Page 1 of 4 | Issue Date: February 13, 2018 | Effective Date: June 30, 2018 | Case No.: 17-04-6164P | LOMR-APP



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	STREAM RESTORATION	FLOODWAY HYDRAULIC ANALYSIS UPDATED TOPOGRAPHIC DATA		
	COMMUNITY NO.: 370159				
IDENTIFIER	NC-17-582 - McAlpine Creek Stream Restoration Capital Improvement Project	APPROXIMATE LATITUDE & LONGITUDE: 35.132, 80.774 SOURCE: Other DATUM: NAD 83			
	ANNOTATED MAPPING ENCLOSURES	ANNOTATED STUDY ENCLOSURES			
TYPE: FIRM* TYPE: FIRM*	NO.: 3710456000K DATE: February 19, 2014 NO.: 3710457000K DATE: February 19, 2014	DATE OF EFFECTIVE FLOOD INSURA PROFILE(S): 156P and 157P FLOODWAY DATA TABLE: 22	NCE STUDY: September 02, 2015		

Enclosures reflect changes to flooding sources affected by this revision.

FLOODING SOURCE AND REVISED REACH

McAlpine Creek - From the upstream side of Providence Road to the downstream side of Monroe Road

SUMMARY OF REVISIONS									
Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases					
McAlpine Creek	Zone AE	Zone AE	YES	YES					
	Floodway	Floodway	YES	NONE					
	BFEs*	BFEs*	YES	YES					
	Zone X (shaded)	Zone X (shaded)	YES	YES					
* BEEs - Base Flood Flevations									

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 Map Information 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/national-flood-insurance-program.

^{*} FIRM - Flood Insurance Rate Map

Page 2 of 4 | Issue Date: February 13, 2018 | Effective Date: June 30, 2018 | Case No.: 17-04-6164P | LOMR-APP



Federal Emergency Management Agency

Washington, D.C. 20472

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.

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 Map Information 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/national-flood-insurance-program.

Page 3 of 4 Issue Date: February 13, 2018 | Effective Date: June 30, 2018 | Case No.: 17-04-6164P | LOMR-APP



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (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:

Mr. Jesse Munoz Director, Mitigation Division Federal Emergency Management Agency, Region IV Koger Center - Rutgers Building, 3003 Chamblee Tucker Road Atlanta, GA 30341 (770)-220-5406

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 panel(s) 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, 3601 Eisenhower Avenue Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at https://www.fema.gov/national-flood-insurance-program.

Page 4 of 4 Issue Date: February 13, 2018 Effective Date: June 30, 2018 Case No.: 17-04-6164P LOMR-APP



Federal Emergency Management Agency

Washington, D.C. 20472

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

LOCAL NEWSPAPER Name: The South Charlotte Weekly

Dates: February 23, 2018 and March 2, 2018

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, 3601 Eisenhower Avenue Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at https://www.fema.gov/national-flood-insurance-program.

FLOODING SOURCE		FLOODWAY		BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD 88)				
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
McAlpine Creek (continued)								
705 718 732 744 762 780 792 805 817 829 843 853 865 878 886 902 913 925 937 949 963 975	70,500 71,760 73,200 74,400 76,200 78,000 79,175 80,500 81,700 82,900 84,300 85,300 86,500 87,828 88,600 90,150 91,300 92,460 93,700 94,900 96,300 97,500	260 400 995 405 670 1,260 1,325 800 625 435 290 762 580 395 150 220 55 50 310 250 160 65	3,549 4,212 11,867 4,522 8,189 13,072 11,795 6,140 5,093 3,360 4,187 6,337 4,606 2,193 855 1,516 423 359 1,233 937 783 385	2.9 2.5 0.9 2.3 1.3 0.8 0.9 1.7 2.1 3.1 2.5 0.8 1.1 2.4 6.0 3.4 6.7 7.9 2.3 3.0 3.6 7.3	569.6 570.1 570.6 570.8 574.0 574.2 574.4 574.8 576.1 577.2 581.0 582.4 582.5 582.7 583.3 588.6 594.2 598.4 601.9 604.9 609.1 614.8	569.6 570.1 570.6 570.8 574.0 574.2 574.4 574.8 576.1 577.2 581.0 582.4 582.5 582.7 583.3 588.6 594.2 598.4 601.9 604.9 604.9 609.1 614.8	570.0 570.6 571.1 571.3 574.4 574.7 574.9 575.3 576.6 577.7 581.3 582.8 582.9 583.2 583.6 588.7 594.4 598.9 602.4 605.3 609.5 615.3	0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.3 0.4 0.4 0.5 0.3 0.1 0.2 0.5 0.5 0.5

¹Feet above mouth

TABLE

22

REVISED TO REFLECT LOMR EFFECTIVE: JUNE 30, 2018

REVISED DATA

FEDERAL EMERGENCY MANAGEMENT AGENCY

MECKLENBURG COUNTY, NC AND INCORPORATED AREAS

FLOODWAY DATA

MCALPINE CREEK







