



# 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 Charlotte Mecklenburg County North Carolina	BRIDGE GREENWAY STREAM ENHANCEMENT	FLOODWAY HYDRAULIC ANALYSIS UPDATED TOPOGRAPHIC DATA
	COMMUNITY NO.: 370159		
IDENTIFIER	MECK1230-LSC 7th to Pearl Park	APPROXIMATE LATITUDE AND LONGITUDE: 35.221, -80.830 SOURCE: Precision Mapping Streets      DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM*      NO.: 3710455300K      DATE: February 19, 2014 TYPE: FIRM*      NO.: 3710455400K      DATE: February 19, 2014		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: September 02, 2015 PROFILES: 131P and 132P FLOODWAY DATA TABLE: 22	

Enclosures reflect changes to flooding sources affected by this revision.

\* FIRM - Flood Insurance Rate Map

### FLOODING SOURCE AND REVISED REACH

Little Sugar Creek – From approximately 550 feet downstream of Pearl Parkway to approximately 1,190 feet downstream of East 18th Street.

### SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Little Sugar Creek	Zone AE	Zone AE	YES	YES
	Zone X (shaded)	Zone X (shaded)	YES	YES
	BFEs*	BFEs	YES	YES
	Floodway	Floodway	YES	YES

\* BFEs - Base 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 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 Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/national-flood-insurance-program>.

Patrick "Rick" Sacbbit, P.E. Branch Chief  
Engineering Services Branch  
Federal Insurance and Mitigation Administration



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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.

We provide the floodway designation to your community as a tool to regulate floodplain development. Therefore, the floodway revision we have described in this letter, while acceptable to us, must also be acceptable to your community and adopted by appropriate community action, as specified in Paragraph 60.3(d) of the NFIP regulations.

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.

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 Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/national-flood-insurance-program>.

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15-04-3179P

102-I-A-C



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## LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

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.

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:

Mr. Jesse Munoz  
Director, Mitigation Division  
Federal Emergency Management Agency, Region IV  
Koger Center - Rutgers Building, 3003 Chamblee Tucker Road  
Atlanta, GA 30341  
(770) 220-5400

### 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 Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/national-flood-insurance-program>.

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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 Mecklenburg Times*

Dates: August 26, 2016 and September 2, 2016

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 Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/national-flood-insurance-program>.

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Engineering Services Branch  
Federal Insurance and Mitigation Administration

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Little Sugar Creek (continued)								
694	69,404	170	1114	5.5	629.5	629.5	629.9	0.4
699	69,938	148	617	9.3	630.4	630.4	630.8	0.4
704	70,422	349	2264	2.5	634.5	634.5	634.9	0.4
712	71,242	232	1412	4.1	634.8	634.8	635.3	0.5
717	71,677	103	1015	5.0	635.1	635.1	635.5	0.4
723	72,286	102	762	6.7	635.6	635.6	636.0	0.4
730	72,997	96	961	5.3	636.8	636.8	637.0	0.2
734	73,409	73	774	6.6	637.7	637.7	638.0	0.3
741	74,098	69	649	7.8	638.7	638.7	638.9	0.2
744	74,368	108	1012	4.4	641.3	641.3	641.4	0.1
747	74,723	120	1117	4.0	643.2	643.2	643.2	0.0
751	75,053	99	716	6.4	643.4 <sup>2</sup>	643.2	643.3	0.1
758	75,761	87	852	5.3	645.3	645.3	645.3	0.0
760	75,966	77	656	6.5	645.4	645.4	645.4	0.0
766	76,656	76	694	6.1	647.8	647.8	647.9	0.1
769	76,880	78	728	5.8	648.4	648.4	648.4	0.0
772	77,185	89	876	4.8	650.7	650.7	650.7	0.0
774	77,374	90	896	4.7	650.8	650.8	650.9	0.1
788	78,765	139	1167	3.6	653.9	653.9	654.3	0.4
796	79,646	122	903	4.6	654.5	654.5	654.9	0.4
800	79,975	81	600	6.9	655.8	655.8	656.0	0.2

<sup>1</sup>Feet above county line

<sup>2</sup> Elevation determined without consideration of drawdown effects

REVISED DATA

REVISED TO REFLECT LOMR EFFECTIVE: January 2, 2017

TABLE 22

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**MECKLENBURG COUNTY, NC  
AND INCORPORATED AREAS**

FLOODWAY DATA

LITTLE SUGAR CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Little Sugar Creek (continued)		REVISED DATA						
804	80,402	76	575	6.2	656.6	656.6	656.8	0.2
807	80,746	49	498	7.2	657.8	657.8	657.9	0.1
812	81,231	79	511	7.0	659.1	659.1	659.1	0.0
816	81,600	77	653	5.5	661.4	661.4	661.4	0.0
820	81,953	197	1163	3.1	662.0	662.0	662.2	0.2
824	82,429	68	502	7.1	662.3	662.3	662.7	0.4
827	82,722	74	618	5.8	664.1	664.1	664.5	0.4
831	83,055	124	1196	3.0	667.7	667.7	668.2	0.5
834	83,398	56	561	6.3	667.7	667.7	668.1	0.5
838	83,805	161	1304	2.7	669.6	669.6	670.1	0.5
841	84,086	128	1121	3.2	669.8	669.8	670.3	0.5
845	84,480	194	1385	2.6	670.1	670.1	670.6	0.5
852	85,176	92	628	5.7	671.9	671.9	672.1	0.2
859	85,936	62	450	7.9	672.8	672.8	673.1	0.3
866	86,555	200	1150	3.1	674.8	674.8	675.0	0.2
871	87,147	60	342	10.4	674.8	674.8	675.3	0.5
876	87,555	112	1023	3.5	679.8	679.8	680.1	0.3
883	88,263	84	780	4.4	680.5	680.5	680.7	0.2
886	88,550	126	2125	1.6	689.3	689.3	689.3	0.0
889	88,882	210	3100	1.1	689.3	689.3	689.4	0.1
896	89,555	236	3410	1.0	691.7	691.7	691.7	0.0

<sup>1</sup>Feet above county line

REVISED TO  
REFLECT LOMR  
EFFECTIVE: January 2, 2017

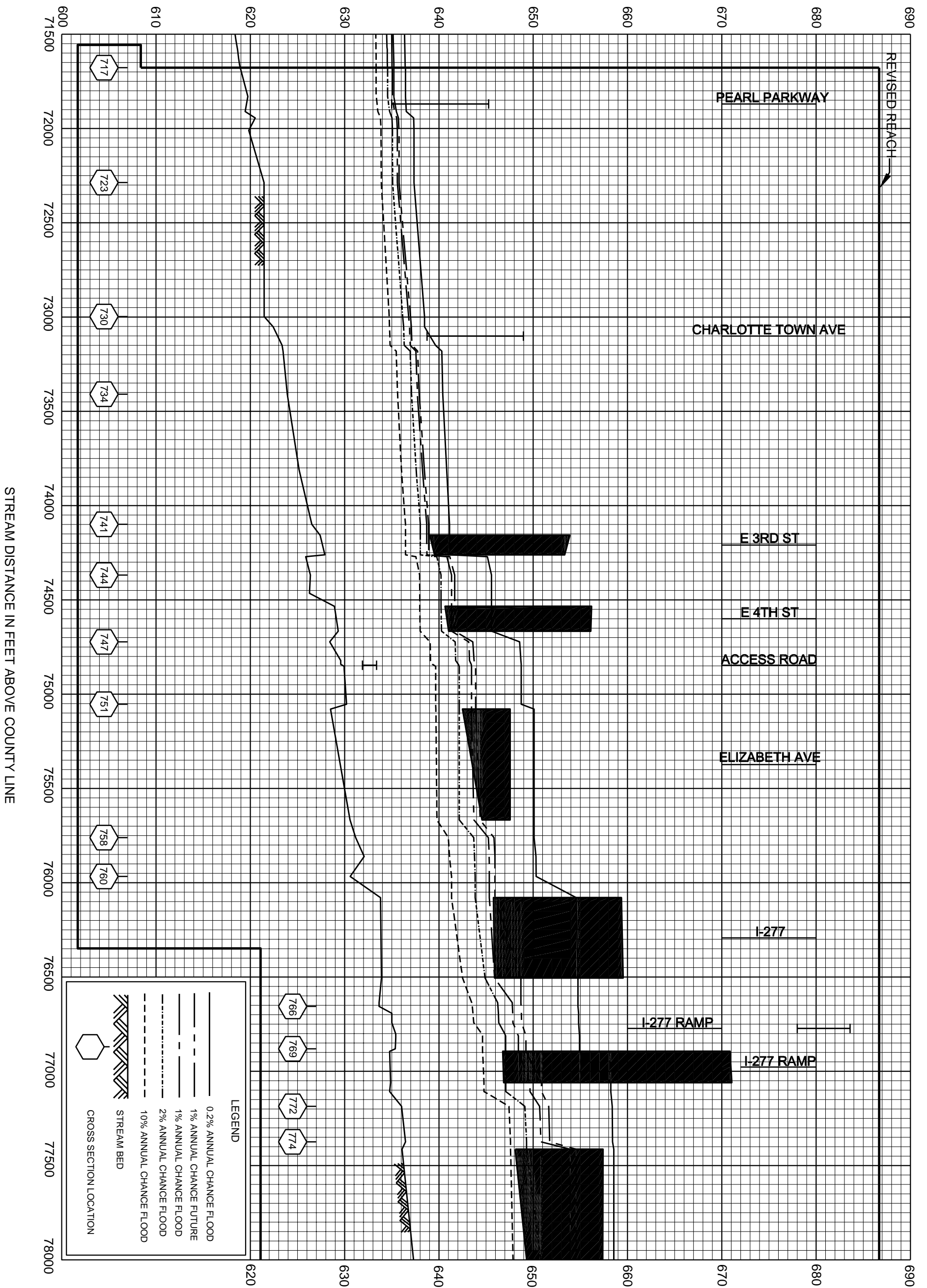
TABLE 22

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**MECKLENBURG COUNTY, NC  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**LITTLE SUGAR CREEK**

ELEVATION IN FEET (NAVD 88)



REVISED TO REFLECT LOMR EFFECTIVE: January 2, 2017

FEDERAL EMERGENCY MANAGEMENT AGENCY

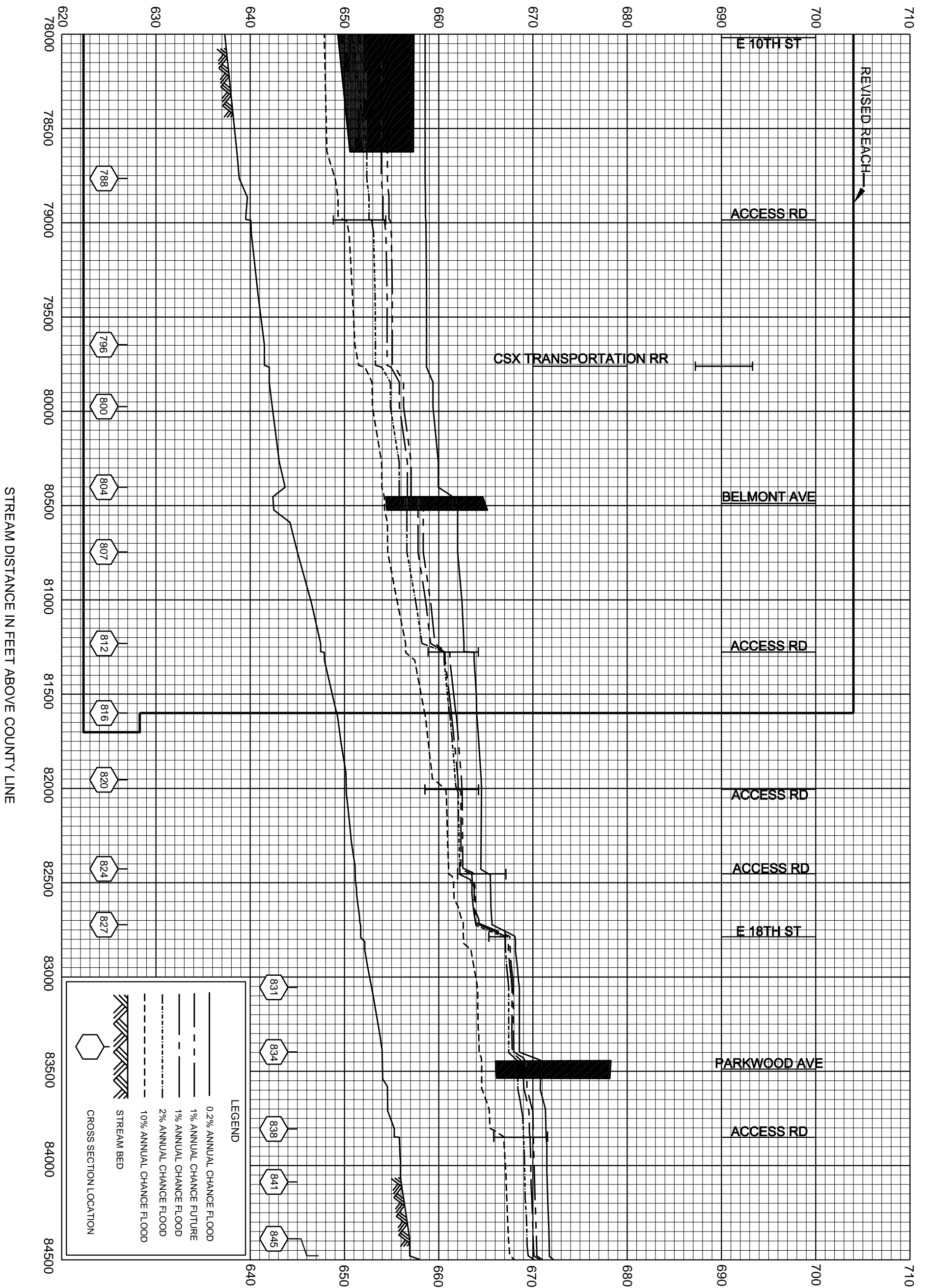
MECKLENBURG COUNTY, NC AND INCORPORATED AREAS

FLOOD PROFILES

LITTLE SUGAR CREEK

131P

ELEVATION IN FEET (NAVD 88)



**LEGEND**

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

REVISED TO REFLECT LOMR EFFECTIVE: January 2, 2017

FEDERAL EMERGENCY MANAGEMENT AGENCY

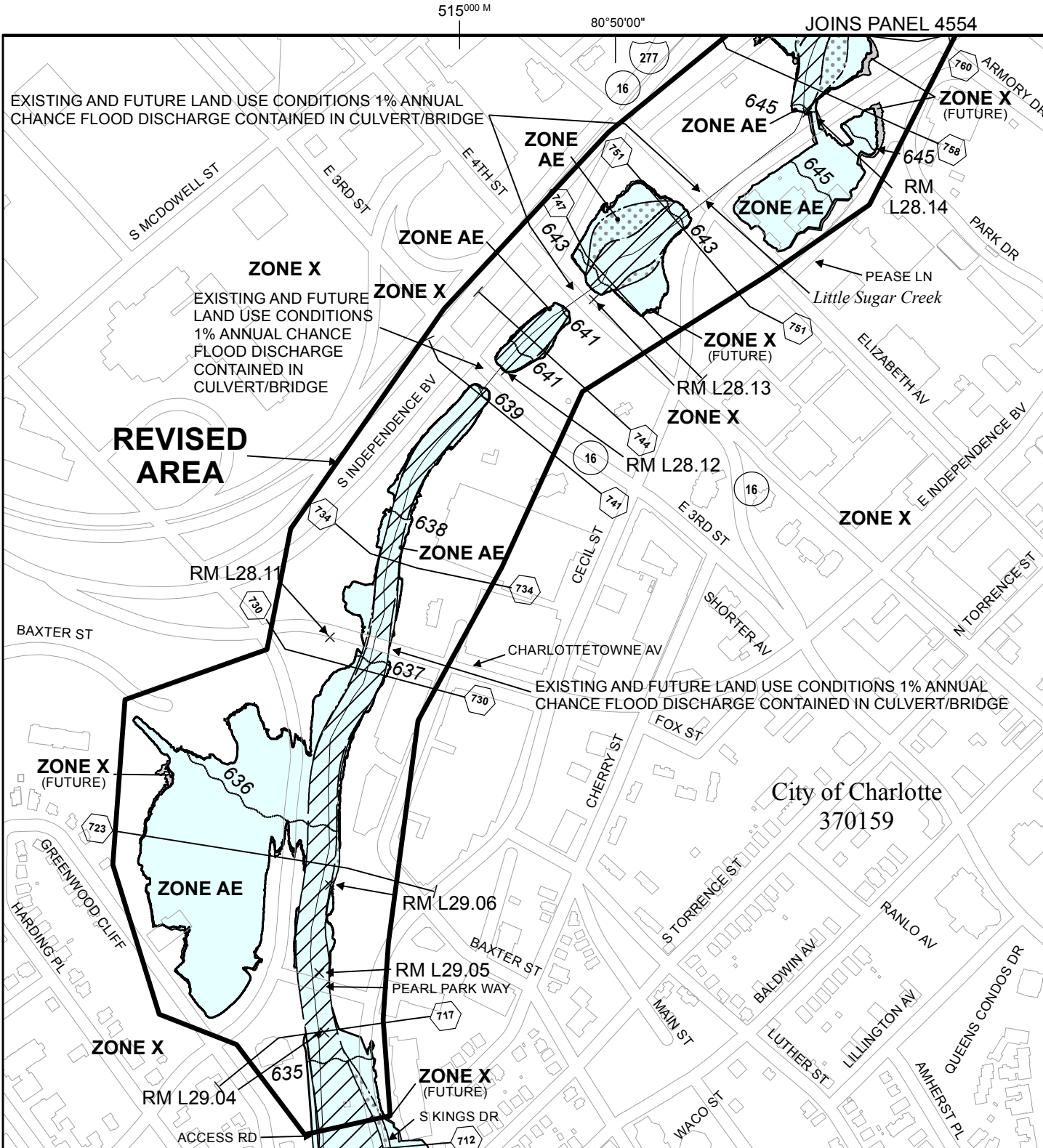
MECKLENBURG COUNTY, NC AND INCORPORATED AREAS

FLOOD PROFILES





LITTLE SUGAR CREEK

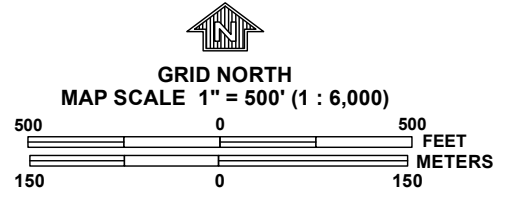
132P





### Legend

-  1% annual chance (100-Year) Floodplain
-  1% annual chance (100-Year) Floodway
-  Community Encroachment Area
-  1% annual chance Future Conditions (100-Year) Floodplain



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 4553K

## FIRM

FLOOD INSURANCE RATE MAP  
NORTH CAROLINA

**PANEL 4553**  
(SEE LOCATOR DIAGRAM OR MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	CID No.	PANEL	SUFFIX
CHARLOTTE, CITY OF	370159	4553	K
MECKLENBURG COUNTY	370158	4553	K

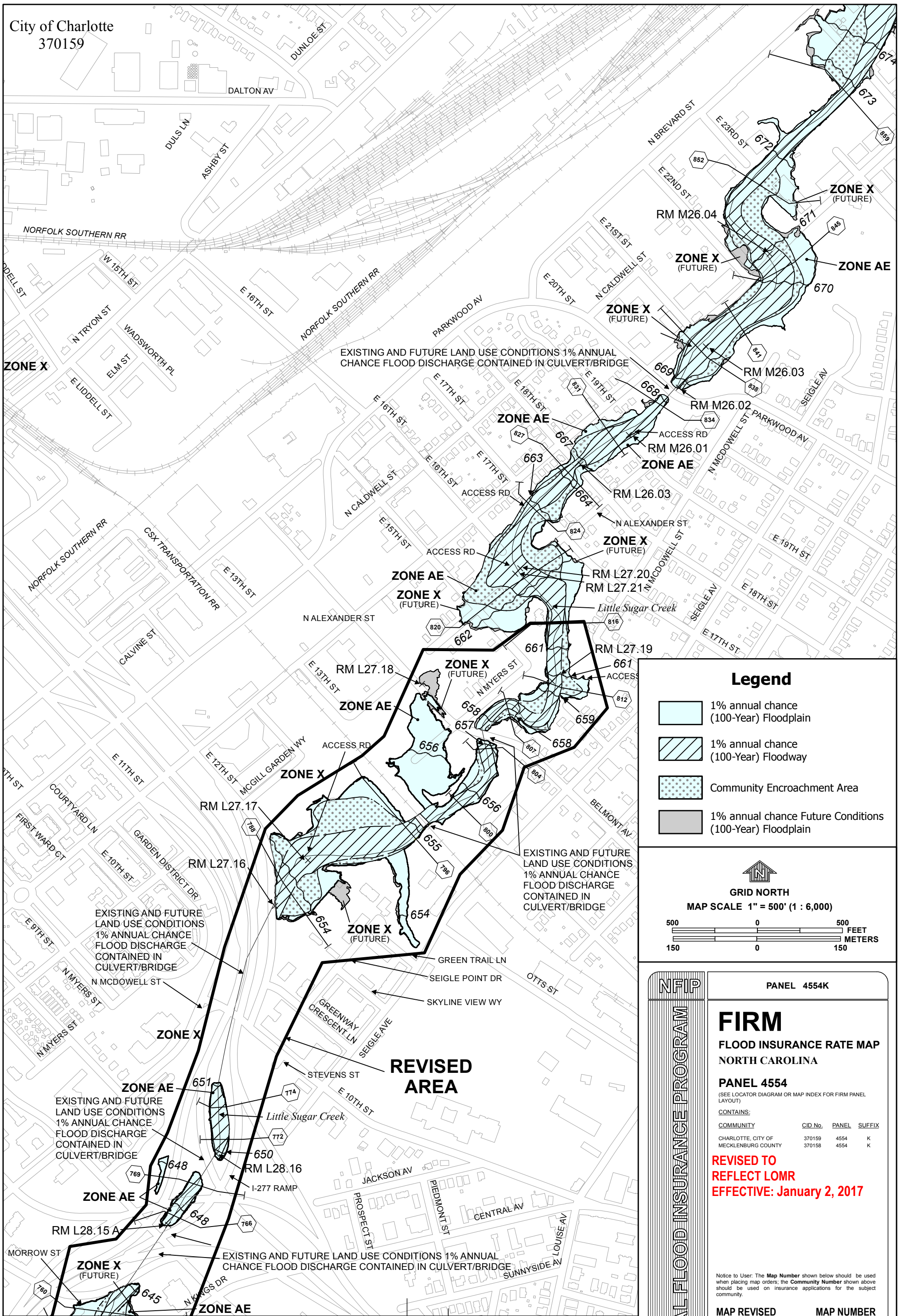
**REVISED TO REFLECT LOMR EFFECTIVE: January 2, 2017**

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.


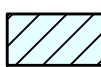


MAP REVISED FEBRUARY 19, 2014  
MAP NUMBER 3710455300K



State of North Carolina  
Federal Emergency Management Agency



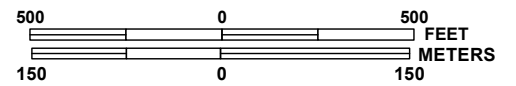
**Legend**

-  1% annual chance (100-Year) Floodplain
-  1% annual chance (100-Year) Floodway
-  Community Encroachment Area
-  1% annual chance Future Conditions (100-Year) Floodplain



GRID NORTH

MAP SCALE 1" = 500' (1 : 6,000)



**REVISED AREA**

PANEL 4554K

## FIRM

**FLOOD INSURANCE RATE MAP  
NORTH CAROLINA**

**PANEL 4554**  
(SEE LOCATOR DIAGRAM OR MAP INDEX FOR FIRM PANEL LAYOUT)


**CONTAINS:**

COMMUNITY	CID No.	PANEL	SUFFIX
CHARLOTTE, CITY OF	370159	4554	K
MECKLENBURG COUNTY	370158	4554	K


**REVISED TO  
REFLECT LOMR  
EFFECTIVE: January 2, 2017**

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**MAP REVISED**  
FEBRUARY 19, 2014



**MAP NUMBER**  
3710455400K



State of North Carolina  
Federal Emergency Management Agency

NATIONAL FLOOD INSURANCE PROGRAM