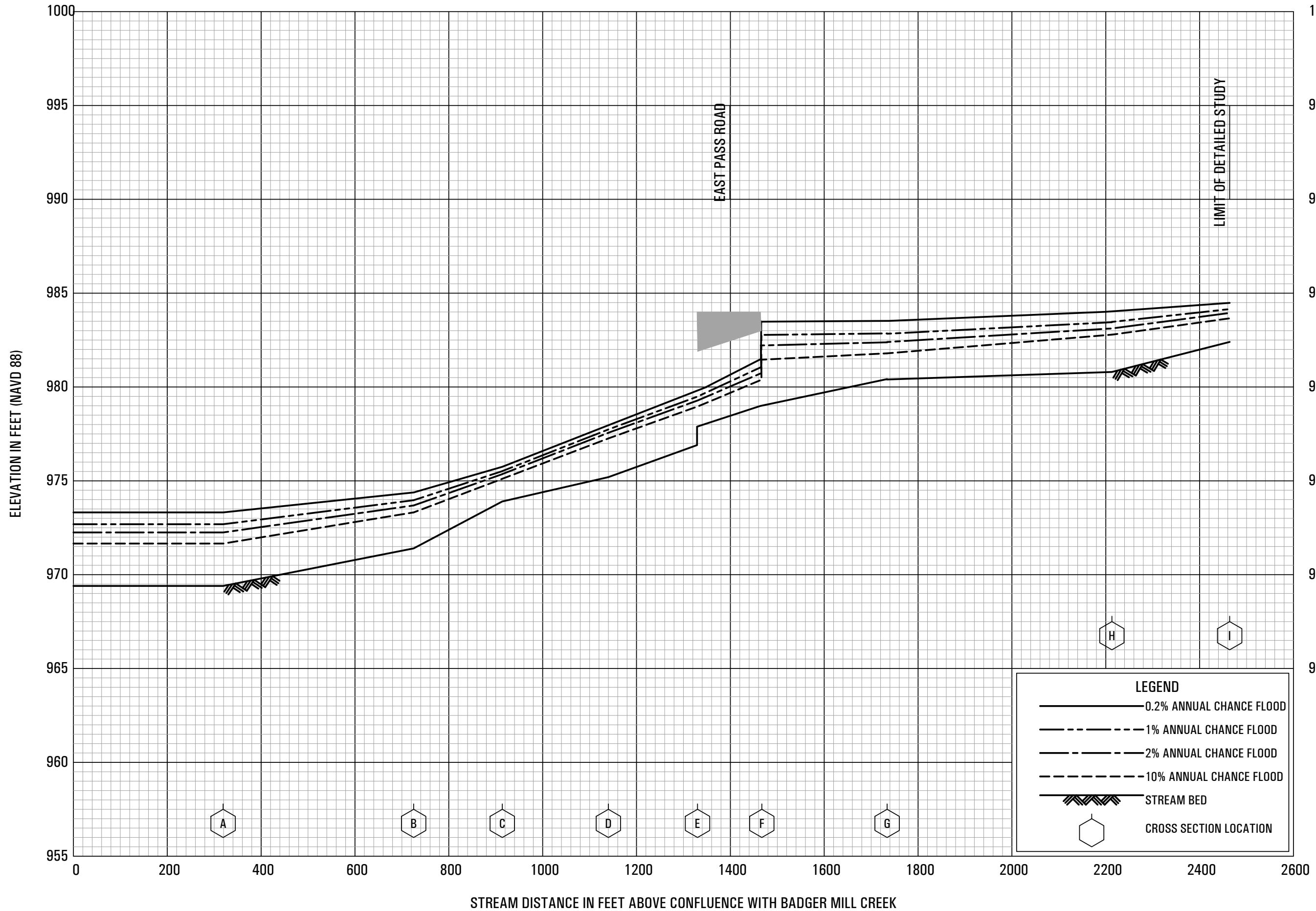
DRY TRIBUTARY TO BADGER MILL CREEK

**FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
AND INCORPORATED AREAS**



FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
 AND INCORPORATED AREAS

FLOOD PROFILES
 DRY TRIBUTARY TO BADGER MILL CREEK

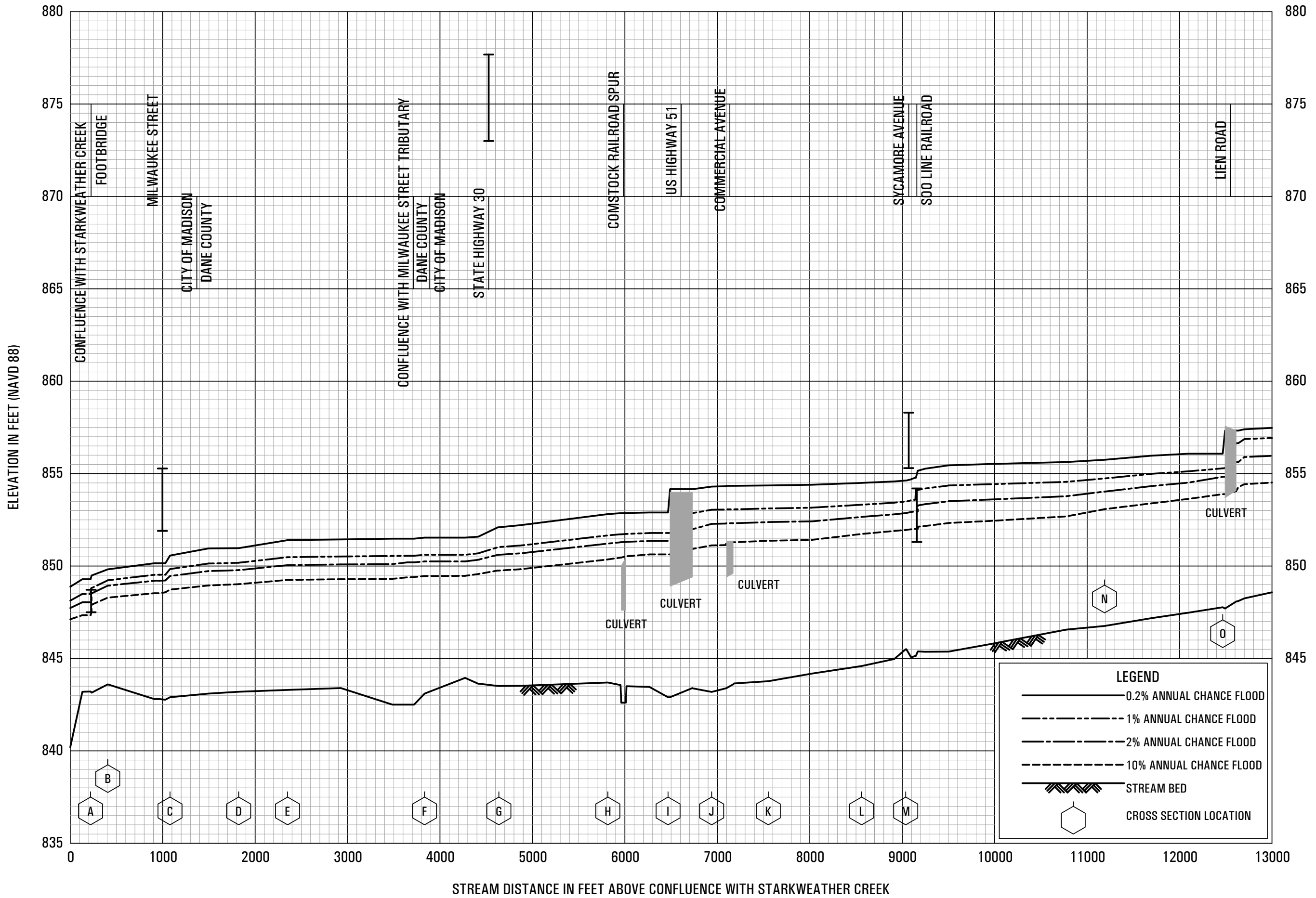


FLOOD PROFILES

EAST BRANCH BADGER MILL CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS

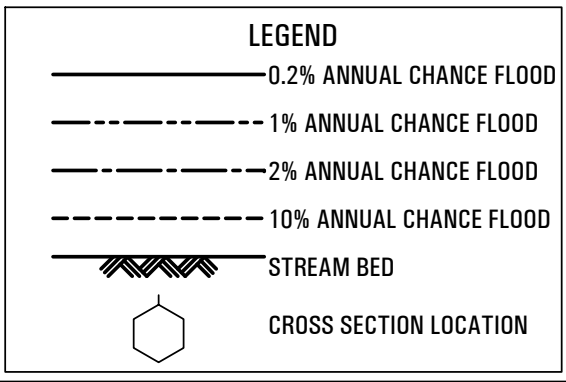
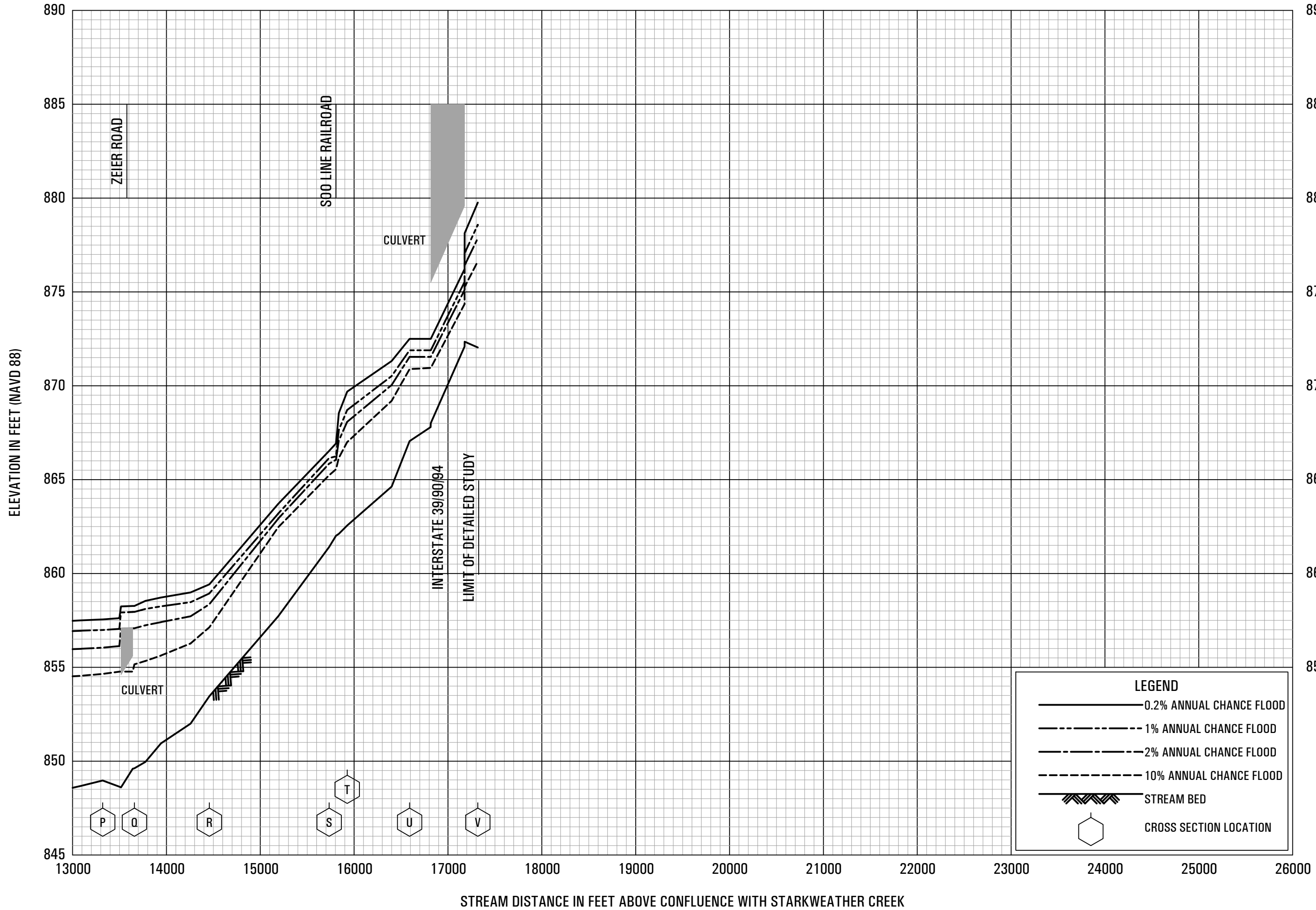


FLOOD PROFILES

EAST BRANCH STARKWEATHER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DANE COUNTY, WI
AND INCORPORATED AREAS**

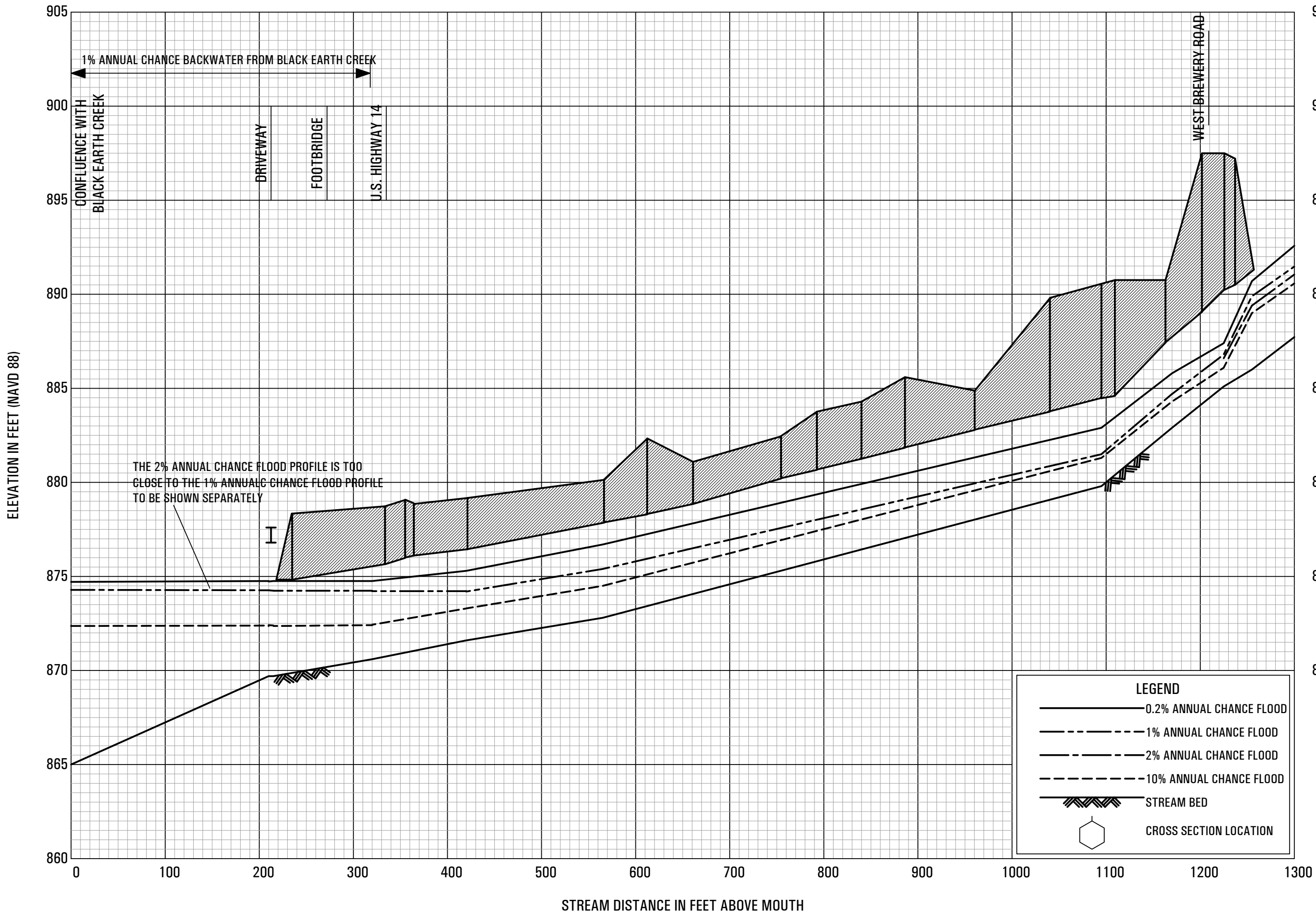


FLOOD PROFILES

EAST BRANCH STARKWEATHER CREEK

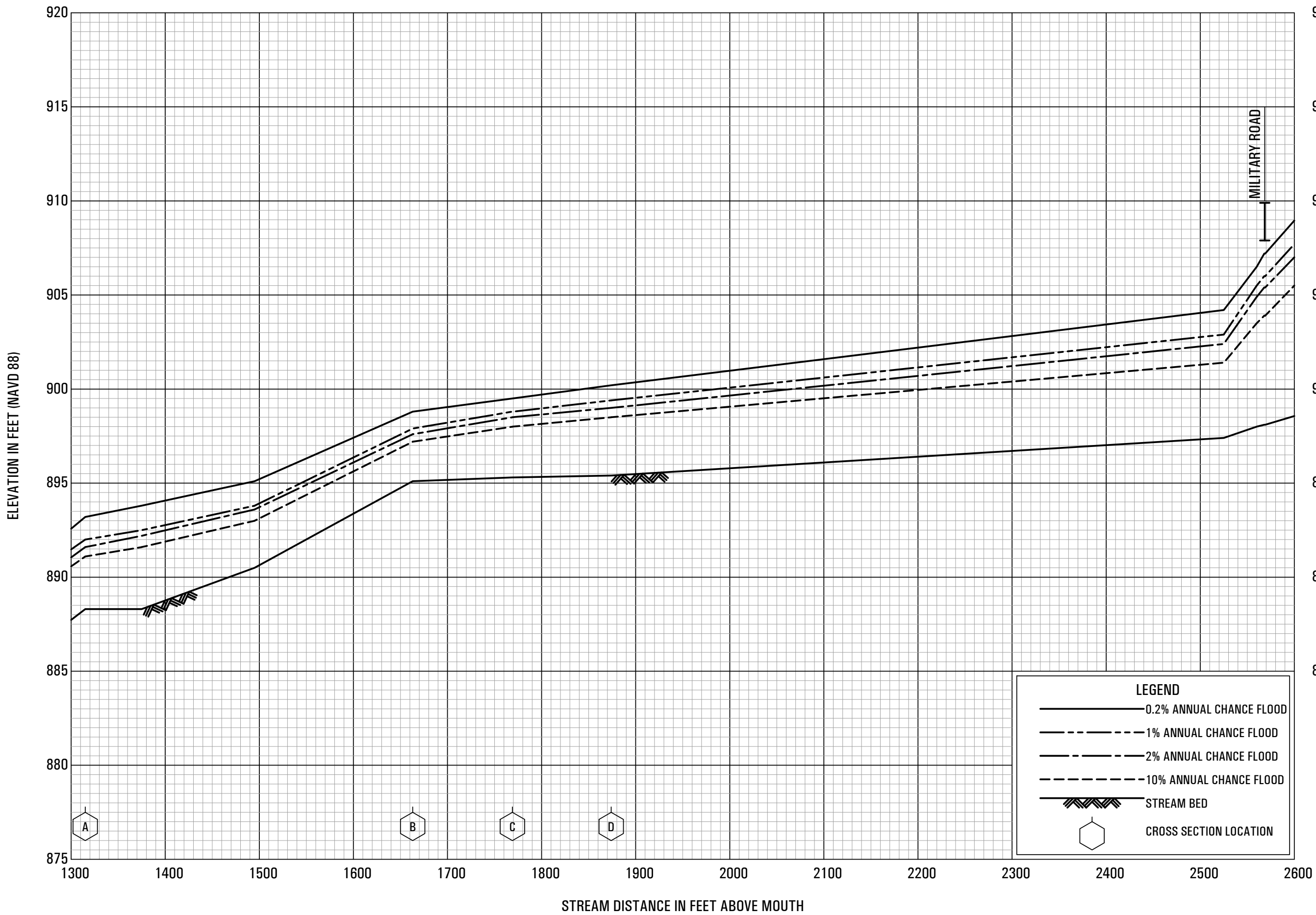
FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS



FLOOD PROFILES
 ENCHANTED VALLEY CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
 DANE COUNTY, WI
 AND INCORPORATED AREAS

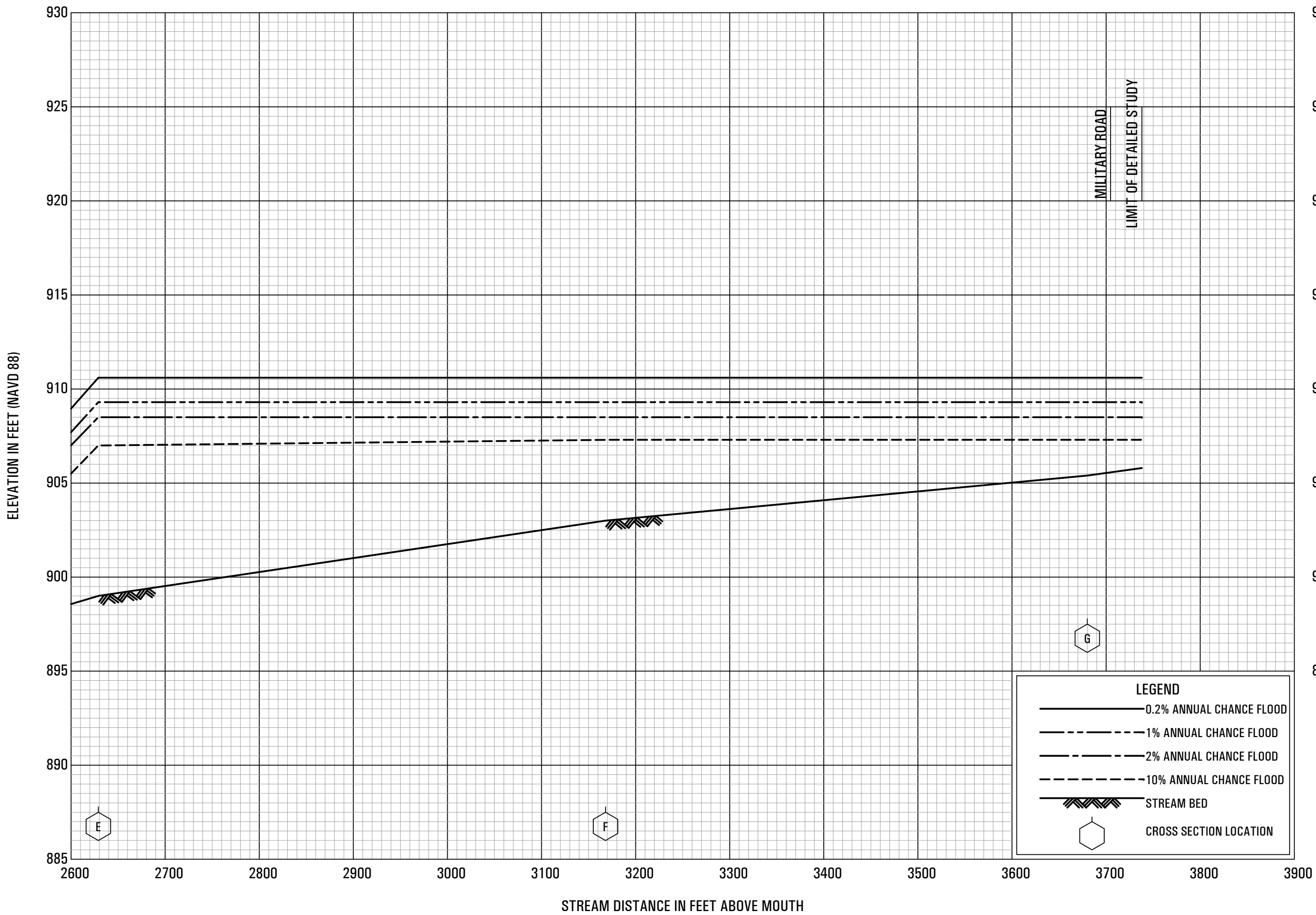


FLOOD PROFILES

ENCHANTED VALLEY CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS

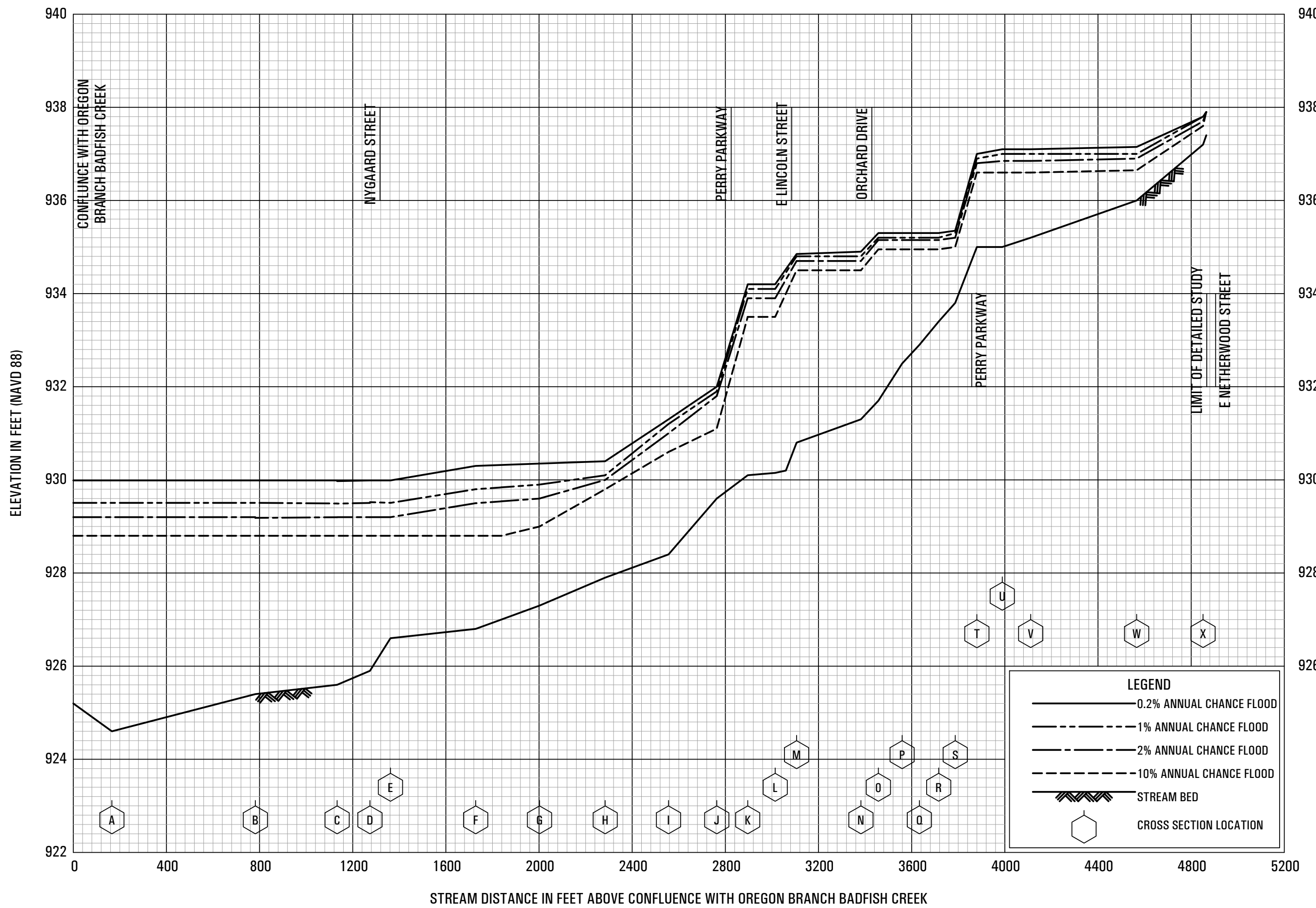


FLOOD PROFILES

ENCHANTED VALLEY CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS

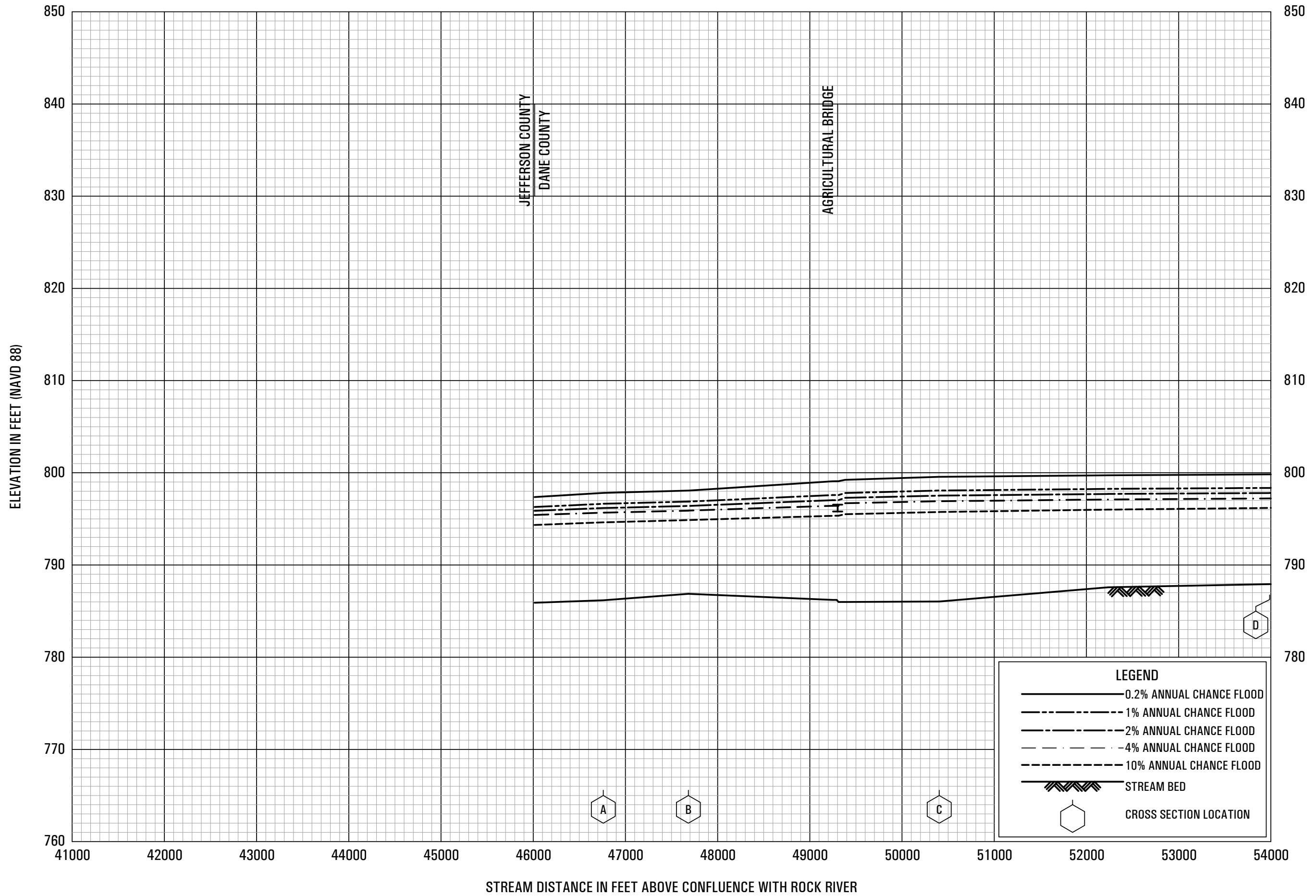


FLOOD PROFILES

GREENWAY

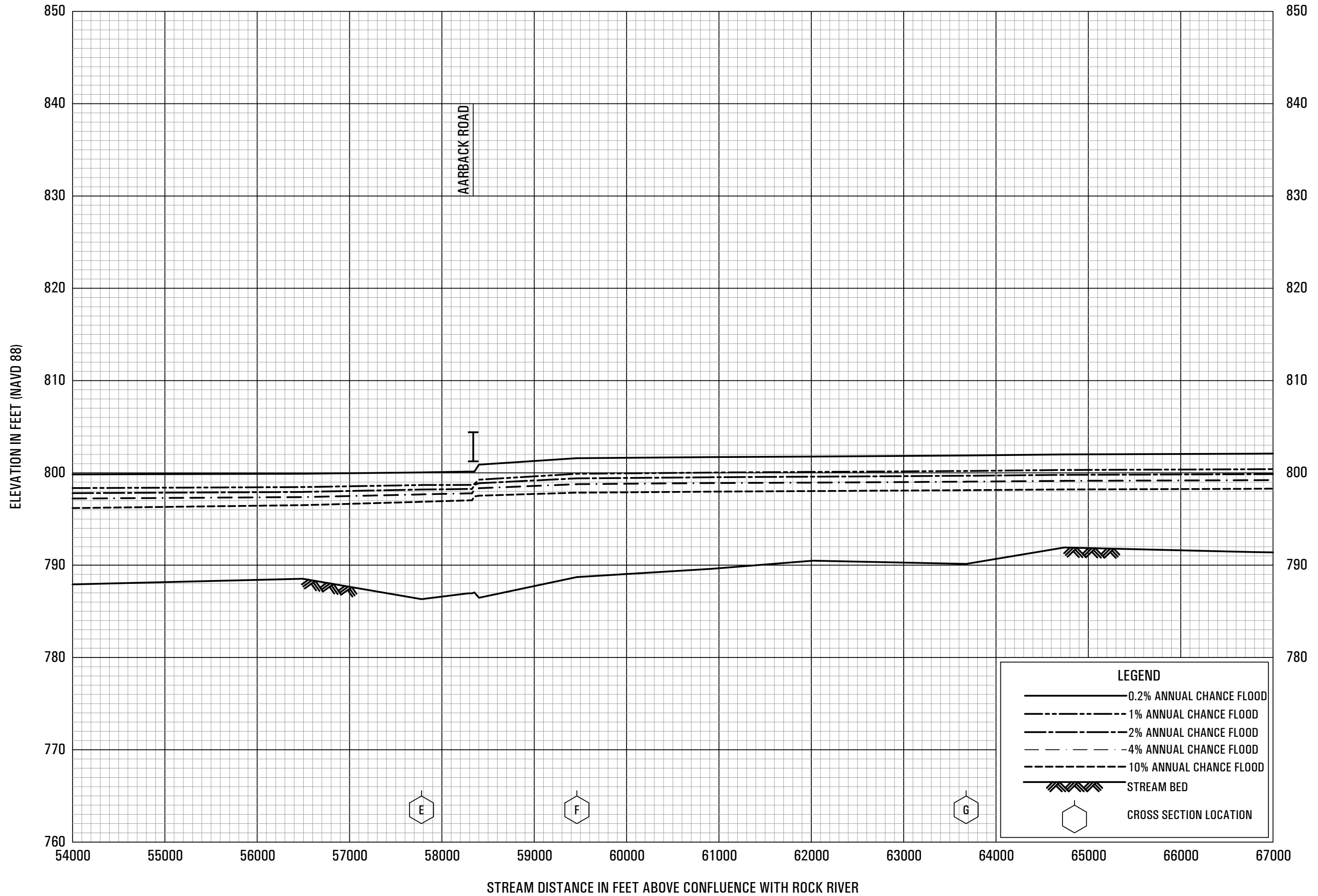
FEDERAL EMERGENCY MANAGEMENT AGENCY

**DANE COUNTY, WI
AND INCORPORATED AREAS**



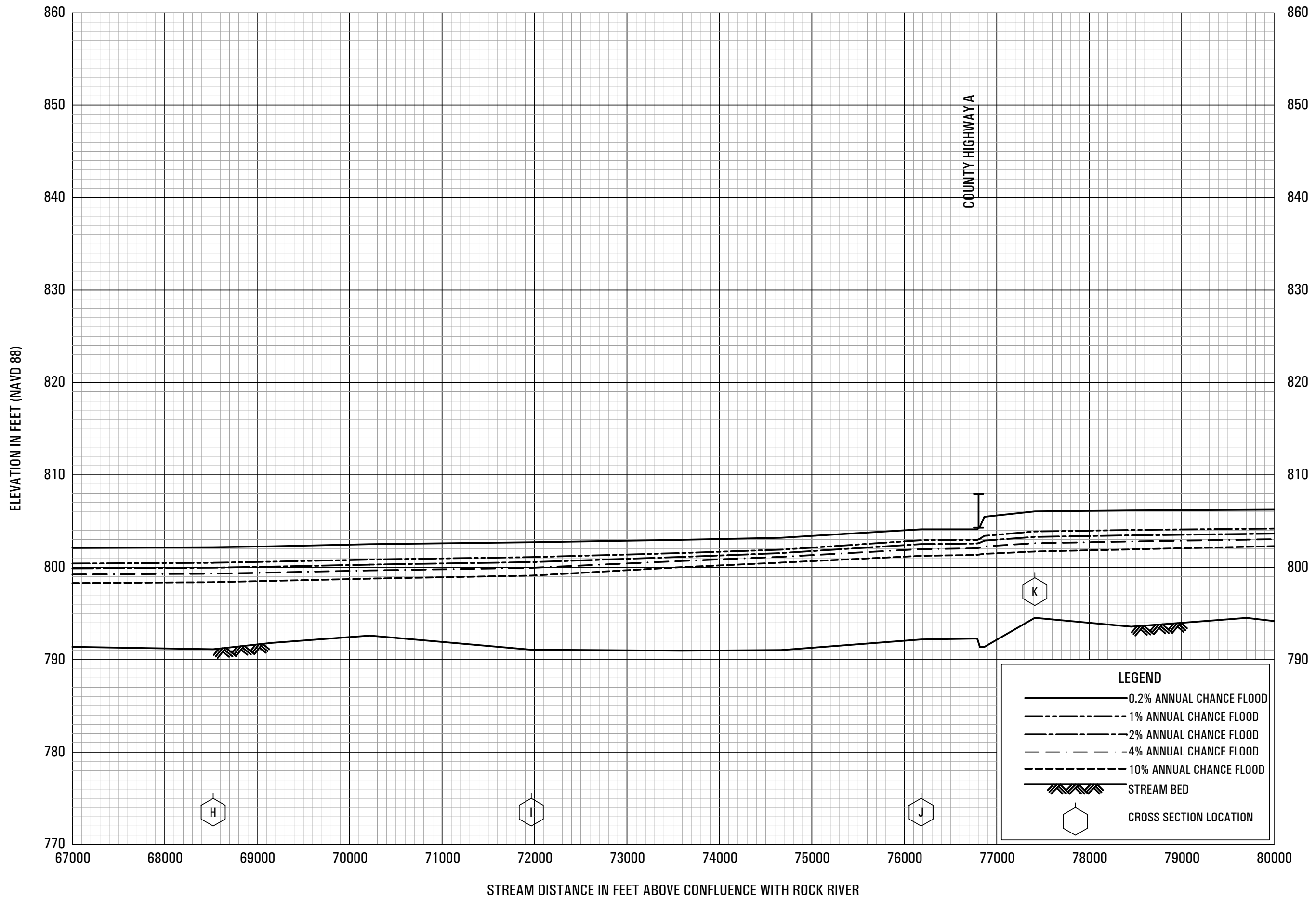
FLOOD PROFILES
KOSHKONONG CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
AND INCORPORATED AREAS



FLOOD PROFILES
KOSHKONONG CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
AND INCORPORATED AREAS

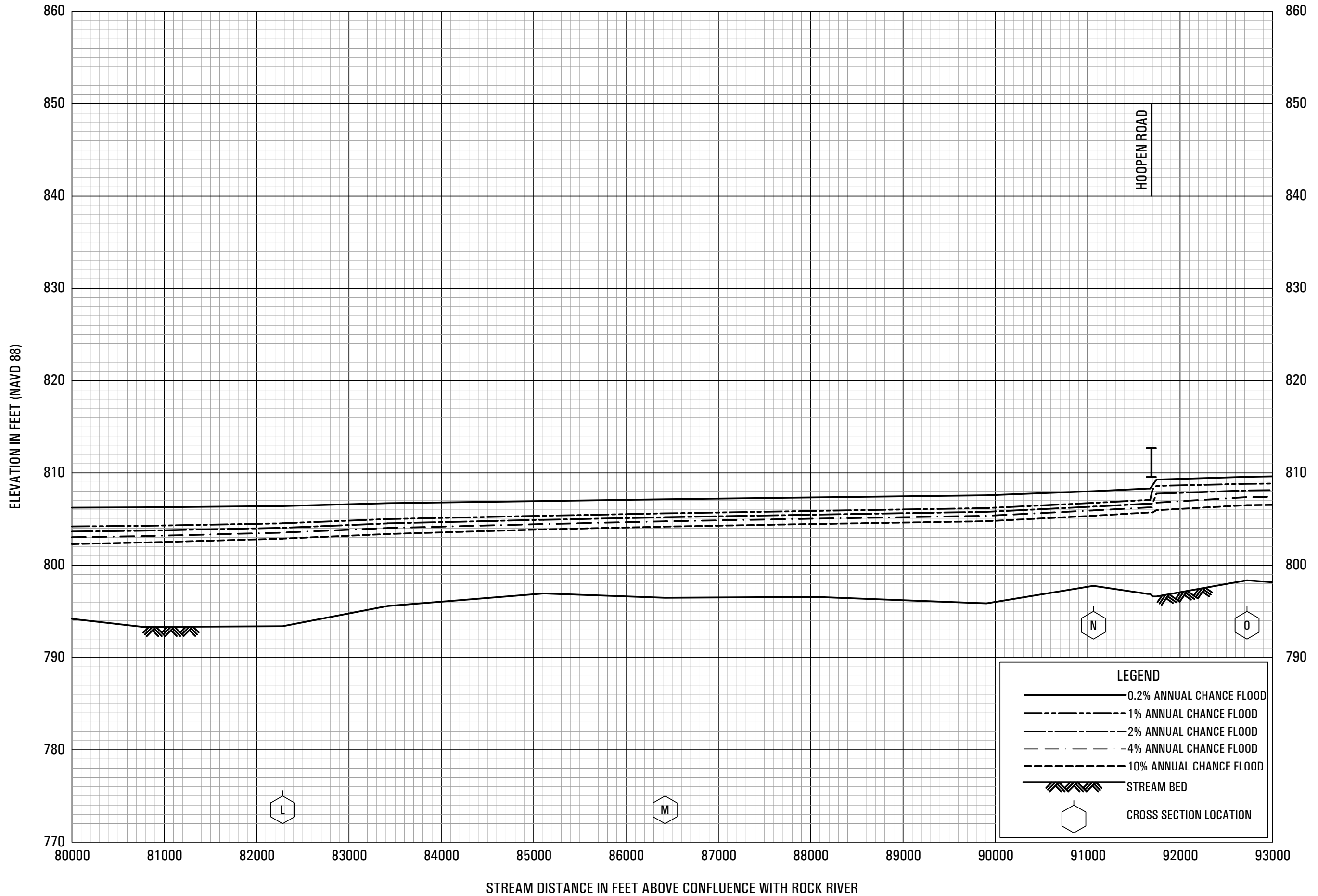


FLOOD PROFILES

KOSHKONONG CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS

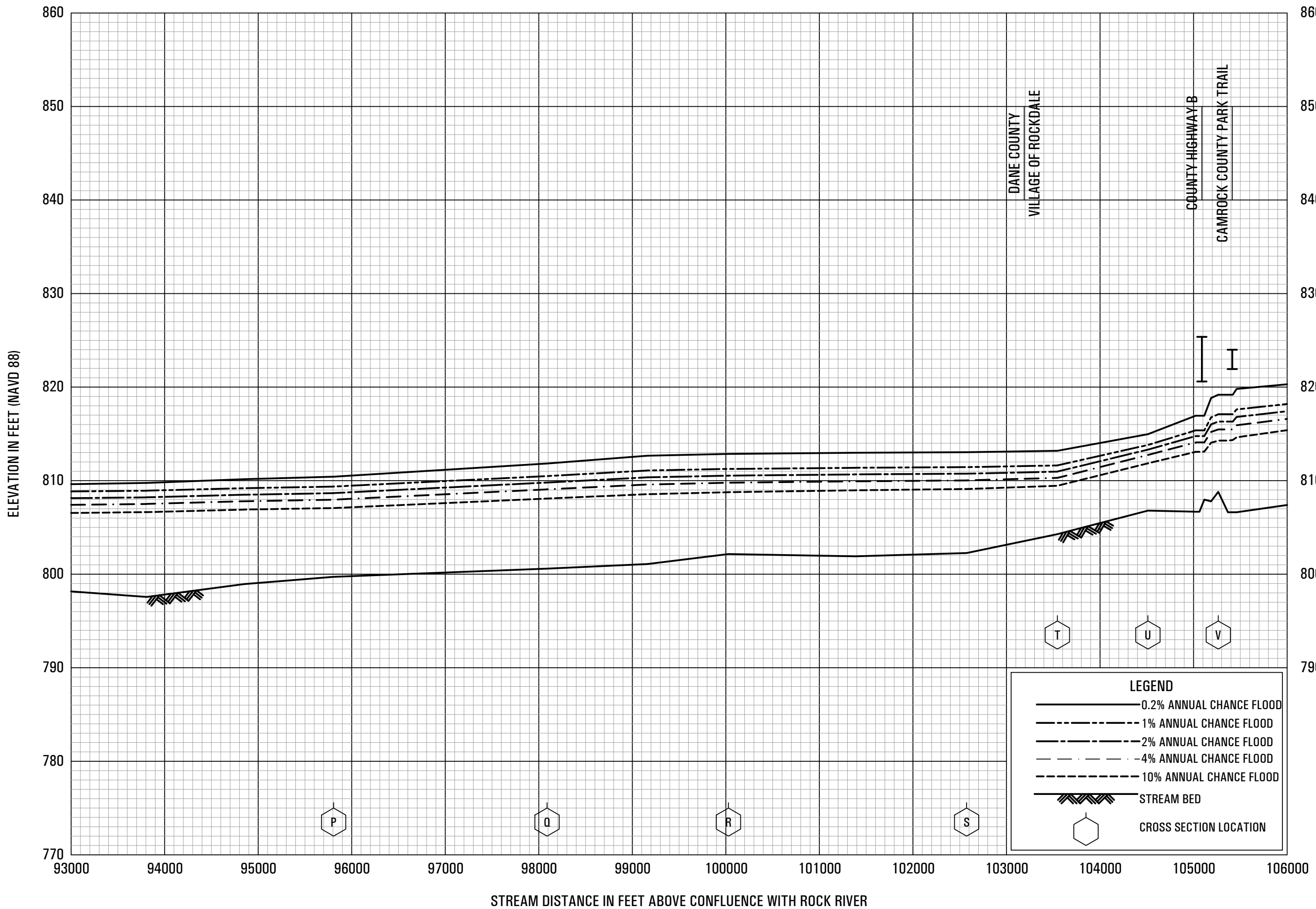


FLOOD PROFILES

KOSHKONONG CREEK

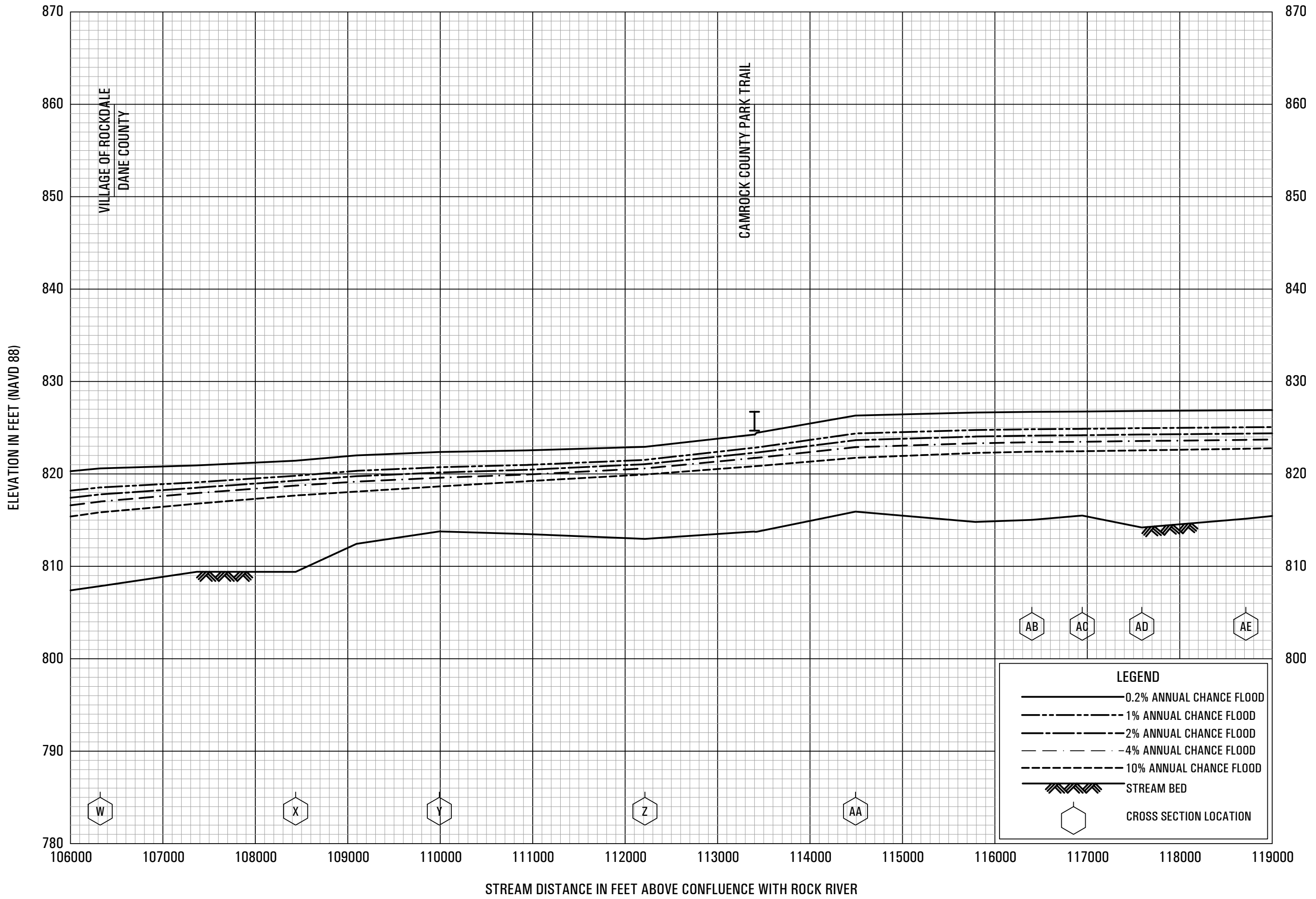
FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS



FLOOD PROFILES
KOSHKONONG CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
AND INCORPORATED AREAS

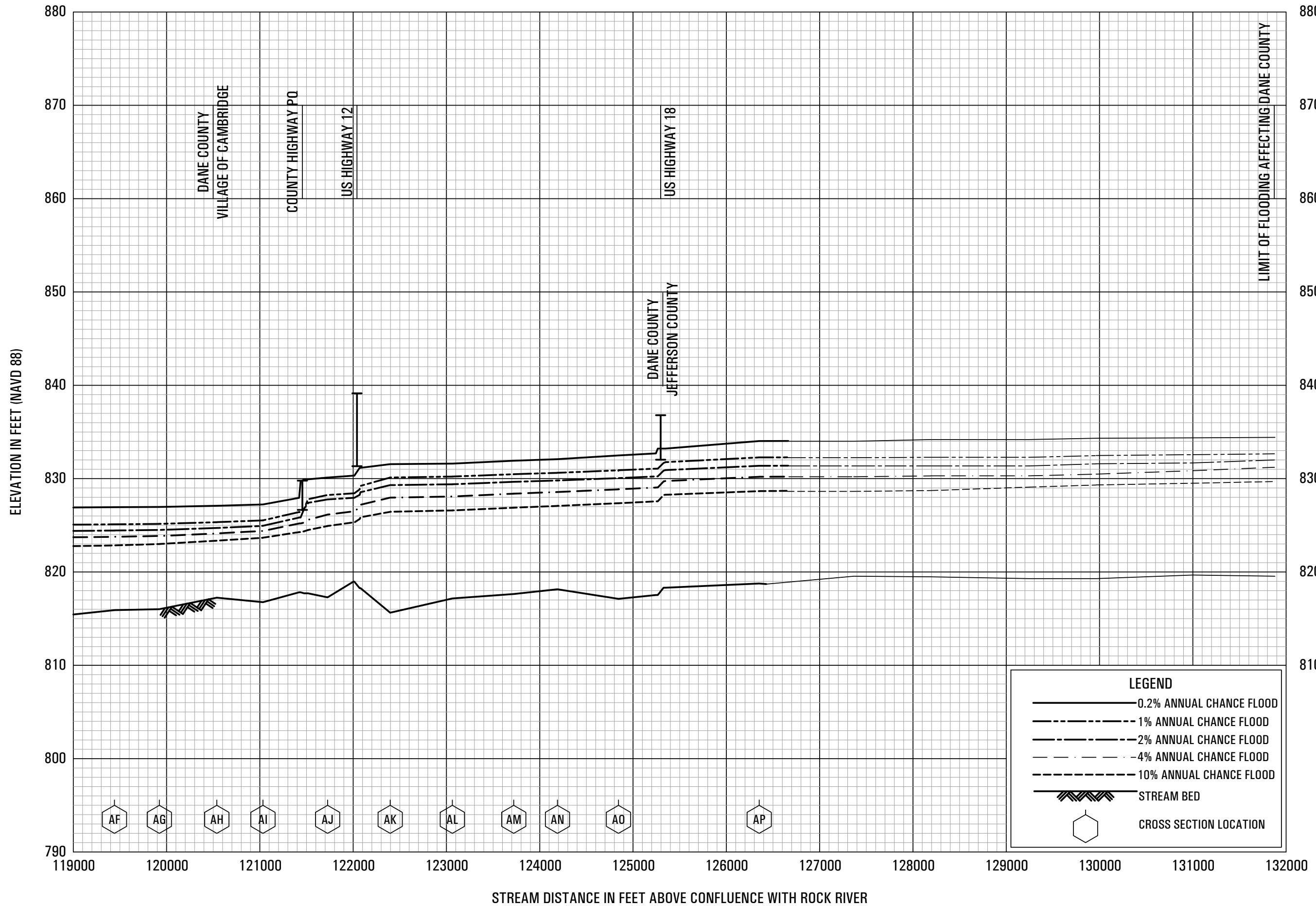


FLOOD PROFILES

KOSHKONONG CREEK

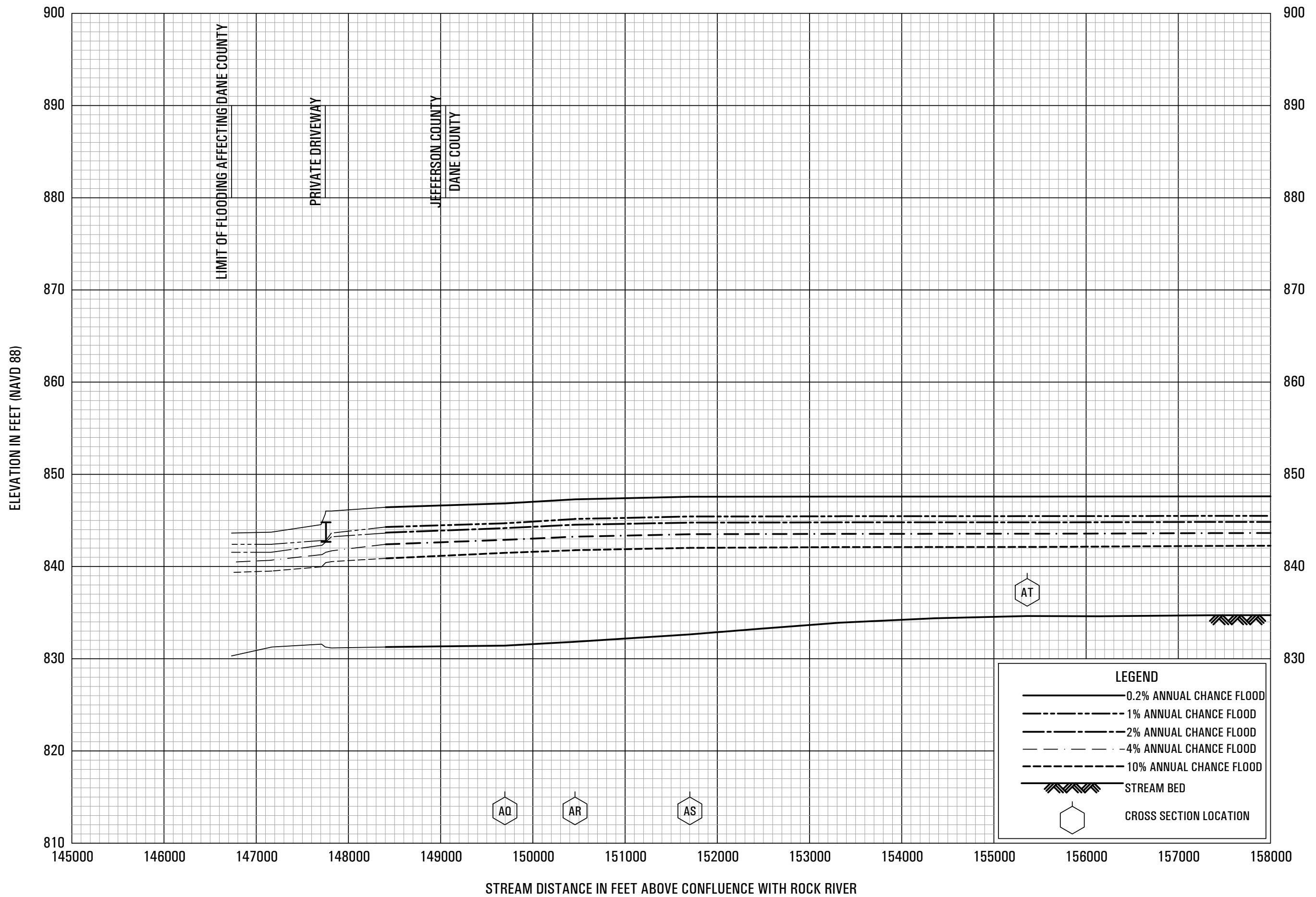
FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS



FLOOD PROFILES
KOSHKONONG CREEK

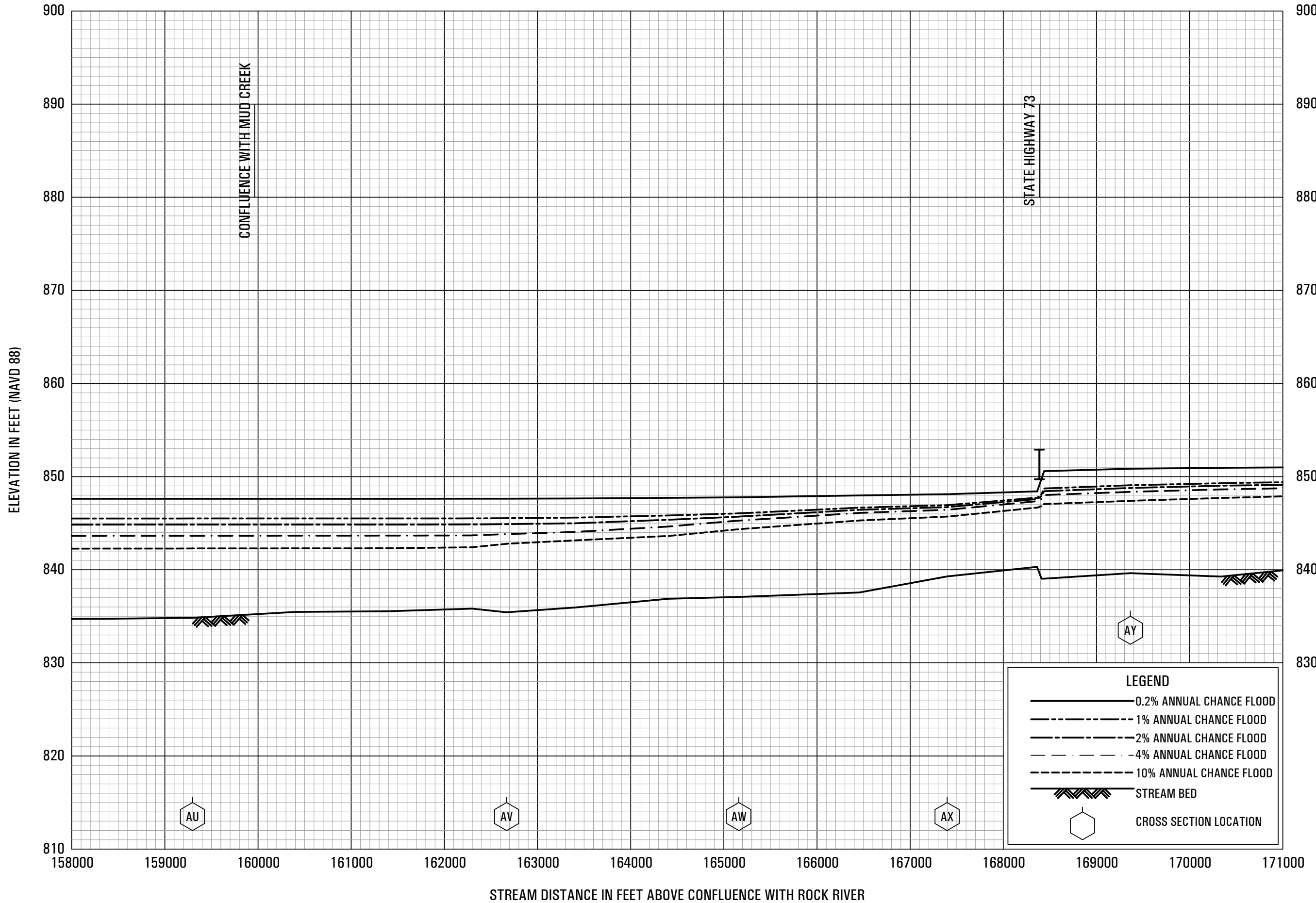
FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
AND INCORPORATED AREAS



FLOOD PROFILES
KOSHKONG CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
AND INCORPORATED AREAS

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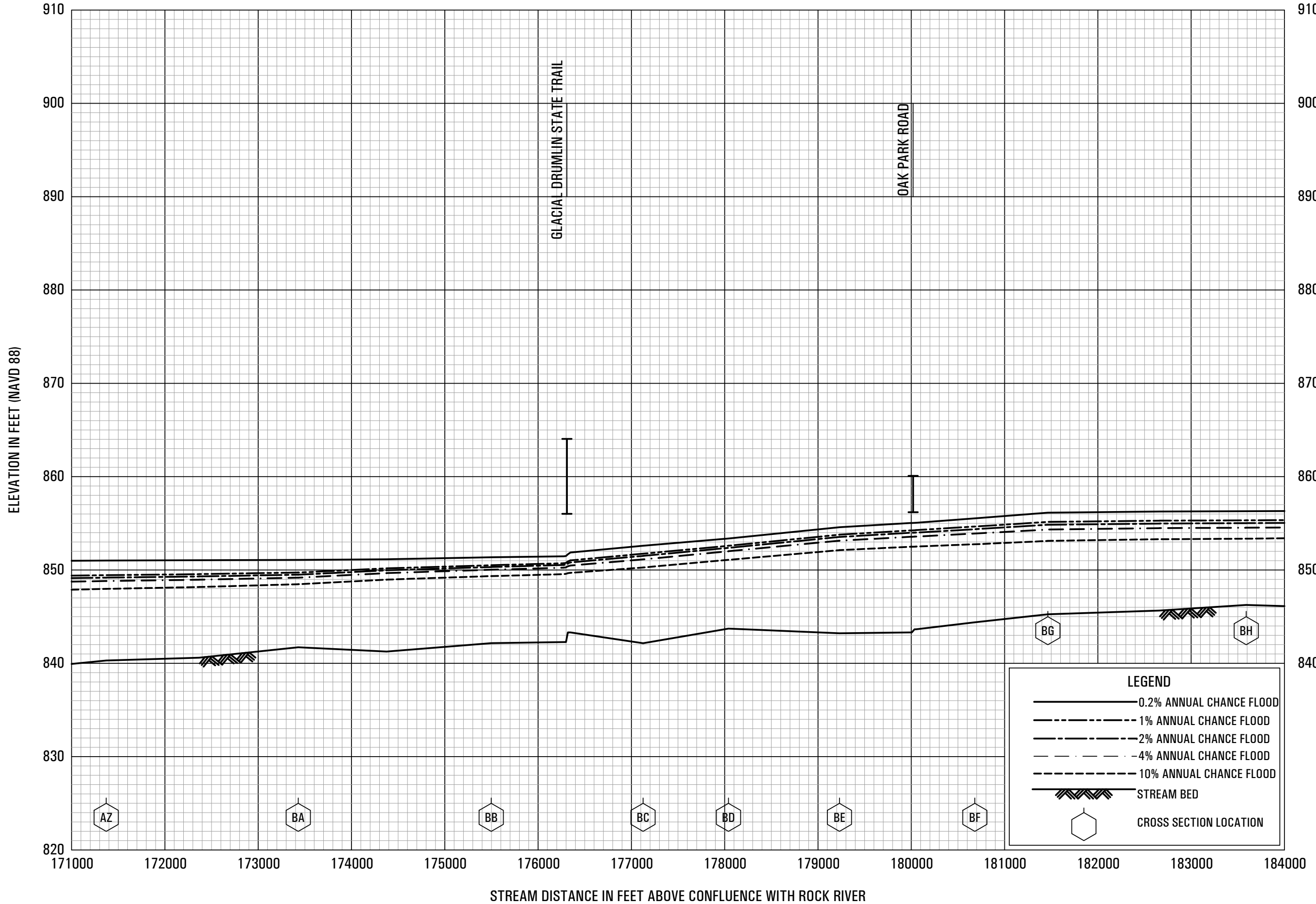


FLOOD PROFILES

KOSHKONONG CREEK

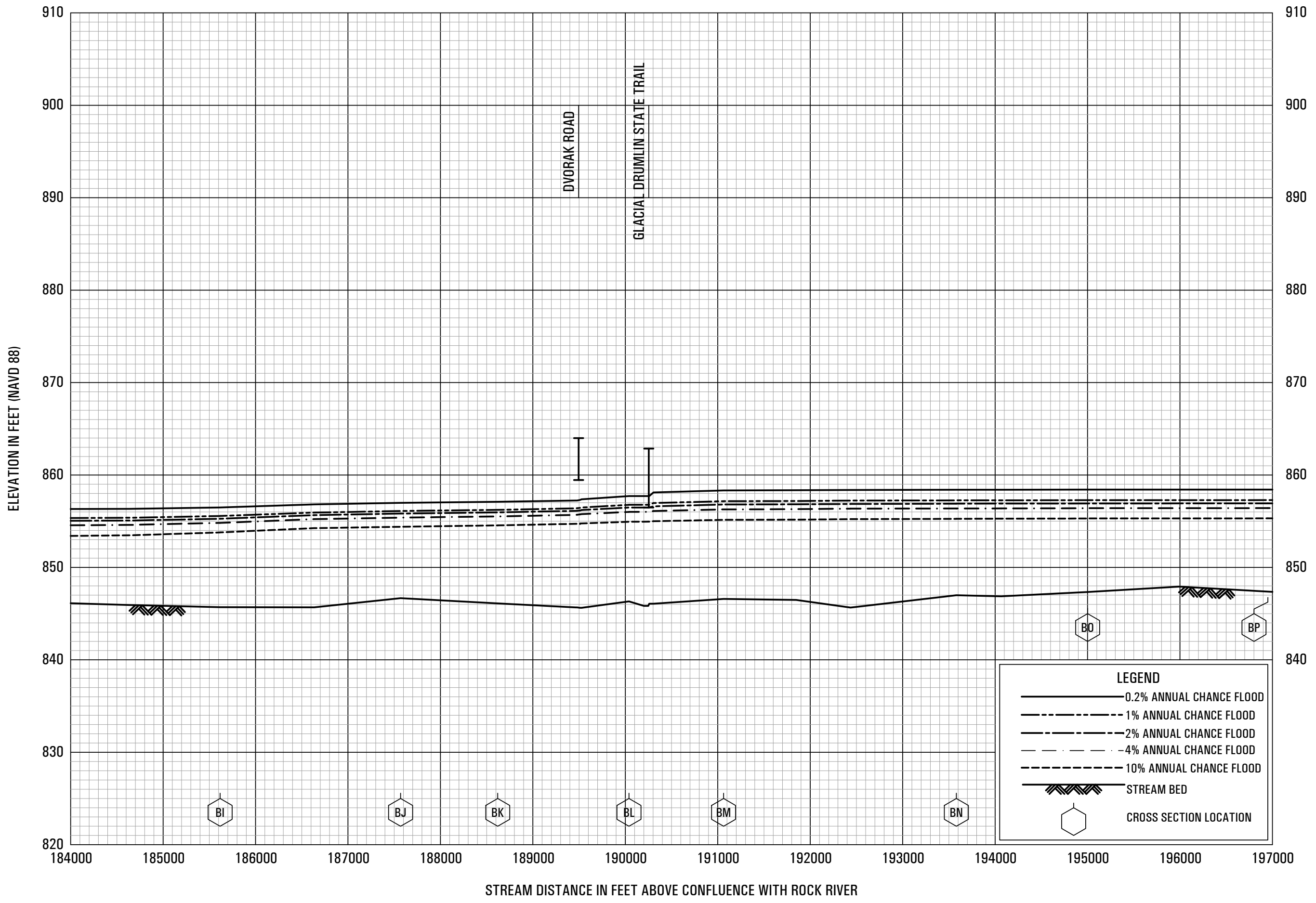
FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS



FLOOD PROFILES
KOSHKONONG CREEK

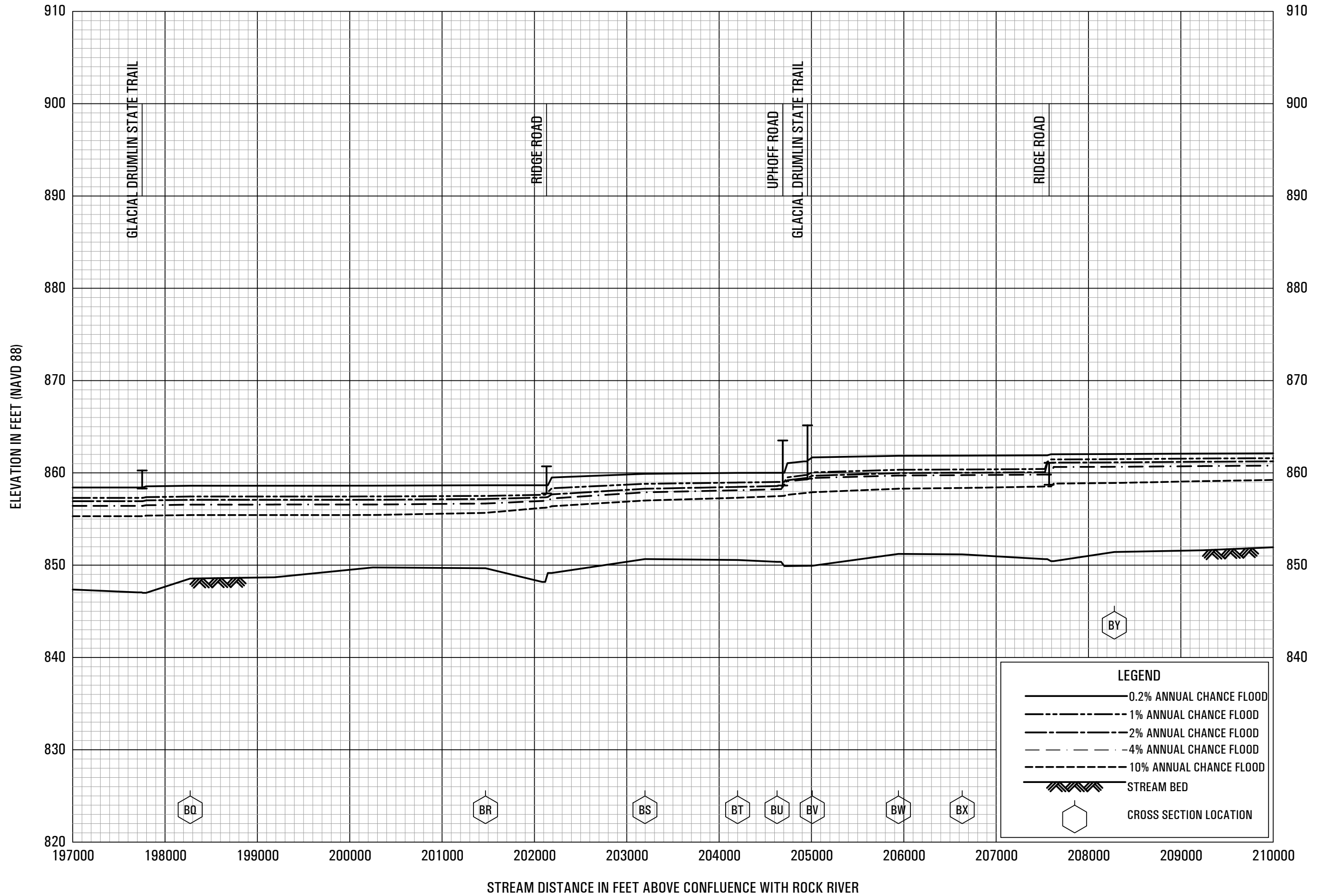
FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
AND INCORPORATED AREAS



FLOOD PROFILES
KOSHKONONG CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
AND INCORPORATED AREAS

49P

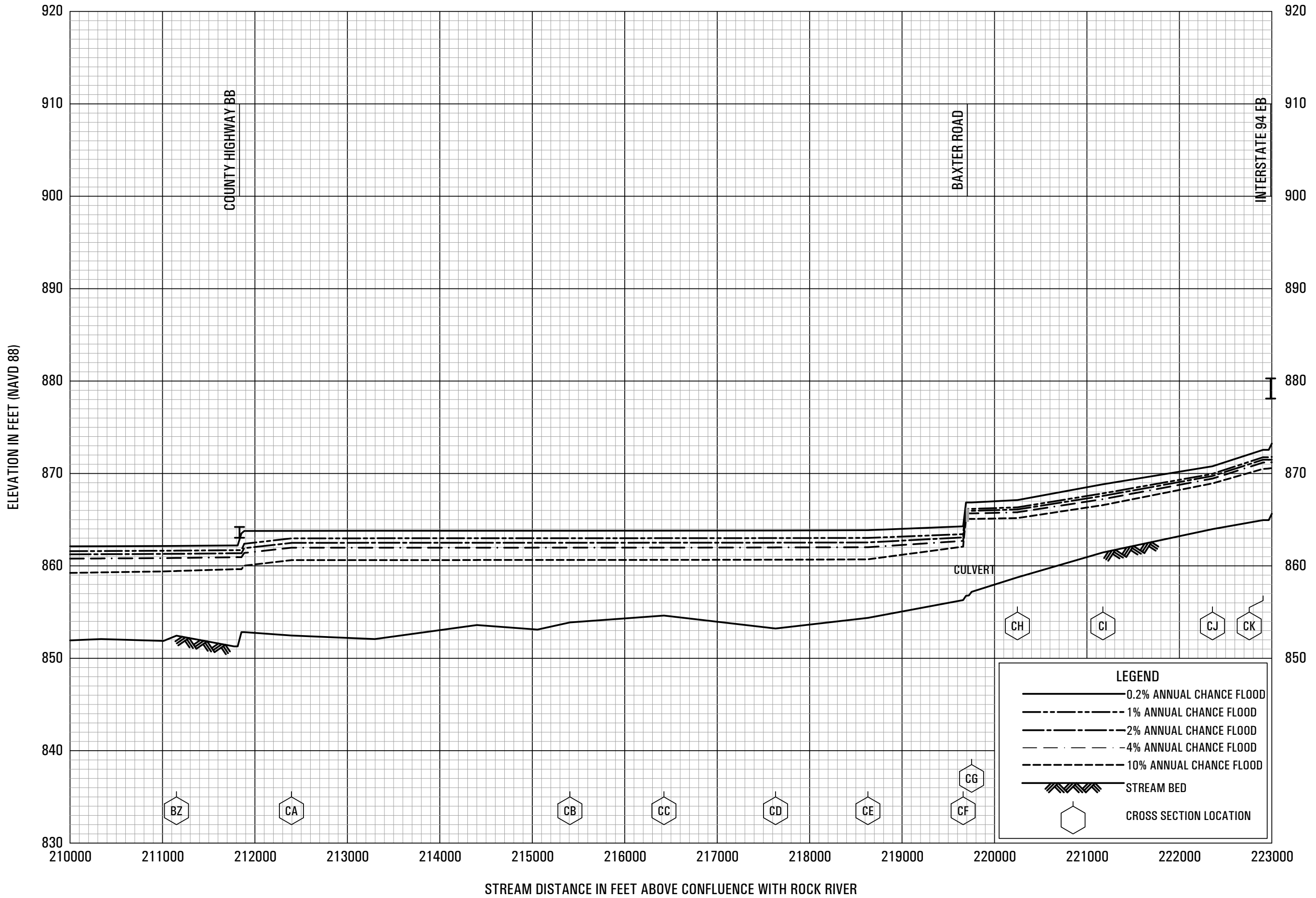


FLOOD PROFILES

KOSHKONONG CREEK

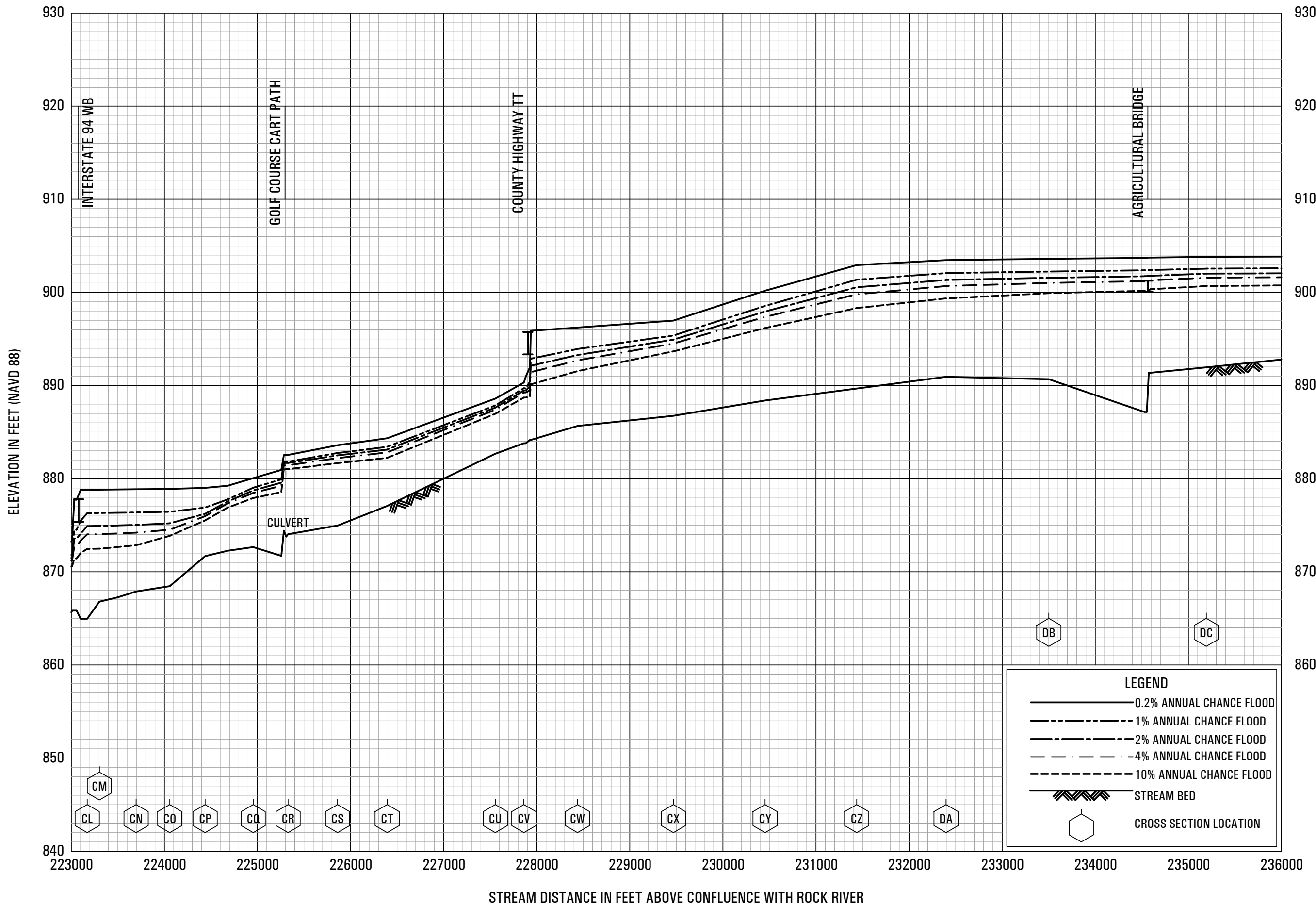
FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS



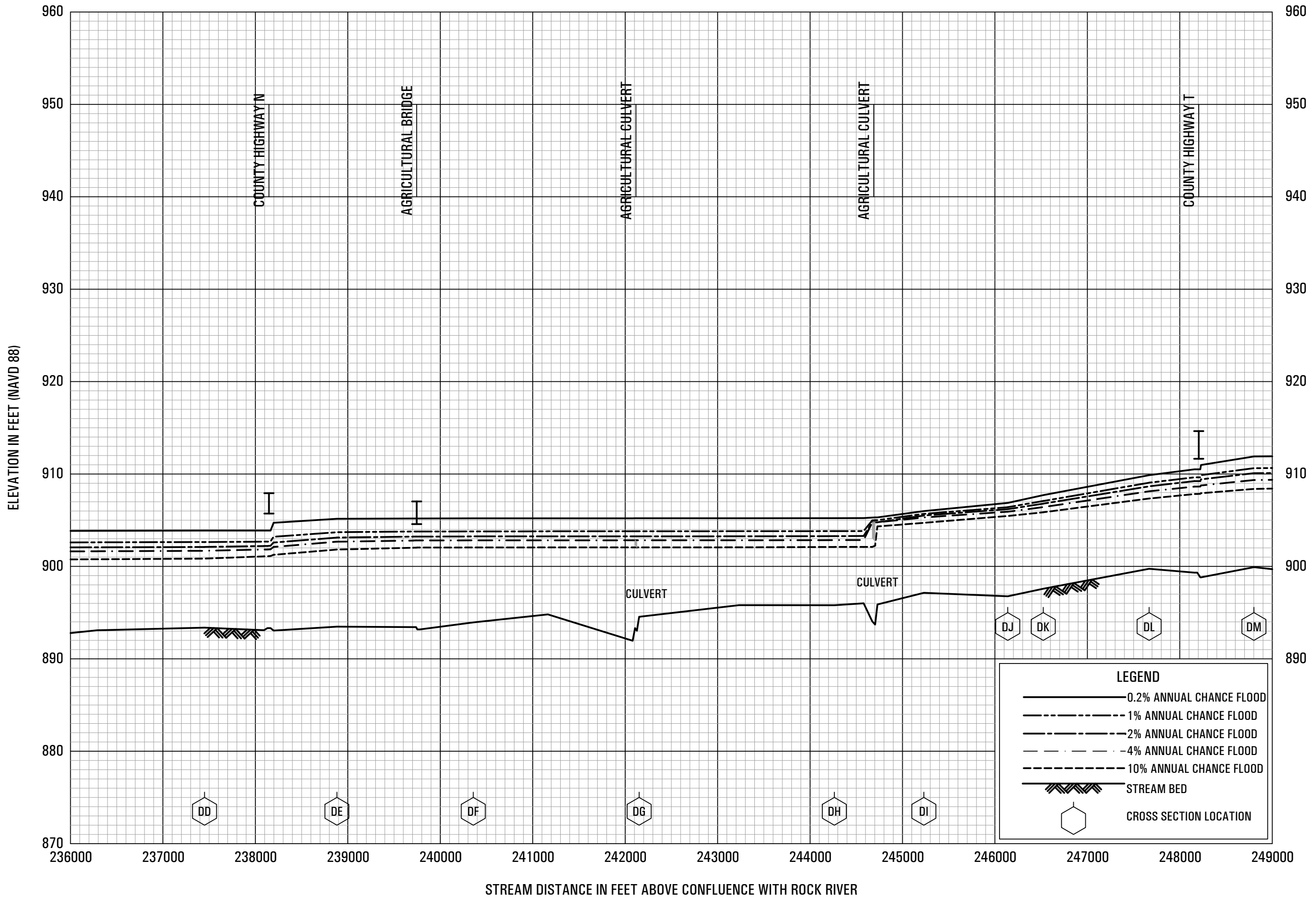
FLOOD PROFILES
KOSHKONONG CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
AND INCORPORATED AREAS



FLOOD PROFILES
KOSHKONG CREEK

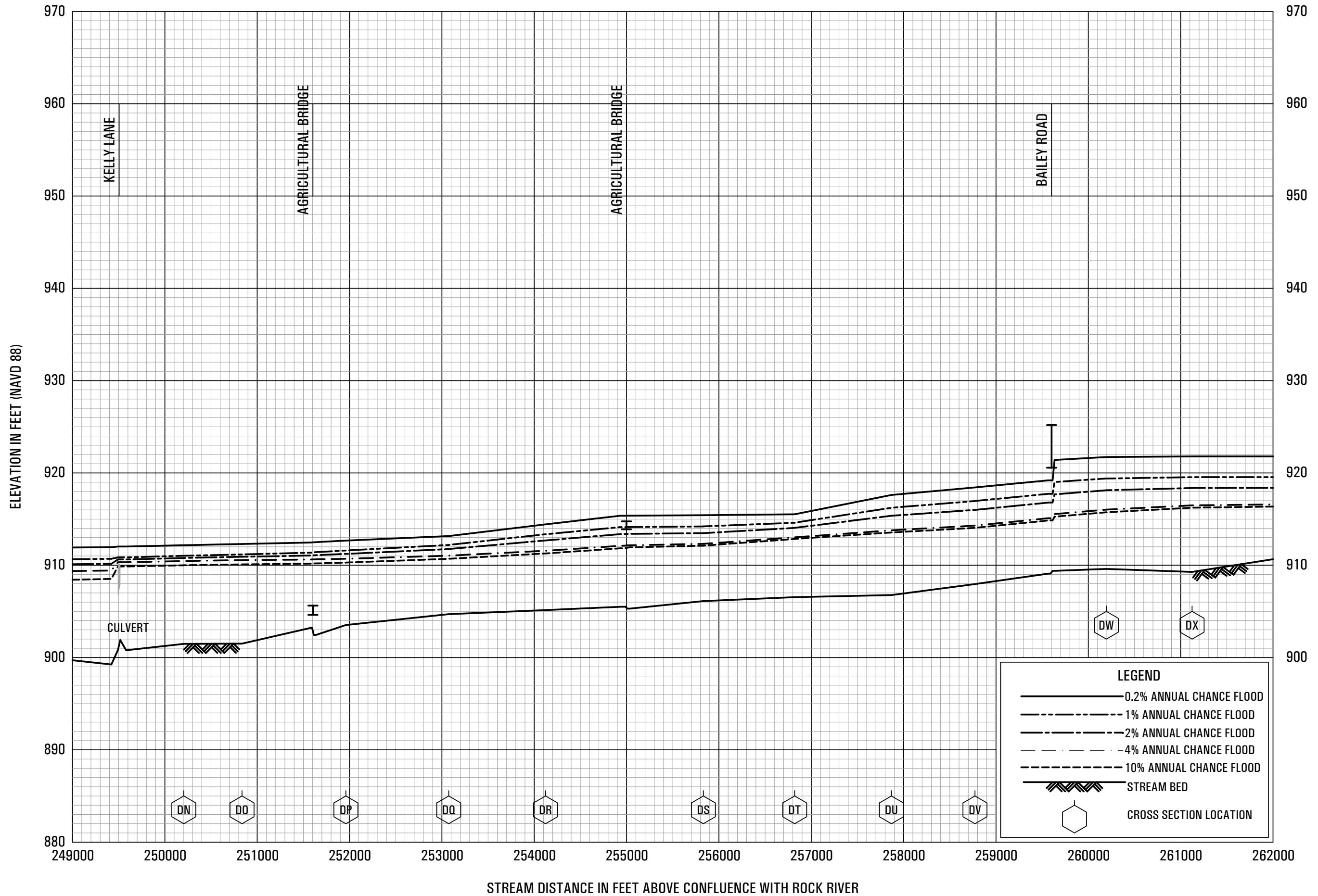
FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
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FLOOD PROFILES
KOSHKONONG CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
AND INCORPORATED AREAS

53P

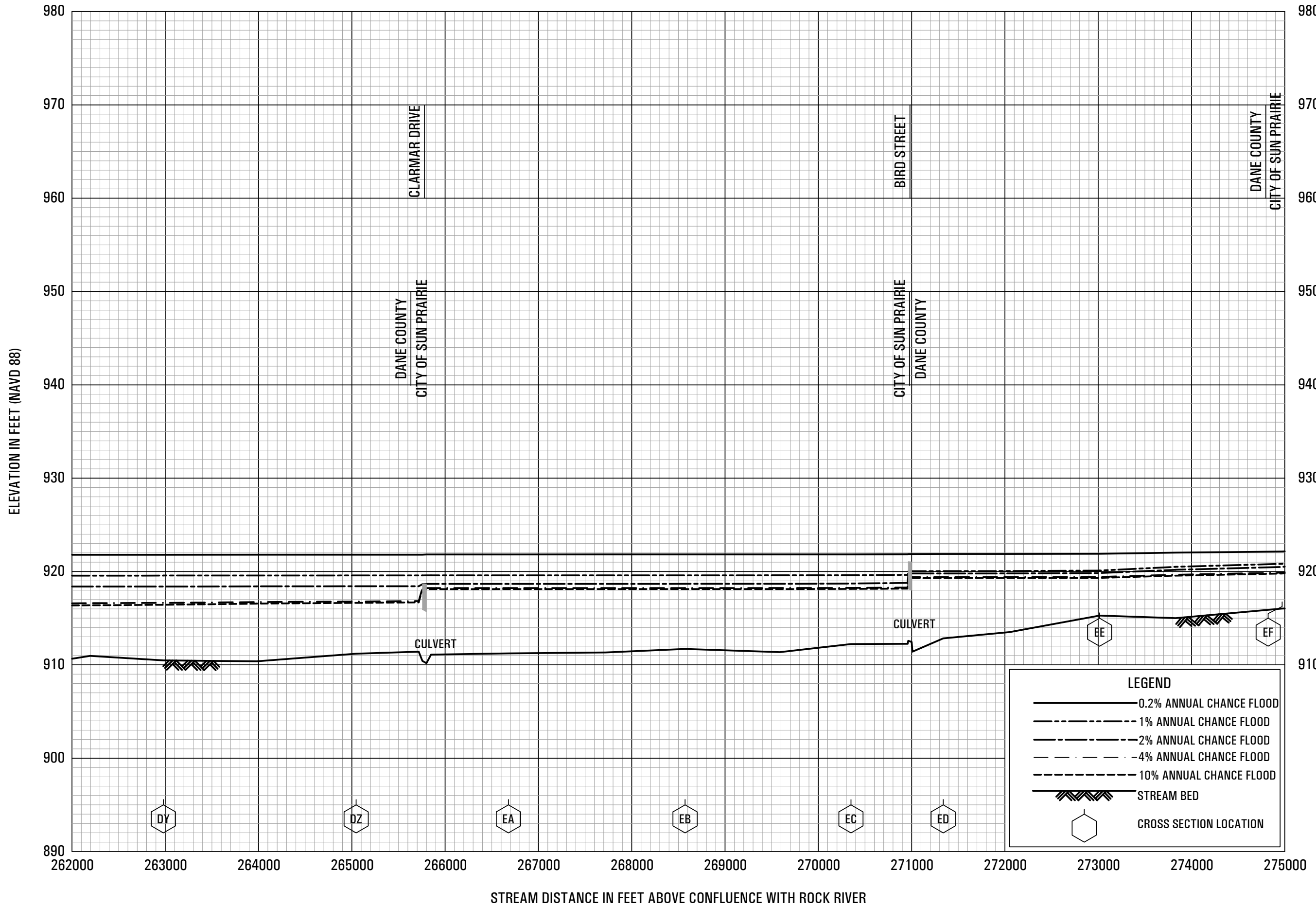


FLOOD PROFILES

KOSHKONONG CREEK

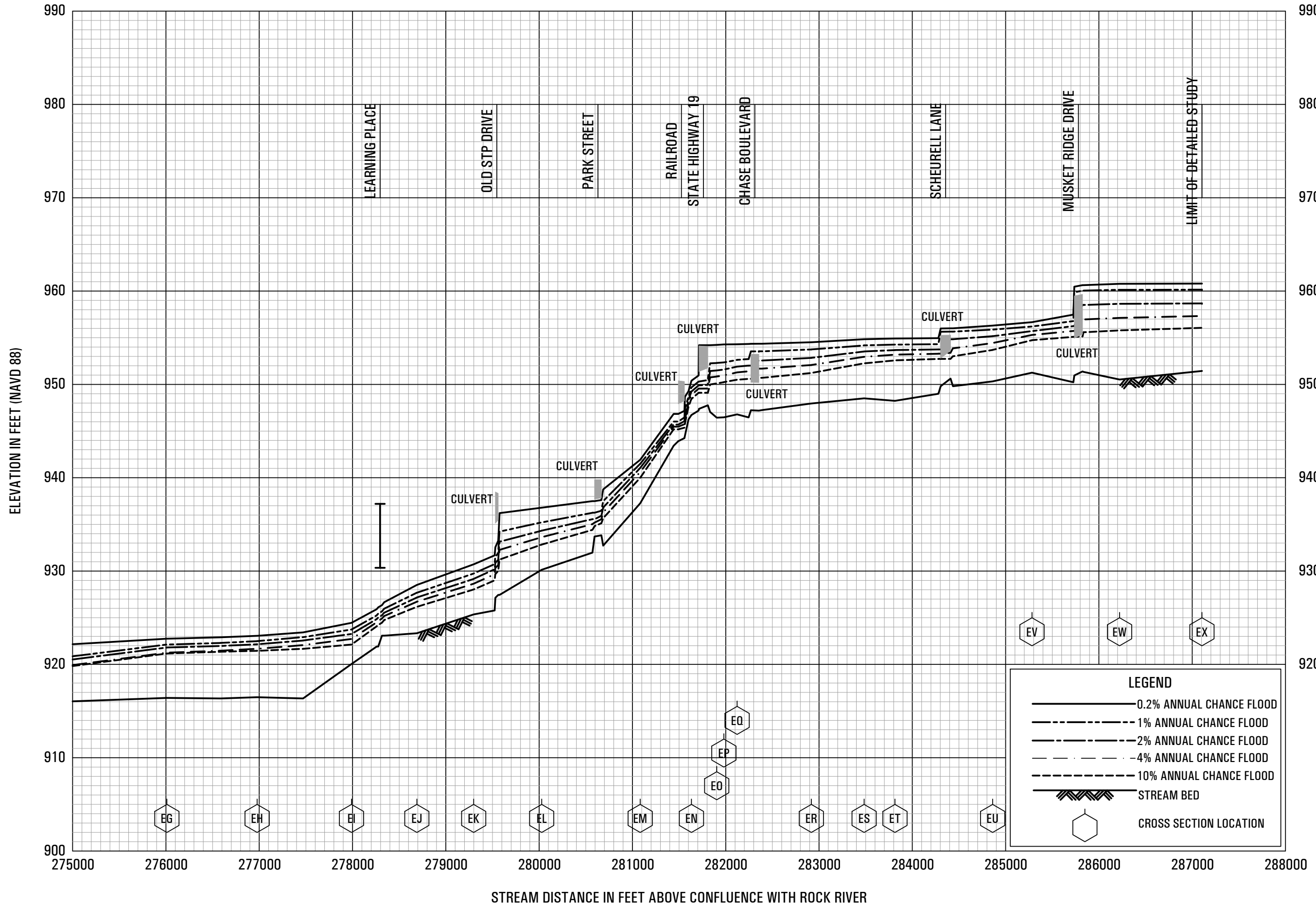
FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS



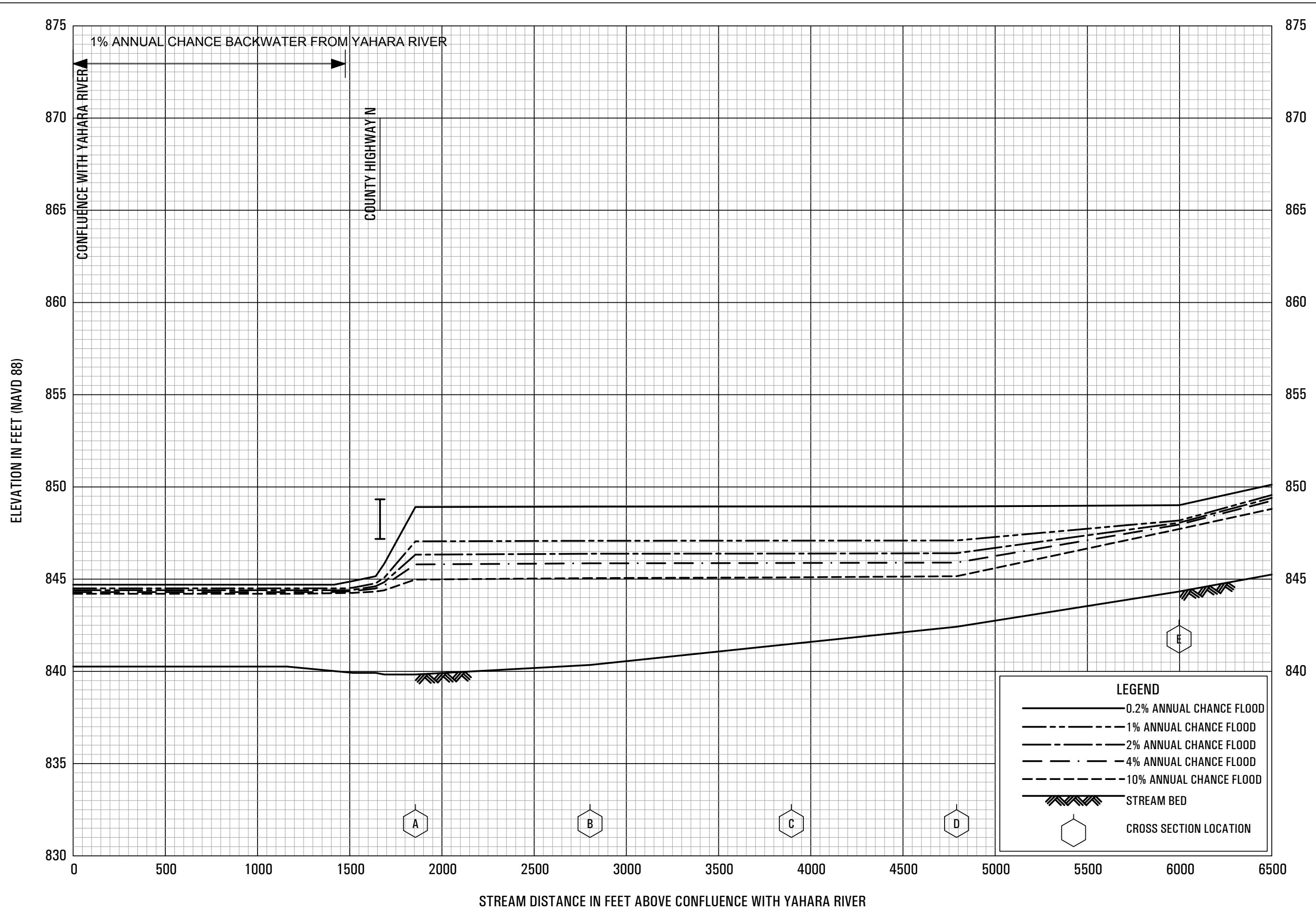
FLOOD PROFILES
KOSHKONONG CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
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FLOOD PROFILES
KOSHKONONG CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
AND INCORPORATED AREAS

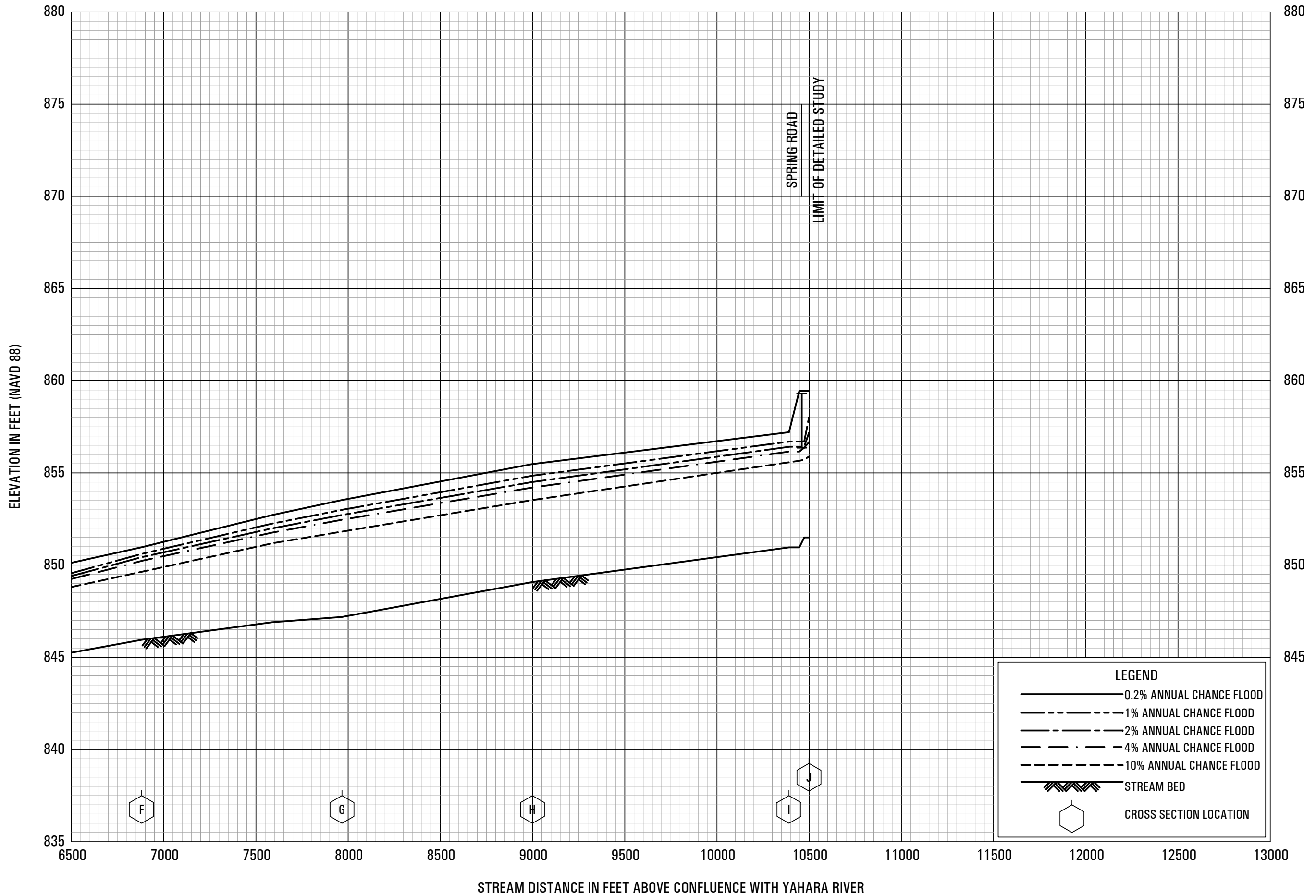


FLOOD PROFILES

LEUTENS CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
 AND INCORPORATED AREAS

57P

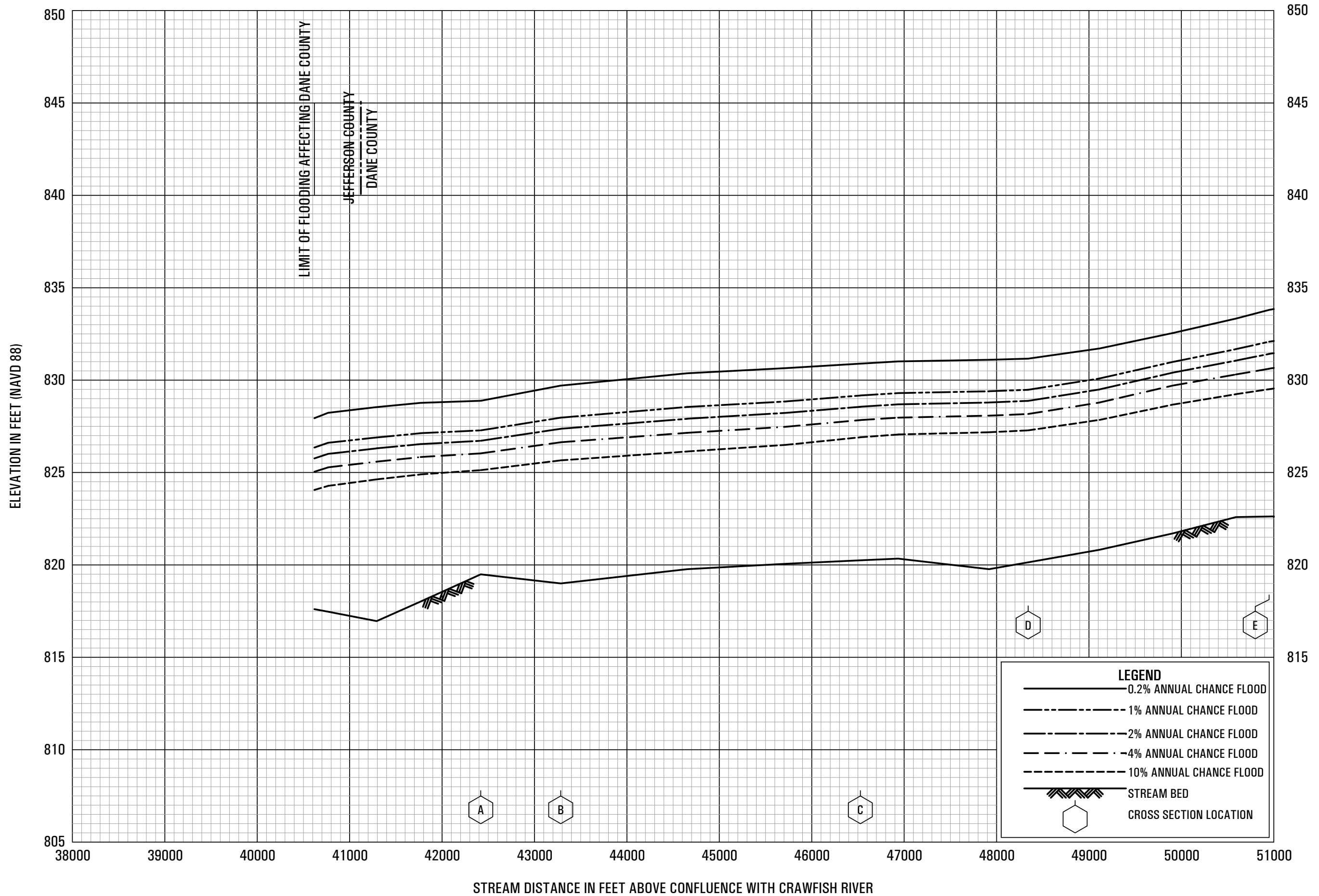


FLOOD PROFILES

LEUTENS CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS

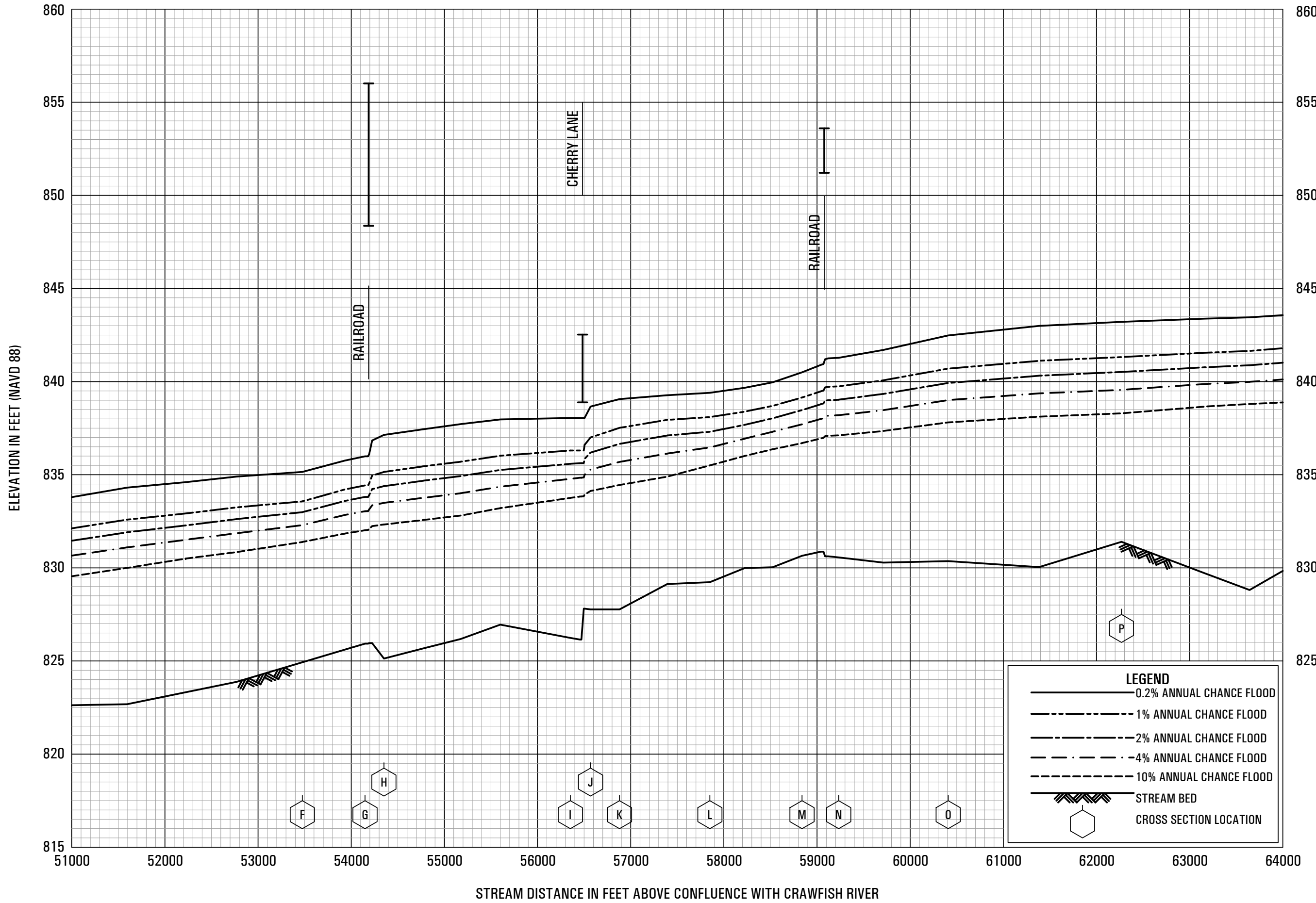


FLOOD PROFILES

MAUNESHA RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

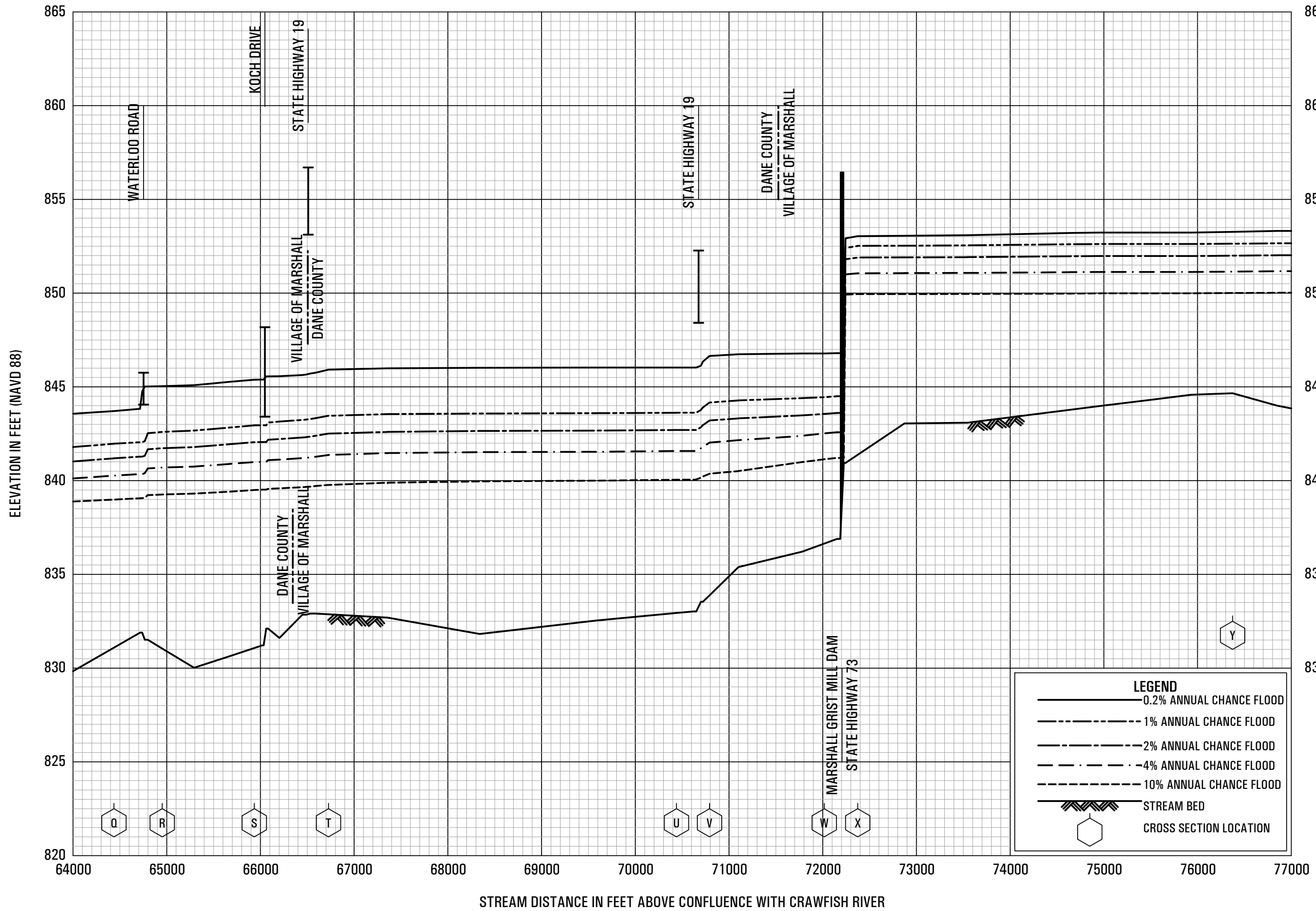
DANE COUNTY, WI
AND INCORPORATED AREAS



FLOOD PROFILES

MAUNESHA RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
 AND INCORPORATED AREAS

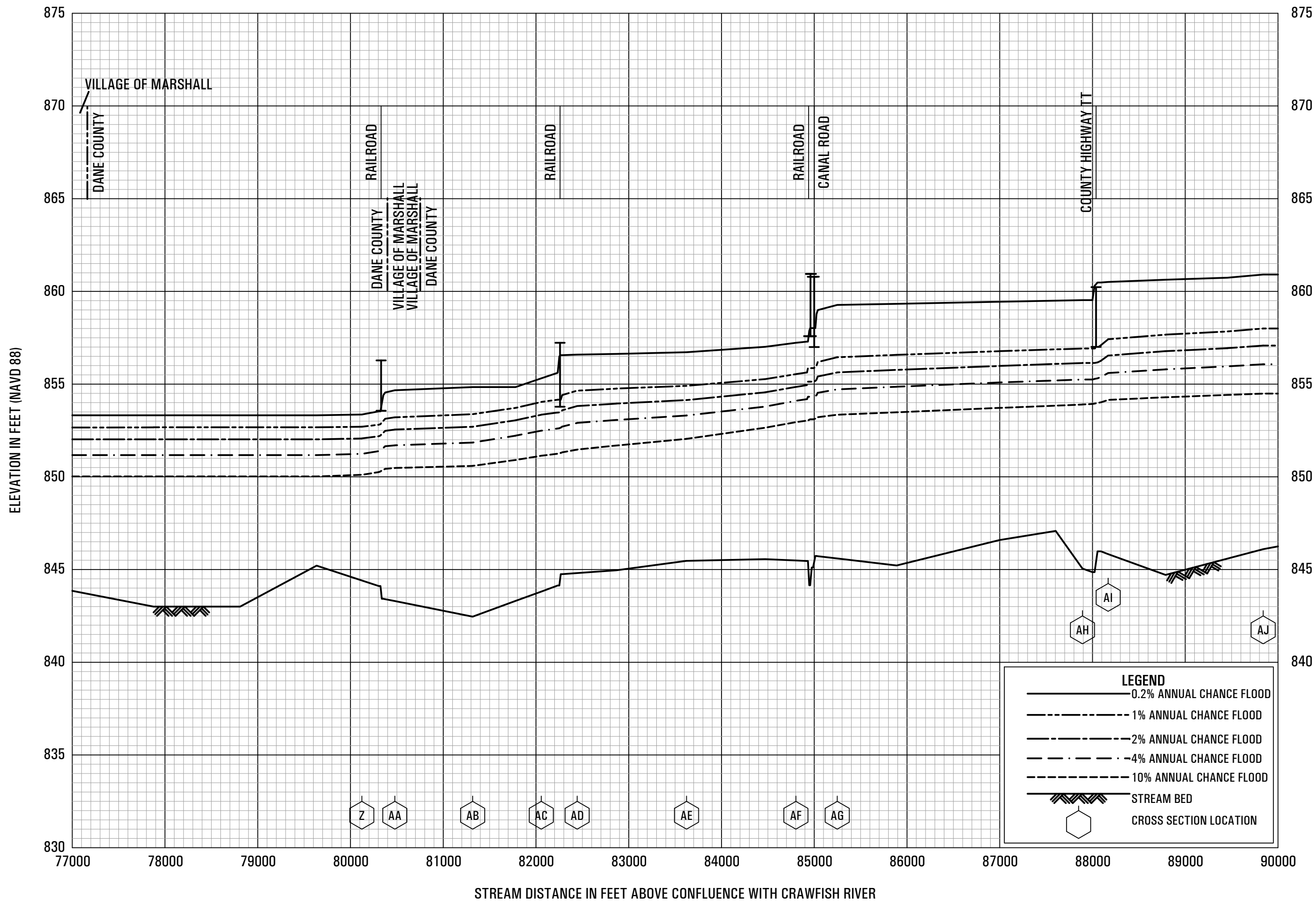


FLOOD PROFILES

MAUNESHA RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

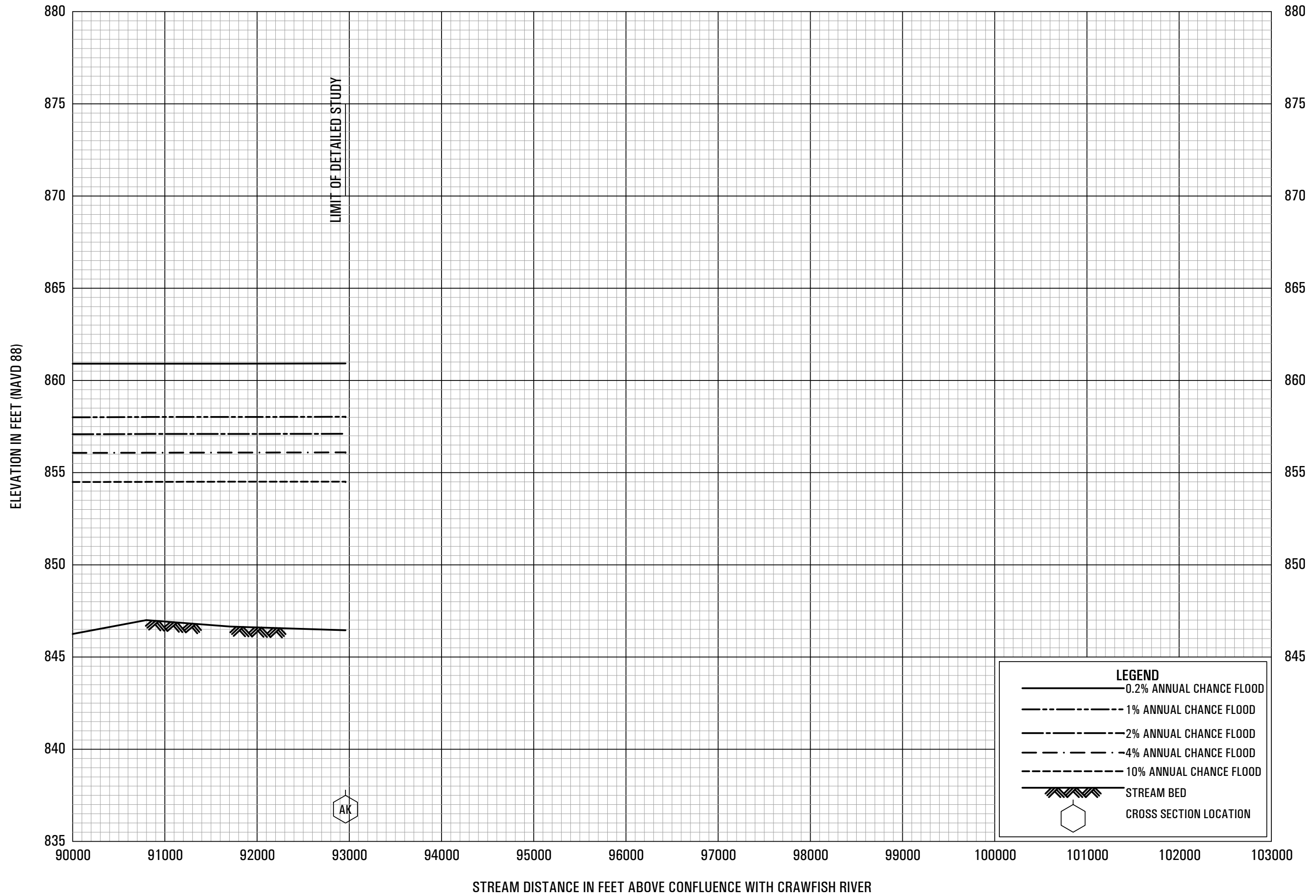
DANE COUNTY, WI
AND INCORPORATED AREAS



FLOOD PROFILES

MAUNESHA RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY
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 AND INCORPORATED AREAS

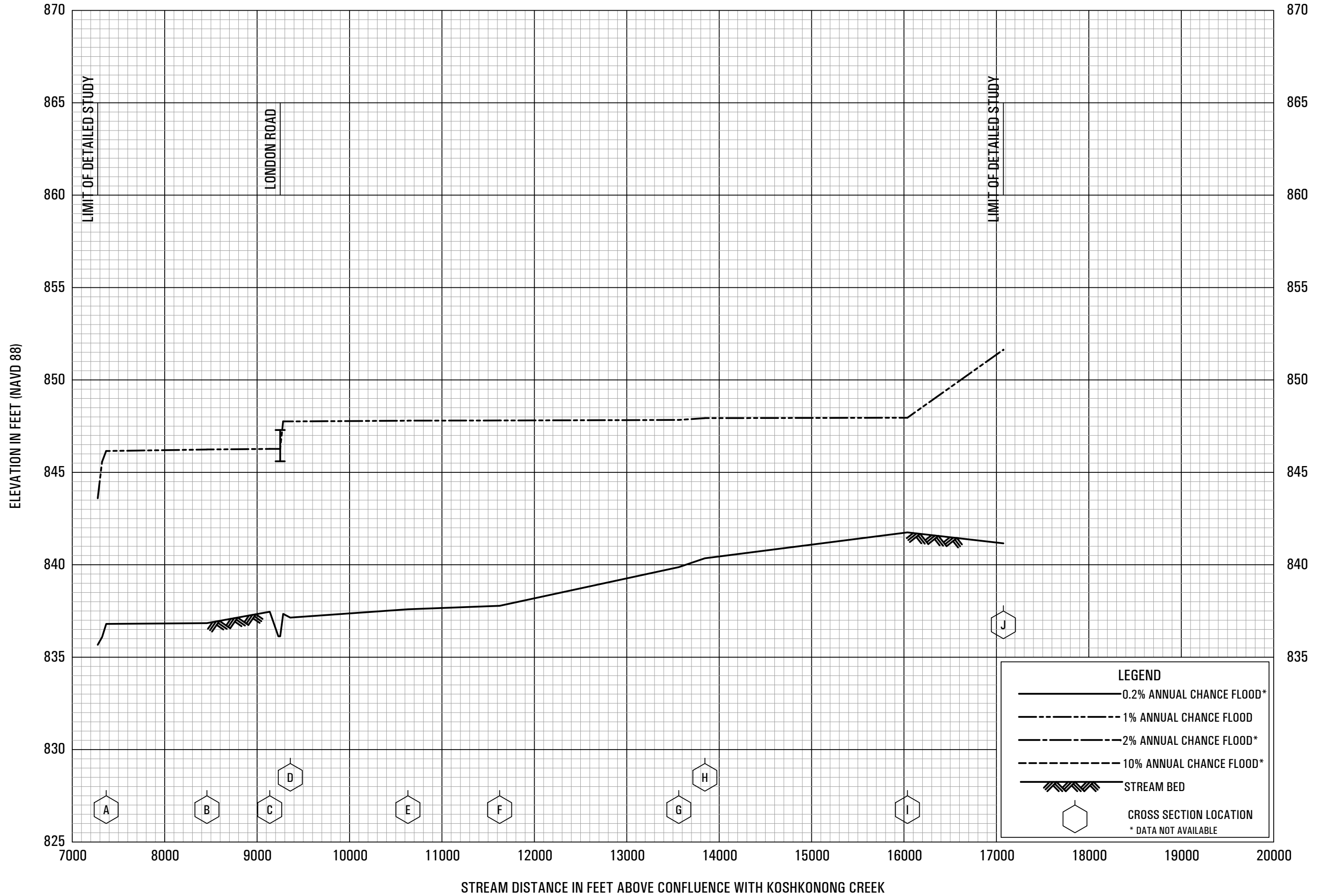


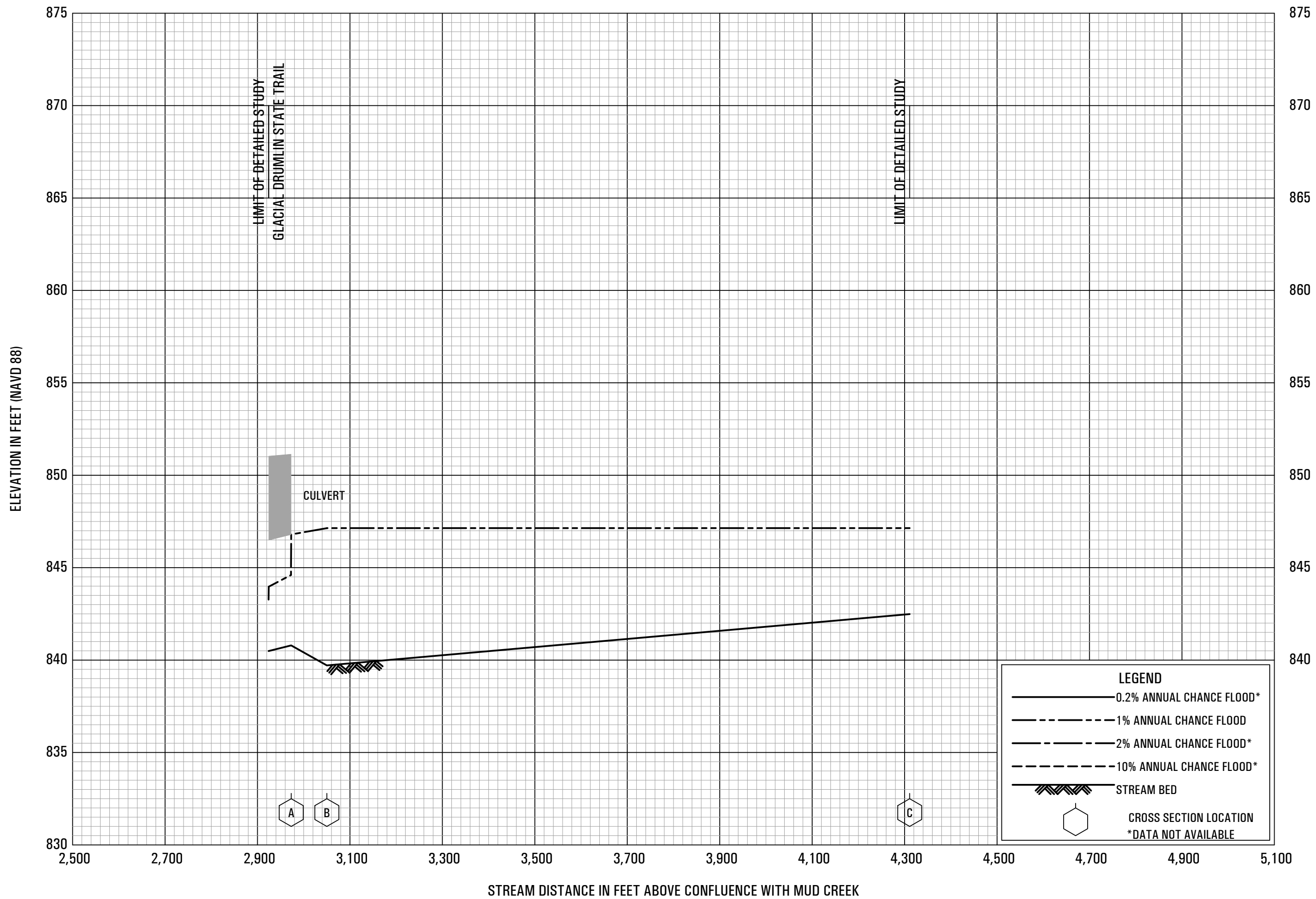
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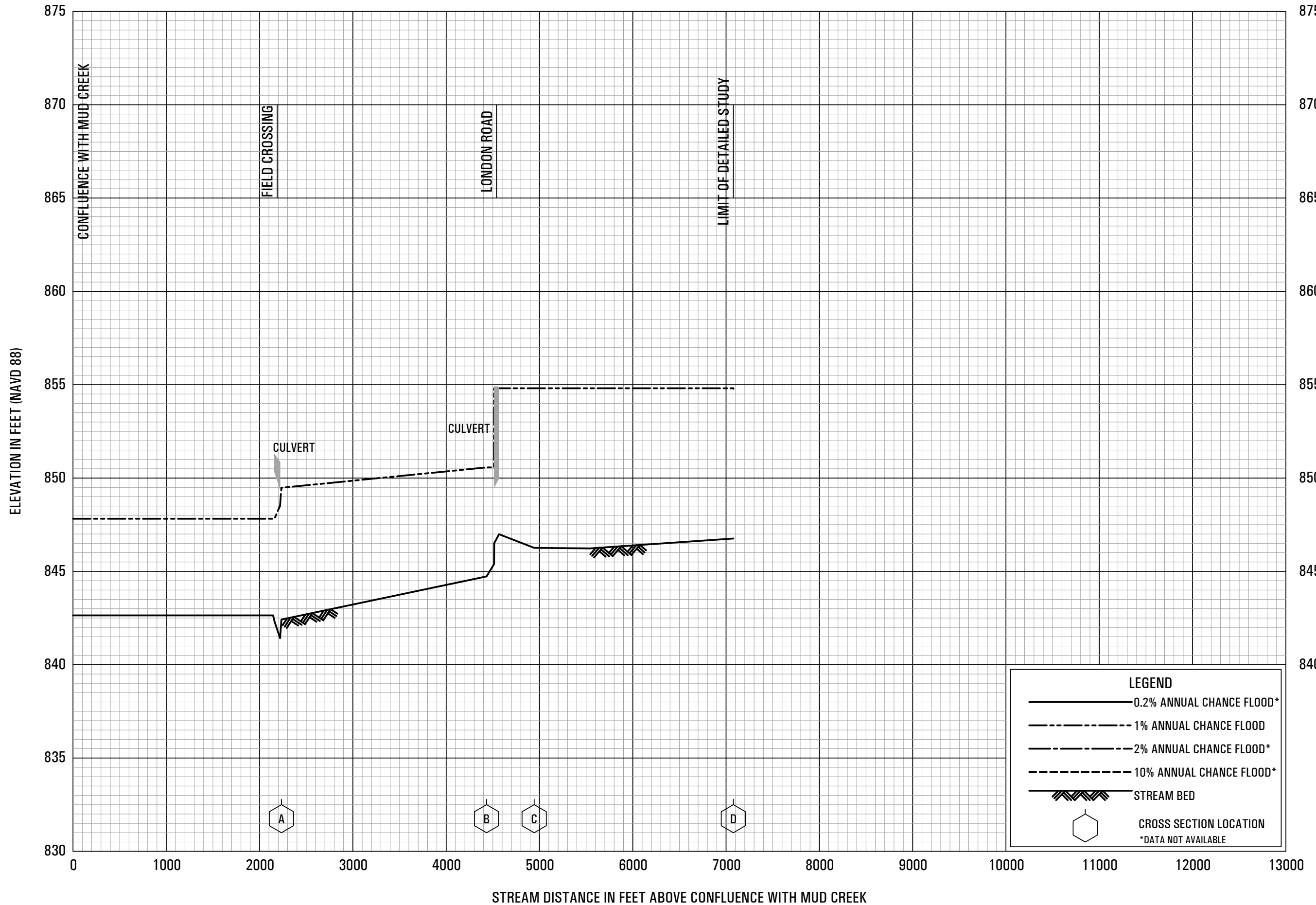


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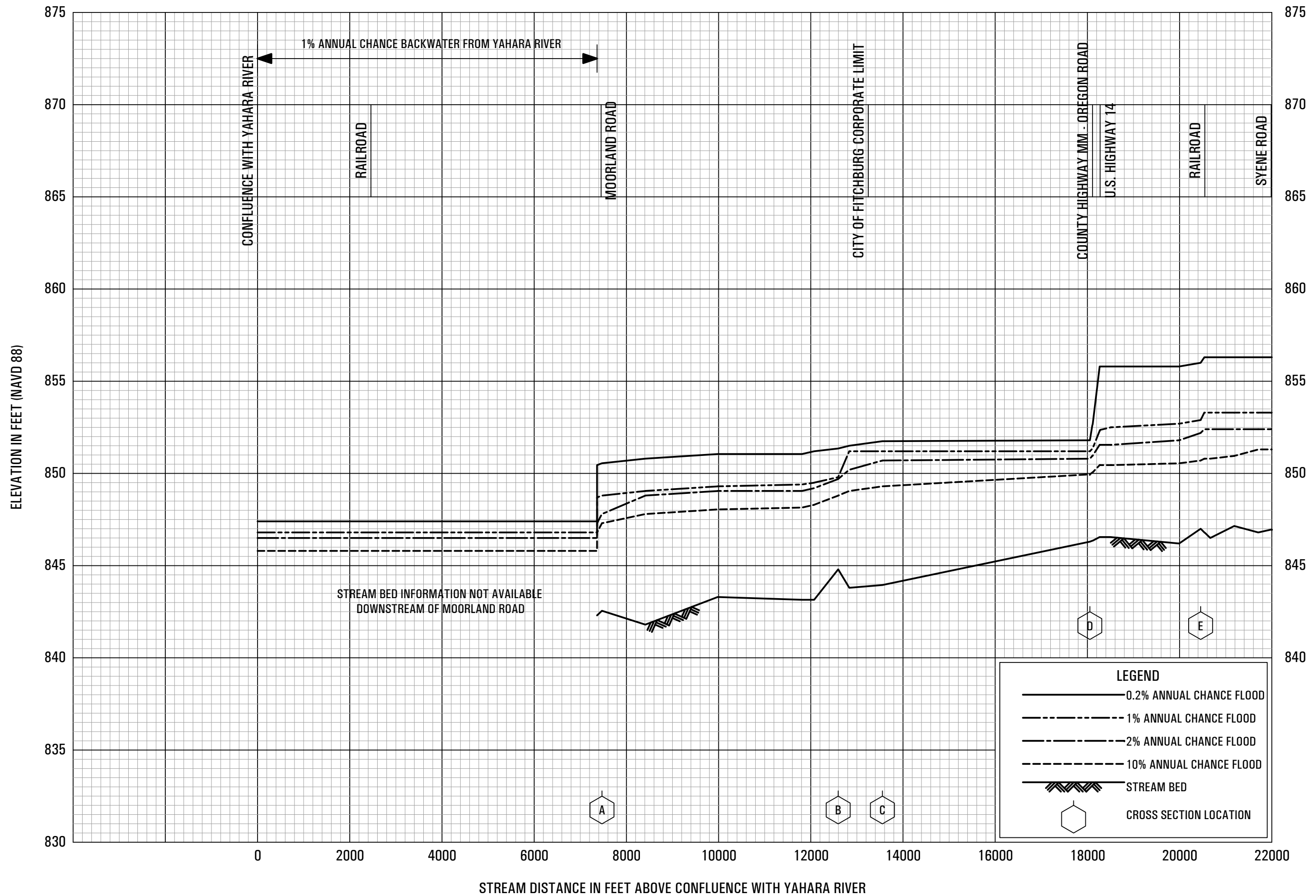


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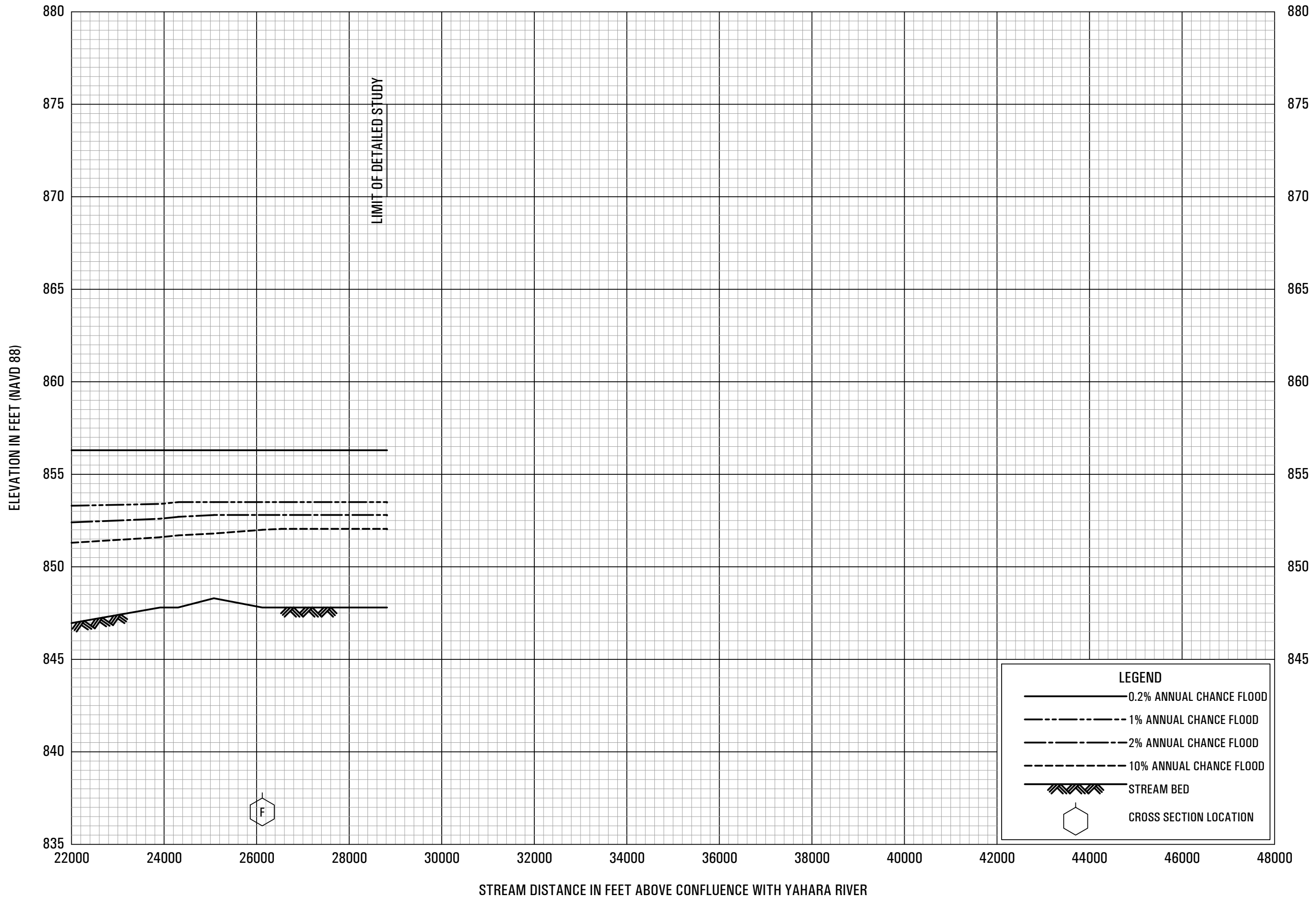


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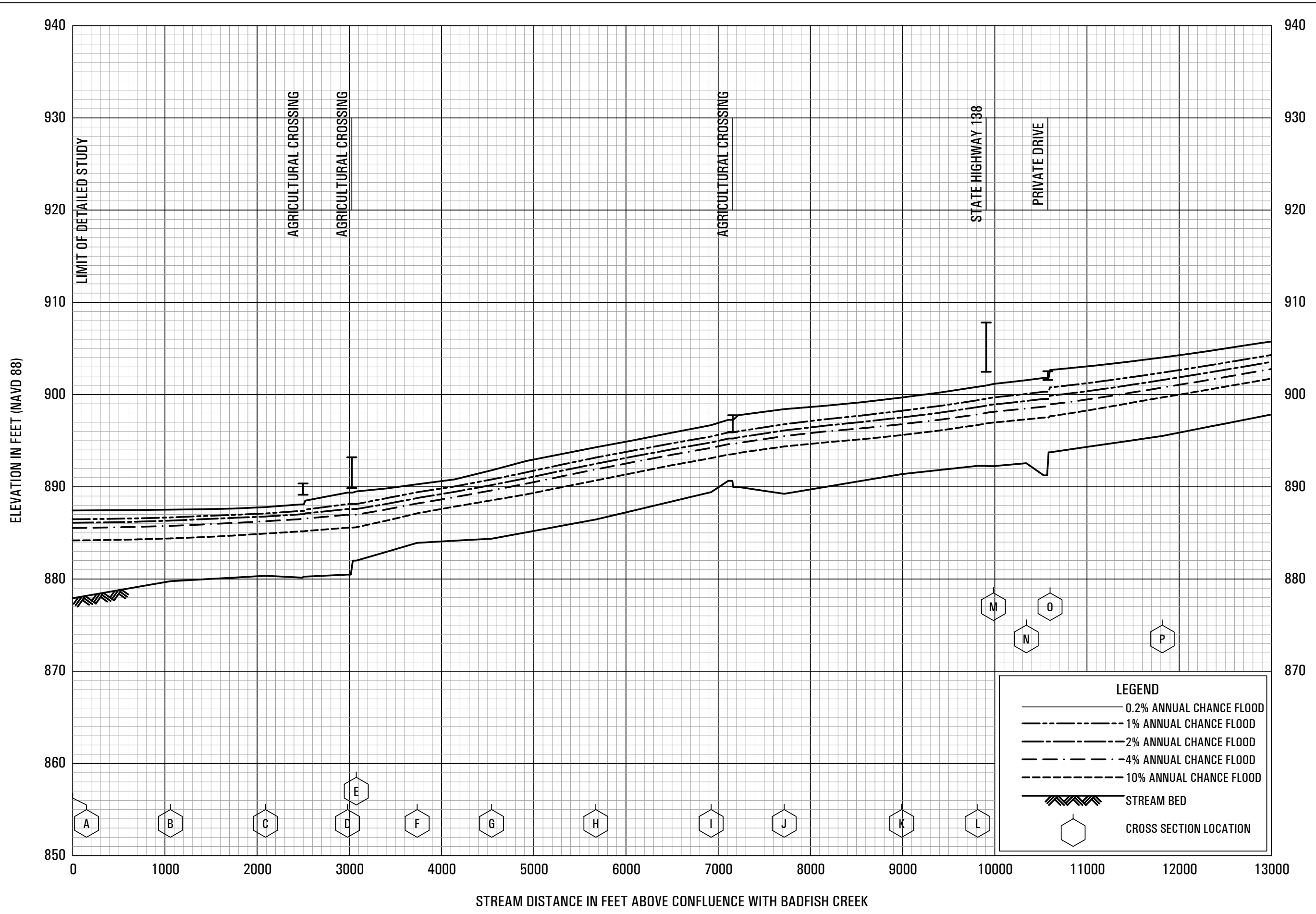
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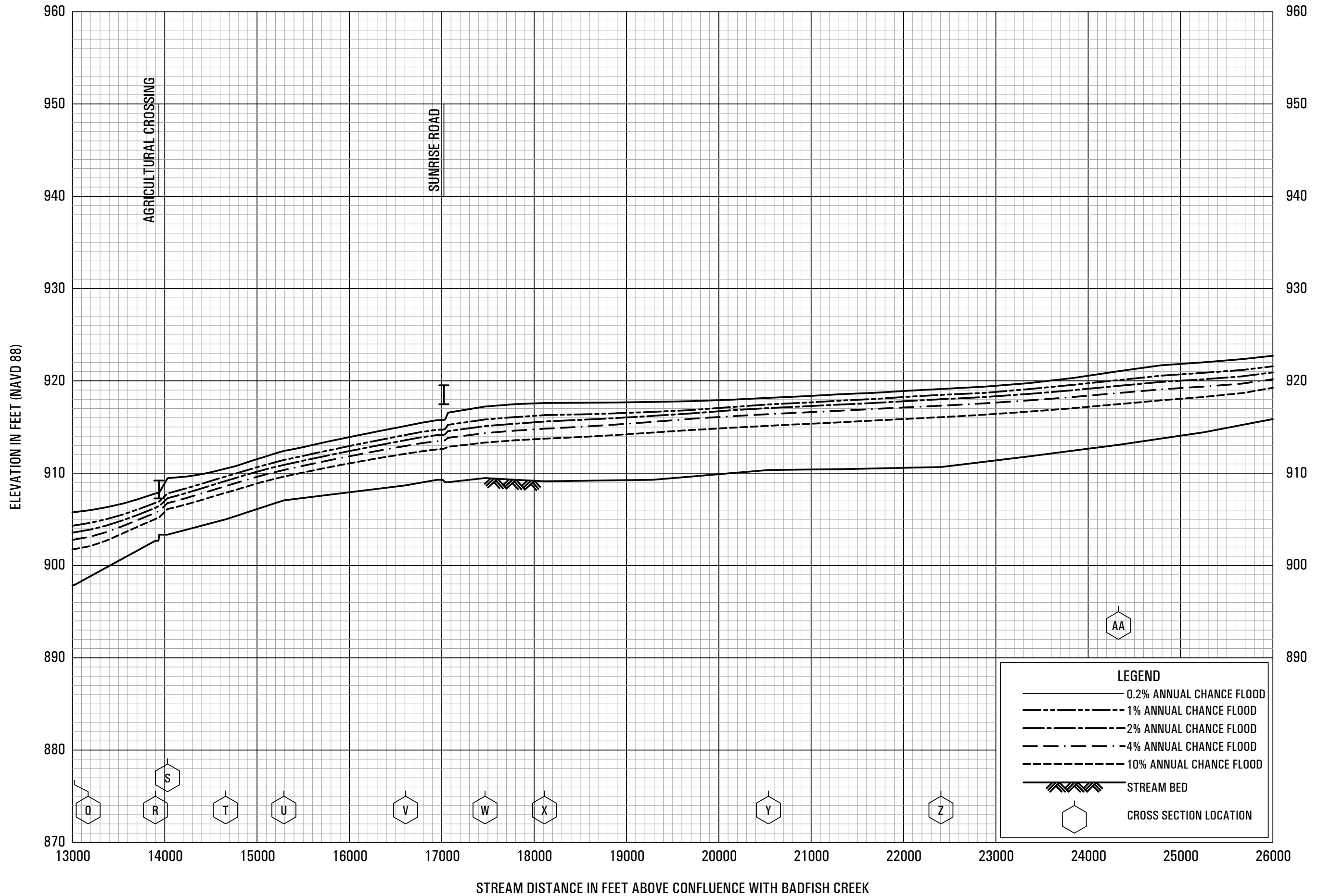
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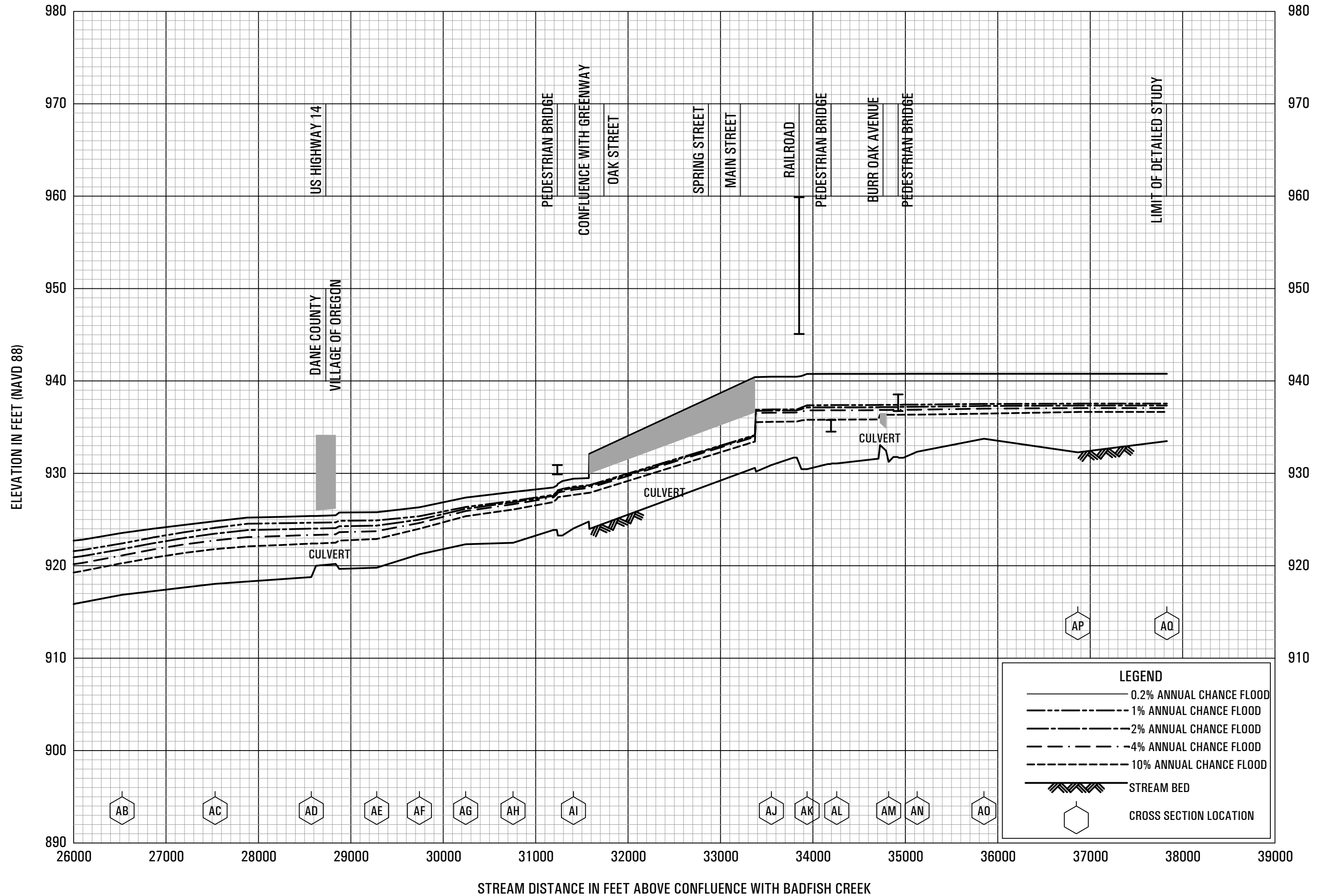


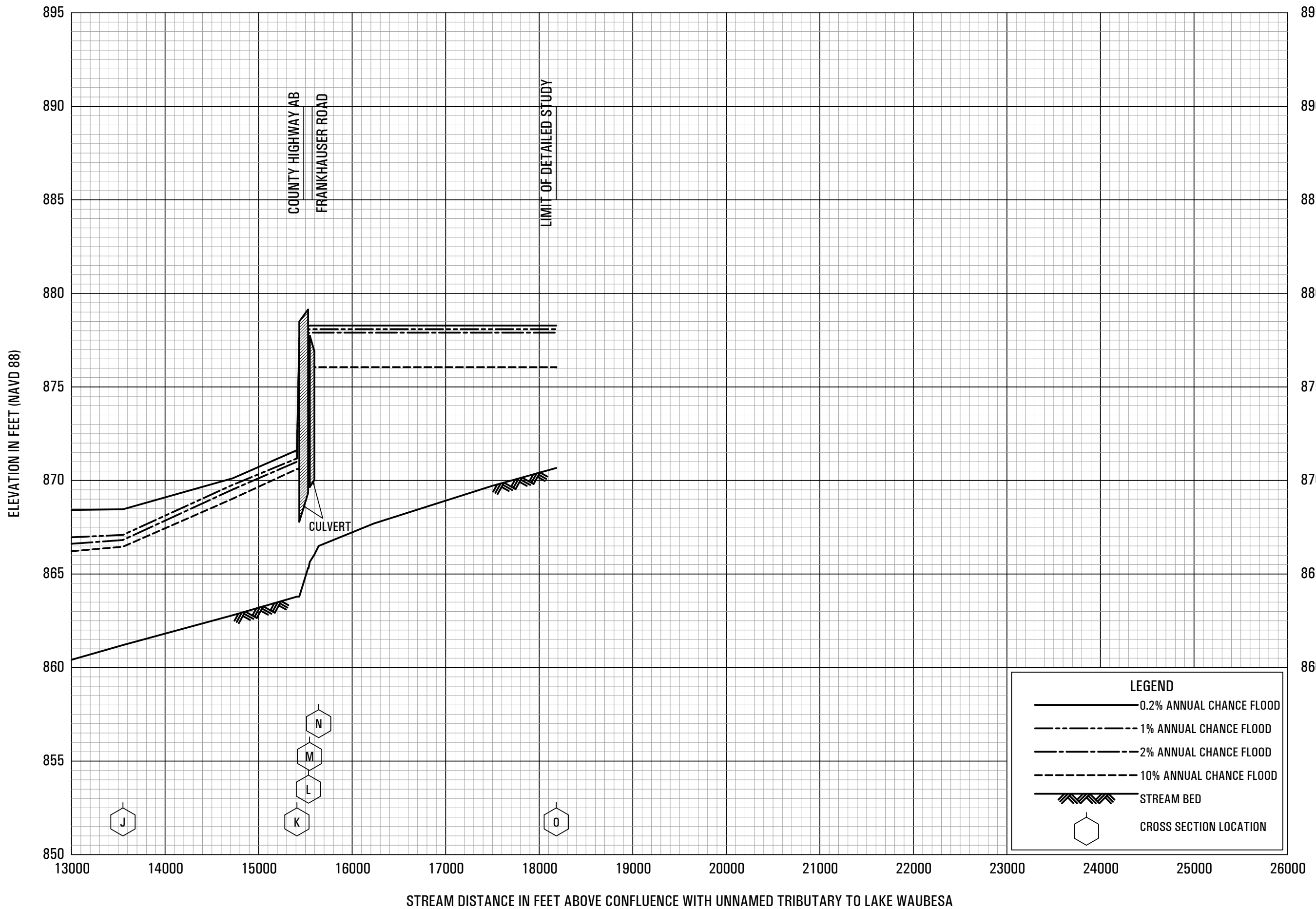


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 OREGON BRANCH BADFISH CREEK

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 AND INCORPORATED AREAS

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PENNITO CREEK

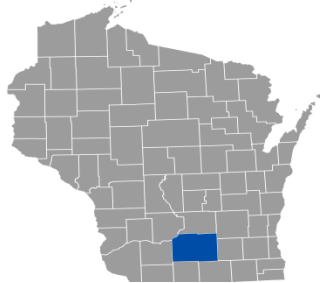
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AND INCORPORATED AREAS**

FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 4 OF 4



DANE COUNTY, WISCONSIN AND INCORPORATED AREAS

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
VILLAGE OF BELLEVILLE	550159	VILLAGE OF MAPLE BLUFF	550618
VILLAGE OF BLACK EARTH	550079	VILLAGE OF MARSHALL	550084
VILLAGE OF BLUE MOUNDS*	550620	VILLAGE OF MAZOMANIE	550085
VILLAGE OF BROOKLYN*	550621	VILLAGE OF McFARLAND	550086
VILLAGE OF CAMBRIDGE	550080	CITY OF MIDDLETON	550087
VILLAGE OF COTTAGE GROVE	550617	CITY OF MONONA	550088
VILLAGE OF CROSS PLAINS	550081	VILLAGE OF MOUNT HOREB	550624
DANE COUNTY UNINCORPORATED AREAS	550077	VILLAGE OF OREGON	550089
VILLAGE OF DANE*	550622	VILLAGE OF ROCKDALE	550090
VILLAGE OF DEERFIELD	550623	VILLAGE OF SHOREWOOD HILLS	550556
VILLAGE OF DeFOREST	550082	CITY OF STOUGHTON	550091
CITY OF EDGERTON	550365	CITY OF SUN PRAIRIE	550573
CITY OF FITCHBURG	550610	CITY OF VERONA	550092
CITY OF MADISON	550083	VILLAGE OF WAUNAKEE	550093

* No Special Flood Hazards Identified in Dane County

EFFECTIVE:

REVISED PRELIMINARY 05/20/2015



FEMA

FLOOD INSURANCE STUDY NUMBER
55025CV004D

Version Number 2.2.2.1

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Black Earth Creek	05-10 P
Black Earth Creek Overland Flow Path 1	11 P
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Dorn Creek	21-28 P
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Greenway	38 P
Koshkonong Creek	39-56 P
Leutens Creek	57-58 P
Maunsha River	59-63 P

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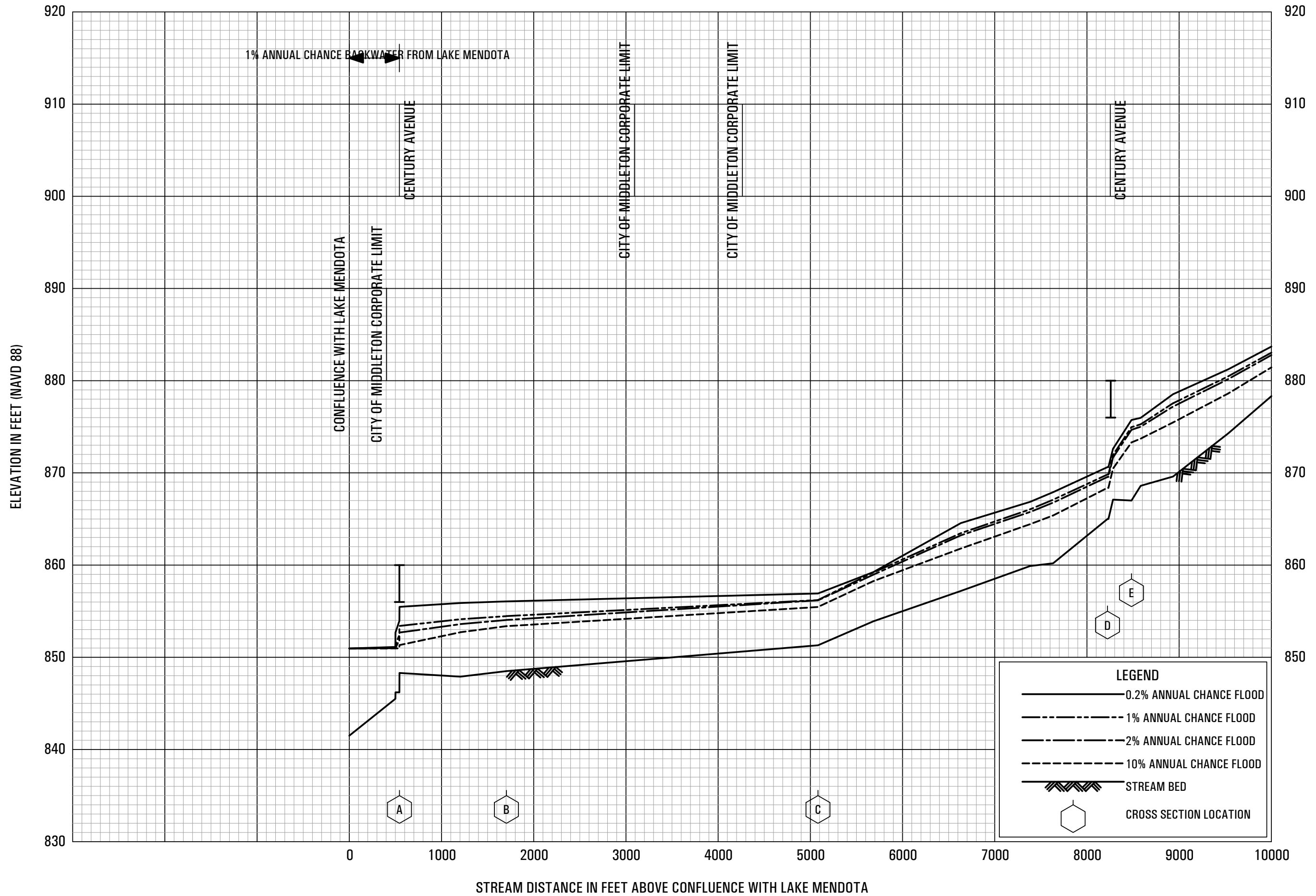
Milwaukee Street Tributary	64 P
Mud Creek	65 P
Mud Creek North Fork	66 P
Mud Creek West Channel	67 P
Nine Springs Creek	68-69 P
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Sixmile Creek	89-93 P
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Token Creek	101-109 P
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West Branch Starkweather Creek	120-123 P
Wisconsin River	124-126 P
Yahara River	127-148 P

Published Separately

Flood Insurance Rate Map (FIRM)

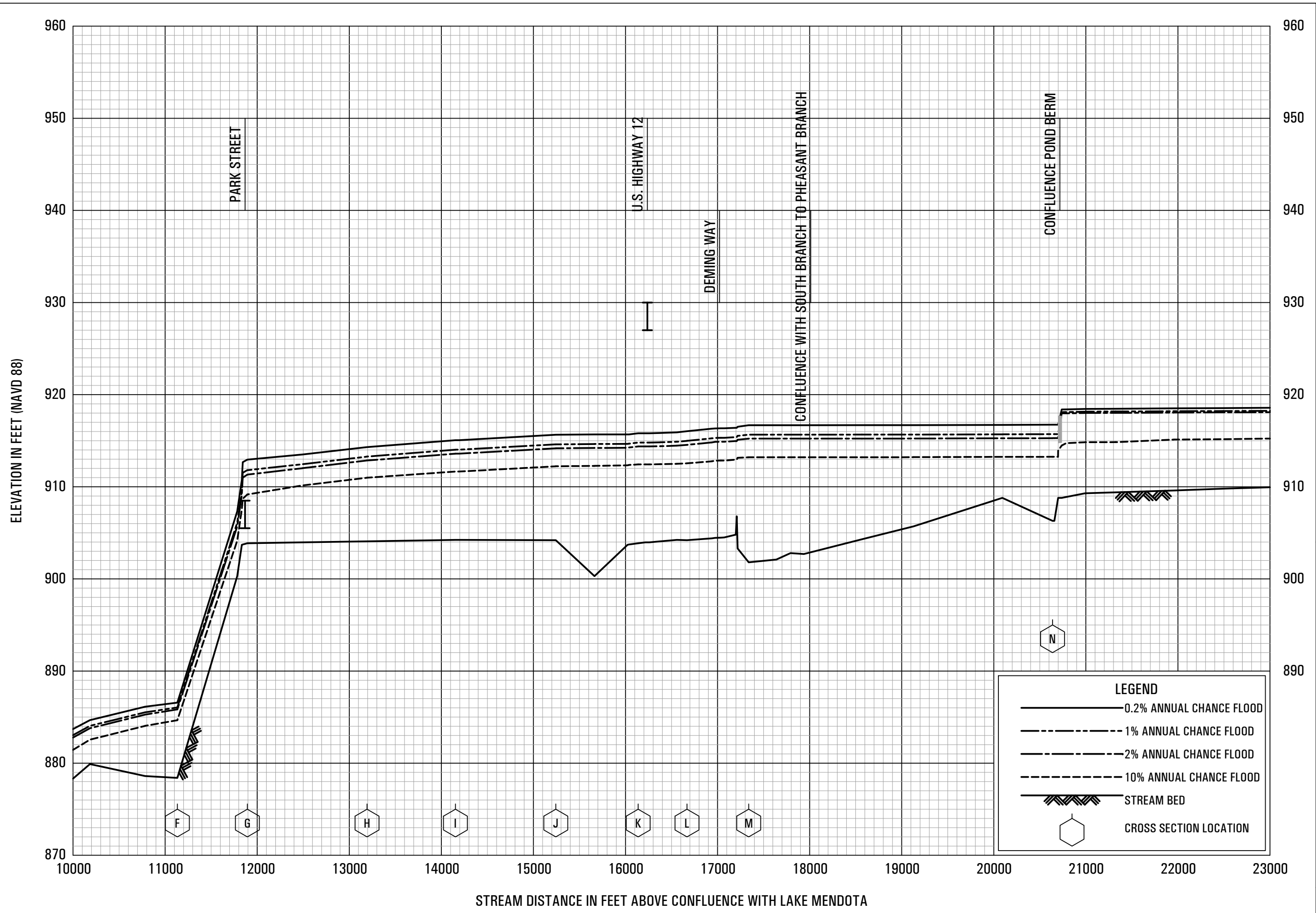


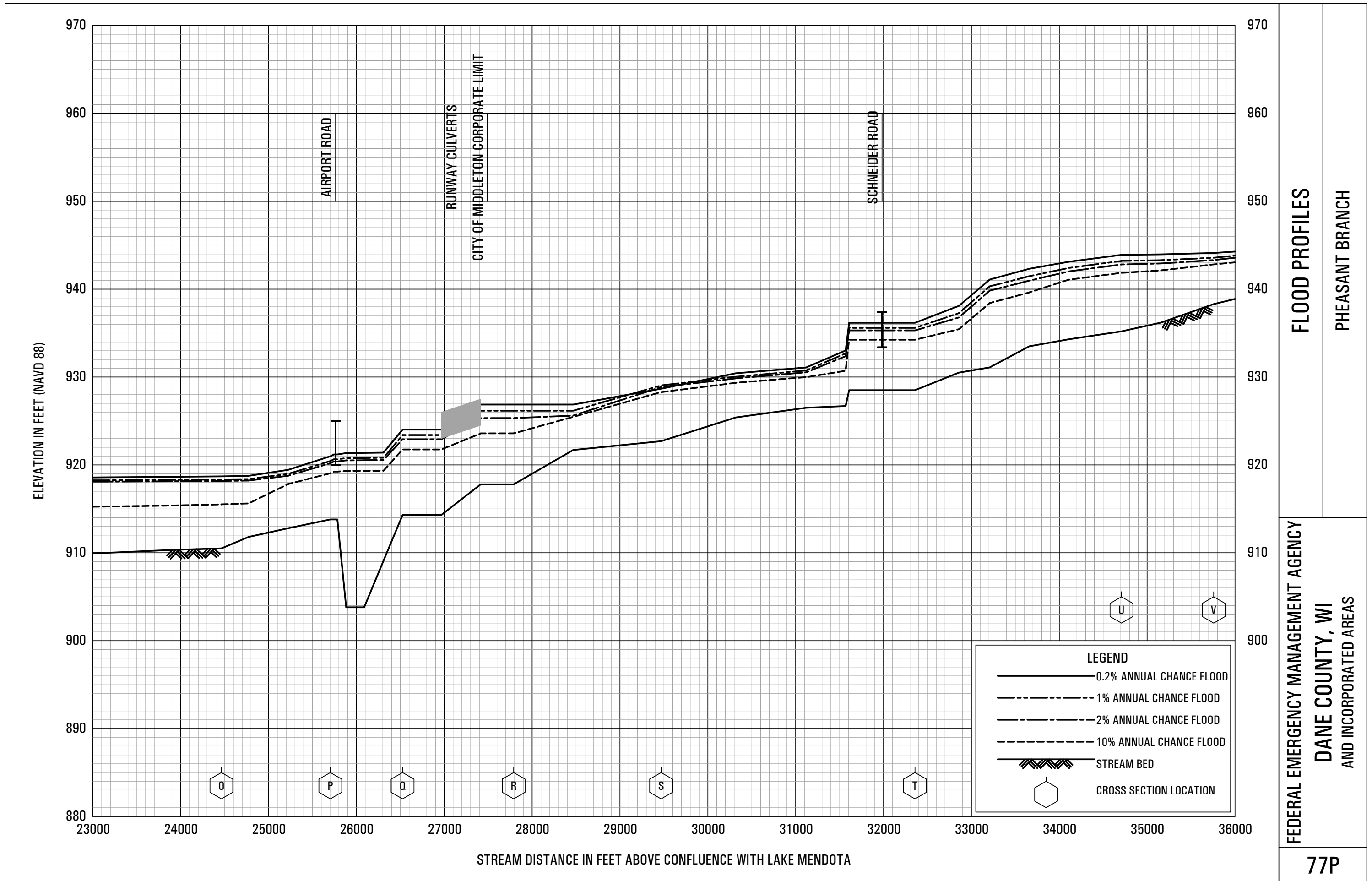
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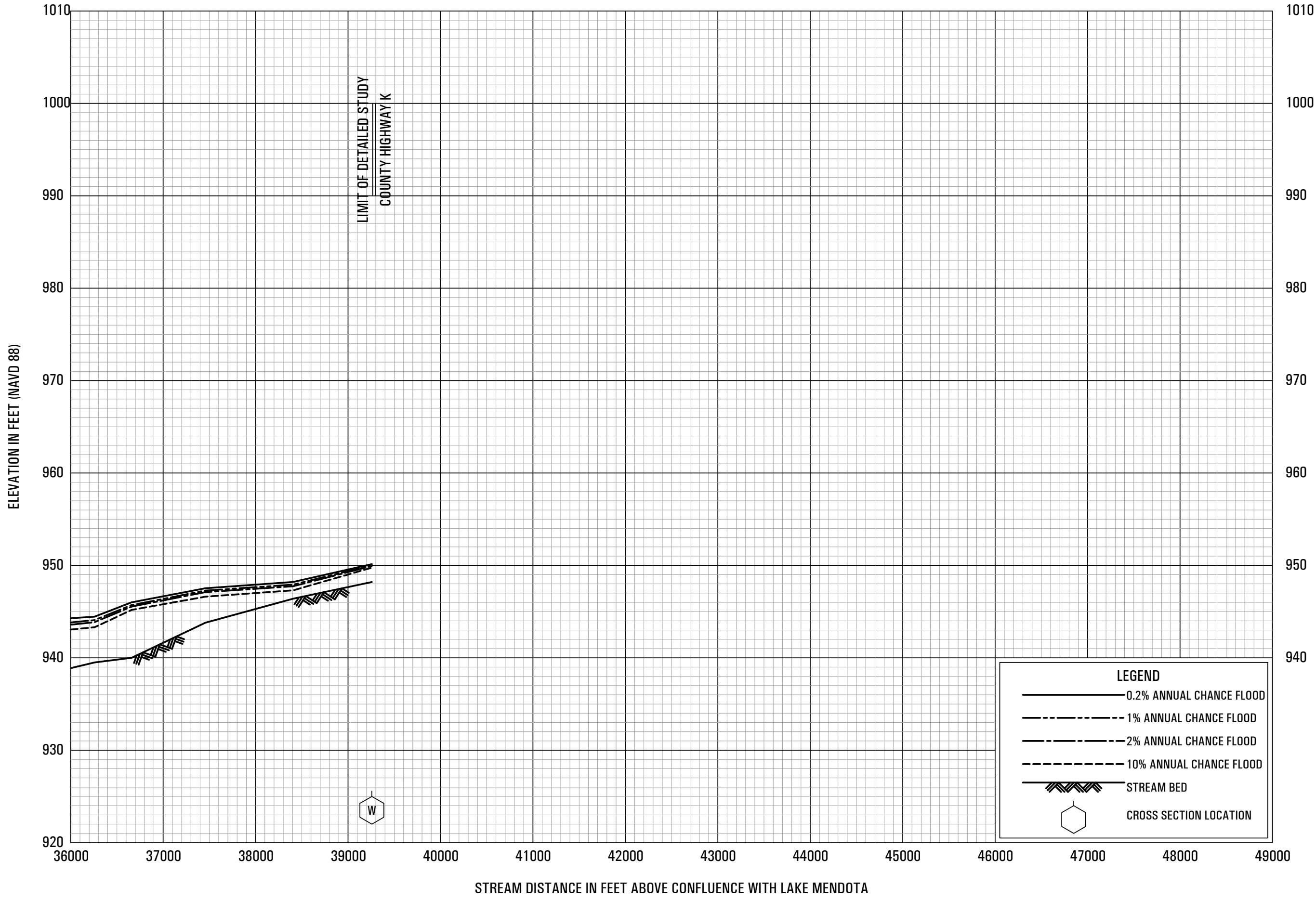
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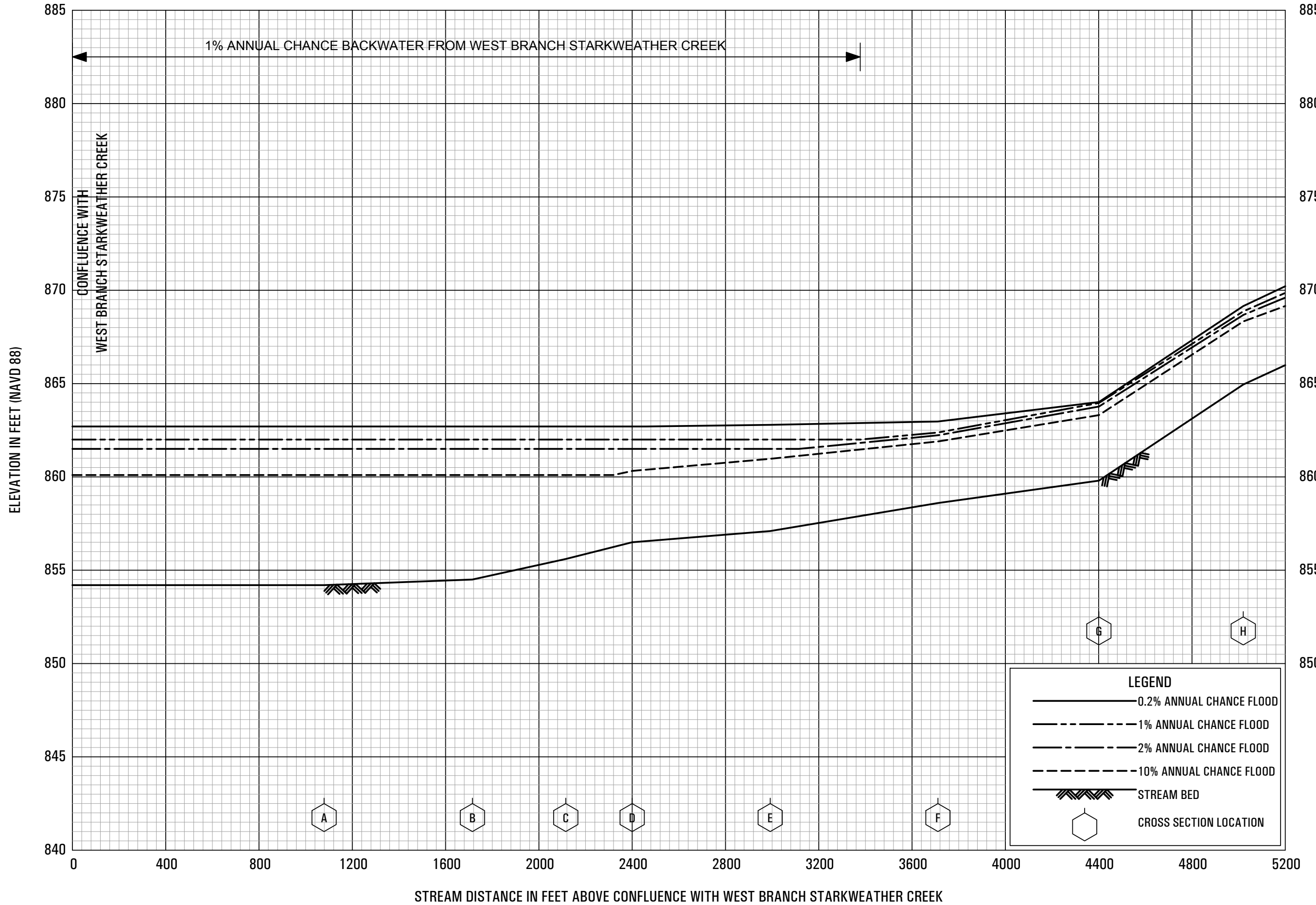


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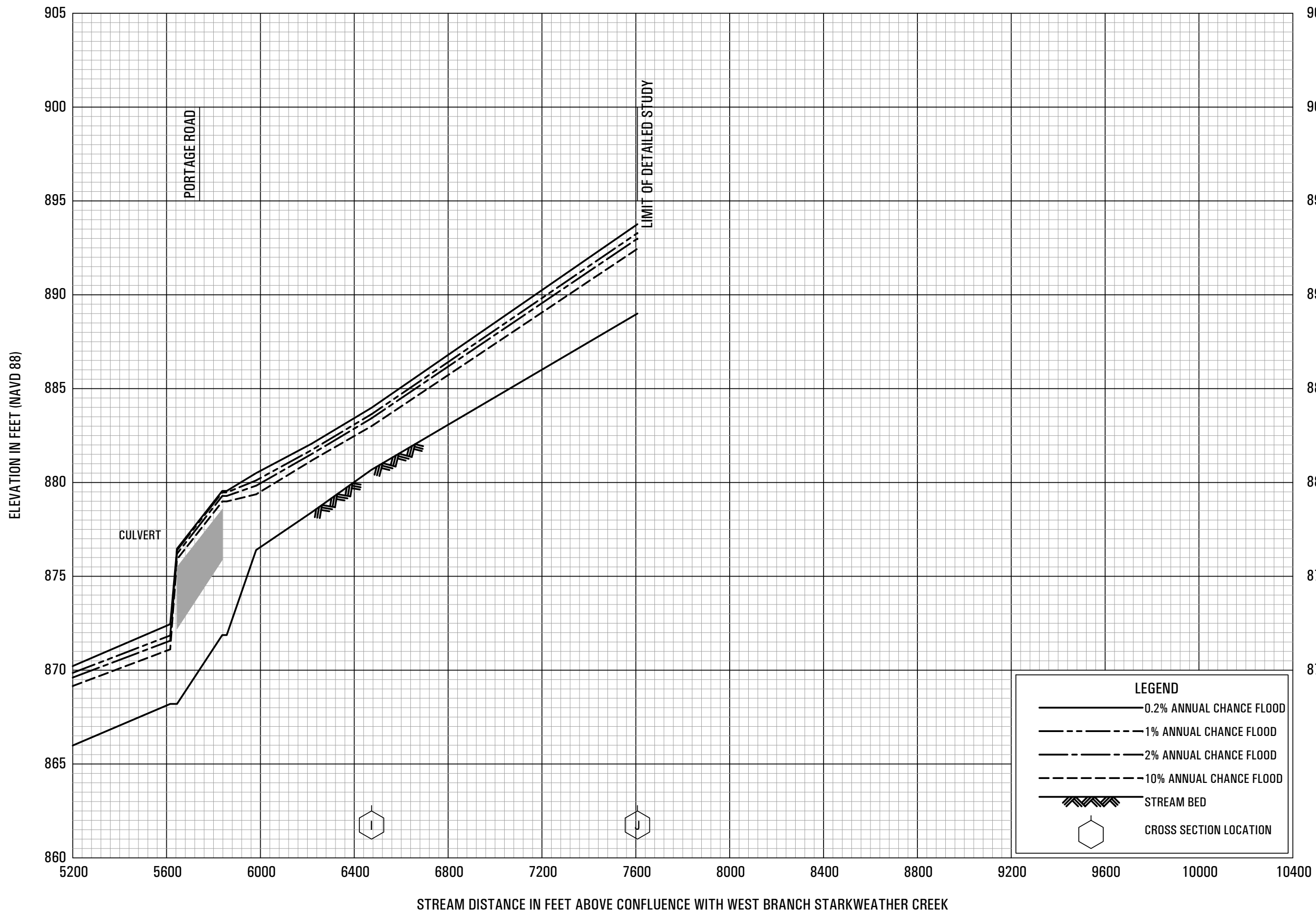


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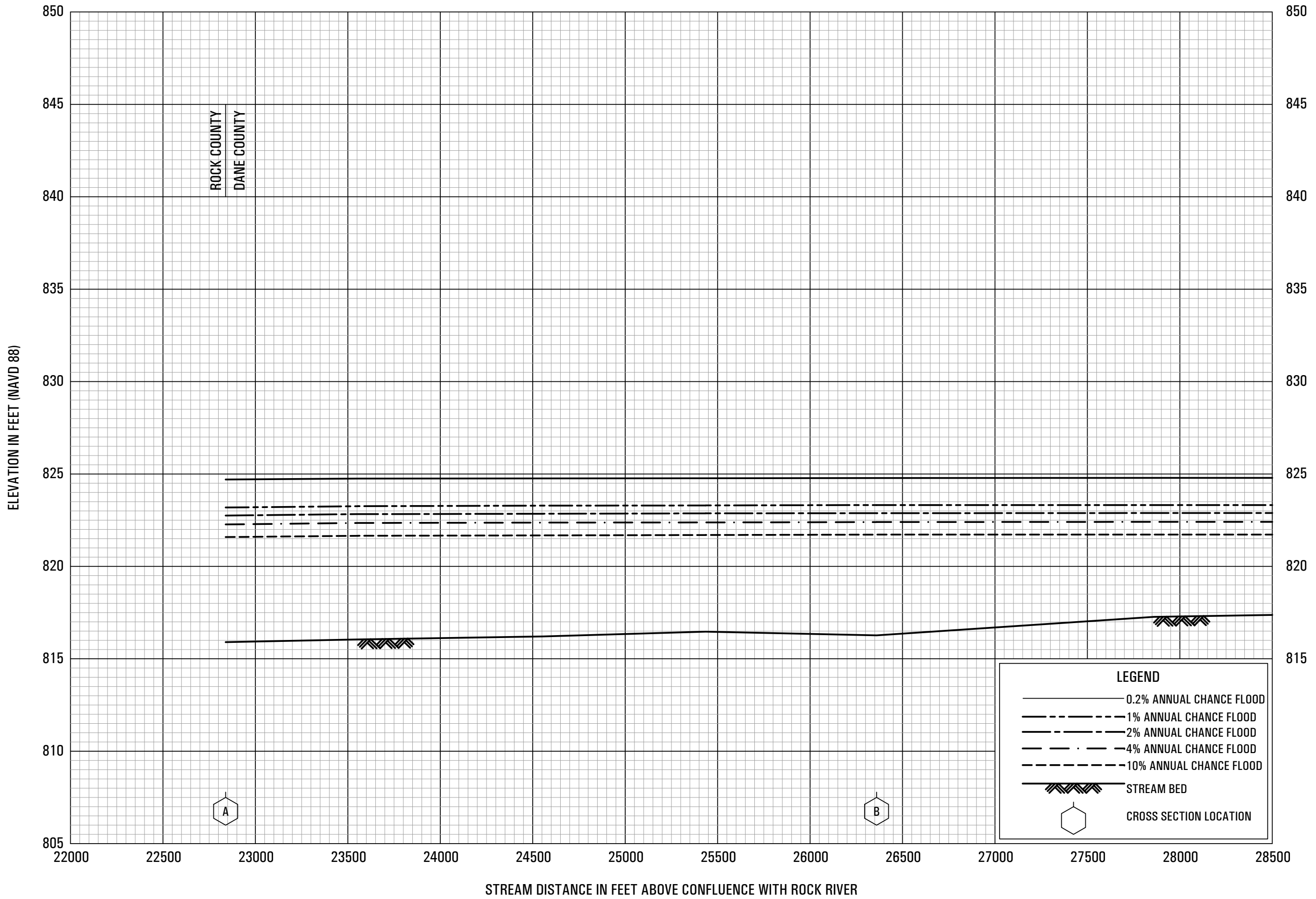


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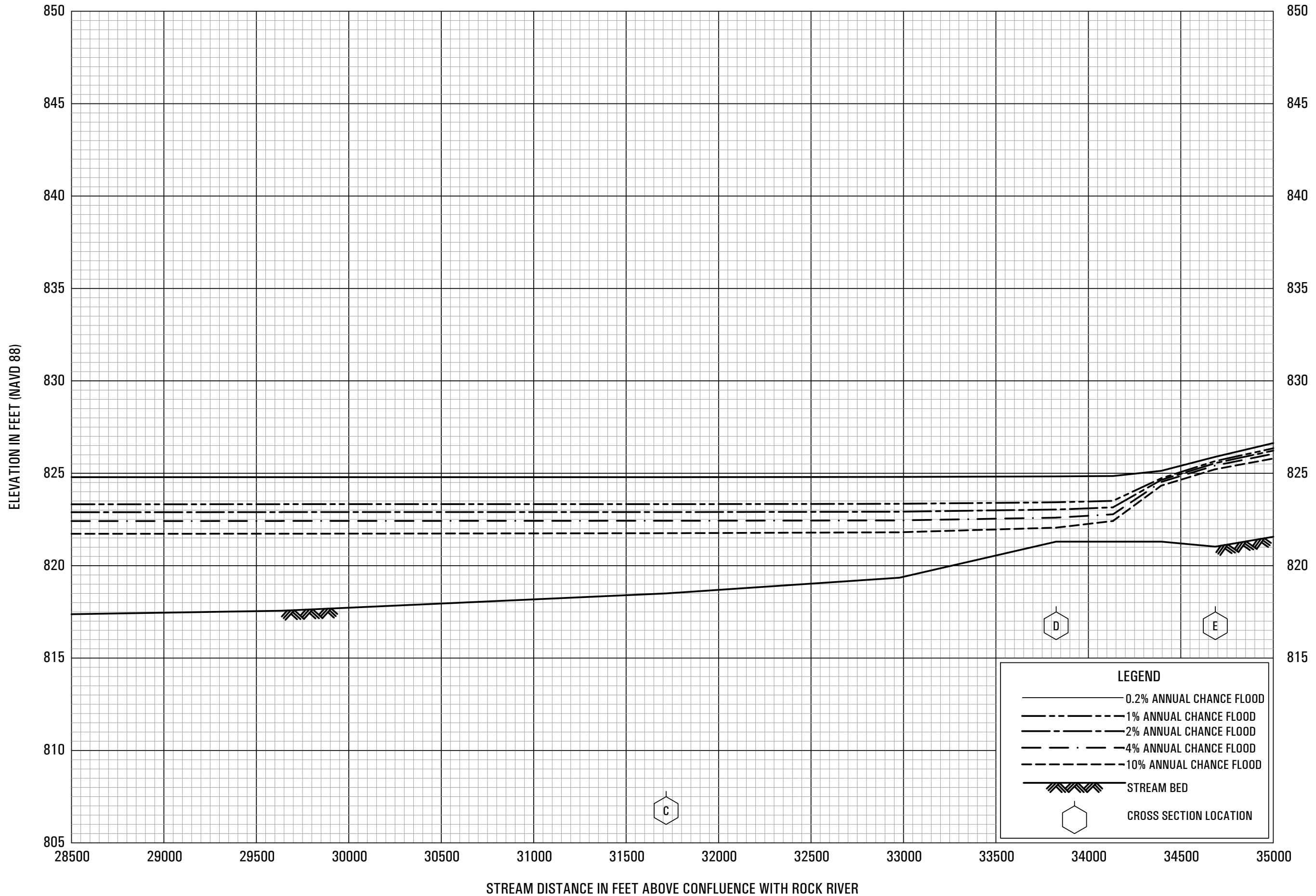
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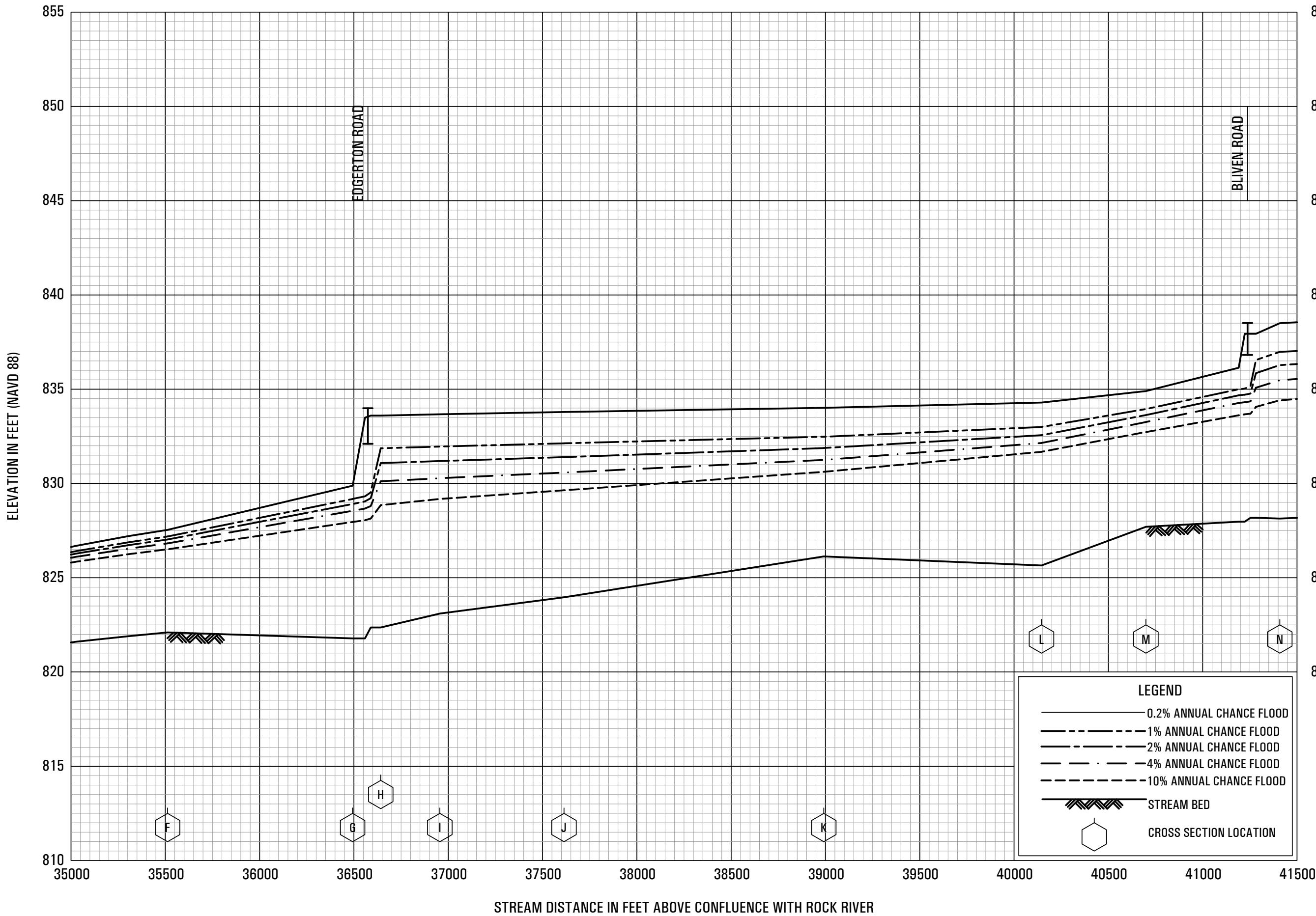


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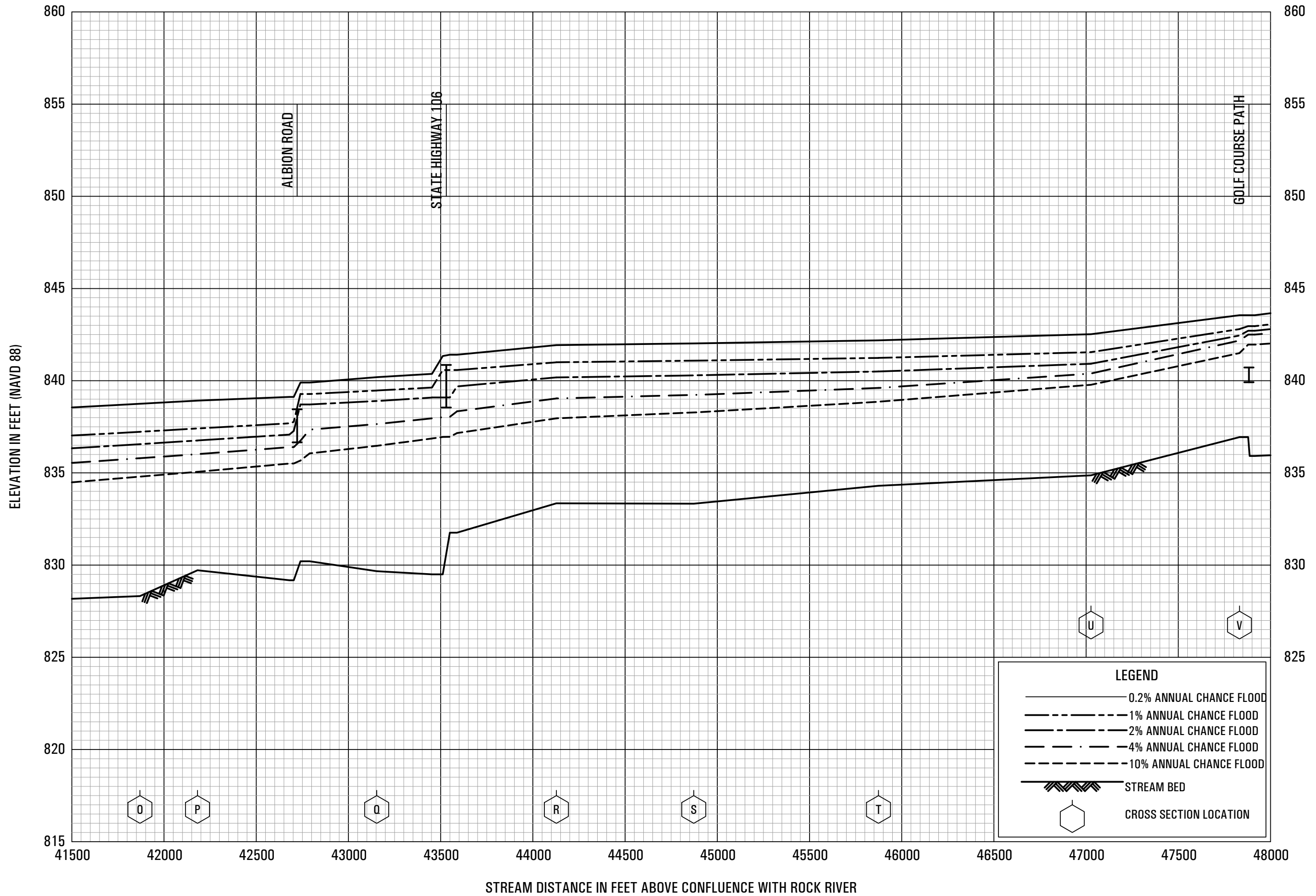
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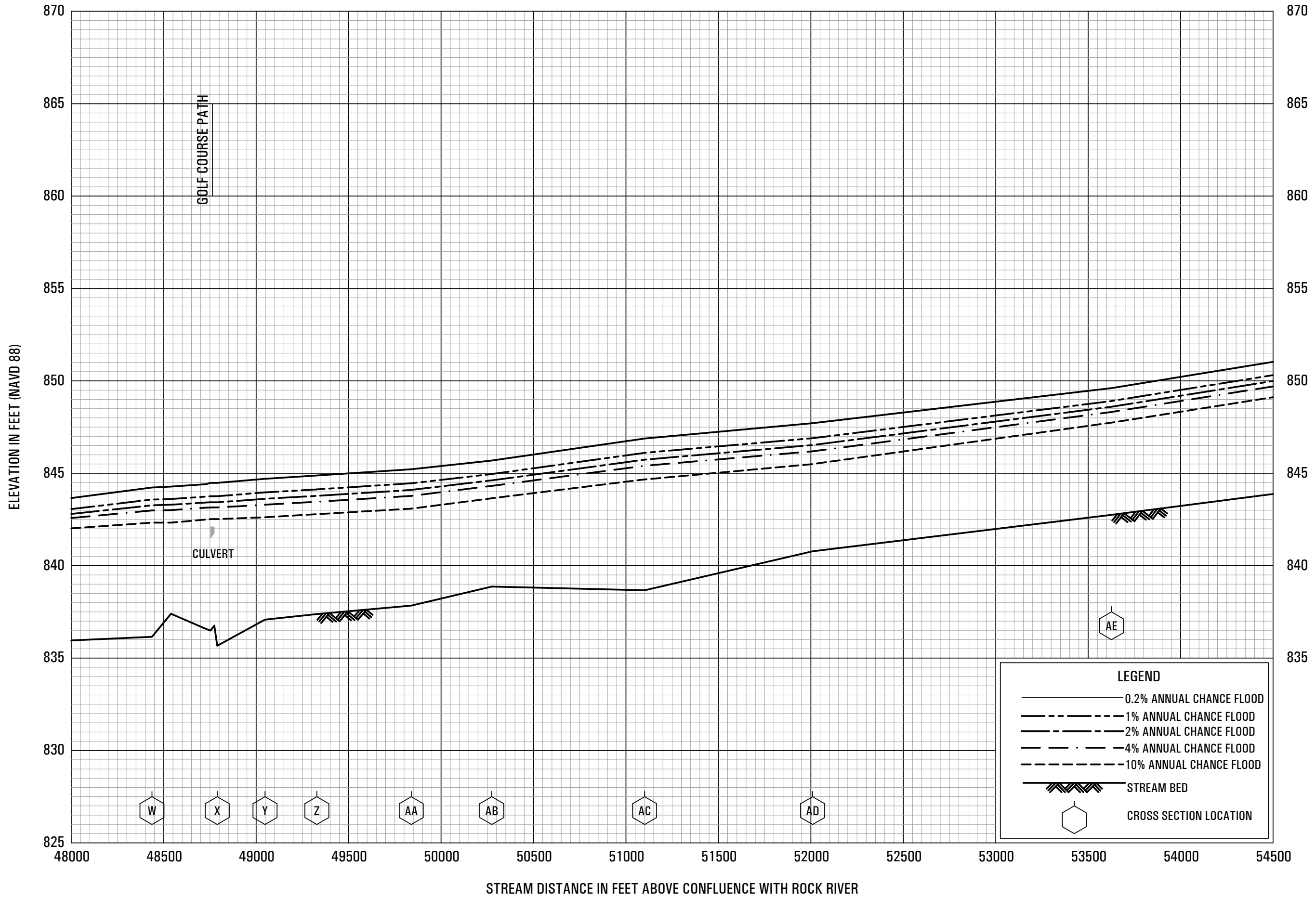


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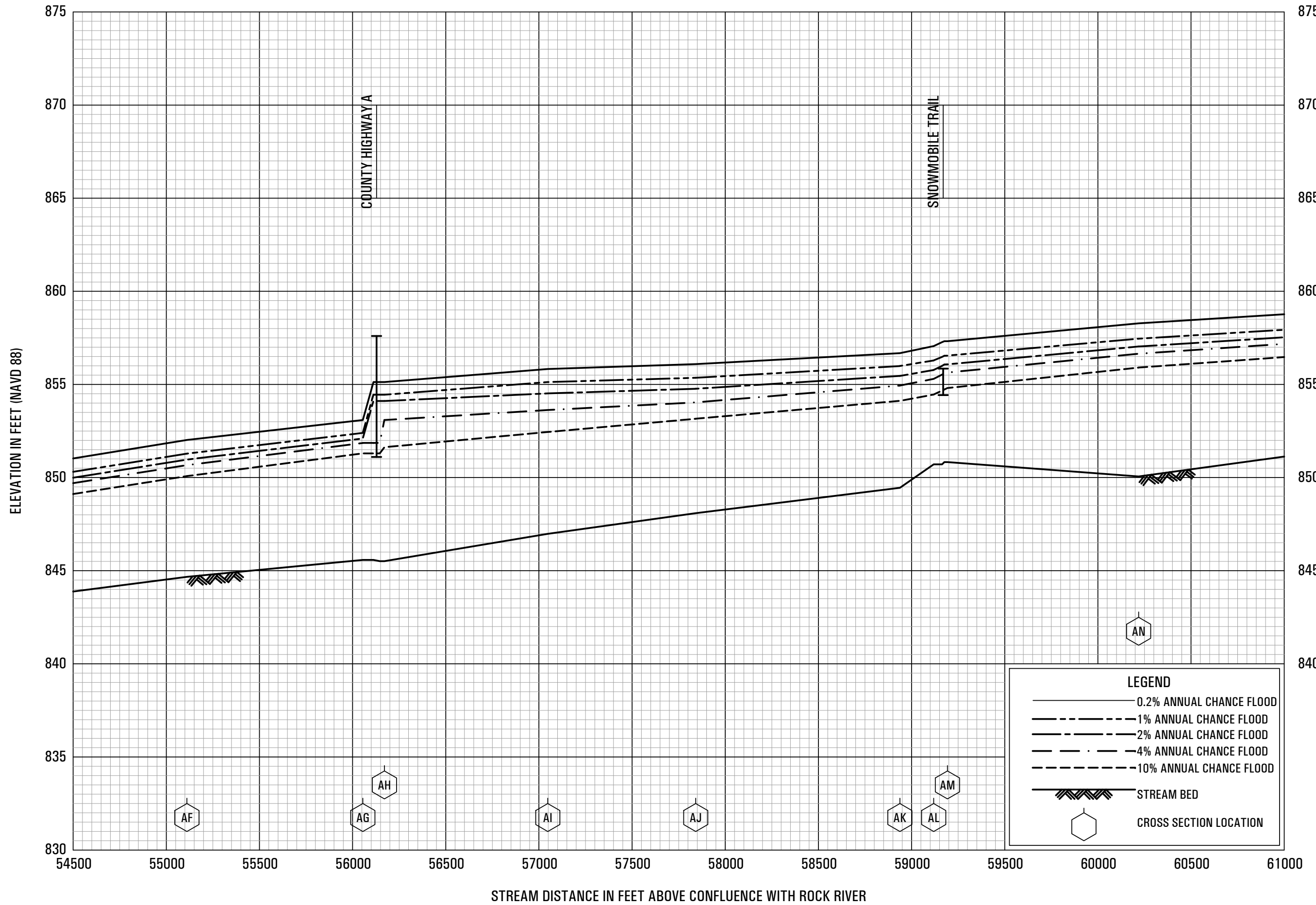


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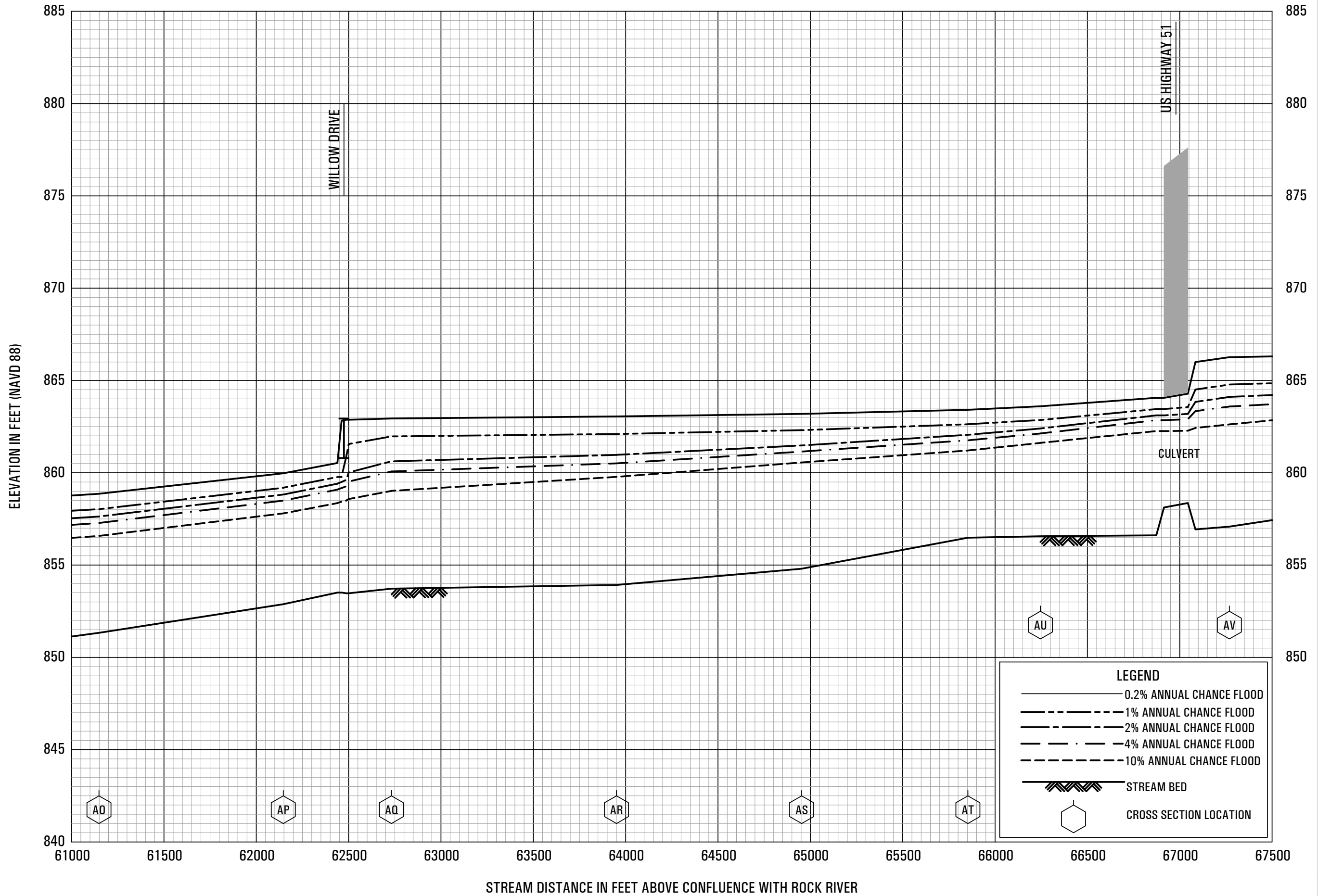


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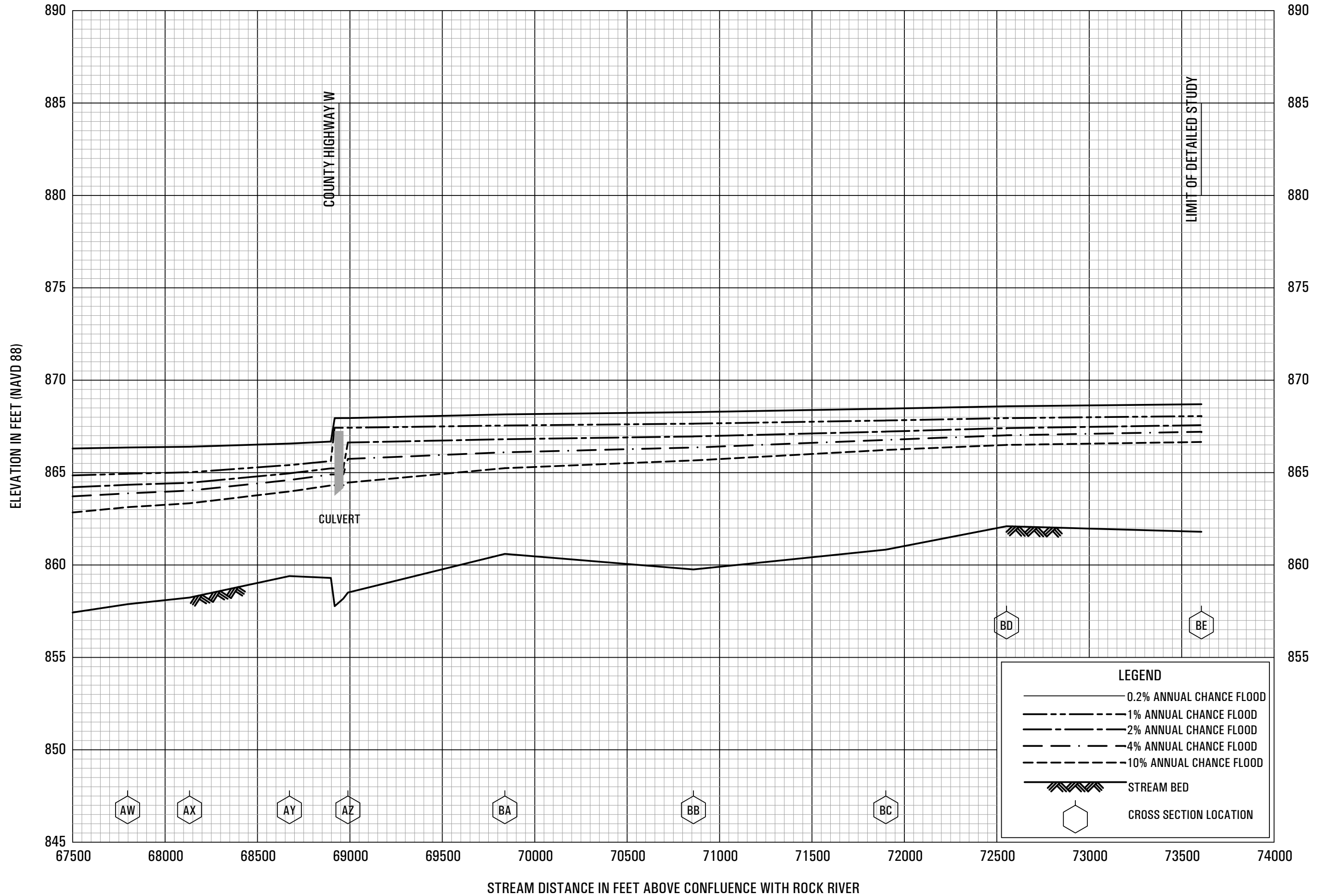


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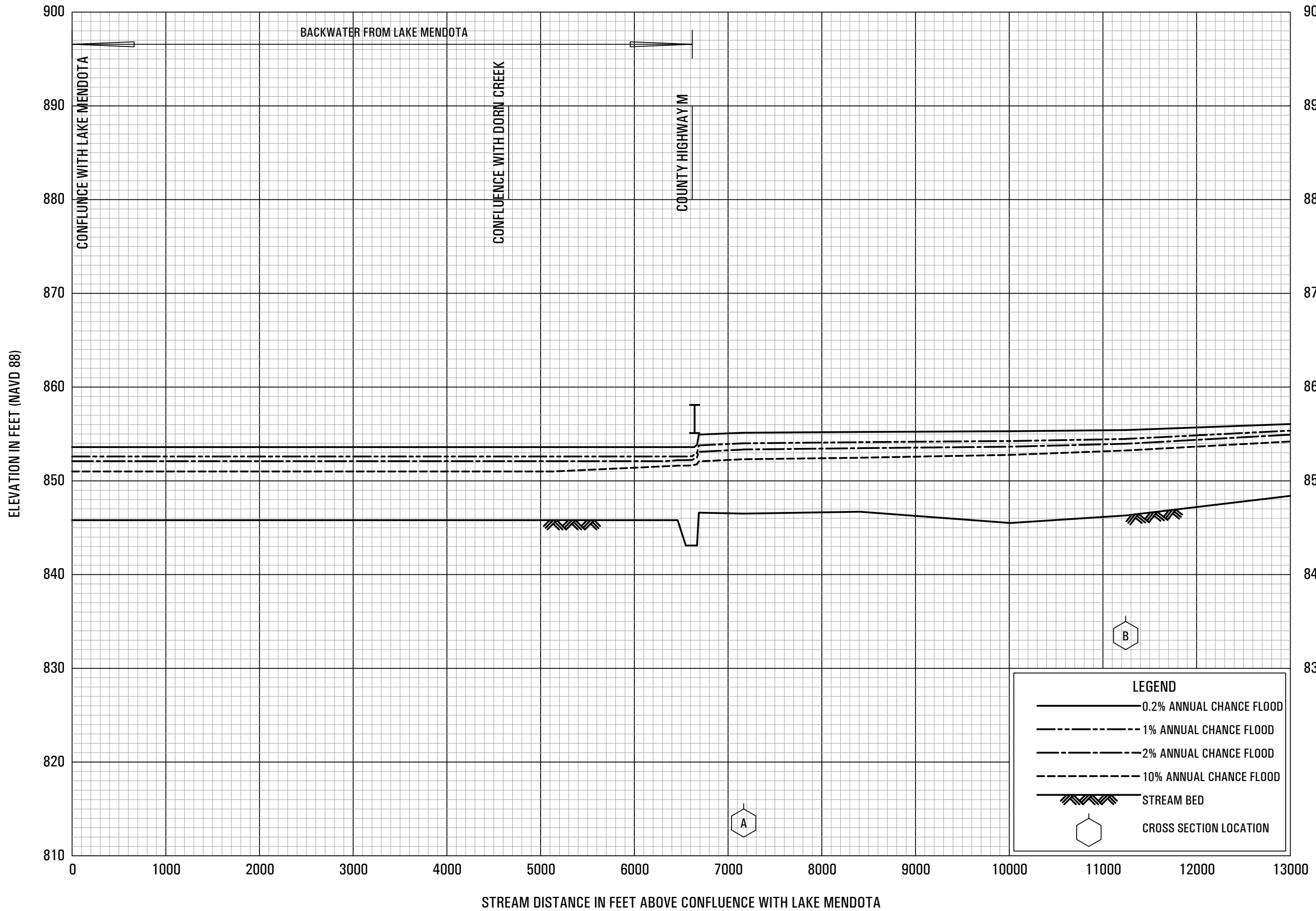


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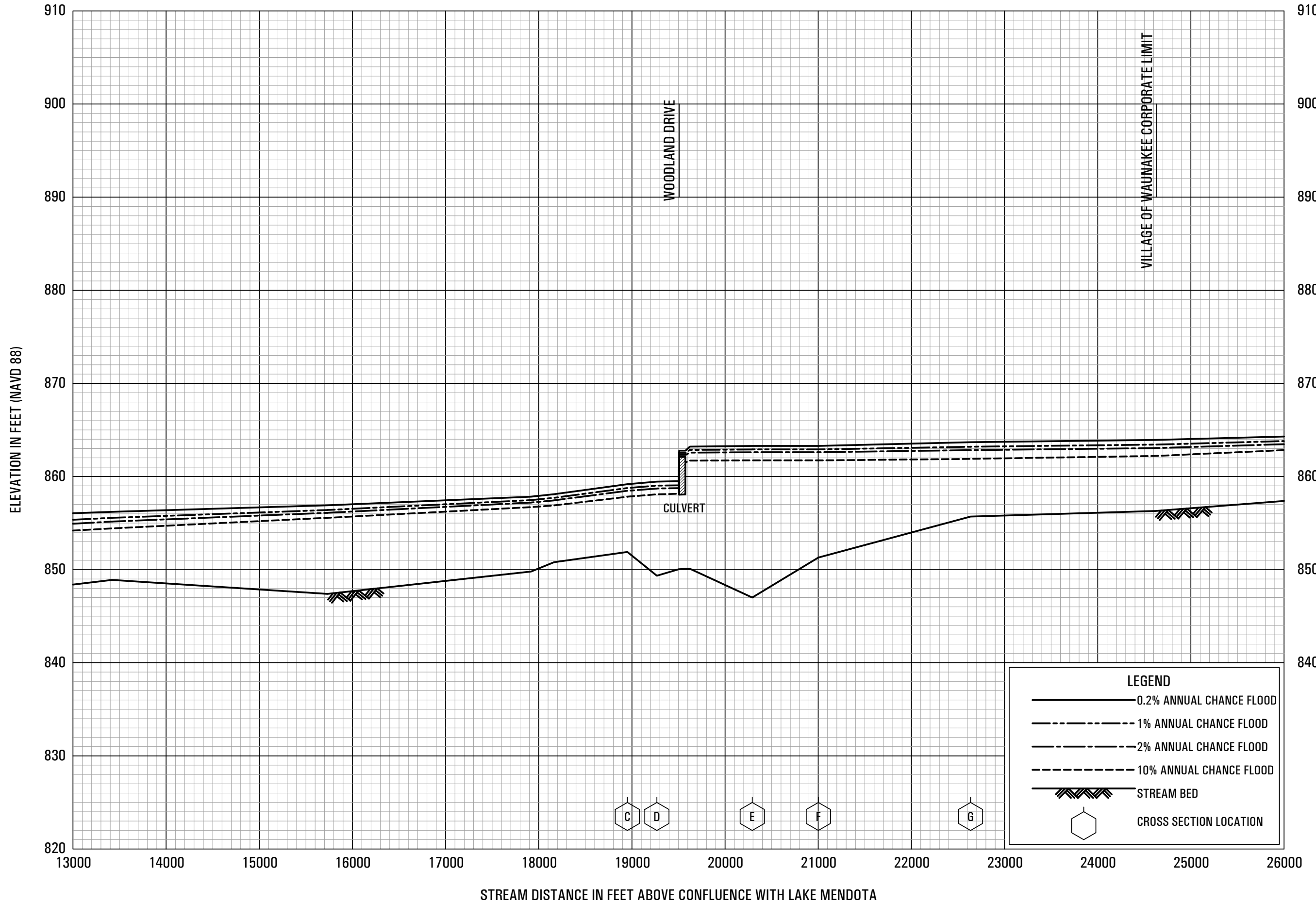


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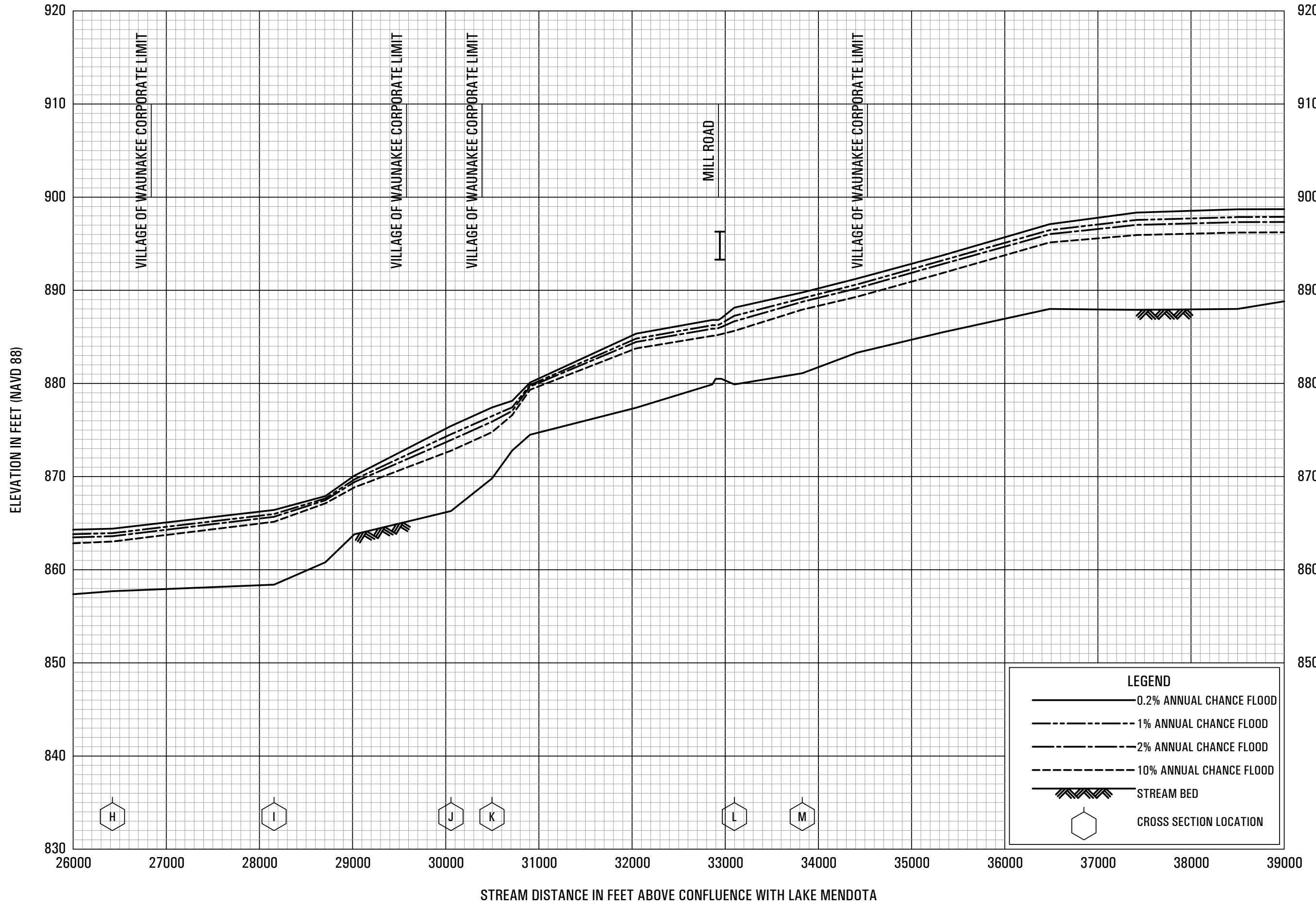
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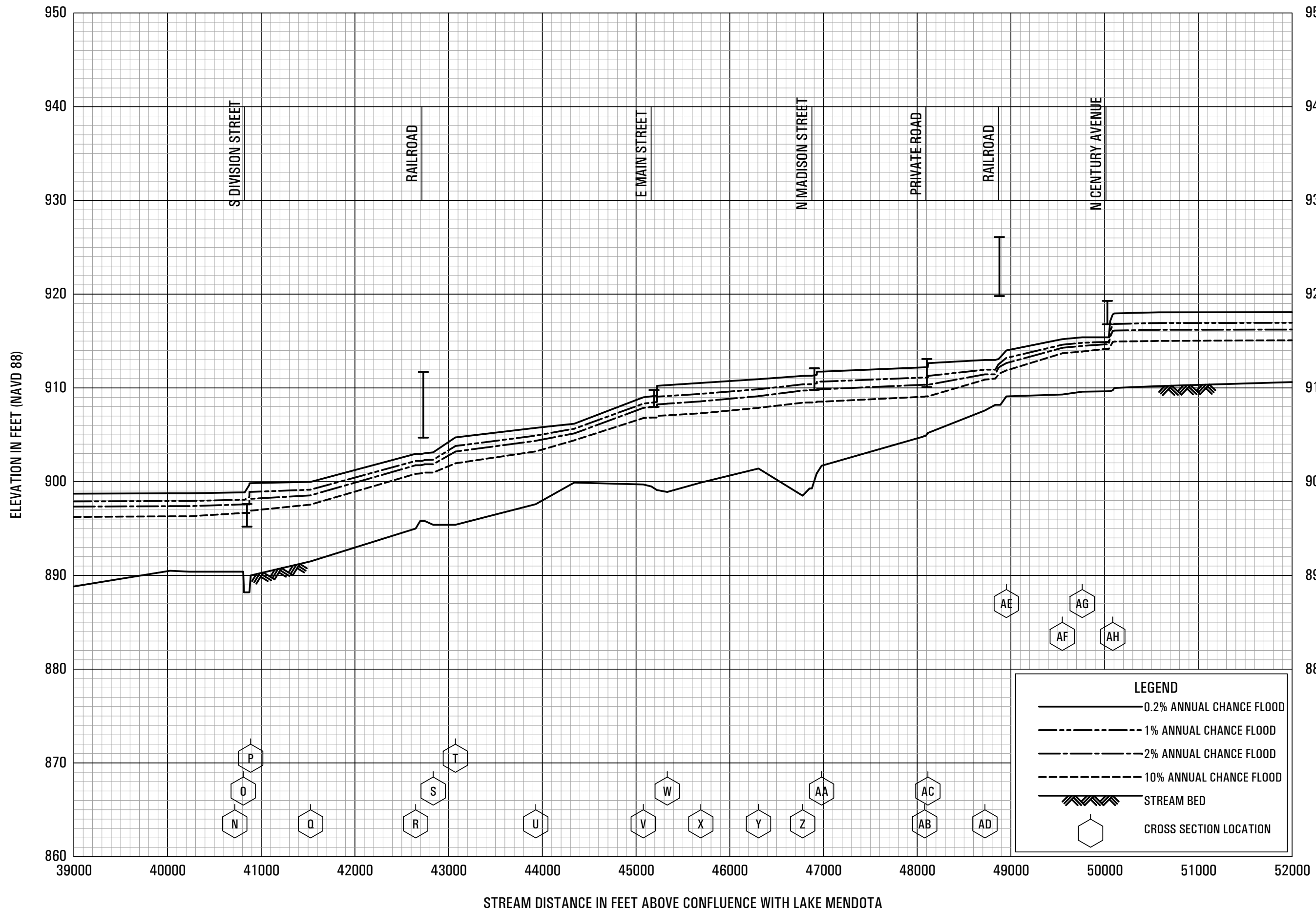
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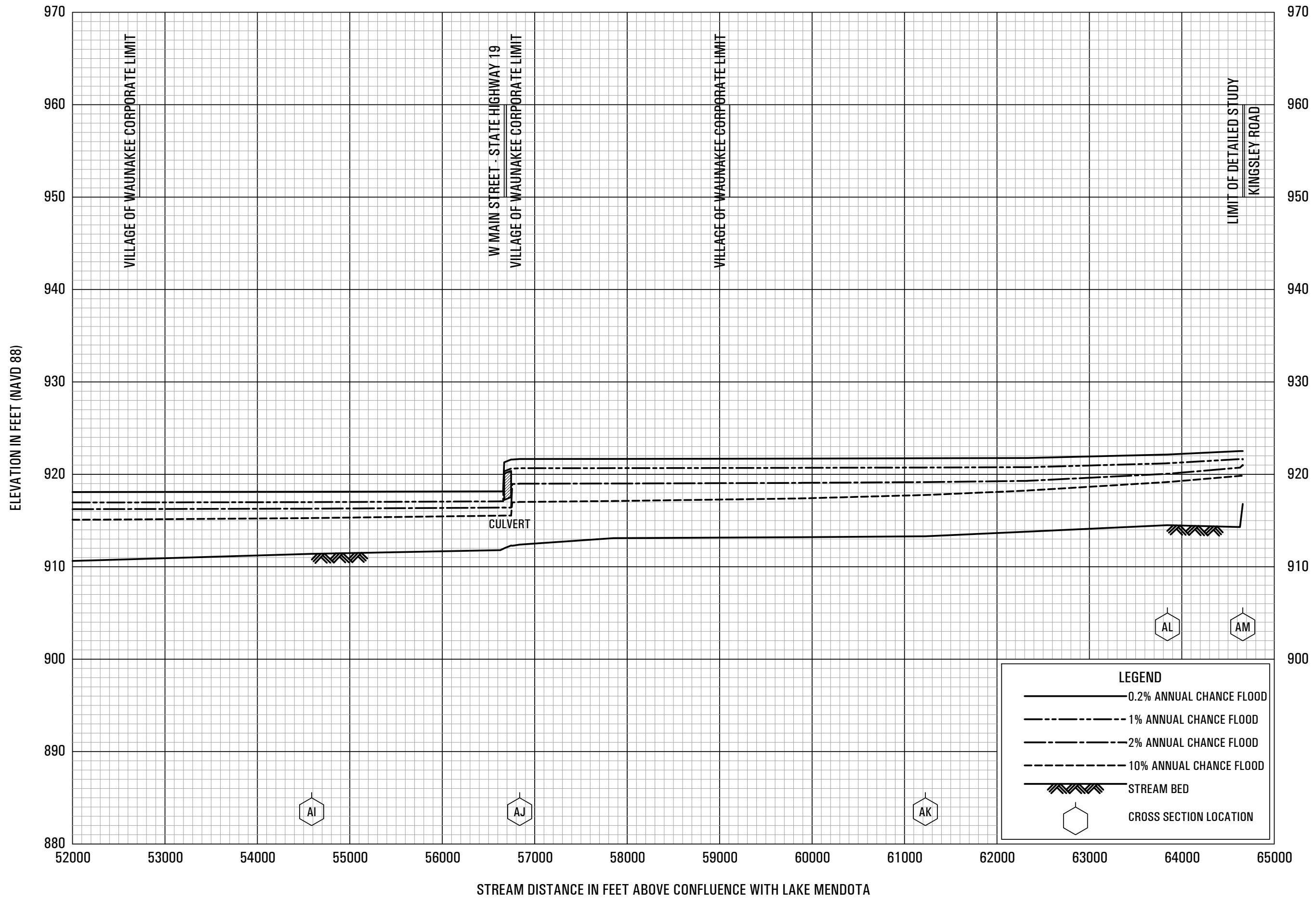


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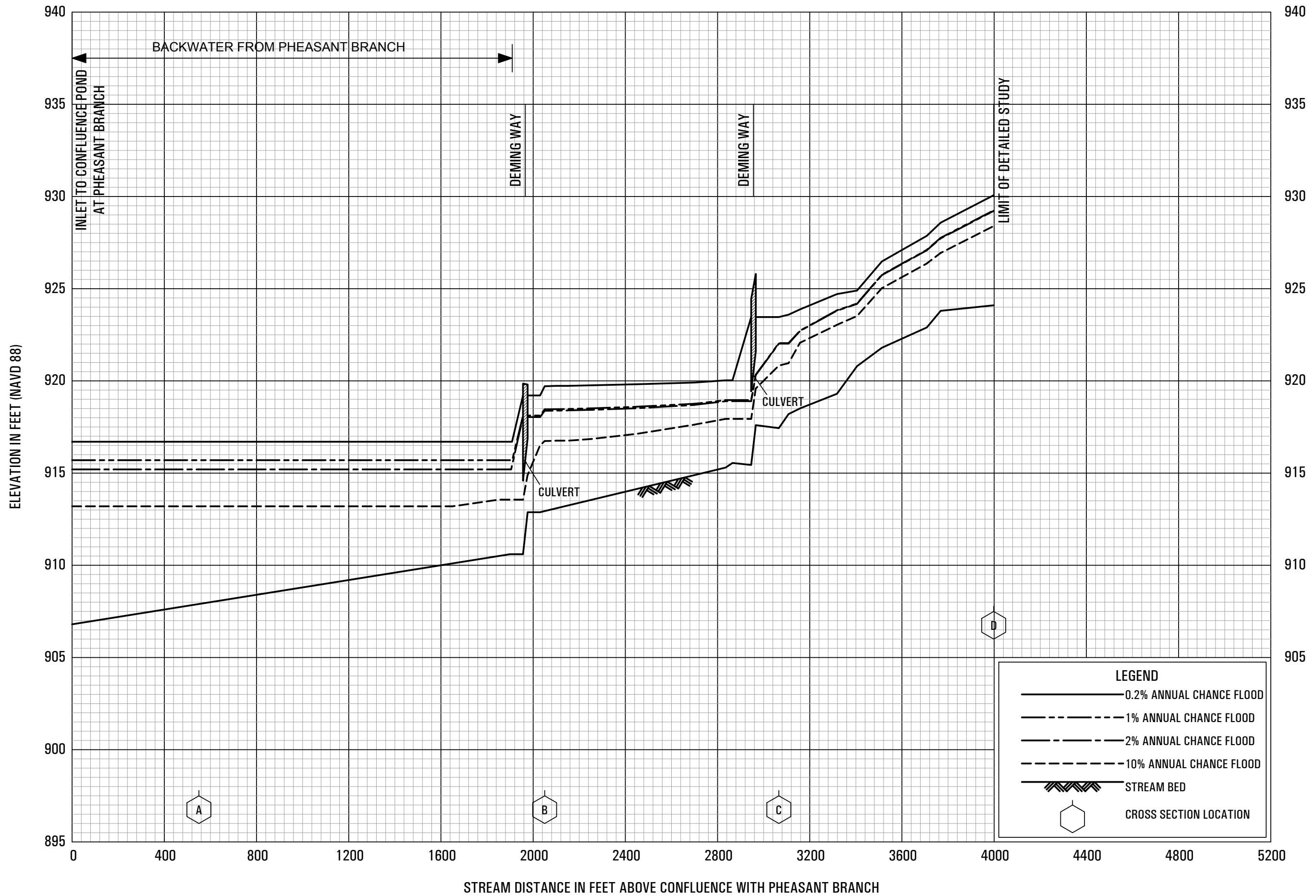
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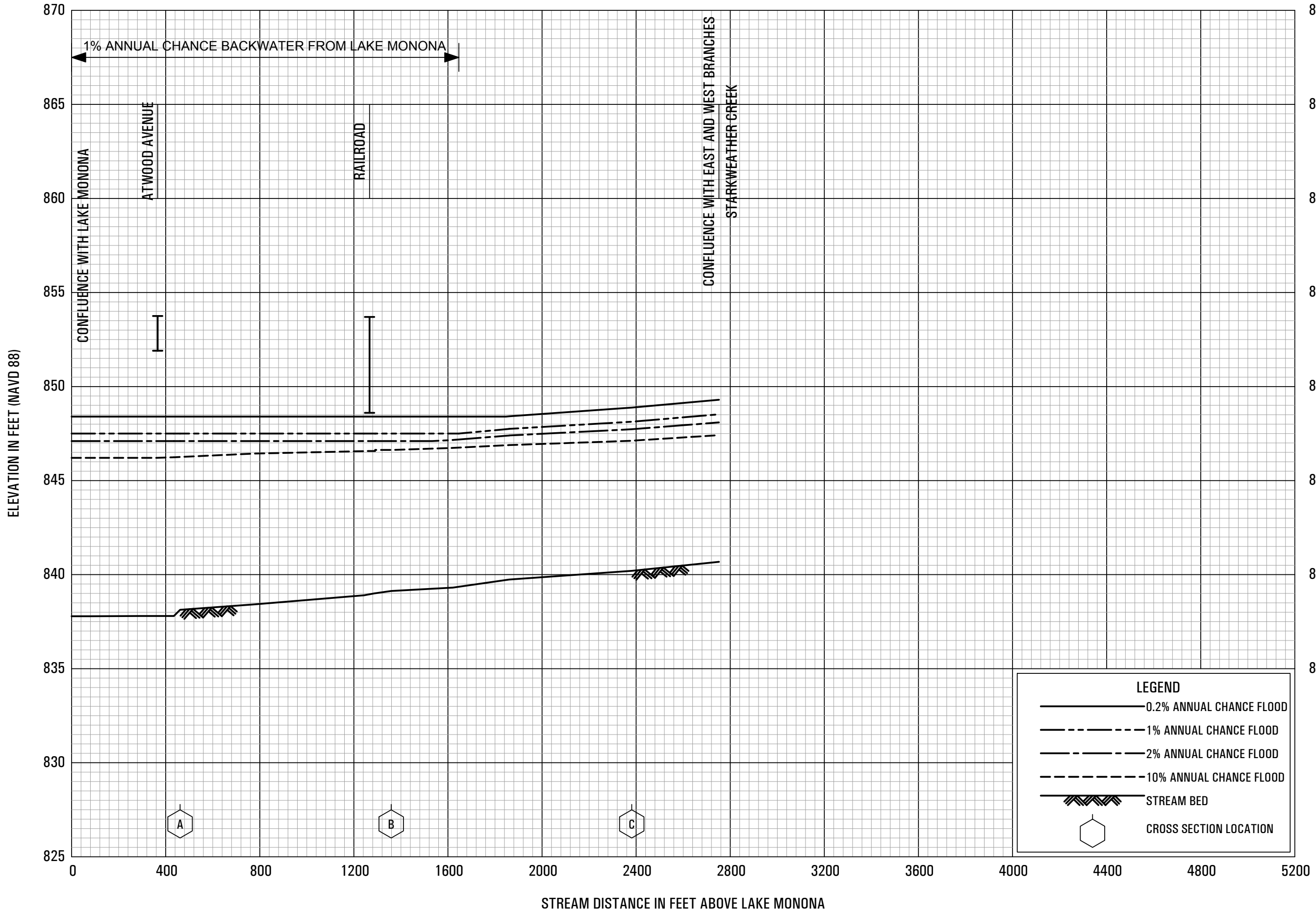


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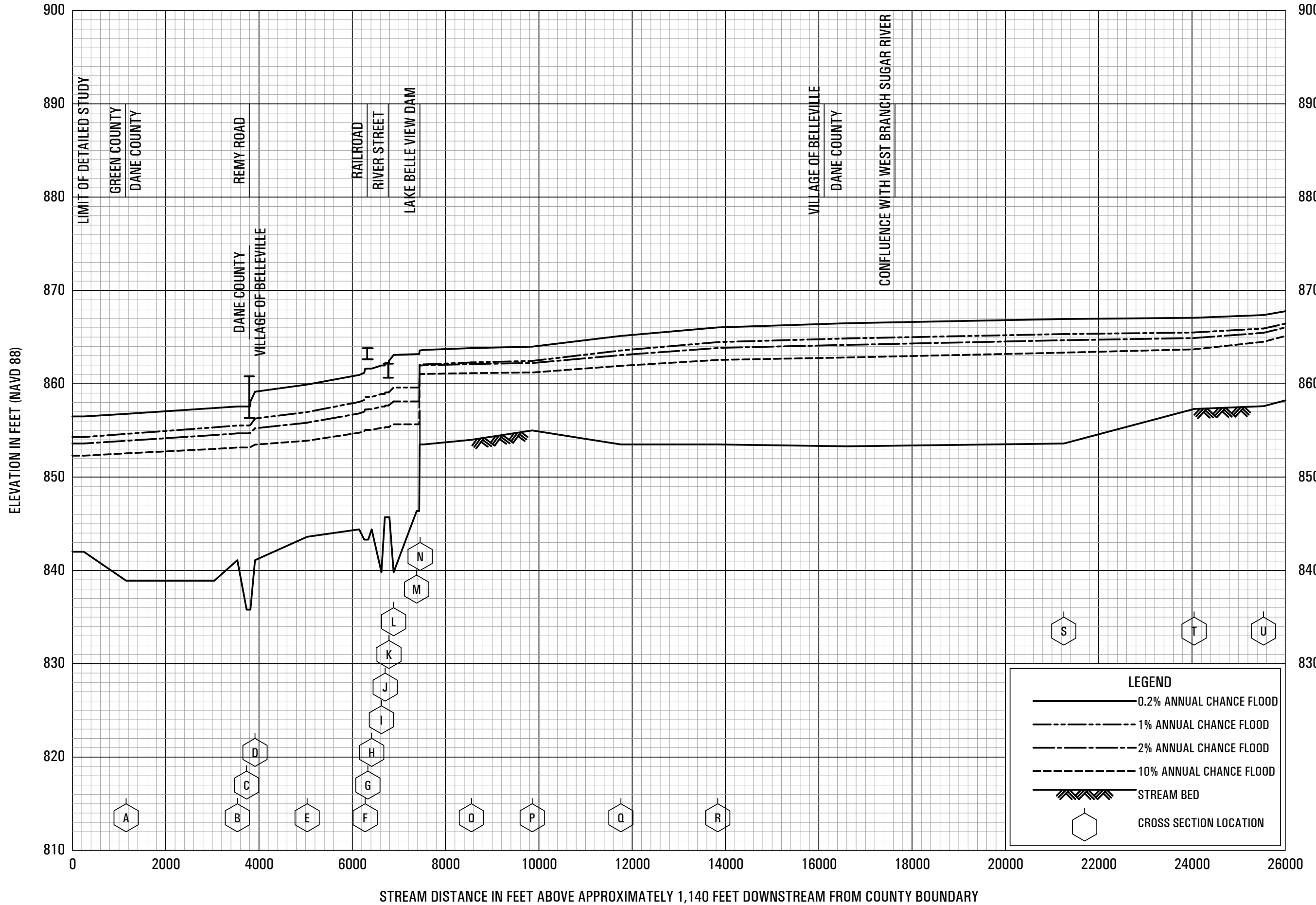
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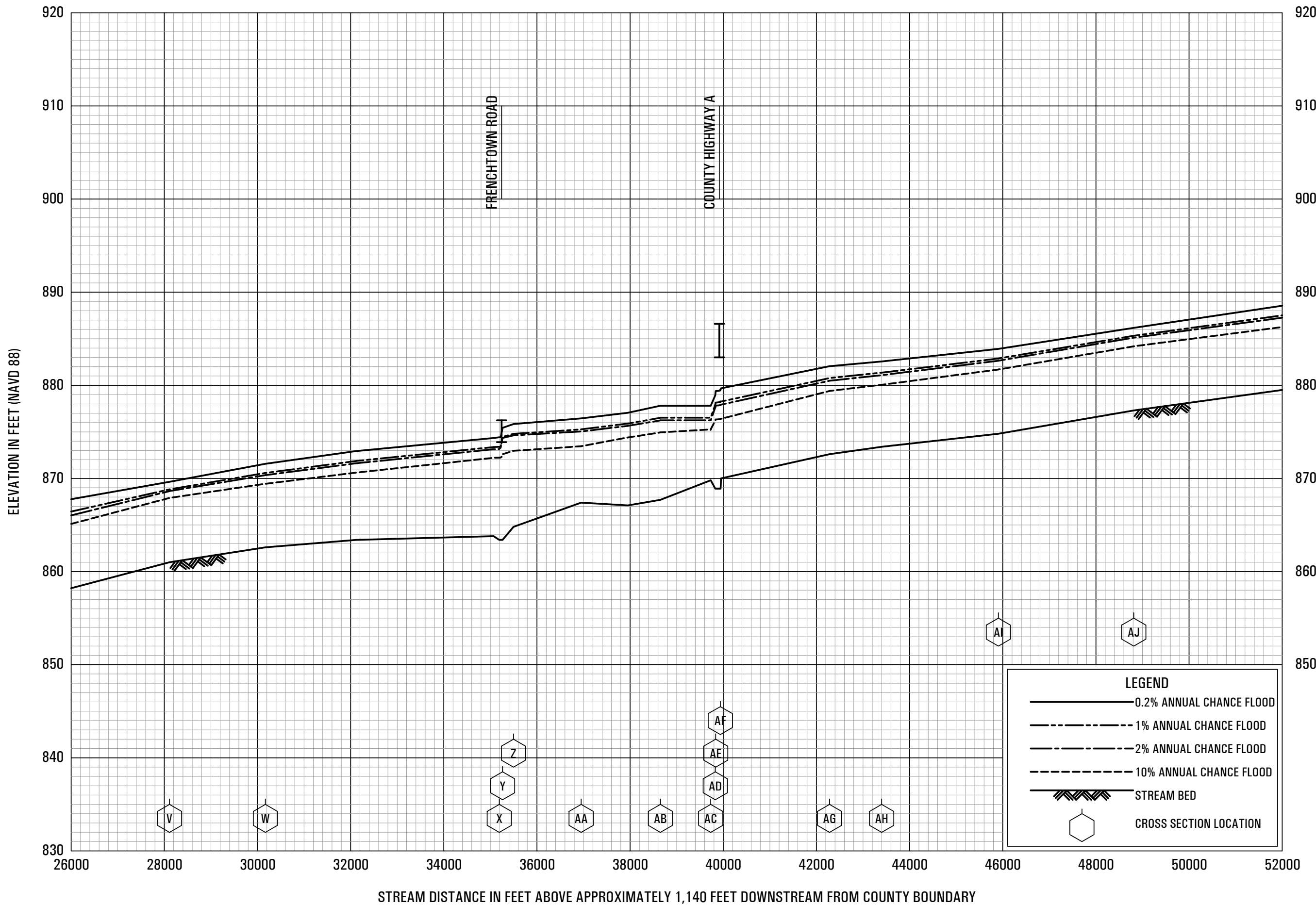


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SUGAR RIVER

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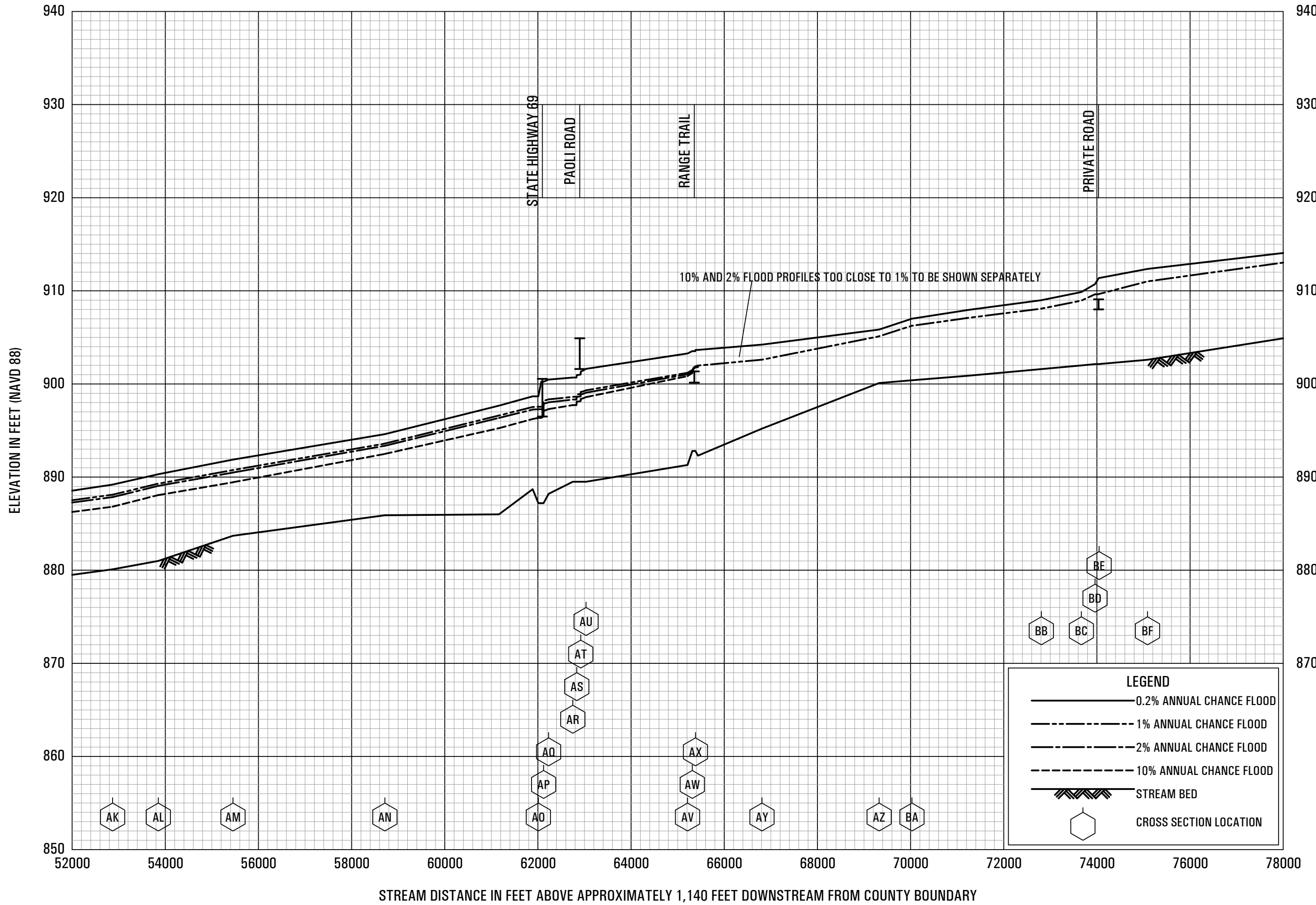
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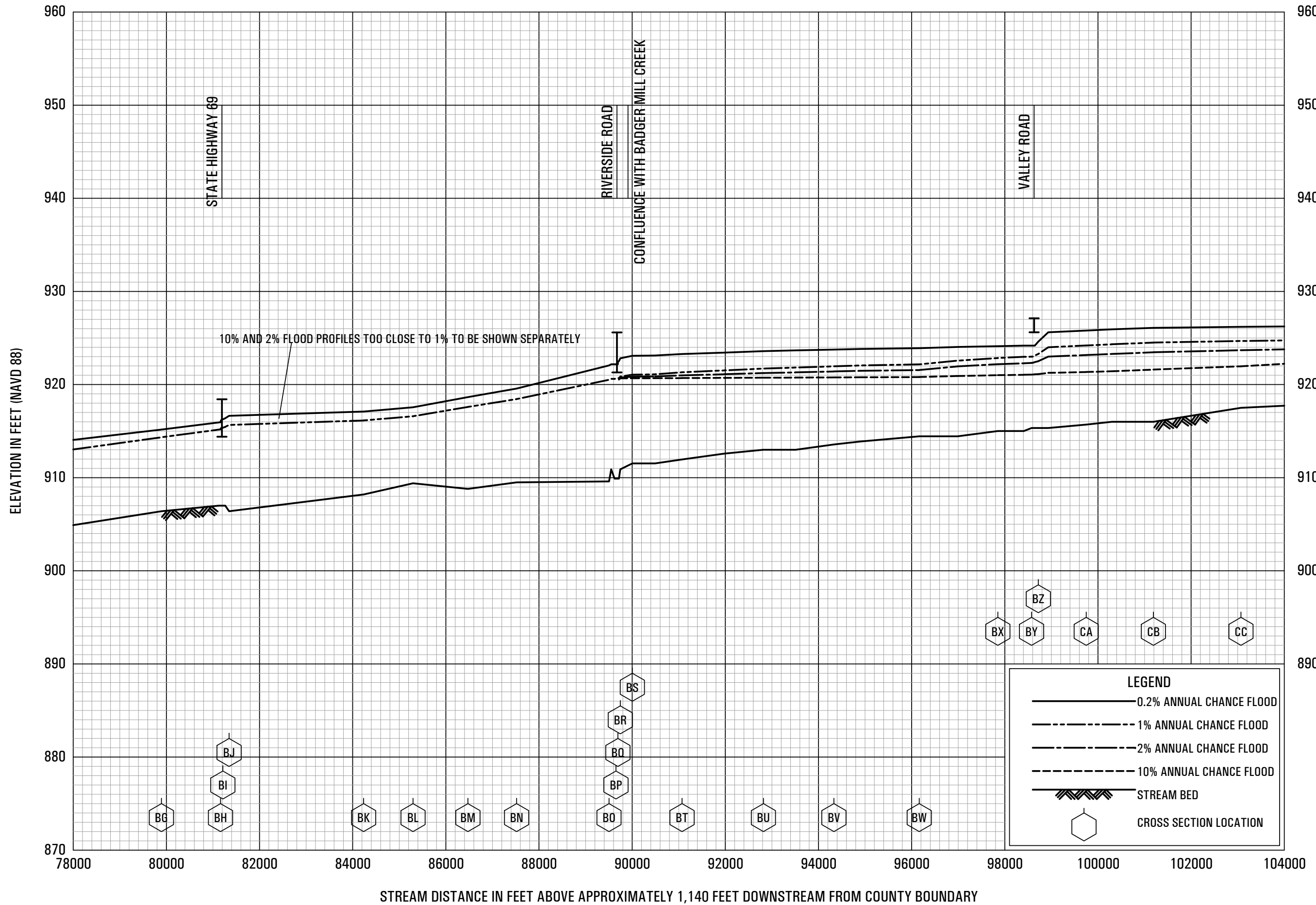
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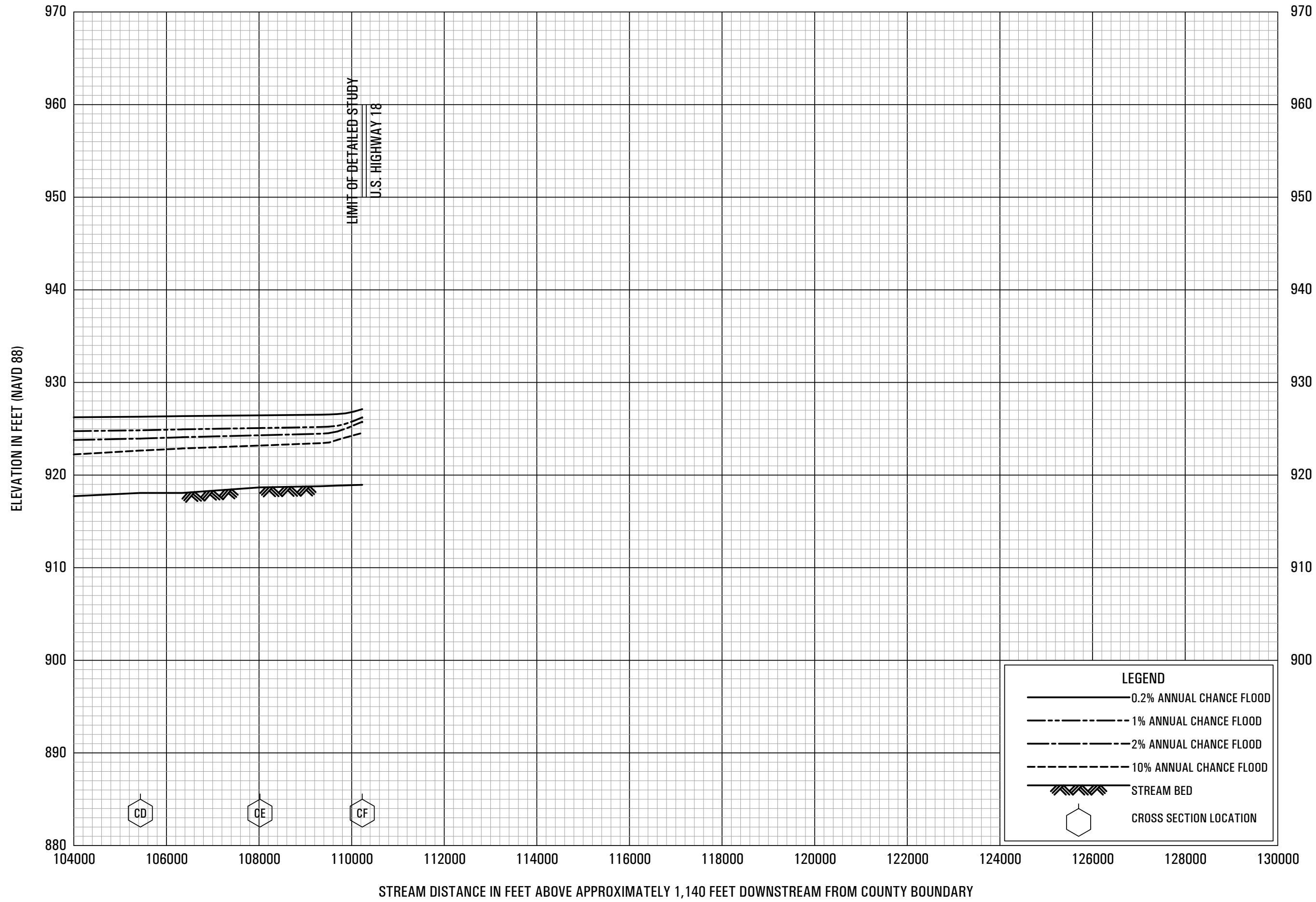


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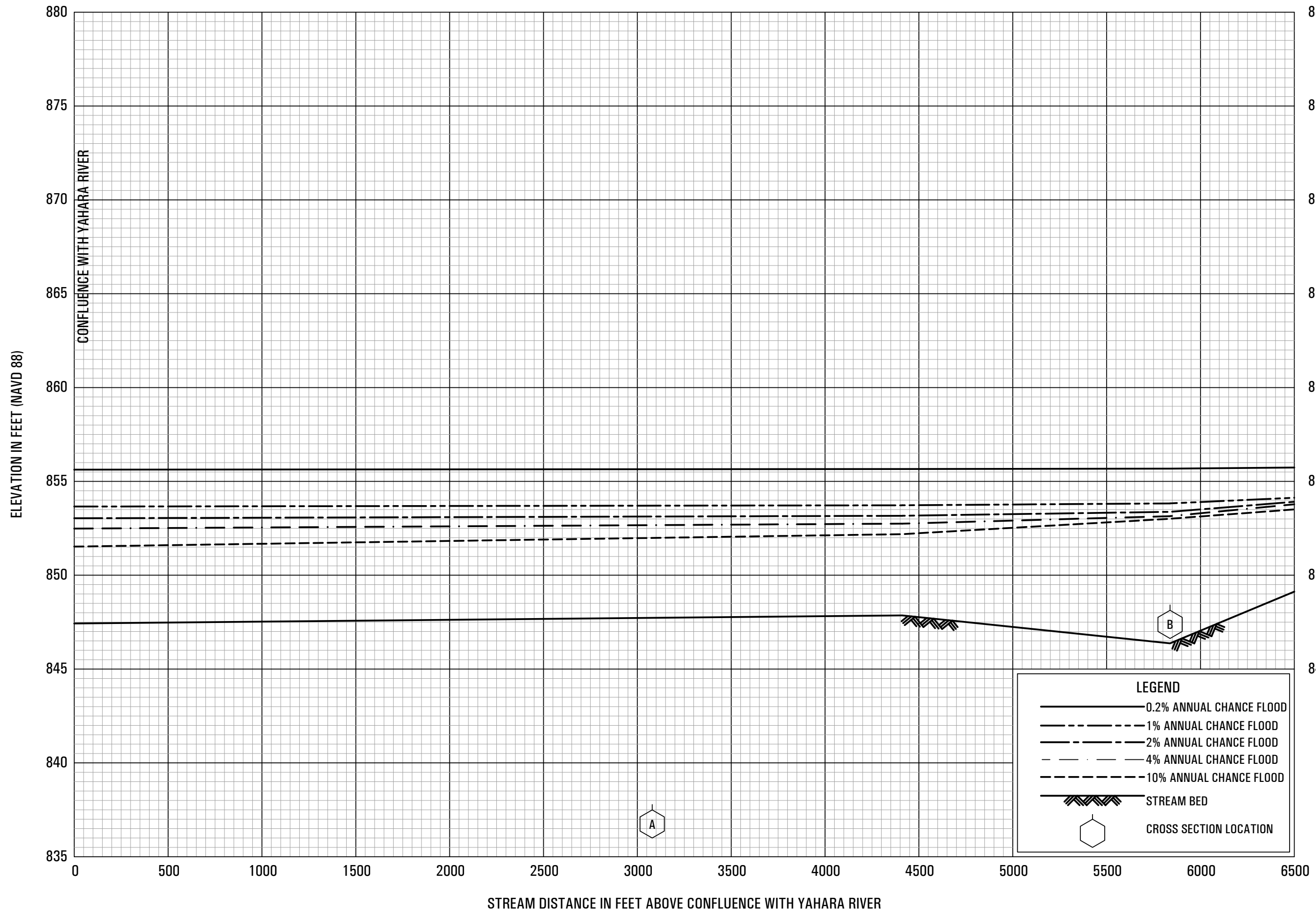
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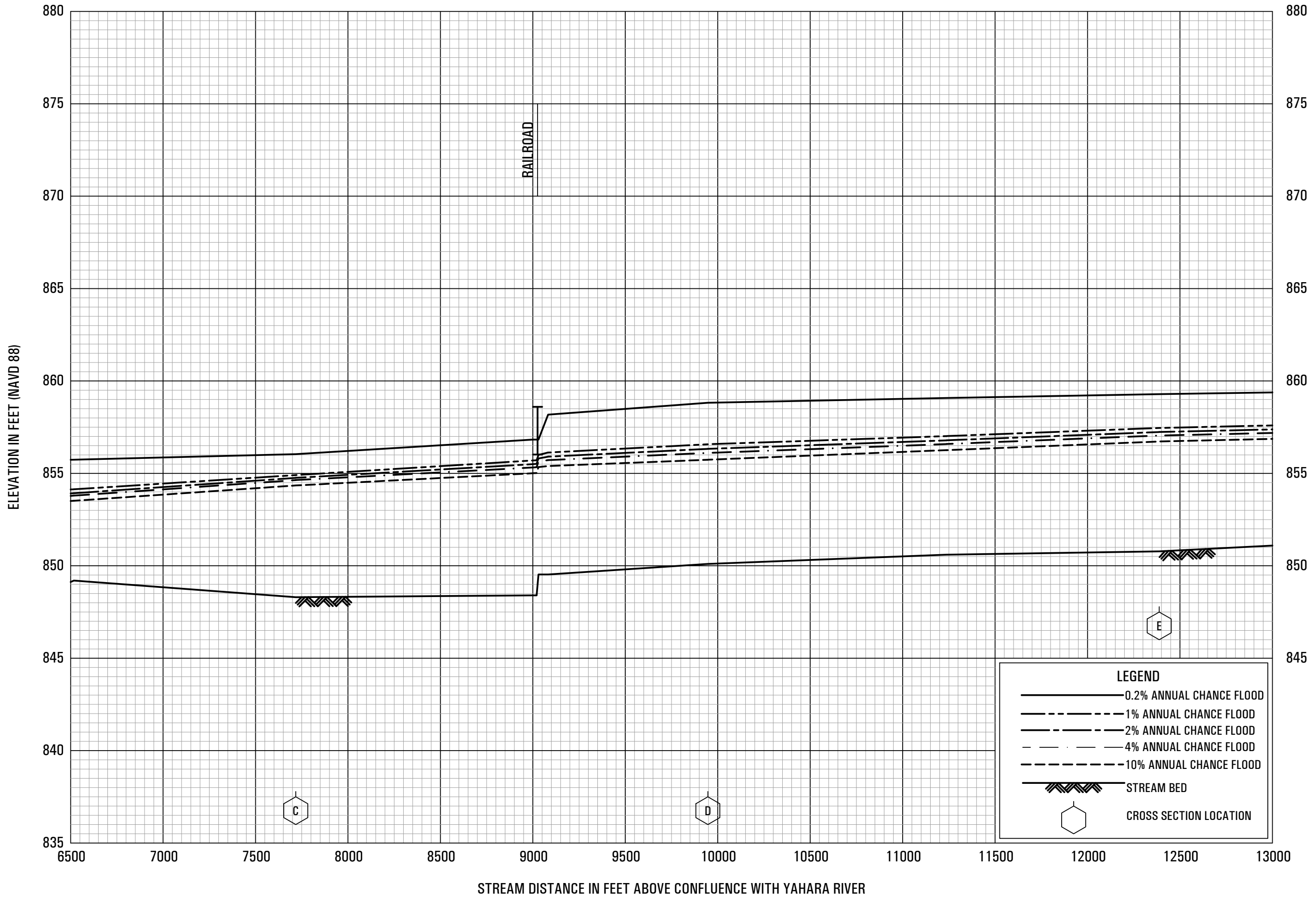
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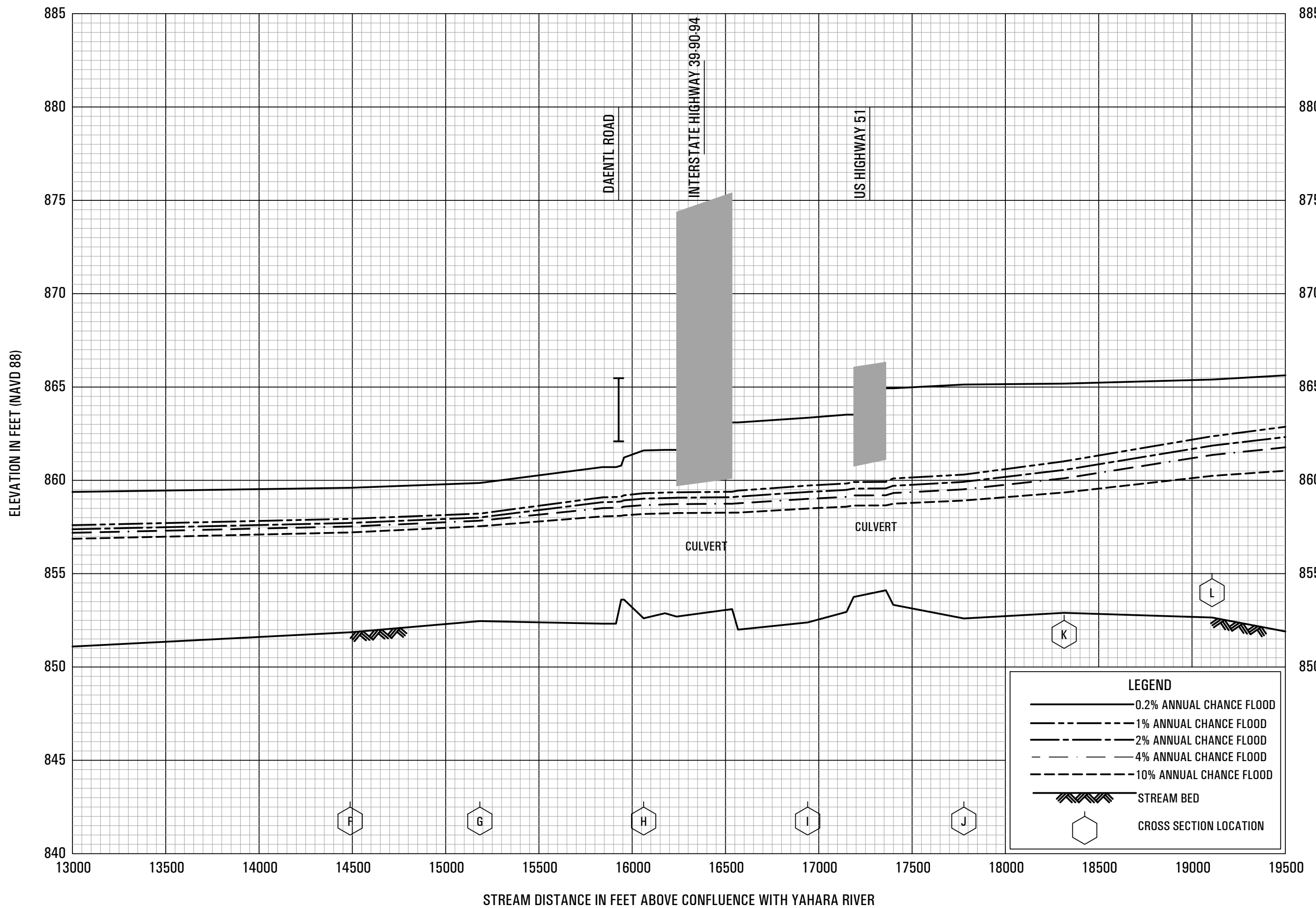


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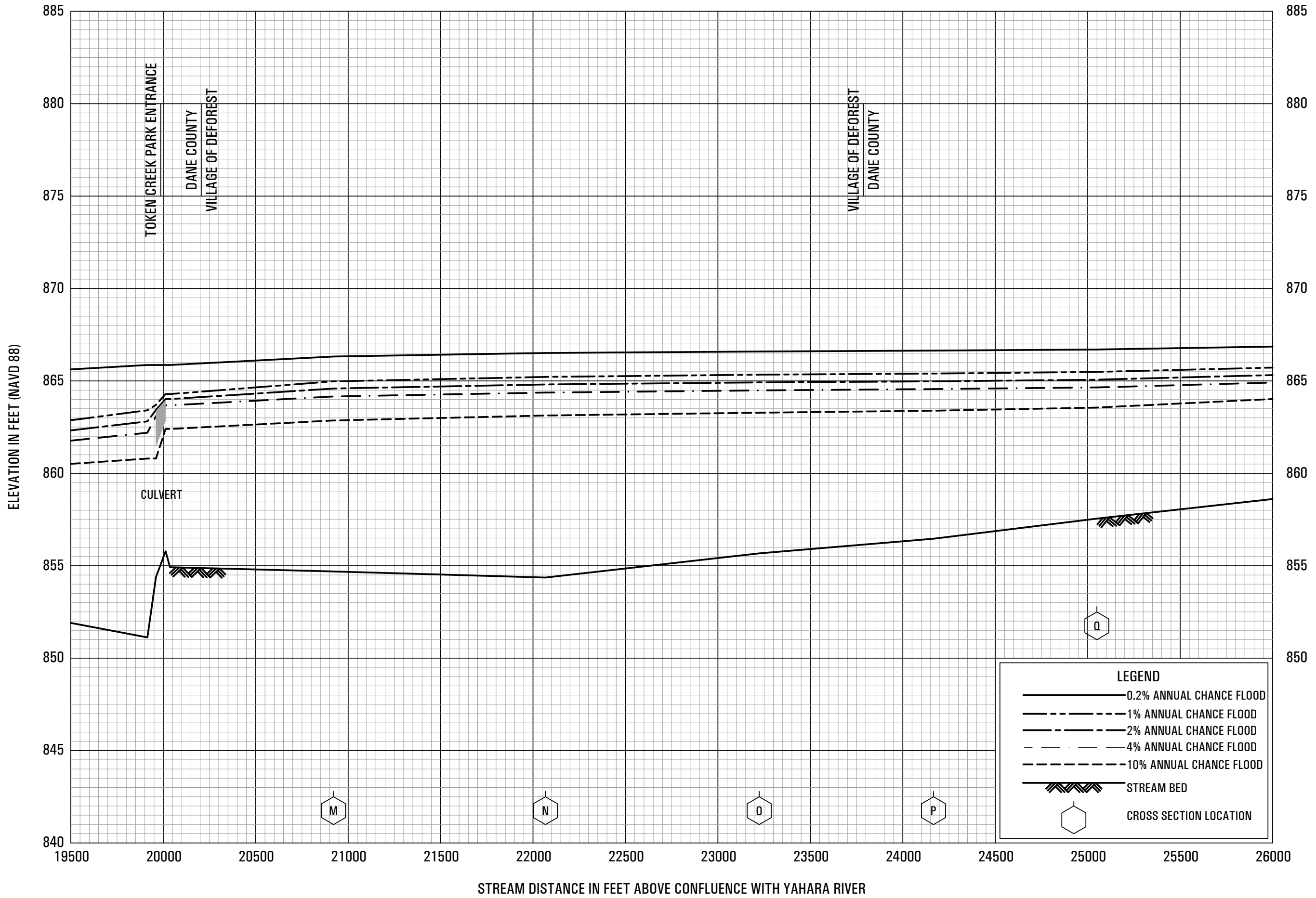


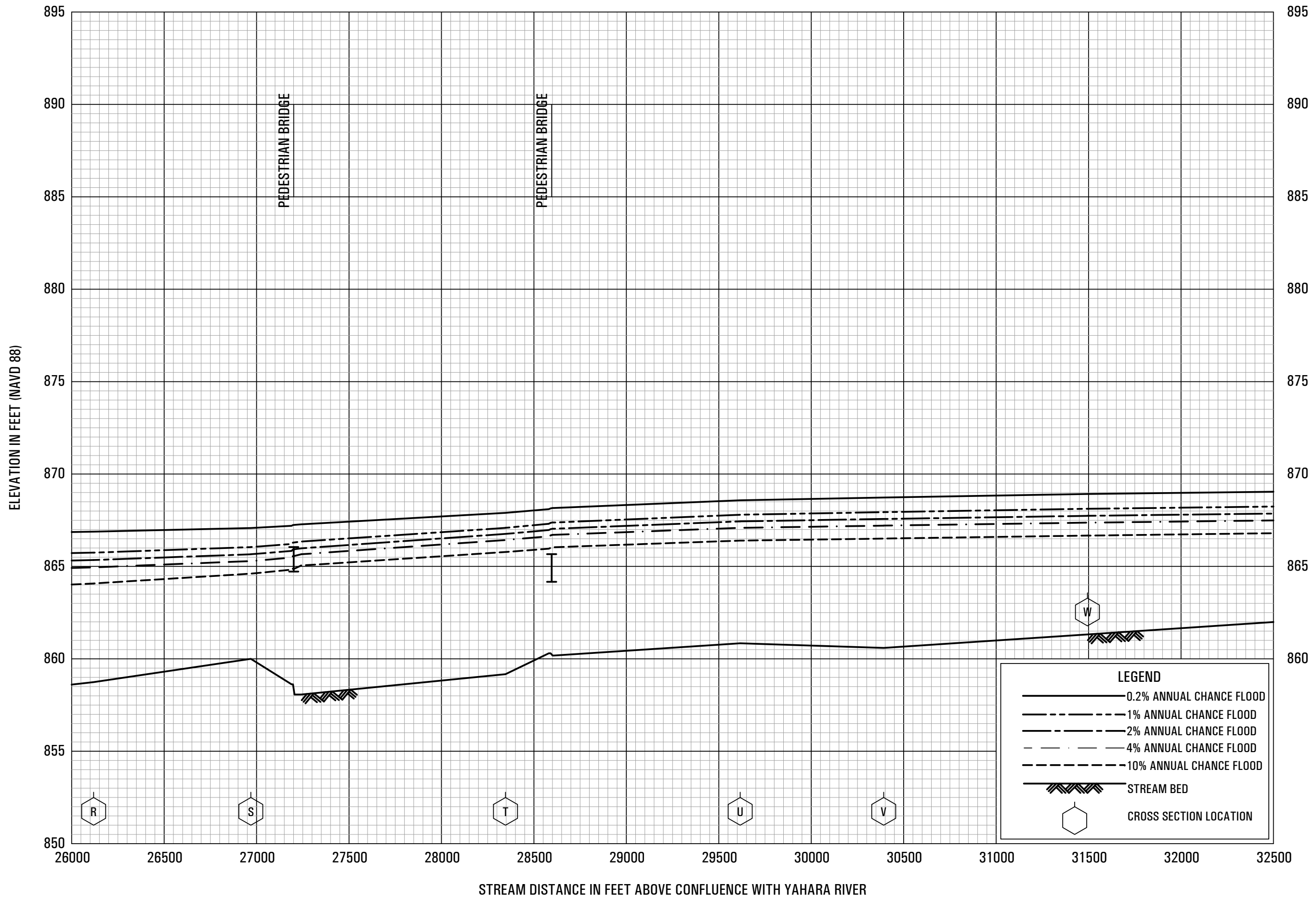
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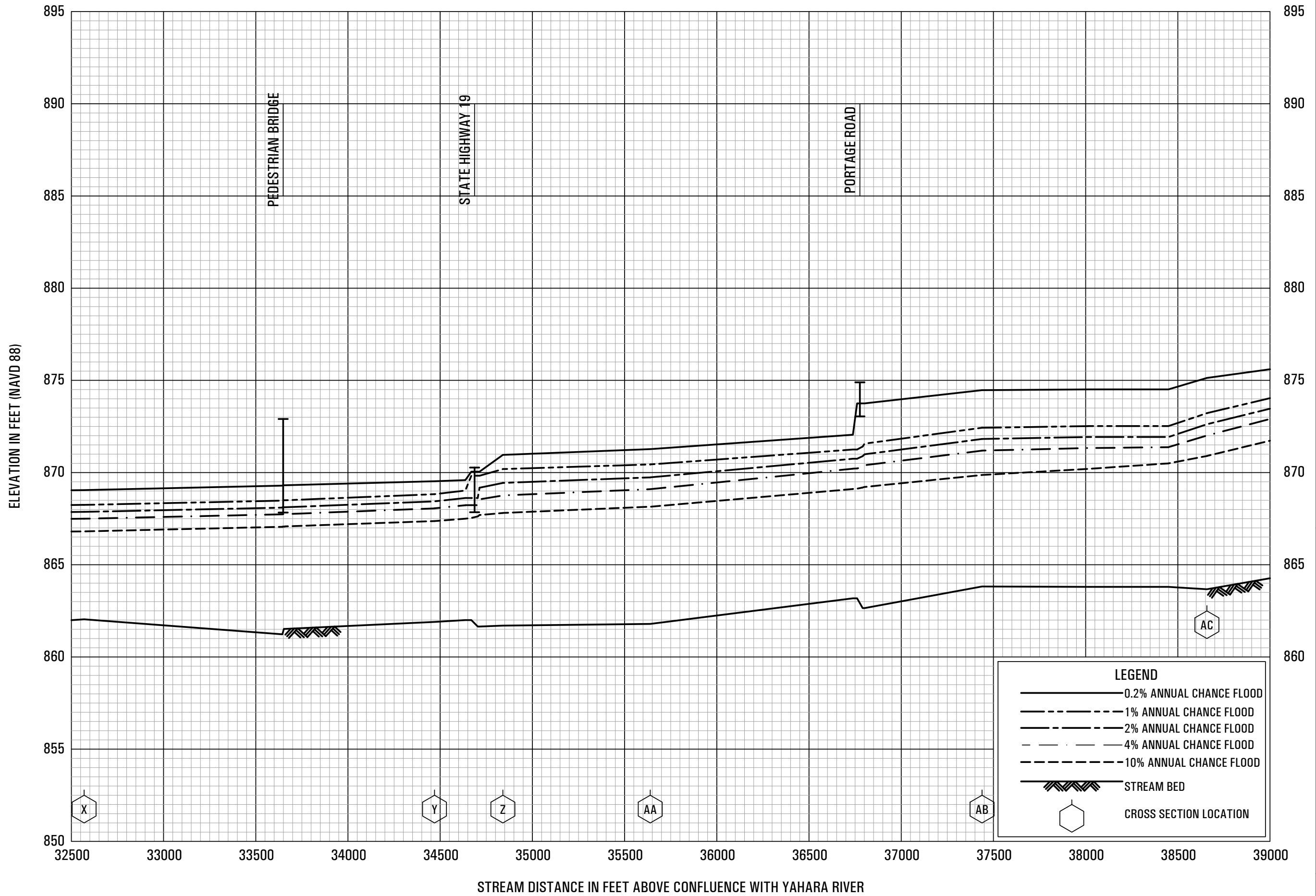


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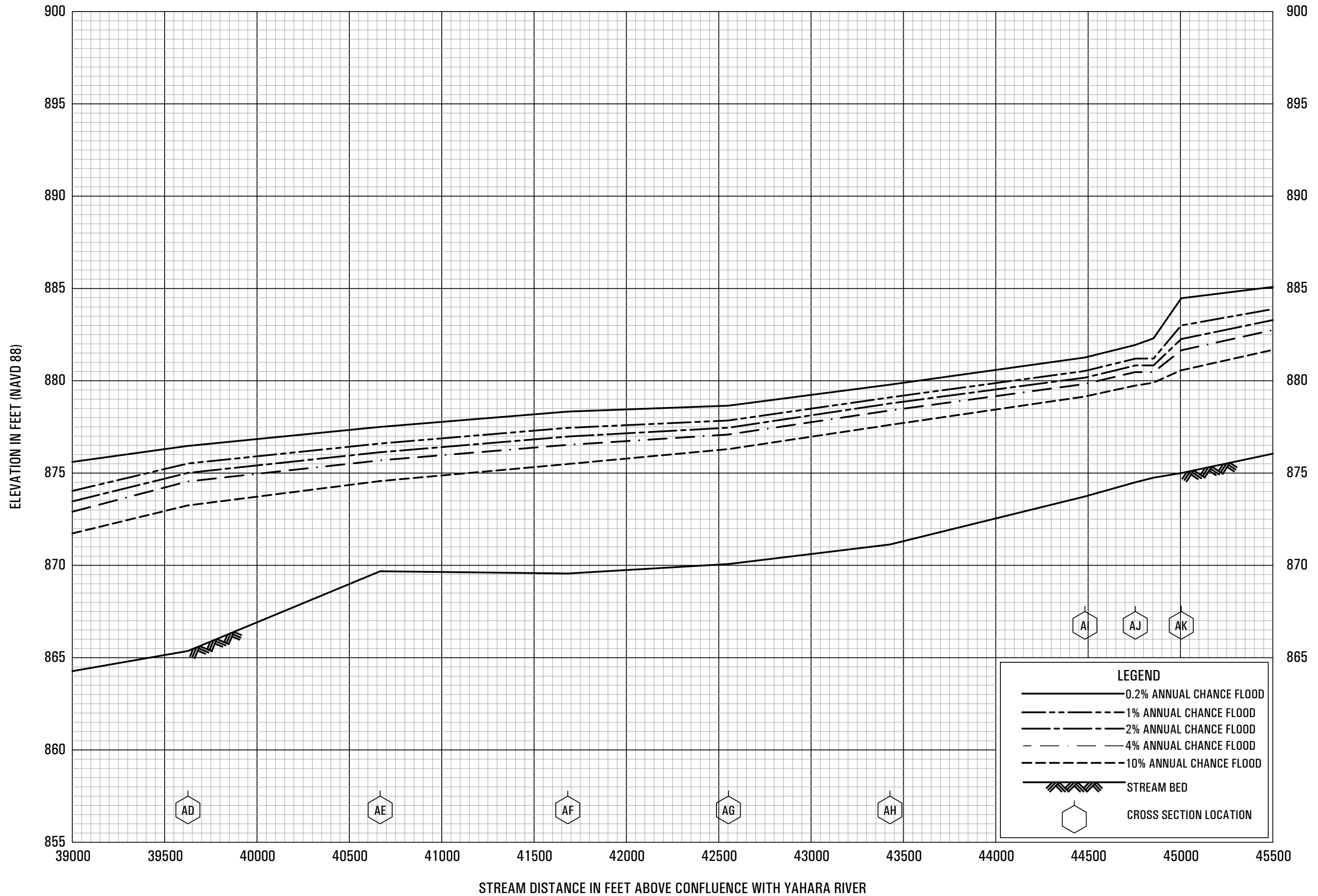


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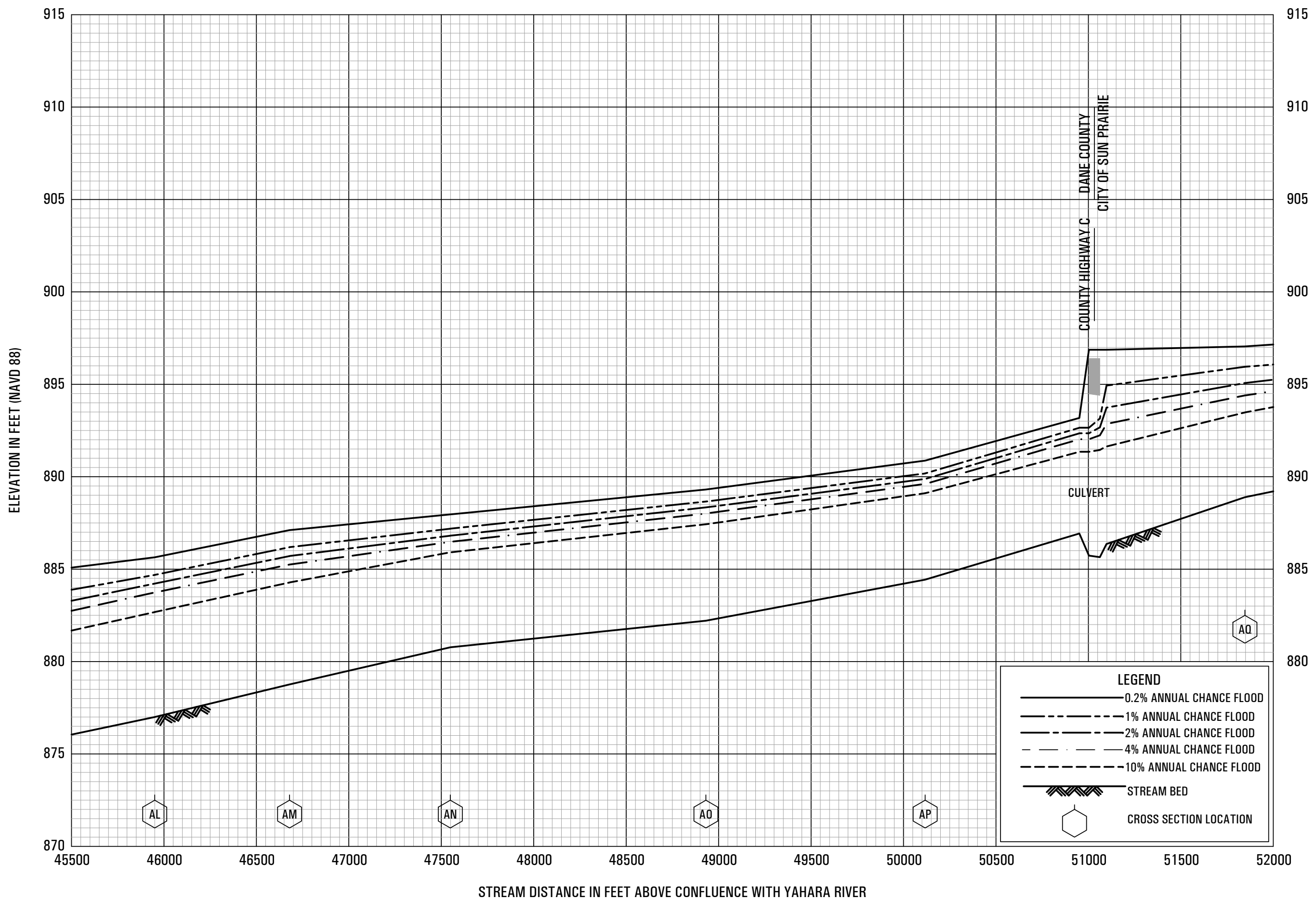
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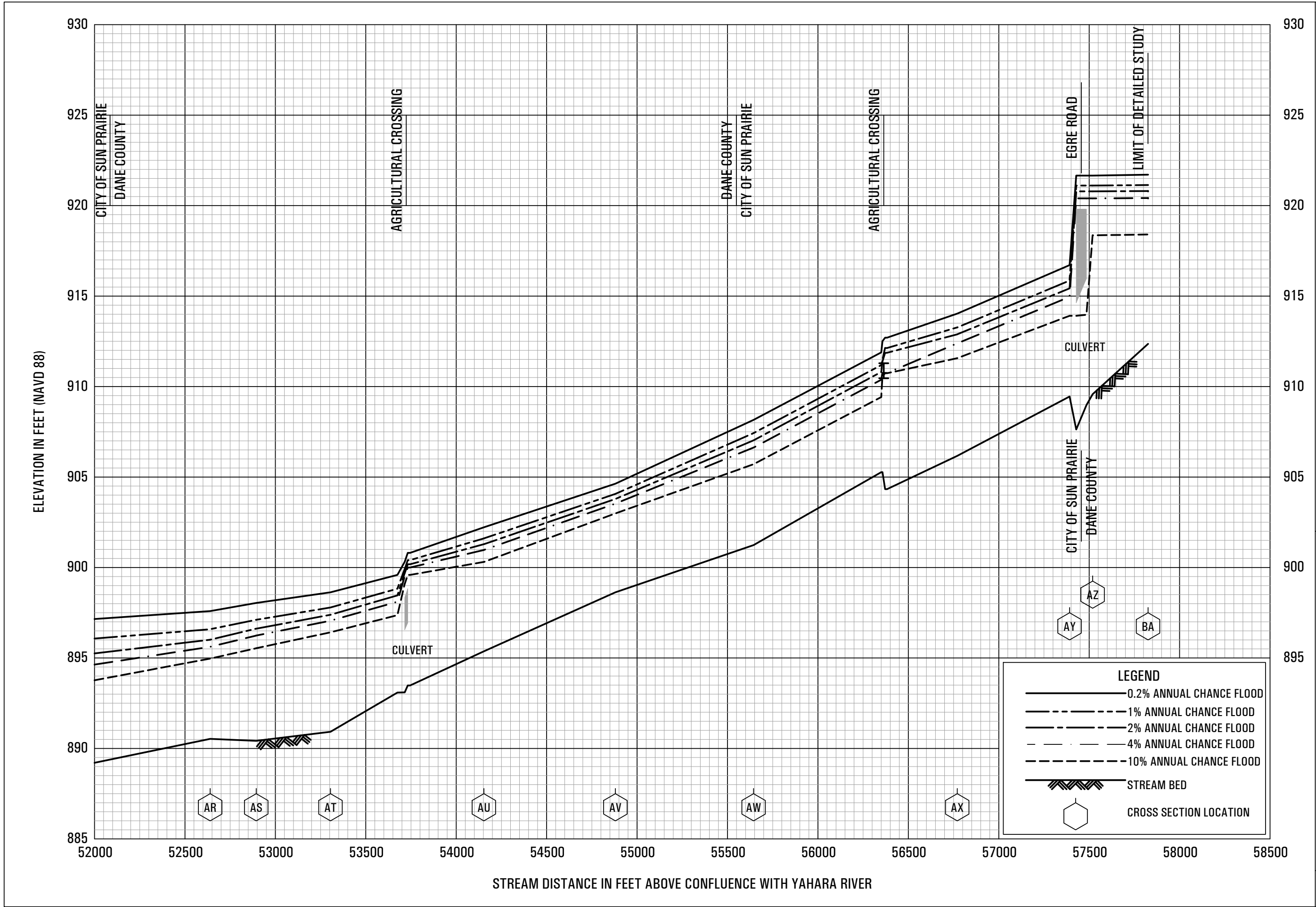
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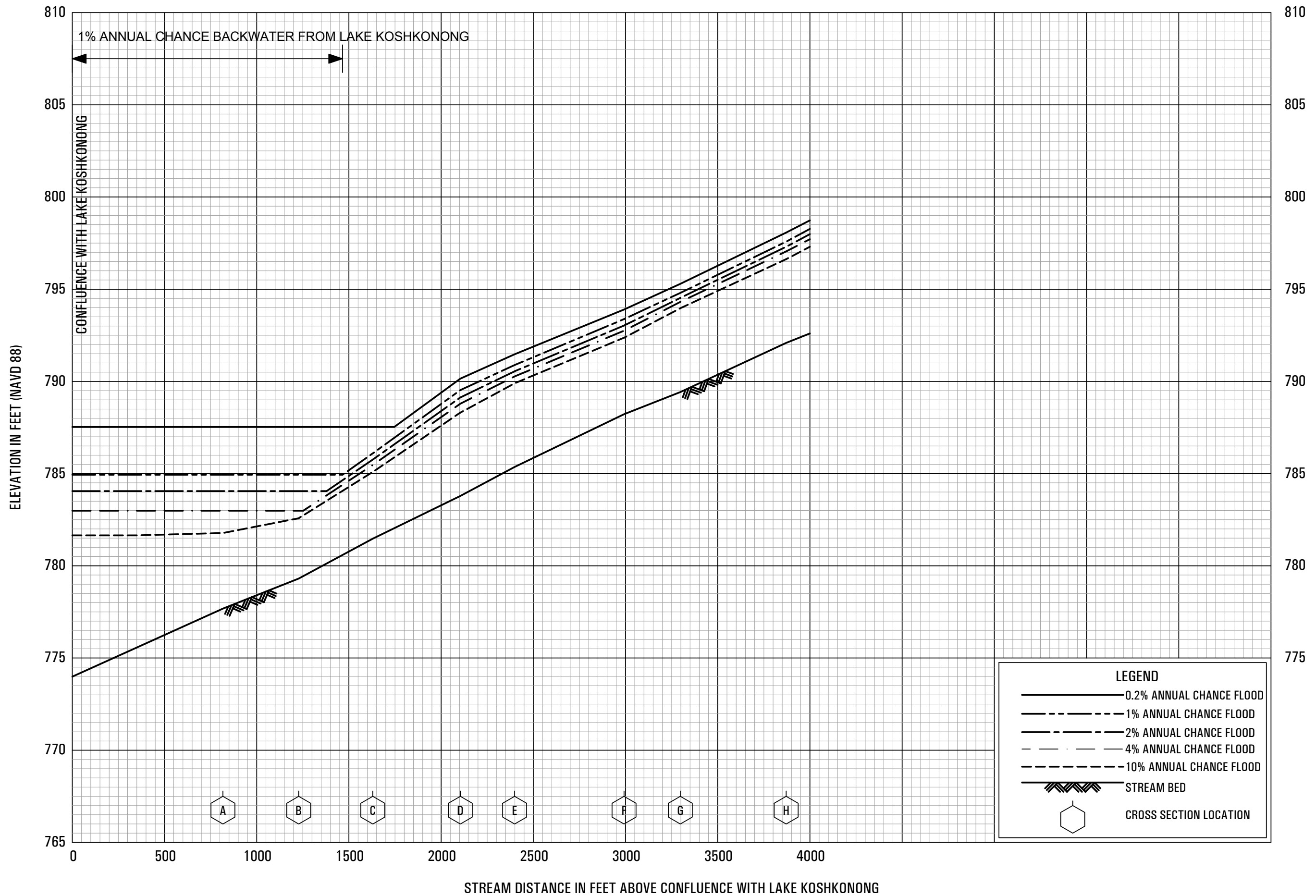
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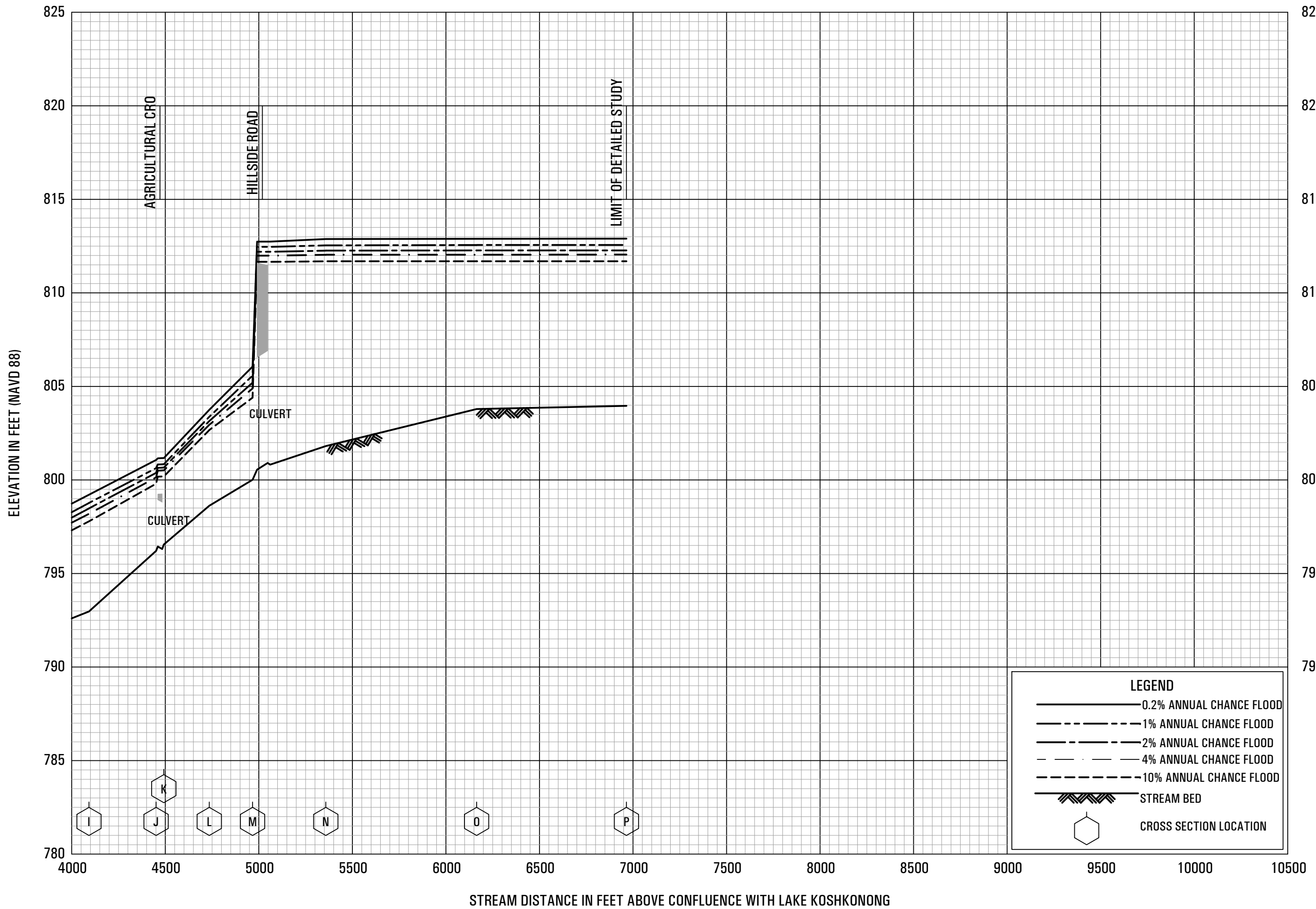
FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI

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109P



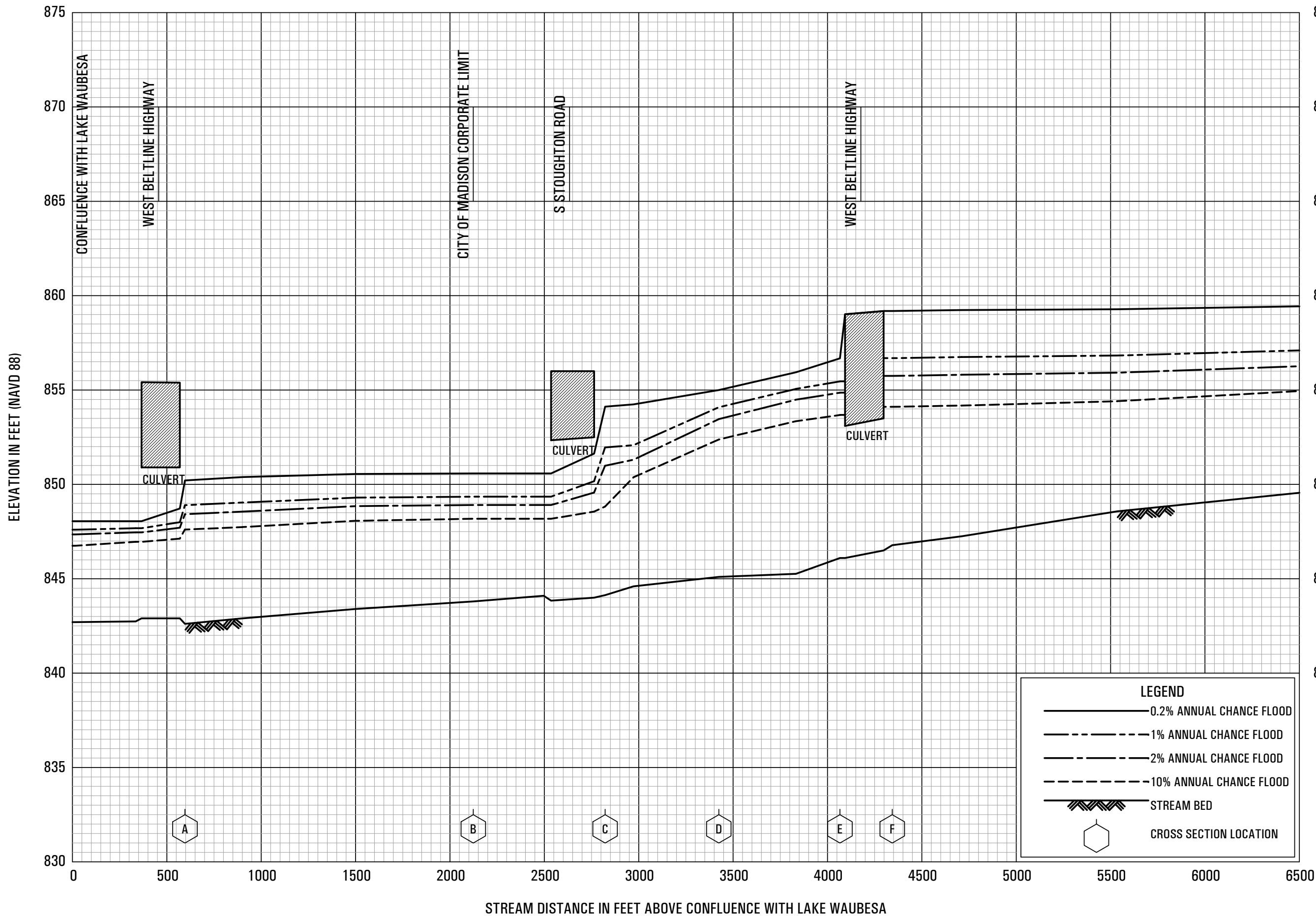


FLOOD PROFILES

UNNAMED TRIBUTARY TO LAKE KOSHKONONG

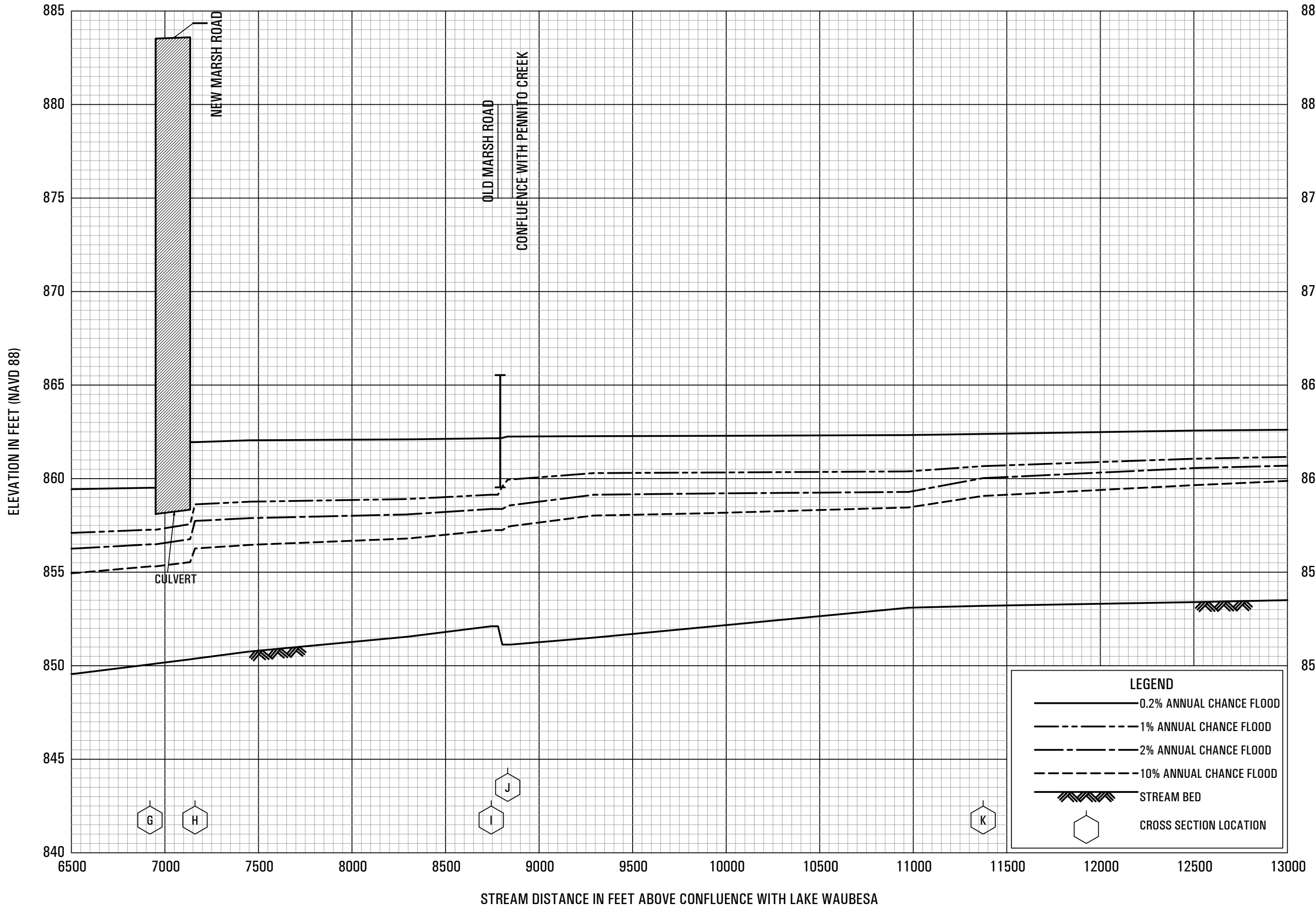
FEDERAL EMERGENCY MANAGEMENT AGENCY

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FLOOD PROFILES
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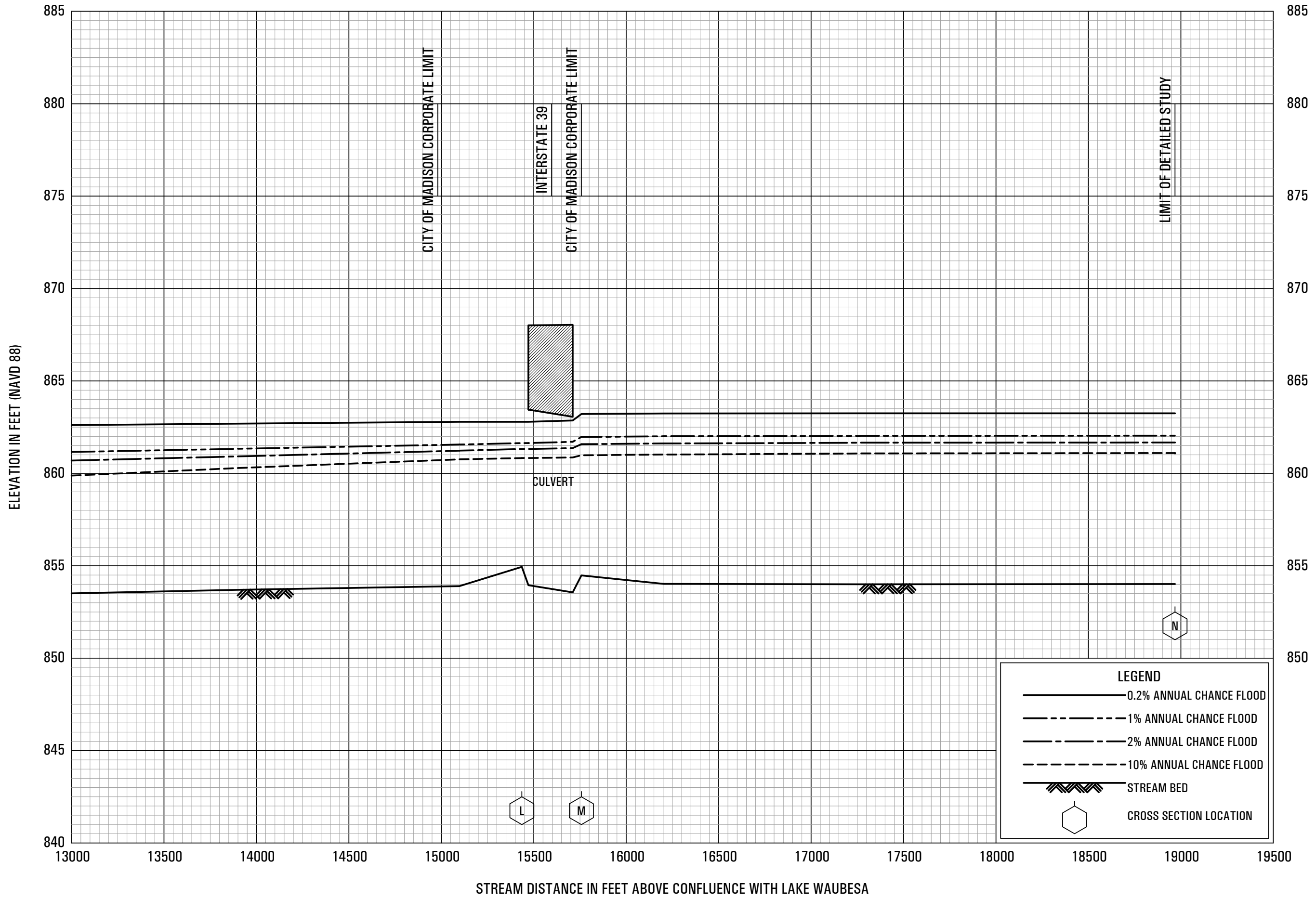


FLOOD PROFILES

UNNAMED TRIBUTARY TO LAKE WAUBESA

FEDERAL EMERGENCY MANAGEMENT AGENCY

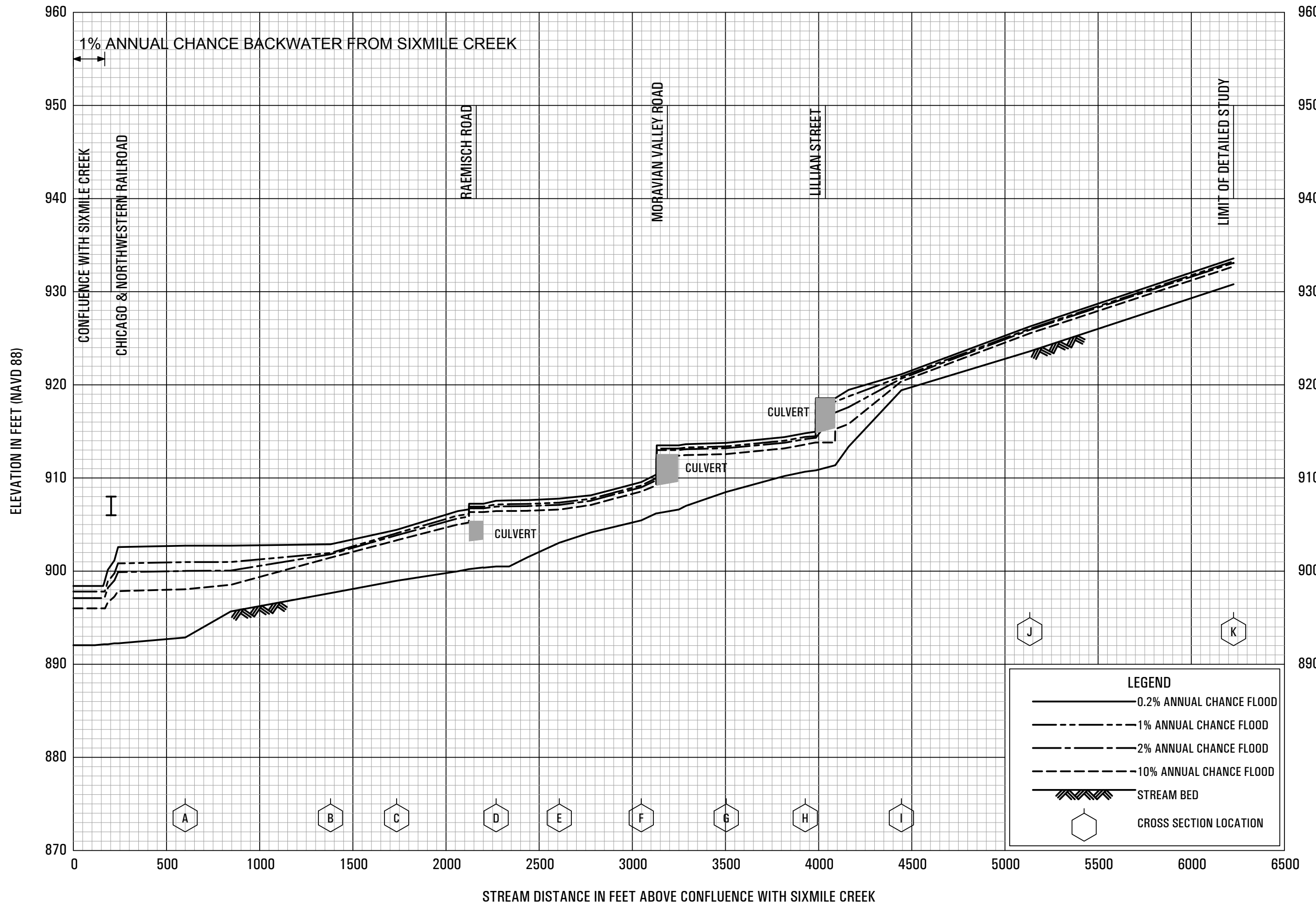
DANE COUNTY, WI
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FLOOD PROFILES
UNNAMED TRIBUTARY TO LAKE WAUBESA

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
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114P

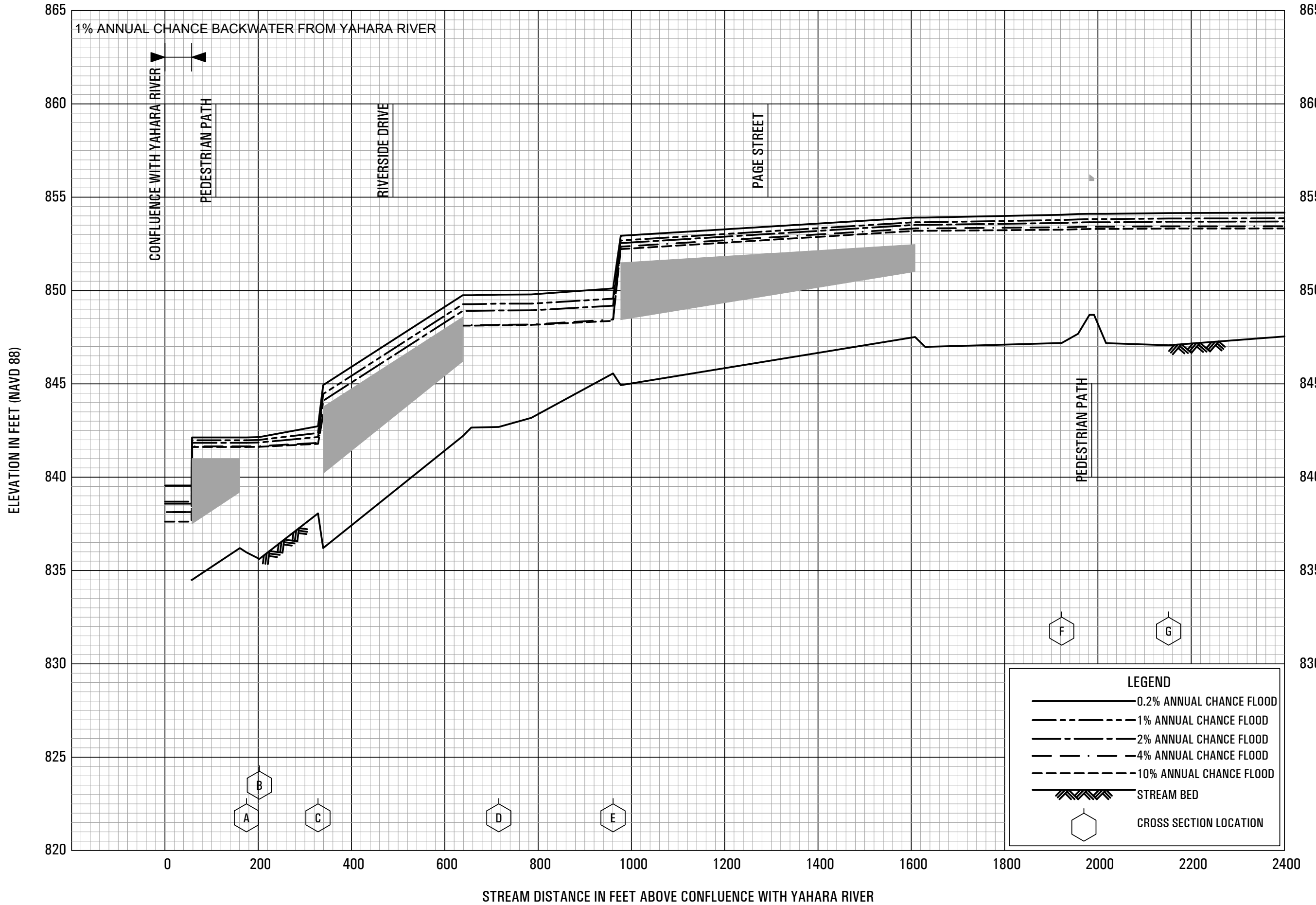


FLOOD PROFILES

UNNAMED TRIBUTARY TO SIXMILE CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

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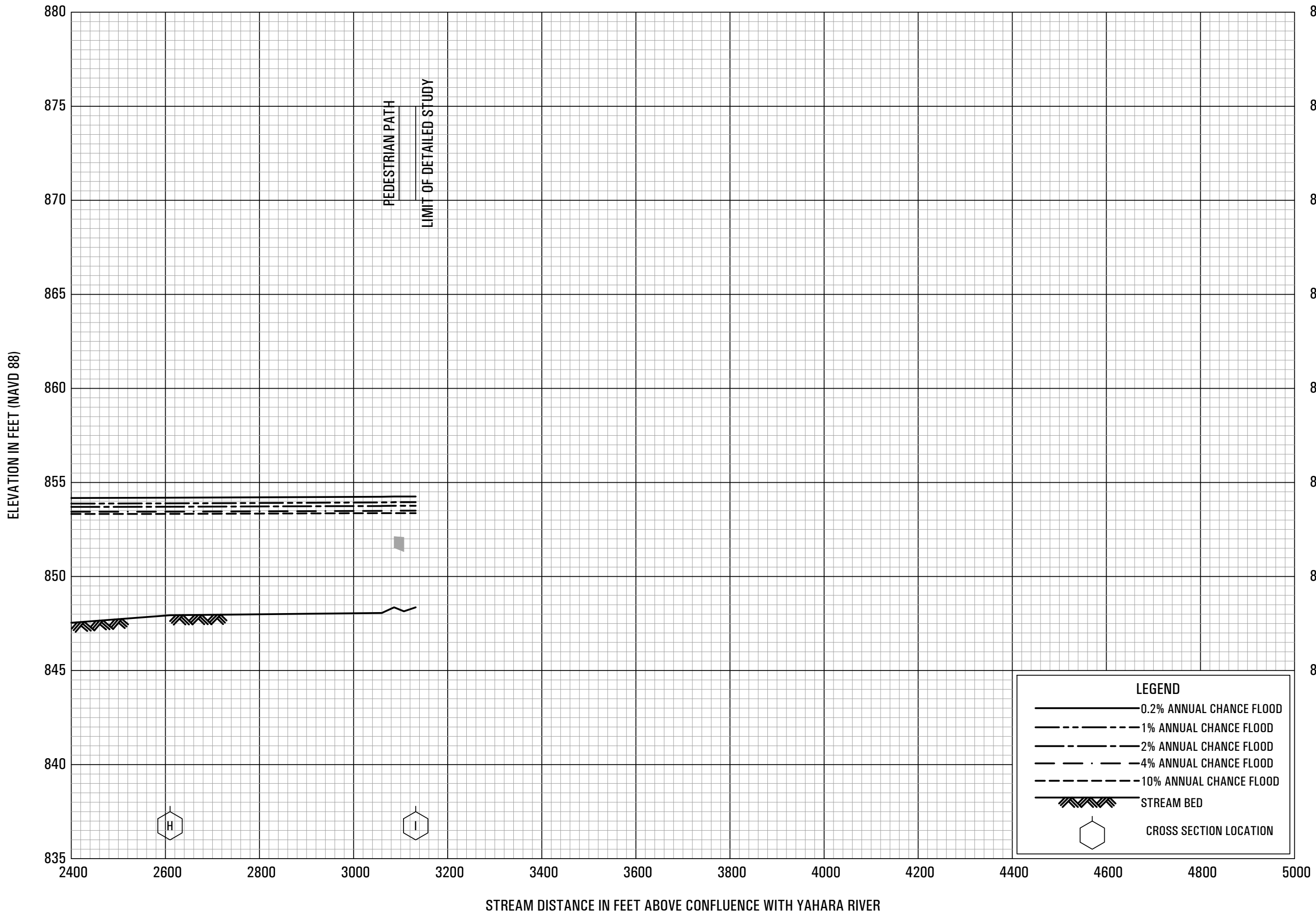


FLOOD PROFILES

UNNAMED TRIBUTARY TO YAHARA RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

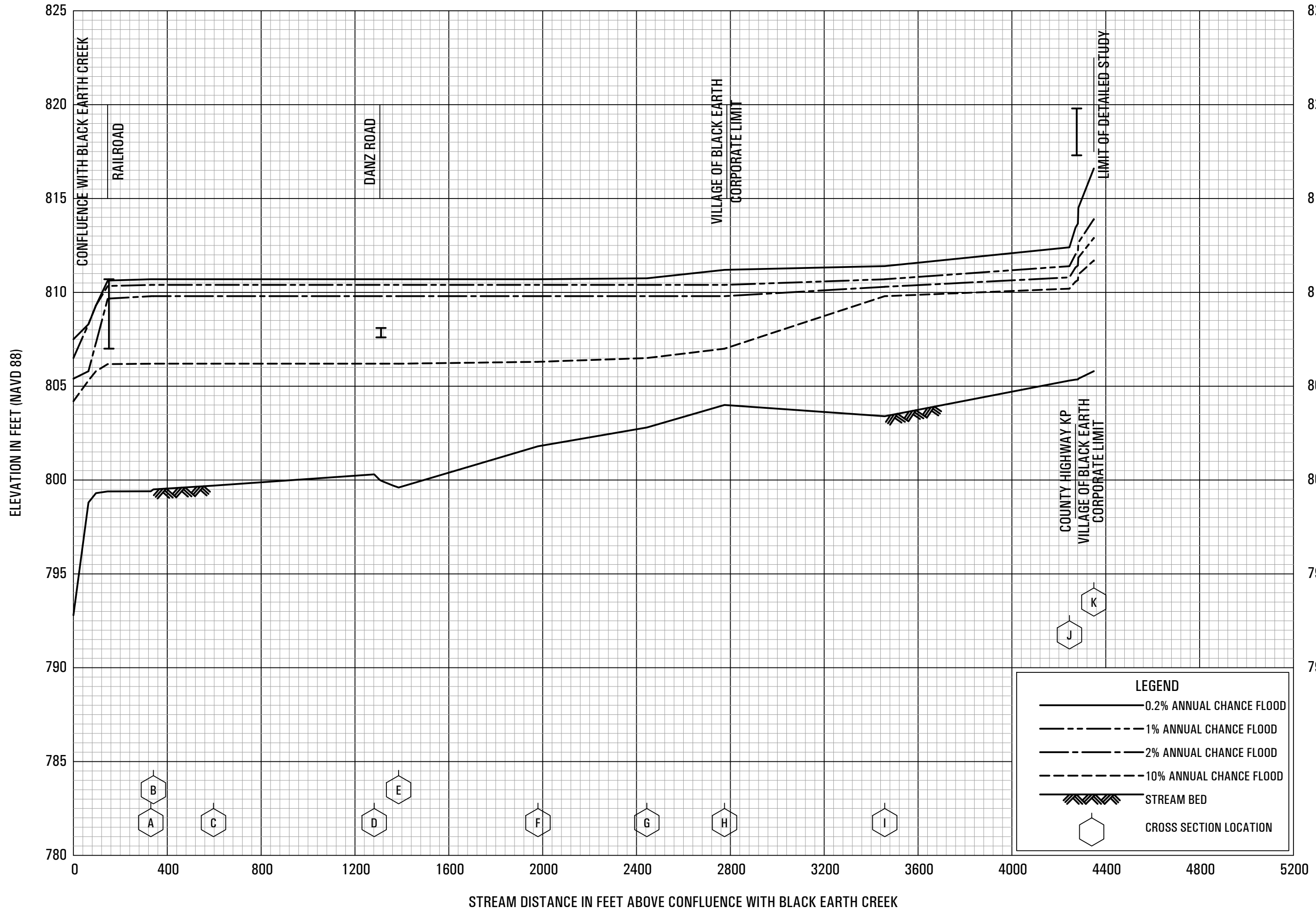
DANE COUNTY, WI
AND INCORPORATED AREAS



FEDERAL EMERGENCY MANAGEMENT AGENCY
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 AND INCORPORATED AREAS

FLOOD PROFILES

UNNAMED TRIBUTARY TO YAHARA RIVER

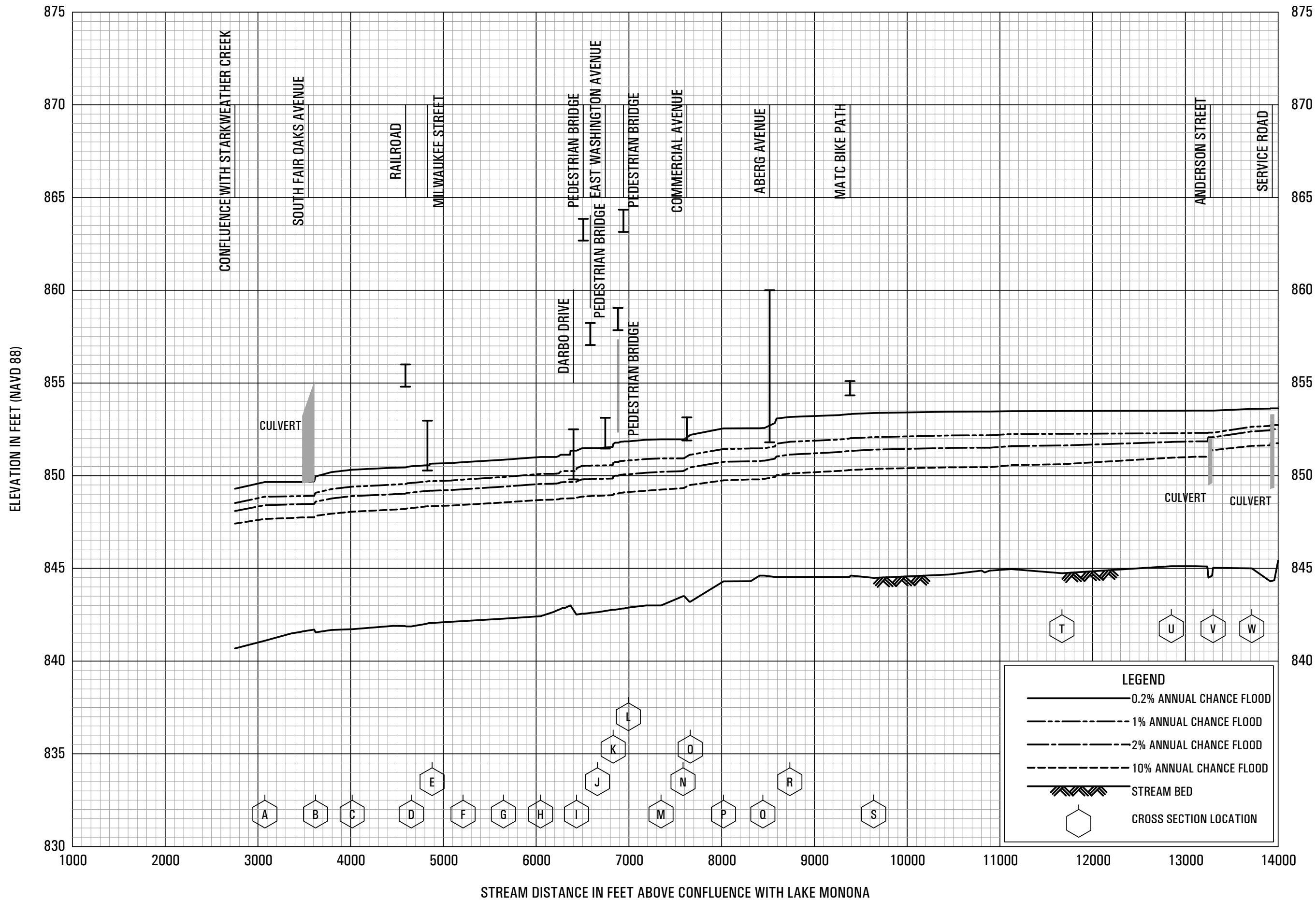


FLOOD PROFILES

VERMONT CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
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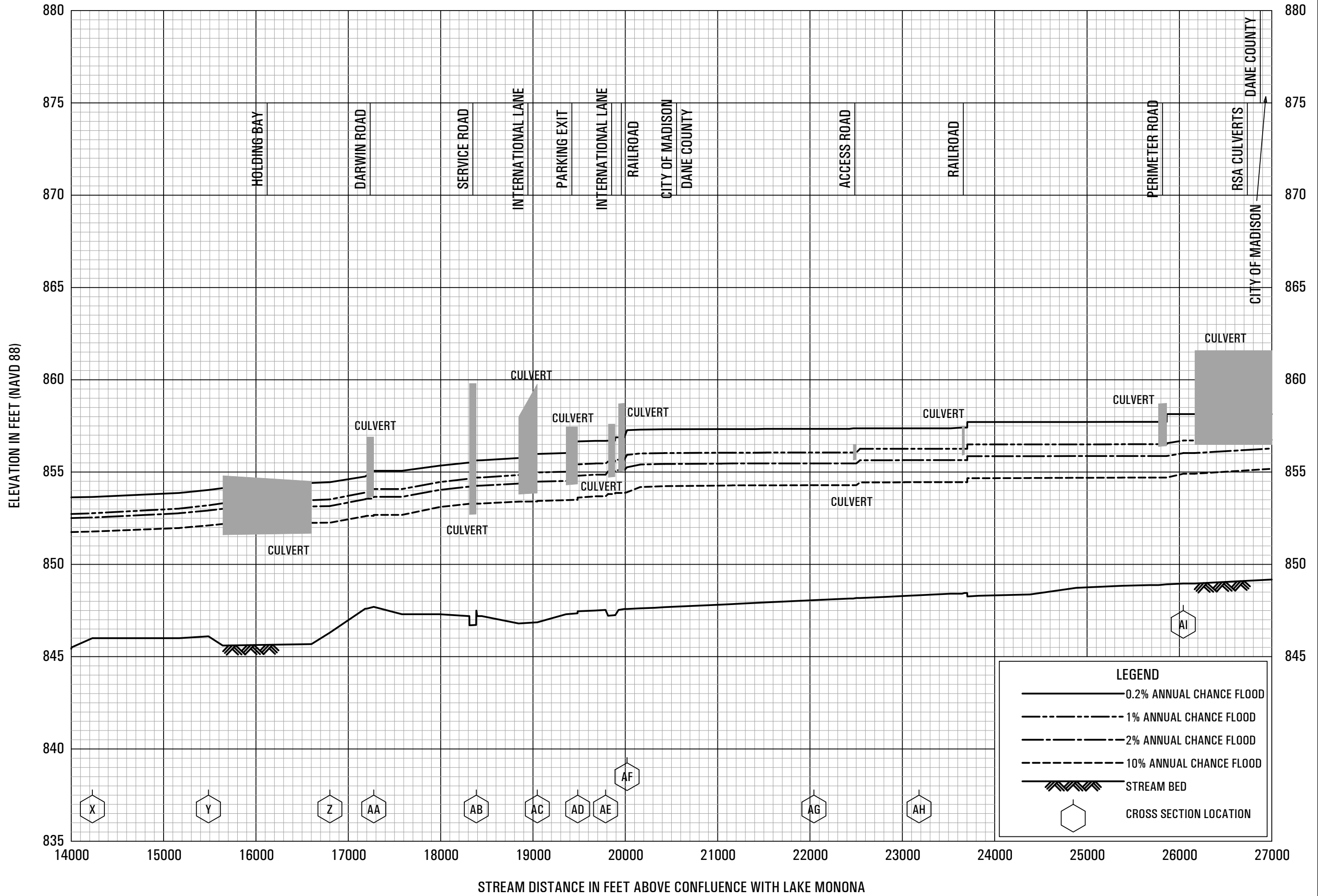


FLOOD PROFILES

WEST BRANCH STARKWEATHER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS

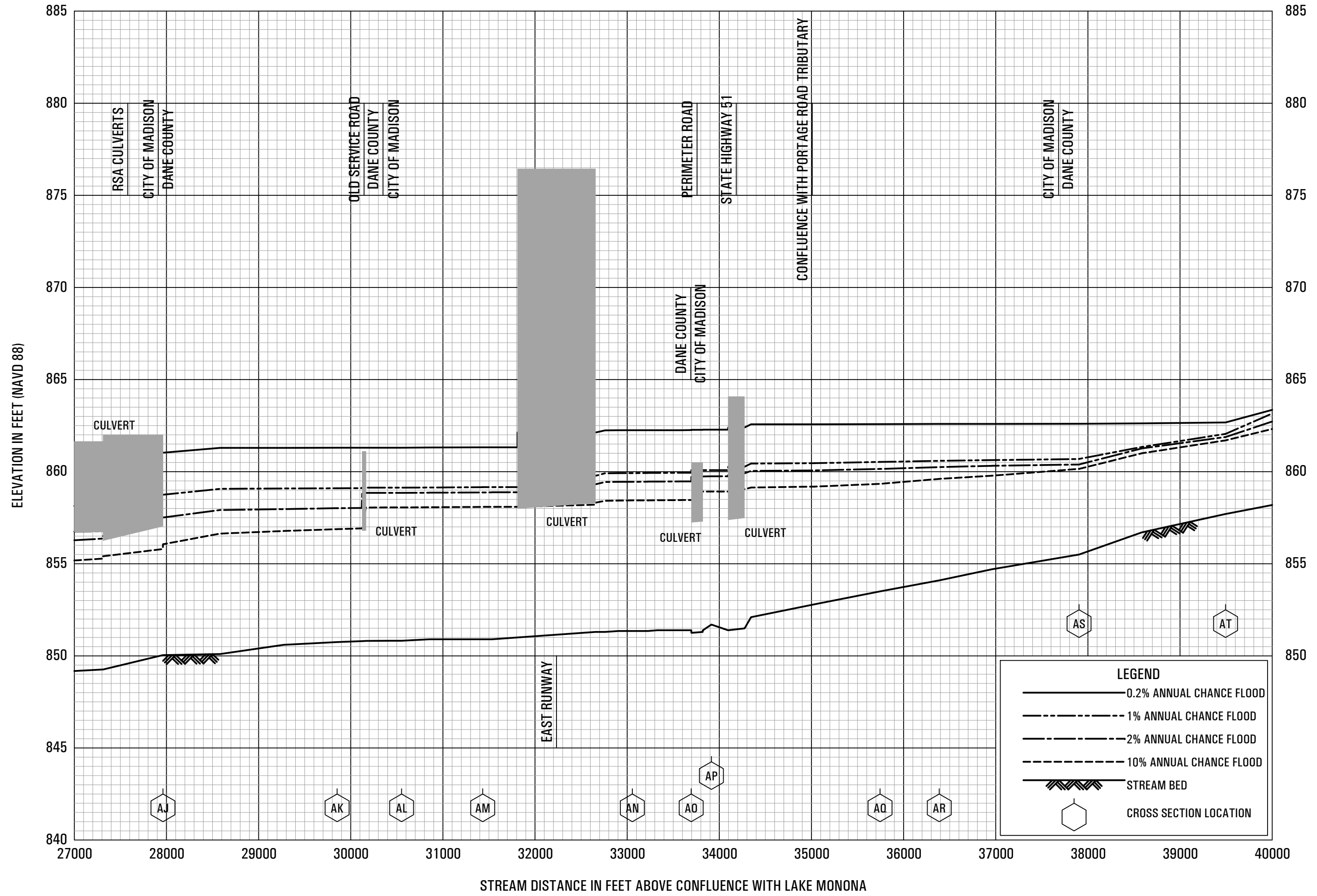


FLOOD PROFILES

WEST BRANCH STARKWEATHER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

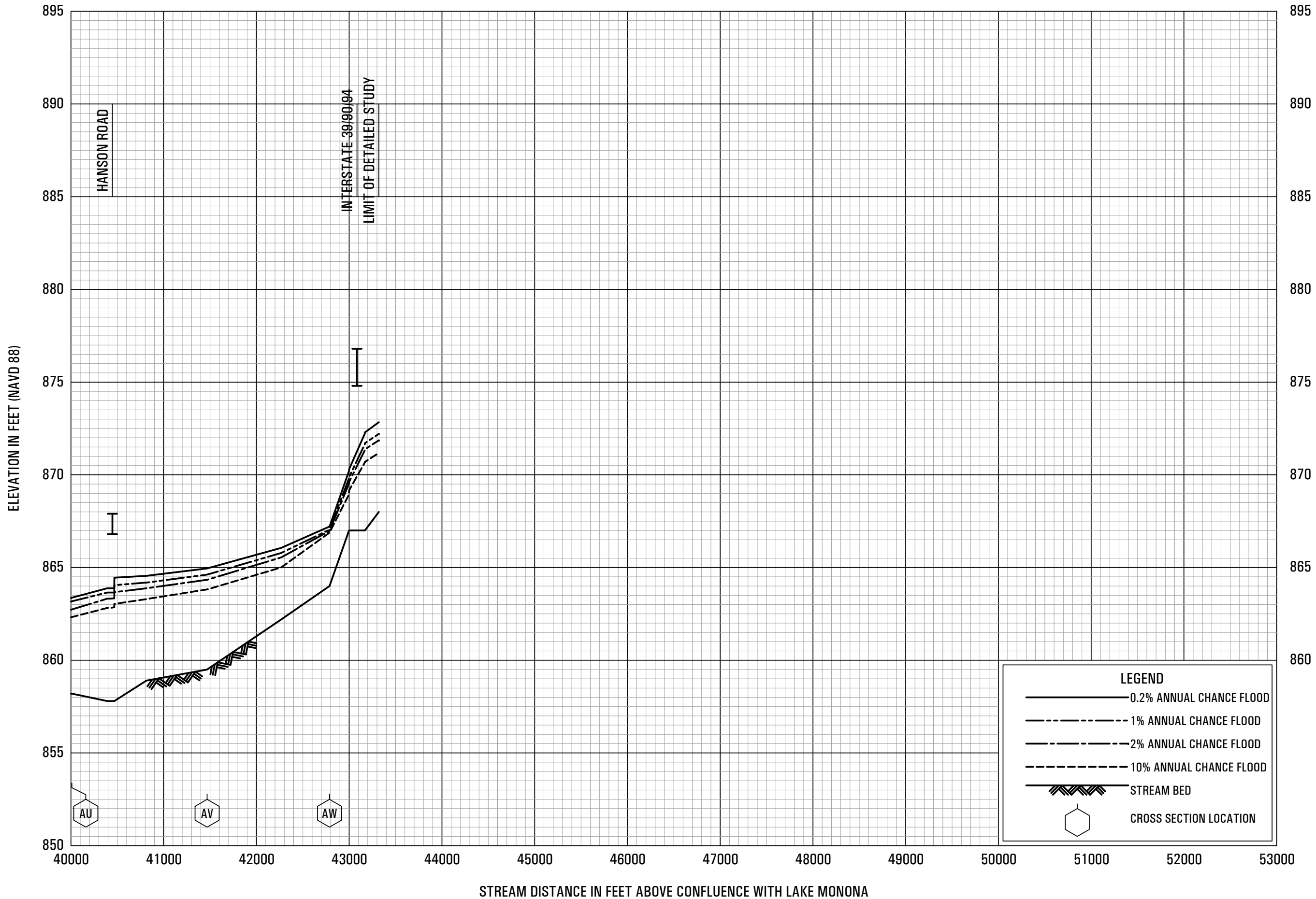
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DANE COUNTY, WI
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FLOOD PROFILES

WEST BRANCH STARKWEATHER CREEK

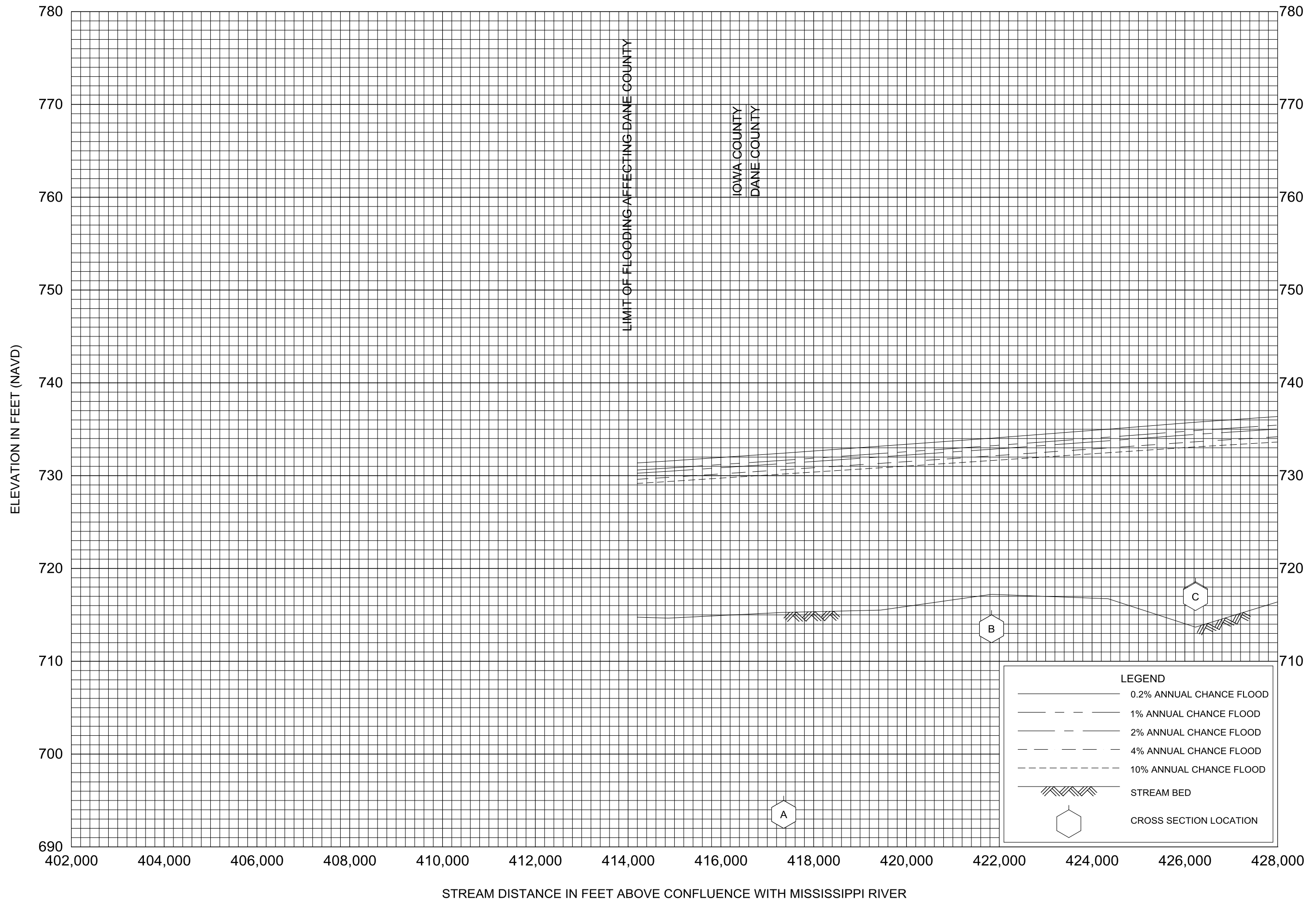


FLOOD PROFILES

WEST BRANCH STARKWEATHER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DANE COUNTY, WI
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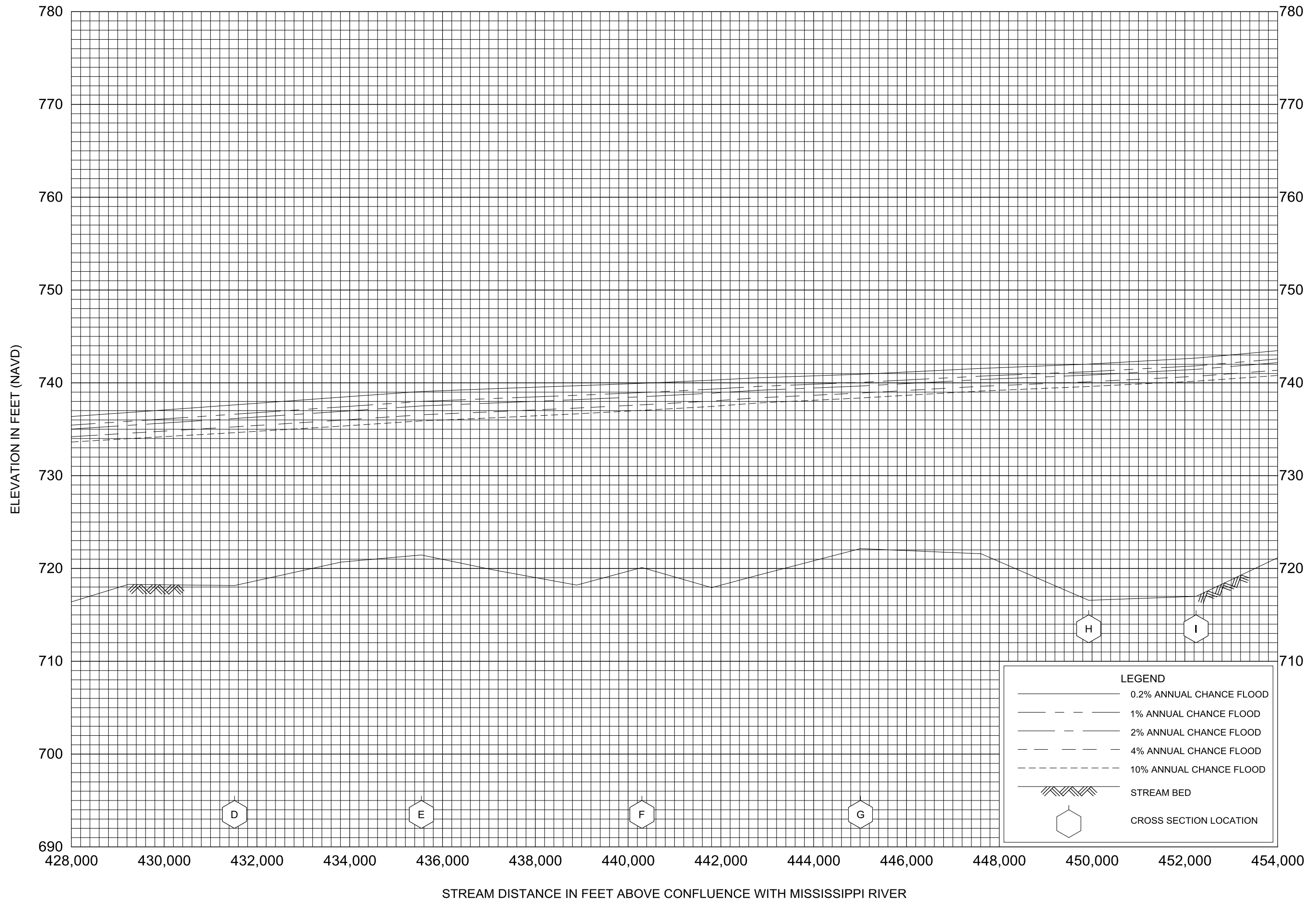


FLOOD PROFILES

WISCONSIN RIVER

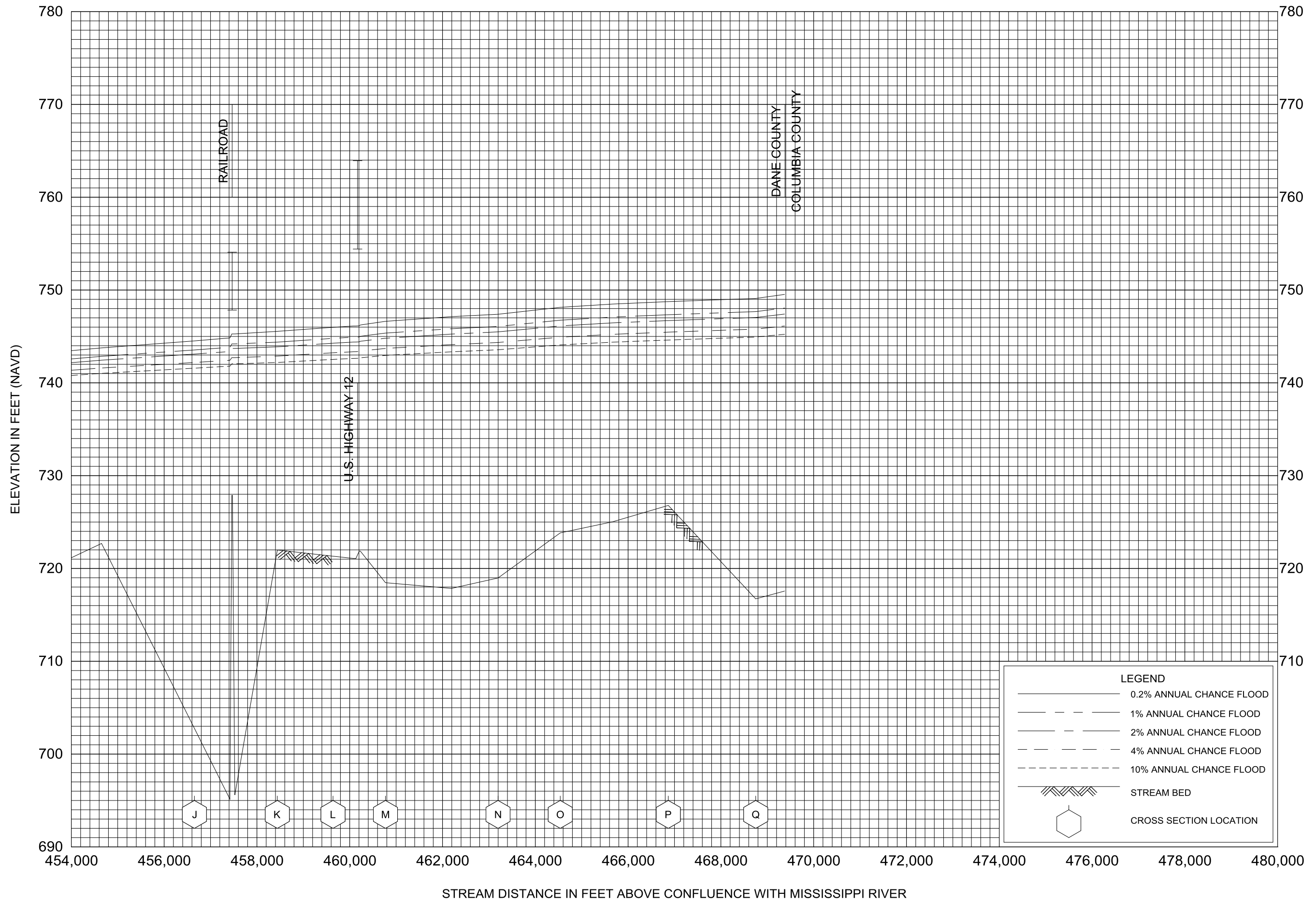
FEDERAL EMERGENCY MANAGEMENT AGENCY

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FLOOD PROFILES
WISCONSIN RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY
DANE COUNTY, WI
AND INCORPORATED AREAS

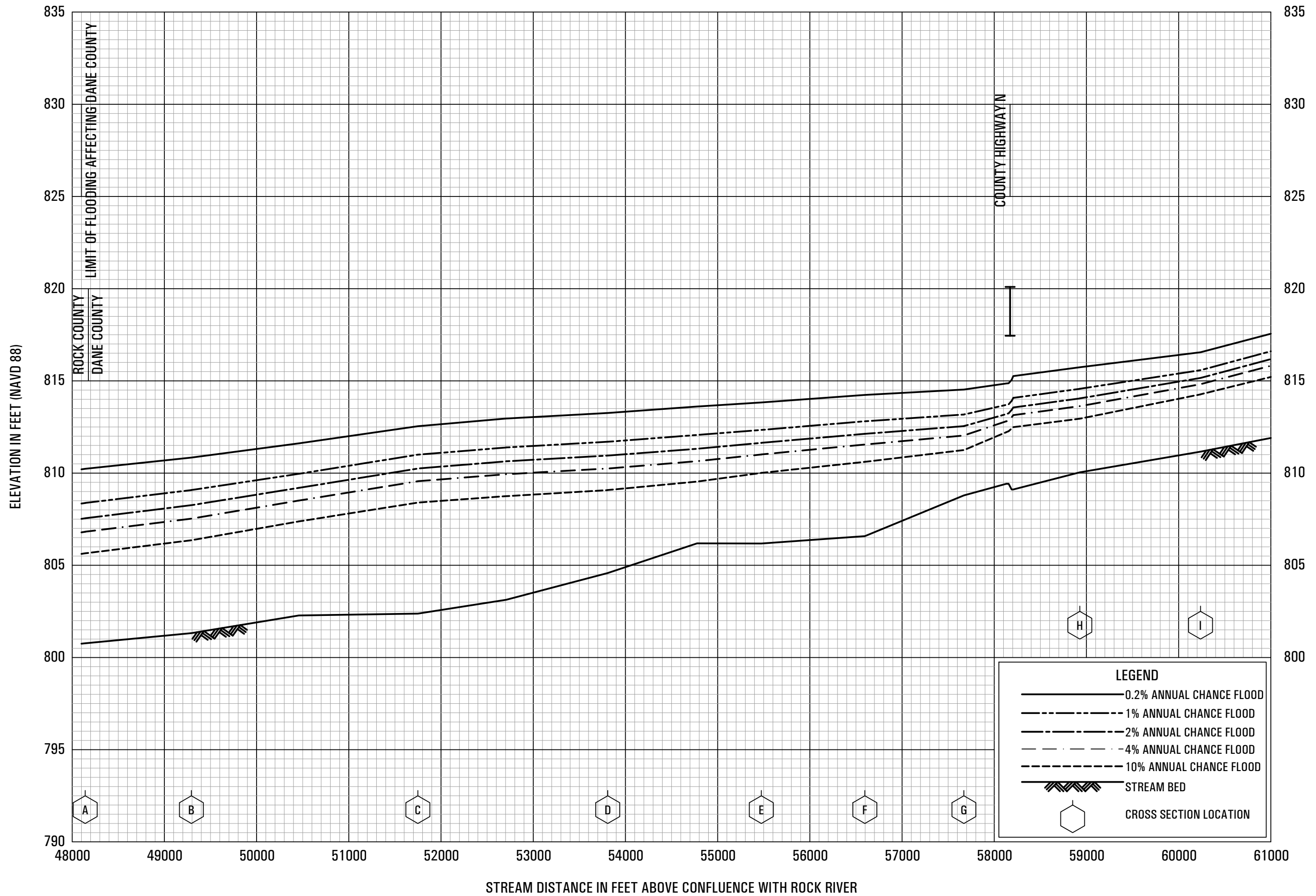


FLOOD PROFILES

WISCONSIN RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
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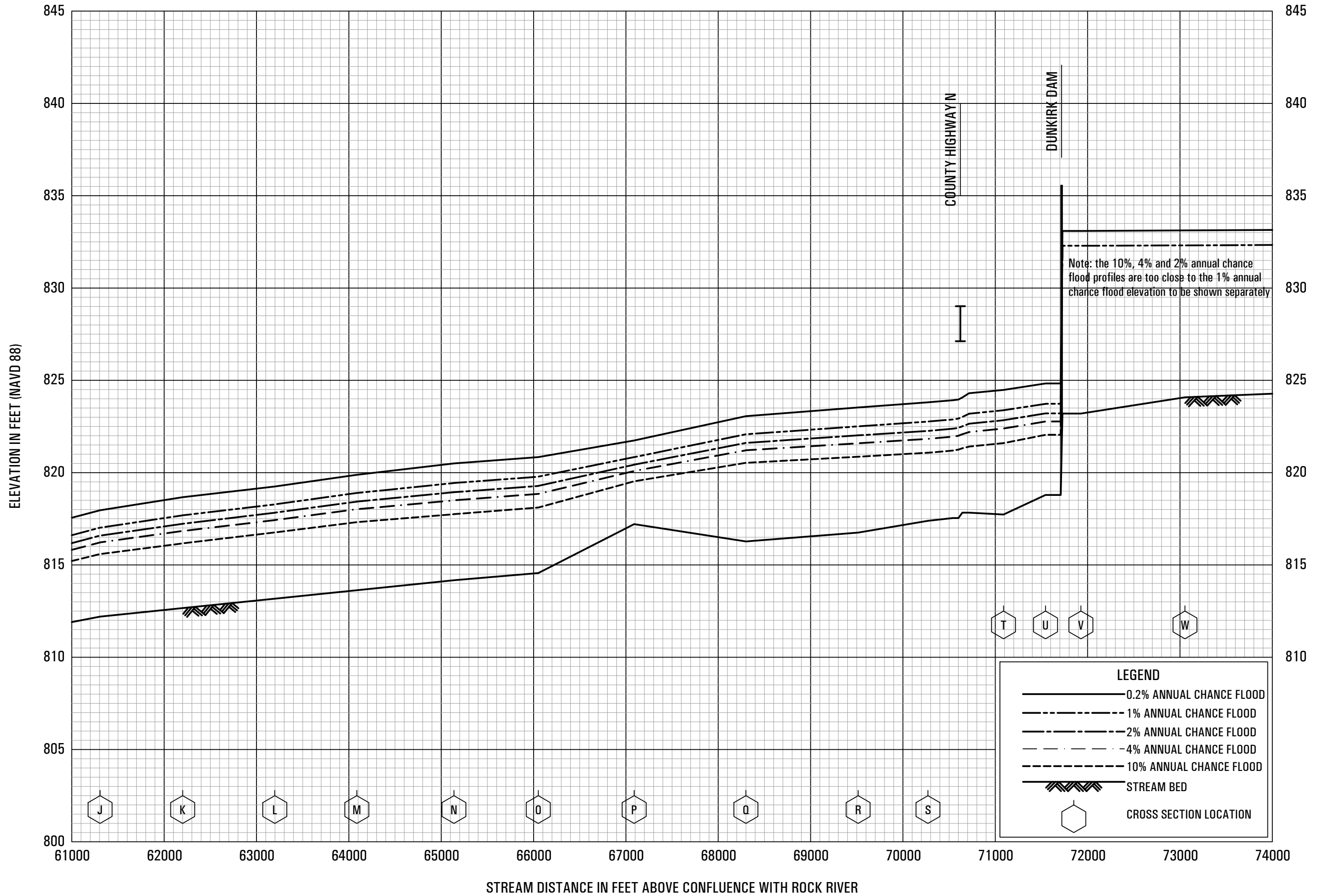


FLOOD PROFILES

YAHARA RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
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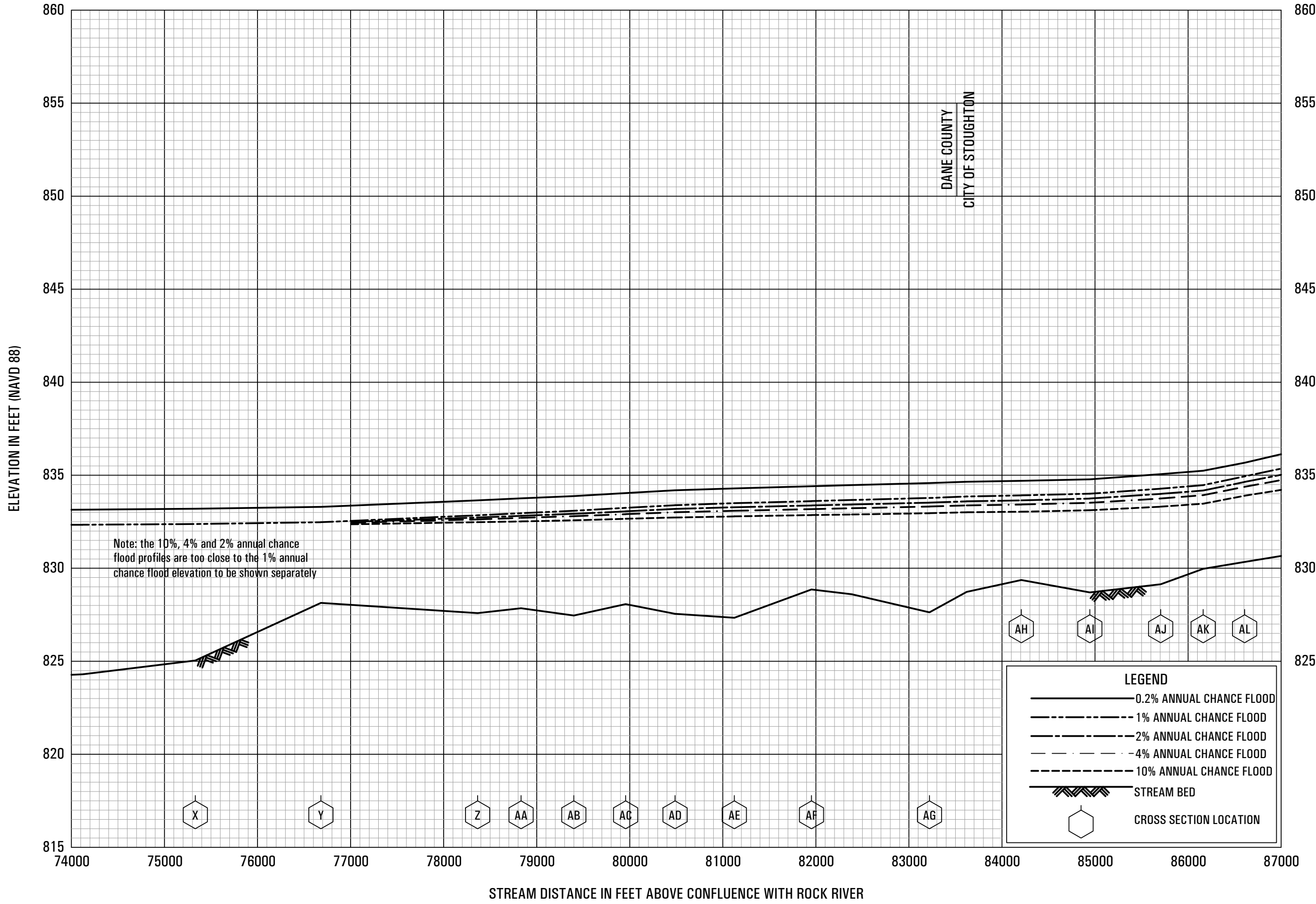


FLOOD PROFILES

YAHARA RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

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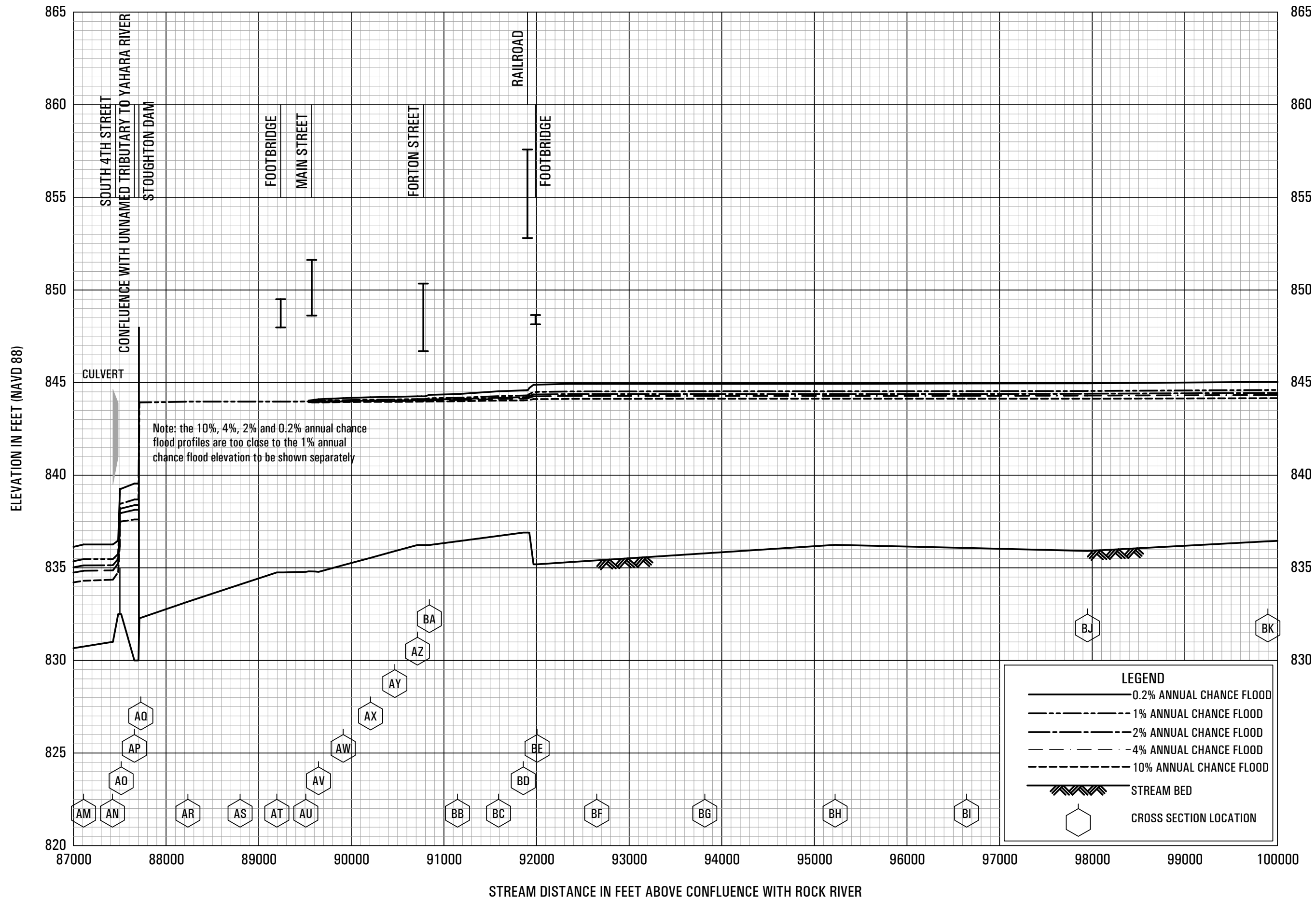


FLOOD PROFILES

YAHARA RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

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AND INCORPORATED AREAS

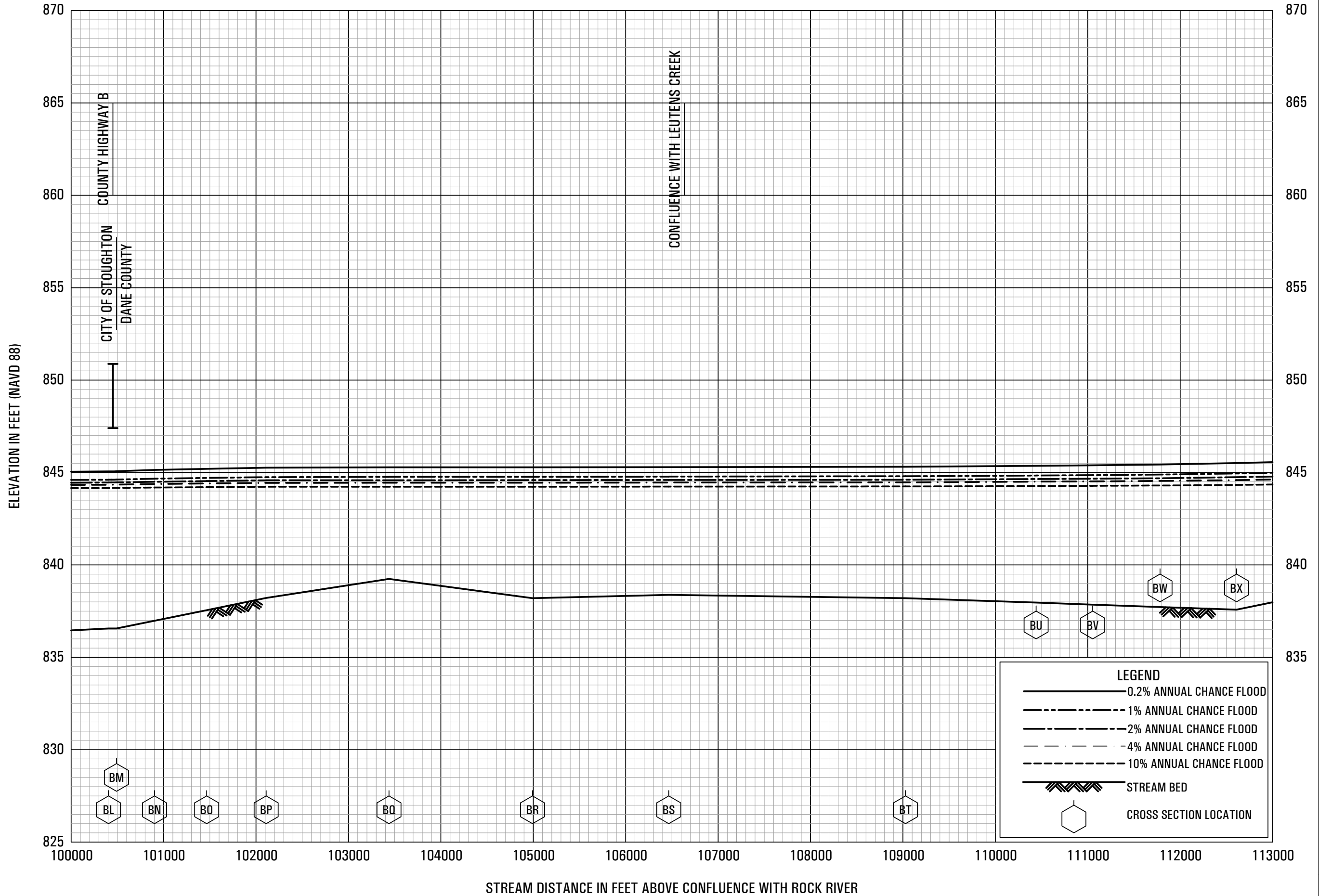


FLOOD PROFILES

YAHARA RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

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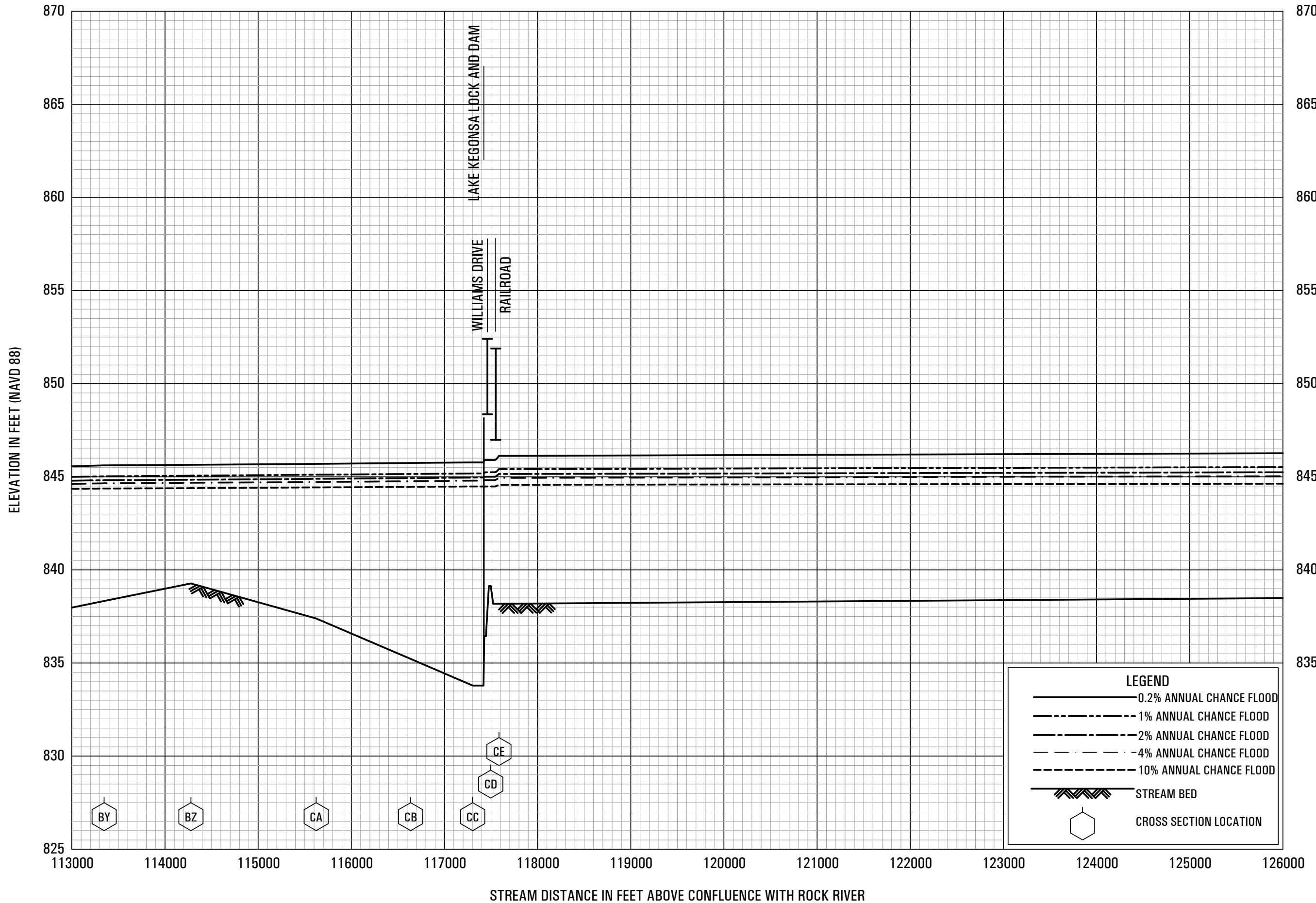


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YAHARA RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS

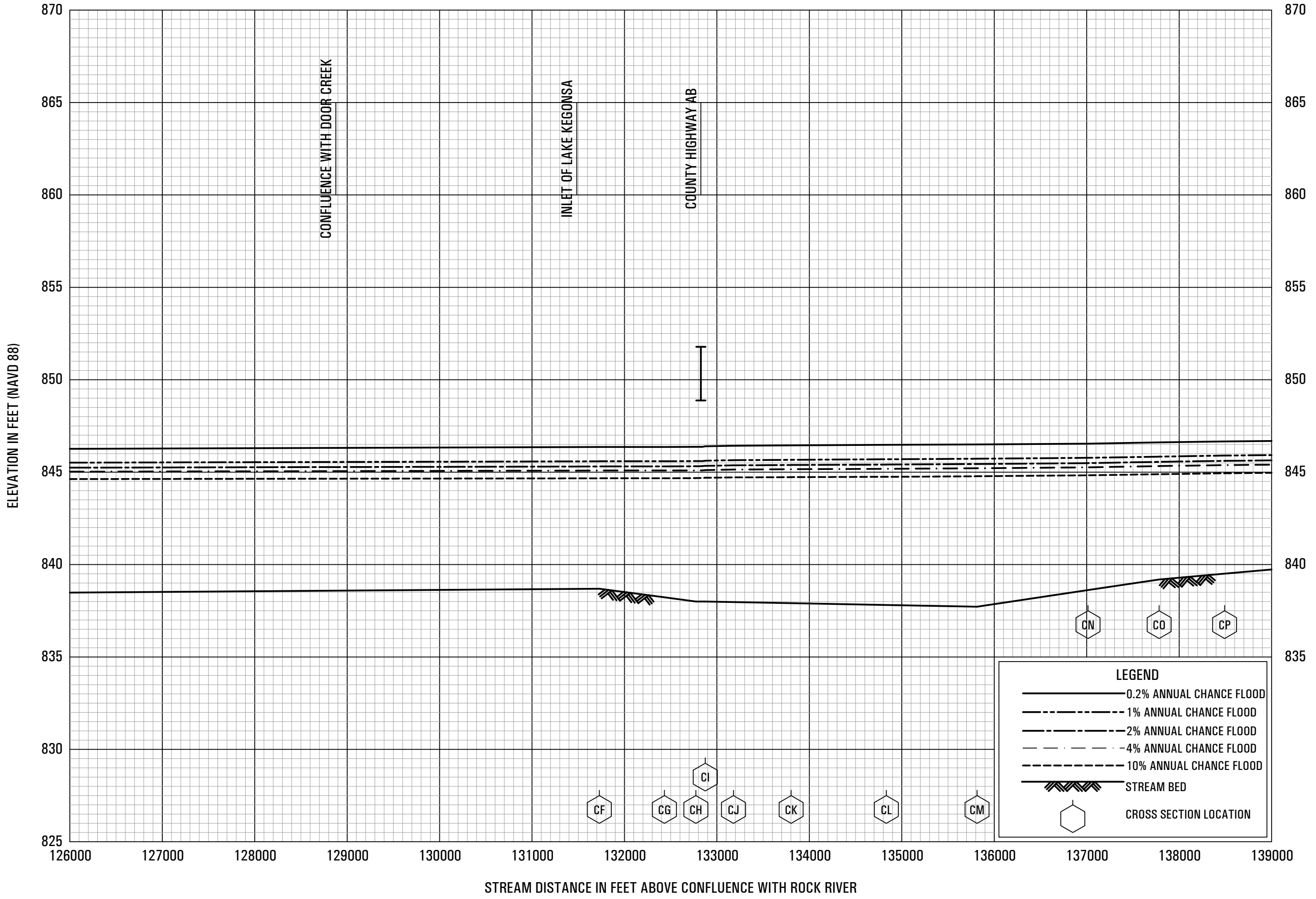


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YAHARA RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

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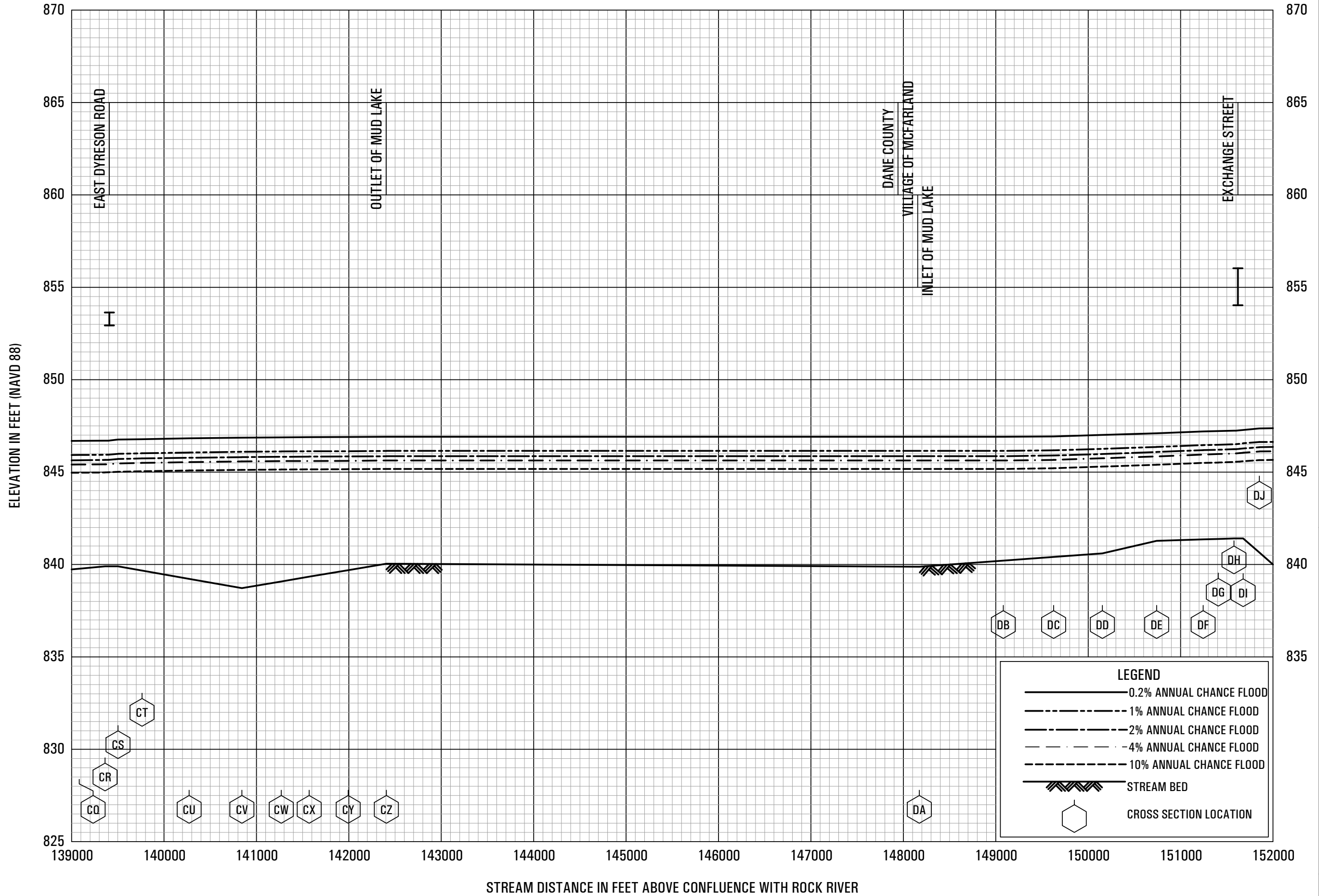


FLOOD PROFILES

YAHARA RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DANE COUNTY, WI
AND INCORPORATED AREAS**

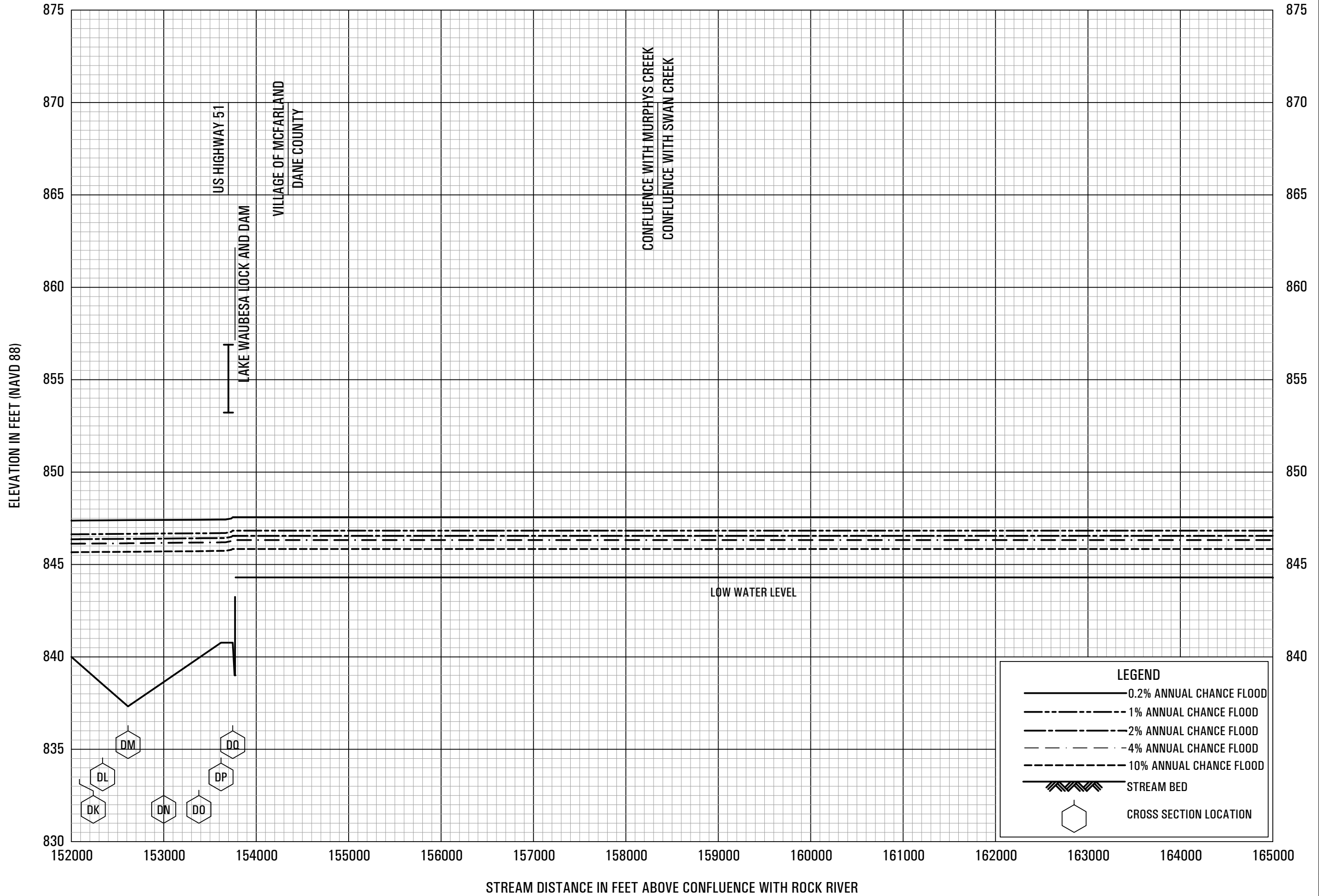


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FEDERAL EMERGENCY MANAGEMENT AGENCY

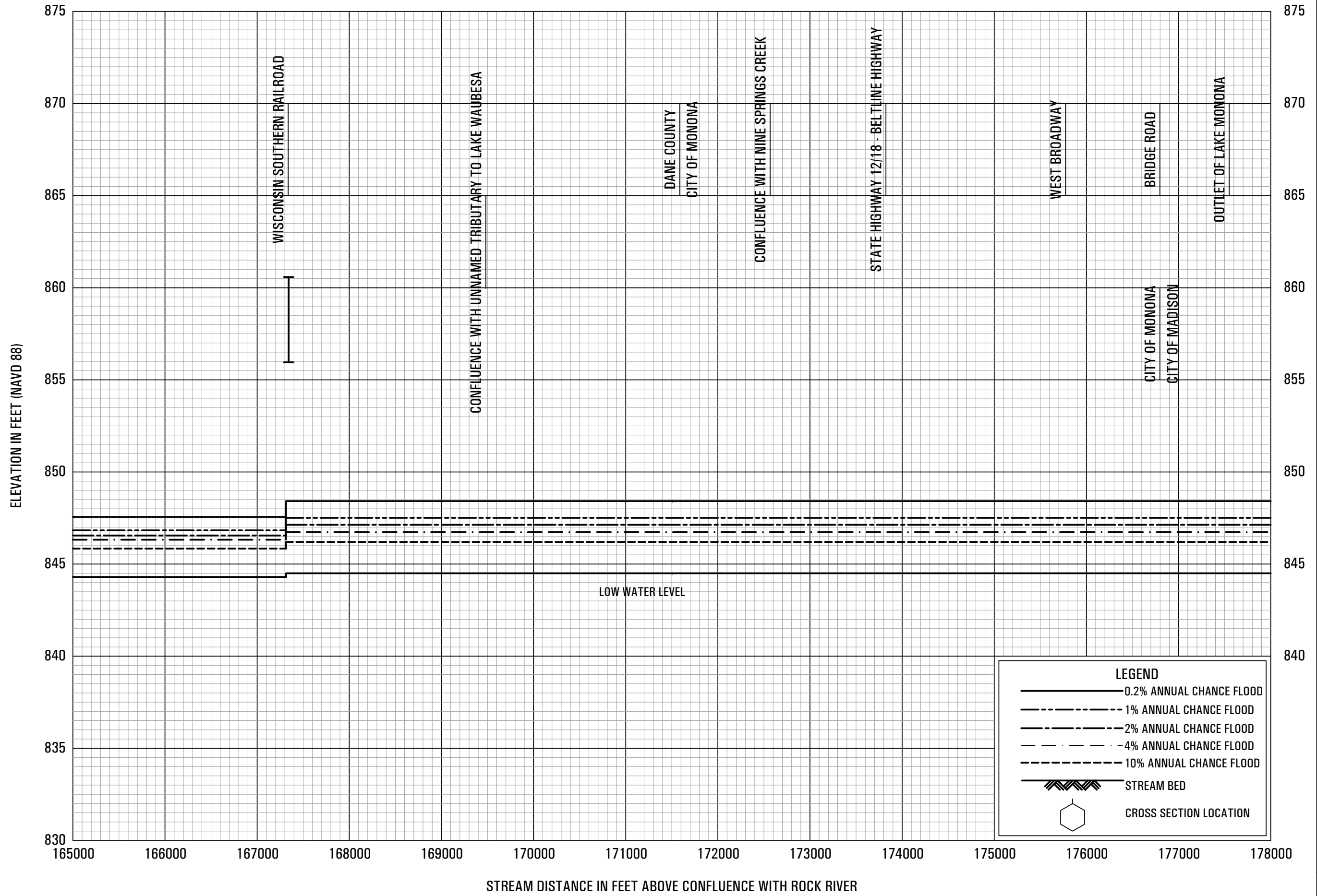
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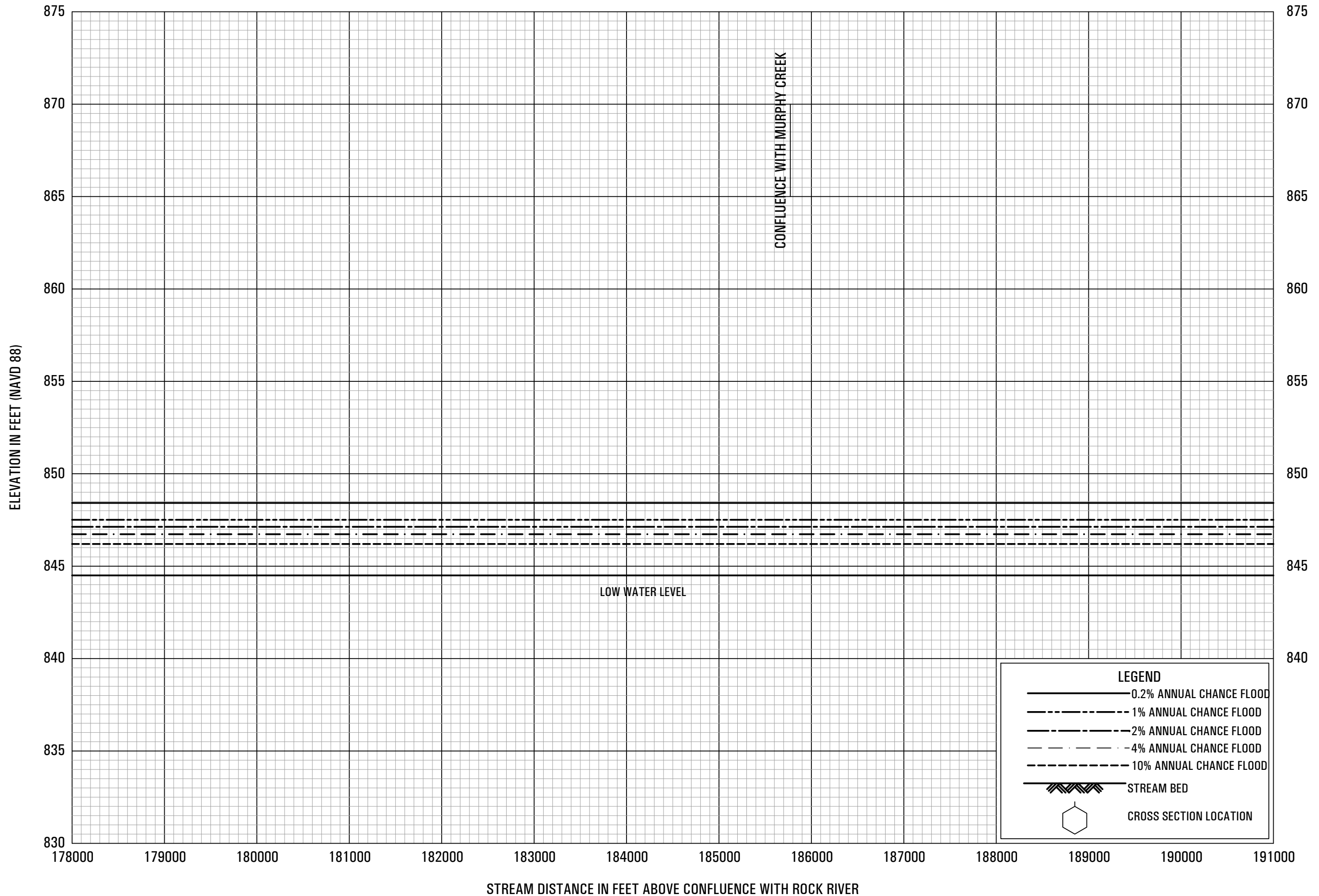


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FEDERAL EMERGENCY MANAGEMENT AGENCY

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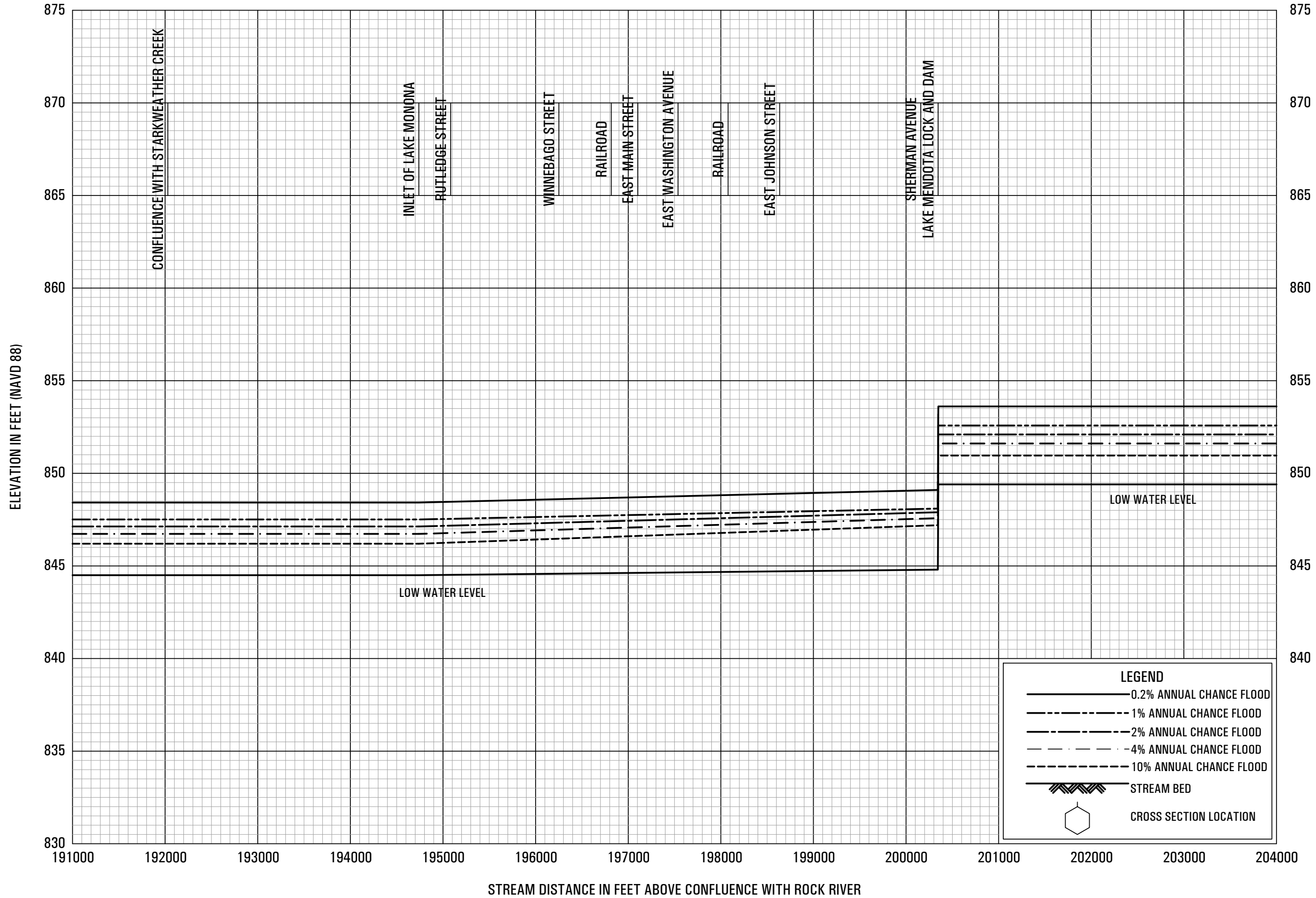


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YAHARA RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

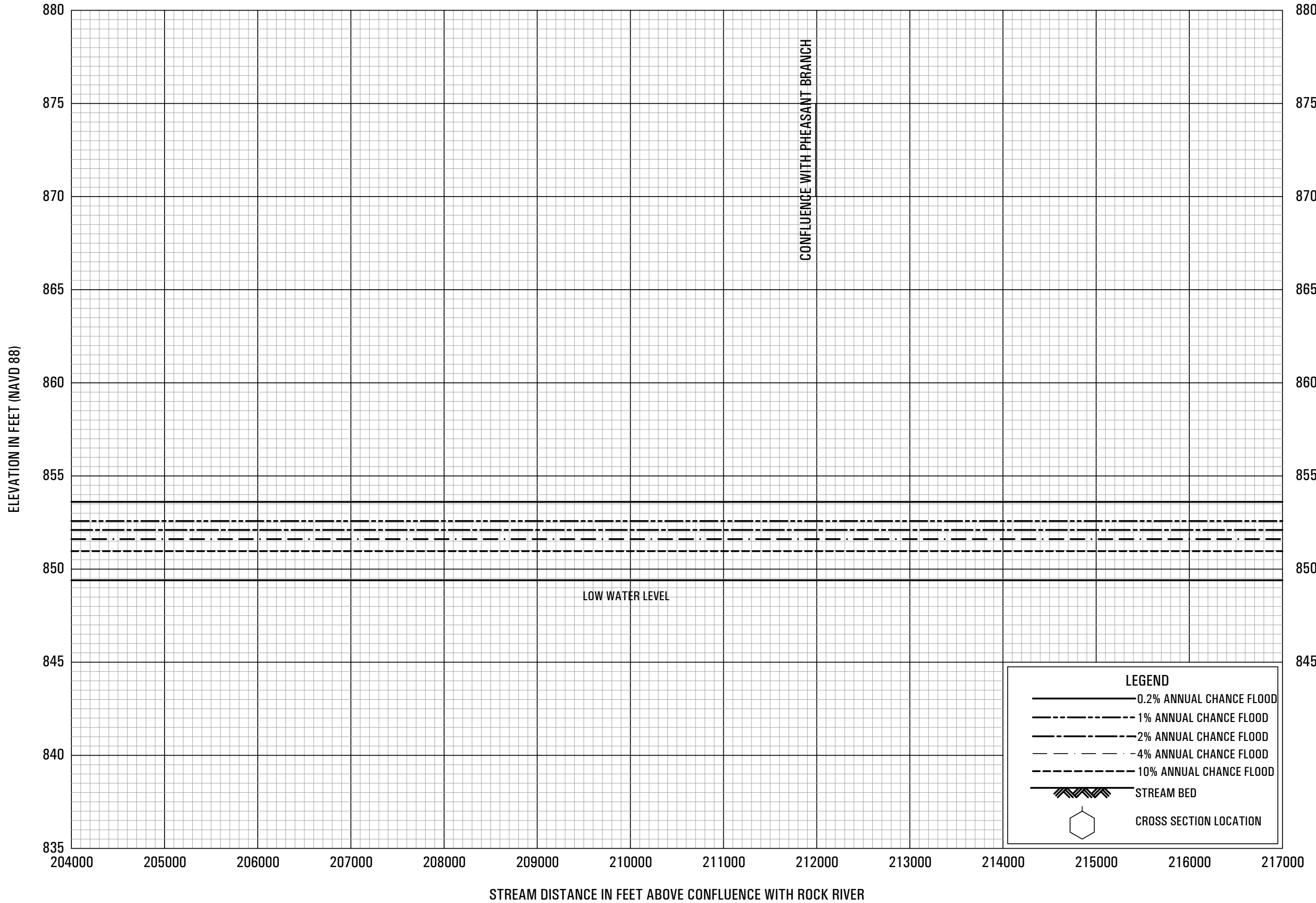
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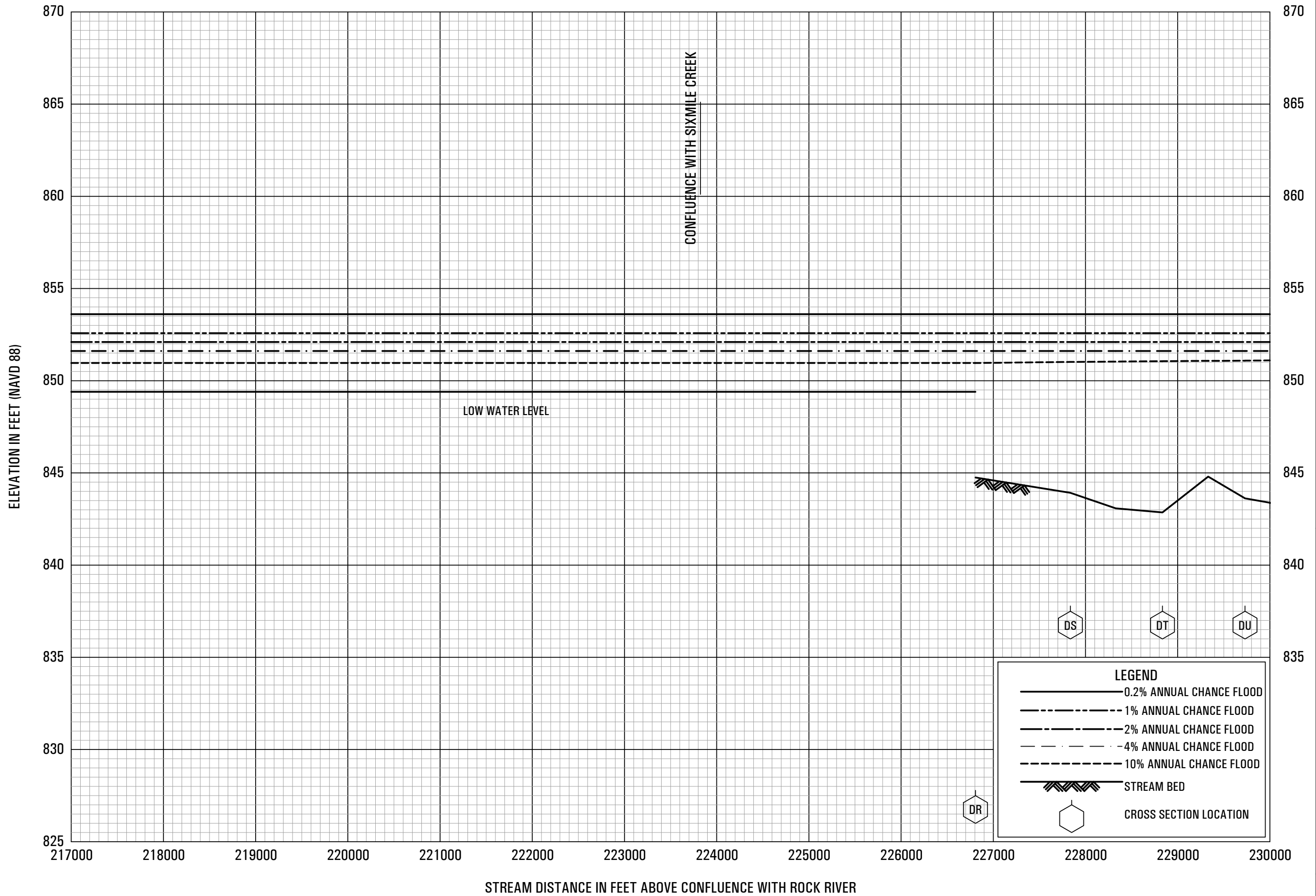


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FEDERAL EMERGENCY MANAGEMENT AGENCY

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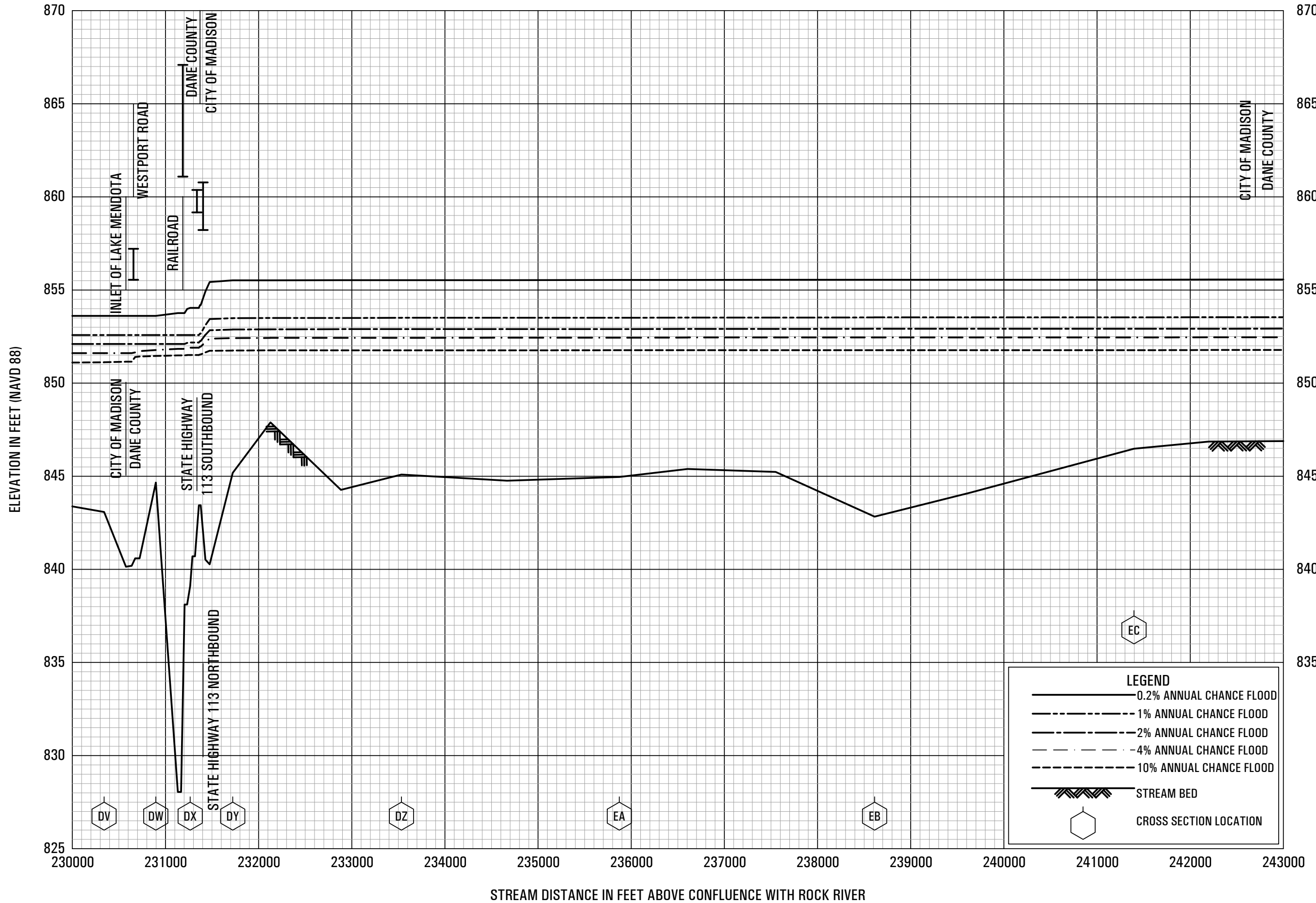


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AND INCORPORATED AREAS**

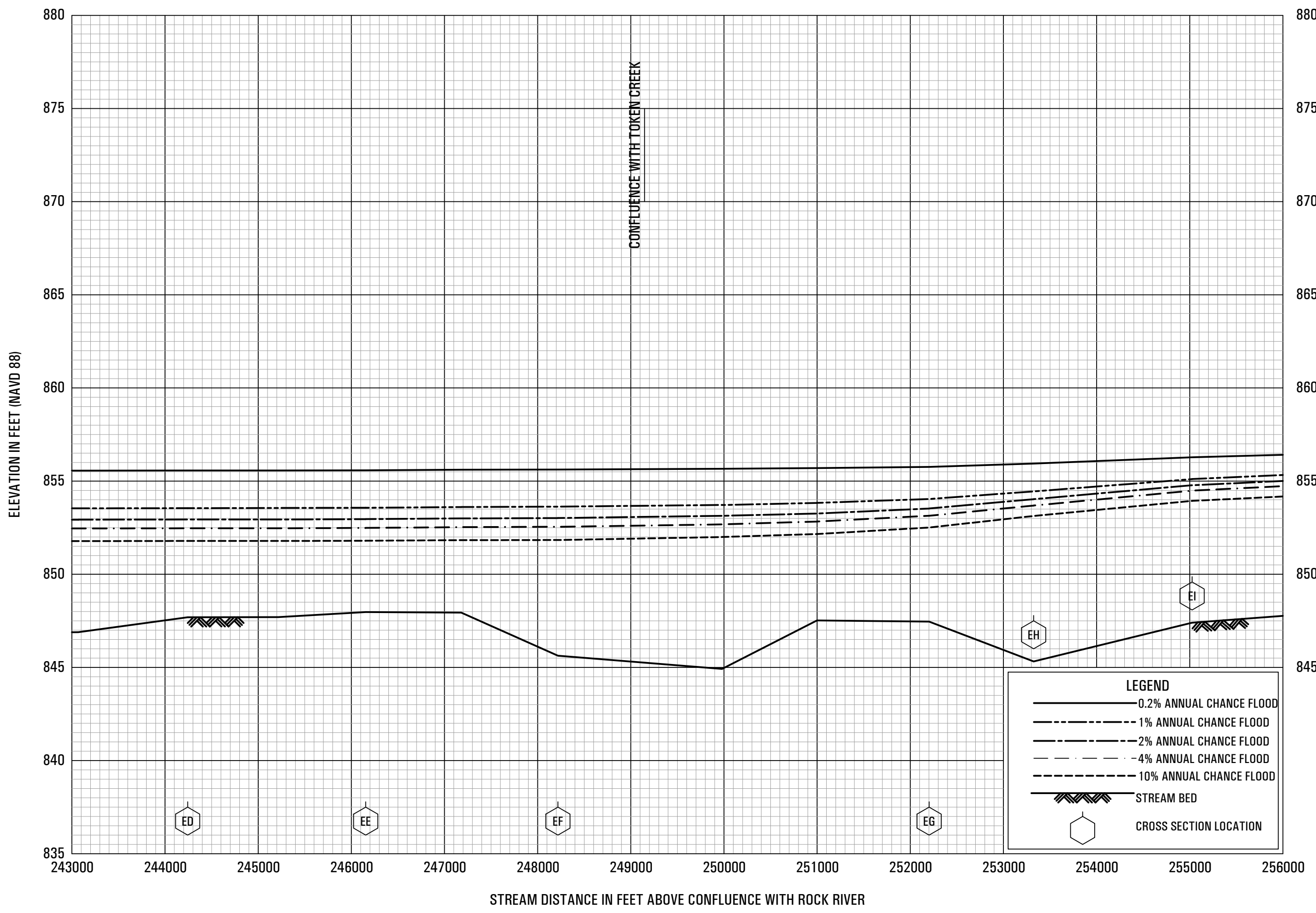


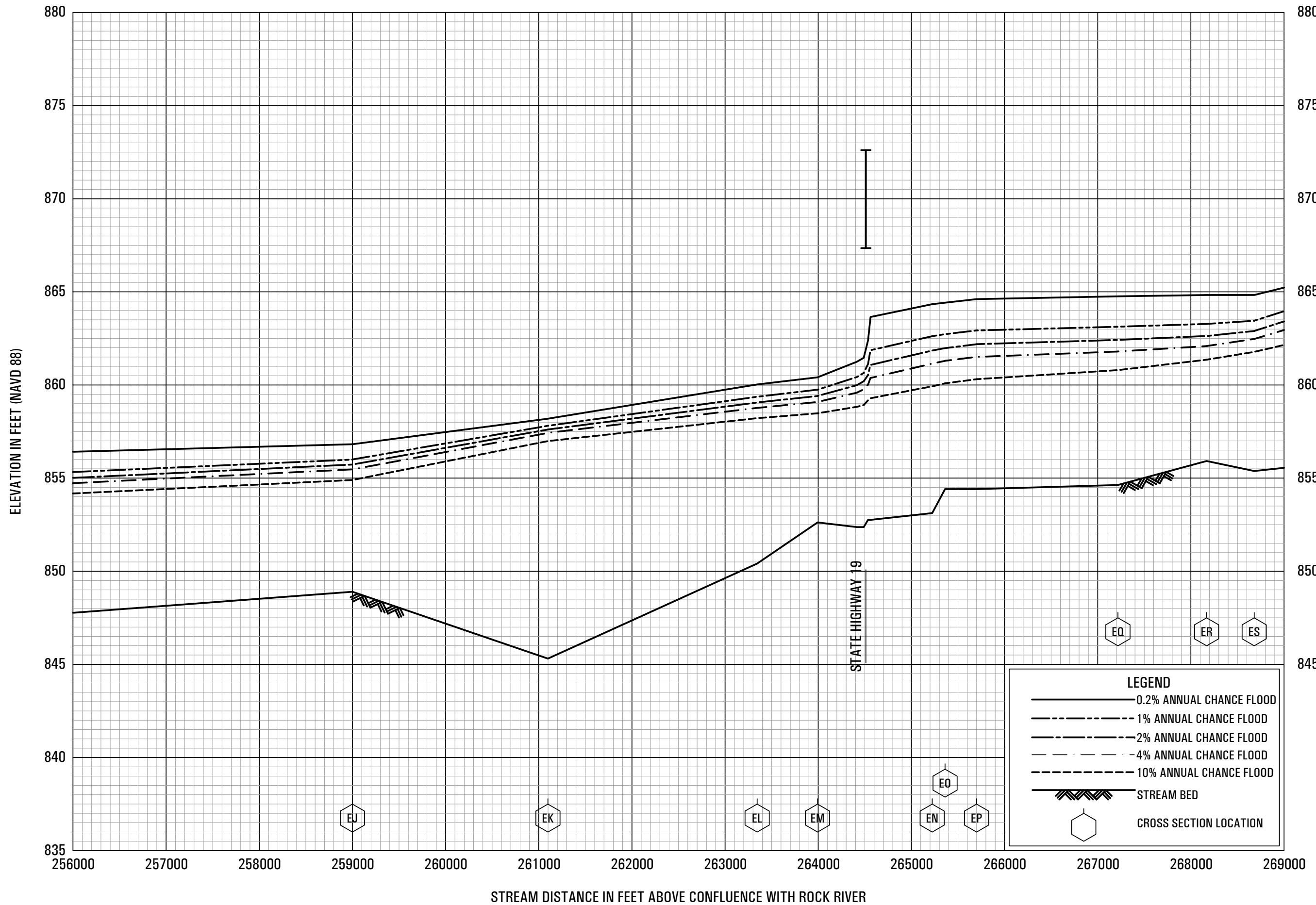
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FEDERAL EMERGENCY MANAGEMENT AGENCY

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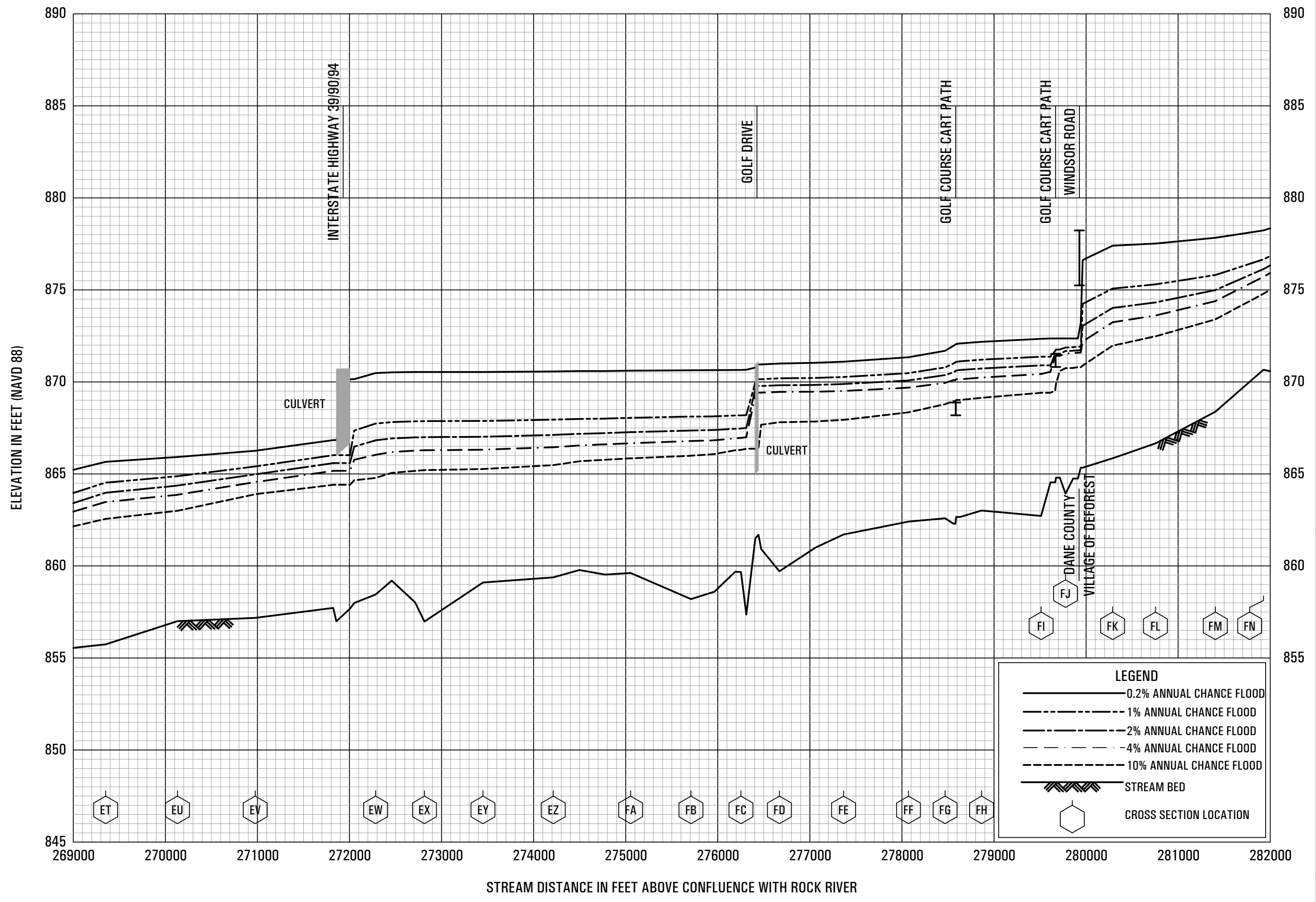


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FEDERAL EMERGENCY MANAGEMENT AGENCY

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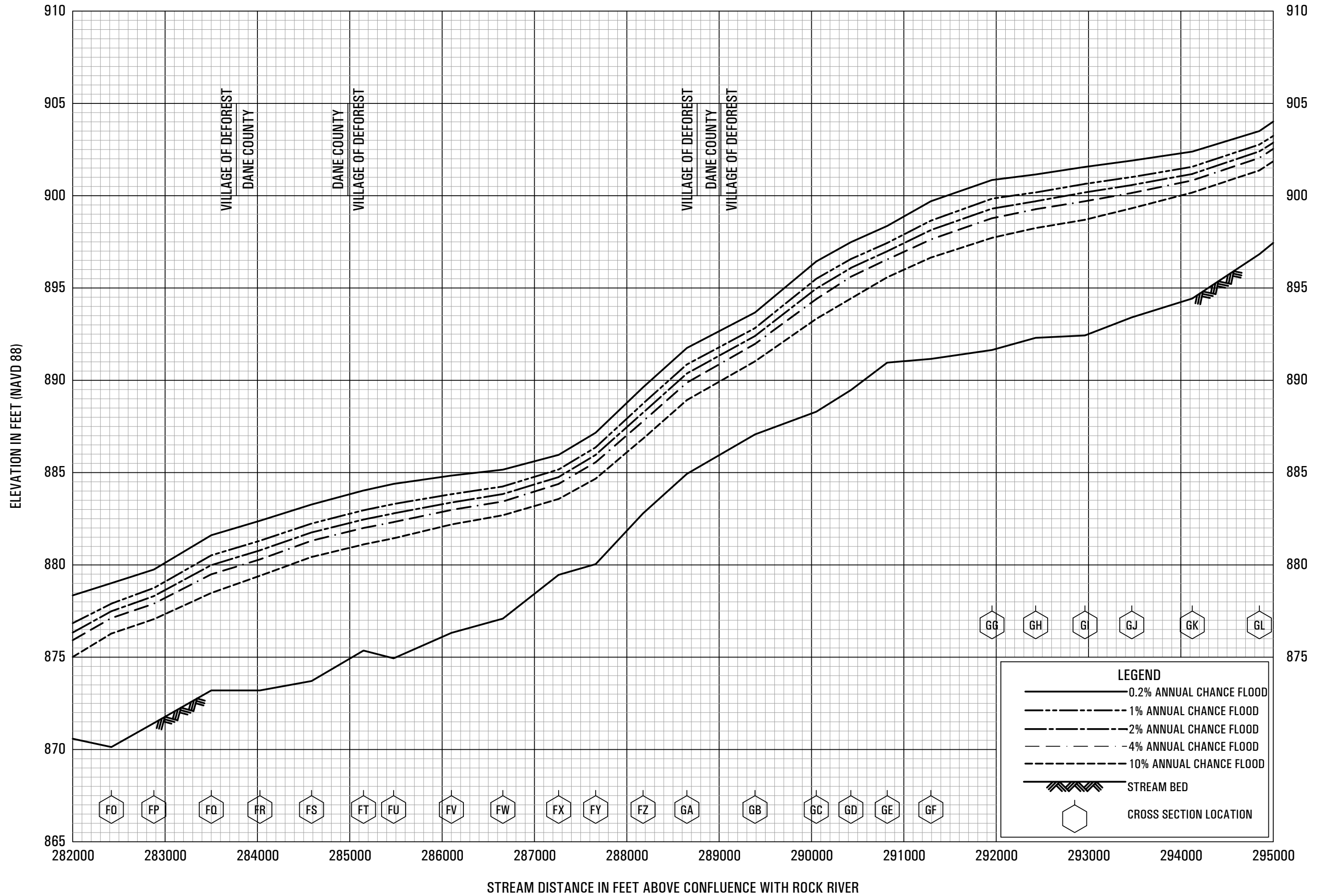


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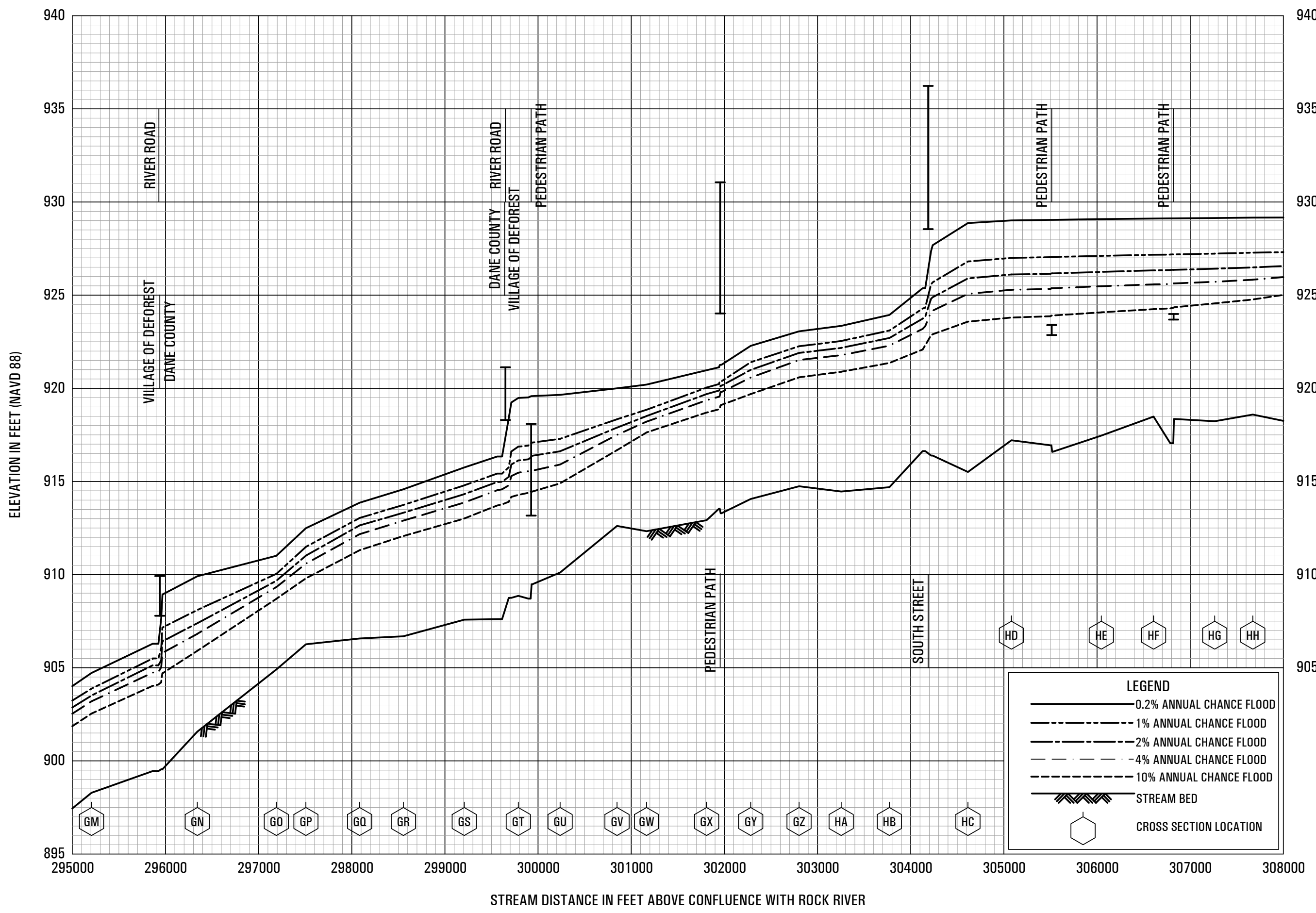


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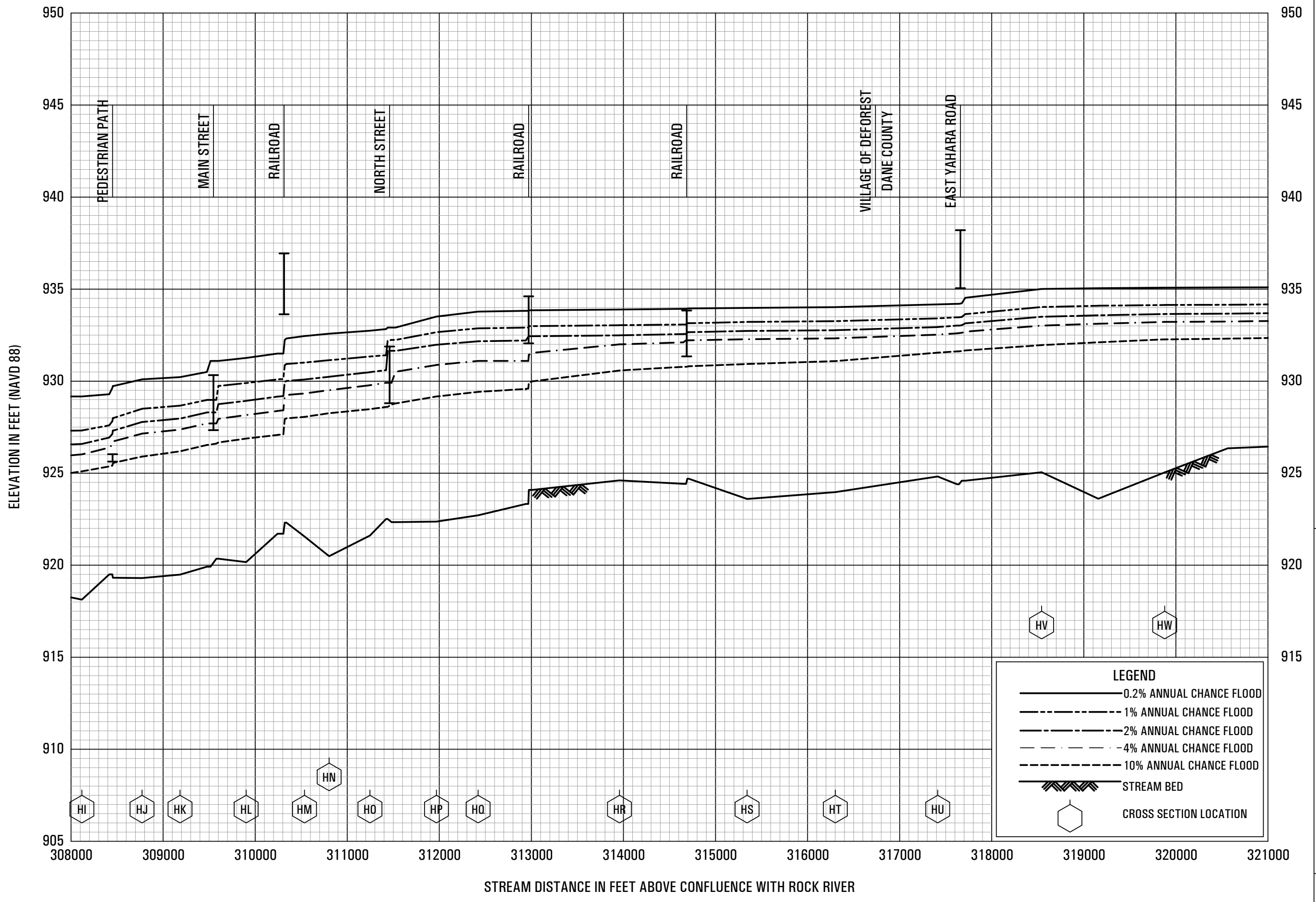


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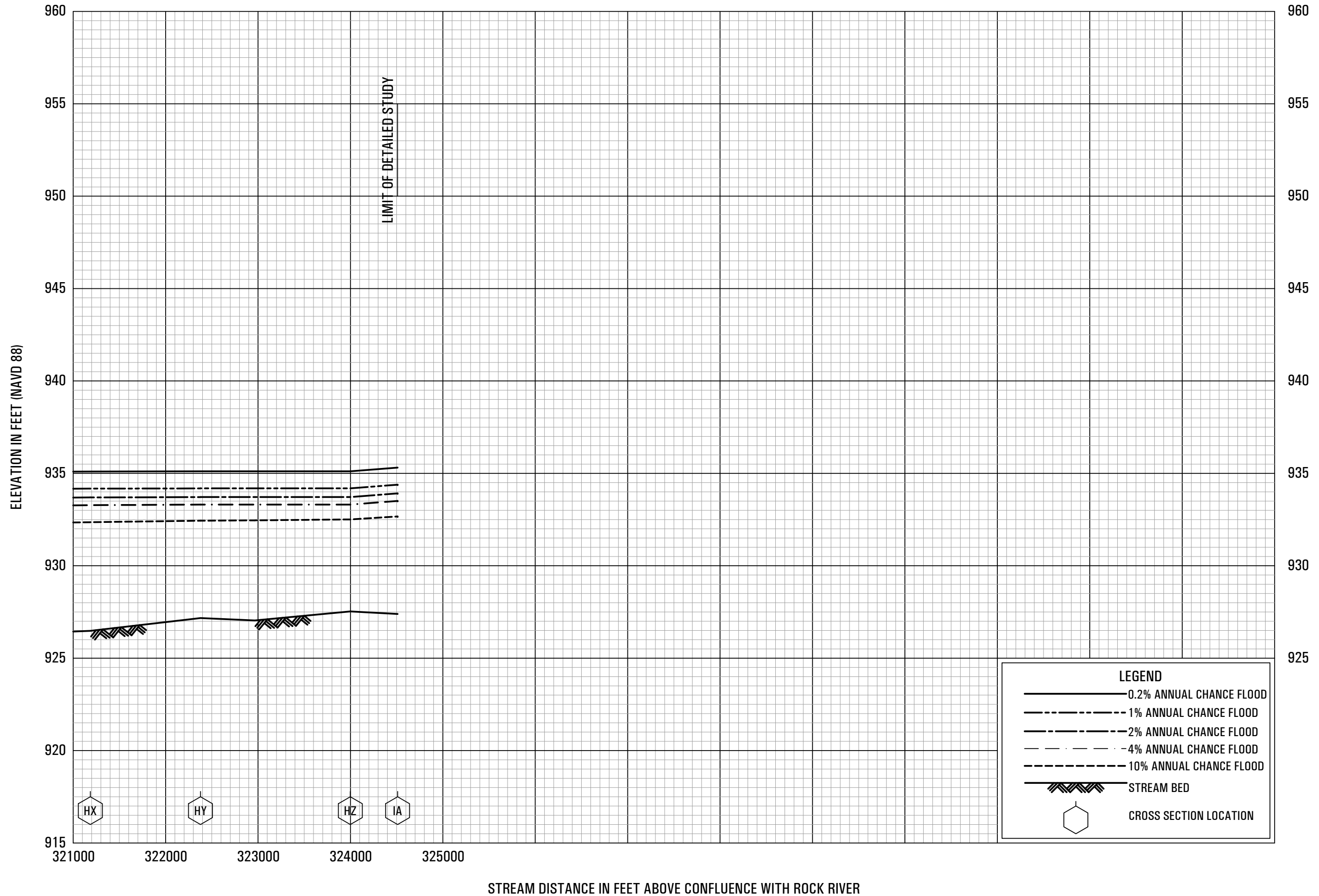
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