



# Federal Emergency Management Agency

Washington, D.C. 20472

## LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	City of Concord Cabarrus County North Carolina	CULVERT	1D HYDRAULIC ANALYSIS UPDATED TOPOGRAPHIC DATA
	COMMUNITY NO.: 370037		
IDENTIFIER	NC-24-900 – Country Club Drive Culvert Replacement – City of Concord, NC	APPROXIMATE LATITUDE & LONGITUDE: 35.444, -80.603 SOURCE: Other      DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM*      NO.: 3710562200K      DATE: November 16, 2018		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: November 16, 2018 FLOODWAY DATA TABLE: 22	

Enclosures reflect changes to flooding sources affected by this revision.

\* FIRM - Flood Insurance Rate Map

### FLOODING SOURCE AND REVISED REACH

Threemile Branch – From a point approximately 300 feet downstream of Country Club Drive to a point approximately 1,700 feet upstream of Country Club Drive.

### SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Threemile Branch	Zone AE	Zone AE	None	Yes
	BFEs*	BFEs	None	Yes
	Zone X (Shaded)	Zone X (Shaded)	Yes	Yes

\* BFEs – Base (1-percent-annual-chance) Flood Elevations

### DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Mapping and Insurance eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/flood-insurance>.

Patrick "Rick" F. Sacbbit, P.E.  
Chief, Engineering Services Branch  
Risk Management Directorate | Resilience



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**LETTER OF MAP REVISION  
DETERMINATION DOCUMENT (CONTINUED)**

**OTHER COMMUNITIES AFFECTED BY THIS REVISION**

**CID Number:** 370469

**Name:** City of Kannapolis, North Carolina

**AFFECTED MAP PANELS**

TYPE: FIRM      NO.: 3710562200K      DATE: November 16, 2018

**AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT**

DATE OF EFFECTIVE FLOOD INSURANCE STUDY: November 16, 2018  
FLOODWAY DATA TABLE: 22

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Mapping and Insurance eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <http://www.fema.gov/flood-insurance>.

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## LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

### COMMUNITY INFORMATION

#### APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

NFIP regulations Subparagraph 60.3(b)(7) requires communities to ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management ordinances; therefore, responsibility for maintenance of the altered or relocated watercourse, including any related appurtenances such as bridges, culverts, and other drainage structures, rests with your community. We may request that your community submit a description and schedule of maintenance activities necessary to ensure this requirement.

#### COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance flood discharges computed in the FIS for your community without considering subsequent changes in watershed characteristics that could increase flood discharges. Future development of projects upstream could cause increased flood discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on flood discharges subsequent to the publication of the FIS report for your community and could, therefore, establish greater flood hazards in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Mapping and Insurance eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/flood-insurance>.

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**LETTER OF MAP REVISION  
DETERMINATION DOCUMENT (CONTINUED)**

**COMMUNITY INFORMATION (CONTINUED)**

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Jacky Bell  
Director, Mitigation Division  
Federal Emergency Management Agency, Region IV  
Rhodes Building, 3005 Chamblee Tucker Road  
Atlanta, GA 30341  
(770)220-5406

**STATUS OF THE COMMUNITY NFIP MAPS**

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panels and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Mapping and Insurance eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/flood-insurance>.

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## LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

### PUBLIC NOTIFICATION OF REVISION

A notice of changes will be published in the *Federal Register*. This information also will be published in your local newspaper on or about the dates listed below, and through FEMA's Flood Hazard Mapping website at

[https://www.floodmaps.fema.gov/fhm/bfe\\_status/bfe\\_main.asp](https://www.floodmaps.fema.gov/fhm/bfe_status/bfe_main.asp)

#### LOCAL NEWSPAPER

Name: *The Independent Tribune*

Dates: December 17, 2024 And December 24, 2024

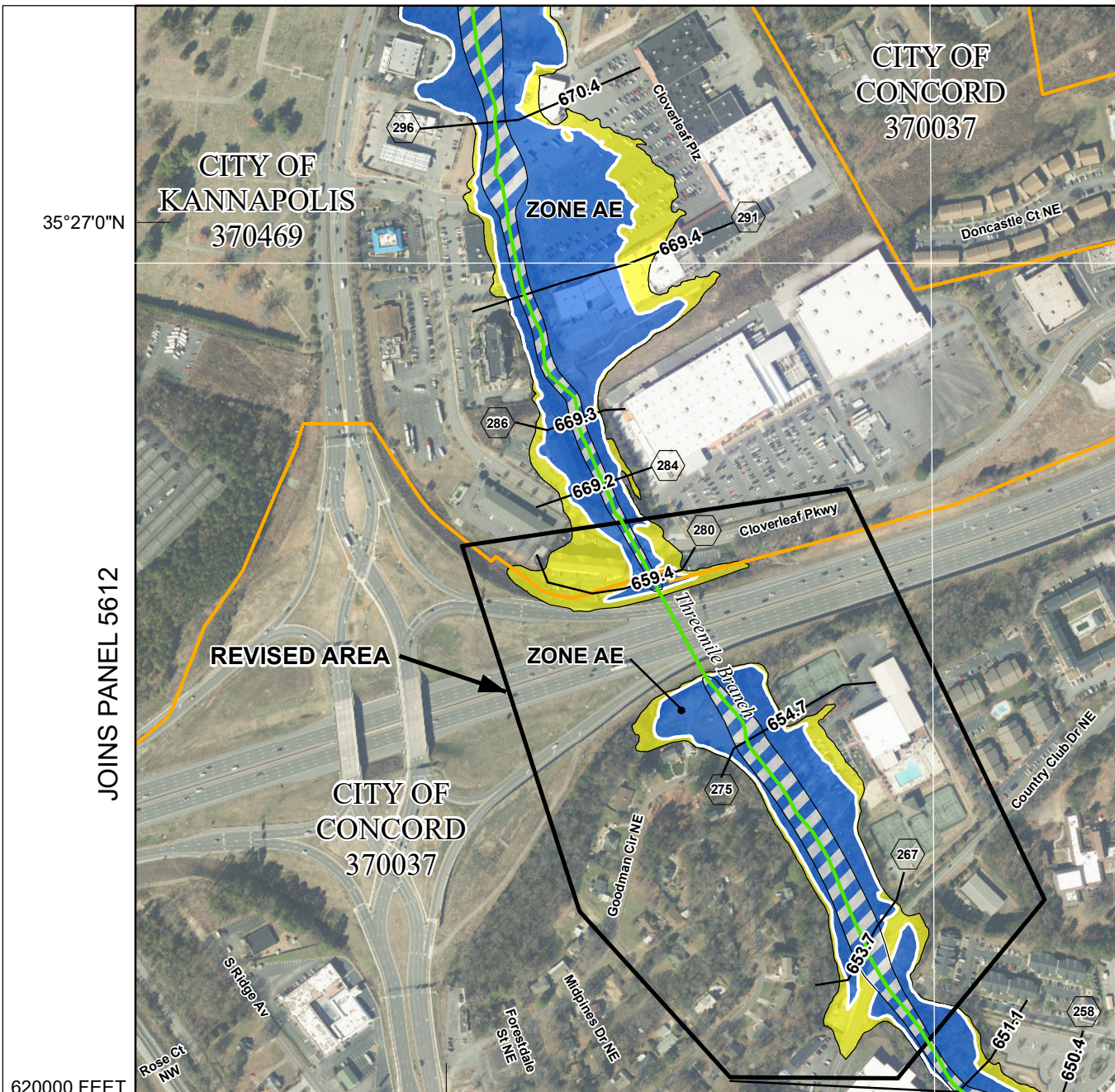
Within 90 days of the second publication in the local newspaper, any interested party may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. Therefore, this letter will be effective only after the 90-day appeal period has elapsed and we have resolved any appeals that we receive during this appeal period. Until this LOMR is effective, the revised flood hazard determination presented in this LOMR may be changed.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Mapping and Insurance eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/flood-insurance>.

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35°27'0"N

JOINS PANEL 5612

62000 FEET

152000 FEET

80°36'30"W

JOINS PANEL 5621

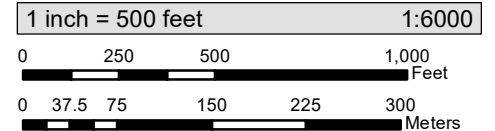
CITY OF KANNAPOLIS  
370469

CITY OF CONCORD  
370037

CITY OF CONCORD  
370037

**FLOOD HAZARD INFORMATION**

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		1% Future Conditions Zone X
OTHER AREAS		Area with Reduced Flood Risk due to Levee See Notes Zone X
		Areas Determined to be Outside the 0.2% Annual Chance Floodplain Zone X



National Flood Insurance Program

NORTH CAROLINA FLOODPLAIN MAPPING PROGRAM  
NATIONAL FLOOD INSURANCE PROGRAM  
FLOOD INSURANCE RATE MAP

**NORTH CAROLINA**



PANEL 5622

Panel Contains:

COMMUNITY	CID	PANEL	SUFFIX
CABARRUS COUNTY	370036	5622	K
CONCORD, CITY OF	370037	5622	K
KANNAPOLIS, CITY OF	370469	5622	K

**REVISED TO REFLECT LOMR  
EFFECTIVE: April 23, 2025**

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

VERSION NUMBER  
**2.3.3.2**

MAP NUMBER  
**3710562200K**

EFFECTIVE DATE  
**November 16, 2018**



REVISED TO REFLECT LOMR  
EFFECTIVE: April 23, 2025

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation			Increase
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	Without Floodway	With Floodway	
<b>Threemile Branch</b>								
109	10,870	48.0	470.0	6.5	584.6	584.6	585.5	0.9
113	11,294	83.0	663.0	4.6	589.0	589.0	589.0	0.0
121	12,053	275.0	1106.0	2.8	591.1	591.1	591.1	0.0
132	13,171	130.0	765.0	3.7	592.8	592.8	593.2	0.4
138	13,818	85.0	518.0	5.5	593.7	593.7	594.3	0.6
146	14,601	82.0	564.0	5.0	596.3	596.3	597.3	1.0
155	15,488	100.0	798.0	3.3	598.9	598.9	599.9	1.0
161	16,084	100.0	605.0	4.4	600.8	600.8	601.5	0.7
165	16,530	75.0	491.0	5.1	602.8	602.8	603.7	0.9
168	16,839	162.0	1670.0	1.5	613.4	613.4	613.4	0.0
176	17,576	180.0	1574.0	1.6	613.6	613.6	613.6	0.0
183	18,342	171.0	1437.0	1.5	613.9	613.9	614.9	1.0
193	19,310	138.0	919.0	2.3	614.8	614.8	615.7	0.9
204	20,425	91.0	403.0	5.3	617.9	617.9	618.7	0.8
212	21,231	54.0	388.0	5.5	619.9	619.9	620.8	0.9
219	21,921	47.0	309.0	6.9	622.6	622.6	623.4	0.8
221	22,080	43.0	325.0	6.3	624.0	624.0	624.5	0.5
224	22,385	89.0	556.0	3.7	627.3	627.3	627.3	0.0
226	22,635	49.0	302.0	6.8	627.7	627.7	627.9	0.2
230	22,968	36.0	179.0	11.6	630.9	630.9	630.9	0.0
232	23,202	66.0	311.0	6.6	634.6	634.6	634.6	0.0
239	23,904	42.0	354.0	5.8	638.4	638.4	638.5	0.1
243	24,278	39.0	261.0	7.9	639.7	639.7	639.7	0.0
247	24,686	42.0	302.0	6.6	641.9	641.9	642.0	0.1
252	25,161	43.0	374.0	5.3	645.0	645.0	645.5	0.5
255	25,546	39.0	442.0	4.5	649.8	649.8	650.7	0.9
258	25,842	39.0	416.0	4.8	650.4	650.4	651.2	0.8
262	26,158	38.0	378.0	5.2	651.1	651.1	651.8	0.7
267	26,695	140.0	881.0	2.3	653.7	653.7	654.3	0.6
275	27,451	100.0	621.0	3.0	654.7	654.7	655.5	0.8
280	28,046	33.0	406.0	4.6	659.4	659.4	660.3	0.9
284	28,386	40.0	749.0	2.5	669.2	669.2	669.7	0.5
286	28,606	45.0	805.0	2.3	669.3	669.3	669.8	0.5
291	29,051	43.0	670.0	2.7	669.4	669.4	669.9	0.5
296	29,611	57.0	527.0	3.4	670.4	670.4	671.3	0.9
304	30,434	41.0	415.0	4.1	670.8	670.8	671.7	0.9
310	30,980	70.0	565.0	3.0	673.4	673.4	674.1	0.7
312	31,225	75.0	747.0	2.3	675.4	675.4	675.9	0.5
320	32,044	140.0	880.0	2.0	675.9	675.9	676.8	0.9
325	32,462	115.0	562.0	3.1	676.9	676.9	677.9	1.0
328	32,763	100.0	503.0	3.4	679.8	679.8	680.7	0.9
332	33,161	115.0	639.0	2.7	682.8	682.8	683.6	0.8
335	33,486	110.0	612.0	2.8	684.1	684.1	685.0	0.9
341	34,071	105.0	875.0	1.9	690.3	690.3	690.8	0.5