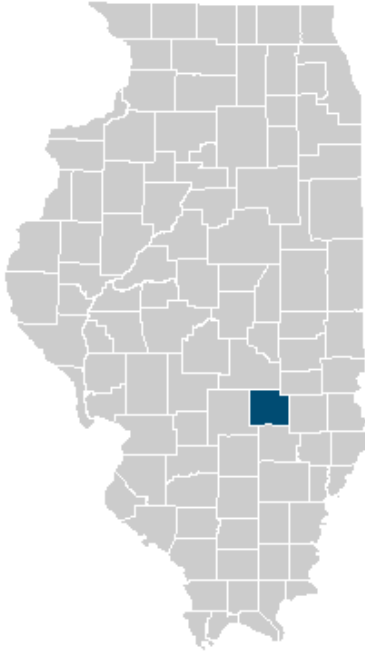


FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 1 OF 1



EFFINGHAM COUNTY, ILLINOIS

AND INCORPORATED AREAS

| COMMUNITY NAME | COMMUNITY NUMBER |
|--|------------------|
| ALTAMONT, CITY OF | 170228 |
| BEECHER CITY, VILLAGE OF* | 171105 |
| DIETERICH, VILLAGE OF | 171106 |
| EDGEWOOD, VILLAGE OF* | 171107 |
| EFFINGHAM COUNTY UNINCORPORATED AREAS | 170227 |
| EFFINGHAM, CITY OF | 170229 |
| MASON, TOWN OF* | 171108 |
| MONTROSE, VILLAGE OF* | 170230 |
| SHUMWAY, VILLAGE OF* | 171109 |
| TEUTOPOLIS, VILLAGE OF | 170231 |
| WATSON, VILLAGE OF | 170974 |

* No Special Flood Hazard Areas Identified



FEMA

EFFECTIVE:

JANUARY 17, 2025

FLOOD INSURANCE STUDY NUMBER

17049CV000A

Version Number 2.6.3.6

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Volume 1

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|-----------------------------------|--------------|
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| Little Wabash River Tributary N | 02-03 P |
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| Little Wabash River Tributary O | 07 P |
| Salt Creek | 08-12 P |
| Salt Creek Tributary A | 13-16 P |
| Salt Creek Tributary A1 | 17 P |
| Salt Creek Tributary A2 | 18-19 P |
| Salt Creek Tributary C | 20-21 P |
| Salt Creek Tributary D | 22 P |
| Salt Creek Tributary E | 23-26 P |
| Salt Creek Tributary F | 27 P |
| Salt Creek Tributary G | 28-29 P |
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Published Separately

Flood Insurance Rate Map (FIRM)

FLOOD INSURANCE STUDY REPORT EFFINGHAM COUNTY, ILLINOIS

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 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, *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 provides 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 Effingham County, Illinois.

The jurisdictions that are included in this project area, along with the Community Identification Number (CID) for each community and the United States Geological Survey (USGS) 8-digit Hydrologic Unit Code (HUC-8) sub-basins affecting each, are shown in Table 1. The 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 |
|---------------------------------------|--------|--|--|--|
| Altamont, City of | 170228 | 05120114 | 17049C0142D 17049C0150D 17049C0161D 17049C0175D | |
| Beecher City, Village of ¹ | 171105 | 07140202 | 17049C0025D | |
| Dieterich, Village of | 171106 | 05120114 | 17049C0217D 17049C0225D 17049C0250D ² | |
| Edgewood, Village of ¹ | 171107 | 05120114 | 17049C0300D | |
| Effingham County Unincorporated Areas | 170227 | 05120112 05120114 07140201 07140202 | 17049C0025D 17049C0044D 17049C0045D 17049C0050D 17049C0055D 17049C0060D 17049C0063D 17049C0064D 17049C0065D 17049C0068D 17049C0069D 17049C0070D 17049C0088D 17049C0089D 17049C0100D 17049C0125D ² 17049C0142D 17049C0150D 17049C0157D 17049C0161D 17049C0170D 17049C0175D 17049C0176D 17049C0177D 17049C0180D 17049C0181D 17049C0182D 17049C0183D 17049C0184D 17049C0187D 17049C0189D | |

¹ No Special Flood Hazard Areas Identified

² Panel Not Printed

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 |
|--|--------|--|--|--|
| Effingham County Unincorporated Areas | 170227 | 05120112 05120114 07140201 07140202 | 17049C0190D 17049C0191D 17049C0193D 17049C0195D 17049C0201D 17049C0202D 17049C0217D 17049C0225D 17049C0250D ² 17049C0275D 17049C0300D 17049C0305D 17049C0306D 17049C0310D 17049C0315D 17049C0320D 17049C0350D 17049C0375D ² | |
| Effingham, City of | 170229 | 05120114 | 17049C0064D 17049C0068D 17049C0069D 17049C0070D 17049C0176D 17049C0177D 17049C0181D 17049C0182D 17049C0183D | |
| Mason, Town of ¹ | 171108 | 05120114 | 17049C0300D 17049C0305D | |
| Montrose, Village of ^{1,3} | 170230 | 05120112 05120114 | 17049C0100D 17049C0125D ² | |
| Shumway, Village of ¹ | 171109 | 05120114 07140202 | 17049C0045D | |
| Teutopolis, Village of | 170231 | 05120114 | 17049C0069D 17049C0088D 17049C0089D 17049C0201D 17049C0202D | |

¹ No Special Flood Hazard Areas Identified

² Panel Not Printed

³ Community is also in Cumberland County

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 |
|--------------------|--------|--------------------|--|--|
| Watson, Village of | 170974 | 05120114 | 17049C0187D 17049C0189D 17049C0191D 17049C0193D | |

¹ No Special Flood Hazard Areas Identified

² Panel Not Printed

³ Community is also in Cumberland County

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-percent-annual-chance flood elevation is also referred to as the Base Flood Elevation (BFE)); delineations of the 1-percent-annual-chance and 0.2-percent-annual-chance floodplains; and 1-percent-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 30, "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 Effingham County became effective on January 17, 2025. Refer to Table 27 for information about subsequent revisions to the FIRMs.

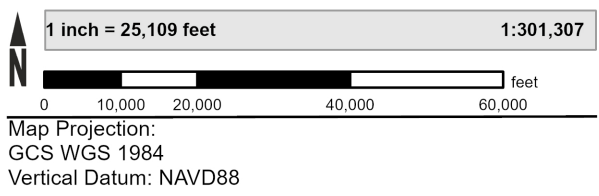
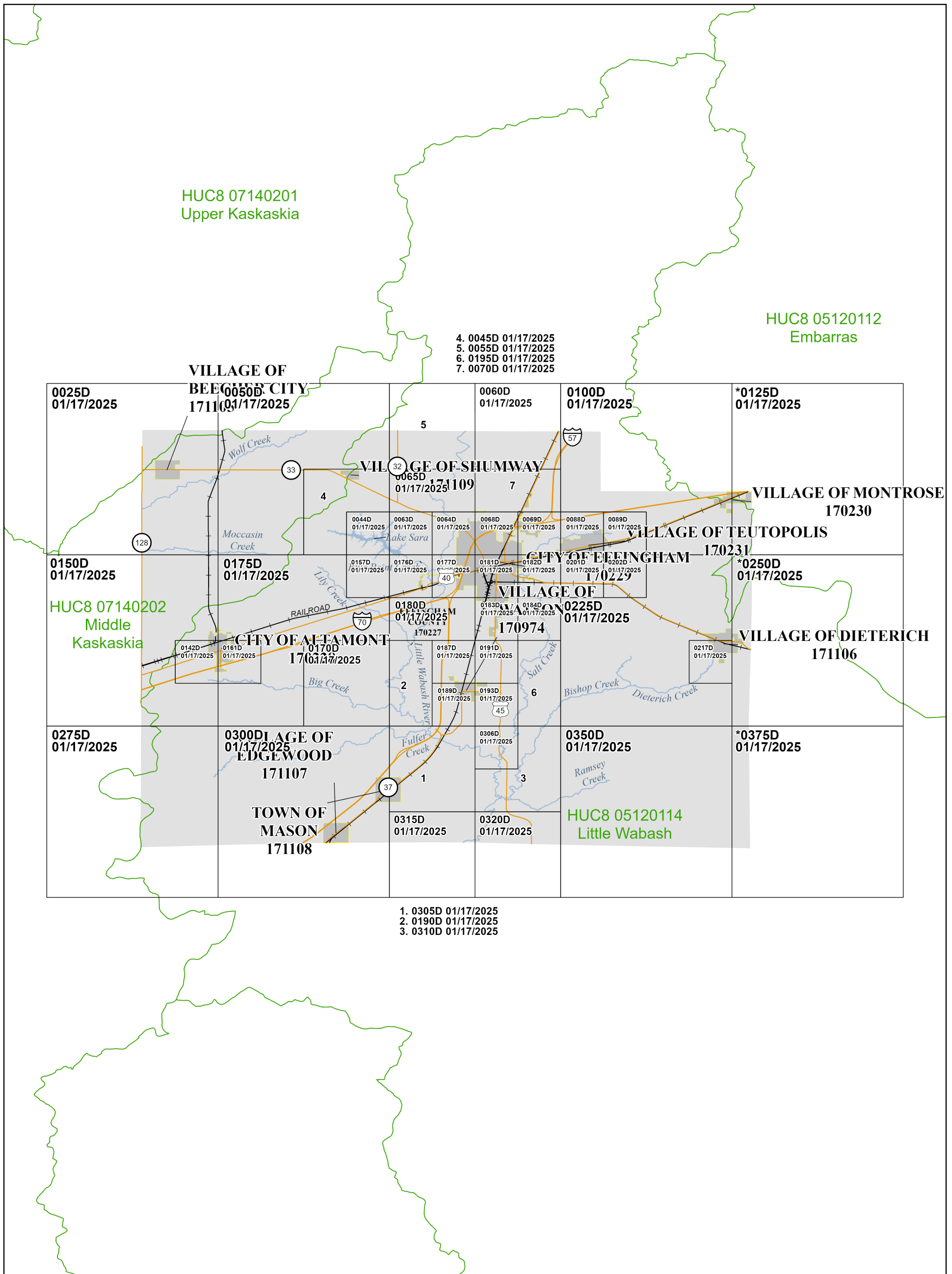
- Selected FIRM panels for the community may contain information (such as floodways and cross sections) that was previously shown separately on the corresponding Flood Boundary and Floodway Map (FBFM) panels. In addition, former flood hazard zone designations have been changed as follows:

| <u>Old Zone</u> | <u>New Zone</u> |
|-----------------|-----------------|
| A1 through A30 | AE |
| V1 through V30 | VE |
| B | X (shaded) |
| C | X (unshaded) |

- The Community Rating System (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 www.fema.gov/flood-insurance/rules-legislation/community-rating-system or contact your appropriate FEMA Regional Office for more information about this program.
- FEMA has developed a *Guide to Flood Maps* (FEMA 258) and online tutorials to assist users in accessing the information contained on the FIRM. These include how to read panels and step-by-step instructions to obtain specific information. To obtain this guide and other assistance in using the FIRM, visit the FEMA Web site at www.fema.gov/flood-maps/tutorials.

The FIRM Index in Figure 1 shows the overall FIRM panel layout within Effingham County, and also displays the panel number and effective date for each FIRM panel in the county. Other information shown on the FIRM Index includes community boundaries, flooding sources, watershed boundaries, and USGS HUC-8 codes.

Figure 1: FIRM Index




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

SEE FLOOD INSURANCE STUDY FOR ADDITIONAL INFORMATION

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP INDEX

EFFINGHAM COUNTY, ILLINOIS And Incorporated Areas

PANELS PRINTED:
0025, 0044, 0045, 0050, 0055, 0060, 0063, 0064, 0065, 0068, 0069, 0070, 0088, 0089, 0100, 0142, 0150, 0157, 0161, 0170, 0175, 0176, 0177, 0180, 0181, 0182, 0183, 0184, 0187, 0189, 0190, 0191, 0193, 0195, 0201, 0202, 0217, 0225, 0275, 0300, 0305, 0306, 0310, 0315, 0320, 0350


FEMA

MAP NUMBER
17049CIND1A

EFFECTIVE DATE
January 17, 2025

* PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREAS

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

Figure 2: FIRM Notes to Users

| |
|--|
| <p style="text-align: center;">NOTES TO USERS</p> <p>For information and questions about this Flood Insurance Rate Map (FIRM), 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 Mapping and Insurance eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at 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 Flood Map Service Center website or by calling the FEMA Mapping and Insurance eXchange.</p> <p>Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Flood Map Service Center at the number listed above.</p> <p>For community and countywide map dates, refer to Table 27 in this FIS Report.</p> <p>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.</p> |
| <p>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.</p> <p><u>BASE FLOOD ELEVATIONS:</u> 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 Non-Coastal 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.</p> <p><u>FLOODWAY INFORMATION:</u> 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.</p> <p><u>FLOOD CONTROL STRUCTURE INFORMATION:</u> Certain areas not in Special Flood Hazard Areas may have reduced flood hazards due to flood control structures. Refer to Section 4.3 "Dams and Other Flood Hazard Reduction Measures" of this FIS Report for information on flood control structures for this jurisdiction.</p> |

Figure 2. FIRM Notes to Users

PROJECTION INFORMATION: The projection used in the preparation of the map was State Plane Illinois East 1201. The horizontal datum was the North American Datum of 1983 NAD83 HARN, GRS1980 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of the FIRM.

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

Local vertical monuments may have been used to create the map. To obtain current monument information, please contact the appropriate local community listed in Table 30 of this FIS Report.

BASE MAP INFORMATION: Base map information shown on the FIRM was provided in digital format by the United States Geological Survey (USGS). The basemap shown is the USGS National Map: Orthoimagery. Last refreshed October 2020. For information about base maps, refer to Section 6.2 “Base Map” in this FIS Report.

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 Effingham County, Illinois, 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 27 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

SPECIAL NOTES FOR SPECIFIC FIRM PANELS

This Notes to Users section was created specifically for Effingham County, Illinois, effective January 17, 2025.

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.

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

Figure 3: Map Legend for FIRM



| | |
|--|--|
| SPECIAL FLOOD HAZARD AREAS: The 1% annual chance flood, also known as the base flood or 100-year flood, has a 1% chance of happening or being exceeded each year. Special Flood Hazard Areas are subject to flooding by the 1% annual chance flood. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood. The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights. See note for specific types. If the floodway is too narrow to be shown, a note is shown. | |
|  | Special Flood Hazard Areas subject to inundation by the 1% annual chance flood (Zones A, AE, AH, AO, AR, A99, V and VE) |
| Zone A | The flood insurance rate zone that corresponds to the 1% annual chance floodplains. No base (1% annual chance) flood elevations (BFEs) or depths are shown within this zone. |
| Zone AE | The flood insurance rate zone that corresponds to the 1% annual chance floodplains. Base flood elevations derived from the hydraulic analyses are shown within this zone. |
| 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

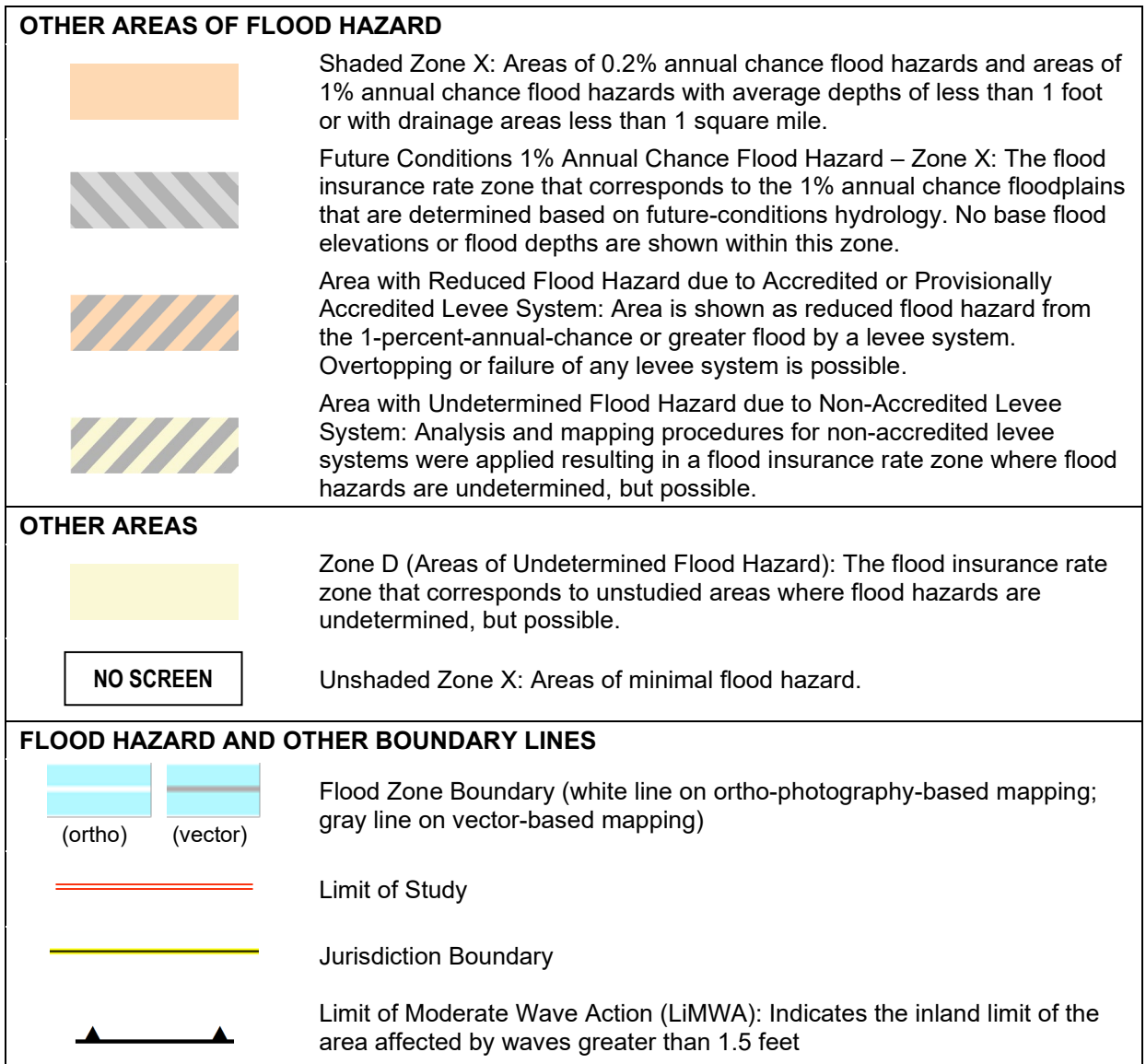


Figure 3: Map Legend for FIRM




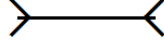

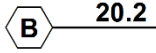
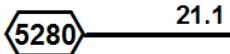
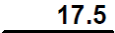
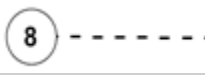








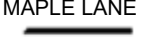
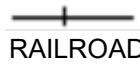



| | |
|--|---|
| GENERAL STRUCTURES | |
|  <i>Aqueduct</i> <i>Channel</i> <i>Culvert</i> <i>Storm Sewer</i> | Channel, Culvert, Aqueduct, or Storm Sewer |
|  <i>Dam</i> <i>Jetty</i> <i>Weir</i> | Dam, Jetty, Weir |
|  | Levee, Dike, or Floodwall |
|  <i>Bridge</i> | Bridge |
| REFERENCE MARKERS | |
|  22.0 | River mile Markers |
| CROSS SECTION & TRANSECT INFORMATION | |
|  | Lettered Cross Section with Regulatory Water Surface Elevation (BFE) |
|  | Numbered Cross Section with Regulatory Water Surface Elevation (BFE) |
|  | Unlettered Cross Section with Regulatory Water Surface Elevation (BFE) |
|  | 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> |
|  | Base Flood Elevation Line |
| 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

| BASE MAP FEATURES | |
|--|---|
|  <i>Missouri Creek</i> | River, Stream or Other Hydrographic Feature |
|  | Interstate Highway |
|  | U.S. Highway |
|  | State Highway |
|  | County Highway |
|  | Street, Road, Avenue Name, or Private Drive if shown on Flood Profile |
|  | 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 |
| 4276⁰⁰⁰mE | 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-percent-annual-chance (100-year) flood has been adopted by FEMA as the base flood for floodplain management purposes. The 0.2-percent-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 Effingham 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-percent-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 22), study methodologies employed (Section 5.0), and flood risk, certain flooding sources may be mapped to show both the 1-percent and 0.2-percent-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-percent-annual-chance floodplain boundary on the FIRM, without published water surface elevations. In cases where the 1-percent and 0.2-percent-annual-chance floodplain boundaries are close together, only the 1-percent-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 Effingham 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 12. 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-percent-annual-chance floodplain corresponds to the SFHAs. The 0.2-percent-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.

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) | Floodway (Y/N) | Zone shown on FIRM | Date of Analysis |
|-----------------------|--|--|--|--------------------|-------------------------------------|----------------|--------------------|------------------|
| Beech Creek | Effingham County Unincorporated Areas | Approximately 1,525 feet above confluence with Cedar Creek (At Effingham County and Fayette County Boundary / Illinois Route 128 / N 1st Street) | Approximately 3,198 feet above confluence with Cedar Creek (Approximately 1,673 feet upstream of Effingham County and Fayette County Boundary / Illinois Route 128 / N 1st Street) | 07140202 | 0.3 | N | A | 2020 |
| Big Creek | Effingham County Unincorporated Areas | Confluence with Little Wabash River | Approximately 55,875 feet upstream of confluence with Little Wabash River (Approximately 3,375 feet upstream of N 300th Street) | 05120114 | 10.6 | N | A | 2020 |
| Big Creek Tributary A | Altamont, City of; Effingham County Unincorporated Areas | Approximately 366 feet upstream of confluence with Big Creek | Approximately 9,345 feet upstream of confluence with Big Creek (Approximately 1,200 feet upstream of South Main Street / Illinois Route 128) | 05120114 | 1.7 | Y | AE | 2021 |
| Bishop Creek | Effingham County Unincorporated Areas | Confluence with Ramsey Creek | Approximately 75,058 feet upstream of confluence with Ramsey Creek (Approximately 3,375 feet upstream of E 900th Avenue (extended)) | 05120114 | 14.2 | N | A | 2018 |
| Blue Point Creek | Effingham County Unincorporated Areas | Confluence with Little Wabash River | Approximately 28,632 feet upstream of confluence with Little Wabash River (Approximately 140 feet downstream of N 700th Street) | 05120114 | 5.4 | N | A | 2020 |

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) | Floodway (Y/N) | Zone shown on FIRM | Date of Analysis |
|-----------------|---------------------------------------|---|---|--------------------|-------------------------------------|----------------|--------------------|------------------|
| Brockett Creek | Effingham County Unincorporated Areas | Confluence with Big Creek | Approximately 26,684 feet upstream of confluence with Big Creek (Approximately 1,900 feet upstream of N 475th Street) | 05120114 | 5.1 | N | A | 2020 |
| Brush Creek | Effingham County Unincorporated Areas | Confluence with Salt Creek | Approximately 6,385 feet upstream of confluence with Salt Creek | 05120114 | 1.2 | N | A | 2020 |
| Cedar Creek | Effingham County Unincorporated Areas | At Effingham County and Fayette County Boundary / Illinois Route 128 / N 1st Street | Approximately 825 feet upstream of Effingham County and Fayette County Boundary / Illinois Route 128 / N 1st Street | 07140202 | 0.2 | N | A | 2020 |
| Coon Creek | Effingham County Unincorporated Areas | Confluence with Big Creek | Approximately 23,725 feet upstream of confluence with Big Creek (Approximately 200 feet upstream of E US Route 40) | 05120114 | 4.5 | N | A | 2020 |
| Corwin Branch | Effingham County Unincorporated Areas | Confluence with Wolf Creek | Approximately 10,420 feet upstream of confluence with Wolf Creek (Approximately 210 feet upstream of E 1950th Avenue) | 07140202 | 2.0 | N | A | 2020 |
| Dieterich Creek | Effingham County Unincorporated Areas | Confluence with Bishop Creek | Approximately 20,719 feet upstream of confluence with Bishop Creek (Approximately 290 feet upstream of N 2200th Street) | 05120114 | 3.9 | N | A | 2018 |

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) | Floodway (Y/N) | Zone shown on FIRM | Date of Analysis |
|---------------------------|--|---|---|--------------------|-------------------------------------|----------------|--------------------|------------------|
| Dieterich Creek | Dieterich, Village of; Effingham County Unincorporated Areas | Approximately 20,719 feet upstream of confluence with Bishop Creek (Approximately 290 feet upstream of N 2200th Street) | Approximately 30,002 feet upstream of confluence with Bishop Creek (Approximately 2,500 feet downstream of S Main Street) | 05120114 | 1.8 | N | A | 2021 |
| East Branch Green Creek | Effingham County Unincorporated Areas | Confluence with Green Creek | Approximately 21,974 feet upstream of confluence with Green Creek (Approximately 2,280 feet upstream of E 2000th Avenue) | 05120114 | 4.2 | N | A | 2020 |
| Fulfer Creek | Effingham County Unincorporated Areas | Confluence with Little Wabash River | Approximately 72,144 feet upstream of confluence with Little Wabash River (Approximately 3,100 feet upstream of N 300th Street) | 05120114 | 13.7 | N | A | 2020 |
| Fulfer Creek Tributary A | Effingham County Unincorporated Areas | Confluence with Fulfer Creek | Approximately 7,343 feet upstream of confluence with Fulfer Creek (Approximately 90 feet upstream of N 300th Street) | 05120114 | 1.4 | N | A | 2020 |
| Fulfer Creek Tributary A1 | Effingham County Unincorporated Areas | Confluence with Fulfer Creek Tributary A | Approximately 2,619 feet upstream of confluence with Fulfer Creek Tributary A (Approximately 100 feet upstream of E 500th Avenue) | 05120114 | 0.5 | N | A | 2020 |

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) | Floodway (Y/N) | Zone shown on FIRM | Date of Analysis |
|---------------------|---------------------------------------|-------------------------------------|---|--------------------|-------------------------------------|----------------|--------------------|------------------|
| Green Creek | Effingham County Unincorporated Areas | Confluence with Little Wabash River | Approximately 35,422 feet upstream of confluence with Little Wabash River (At Effingham County and Shelby County Boundary / Just downstream of E 2100th Avenue) | 05120114 | 6.7 | N | A | 2020 |
| Henry Creek | Effingham County Unincorporated Areas | Confluence with Green Creek | Approximately 8,819 feet upstream of confluence with Green Creek (At Effingham County and Shelby County Boundary / Just downstream of E 2100th Avenue) | 05120114 | 1.7 | N | A | 2020 |
| Lily Creek | Effingham County Unincorporated Areas | Confluence with Little Wabash River | Approximately 35,602 feet upstream of confluence with Little Wabash River (Approximately 3,125 feet upstream of E 1350th Avenue) | 05120114 | 6.7 | N | A | 2020 |
| Limestone Creek | Effingham County Unincorporated Areas | Confluence with Fulfer Creek | Approximately 23,141 feet upstream of confluence with Fulfer Creek (Approximately 3,220 feet upstream of E 250th Avenue) | 05120114 | 4.4 | N | A | 2020 |
| Little Bishop Creek | Effingham County Unincorporated Areas | Confluence with Bishop Creek | Approximately 17,640 feet upstream of confluence with Bishop Creek (Approximately 7,000 feet upstream of N 1700th Street) | 05120114 | 3.3 | N | A | 2018 |

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) | Floodway (Y/N) | Zone shown on FIRM | Date of Analysis |
|---------------------------------|---|--|---|--------------------|-------------------------------------|----------------|--------------------|------------------|
| Little Salt Creek | Effingham County Unincorporated Areas | Confluence with Salt Creek | Approximately 56,499 feet upstream of confluence with Salt Creek (Approximately 600 feet downstream of E 1300th Avenue) | 05120114 | 10.7 | N | A | 2020 |
| Little Wabash River | Effingham County Unincorporated Areas; Effingham, City of | Approximately 918,071 feet upstream of confluence with Wabash River (Approximately 920 feet downstream of Effingham County and Clay County Boundary / E 1st Avenue extended) | Approximately 1,111,532 feet upstream of confluence with Wabash River (At Effingham County and Shelby County Boundary / E 2100th Avenue extended) | 05120114 | 36.5 | N | A | 2019 |
| Little Wabash River Tributary M | Effingham County Unincorporated Areas | Confluence with Little Wabash River | Approximately 6,750 feet upstream of confluence with Little Wabash River | 05120114 | 1.3 | N | A | 2020 |
| Little Wabash River Tributary N | Effingham County Unincorporated Areas; Effingham, City of | Approximately 2,869 feet upstream of confluence with Little Wabash River (Approximately 2,135 feet downstream of North Outer Belt West) | Approximately 9,850 feet upstream of confluence with Little Wabash River (Approximately 2,550 feet upstream of Interstate 70 / Interstate 57) | 05120114 | 1.3 | Y | AE | 2021 |

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) | Floodway (Y/N) | Zone shown on FIRM | Date of Analysis |
|-----------------------------------|---------------------------------------|---|--|--------------------|-------------------------------------|----------------|--------------------|------------------|
| Little Wabash River Tributary N1 | Effingham, City of | Confluence with Little Wabash River Tributary N | Approximately 6,852 feet upstream of confluence with Little Wabash River Tributary N (Approximately 580 feet upstream of North Maple Street) | 05120114 | 1.3 | Y | AE | 2021 |
| Little Wabash River Tributary N1a | Effingham, City of | Confluence with Little Wabash River Tributary N1 | Approximately 1,943 feet upstream of confluence with Little Wabash River Tributary N1 (Just downstream of Hampton Drive) | 05120114 | 0.4 | Y | AE | 2021 |
| Little Wabash River Tributary O | Effingham County Unincorporated Areas | Approximately 1,616 feet upstream of confluence with Little Wabash River | Approximately 1,917 feet upstream of confluence with Little Wabash River (Just downstream of Lake Pauline) | 05120114 | 0.06 | Y | AE | 2021 |
| Moccasin Creek | Effingham County Unincorporated Areas | At Effingham County and Fayette County Boundary / Illinois Route 128 / N 1st Street | Approximately 33,463 feet upstream of Effingham County and Fayette County Boundary / Illinois Route 128 / N 1st Street (Approximately 500 feet downstream of N 500th Street) | 07140202 | 6.3 | N | A | 2020 |
| Morris Creek | Effingham County Unincorporated Areas | Confluence with Wolf Creek | Approximately 7,151 feet upstream of confluence with Wolf Creek (Approximately 5,775 feet upstream E 2000th Avenue) | 07140202 | 1.4 | N | A | 2020 |

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) | Floodway (Y/N) | Zone shown on FIRM | Date of Analysis |
|------------------------|---|---|--|--------------------|-------------------------------------|----------------|--------------------|------------------|
| North Fork Shoal Creek | Effingham County Unincorporated Areas | Confluence with Shoal Creek | Approximately 12,139 feet upstream of confluence with Shoal Creek (Approximately 5,175 feet upstream of E 2000th Avenue) | 05120114 | 2.3 | N | A | 2020 |
| Ramsey Creek | Effingham County Unincorporated Areas | Confluence with Little Wabash River | Approximately 34,018 feet upstream of confluence with Little Wabash River (Approximately 2,400 feet upstream of N 1800th Street) | 05120114 | 6.4 | N | A | 2018 |
| Salt Creek | Effingham County Unincorporated Areas; Effingham, City of; Teutopolis, Village of | Approximately 57,480 feet upstream of confluence with Little Wabash (Approximately 385 feet upstream of East 1050th Road) | Approximately 109,429 feet upstream of confluence with Little Wabash (Approximately 1,760 feet upstream of North 1800th Street) | 05120114 | 9.8 | Y | AE | 2021 |
| Salt Creek | Effingham County Unincorporated Areas | Confluence with Little Wabash River | Approximately 57,480 feet upstream of confluence with Little Wabash River (Approximately 390 feet upstream of E 1050th Road) | 05120114 | 10.9 | N | A | 2020 |
| Salt Creek Tributary A | Effingham County Unincorporated Areas; Watson, Village of | Approximately 3,148 feet upstream of confluence with Salt Creek (Approximately 90 feet downstream of U.S. Route 45) | Approximately 33,374 feet upstream of confluence with Salt Creek (Approximately 700 feet upstream of Railroad) | 05120114 | 5.7 | Y | AE | 2021 |

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) | Floodway (Y/N) | Zone shown on FIRM | Date of Analysis |
|-------------------------|---|--|--|--------------------|-------------------------------------|----------------|--------------------|------------------|
| Salt Creek Tributary A1 | Effingham County Unincorporated Areas; Watson, Village of | Confluence with Salt Creek Tributary A | Approximately 2,830 feet upstream of confluence with Salt Creek Tributary A (Approximately 1,600 feet upstream of Access Road) | 05120114 | 0.5 | Y | AE | 2021 |
| Salt Creek Tributary A2 | Effingham County Unincorporated Areas; Watson, Village of | Confluence with Salt Creek Tributary A | Approximately 8,822 feet upstream of confluence with Salt Creek Tributary A (Approximately 170 feet upstream of North 1200th Street) | 05120114 | 1.7 | Y | AE | 2021 |
| Salt Creek Tributary B | Effingham County Unincorporated Areas | Confluence with Salt Creek | Approximately 9,483 feet upstream of confluence with Salt Creek (Approximately 1,770 feet upstream of E Dutch Lane) | 05120114 | 1.8 | N | A | 2020 |
| Salt Creek Tributary C | Effingham County Unincorporated Areas; Effingham, City of | Confluence with Salt Creek | Approximately 7,977 feet upstream of confluence with Salt Creek (Approximately 1,400 feet upstream of U.S. Route 45 / South Banker Street) | 05120114 | 1.5 | Y | AE | 2021 |
| Salt Creek Tributary D | Effingham, City of | Confluence with Salt Creek | Approximately 4,663 feet upstream of confluence with Salt Creek (Approximately 785 feet upstream of East Wabash Avenue) | 05120114 | 0.9 | Y | AE | 2021 |

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) | Floodway (Y/N) | Zone shown on FIRM | Date of Analysis |
|-------------------------|---|--|---|--------------------|-------------------------------------|----------------|--------------------|------------------|
| Salt Creek Tributary E | Effingham County Unincorporated Areas; Teutopolis, Village of | Confluence with Salt Creek | Approximately 20,236 feet upstream of confluence with Salt Creek (Approximately 230 feet upstream of South Oak Street) | 05120114 | 3.8 | Y | AE | 2021 |
| Salt Creek Tributary F | Effingham County Unincorporated Areas; Effingham, City of | Confluence with Salt Creek | Approximately 2,840 feet upstream of confluence with Salt Creek (Approximately 1,500 feet upstream of Access Road) | 05120114 | 0.5 | Y | AE | 2021 |
| Salt Creek Tributary G | Effingham County Unincorporated Areas; Effingham, City of | Confluence with Salt Creek | Approximately 8,052 feet upstream of confluence with Salt Creek (Just downstream of Technology Drive) | 05120114 | 1.5 | Y | AE | 2021 |
| Salt Creek Tributary G1 | Effingham County Unincorporated Areas; Effingham, City of | Confluence with Salt Creek Tributary G | Approximately 5,849 feet upstream of confluence with Salt Creek (Approximately 980 feet upstream of West Evergreen Avenue) | 05120114 | 1.1 | Y | AE | 2021 |
| Second Creek | Effingham County Unincorporated Areas | Confluence with Little Wabash River | Approximately 52,291 feet upstream of confluence with Little Wabash River (Approximately 615 feet upstream of N 450th Street) | 05120114 | 9.9 | N | A | 2020 |

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) | Floodway (Y/N) | Zone shown on FIRM | Date of Analysis |
|--------------------------|---------------------------------------|-------------------------------------|--|--------------------|-------------------------------------|----------------|--------------------|------------------|
| Second Creek Tributary A | Effingham County Unincorporated Areas | Confluence with Second Creek | Approximately 5,292 feet upstream of confluence with Second Creek (Approximately 4,700 feet upstream of E 925th Avenue) | 05120114 | 1.0 | N | A | 2020 |
| Second Creek Tributary B | Effingham County Unincorporated Areas | Confluence with Second Creek | Approximately 10,789 feet upstream of confluence with Second Creek (Approximately 900 feet upstream of Interstate 70) | 05120114 | 2.0 | N | A | 2020 |
| Second Salt Creek | Effingham County Unincorporated Areas | Confluence with Salt Creek | Approximately 18,029 feet upstream of confluence with Salt Creek (Just downstream of E 1800th Avenue (extended) / Effingham County and Cumberland County Boundary) | 05120114 | 3.4 | N | A | 2020 |
| Shoal Creek | Effingham County Unincorporated Areas | Confluence with Little Wabash River | Approximately 17,557 feet upstream of confluence with Little Wabash River (Approximately 3,925 feet upstream of Illinois Route 32) | 05120114 | 3.3 | N | A | 2020 |
| Sugar Fork | Effingham County Unincorporated Areas | Confluence with Green Creek | Approximately 10,827 feet upstream of confluence with Green Creek (Just downstream of N 1500th Street) | 05120114 | 2.1 | N | A | 2020 |

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) | Floodway (Y/N) | Zone shown on FIRM | Date of Analysis |
|------------------------|---------------------------------------|---|---|--------------------|-------------------------------------|----------------|--------------------|------------------|
| Wolf Creek | Effingham County Unincorporated Areas | At Effingham County and Fayette County Boundary / Illinois Route 128 / N 1st Street | Approximately 53,324 feet upstream of Effingham County and Fayette County Boundary / Illinois Route 128 / N 1st Street (At Effingham County and Shelby County Boundary / E 2100th Avenue) | 07140202 | 10.1 | N | A | 2020 |
| Wolf Creek Tributary A | Effingham County Unincorporated Areas | Confluence with Wolf Creek | Approximately 14,513 feet upstream of confluence with Wolf Creek (Approximately 7,880 feet upstream of E 1800th Street) | 07140202 | 2.7 | N | A | 2020 |
| Wolf Creek Tributary B | Effingham County Unincorporated Areas | Confluence with Wolf Creek | Approximately 5,163 feet upstream of confluence with Wolf Creek (At Effingham County and Shelby County Boundary / E 2100th Avenue) | 07140202 | 1.0 | N | A | 2020 |

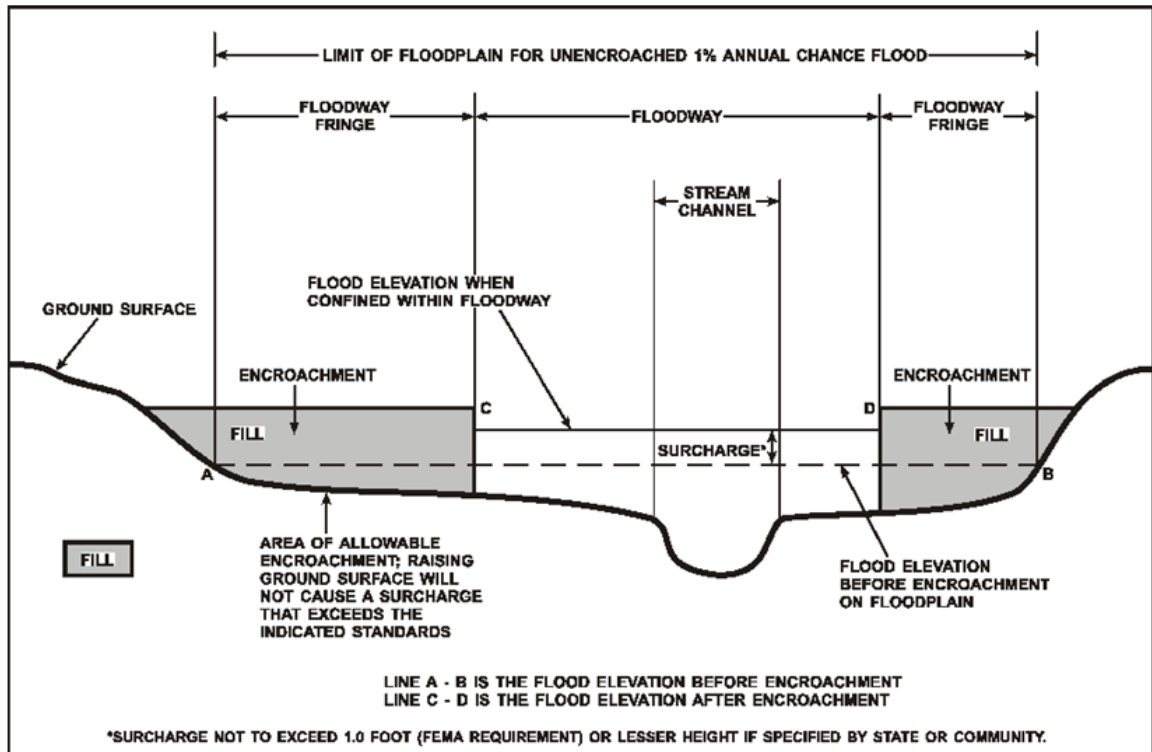
2.2 Floodways

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-percent-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-percent-annual-chance flood. The floodway fringe is the area between the floodway and the 1-percent-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-percent-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 Illinois require communities in Effingham County to limit increases caused by encroachment to 0.1 foot, no more than a 10 percent reduction in floodplain volume, and no more than a 10 percent increase in average velocity. The floodways in this project are presented to local agencies as minimum standards that can be adopted directly or that can be used as a basis for additional floodway projects.

Figure 4: Floodway Schematic



Floodway widths presented in this FIS Report and on the FIRM were computed at cross sections. Between cross sections, the floodway boundaries were interpolated. For certain stream segments, floodways were adjusted so that the amount of floodwaters conveyed on each side of the floodplain would be reduced equally. The results of the floodway computations have been tabulated for selected cross sections and are shown in Table 23, "Floodway Data."

All floodways that were developed for this Flood Risk Project are shown on the FIRM using the symbology described in Figure 3. In cases where the floodway and 1-percent-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 BFE is the elevation of the 1-percent-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.

BFEs are primarily intended for flood insurance rating purposes. 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. 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. For example, the user may use the FIRM to determine the stream station of a location of interest and then use the profile to determine the 1-percent annual chance elevation at that location. Because only selected cross sections may be shown on the FIRM for riverine areas, the profile should be used to obtain the flood elevation between mapped cross sections. Additionally, for riverine areas, whole-foot elevations shown on the FIRM may not exactly reflect the elevations derived from the hydraulic analyses; therefore, elevations obtained from the profile may more accurately reflect the results of the hydraulic analysis.

2.4 Non-Encroachment Zones

This section is not applicable to this Flood Risk Project.

2.5 Coastal Flood Hazard Areas

This section is not applicable to this Flood Risk Project.

2.5.1 Water Elevations and the Effects of Waves

This section is not applicable to this Flood Risk Project.

Figure 5: Wave Runup Transect Schematic

[Not applicable to this Flood Risk Project]

2.5.2 Floodplain Boundaries and BFEs for Coastal Areas

This section is not applicable to this Flood Risk Project.

2.5.3 Coastal High Hazard Areas

This section is not applicable to this Flood Risk Project.

Figure 6: Coastal Transect Schematic

[Not applicable to this Flood Risk Project]

2.5.4 Limit of Moderate Wave Action

This section is not applicable to this Flood Risk Project.

SECTION 3.0 – INSURANCE APPLICATIONS

3.1 National Flood Insurance Program Insurance Zones

For flood insurance applications, the FIRM designates flood insurance rate zones as described in Figure 3, “Map Legend for FIRM.” Flood insurance zone designations are

assigned to flooding sources based on the results of the hydraulic or coastal analyses. Insurance agents use the zones shown on the FIRM and depths and base flood elevations in this FIS Report in conjunction with information on structures and their contents to assign premium rates for flood insurance policies.

The 1-percent-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-percent-annual-chance floodplain boundary corresponds to the boundary of areas of additional flood hazards.

Table 3 lists the flood insurance zones in Effingham County.

Table 3: Flood Zone Designations by Community

| Community | Flood Zone(s) |
|---------------------------------------|---------------|
| Altamont, City of | AE, X |
| Beecher City, Village of | X |
| Dieterich, Village of | A, X |
| Edgewood, Village of | X |
| Effingham County Unincorporated Areas | A, AE, X |
| Effingham, City of | A, AE, X |
| Mason, Town of | X |
| Montrose, Village of | X |
| Shumway, Village of | X |
| Teutopolis, Village of | AE, X |
| Watson, Village of | AE, X |

SECTION 4.0 – AREA STUDIED

4.1 Basin Description

Table 4 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 4: Basin Characteristics

| HUC-8 Sub-Basin Name | HUC-8 Sub-Basin Number | Primary Flooding Source | Description of Affected Area | Drainage Area (square miles) |
|----------------------|------------------------|-------------------------|---|------------------------------|
| Embarras | 05120112 | Embarras River | Located in the northeast corner of the county, covers approximately 1% of Effingham County with 4 square miles | 2,430 |
| Little Wabash | 05120114 | Little Wabash River | Largest watershed in Effingham County, covers approximately 85% of the county with 410 square miles | 2,120 |
| Middle Kaskaskia | 07140202 | Kaskaskia River | Located in the western portion of the county, covers approximately 13% of Effingham County with 64 square miles | 1,680 |
| Upper Kaskaskia | 07140201 | Kaskaskia River | Located in the northwest corner of the county, covers less than 1% of Effingham County with 2 square miles | 1,540 |

4.2 Principal Flood Problems

Table 5 contains a description of the principal flood problems that have been noted for Effingham County by flooding source.

Table 5: Principal Flood Problems

| Flooding Source | Description of Flood Problems |
|---------------------|--|
| Little Wabash River | Flooding in the Little Wabash River watershed often results during general heavy rains over the entire basin. According to the 2020 Effingham County Multi-Jurisdictional All Hazards Mitigation Plan, the record setting Little Wabash River flood in this area occurred on May 12, 2002 when the Little Wabash River crested at 24.27 feet near Effingham. The second and third highest crest at this location occurred in May 8, 1996 and July 5, 2000 respectively. |
| Salt Creek | Heavy rains over the last weekend of April 2017 led to flooding throughout the region. Between 4/26 and the afternoon of Sunday 4/30, over 5 inches of rain had been reported with another inch still expected to fall. Salt Creek was reported to have left its banks at several places. After heavy rain in May 2019, the Effingham County Highway Commissioner reported that all of the Salt Creek systems North and East of Teutopolis were flooded and impassable, including some side streets. |

Table 6 contains information about historic flood elevations in the communities within Effingham County.

Table 6: Historic Flooding Elevations

| Flooding Source | Location | Historic Peak (Feet NAVD88) | Event Date | Approximate Recurrence Interval (years) | Source of Data |
|-----------------|---------------------------------|-----------------------------|------------|---|-------------------|
| Salt Creek | 900 feet downstream of Route 33 | 539.42 | 6/7/2008 | | City of Effingham |
| Salt Creek | Just downstream of Route 33 | 539.6 | 6/7/2008 | | City of Effingham |
| Salt Creek | Just downstream of Route 40 | 544.87 | 6/7/2008 | | City of Effingham |
| Salt Creek | Just upstream of Route 33 | 540.64 | 6/7/2008 | | City of Effingham |
| Salt Creek | Just upstream of Route 40 | 545.48 | 6/7/2008 | | City of Effingham |

4.3 Dams and Other Flood Hazard Reduction Measures

Table 7 contains information about non-levee flood hazard reduction measures within Effingham County such as dams or jetties. Levee systems are addressed in Section 4.4 of this FIS Report.

Table 7: Dams and Other Flood Hazard Reduction Measures

[Not applicable to this Flood Risk Project]

4.4 Levee Systems

This section is not applicable to this Flood Risk Project.

Table 8: Levee Systems

[Not applicable to this Flood Risk 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-percent-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.

In addition to these flood events, the “1-percent-plus”, or “1%+”, annual chance flood elevation has been modeled and included on the flood profile for certain flooding sources in this FIS Report. While not used for regulatory or insurance purposes, this flood event has been calculated to help illustrate the variability range that exists between the regulatory 1-percent-annual-chance flood elevation and a 1-percent-annual-chance elevation that has taken into account an additional amount of uncertainty in the flood discharges (thus, the 1% “plus”). For flooding sources whose discharges were estimated using regression equations, the 1%+ flood elevations are derived by taking the 1-percent-annual-chance flood discharges and increasing the modeled discharges by a percentage equal to the average predictive error for the regression equation. For flooding sources with gage- or rainfall-runoff-based discharge estimates, the upper 84-percent confidence limit of the discharges is used to compute the 1%+ flood elevations.

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 12. Greater detail (including assumptions, analysis, and results) is available in the archived project documentation.

A summary of the discharges is provided in Table 9. A summary of stillwater elevations developed for non-coastal flooding sources is provided in Table 10. Stream gage information is provided in Table 11.

Table 9: 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 |
| Big Creek Tributary A | Just upstream of Interstate 70 | 2.2 | 670 | 929 | 1,180 | 1,556 | 2,525 |
| Big Creek Tributary A | Approximately 1,000 feet upstream of Interstate 70 | 2.0 | 568 | 777 | 982 | 1,296 | 2,186 |
| Big Creek Tributary A | Approximately 250 feet upstream of South Main Street / Illinois Route 128 | 1.5 | 423 | 574 | 719 | 946 | 1,588 |
| Little Wabash River Tributary N | At the confluence with Little Wabash River | 2.7 | 1,094 | 1,410 | 1,675 | 2,018 | 2,714 |
| Little Wabash River Tributary N | At North Outer Belt West | 2.1 | 982 | 1,288 | 1,525 | 1,842 | 2,518 |
| Little Wabash River Tributary N | Just upstream of Interstate 70 / Interstate 57 | 0.5 | 280 | 380 | 452 | 570 | 782 |
| Little Wabash River Tributary N1 | At confluence with Little Wabash River Tributary N | 1.4 | 706 | 913 | 1,101 | 1,273 | 1,802 |
| Little Wabash River Tributary N1 | Just upstream of confluence with Little Wabash River Tributary N1a | 0.8 | 418 | 551 | 732 | 891 | 1,201 |
| Little Wabash River Tributary N1 | Approximately 900 feet upstream of North Henrietta Street | 0.5 | 274 | 374 | 469 | 611 | 1,011 |

Table 9: 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 |
| Little Wabash River Tributary N1 | At West Temple Avenue | 0.3 | 156 | 214 | 270 | 355 | 593 |
| Little Wabash River Tributary N1a | At confluence with Little Wabash River Tributary N1 | 0.4 | 192 | 260 | 325 | 421 | 690 |
| Little Wabash River Tributary O | At confluence with Little Wabash River | 0.9 | 70 | 101 | 132 | 175 | 366 |
| Salt Creek | Approximately 4,800 feet upstream of East 1050th Road | 43.6 | 4,990 | 6,611 | 8,243 | 10,718 | 18,051 |
| Salt Creek | Approximately 3,800 feet downstream of Railroad | 39.1 | 4,925 | 6,471 | 8,031 | 10,442 | 17,464 |
| Salt Creek | Just upstream of confluence with Salt Creek Tributary D | 36.2 | 4,833 | 6,315 | 7,843 | 10,230 | 17,139 |
| Salt Creek | Just upstream of confluence with Salt Creek Tributary F | 31.6 | 4,540 | 5,888 | 7,344 | 9,628 | 15,952 |
| Salt Creek | Just upstream of confluence with Salt Creek Tributary G | 27.0 | 4,063 | 5,172 | 6,530 | 8,464 | 13,996 |
| Salt Creek | Just upstream of North 1600th Street | 23.0 | 3,604 | 4,573 | 5,766 | 7,435 | 12,213 |
| Salt Creek | Approximately 850 feet upstream of North Green Street | 11.7 | 1,991 | 2,452 | 3,075 | 3,938 | 6,296 |
| Salt Creek Tributary A | At confluence with Salt Creek | 11.2 | 1,859 | 2,378 | 2,936 | 3,862 | 6,317 |
| Salt Creek Tributary A | Approximately 4,300 feet upstream of U.S. Route 45 | 9.6 | 1,654 | 2,126 | 2,627 | 3,386 | 5,475 |

Table 9: 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 |
| Salt Creek Tributary A | Approximately 4,900 feet upstream of U.S. Route 45 | 9.1 | 1,568 | 2,031 | 2,503 | 3,217 | 5,161 |
| Salt Creek Tributary A | Approximately 3,000 feet downstream of Illinois Route 37 | 8.2 | 1,467 | 1,923 | 2,357 | 3,015 | 4,787 |
| Salt Creek Tributary A | Just upstream of confluence with Salt Creek Tributary A1 | 7.2 | 1,297 | 1,715 | 2,110 | 2,680 | 4,246 |
| Salt Creek Tributary A | Just upstream of confluence with Salt Creek Tributary A2 | 4.4 | 801 | 1,058 | 1,298 | 1,621 | 2,555 |
| Salt Creek Tributary A | Approximately 3,700 feet upstream of East 825th Avenue | 3.0 | 559 | 735 | 908 | 1,134 | 1,783 |
| Salt Creek Tributary A | Just upstream of Railroad | 2.2 | 445 | 585 | 717 | 904 | 1,414 |
| Salt Creek Tributary A1 | At confluence with Salt Creek Tributary A | 0.9 | 171 | 267 | 352 | 478 | 834 |
| Salt Creek Tributary A1 | Approximately 2,000 feet upstream of the confluence with Salt Creek Tributary A | 0.6 | 139 | 195 | 250 | 333 | 560 |
| Salt Creek Tributary A2 | At confluence with Salt Creek Tributary A2 | 2.4 | 452 | 611 | 764 | 980 | 1,555 |
| Salt Creek Tributary A2 | Approximately 800 upstream of confluence with Salt Creek Tributary A2 | 2.1 | 392 | 527 | 659 | 844 | 1,344 |
| Salt Creek Tributary A2 | Approximately 100 feet upstream of Railroad | 1.4 | 282 | 376 | 466 | 593 | 939 |
| Salt Creek Tributary C | Approximately 1,700 feet upstream of confluence with Salt Creek | 1.4 | 553 | 747 | 933 | 1,202 | 1,974 |

Table 9: 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 |
| Salt Creek Tributary C | Approximately 850 feet downstream of Hoffman Drive | 0.8 | 390 | 523 | 650 | 830 | 1,347 |
| Salt Creek Tributary C | Just upstream of South Banker Street / U.S. Route 45 | 0.5 | 235 | 318 | 398 | 513 | 828 |
| Salt Creek Tributary D | At confluence with Salt Creek | 1.1 | 424 | 577 | 720 | 926 | 1,457 |
| Salt Creek Tributary D | Approximately 1,000 feet upstream of confluence with Salt Creek | 1.0 | 374 | 508 | 634 | 815 | 1,283 |
| Salt Creek Tributary D | Just upstream of East Wabash Avenue | 0.6 | 277 | 373 | 466 | 596 | 958 |
| Salt Creek Tributary E | At confluence with Salt Creek | 3.4 | 682 | 944 | 1,185 | 1,521 | 2,472 |
| Salt Creek Tributary E | Just upstream of North 1600th Street | 2.8 | 588 | 806 | 1,010 | 1,298 | 2,084 |
| Salt Creek Tributary E | Approximately 1,750 feet upstream of North 1600th Street | 2.2 | 426 | 581 | 724 | 928 | 1,468 |
| Salt Creek Tributary E | Approximately 3,900 feet upstream of North 1600th Street | 1.9 | 345 | 458 | 560 | 709 | 1,183 |
| Salt Creek Tributary E | Approximately 250 feet upstream of North 1750th Street | 1.0 | 208 | 280 | 348 | 446 | 716 |
| Salt Creek Tributary F | At confluence with Salt Creek | 0.3 | 110 | 164 | 217 | 297 | 533 |
| Salt Creek Tributary G | At confluence with Salt Creek | 4.2 | 745 | 1,004 | 1,244 | 1,568 | 2,464 |

Table 9: 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 |
| Salt Creek Tributary G | Approximately 525 feet upstream of East Evergreen Avenue | 2.7 | 558 | 758 | 946 | 1,215 | 1,963 |
| Salt Creek Tributary G1 | At confluence with Salt Creek Tributary G | 1.1 | 221 | 299 | 366 | 491 | 857 |
| Salt Creek Tributary G1 | Just upstream of Railroad | 0.9 | 133 | 185 | 234 | 307 | 507 |

Figure 7: Frequency Discharge-Drainage Area Curves

[Not applicable to this Flood Risk Project]

Table 10: Summary of Non-Coastal Stillwater Elevations

| Flooding Source | Location | Elevation (FT NAVD88) | | | | |
|-----------------|-----------------|-----------------------|------------------|------------------|------------------|--------------------|
| | | 10% Annual Chance | 4% Annual Chance | 2% Annual Chance | 1% Annual Chance | 0.2% Annual Chance |
| Lake Pauline | At Lake Pauline | 572.0 | 572.4 | 572.8 | 573.2 | 574.3 |

Table 11: Stream Gage Information used to Determine Discharges

| Flooding Source | Gage Identifier | Agency that Maintains Gage | Site Name | Drainage Area | Period of Record | |
|---------------------|-----------------|----------------------------|---|---------------|------------------|-----------|
| | | | | | From | To |
| Little Wabash River | 03381500 | USGS | LITTLE WABASH RIVER AT CARMIL, IL | 3,102 | 10/1/1939 | 5/8/2017 |
| Little Wabash River | 03379500 | USGS | LITTLE WABASH RIVER BELOW CLAY CITY, IL | 1,131 | 8/22/1914 | 9/30/2017 |
| Little Wabash River | 03378900 | USGS | LITTLE WABASH RIVER AT LOUISVILLE, IL | 745 | 8/9/1965 | 10/1/1992 |
| Little Wabash River | 03378635 | USGS | LITTLE WABASH RIVER NEAR EFFINGHAM, IL | 240 | 10/1/1966 | 5/4/2017 |

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 in Table 23, "Floodway Data."

A summary of the methods used in hydraulic analyses performed for this project is provided in Table 12. Roughness coefficients are provided in Table 13. 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 12: 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 | | | | | |
| Beech Creek | Approximately 1,525 feet above confluence with Cedar Creek (At Effingham County and Fayette County Boundary / Illinois Route 128 / N 1st Street) | Approximately 3,198 feet above confluence with Cedar Creek (Approximately 1,673 feet upstream of Effingham County and Fayette County Boundary / Illinois Route 128 / N 1st Street) | Regression Equations | HEC-RAS 3.1.1 and up | 1/6/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Big Creek | Confluence with Little Wabash River | Approximately 55,875 feet upstream of confluence with Little Wabash River (Approximately 3,375 feet upstream of N 300th Street) | Regression Equations | HEC-RAS 3.1.1 and up | 4/29/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Big Creek Tributary A | Approximately 366 feet upstream of confluence with Big Creek | Approximately 9,345 feet upstream of confluence with Big Creek (Approximately 1,200 feet upstream of South Main Street / Illinois Route 128) | HEC-HMS 3.0 and up (Dec 2005) | HEC-RAS 3.1.1 and up | 5/17/2021 | AE w/ Floodway | HEC-RAS v. 5.0.7, 1D Steady Flow; HEC-HMS v. 3.5, ISWS Bulletin 70, NRCS Curve Number; labeled as Unnamed Str on City of Altamont FIRM |

Table 12: 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 | | | | | |
| Bishop Creek | Confluence with Ramsey Creek | Approximately 75,058 feet upstream of confluence with Ramsey Creek (Approximately 3,375 feet upstream of E 900th Avenue (extended)) | Regression Equations | HEC-RAS 3.1.1 and up | 11/12/2018 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Blue Point Creek | Confluence with Little Wabash River | Approximately 28,632 feet upstream of confluence with Little Wabash River (Approximately 140 feet downstream of N 700th Street) | Regression Equations | HEC-RAS 3.1.1 and up | 5/14/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Brockett Creek | Confluence with Big Creek | Approximately 26,684 feet upstream of confluence with Big Creek (Approximately 1,900 feet upstream of N 475th Street) | Regression Equations | HEC-RAS 3.1.1 and up | 4/29/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Brush Creek | Confluence with Salt Creek | Approximately 6,385 feet upstream of confluence with Salt Creek | Regression Equations | HEC-RAS 3.1.1 and up | 5/19/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |

Table 12: 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 | | | | | |
| Cedar Creek | At Effingham County and Fayette County Boundary / Illinois Route 128 / N 1st Street | Approximately 825 feet upstream of Effingham County and Fayette County Boundary / Illinois Route 128 / N 1st Street | Regression Equations | HEC-RAS 3.1.1 and up | 1/6/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Coon Creek | Confluence with Big Creek | Approximately 23,725 feet upstream of confluence with Big Creek (Approximately 200 feet upstream of E US Route 40) | Regression Equations | HEC-RAS 3.1.1 and up | 4/29/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Corwin Branch | Confluence with Wolf Creek | Approximately 10,420 feet upstream of confluence with Wolf Creek (Approximately 210 feet upstream of E 1950th Avenue) | Regression Equations | HEC-RAS 3.1.1 and up | 1/6/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |

Table 12: 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 | | | | | |
| Dieterich Creek | Confluence with Bishop Creek | Approximately 20,719 feet upstream of confluence with Bishop Creek (Approximately 290 feet upstream of N 2200th Street) | Regression Equations | HEC-RAS 3.1.1 and up | 11/12/2018 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Dieterich Creek | Approximately 20,719 feet upstream of confluence with Bishop Creek (Approximately 290 feet upstream of N 2200th Street) | Approximately 30,002 feet upstream of confluence with Bishop Creek (Approximately 2,500 feet downstream of S Main Street) | Regression Equations | HEC-RAS 3.1.1 and up | 7/30/2021 | A | HEC-RAS v. 5.0.7, 1D Steady Flow; USGS StreamStats 2004, Rural |
| East Branch Green Creek | Confluence with Green Creek | Approximately 21,974 feet upstream of confluence with Green Creek (Approximately 2,280 feet upstream of E 2000th Avenue) | Regression Equations | HEC-RAS 3.1.1 and up | 5/14/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |

Table 12: 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 | | | | | |
| Fulfer Creek | Confluence with Little Wabash River | Approximately 72,144 feet upstream of confluence with Little Wabash River (Approximately 3,100 feet upstream of N 300th Street) | Regression Equations | HEC-RAS 3.1.1 and up | 4/29/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Fulfer Creek Tributary A | Confluence with Fulfer Creek | Approximately 7,343 feet upstream of confluence with Fulfer Creek (Approximately 90 feet upstream of N 300th Street) | Regression Equations | HEC-RAS 3.1.1 and up | 4/29/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Fulfer Creek Tributary A1 | Confluence with Fulfer Creek Tributary A | Approximately 2,619 feet upstream of confluence with Fulfer Creek Tributary A (Approximately 100 feet upstream of E 500th Avenue) | Regression Equations | HEC-RAS 3.1.1 and up | 4/29/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |

Table 12: 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 | | | | | |
| Green Creek | Confluence with Little Wabash River | Approximately 35,422 feet upstream of confluence with Little Wabash River (At Effingham County and Shelby County Boundary / Just downstream of E 2100th Avenue) | Regression Equations | HEC-RAS 3.1.1 and up | 5/14/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Henry Creek | Confluence with Green Creek | Approximately 8,819 feet upstream of confluence with Green Creek (At Effingham County and Shelby County Boundary / Just downstream of E 2100th Avenue) | Regression Equations | HEC-RAS 3.1.1 and up | 5/14/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Lily Creek | Confluence with Little Wabash River | Approximately 35,602 feet upstream of confluence with Little Wabash River (Approximately 3,125 feet upstream of E 1350th Avenue) | Regression Equations | HEC-RAS 3.1.1 and up | 4/29/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |

Table 12: 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 | | | | | |
| Limestone Creek | Confluence with Fulfer Creek | Approximately 23,141 feet upstream of confluence with Fulfer Creek (Approximately 3,220 feet upstream of E 250th Avenue) | Regression Equations | HEC-RAS 3.1.1 and up | 4/29/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Little Bishop Creek | Confluence with Bishop Creek | Approximately 17,640 feet upstream of confluence with Bishop Creek (Approximately 7,000 feet upstream of N 1700th Street) | Regression Equations | HEC-RAS 3.1.1 and up | 11/12/2018 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Little Salt Creek | Confluence with Salt Creek | Approximately 56,499 feet upstream of confluence with Salt Creek (Approximately 600 feet downstream of E 1300th Avenue) | Regression Equations | HEC-RAS 3.1.1 and up | 5/19/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |

Table 12: 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 | | | | | |
| Little Wabash River | Approximately 918,071 feet upstream of confluence with Wabash River (Approximately 920 feet downstream of Effingham County and Clay County Boundary / E 1st Avenue extended) | Approximately 1,111,532 feet upstream of confluence with Wabash River (At Effingham County and Shelby County Boundary / E 2100th Avenue extended) | PEAKFQ 2.4 (April 1998) and up | HEC-RAS 3.1.1 and up | 6/28/2019 | A | HEC-RAS v. 4.1, 1D Steady Flow; PEAKFQ v. 7.1, USGS StreamStats 2004, Rural |
| Little Wabash River Tributary M | Confluence with Little Wabash River | Approximately 6,750 feet upstream of confluence with Little Wabash River | Regression Equations | HEC-RAS 3.1.1 and up | 4/29/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Little Wabash River Tributary N | Approximately 2,869 feet upstream of confluence with Little Wabash River (Approximately 2,135 feet downstream of North Outer Belt West) | Approximately 9,850 feet upstream of confluence with Little Wabash River (Approximately 2,550 feet upstream of Interstate 70 / Interstate 57) | HEC-HMS 3.0 and up (Dec 2005) | HEC-RAS 3.1.1 and up | 5/17/2021 | AE w/ Floodway | HEC-RAS v. 5.0.7, 1D Steady Flow; HEC-HMS v. 3.5, ISWS Bulletin 70, NRCS Curve Number; Hydraulic model does not extend to upstream floodplain mapping limits; 1% and 0.2% annual chance floodplain mapping for upstream 125 feet of this stream is based on elevation from last modeled cross section. |

Table 12: 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 | | | | | |
| Little Wabash River Tributary N1 | Confluence with Little Wabash River Tributary N | Approximately 6,852 feet upstream of confluence with Little Wabash River Tributary N (Approximately 580 feet upstream of North Maple Street) | HEC-HMS 3.0 and up (Dec 2005) | HEC-RAS 3.1.1 and up | 5/17/2021 | AE w/ Floodway | HEC-RAS v. 5.0.7, 1D Steady Flow; HEC-HMS v. 3.5, ISWS Bulletin 70, NRCS Curve Number; Hydraulic model does not extend to upstream floodplain mapping limits; 1% and 0.2% annual chance floodplain mapping for upstream 215 feet of this stream is based on elevation from last modeled cross section |
| Little Wabash River Tributary N1a | Confluence with Little Wabash River Tributary N1 | Approximately 1,943 feet upstream of confluence with Little Wabash River Tributary N1 (Just downstream of Hampton Drive) | HEC-HMS 3.0 and up (Dec 2005) | HEC-RAS 3.1.1 and up | 5/17/2021 | AE w/ Floodway | HEC-RAS v. 5.0.7, 1D Steady Flow; HEC-HMS v. 3.5, ISWS Bulletin 70, NRCS Curve Number |
| Little Wabash River Tributary O | Approximately 1,616 feet upstream of confluence with Little Wabash River | Approximately 1,917 feet upstream of confluence with Little Wabash River (Just downstream of Lake Pauline) | HEC-HMS 3.0 and up (Dec 2005) | HEC-RAS 3.1.1 and up | 5/17/2021 | AE w/ Floodway | HEC-RAS v. 5.0.7, 1D Steady Flow; HEC-HMS v. 3.5, ISWS Bulletin 70, NRCS Curve Number |

Table 12: 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 | | | | | |
| Moccasin Creek | At Effingham County and Fayette County Boundary / Illinois Route 128 / N 1st Street | Approximately 33,463 feet upstream of Effingham County and Fayette County Boundary / Illinois Route 128 / N 1st Street (Approximately 500 feet downstream of N 500th Street) | Regression Equations | HEC-RAS 3.1.1 and up | 1/6/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Morris Creek | Confluence with Wolf Creek | Approximately 7,151 feet upstream of confluence with Wolf Creek (Approximately 5,775 feet upstream E 2000th Avenue) | Regression Equations | HEC-RAS 3.1.1 and up | 1/6/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| North Fork Shoal Creek | Confluence with Shoal Creek | Approximately 12,139 feet upstream of confluence with Shoal Creek (Approximately 5,175 feet upstream of E 2000th Avenue) | Regression Equations | HEC-RAS 3.1.1 and up | 5/14/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |

Table 12: 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 | | | | | |
| Ramsey Creek | Confluence with Little Wabash River | Approximately 34,018 feet upstream of confluence with Little Wabash River (Approximately 2,400 feet upstream of N 1800th Street) | Regression Equations | HEC-RAS 3.1.1 and up | 11/12/2018 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Salt Creek | Approximately 57,480 feet upstream of confluence with Little Wabash (Approximately 385 feet upstream of East 1050th Road) | Approximately 109,429 feet upstream of confluence with Little Wabash (Approximately 1,760 feet upstream of North 1800th Street) | HEC-HMS 3.0 and up (Dec 2005) | HEC-RAS 3.1.1 and up | 5/17/2021 | AE w/ Floodway | HEC-RAS v. 5.0.7, 1D Steady Flow; HEC-HMS v. 3.5, ISWS Bulletin 70, NRCS Curve Number |
| Salt Creek | Confluence with Little Wabash River | Approximately 57,480 feet upstream of confluence with Little Wabash River (Approximately 390 feet upstream of E 1050th Road) | Regression Equations | HEC-RAS 3.1.1 and up | 5/19/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |

Table 12: 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 | | | | | |
| Salt Creek Tributary A | Approximately 3,148 feet upstream of confluence with Salt Creek (Approximately 90 feet downstream of U.S. Route 45) | Approximately 33,374 feet upstream of confluence with Salt Creek (Approximately 700 feet upstream of Railroad) | HEC-HMS 3.0 and up (Dec 2005) | HEC-RAS 3.1.1 and up | 5/17/2021 | AE w/ Floodway | HEC-RAS v. 5.0.7, 1D Steady Flow; HEC-HMS v. 3.5, ISWS Bulletin 70, NRCS Curve Number |
| Salt Creek Tributary A1 | Confluence with Salt Creek Tributary A | Approximately 2,830 feet upstream of confluence with Salt Creek Tributary A (Approximately 1,600 feet upstream of Access Road) | HEC-HMS 3.0 and up (Dec 2005) | HEC-RAS 3.1.1 and up | 5/17/2021 | AE w/ Floodway | HEC-RAS v. 5.0.7, 1D Steady Flow; HEC-HMS v. 3.5, ISWS Bulletin 70, NRCS Curve Number |
| Salt Creek Tributary A2 | Confluence with Salt Creek Tributary A | Approximately 8,822 feet upstream of confluence with Salt Creek Tributary A (Approximately 170 feet upstream of North 1200th Street) | HEC-HMS 3.0 and up (Dec 2005) | HEC-RAS 3.1.1 and up | 5/17/2021 | AE w/ Floodway | HEC-RAS v. 5.0.7, 1D Steady Flow; HEC-HMS v. 3.5, ISWS Bulletin 70, NRCS Curve Number |

Table 12: 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 | | | | | |
| Salt Creek Tributary B | Confluence with Salt Creek | Approximately 9,483 feet upstream of confluence with Salt Creek (Approximately 1,770 feet upstream of E Dutch Lane) | Regression Equations | HEC-RAS 3.1.1 and up | 5/19/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Salt Creek Tributary C | Confluence with Salt Creek | Approximately 7,977 feet upstream of confluence with Salt Creek (Approximately 1,400 feet upstream of U.S. Route 45 / South Banker Street) | HEC-HMS 3.0 and up (Dec 2005) | HEC-RAS 3.1.1 and up | 5/17/2021 | AE w/ Floodway | HEC-RAS v. 5.0.7, 1D Steady Flow; HEC-HMS v. 3.5, ISWS Bulletin 70, NRCS Curve Number |
| Salt Creek Tributary D | Confluence with Salt Creek | Approximately 4,663 feet upstream of confluence with Salt Creek (Approximately 785 feet upstream of East Wabash Avenue) | HEC-HMS 3.0 and up (Dec 2005) | HEC-RAS 3.1.1 and up | 5/17/2021 | AE w/ Floodway | HEC-RAS v. 5.0.7, 1D Steady Flow; HEC-HMS v. 3.5, ISWS Bulletin 70, NRCS Curve Number |

Table 12: 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 | | | | | |
| Salt Creek Tributary E | Confluence with Salt Creek | Approximately 20,236 feet upstream of confluence with Salt Creek (Approximately 230 feet upstream of South Oak Street) | HEC-HMS 3.0 and up (Dec 2005) | HEC-RAS 3.1.1 and up | 5/17/2021 | AE w/ Floodway | HEC-RAS v. 5.0.7, 1D Steady Flow; HEC-HMS v. 3.5, ISWS Bulletin 70, NRCS Curve Number |
| Salt Creek Tributary F | Confluence with Salt Creek | Approximately 2,840 feet upstream of confluence with Salt Creek (Approximately 1,500 feet upstream of Access Road) | HEC-HMS 3.0 and up (Dec 2005) | HEC-RAS 3.1.1 and up | 5/17/2021 | AE w/ Floodway | HEC-RAS v. 5.0.7, 1D Steady Flow; HEC-HMS v. 3.5, ISWS Bulletin 70, NRCS Curve Number |
| Salt Creek Tributary G | Confluence with Salt Creek | Approximately 8,052 feet upstream of confluence with Salt Creek (Just downstream of Technology Drive) | HEC-HMS 3.0 and up (Dec 2005) | HEC-RAS 3.1.1 and up | 5/17/2021 | AE w/ Floodway | HEC-RAS v. 5.0.7, 1D Steady Flow; HEC-HMS v. 3.5, ISWS Bulletin 70, NRCS Curve Number |

Table 12: 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 | | | | | |
| Salt Creek Tributary G1 | Confluence with Salt Creek Tributary G | Approximately 5,849 feet upstream of confluence with Salt Creek (Approximately 980 feet upstream of West Evergreen Avenue) | HEC-HMS 3.0 and up (Dec 2005) | HEC-RAS 3.1.1 and up | 5/17/2021 | AE w/ Floodway | HEC-RAS v. 5.0.7, 1D Steady Flow; HEC-HMS v. 3.5, ISWS Bulletin 70, NRCS Curve Number; Hydraulic model does not extend to upstream floodplain mapping limits; 1% and 0.2% annual chance floodplain mapping for upstream 260 feet of this stream is based on elevation from last modeled cross section |
| Second Creek | Confluence with Little Wabash River | Approximately 52,291 feet upstream of confluence with Little Wabash River (Approximately 615 feet upstream of N 450th Street) | Regression Equations | HEC-RAS 3.1.1 and up | 4/29/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Second Creek Tributary A | Confluence with Second Creek | Approximately 5,292 feet upstream of confluence with Second Creek (Approximately 4,700 feet upstream of E 925th Avenue) | Regression Equations | HEC-RAS 3.1.1 and up | 4/29/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |

Table 12: 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 | | | | | |
| Second Creek Tributary B | Confluence with Second Creek | Approximately 10,789 feet upstream of confluence with Second Creek (Approximately 900 feet upstream of Interstate70) | Regression Equations | HEC-RAS 3.1.1 and up | 4/29/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Second Salt Creek | Confluence with Salt Creek | Approximately 18,029 feet upstream of confluence with Salt Creek (Just downstream of E 1800th Avenue (extended) / Effingham County and Cumberland County Boundary) | Regression Equations | HEC-RAS 3.1.1 and up | 5/19/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Shoal Creek | Confluence with Little Wabash River | Approximately 17,557 feet upstream of confluence with Little Wabash River (Approximately 3,925 feet upstream of Illinois Route 32) | Regression Equations | HEC-RAS 3.1.1 and up | 5/14/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |

Table 12: 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 Fork | Confluence with Green Creek | Approximately 10,827 feet upstream of confluence with Green Creek (Just downstream of N 1500th Street) | Regression Equations | HEC-RAS 3.1.1 and up | 5/14/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Wolf Creek | At Effingham County and Fayette County Boundary / Illinois Route 128 / N 1st Street | Approximately 53,324 feet upstream of Effingham County and Fayette County Boundary / Illinois Route 128 / N 1st Street (At Effingham County and Shelby County Boundary / E 2100th Avenue) | Regression Equations | HEC-RAS 3.1.1 and up | 1/6/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |
| Wolf Creek Tributary A | Confluence with Wolf Creek | Approximately 14,513 feet upstream of confluence with Wolf Creek (Approximately 7,880 feet upstream of E 1800th Street) | Regression Equations | HEC-RAS 3.1.1 and up | 1/6/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |

Table 12: 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 | | | | | |
| Wolf Creek Tributary B | Confluence with Wolf Creek | Approximately 5,163 feet upstream of confluence with Wolf Creek (At Effingham County and Shelby County Boundary / E 2100th Avenue) | Regression Equations | HEC-RAS 3.1.1 and up | 1/6/2020 | A | HEC-RAS v. 4.1, 1D Steady Flow; USGS StreamStats 2004, Rural |

Table 13: Roughness Coefficients

| Flooding Source | Channel “n” | Overbank “n” |
|-----------------------------------|-------------|--------------|
| Beech Creek | 0.035-0.075 | 0.035-0.075 |
| Big Creek | 0.035-0.075 | 0.035-0.075 |
| Big Creek Tributary A | 0.038-0.040 | 0.040-0.100 |
| Bishop Creek | 0.035-0.075 | 0.035-0.075 |
| Blue Point Creek | 0.035-0.075 | 0.035-0.075 |
| Brockett Creek | 0.035-0.075 | 0.035-0.075 |
| Brush Creek | 0.035-0.075 | 0.035-0.075 |
| Cedar Creek | 0.035-0.075 | 0.035-0.075 |
| Coon Creek | 0.035-0.075 | 0.035-0.075 |
| Corwin Branch | 0.035-0.075 | 0.035-0.075 |
| Dieterich Creek | 0.035-0.075 | 0.035-0.075 |
| Dieterich Creek | 0.040 | 0.045-0.050 |
| East Branch Green Creek | 0.035-0.075 | 0.035-0.075 |
| Fulfer Creek | 0.035-0.075 | 0.035-0.075 |
| Fulfer Creek Tributary A | 0.035-0.075 | 0.035-0.075 |
| Fulfer Creek Tributary A1 | 0.035-0.075 | 0.035-0.075 |
| Green Creek | 0.035-0.075 | 0.035-0.075 |
| Henry Creek | 0.035-0.075 | 0.035-0.075 |
| Lily Creek | 0.035-0.075 | 0.035-0.075 |
| Limestone Creek | 0.035-0.075 | 0.035-0.075 |
| Little Bishop Creek | 0.035-0.075 | 0.035-0.075 |
| Little Salt Creek | 0.035-0.075 | 0.035-0.075 |
| Little Wabash River | 0.035-0.046 | 0.032-0.098 |
| Little Wabash River | 0.040-0.046 | 0.046-0.098 |
| Little Wabash River | 0.040-0.120 | 0.040-0.120 |
| Little Wabash River Tributary M | 0.035-0.075 | 0.035-0.075 |
| Little Wabash River Tributary N | 0.038 | 0.040-0.100 |
| Little Wabash River Tributary N1 | 0.038 | 0.038-0.100 |
| Little Wabash River Tributary N1a | 0.038 | 0.080-0.100 |
| Little Wabash River Tributary O | 0.038-0.040 | 0.050-0.100 |

Table 13: Roughness Coefficients (continued)

| Flooding Source | Channel “n” | Overbank “n” |
|--------------------------|-------------|--------------|
| Moccasin Creek | 0.035-0.075 | 0.035-0.075 |
| Morris Creek | 0.035-0.075 | 0.035-0.075 |
| North Fork Shoal Creek | 0.035-0.075 | 0.035-0.075 |
| Ramsey Creek | 0.035-0.075 | 0.035-0.075 |
| Salt Creek | 0.035-0.040 | 0.040-0.100 |
| Salt Creek | 0.035-0.075 | 0.035-0.075 |
| Salt Creek Tributary A | 0.035-0.038 | 0.038-0.100 |
| Salt Creek Tributary A1 | 0.038 | 0.040-0.100 |
| Salt Creek Tributary A2 | 0.038 | 0.038-0.100 |
| Salt Creek Tributary B | 0.035-0.075 | 0.035-0.075 |
| Salt Creek Tributary C | 0.038-0.040 | 0.040-0.100 |
| Salt Creek Tributary D | 0.038 | 0.040-0.100 |
| Salt Creek Tributary E | 0.032-0.040 | 0.040-0.100 |
| Salt Creek Tributary F | 0.030-0.038 | 0.040-0.100 |
| Salt Creek Tributary G | 0.038 | 0.040-0.100 |
| Salt Creek Tributary G1 | 0.038 | 0.040-0.100 |
| Second Creek | 0.035-0.075 | 0.035-0.075 |
| Second Creek Tributary A | 0.035-0.075 | 0.035-0.075 |
| Second Creek Tributary B | 0.035-0.075 | 0.035-0.075 |
| Second Salt Creek | 0.035-0.075 | 0.035-0.075 |
| Shoal Creek | 0.035-0.075 | 0.035-0.075 |
| Sugar Fork | 0.035-0.075 | 0.035-0.075 |
| Wolf Creek | 0.035-0.075 | 0.035-0.075 |
| Wolf Creek Tributary A | 0.035-0.075 | 0.035-0.075 |
| Wolf Creek Tributary B | 0.035-0.075 | 0.035-0.075 |

5.3 Coastal Analyses

This section is not applicable to this Flood Risk Project.

Table 14: Summary of Coastal Analyses

[Not applicable to this Flood Risk Project]

5.3.1 Total Stillwater Elevations

This section is not applicable to this Flood Risk Project.

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

[Not applicable to this Flood Risk Project]

Table 15: Tide Gage Analysis Specifics

[Not applicable to this Flood Risk Project]

5.3.2 Waves

This section is not applicable to this Flood Risk Project.

5.3.3 Coastal Erosion

This section is not applicable to this Flood Risk Project.

5.3.4 Wave Hazard Analyses

This section is not applicable to this Flood Risk Project.

Table 16: Coastal Transect Parameters

[Not applicable to this Flood Risk Project]

Figure 9: Transect Location Map

[Not applicable to this Flood Risk Project]

5.4 Alluvial Fan Analyses

This section is not applicable to this Flood Risk Project.

Table 17: Summary of Alluvial Fan Analyses

[Not applicable to this Flood Risk Project]

Table 18: Results of Alluvial Fan Analyses

[Not applicable to this Flood Risk Project]

SECTION 6.0 – MAPPING METHODS

6.1 Vertical and Horizontal Control

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

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

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

To obtain current elevation, description, and/or location information for benchmarks in the area, please visit the NGS website at www.ngs.noaa.gov.

The datum conversion locations and values that were calculated for Effingham County are provided in Table 19.

Table 19: Countywide Vertical Datum Conversion

[Not applicable to this Flood Risk Project]

Table 20: Stream-Based Vertical Datum Conversion

[Not applicable to this Flood Risk 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 Flood Risk Analysis and Mapping*, www.fema.gov/flood-maps/guidance-partners/guidelines-standards.

Base map information shown on the FIRM was derived from the sources described in Table 21.

Table 21: Base Map Sources

| Data Type | Data Provider | Data Date | Data Scale | Data Description |
|--|----------------------------------|---------------|------------|---|
| Effingham County Municipal Boundaries | Effingham County, Illinois | July 7, 2021 | | Spatial feature and attribute information for political boundaries |
| Effingham County Roads | Effingham County, Illinois | July 7, 2021 | | Spatial feature and attribute information for transportation features |
| Illinois Public Land Survey System | Illinois State Geological Survey | April 2003 | 1:62,500 | Spatial feature and attribute information for Public Land Survey System sections; features were refined using the USGS 7.5-Minute Series Topographic Maps |
| National Hydrography Dataset | U.S. Geological Survey | June 22, 2019 | 1:24,000 | Spatial feature and attribute information for lakes and HUC-8 watershed boundaries |
| Runways | Federal Aviation Administration | June 17, 2021 | | Spatial feature and attribute information for airports |
| TIGER/Line Shapefile, 2020, state, Illinois, Current Place State-based | U.S. Census Bureau | February 2021 | | Spatial feature and attribute information for railroads |
| USGS 7.5-Minute Series Topographic Maps | U.S. Geological Survey | 1989 | 1:24,000 | FIRM paneling scheme |
| USGS National Map: Orthoimagery | U.S. Geological Survey | October 2020 | | Orthoimagery for FIRM panels effective 1/17/2025 |

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 22.

In cases where the 1-percent and 0.2-percent-annual-chance floodplain boundaries are close together, only the 1-percent-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 23, "Floodway Data."

Table 22: Summary of Topographic Elevation Data used in Mapping

| Community | Flooding Source | Source for Topographic Elevation Data | | | |
|------------------|--|---------------------------------------|---|--|-----------|
| | | Description | Vertical Accuracy | Horizontal Accuracy | Citation |
| Effingham County | Beech Creek, Big Creek, Big Creek Tributary A, Bishop Creek, Blue Point Creek, Brockett Creek, Brush Creek, Cedar Creek, Coon Creek, Corwin Branch, Dieterich Creek, East Branch Green Creek, Fulfer Creek, Fulfer Creek Tributary A, Fulfer Creek Tributary A1, Green Creek, Henry Creek, Lily Creek, Limestone Creek, Little Bishop Creek, Little Salt Creek, Little Wabash River, Little Wabash River Tributary M, Little Wabash River Tributary N, Little Wabash River Tributary N1, Little Wabash River Tributary N1a, Little Wabash River Tributary O, Moccasin Creek, Morris Creek, North Fork Shoal Creek, | 2011 Digital Terrain Model | CVA 0.541 ft. at the 95% Confidence level | 0.30 meters (per manufacturer's system specifications) | ISGS 2012 |

Table 22: Summary of Topographic Elevation Data used in Mapping (continued)

| Community | Flooding Source | Source for Topographic Elevation Data | | | |
|------------------|---|---------------------------------------|---|--|-----------|
| | | Description | Vertical Accuracy | Horizontal Accuracy | Citation |
| Effingham County | Ramsey Creek, Salt Creek, Salt Creek Tributary A, Salt Creek Tributary A1, Salt Creek Tributary A2, Salt Creek Tributary B, Salt Creek Tributary C, Salt Creek Tributary D, Salt Creek Tributary E, Salt Creek Tributary F, Salt Creek Tributary G, Salt Creek Tributary G1, Second Creek, Second Creek Tributary A, Second Creek Tributary B, Second Salt Creek, Shoal Creek, Sugar Fork, Wolf Creek, Wolf Creek Tributary A, Wolf Creek Tributary B | 2011 Digital Terrain Model | CVA 0.541 ft. at the 95% Confidence level | 0.30 meters (per manufacturer's system specifications) | ISGS 2012 |

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

Table 23: Floodway Data

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 1,354 | 252 | 715 | 2.6 | 574.1 | 574.1 | 574.2 | 0.1 |
| B | 2,342 | 232 | 637 | 2.9 | 577.3 | 577.3 | 577.3 | 0.0 |
| C | 3,249 | 239 | 704 | 2.7 | 579.7 | 579.7 | 579.7 | 0.0 |
| D | 4,473 | 157 | 569 | 3.3 | 583.0 | 583.0 | 583.0 | 0.0 |
| E | 5,224 | 107 | 469 | 5.3 | 584.2 | 584.2 | 584.2 | 0.0 |
| F | 6,437 | 59 | 313 | 5.0 | 589.0 | 589.0 | 589.1 | 0.1 |
| G | 7,334 | 39 | 214 | 6.0 | 592.1 | 592.1 | 592.2 | 0.1 |
| H | 8,628 | 80 | 398 | 2.4 | 599.2 | 599.2 | 599.2 | 0.0 |

¹ Feet above confluence with Big Creek

| | | |
|----------|--|---|
| TABLE 23 | FEDERAL EMERGENCY MANAGEMENT AGENCY EFFINGHAM COUNTY, ILLINOIS AND INCORPORATED AREAS | FLOODWAY DATA |
| | | FLOODING SOURCE: BIG CREEK TRIBUTARY A |

Table 23: Floodway Data (continued)

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 4,370 | 276 | 441 | 4.6 | 531.1 | 531.1 | 531.1 | 0.0 |
| B | 5,324 | 255 | 512 | 3.6 | 535.0 | 535.0 | 535.0 | 0.0 |
| C | 5,646 | 164 | 321 | 5.8 | 535.9 | 535.9 | 535.9 | 0.0 |
| D | 6,189 | 174 | 332 | 5.6 | 538.0 | 538.0 | 538.0 | 0.0 |
| E | 6,948 | 67 | 296 | 6.2 | 540.8 | 540.8 | 540.8 | 0.0 |
| F | 7,869 | 132 | 521 | 1.1 | 552.5 | 552.5 | 552.5 | 0.0 |
| G | 8,760 | 64 | 161 | 3.5 | 554.2 | 554.2 | 554.2 | 0.0 |
| H | 9,584 | 58 | 105 | 5.4 | 559.8 | 559.8 | 559.8 | 0.0 |

¹ Feet above confluence with Little Wabash River

| | | |
|----------|--|---|
| TABLE 23 | FEDERAL EMERGENCY MANAGEMENT AGENCY EFFINGHAM COUNTY, ILLINOIS AND INCORPORATED AREAS | FLOODWAY DATA |
| | | FLOODING SOURCE: LITTLE WABASH RIVER TRIBUTARY N |

Table 23: Floodway Data (continued)

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 277 | 36 | 120 | 10.6 | 542.8 | 542.8 | 542.8 | 0.0 |
| B | 1,287 | 346 | 2,696 | 0.5 | 557.5 | 557.5 | 557.5 | 0.0 |
| C | 2,094 | 197 | 827 | 1.1 | 557.5 | 557.5 | 557.5 | 0.0 |
| D | 2,751 | 22 | 100 | 8.9 | 558.6 | 558.6 | 558.6 | 0.0 |
| E | 3,647 | 87 | 437 | 2.0 | 571.1 | 571.1 | 571.1 | 0.0 |
| F | 4,091 | 104 | 306 | 2.9 | 571.8 | 571.8 | 571.8 | 0.0 |
| G | 4,871 | 60 | 123 | 5.0 | 574.8 | 574.8 | 574.8 | 0.0 |
| H | 5,869 | 135 | 428 | 0.8 | 583.2 | 583.2 | 583.2 | 0.0 |

¹ Feet above confluence with Little Wabash River Tributary N

TABLE 23

**FEDERAL EMERGENCY MANAGEMENT AGENCY
EFFINGHAM COUNTY, ILLINOIS
AND INCORPORATED AREAS**

FLOODWAY DATA

FLOODING SOURCE: LITTLE WABASH RIVER TRIBUTARY N1

Table 23: Floodway Data (continued)

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 582 | 67 | 111 | 3.8 | 557.5 | 557.4 | 557.4 | 0.0 |
| B | 1,064 | 69 | 90 | 4.7 | 563.3 | 563.3 | 563.3 | 0.0 |
| C | 1,556 | 110 | 149 | 2.8 | 569.7 | 569.7 | 569.7 | 0.0 |
| D | 1,943 | 69 | 93 | 4.5 | 580.2 | 580.2 | 580.2 | 0.0 |

¹ Feet above confluence with Little Wabash River Tributary N1

TABLE 23

**FEDERAL EMERGENCY MANAGEMENT AGENCY
EFFINGHAM COUNTY, ILLINOIS
AND INCORPORATED AREAS**

FLOODWAY DATA

FLOODING SOURCE: LITTLE WABASH RIVER TRIBUTARY N1A

Table 23: Floodway Data (continued)

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 1,616 | 16 | 25 | 7.1 | 537.5 | 531.9 ² | 531.9 | 0.0 |
| B | 1,752 | 10 | 21 | 8.3 | 557.0 | 557.0 | 557.0 | 0.0 |

¹ Feet above confluence with Little Wabash River

² Elevation computed without consideration of backwater effects

| | | |
|----------|--|---|
| TABLE 23 | FEDERAL EMERGENCY MANAGEMENT AGENCY EFFINGHAM COUNTY, ILLINOIS AND INCORPORATED AREAS | FLOODWAY DATA |
| | | FLOODING SOURCE: LITTLE WABASH RIVER TRIBUTARY O |

Table 23: Floodway Data (continued)

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 58,592 | 1,225 | 5,167 | 2.1 | 515.8 | 515.8 | 515.9 | 0.1 |
| B | 60,674 | 713 | 3,643 | 2.9 | 518.6 | 518.6 | 518.7 | 0.1 |
| C | 63,101 | 1,856 | 9,015 | 1.2 | 521.2 | 521.2 | 521.3 | 0.1 |
| D | 65,422 | 1,032 | 4,022 | 2.7 | 522.5 | 522.5 | 522.6 | 0.1 |
| E | 68,514 | 887 | 3,672 | 3.1 | 526.0 | 526.0 | 526.0 | 0.0 |
| F | 70,906 | 800 | 3,739 | 2.8 | 528.5 | 528.5 | 528.5 | 0.0 |
| G | 73,493 | 423 | 2,139 | 4.9 | 531.0 | 531.0 | 531.0 | 0.0 |
| H | 75,310 | 248 | 2,113 | 4.8 | 535.5 | 535.5 | 535.6 | 0.1 |
| I | 77,018 | 428 | 4,128 | 2.5 | 541.8 | 541.8 | 541.8 | 0.0 |
| J | 80,311 | 686 | 6,213 | 1.7 | 543.0 | 543.0 | 543.1 | 0.1 |
| K | 82,987 | 704 | 5,699 | 1.8 | 543.5 | 543.5 | 543.5 | 0.0 |
| L | 86,703 | 589 | 4,750 | 2.0 | 547.4 | 547.3 | 547.4 | 0.1 |
| M | 91,030 | 645 | 3,605 | 2.4 | 548.3 | 548.2 | 548.3 | 0.1 |
| N | 95,780 | 704 | 3,830 | 1.9 | 552.9 | 552.9 | 552.9 | 0.0 |
| O | 99,670 | 453 | 2,228 | 3.3 | 556.8 | 556.8 | 556.8 | 0.0 |
| P | 105,077 | 182 | 865 | 4.6 | 562.6 | 562.6 | 562.7 | 0.1 |
| Q | 108,786 | 436 | 2,232 | 1.8 | 569.1 | 569.1 | 569.1 | 0.0 |

¹ Feet above confluence with Little Wabash River

TABLE 23

**FEDERAL EMERGENCY MANAGEMENT AGENCY
EFFINGHAM COUNTY, ILLINOIS
AND INCORPORATED AREAS**

FLOODWAY DATA

FLOODING SOURCE: SALT CREEK

Table 23: Floodway Data (continued)

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 3,720 | 917 | 3,092 | 1.3 | 487.3 | 486.9 ² | 486.9 | 0.0 |
| B | 4,715 | 846 | 1,960 | 2.0 | 487.9 | 487.9 | 487.9 | 0.0 |
| C | 6,576 | 589 | 1,616 | 2.4 | 491.0 | 491.0 | 491.1 | 0.1 |
| D | 9,019 | 473 | 1,165 | 2.8 | 495.7 | 495.7 | 495.8 | 0.1 |
| E | 11,022 | 499 | 1,356 | 2.4 | 498.9 | 498.9 | 499.0 | 0.1 |
| F | 13,237 | 437 | 871 | 3.5 | 501.7 | 501.7 | 501.8 | 0.1 |
| G | 15,115 | 297 | 779 | 3.5 | 506.1 | 506.1 | 506.1 | 0.0 |
| H | 17,296 | 399 | 903 | 3.0 | 510.5 | 510.5 | 510.5 | 0.0 |
| I | 19,511 | 361 | 1,101 | 2.4 | 514.4 | 514.4 | 514.4 | 0.0 |
| J | 22,214 | 216 | 606 | 2.7 | 519.3 | 519.3 | 519.3 | 0.0 |
| K | 23,996 | 52 | 235 | 6.9 | 523.0 | 523.0 | 523.0 | 0.0 |
| L | 25,451 | 66 | 356 | 4.6 | 527.2 | 527.2 | 527.2 | 0.0 |
| M | 27,619 | 139 | 240 | 4.7 | 531.9 | 531.9 | 531.9 | 0.0 |
| N | 30,203 | 119 | 292 | 3.9 | 539.8 | 539.8 | 539.8 | 0.0 |
| O | 32,316 | 235 | 424 | 2.1 | 546.3 | 546.3 | 546.3 | 0.0 |

¹ Feet above confluence with Salt Creek

² Elevation computed without consideration of backwater effects

TABLE 23

**FEDERAL EMERGENCY MANAGEMENT AGENCY
EFFINGHAM COUNTY, ILLINOIS
AND INCORPORATED AREAS**

FLOODWAY DATA

FLOODING SOURCE: SALT CREEK TRIBUTARY A

Table 23: Floodway Data (continued)

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 406 | 210 | 283 | 1.7 | 504.5 | 504.5 | 504.6 | 0.1 |
| B | 1,267 | 266 | 968 | 0.5 | 512.9 | 512.9 | 512.9 | 0.0 |
| C | 1,925 | 28 | 58 | 8.3 | 512.9 | 512.9 | 513.0 | 0.1 |

¹ Feet above confluence with Salt Creek Tributary A

| | | |
|----------|--|---|
| TABLE 23 | FEDERAL EMERGENCY MANAGEMENT AGENCY EFFINGHAM COUNTY, ILLINOIS AND INCORPORATED AREAS | FLOODWAY DATA |
| | | FLOODING SOURCE: SALT CREEK TRIBUTARY A1 |

Table 23: Floodway Data (continued)

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 1,376 | 69 | 179 | 4.7 | 516.2 | 516.1 | 516.2 | 0.1 |
| B | 2,404 | 43 | 170 | 5.0 | 518.6 | 518.6 | 518.6 | 0.0 |
| C | 3,686 | 35 | 147 | 5.8 | 522.2 | 522.2 | 522.2 | 0.0 |
| D | 4,936 | 35 | 132 | 6.4 | 526.5 | 526.5 | 526.6 | 0.1 |
| E | 6,558 | 52 | 142 | 4.2 | 532.9 | 532.9 | 532.9 | 0.0 |
| F | 8,005 | 36 | 121 | 4.9 | 537.3 | 537.3 | 537.4 | 0.1 |

¹ Feet above confluence with Salt Creek Tributary A

| | | |
|----------|--|---|
| TABLE 23 | FEDERAL EMERGENCY MANAGEMENT AGENCY EFFINGHAM COUNTY, ILLINOIS AND INCORPORATED AREAS | FLOODWAY DATA |
| | | FLOODING SOURCE: SALT CREEK TRIBUTARY A2 |

Table 23: Floodway Data (continued)

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 383 | 194 | 1,208 | 1.0 | 534.7 | 534.7 | 534.7 | 0.0 |
| B | 1,599 | 181 | 513 | 2.3 | 534.9 | 534.9 | 535.0 | 0.1 |
| C | 2,639 | 87 | 222 | 5.4 | 538.9 | 538.9 | 538.9 | 0.0 |
| D | 4,163 | 51 | 121 | 6.9 | 551.1 | 551.1 | 551.2 | 0.1 |
| E | 5,557 | 87 | 286 | 2.9 | 574.4 | 574.4 | 574.4 | 0.0 |
| F | 6,779 | 72 | 382 | 1.3 | 582.4 | 582.4 | 582.4 | 0.0 |
| G | 7,697 | 87 | 208 | 2.5 | 583.0 | 583.0 | 583.0 | 0.0 |

¹ Feet above confluence with Salt Creek

TABLE 23

**FEDERAL EMERGENCY MANAGEMENT AGENCY
EFFINGHAM COUNTY, ILLINOIS
AND INCORPORATED AREAS**

FLOODWAY DATA

FLOODING SOURCE: SALT CREEK TRIBUTARY C

Table 23: Floodway Data (continued)

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 1,000 | 162 | 1,124 | 0.7 | 541.8 | 541.8 | 541.8 | 0.0 |
| B | 1,701 | 133 | 978 | 1.1 | 541.8 | 541.8 | 541.8 | 0.0 |
| C | 2,959 | 26 | 100 | 6.0 | 543.5 | 543.5 | 543.5 | 0.0 |
| D | 4,248 | 154 | 819 | 0.7 | 559.6 | 559.6 | 559.6 | 0.0 |

¹ Feet above confluence with Salt Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
EFFINGHAM COUNTY, ILLINOIS
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SALT CREEK TRIBUTARY D

Table 23: Floodway Data (continued)

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 917 | 348 | 2,359 | 0.6 | 544.3 | 544.3 | 544.3 | 0.0 |
| B | 2,192 | 255 | 1,068 | 1.4 | 544.4 | 544.4 | 544.4 | 0.0 |
| C | 3,951 | 185 | 329 | 4.6 | 548.4 | 548.4 | 548.4 | 0.0 |
| D | 5,610 | 219 | 418 | 5.7 | 555.4 | 555.4 | 555.4 | 0.0 |
| E | 7,845 | 36 | 187 | 5.0 | 563.8 | 563.8 | 563.8 | 0.0 |
| F | 10,091 | 50 | 195 | 3.6 | 571.3 | 571.3 | 571.3 | 0.0 |
| G | 12,612 | 90 | 221 | 3.2 | 579.8 | 579.8 | 579.8 | 0.0 |
| H | 14,426 | 152 | 295 | 1.5 | 585.3 | 585.3 | 585.3 | 0.0 |
| I | 16,831 | 143 | 262 | 1.7 | 590.2 | 590.2 | 590.2 | 0.0 |
| J | 18,572 | 592 | 654 | 0.7 | 593.4 | 593.4 | 593.4 | 0.0 |
| K | 19,688 | 1,137 | 886 | 0.7 | 594.2 | 594.2 | 594.2 | 0.0 |

¹ Feet above confluence with Salt Creek

TABLE 23

**FEDERAL EMERGENCY MANAGEMENT AGENCY
EFFINGHAM COUNTY, ILLINOIS
AND INCORPORATED AREAS**

FLOODWAY DATA

FLOODING SOURCE: SALT CREEK TRIBUTARY E

Table 23: Floodway Data (continued)

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 873 | 330 | 1,431 | 0.2 | 547.4 | 547.4 | 547.4 | 0.0 |
| B | 1,494 | 106 | 260 | 1.1 | 551.1 | 551.1 | 551.1 | 0.0 |
| C | 2,314 | 25 | 57 | 5.2 | 557.3 | 557.3 | 557.3 | 0.0 |

¹ Feet above confluence with Salt Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
EFFINGHAM COUNTY, ILLINOIS
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SALT CREEK TRIBUTARY F

Table 23: Floodway Data (continued)

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 1,299 | 451 | 2,123 | 0.7 | 548.2 | 548.2 | 548.2 | 0.0 |
| B | 2,592 | 262 | 746 | 2.1 | 549.5 | 549.5 | 549.5 | 0.0 |
| C | 3,223 | 140 | 372 | 4.2 | 550.5 | 550.5 | 550.5 | 0.0 |
| D | 5,209 | 241 | 638 | 1.9 | 556.3 | 556.3 | 556.3 | 0.0 |
| E | 6,594 | 44 | 171 | 7.1 | 560.8 | 560.8 | 560.9 | 0.1 |
| F | 7,770 | 77 | 203 | 6.0 | 567.0 | 567.0 | 567.0 | 0.0 |

¹ Feet above confluence with Salt Creek

TABLE 23

**FEDERAL EMERGENCY MANAGEMENT AGENCY
EFFINGHAM COUNTY, ILLINOIS
AND INCORPORATED AREAS**

FLOODWAY DATA

FLOODING SOURCE: SALT CREEK TRIBUTARY G

Table 23: Floodway Data (continued)

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 279 | 234 | 457 | 1.1 | 556.6 | 556.6 | 556.6 | 0.0 |
| B | 1,212 | 77 | 131 | 3.7 | 560.0 | 560.0 | 560.0 | 0.0 |
| C | 2,414 | 29 | 80 | 6.2 | 566.6 | 566.6 | 566.7 | 0.1 |
| D | 4,143 | 108 | 252 | 1.8 | 580.1 | 580.1 | 580.1 | 0.0 |
| E | 5,849 | 40 | 97 | 3.2 | 585.7 | 585.7 | 585.7 | 0.0 |

¹ Feet above confluence with Salt Creek Tributary G

TABLE 23

**FEDERAL EMERGENCY MANAGEMENT AGENCY
EFFINGHAM COUNTY, ILLINOIS
AND INCORPORATED AREAS**

FLOODWAY DATA

FLOODING SOURCE: SALT CREEK TRIBUTARY G1

Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams

[Not applicable to this Flood Risk Project]

6.4 Coastal Flood Hazard Mapping

This section is not applicable to this Flood Risk Project.

Table 25: Summary of Coastal Transect Mapping Considerations

[Not applicable to this Flood Risk 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 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 30, “Map Repositories”).

6.5.1 Letters of Map Amendment

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

To obtain an application for a LOMA, visit www.fema.gov/flood-maps/change-your-flood-zone 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 www.fema.gov/flood-maps/tutorials.

For more information about how to apply for a LOMA, call the FEMA Mapping and Insurance 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 www.fema.gov/flood-maps/change-your-flood-zone 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 Mapping and Insurance 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 www.fema.gov/flood-maps/tutorials.

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 www.fema.gov/flood-maps/change-your-flood-zone 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 Mapping and Insurance 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 Effingham County FIRM are listed in Table 26.

Table 26: Incorporated Letters of Map Change

[Not applicable to this Flood Risk Project]

6.5.4 Physical Map Revisions

A Physical Map Revisions (PMR) is 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 www.fema.gov and visit the Floods & Maps “Change Your Flood Zone Designation” 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 Effingham County. Previously, separate FIRMs, Flood Hazard Boundary Maps (FHBM) and/or Flood Boundary and Floodway Maps (FBFMs) may have been prepared for the incorporated communities and the unincorporated areas in the county that had identified SFHAs. Current and historical data relating to the maps prepared for the project area are presented in Table 27, "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 27 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 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.
- *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 PMRs 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 Effingham County FIRMs in countywide format was 1/17/2025.

Table 27: Community Map History

| Community Name | Initial Identification Date | Initial FHBM Effective Date | FHBM Revision Date(s) | Initial FIRM Effective Date | FIRM Revision Date(s) |
|--|-----------------------------|-----------------------------|------------------------|-----------------------------|-----------------------|
| Altamont, City of | 3/22/1974 | 3/22/1974 | 6/22/1979 6/11/1976 | 9/4/1985 | 1/17/2025 |
| Beecher City, Village of ^{1, 2} | 1/17/2025 | N/A | N/A | 1/17/2025 | N/A |
| Dieterich, Village of ² | 1/17/2025 | N/A | N/A | 1/17/2025 | N/A |
| Edgewood, Village of ^{1, 2} | 1/17/2025 | N/A | N/A | 1/17/2025 | N/A |
| Effingham County Unincorporated Areas | 12/23/1977 | 12/23/1977 | N/A | 1/17/2025 | N/A |
| Effingham, City of | 3/22/1974 | 3/22/1974 | 4/23/1976 | 7/18/1985 | 1/17/2025 |
| Mason, Town of ^{1, 2} | 1/17/2025 | N/A | N/A | 1/17/2025 | N/A |
| Montrose, Village of ^{1, 3} | 2/4/2011 | N/A | N/A | 2/4/2011 | 1/17/2025 |
| Shumway, Village of ^{1, 2} | 1/17/2025 | N/A | N/A | 1/17/2025 | N/A |
| Teutopolis, Village of | 2/22/1974 | 2/22/1974 | 6/4/1976 | 8/19/1985 | 1/17/2025 |
| Watson, Village of | 2/2/1979 | 2/2/1979 | N/A | 1/17/2025 | N/A |

¹ No Special Flood Hazard Areas Identified

² This community did not have a FIRM prior to the first countywide FIRM for Effingham County

³ This community did not have a FIRM prior to the first countywide FIRM for Cumberland County

SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION

7.1 Contracted Studies

Table 28 provides a summary of the contracted studies, by flooding source, that are included in this FIS Report.

Table 28: Summary of Contracted Studies Included in this FIS Report

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|-----------------------|------------------|-----------------------------|-----------------------|---------------------|--|
| Beech Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | January 2020 | Effingham County Unincorporated Areas |
| Big Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | April 2020 | Effingham County Unincorporated Areas |
| Big Creek Tributary A | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2021 | Altamont, City of; Effingham County Unincorporated Areas |
| Bishop Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | November 2018 | Effingham County Unincorporated Areas |
| Blue Point Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2020 | Effingham County Unincorporated Areas |
| Brockett Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | April 2020 | Effingham County Unincorporated Areas |
| Brush Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2020 | Effingham County Unincorporated Areas |
| Cedar Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | January 2020 | Effingham County Unincorporated Areas |

Table 28: Summary of Contracted Studies Included in this FIS Report (continued)

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|---------------------------|------------------|-----------------------------|-----------------------|---------------------|--|
| Coon Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | April 2020 | Effingham County Unincorporated Areas |
| Corwin Branch | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | January 2020 | Effingham County Unincorporated Areas |
| Dieterich Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | November 2018 | Dieterich, Village of; Effingham County Unincorporated Areas |
| Dieterich Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | July 2021 | Effingham County Unincorporated Areas |
| East Branch Green Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2020 | Effingham County Unincorporated Areas |
| Fulfer Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | April 2020 | Effingham County Unincorporated Areas |
| Fulfer Creek Tributary A | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | April 2020 | Effingham County Unincorporated Areas |
| Fulfer Creek Tributary A1 | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | April 2020 | Effingham County Unincorporated Areas |
| Green Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2020 | Effingham County Unincorporated Areas |
| Henry Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2020 | Effingham County Unincorporated Areas |

Table 28: Summary of Contracted Studies Included in this FIS Report (continued)

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|-----------------------------------|------------------|-----------------------------|-----------------------|---------------------|---|
| Lily Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | April 2020 | Effingham County Unincorporated Areas |
| Limestone Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | April 2020 | Effingham County Unincorporated Areas |
| Little Bishop Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | November 2018 | Effingham County Unincorporated Areas |
| Little Salt Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2020 | Effingham County Unincorporated Areas |
| Little Wabash River | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | June 2019 | Effingham County Unincorporated Areas; Effingham, City of |
| Little Wabash River Tributary M | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | April 2020 | Effingham County Unincorporated Areas |
| Little Wabash River Tributary N | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2021 | Effingham County Unincorporated Areas; Effingham, City of |
| Little Wabash River Tributary N1 | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2021 | Effingham, City of |
| Little Wabash River Tributary N1a | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2021 | Effingham, City of |
| Little Wabash River Tributary O | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2021 | Effingham County Unincorporated Areas |

Table 28: Summary of Contracted Studies Included in this FIS Report (continued)

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|-------------------------|------------------|-----------------------------|-----------------------|---------------------|---|
| Moccasin Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | January 2020 | Effingham County Unincorporated Areas |
| Morris Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | January 2020 | Effingham County Unincorporated Areas |
| North Fork Shoal Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2020 | Effingham County Unincorporated Areas |
| Ramsey Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | November 2018 | Effingham County Unincorporated Areas |
| Salt Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2021 | Effingham County Unincorporated Areas |
| Salt Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2020 | Effingham County Unincorporated Areas; Effingham, City of; Teutopolis, Village of |
| Salt Creek Tributary A | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2021 | Effingham County Unincorporated Areas; Watson, Village of |
| Salt Creek Tributary A1 | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2021 | Effingham County Unincorporated Areas; Watson, Village of |
| Salt Creek Tributary A2 | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2021 | Effingham County Unincorporated Areas; Watson, Village of |

Table 28: Summary of Contracted Studies Included in this FIS Report (continued)

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|--------------------------|------------------|-----------------------------|-----------------------|---------------------|---|
| Salt Creek Tributary B | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2020 | Effingham County Unincorporated Areas |
| Salt Creek Tributary C | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2021 | Effingham County Unincorporated Areas; Effingham, City of |
| Salt Creek Tributary D | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2021 | Effingham, City of |
| Salt Creek Tributary E | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2021 | Effingham County Unincorporated Areas; Teutopolis, Village of |
| Salt Creek Tributary F | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2021 | Effingham County Unincorporated Areas; Effingham, City of |
| Salt Creek Tributary G | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2021 | Effingham County Unincorporated Areas; Effingham, City of |
| Salt Creek Tributary G1 | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2021 | Effingham County Unincorporated Areas; Effingham, City of |
| Second Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | April 2020 | Effingham County Unincorporated Areas |
| Second Creek Tributary A | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | April 2020 | Effingham County Unincorporated Areas |

Table 28: Summary of Contracted Studies Included in this FIS Report (continued)

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|--------------------------|------------------|-----------------------------|-----------------------|---------------------|---------------------------------------|
| Second Creek Tributary B | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | April 2020 | Effingham County Unincorporated Areas |
| Second Salt Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2020 | Effingham County Unincorporated Areas |
| Shoal Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2020 | Effingham County Unincorporated Areas |
| Sugar Fork | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | May 2020 | Effingham County Unincorporated Areas |
| Wolf Creek | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | January 2020 | Effingham County Unincorporated Areas |
| Wolf Creek Tributary A | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | January 2020 | Effingham County Unincorporated Areas |
| Wolf Creek Tributary B | 1/17/2025 | Illinois State Water Survey | EMC-2017-CA-00004-SO1 | January 2020 | Effingham County Unincorporated Areas |

7.2 Community Meetings

The dates of the community meetings held for this Flood Risk Project and previous Flood Risk Projects are shown in Table 29. 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 29: Community Meetings

| Community | FIS Report Dated | Date of Meeting | Meeting Type | Attended By |
|--------------------------|------------------|-----------------|-------------------|---|
| Altamont, City of | 1/17/2025 | 8/18/2016 | Project Discovery | FEMA, IDNR-OWR, IEMA, and ISWS |
| | | 2/18/2020 | Flood Risk Review | Effingham County EMA, ISWS, and the community |
| | | 12/15/2022 | Final CCO | Effingham County EMA, FEMA, IDNR-OWR, and ISWS |
| | | 3/9/2023 | Other | IDNR-OWR, and ISWS |
| Beecher City, Village of | 1/17/2025 | 8/18/2016 | Project Discovery | FEMA, IDNR-OWR, IEMA, and ISWS |
| | | 2/18/2020 | Flood Risk Review | Effingham County EMA, ISWS, and the community |
| | | 12/15/2022 | Final CCO | Effingham County EMA, FEMA, IDNR-OWR, and ISWS |
| | | 3/9/2023 | Other | IDNR-OWR, and ISWS |
| Dieterich, Village of | 1/17/2025 | 8/18/2016 | Project Discovery | FEMA, IDNR-OWR, IEMA, and ISWS |
| | | 2/18/2020 | Flood Risk Review | Effingham County EMA, ISWS, and the community |
| | | 12/15/2022 | Final CCO | Effingham County EMA, FEMA, IDNR-OWR, ISWS, and the community |
| | | 3/9/2023 | Other | IDNR-OWR, ISWS, and the community |
| Edgewood, Village of | 1/17/2025 | 8/18/2016 | Project Discovery | FEMA, IDNR-OWR, IEMA, and ISWS |
| | | 2/18/2020 | Flood Risk Review | Effingham County EMA, and ISWS |
| | | 12/15/2022 | Final CCO | Effingham County EMA, FEMA, IDNR-OWR, and ISWS |
| | | 3/9/2023 | Other | IDNR-OWR, and ISWS |

Table 29: Community Meetings (continued)

| Community | FIS Report Dated | Date of Meeting | Meeting Type | Attended By |
|--|------------------|-----------------|-------------------|---|
| Effingham County Unincorporated Areas | 1/17/2025 | 8/18/2016 | Project Discovery | FEMA, IDNR-OWR, IEMA, ISWS, and the community |
| | | 2/18/2020 | Flood Risk Review | Effingham County EMA, ISWS, and the community |
| | | 12/15/2022 | Final CCO | Effingham County EMA, FEMA, IDNR-OWR, ISWS, and the community |
| | | 3/9/2023 | Other | IDNR-OWR, ISWS, and the community |
| Effingham, City of | 1/17/2025 | 8/18/2016 | Project Discovery | FEMA, IDNR-OWR, IEMA, ISWS, and the community |
| | | 2/18/2020 | Flood Risk Review | Effingham County EMA, ISWS, and the community |
| | | 12/15/2022 | Final CCO | Effingham County EMA, FEMA, IDNR-OWR, ISWS, and the community |
| | | 3/9/2023 | Other | IDNR-OWR, ISWS, and the community |
| Mason, Town of | 1/17/2025 | 8/18/2016 | Project Discovery | FEMA, IDNR-OWR, IEMA, and ISWS |
| | | 2/18/2020 | Flood Risk Review | Effingham County EMA, and ISWS |
| | | 12/15/2022 | Final CCO | Effingham County EMA, FEMA, IDNR-OWR, and ISWS |
| | | 3/9/2023 | Other | IDNR-OWR, and ISWS |
| Montrose, Village of | 1/17/2025 | 8/18/2016 | Project Discovery | FEMA, IDNR-OWR, IEMA, and ISWS |
| | | 2/18/2020 | Flood Risk Review | Effingham County EMA, and ISWS |
| | | 12/15/2022 | Final CCO | Effingham County EMA, FEMA, IDNR-OWR, and ISWS |
| | | 3/9/2023 | Other | IDNR-OWR, and ISWS |

Table 29: Community Meetings (continued)

| Community | FIS Report Dated | Date of Meeting | Meeting Type | Attended By |
|------------------------|------------------|-----------------|-------------------|--|
| Shumway, Village of | 1/17/2025 | 8/18/2016 | Project Discovery | FEMA, IDNR-OWR, IEMA, and ISWS |
| | | 2/18/2020 | Flood Risk Review | Effingham County EMA, and ISWS |
| | | 12/15/2022 | Final CCO | Effingham County EMA, FEMA, IDNR-OWR, and ISWS |
| | | 3/9/2023 | Other | IDNR-OWR, and ISWS |
| Teutopolis, Village of | 1/17/2025 | 8/18/2016 | Project Discovery | FEMA, IDNR-OWR, IEMA, ISWS, and the community |
| | | 2/18/2020 | Flood Risk Review | Effingham County EMA, and ISWS |
| | | 12/15/2022 | Final CCO | Effingham County EMA, FEMA, IDNR-OWR, and ISWS |
| | | 3/9/2023 | Other | IDNR-OWR, and ISWS |
| Watson, Village of | 1/17/2025 | 8/18/2016 | Project Discovery | FEMA, IDNR-OWR, IEMA, and ISWS |
| | | 2/18/2020 | Flood Risk Review | Effingham County EMA, and ISWS |
| | | 12/15/2022 | Final CCO | Effingham County EMA, FEMA, IDNR-OWR, and ISWS |
| | | 3/9/2023 | Other | IDNR-OWR, and ISWS |

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 www.fema.gov.

Table 30 is a list of the locations where FIRMs for Effingham 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 30: Map Repositories

| Community | Address | City | State | Zip Code |
|---|--|-----------------|-------|----------|
| Altamont, City of | Municipal Building, 202 North 2nd Street | Altamont | IL | 62411 |
| Beecher City, Village of ¹ | Village Hall, 108 South George Street | Beecher City | IL | 62414 |
| Dieterich, Village of | Village Hall, 103 West Section Street | Dieterich | IL | 62424 |
| Edgewood, Village of ¹ | Village Hall, 405 Route 37 | Edgewood | IL | 62426 |
| Effingham County Unincorporated Areas | Effingham County Courthouse, 101 North 4th Street, Suite 304 | Effingham | IL | 62401 |
| Effingham, City of | City Hall, 201 East Jefferson Avenue | Effingham | IL | 62401 |
| Mason, Town of ¹ | Village Hall, 636 Independence Street | Mason | IL | 62443 |
| Montrose, Village of ¹ | Village Hall, 203 West National Road | Montrose | IL | 62445 |
| Shumway, Village of ¹ | Village Hall, 104 Front Street | Shumway | IL | 62461 |
| Teutopolis, Village of | Village Hall, 106 West Main Street | Teutopolis | IL | 62467 |
| Watson, Village of | Village Hall, 104 North Monroe Street | Watson | IL | 62473 |

¹ No Special Flood Hazard Areas Identified

The National Flood Hazard Layer (NFHL) dataset is a compilation of effective FIRM Databases and LOMCs. Together they create a GIS data layer for a State or Territory. The NFHL is updated as studies become effective and extracts are made available to the public monthly. NFHL data can be viewed or ordered from the website shown in Table 31.

Table 31 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 31: Additional Information

| FEMA and the NFIP | |
|---|---|
| FEMA and FEMA Engineering Library website | www.fema.gov |
| | www.fema.gov/engineering-library |
| NFIP website | www.fema.gov/national-flood-insurance-program |
| NFHL Dataset | msc.fema.gov |
| FEMA Region V | 536 South Clark Street Chicago, IL 60605 (312) 408-5500 |
| Other Federal Agencies | |
| USGS website | www.usgs.gov |
| Hydraulic Engineering Center website | www.hec.usace.army.mil |
| State Agencies and Organizations | |
| State NFIP Coordinator | Erin C. Conley Illinois Department of Natural Resources One Natural Resources Way Springfield, IL 62702-1271 (217) 782-4428 erin.c.conley@illinois.gov |
| State GIS Coordinator | Mark Yacucci Illinois State Geological Survey 615 East Peabody Drive Champaign, IL 61820 (217) 265-0747 yacucci@illinois.edu |

SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES

Table 32 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 32: 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 |
|----------------------|-------------------------------------|---|-----------------|----------------------|-------------------------------------|---|
| EC 2021a | Effingham County, Illinois | <i>Effingham County Municipal Boundaries</i> | | Effingham, IL | July 7, 2021 | http://www.co.effingham.il.us |
| EC 2021b | Effingham County, Illinois | <i>Effingham County Roads</i> | | Effingham, IL | July 7, 2021 | http://www.co.effingham.il.us |
| EDN 2017 | Effingham Daily News | <i>Rain leads to flooding across area</i> | Graham Milldrum | Effingham, IL | April 30, 2017 | https://www.effinghamdailynews.com |
| ER 2019 | Effingham Radio | <i>Flooding Reported on Effingham Streets</i> | | Effingham, IL | May 29, 2019 | https://www.effinghamradio.com |
| FAA 2021 | Federal Aviation Administration | <i>Runways</i> | | Silver Spring, MD | June 17, 2021 | https://www.faa.gov |
| FEMA 1977 | Federal Emergency Management Agency | <i>Flood Hazard Boundary Map, Effingham County Unincorporated Areas, Illinois</i> | | Washington, DC | December 23, 1977 | https://msc.fema.gov |
| FEMA 1979 | Federal Emergency Management Agency | <i>Flood Hazard Boundary Map, Village of Watson, Illinois, Effingham County</i> | | Washington, DC | February 2, 1979 | https://msc.fema.gov |

Table 32: Bibliography and References (continued)

| Citation in this FIS | Publisher/ Issuer | <i>Publication Title, "Article," Volume, Number, etc.</i> | Author/ Editor | Place of Publication | Publication Date / Date of Issuance | Link |
|----------------------|-------------------------------------|--|----------------|----------------------|-------------------------------------|---|
| FEMA 1985a | Federal Emergency Management Agency | <i>Flood Insurance Rate Map, City of Altamont, Illinois, Effingham County</i> | | Washington, DC | September 4, 1985 | https://msc.fema.gov |
| FEMA 1985b | Federal Emergency Management Agency | <i>Flood Insurance Rate Map, City of Effingham, Illinois, Effingham County</i> | | Washington, DC | July 18, 1985 | https://msc.fema.gov |
| FEMA 1985c | Federal Emergency Management Agency | <i>Flood Insurance Rate Map, Village of Teutopolis, Illinois, Effingham County</i> | | Washington, DC | August 19, 1985 | https://msc.fema.gov |
| ISGS 2003 | Illinois State Geological Survey | <i>Illinois Public Land Survey System</i> | | Champaign, IL | April 2003 | https://clearinghouse.isgs.illinois.edu |
| ISGS 2012 | Illinois State Geological Survey | <i>2011 Digital Terrain Model (DTM) for Effingham County, Illinois</i> | | Champaign, IL | June 25, 2012 | https://clearinghouse.isgs.illinois.edu |

Table 32: Bibliography and References (continued)

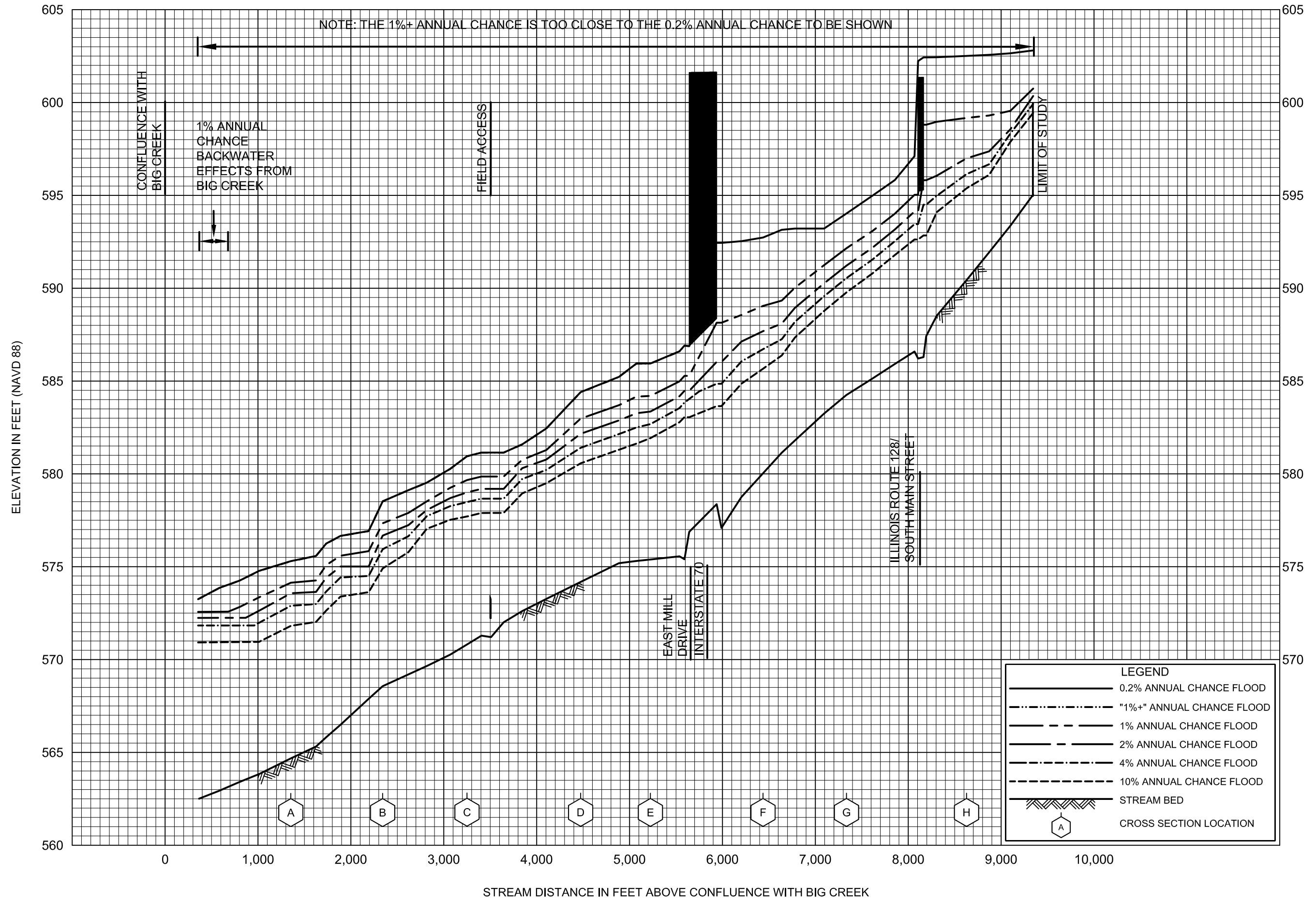
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|----------------------|-----------------------------|--|----------------|----------------------|-------------------------------------|------|
| ISWS 2021a | Illinois State Water Survey | <i>Hydrologic and Hydraulic Modeling and Floodplain Mapping for Little Wabash River, Coles, Cumberland, Shelby, Effingham, Clay, Richland, Wayne, and Edwards Counties, Illinois</i> | | Champaign, IL | November 2021 | |
| ISWS 2021b | Illinois State Water Survey | <i>Hydrologic and Hydraulic Modeling and Floodplain Mapping for Little Wabash River and Tributaries, Effingham and Clay County, Illinois</i> | | Champaign, IL | November 2021 | |

Table 32: Bibliography and References (continued)

| Citation in this FIS | Publisher/ Issuer | <i>Publication Title, "Article," Volume, Number, etc.</i> | Author/ Editor | Place of Publication | Publication Date / Date of Issuance | Link |
|----------------------|--|---|----------------|----------------------|-------------------------------------|------|
| ISWS 2021c | Illinois State Water Survey | <i>Hydrologic and Hydraulic Modeling and Floodplain Mapping for Salt Creek and Tributaries, Little Wabash River Tributary N and Tributaries, Little Wabash River Tributary O, and Big Creek Tributary A, Effingham County, Illinois</i> | | Champaign, IL | May 2021 | |
| USACE 1980 | U.S. Army Corps of Engineers, Chicago District | <i>Wabash River Basin, Central Illinois Public Service Dam, Effingham County, Illinois, Inventory Number 00606, Inspection Report, National Dam Safety Program</i> | | Chicago, IL | September 1980 | |

Table 32: Bibliography and References (continued)

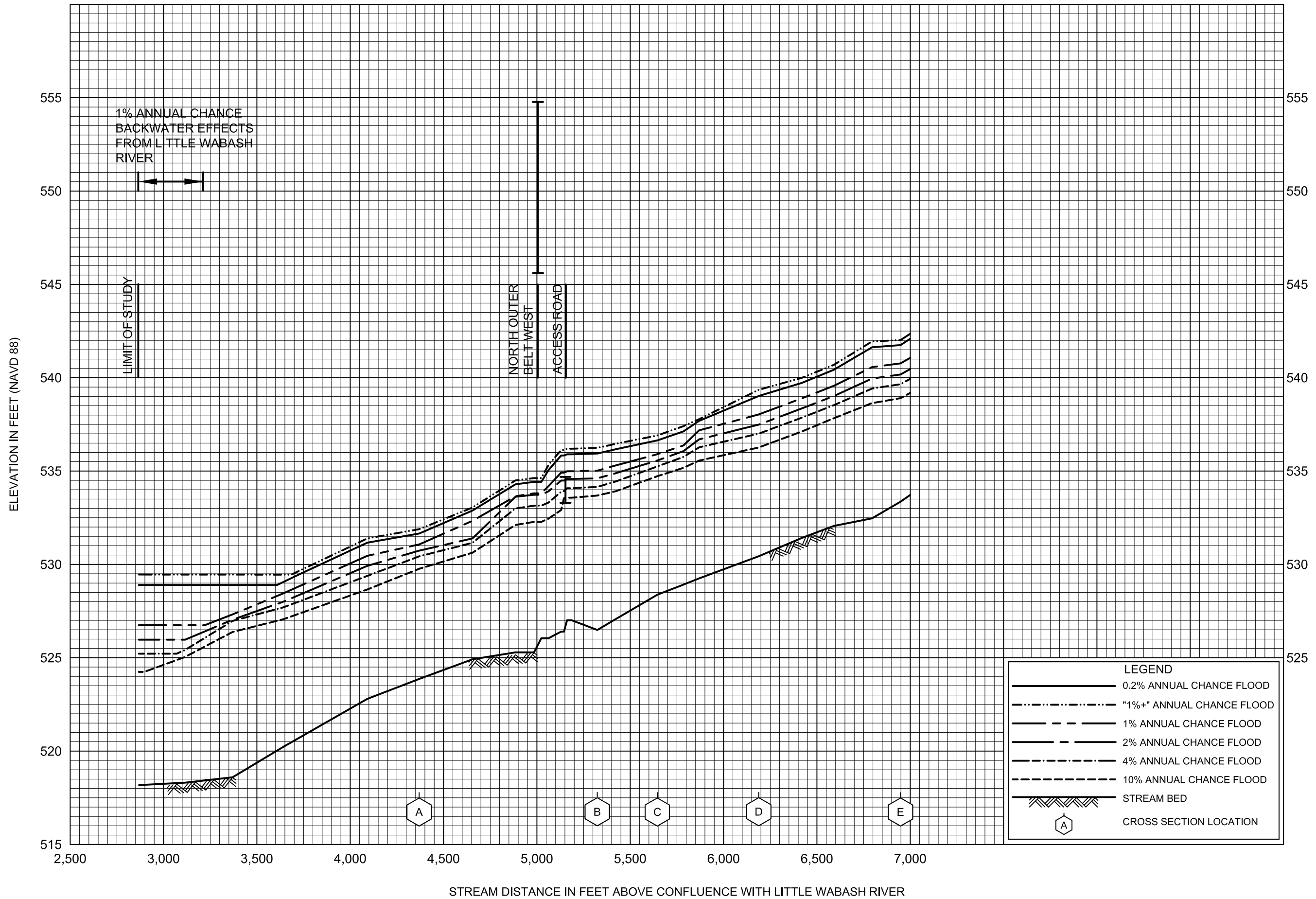
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|----------------------|------------------------|---|----------------|----------------------|-------------------------------------|---|
| USCB 2020 | U.S. Census Bureau | <i>TIGER/Line Shapefile, 2020, state, Illinois, Current Place State-based</i> | | Washington, DC | February 2021 | https://www.census.gov |
| USGS 1989 | U.S. Geological Survey | <i>USGS 7.5-Minute Series Topographic Maps</i> | | Sioux Falls, SD | 1989 | https://nationalmap.gov |
| USGS 2019 | U.S. Geological Survey | <i>National Hydrography Dataset</i> | | Reston, VA | June 22, 2019 | https://www.usgs.gov |
| USGS 2020 | U.S. Geological Survey | <i>USGS National Map: Orthoimagery</i> | | | October 2020 | https://nationalmap.gov |



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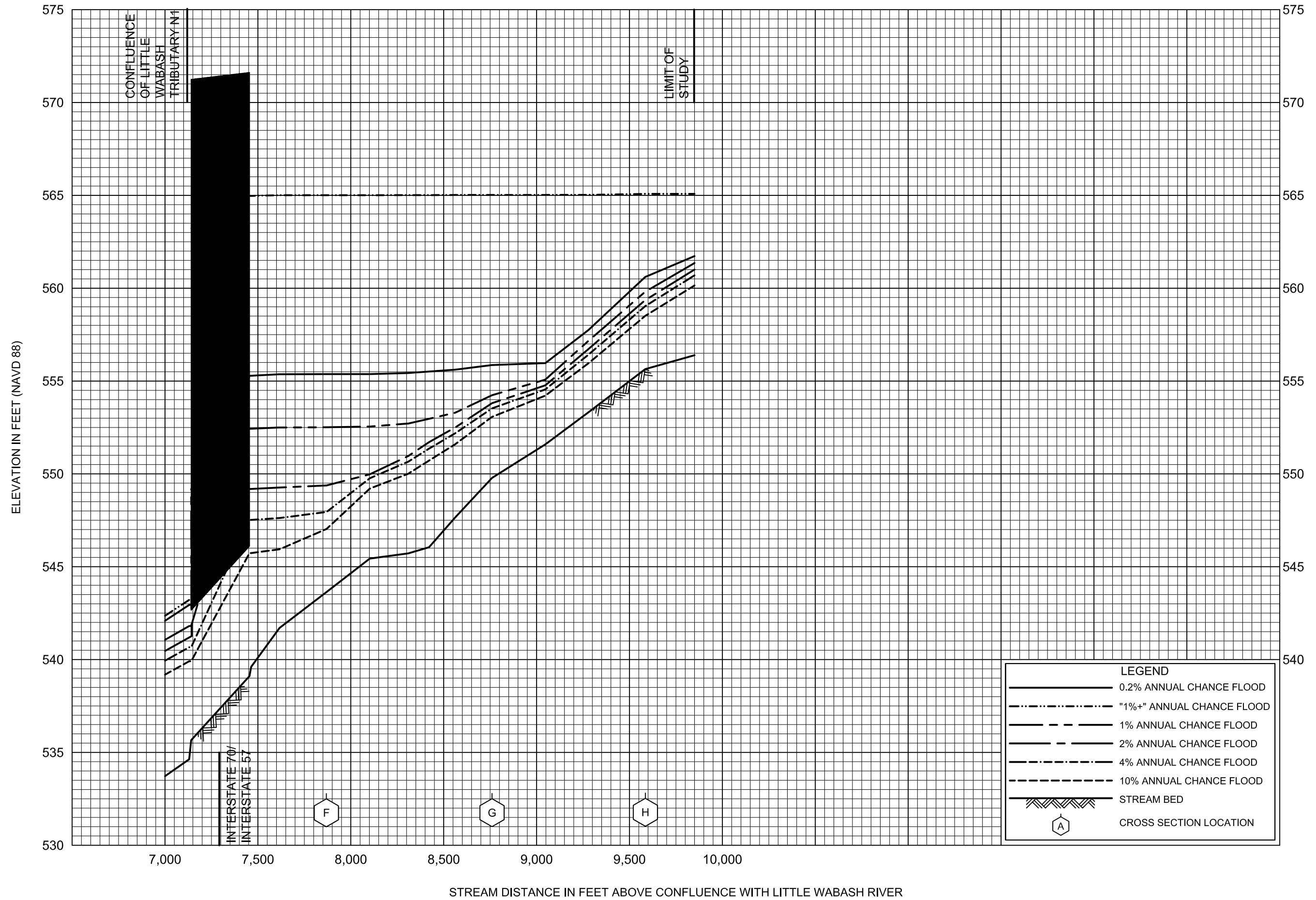
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LITTLE WABASH TRIBUTARY N

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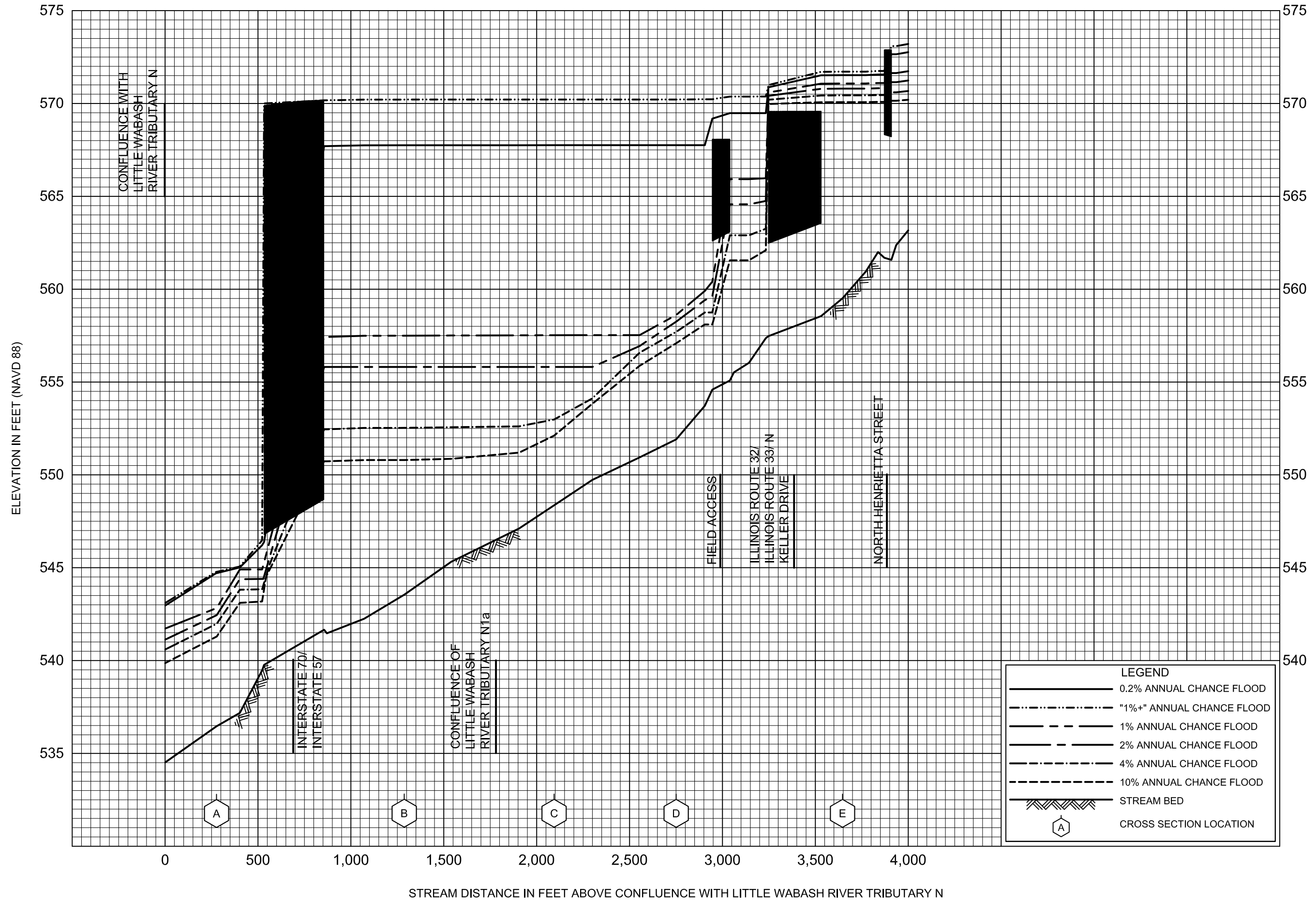
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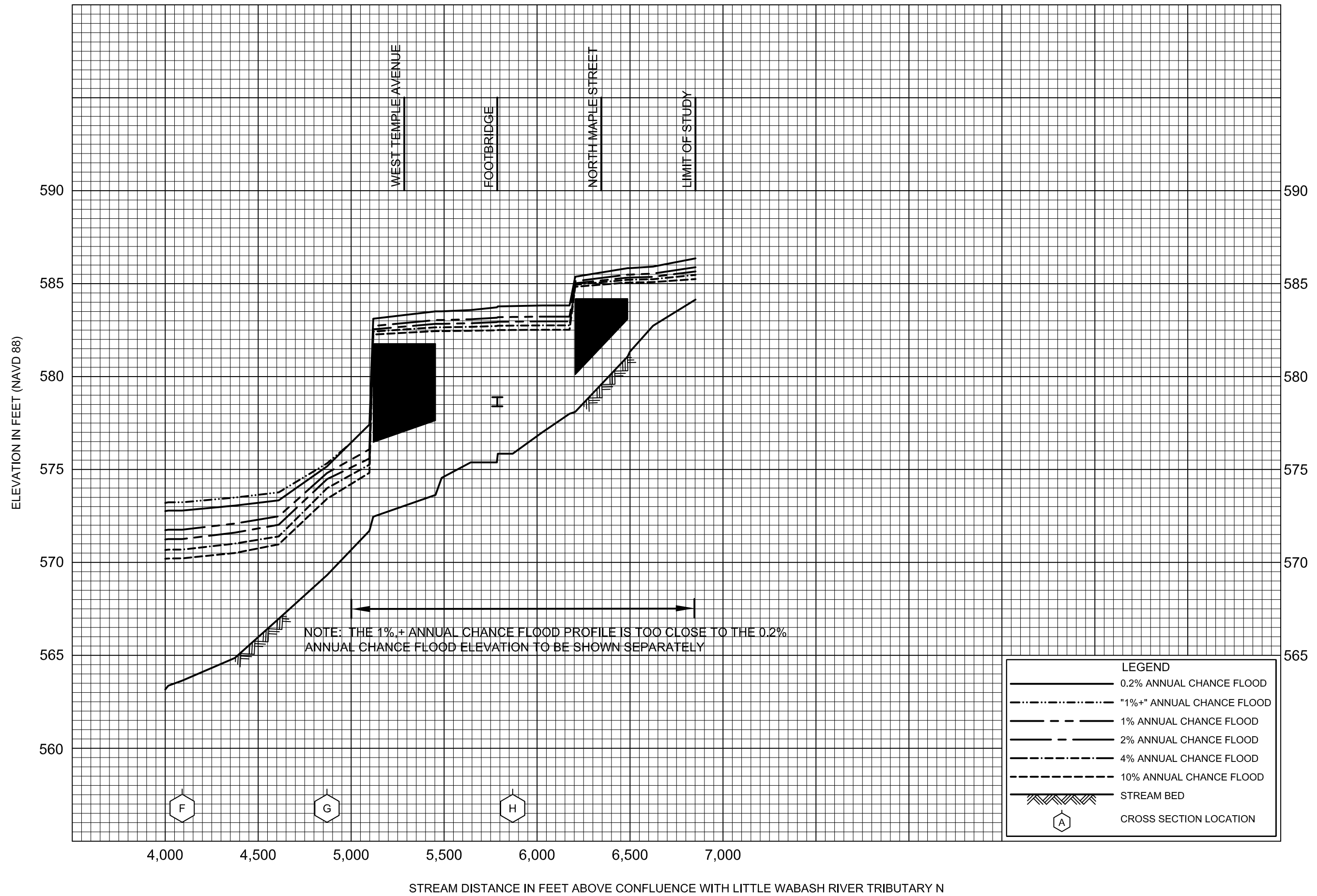


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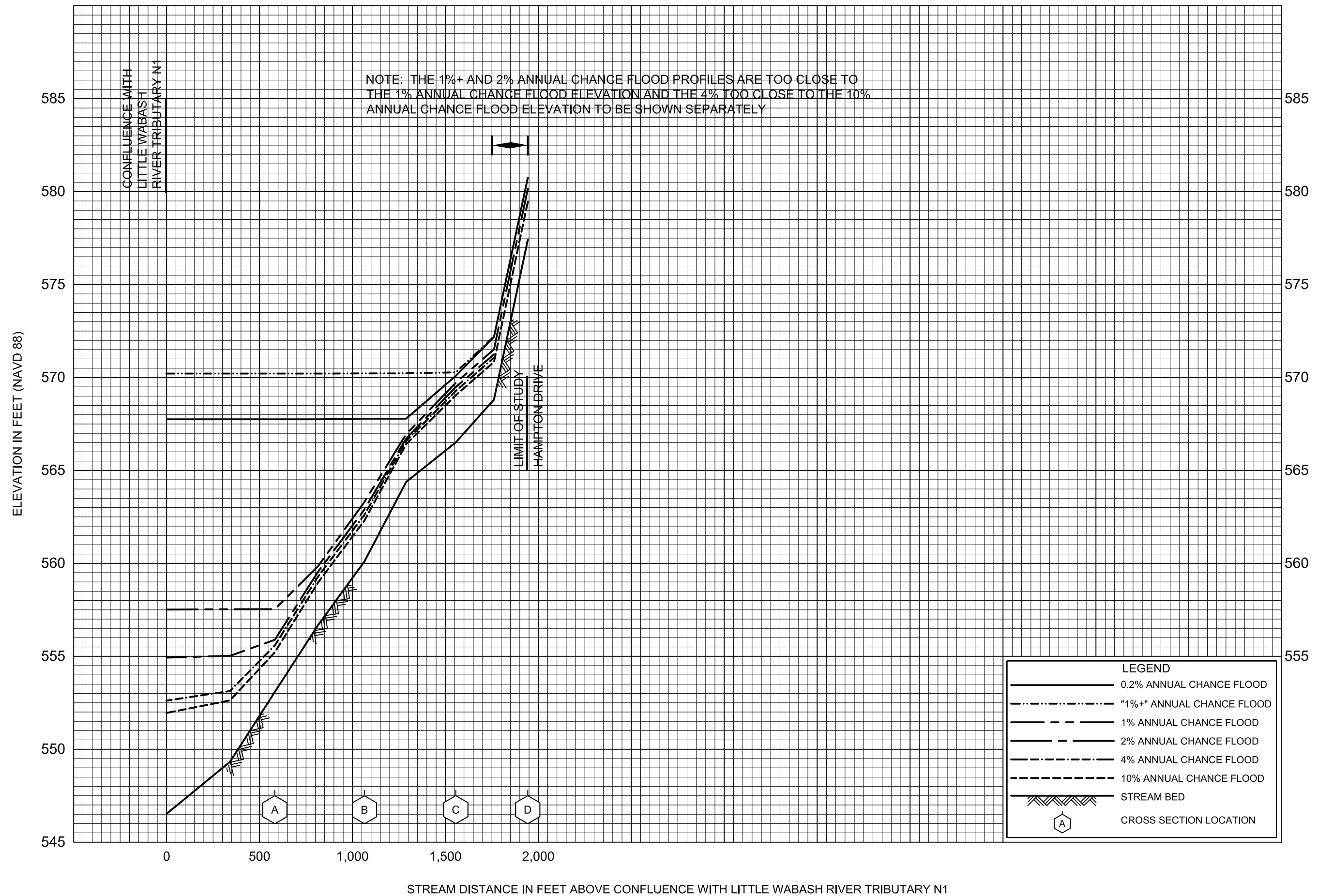
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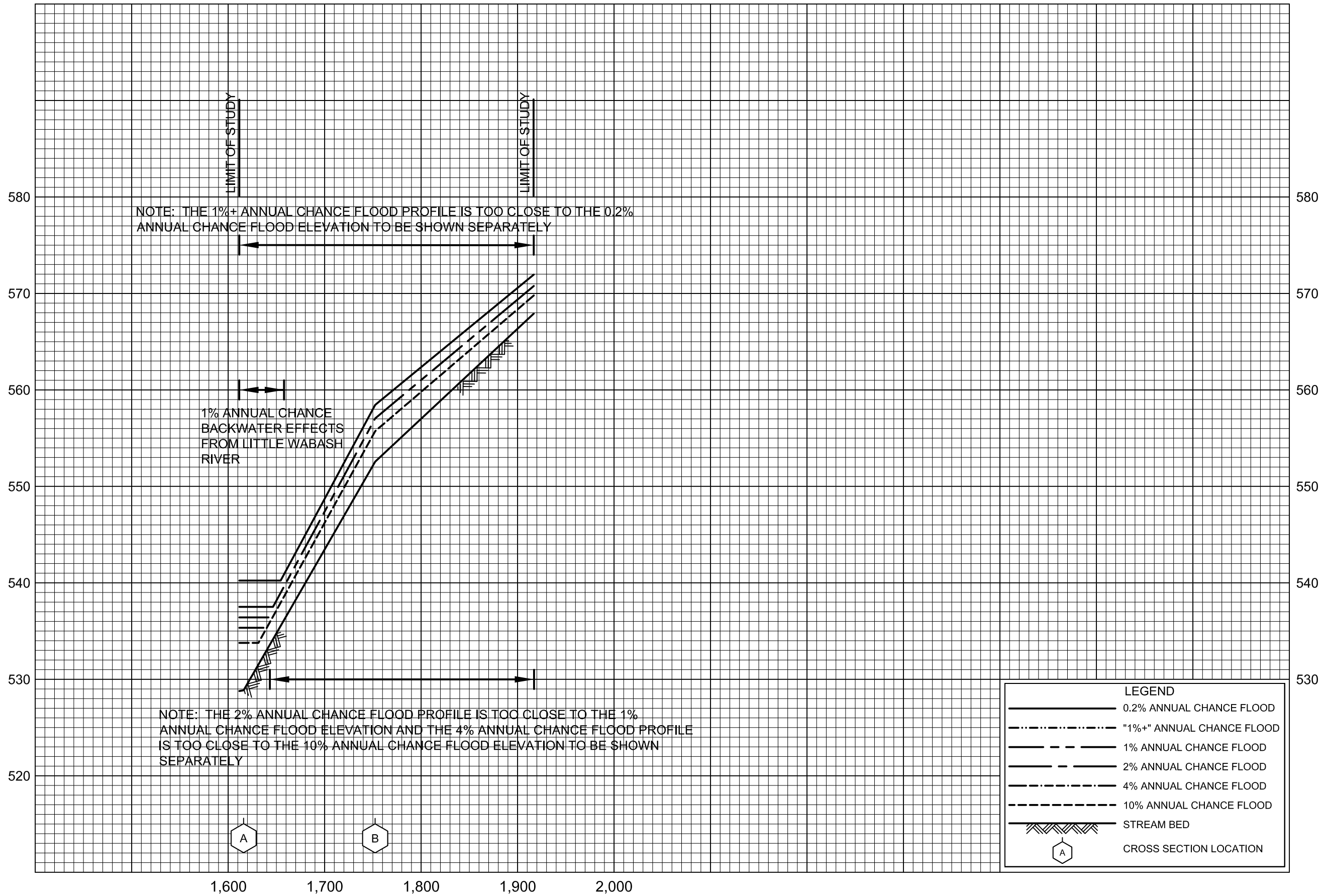
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ELEVATION IN FEET (NAVD 88)



STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH LITTLE WABASH RIVER

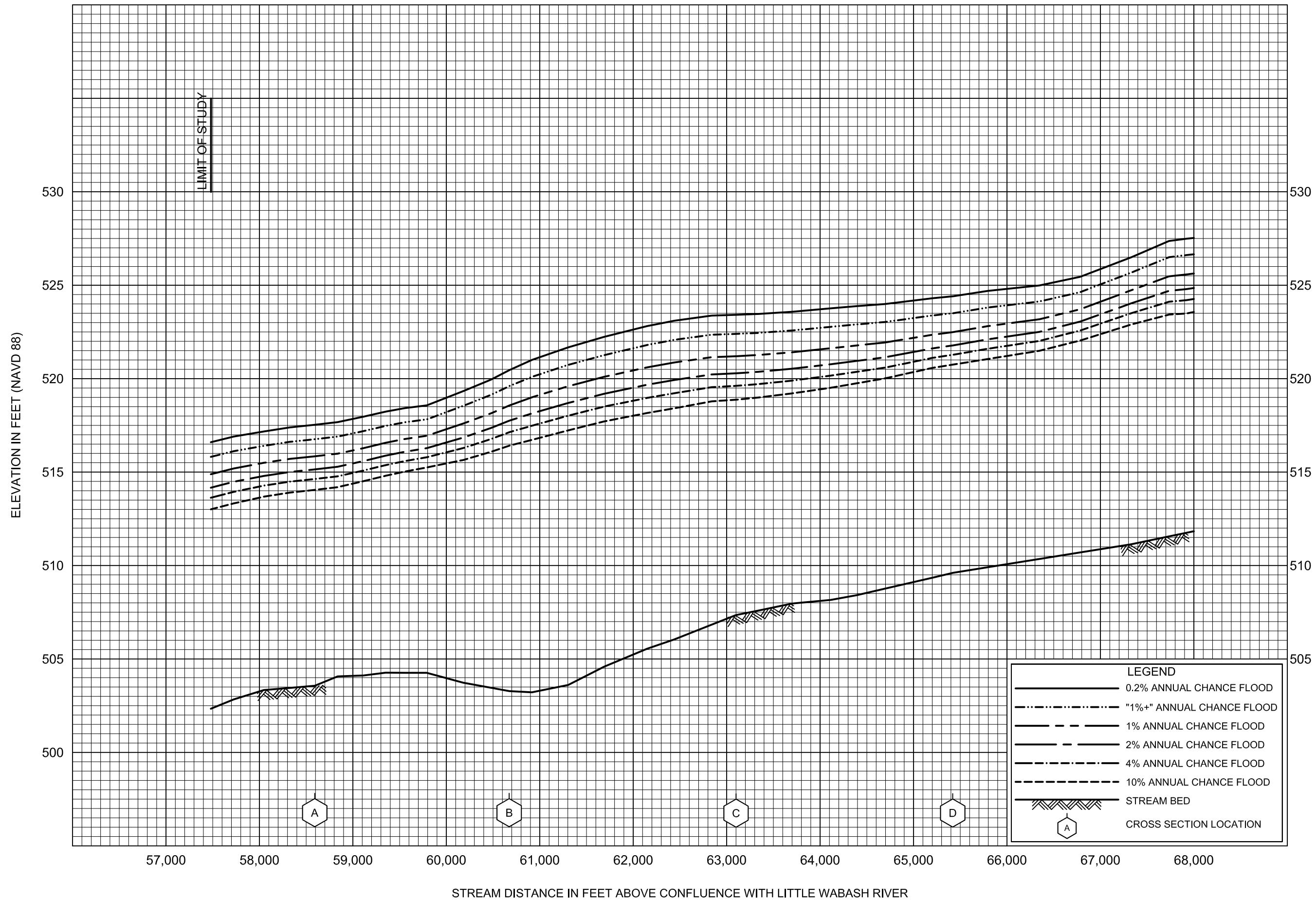
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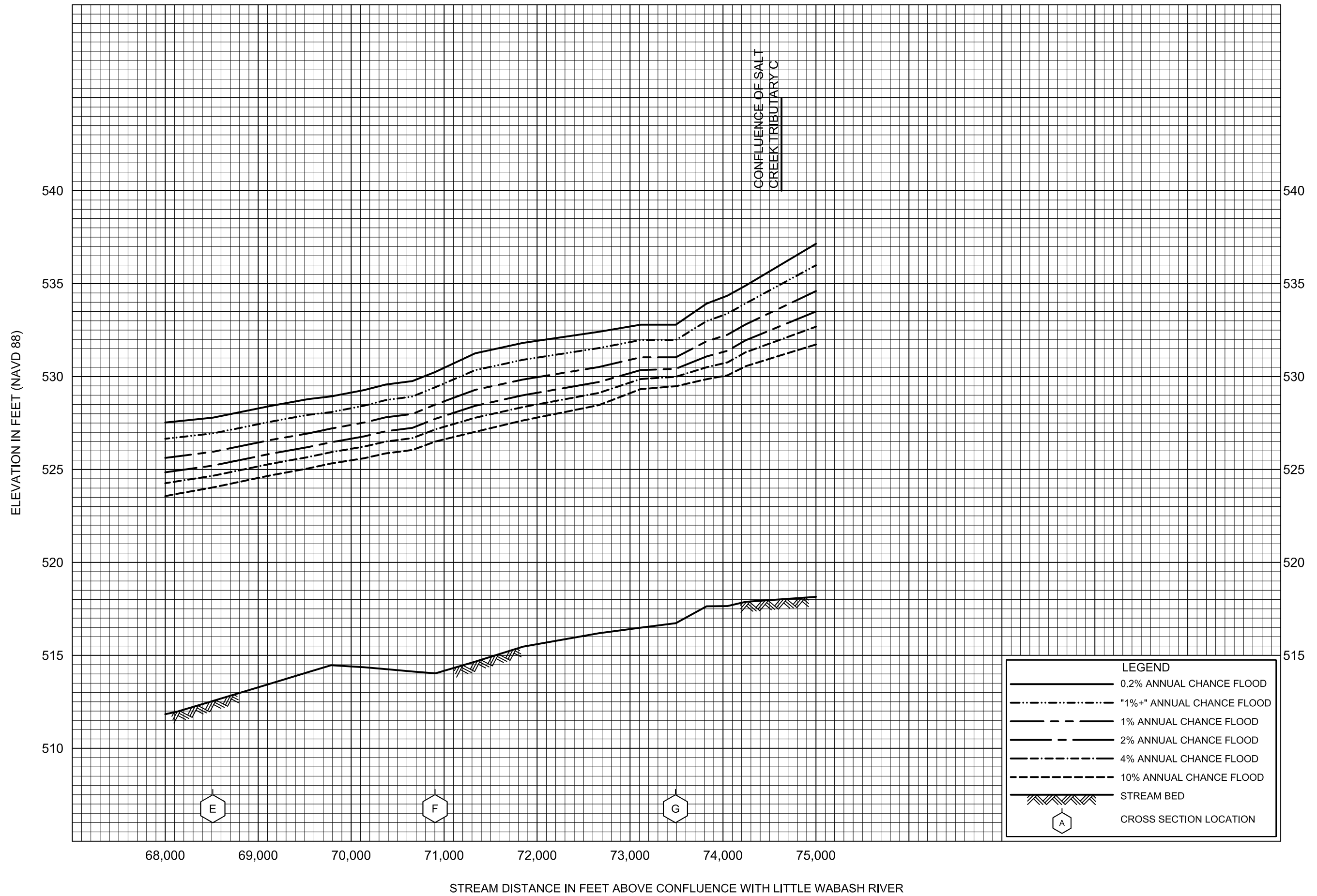
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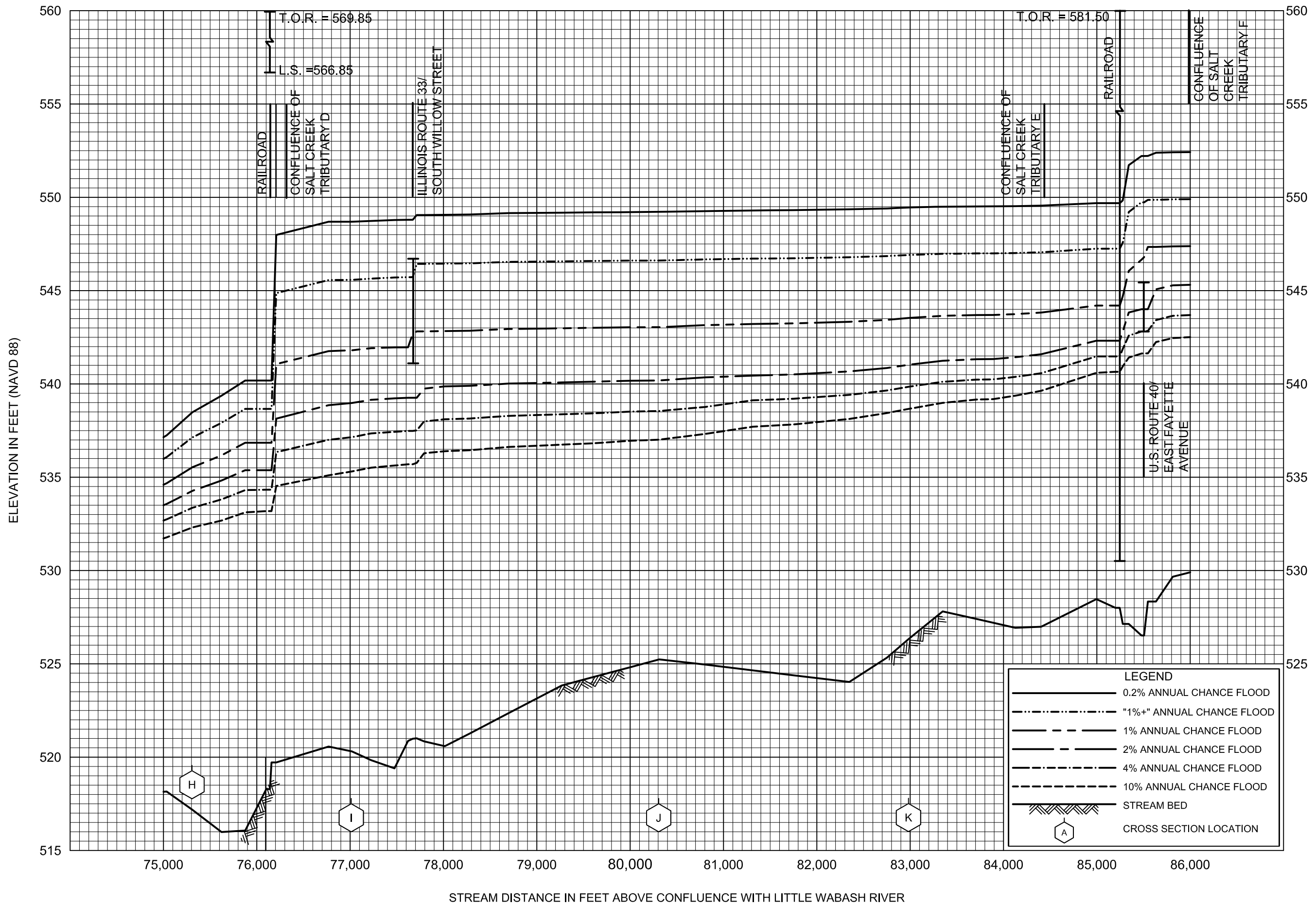
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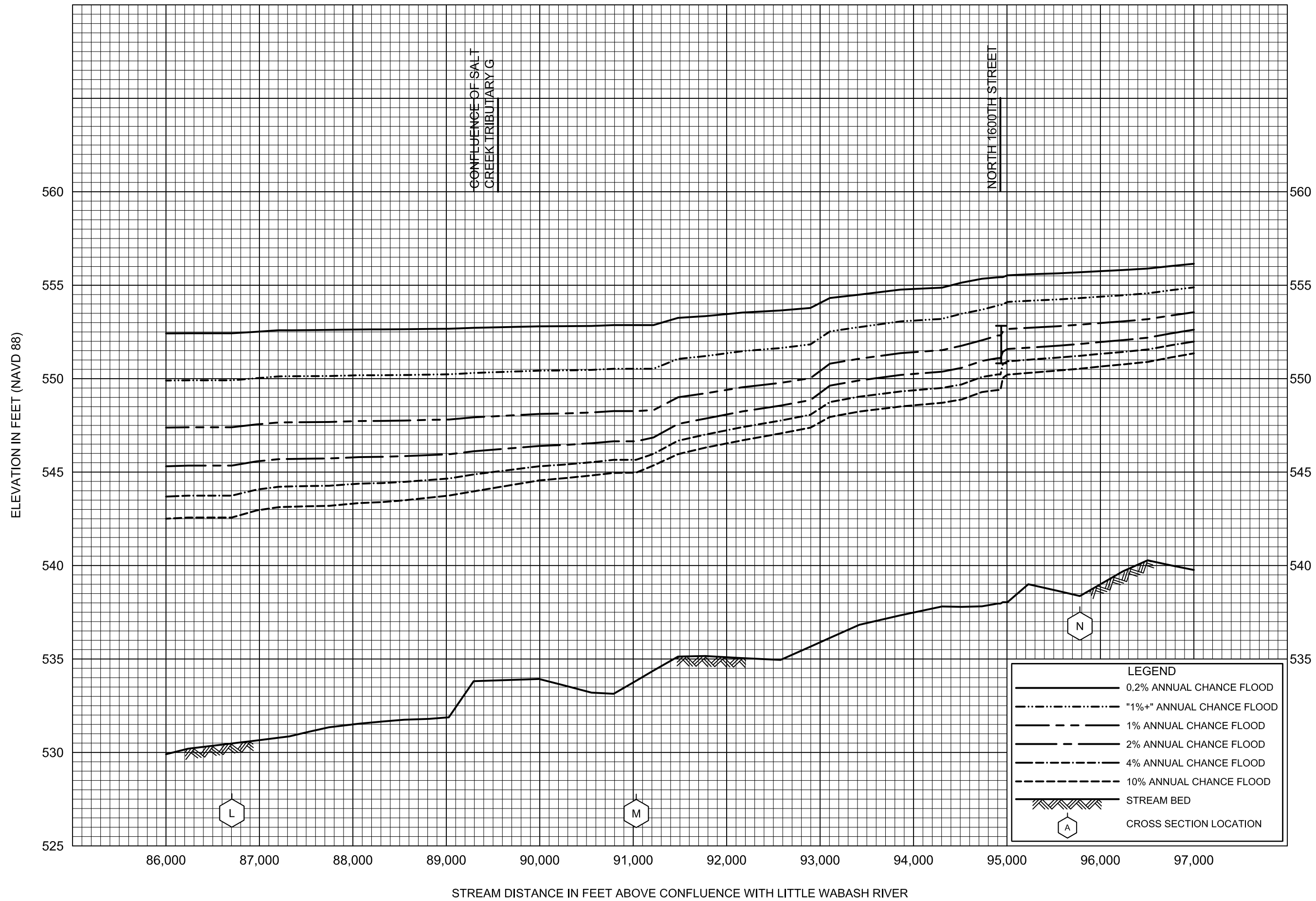
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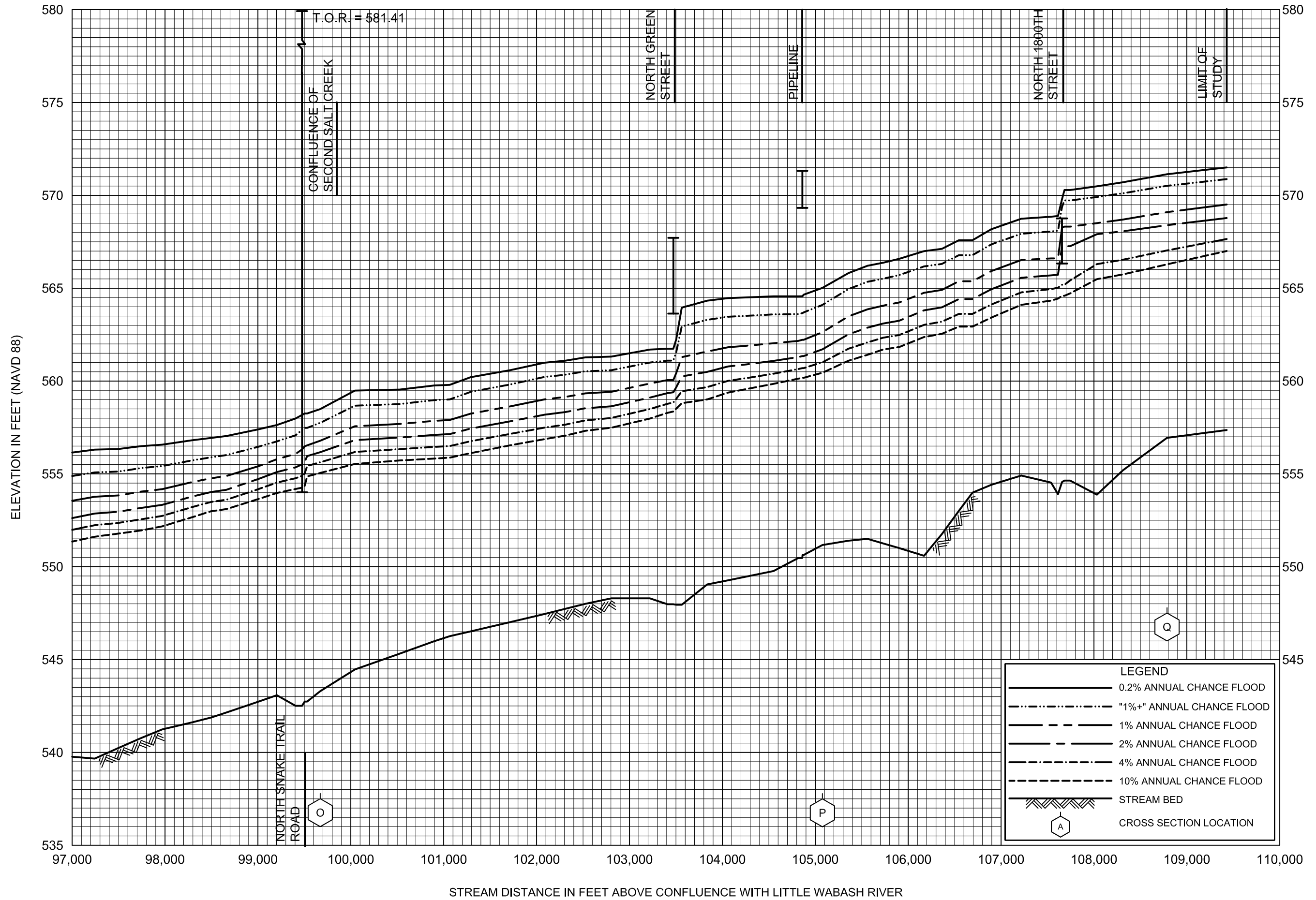
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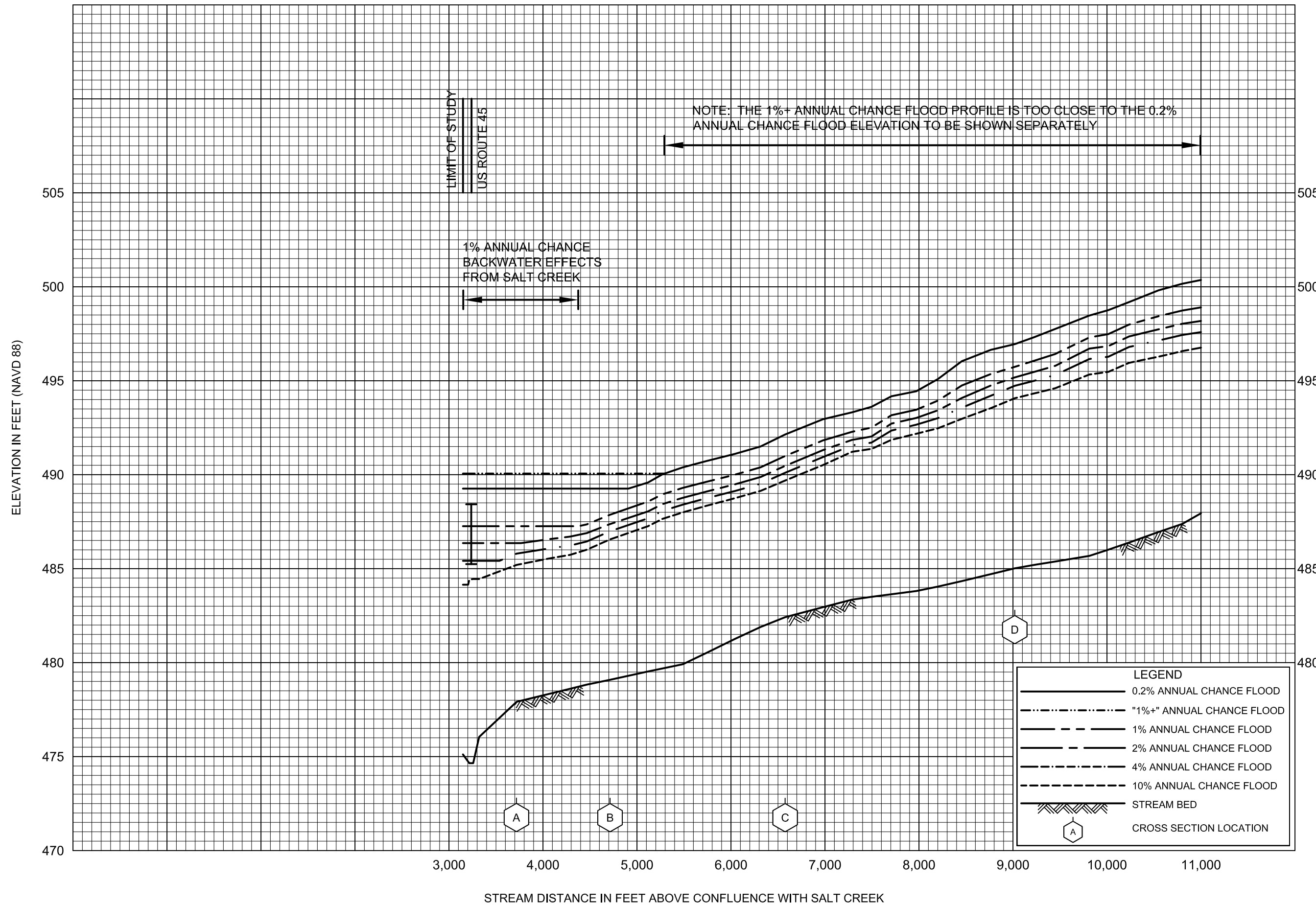
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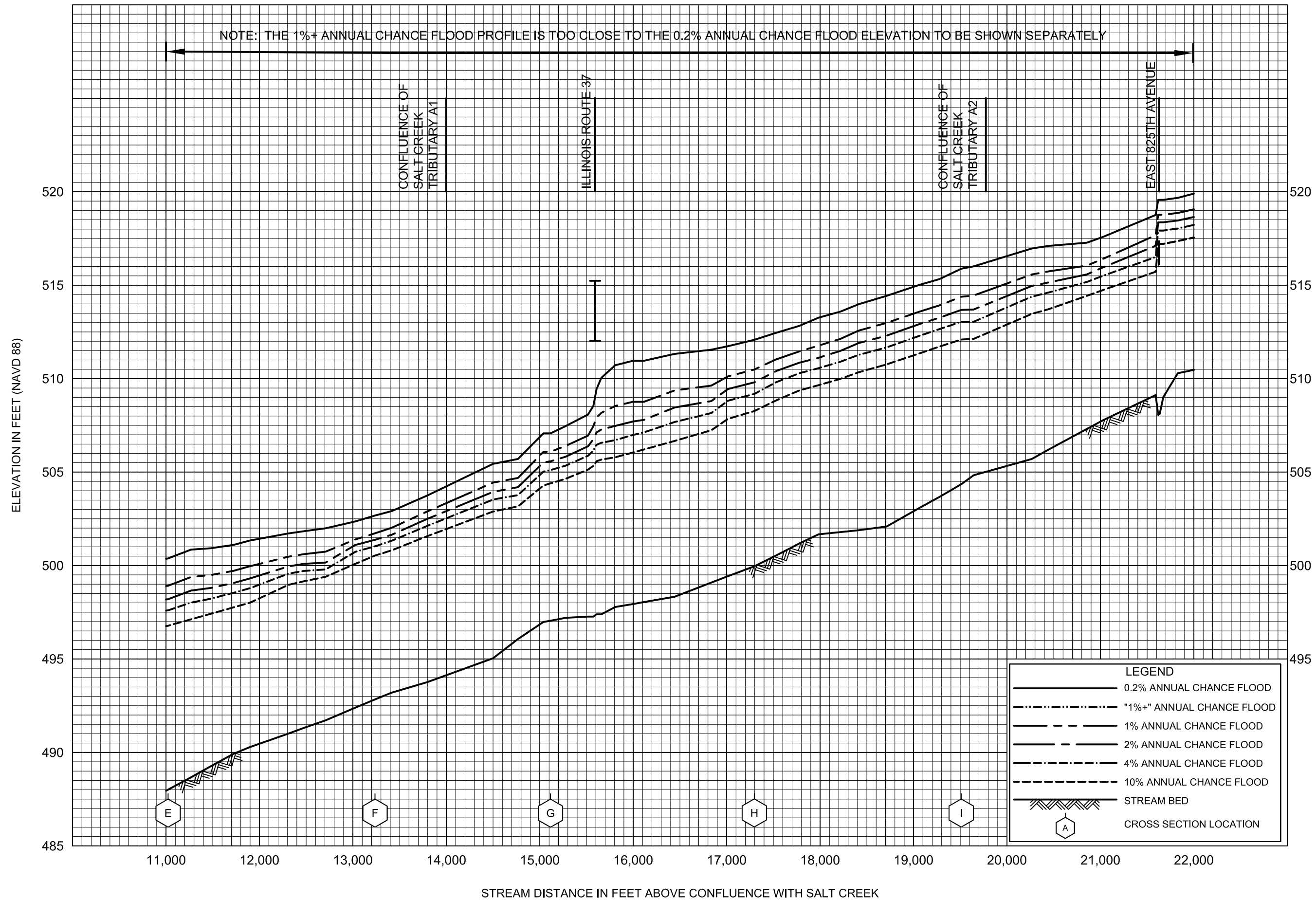
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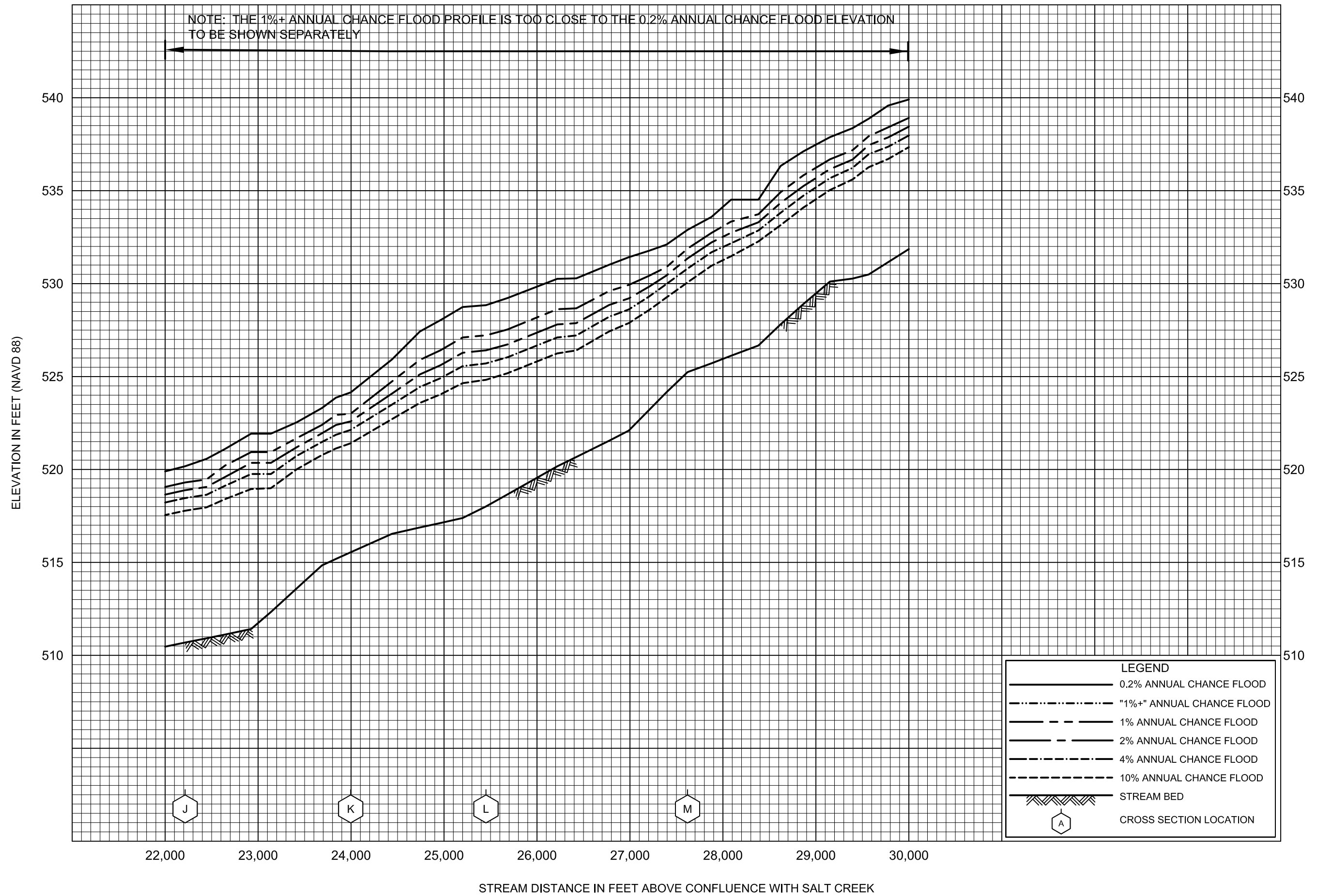


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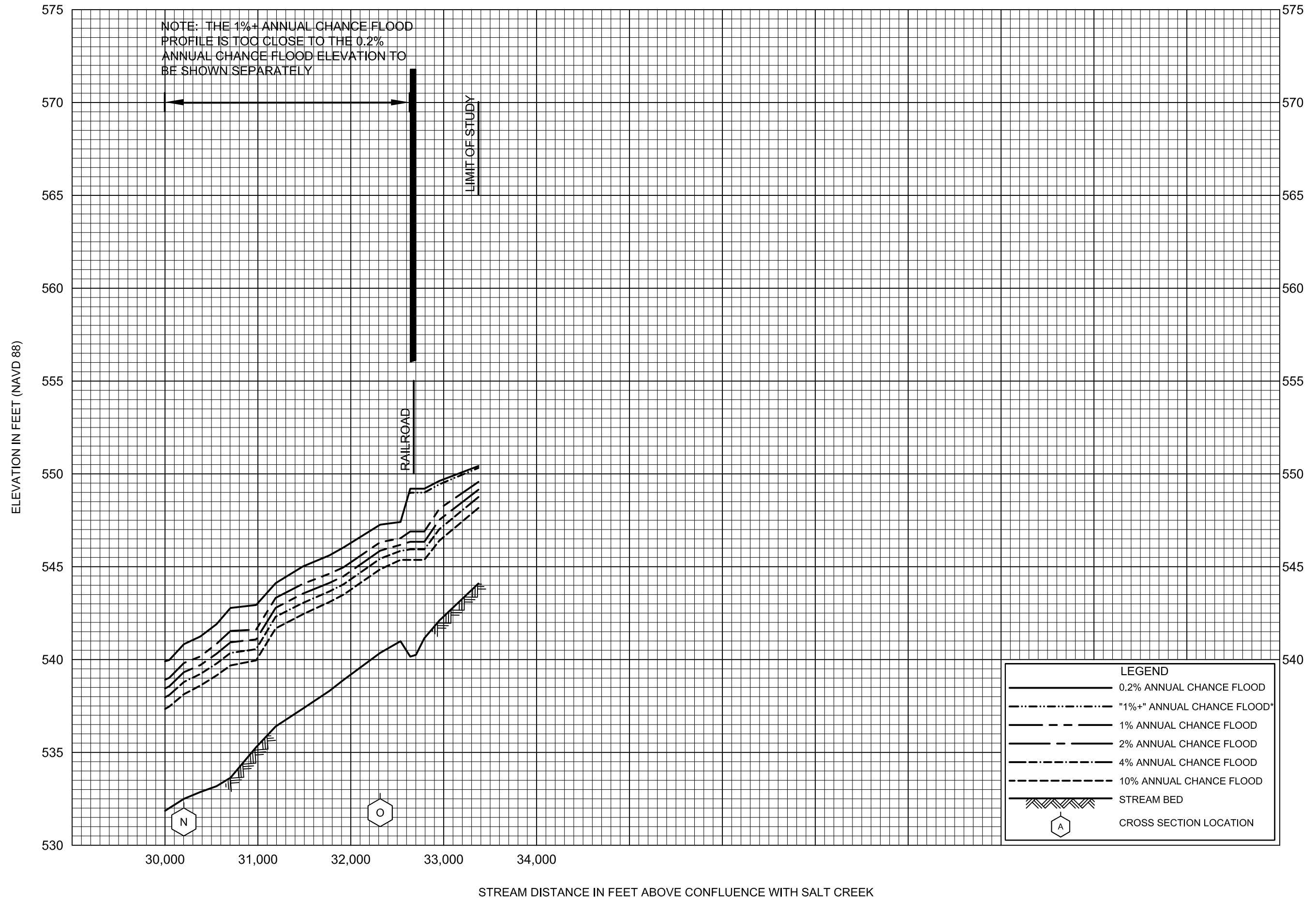
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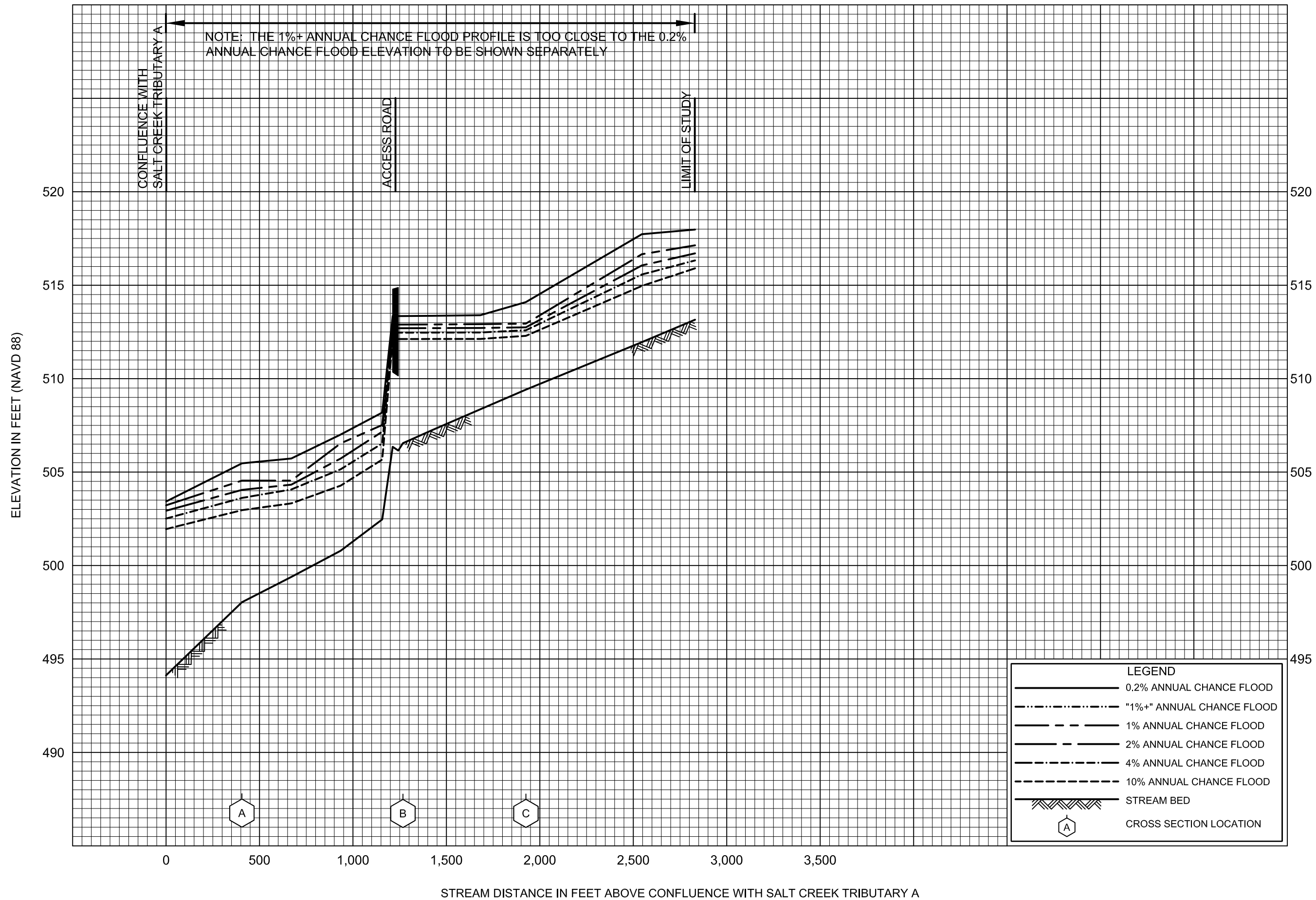
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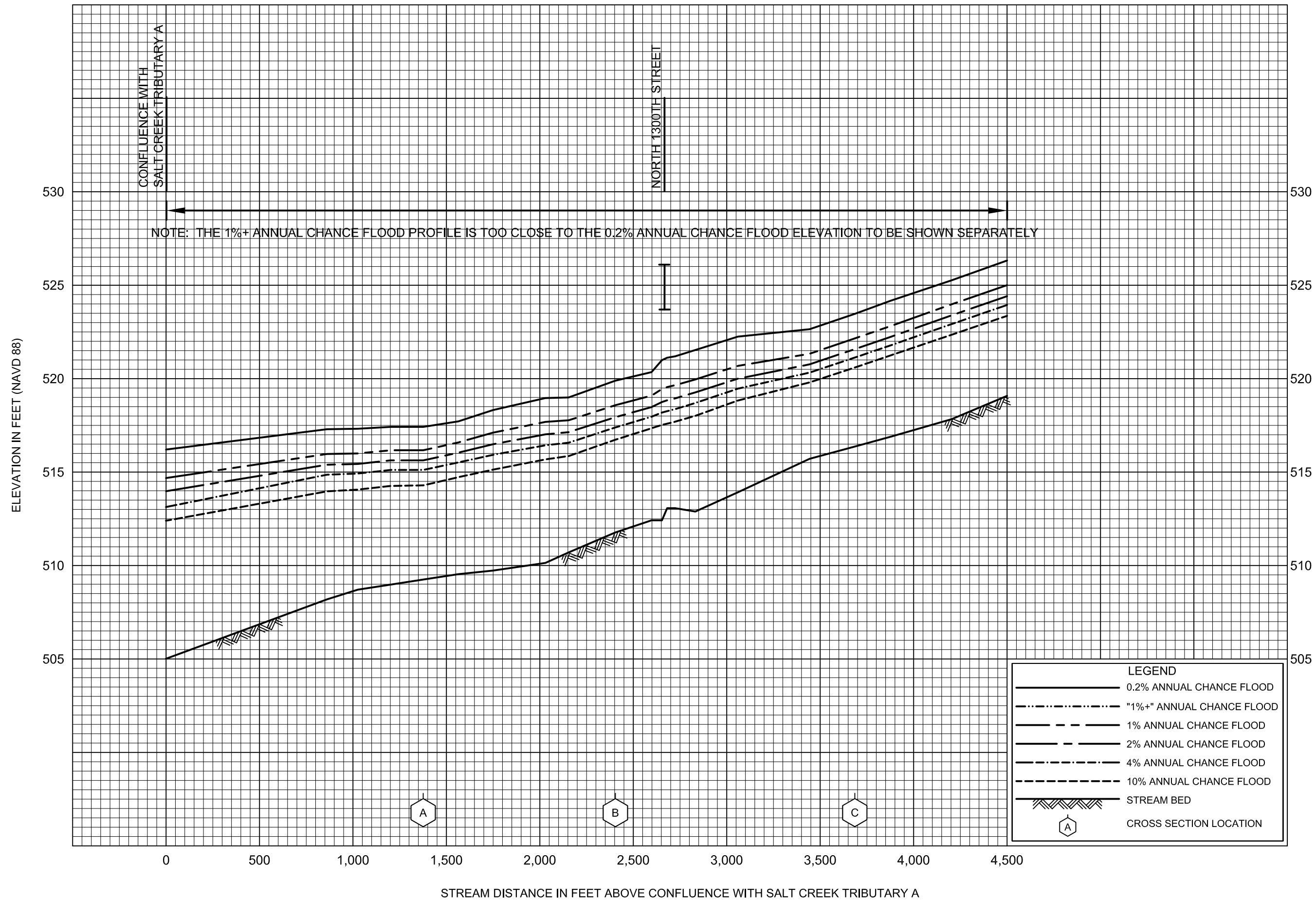


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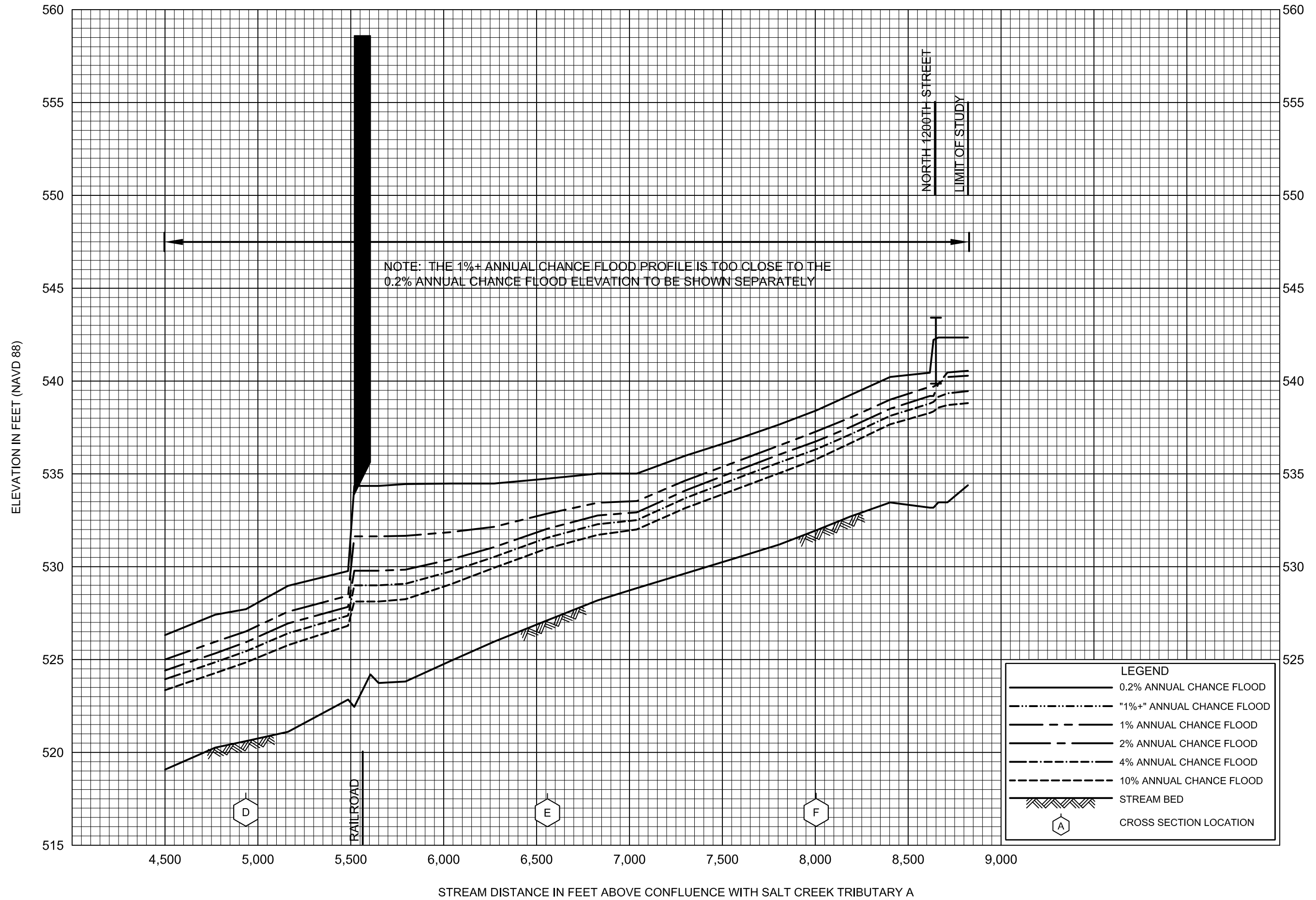
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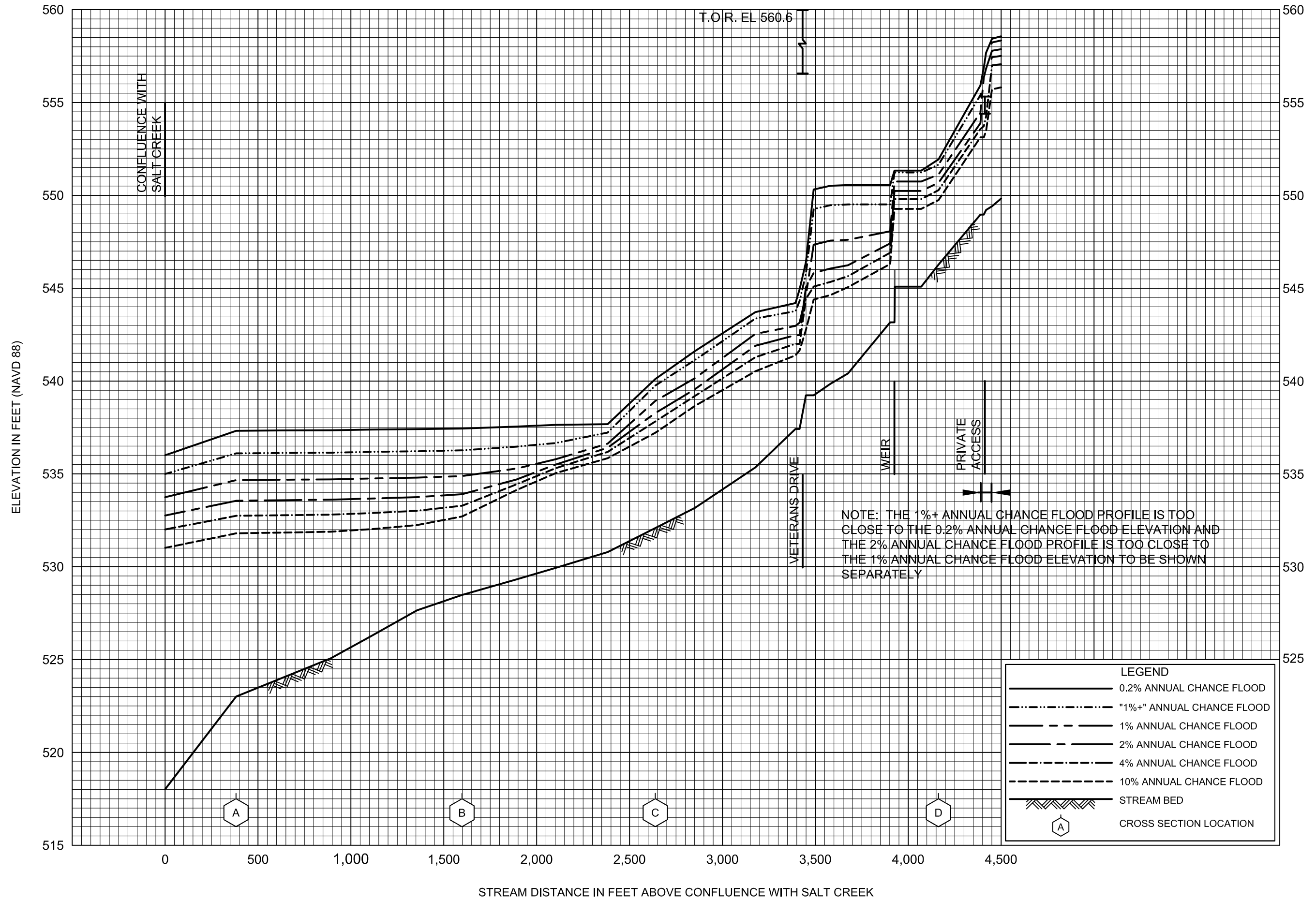


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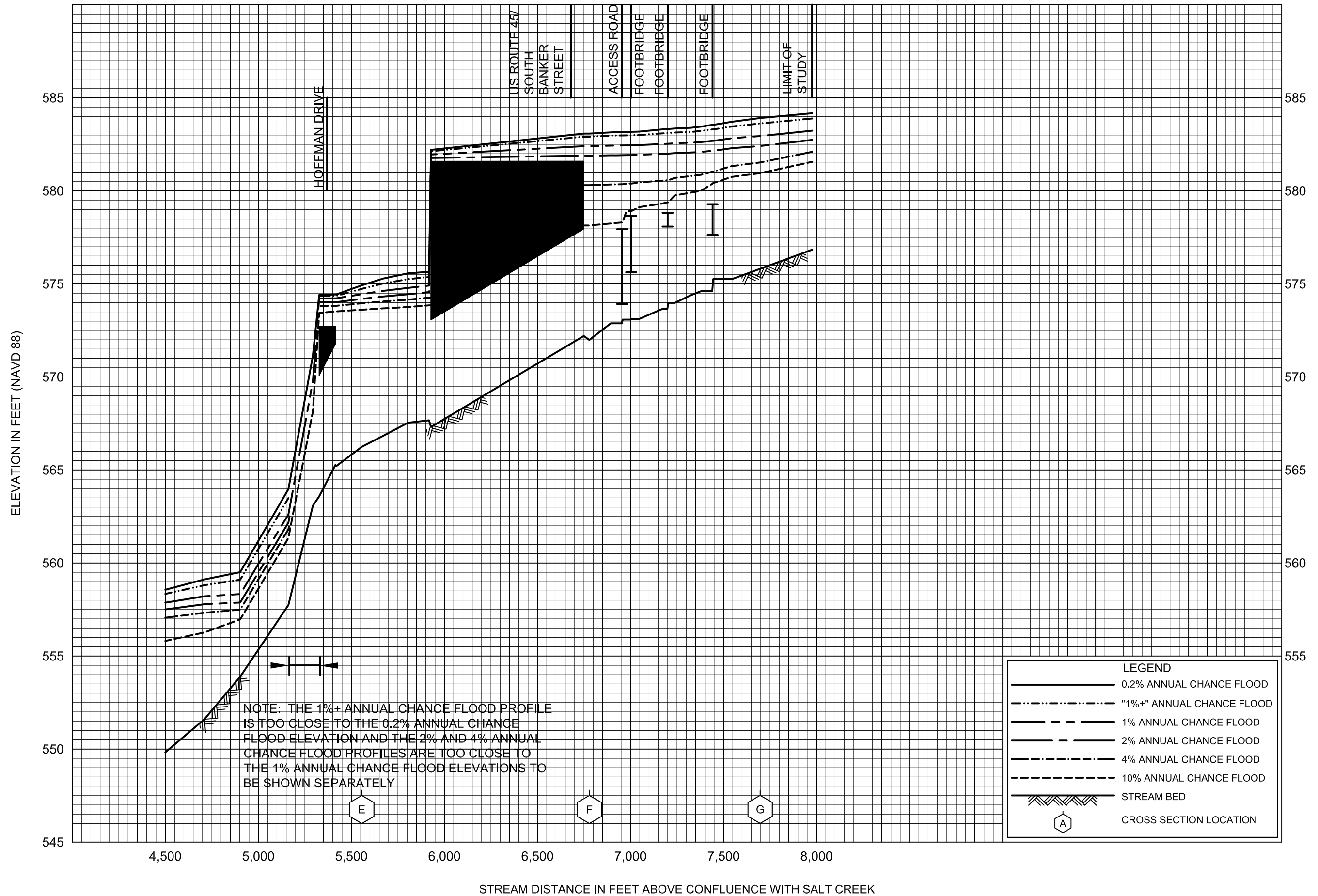
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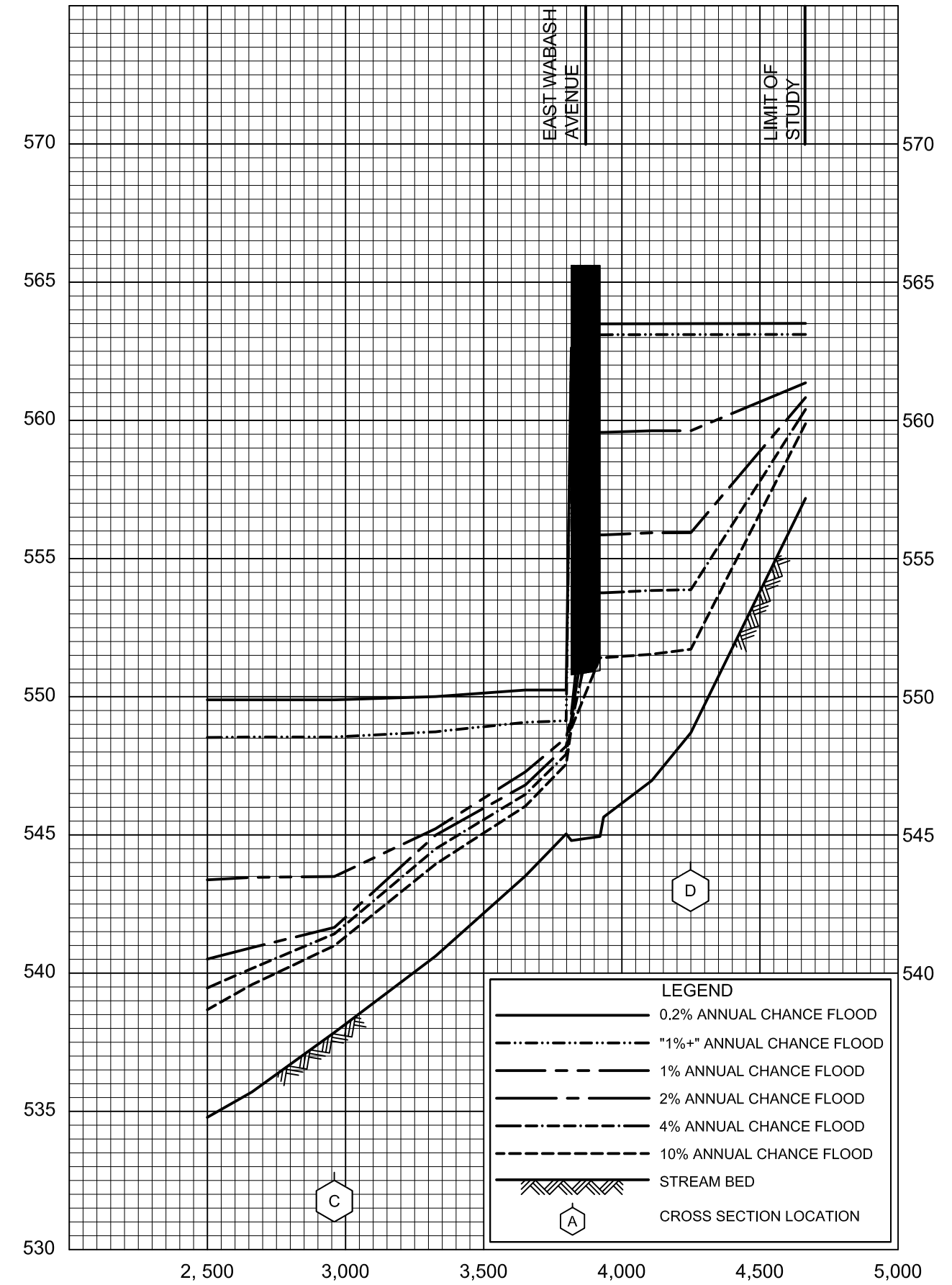
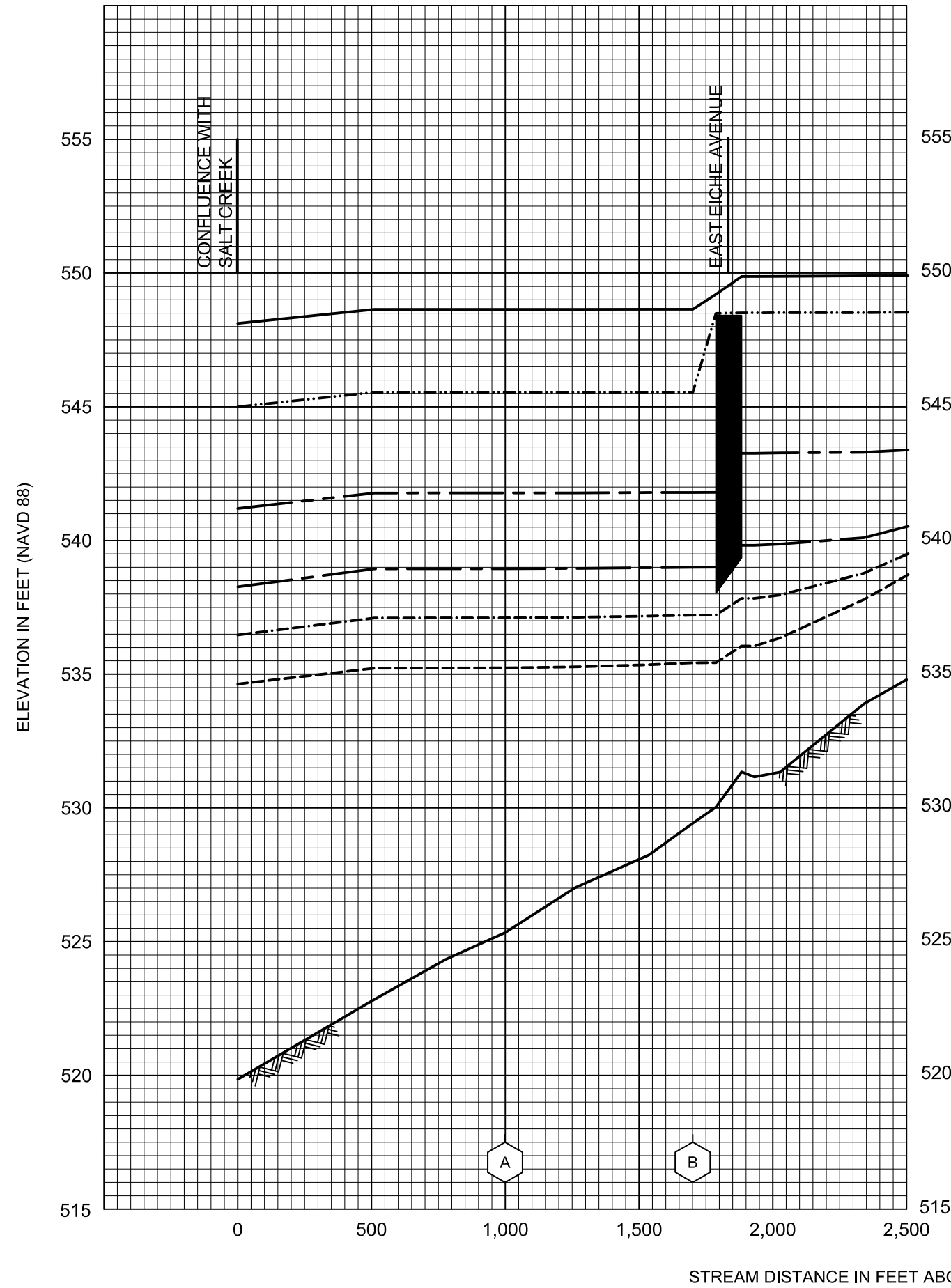


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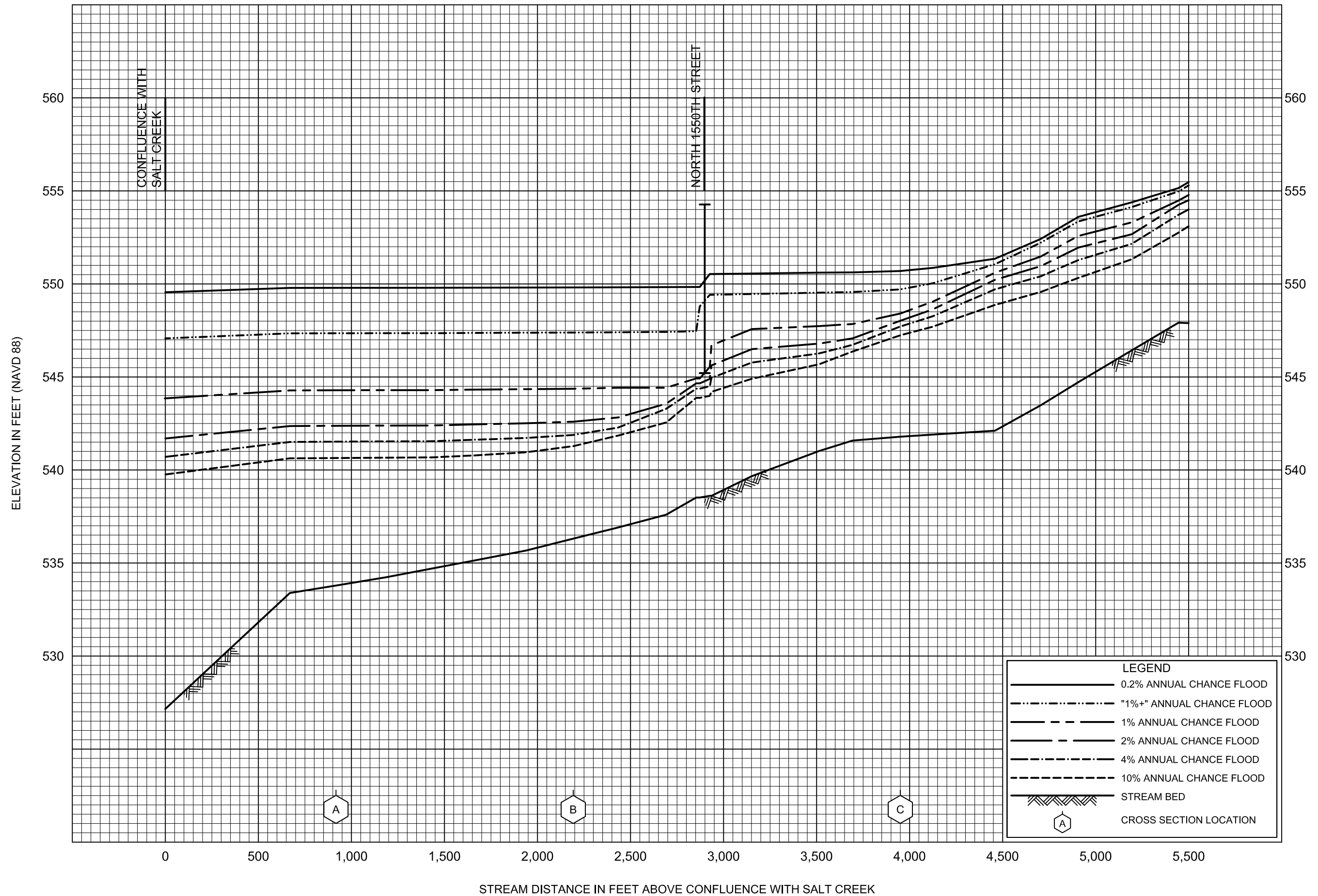
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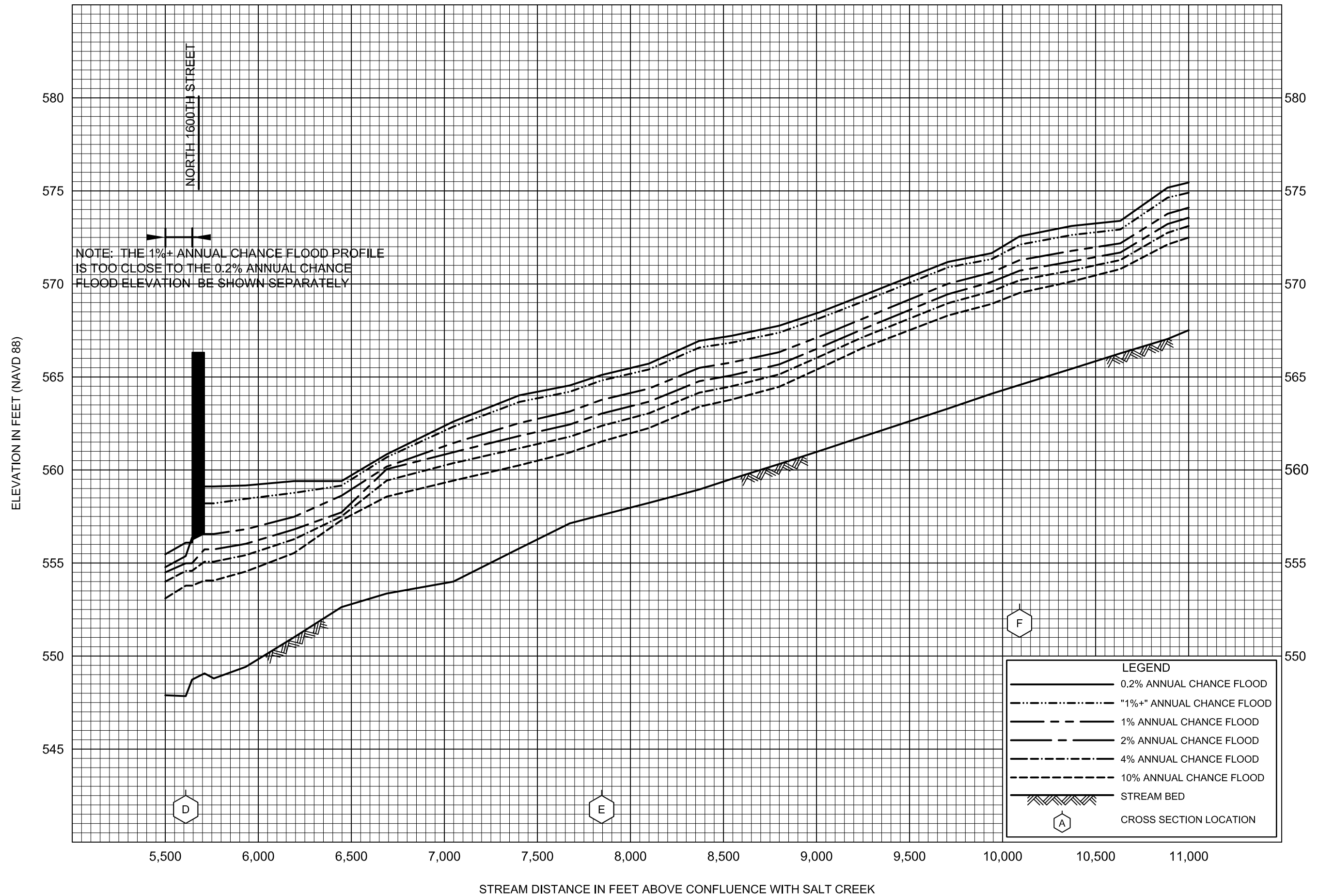
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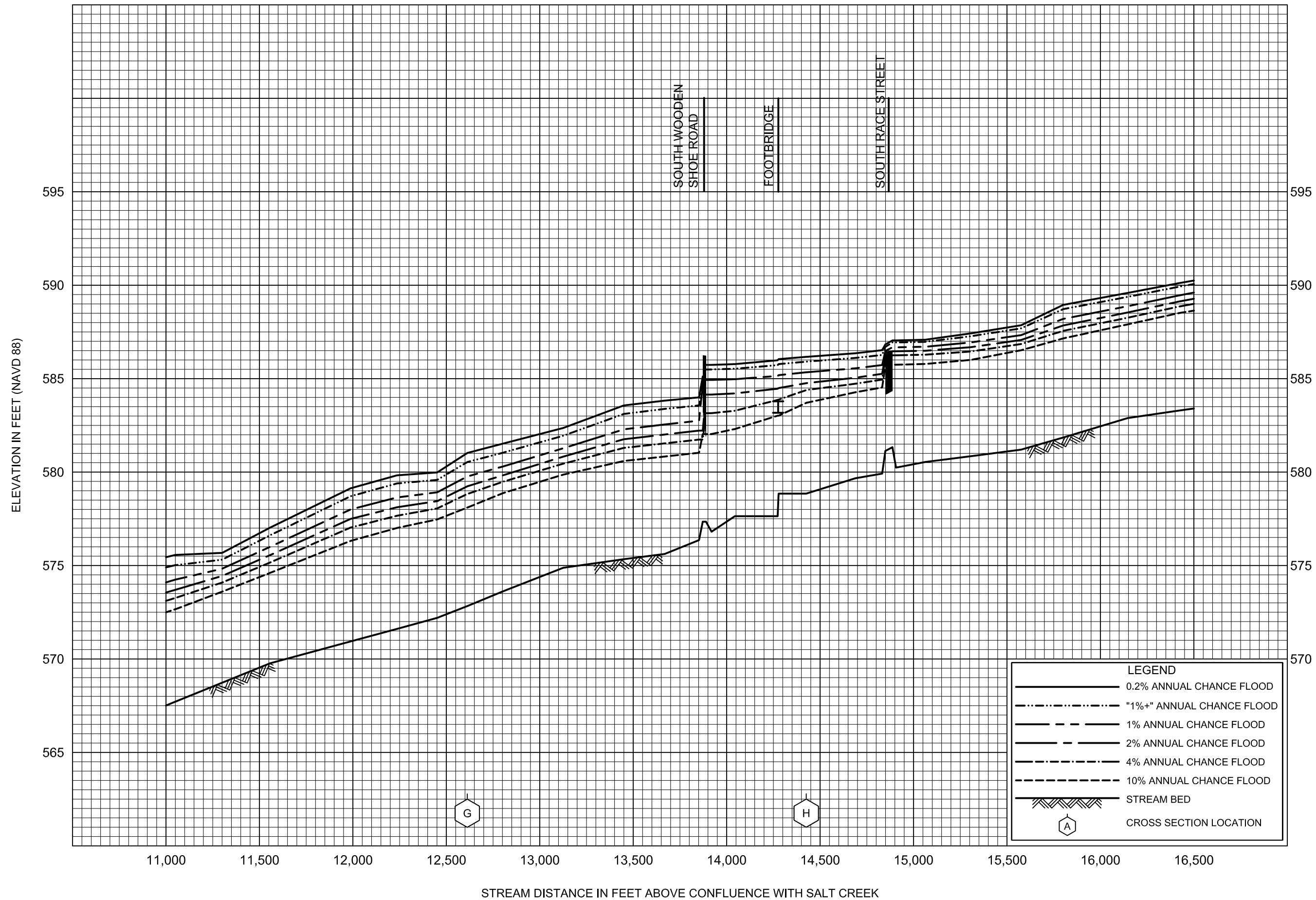
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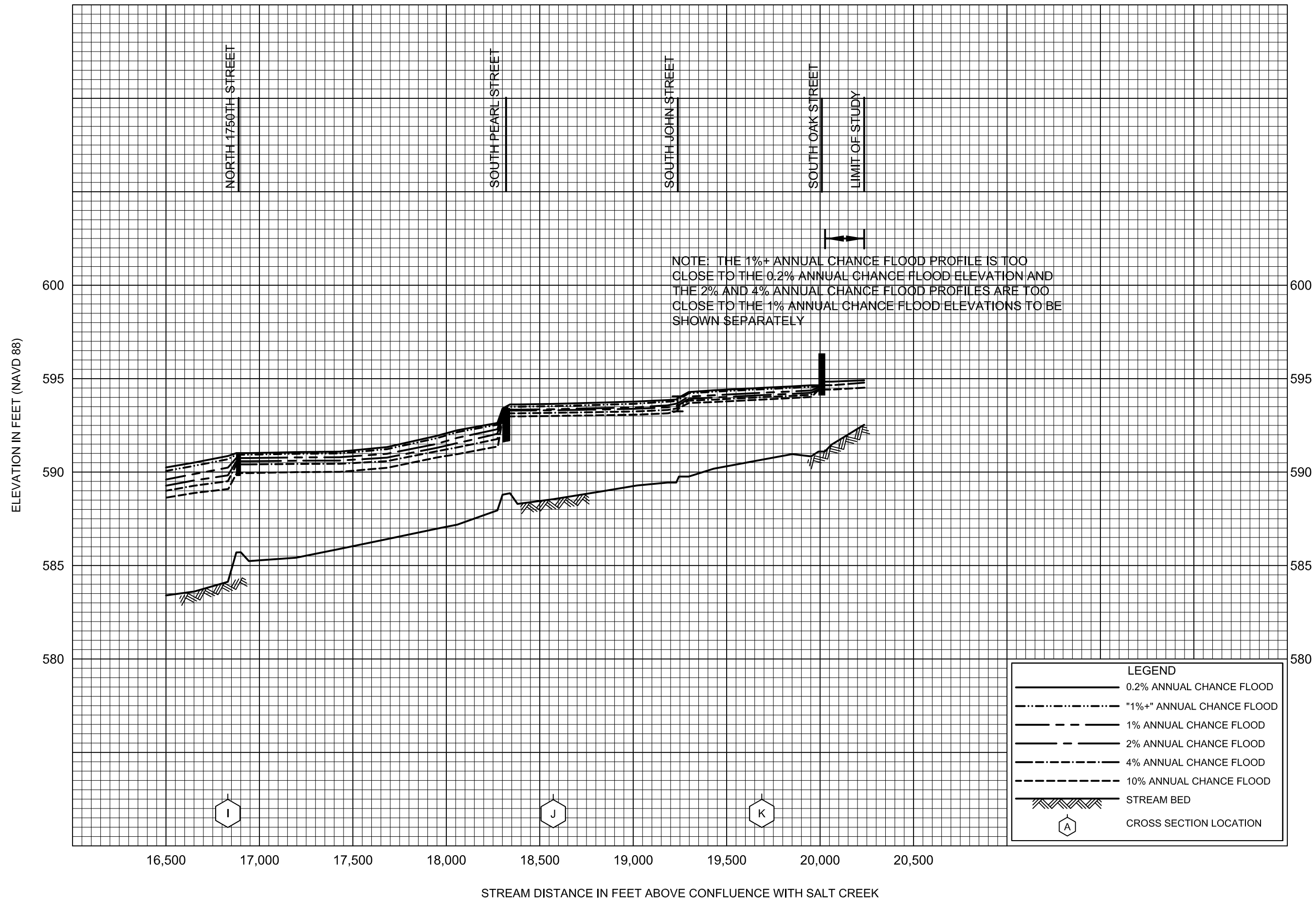
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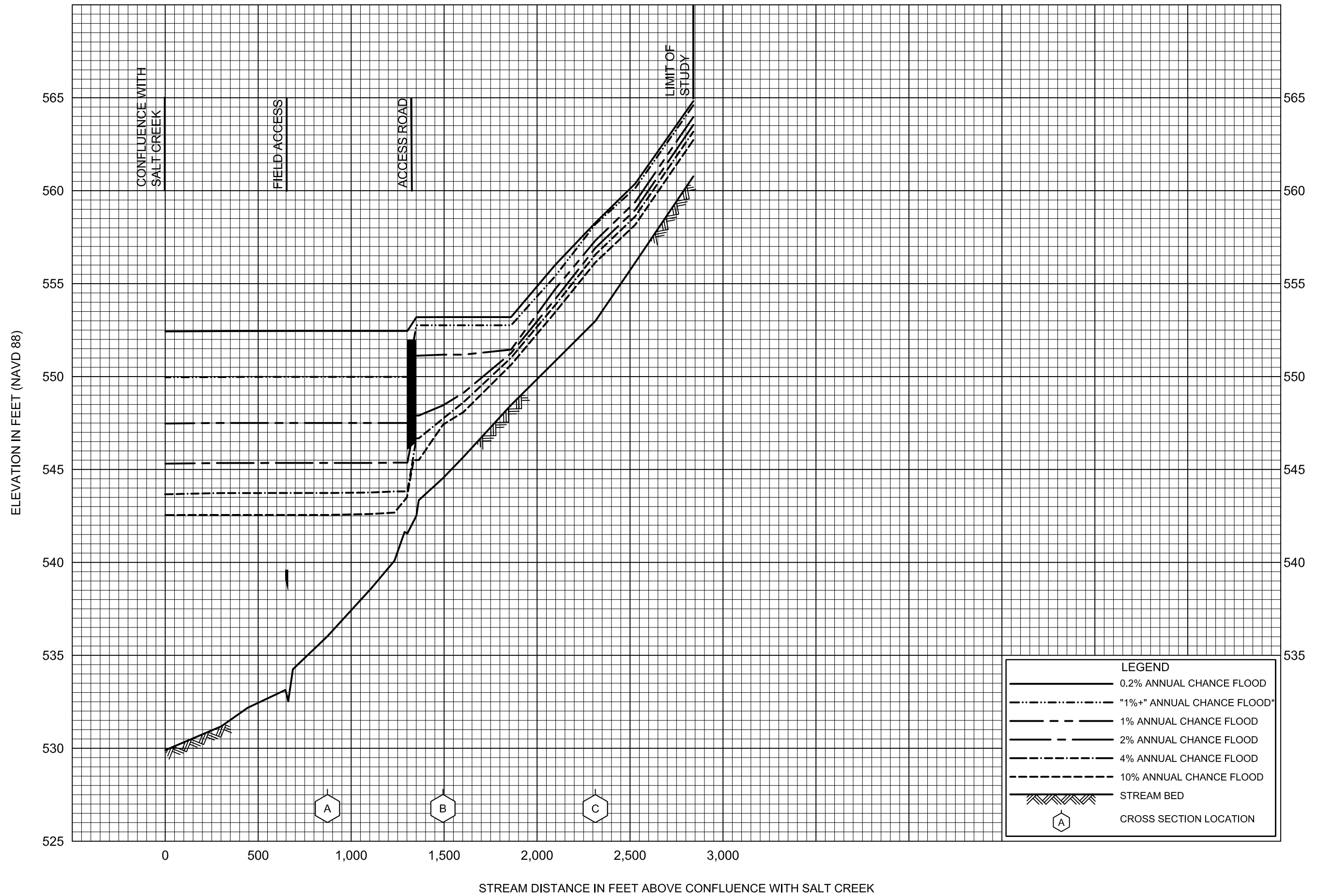
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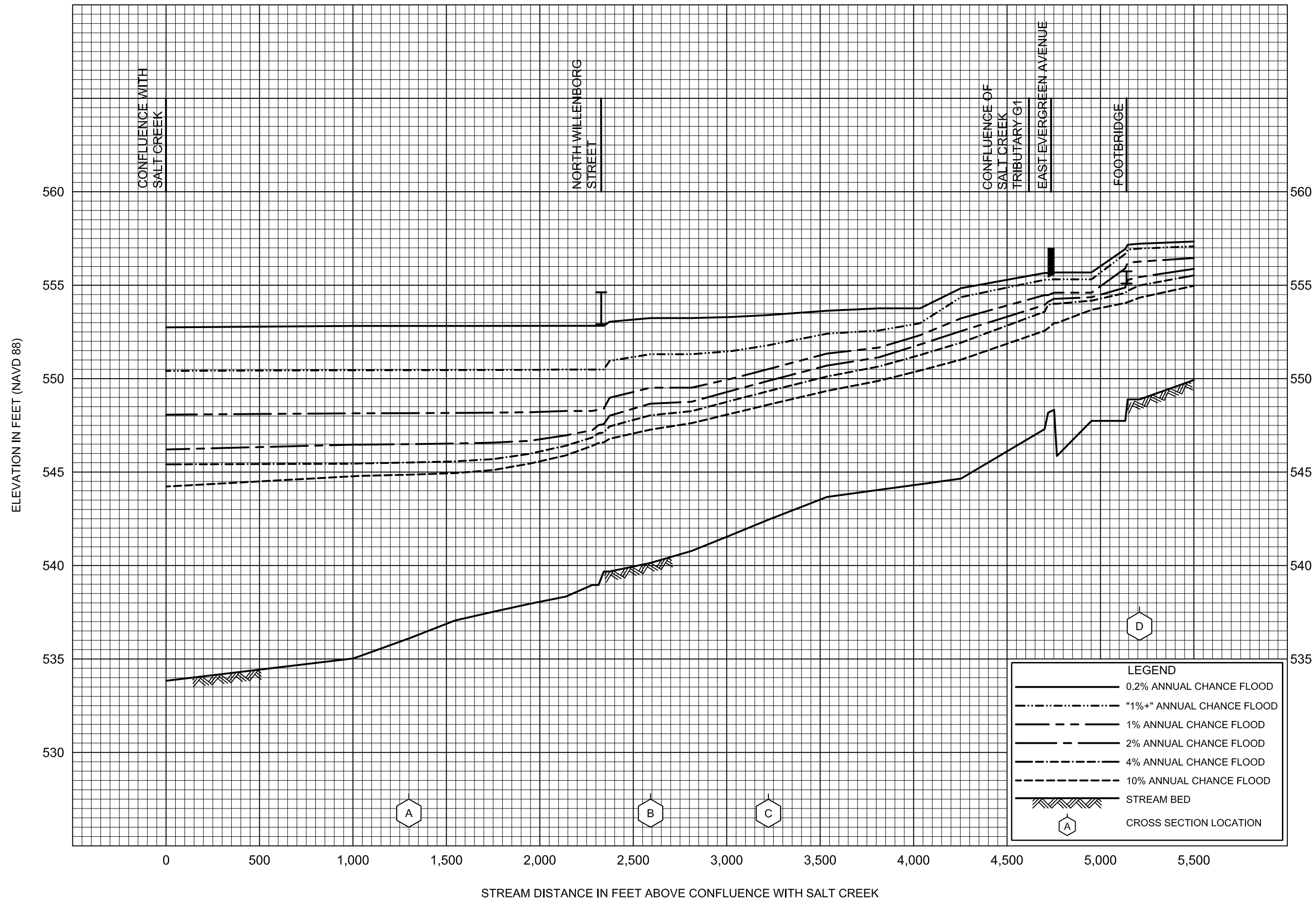
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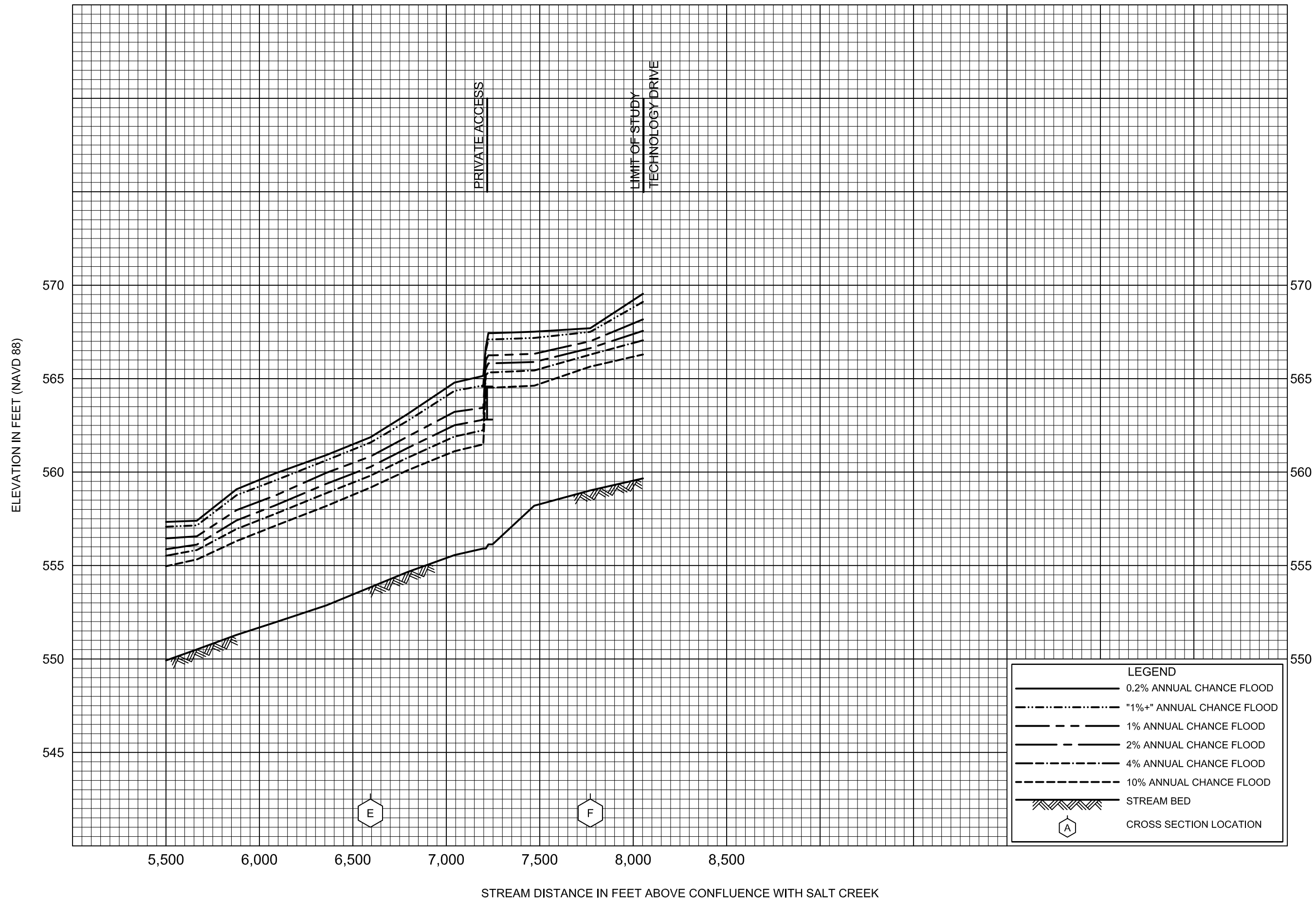
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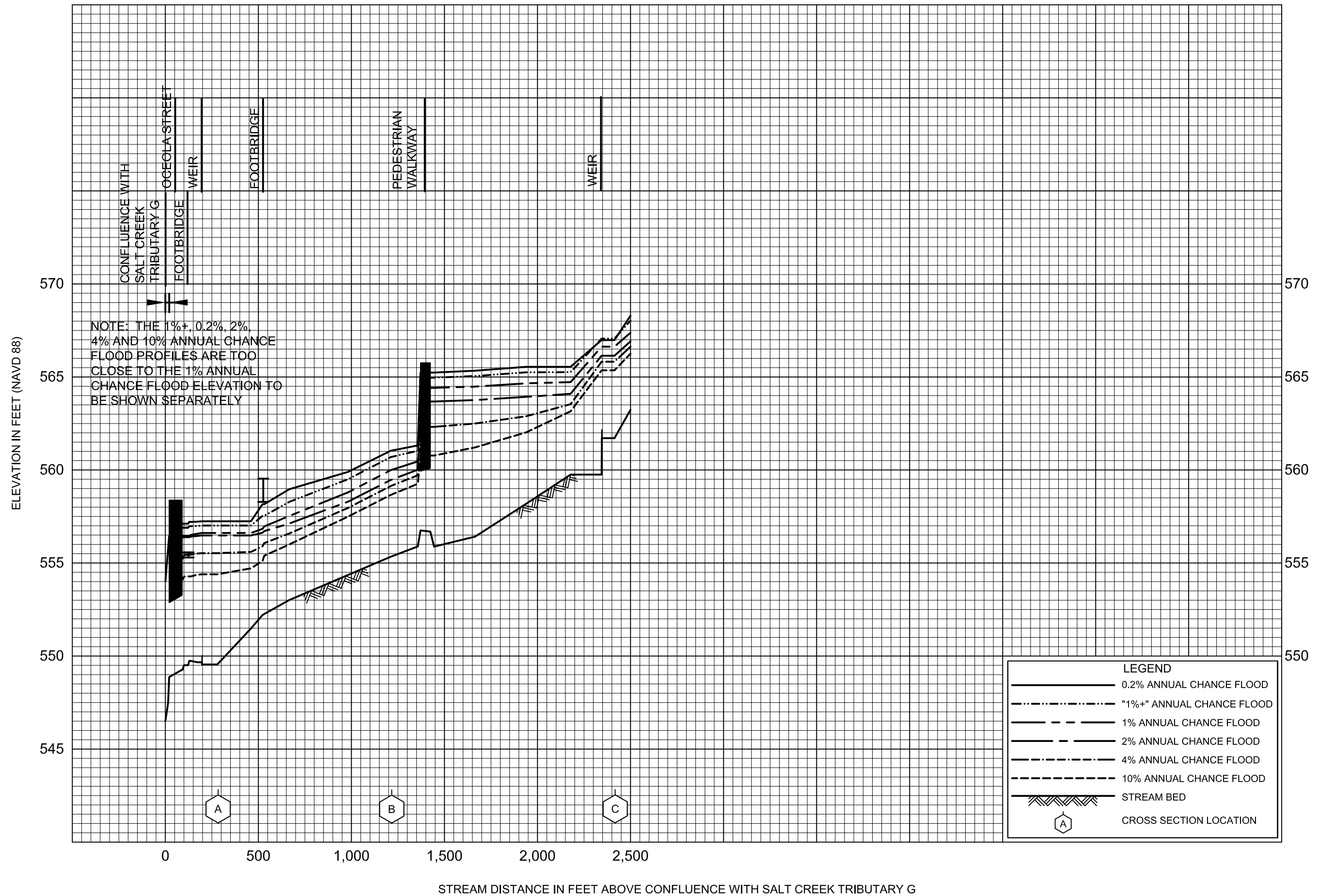


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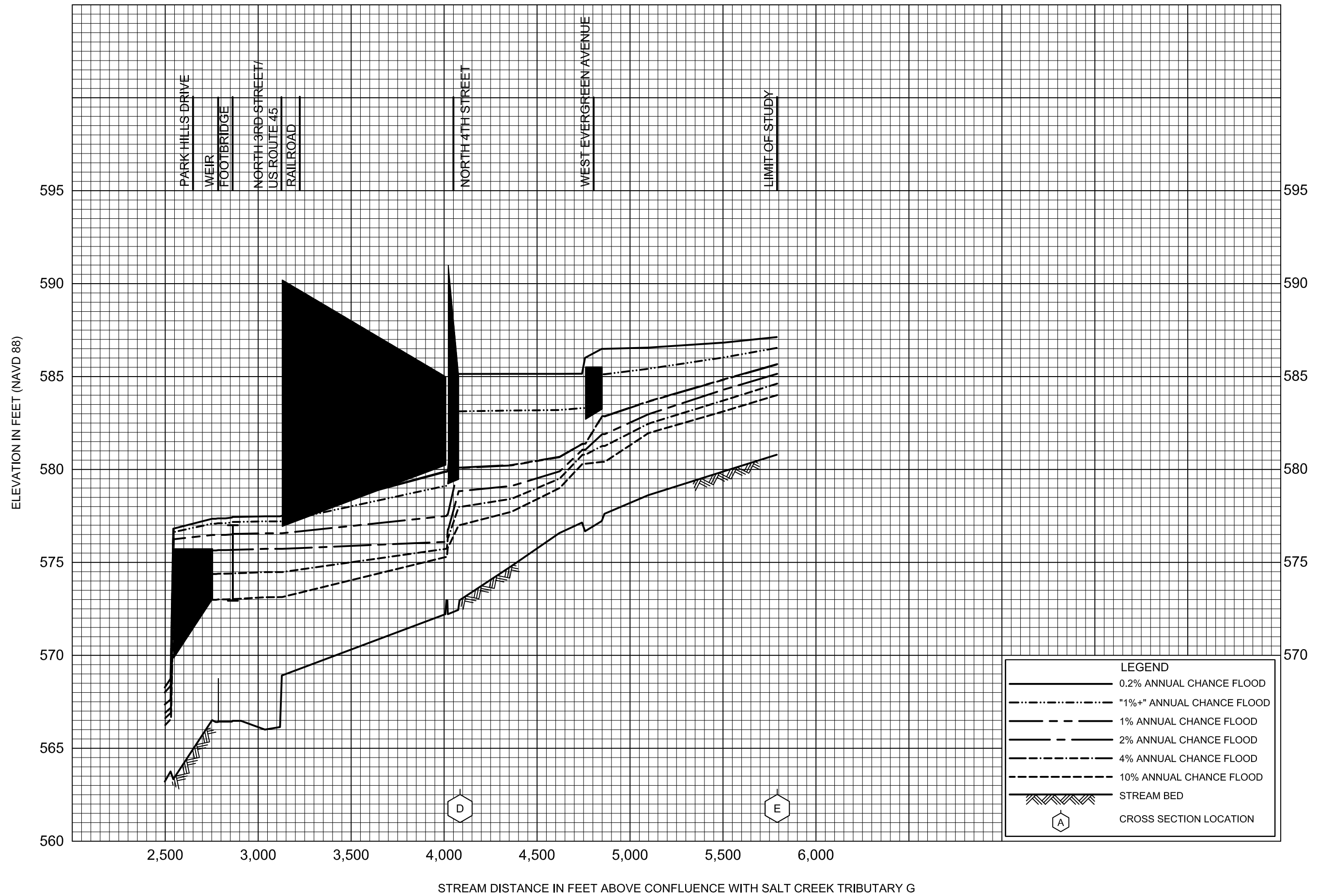
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