ORTH CAROLINA

This digital Flood Insurance Rate Map (FIRM) was produced through a unique cooperative partnership between Charlotte-Mecklenburg, the State of North Carolina, the Federal Emergency Management Agency (FEMA), and the U.S. Army Corps of Engineers. Charlotte-Mecklenburg Storm Water Services (CMSWS) has developed a long term approach of floodplain management to decrease the costs associated with flooding. This is demonstrated by CMSWS commitment to map floodplain areas at the local level. As a part of this effort, CMSWS has joined in a Cooperating Technical Community agreement with FEMA and a partnership with the NCFMP to produce and maintain this digital FIRM.

www.ncfloodmaps.com http://stormwater.charmeck.org This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles, Floodway Data, Limited Detailed Flood Hazard Data, and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Boundaries of regulatory floodways shown on the FIRM for flooding sources studied by detailed methods 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 for flooding sources studied by detailed methods as well as non-encroachment widths for flooding sources studied by limited detailed methods are provided in the Flood Insurance Study (FIS) report for this jurisdiction. The FIS report also provides instructions for determining a floodway using non-encroachment widths for

flooding sources studied by limited detailed methods.

Refer to Section 4.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures in this jurisdiction. Base map information and geospatial data used to develop this FIRM were obtained from various

organizations, including the participating local community(ies), state and federal agencies, and/or other sources. The primary base for this FIRM is planimetric base map information obtained from Mecklenburg County Storm Water Services and the Mecklenburg County GIS Department. The time period of collection for the planimetric base map information ranges from 2004 for building footprints through 2007 for the street centerline and Jurisdictional Boundary. Building footprints were digitized from 2004 aerial photography at a scale of 1:1,200 within North Carolina accuracy standards. Building footprints were produced by Avio Image of Charlotte, North Carolina. Information and geospatial data supplied by the local community(ies) that met FEMA base map specifications were considered the preferred source for development of the base map. See geospatial metadata for the

associated digital FIRM for additional information about base map preparation. Base map features shown on this map, such as corporate limits, are based on the most up-to-date data available at the time of publication. Changes in the corporate limits may have occurred since this map was published. Map users should consult the appropriate community official or website to verify current conditions of jurisdictional boundaries and base map features. This map

hydraulic model was created during the production of this statewide format FIRM.

may contain roads that were not considered in the hydraulic analysis of streams where no new

This map reflects more detailed and up-to-date stream channel configurations than those shown

on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels, community map repository addresses, and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

If you have questions about this map, or questions concerning the National Flood Insurance Program in general, please call 1 - 877 - FEMA MAP (1-877-336-2627) or visit the FEMA website at http://www.fema.gov.

An accompanying Flood Insurance Study report, Letter of Map Revision (LOMR) or Letter of Map Amendment (LOMA) revising portions of this panel, and digital versions of this FIRM may be available. Visit the North Carolina Floodplain Mapping Program website at http://www.ncfloodmaps.com, or contact the FEMA Map Service Center at 1-800-358-9616 for information on all related products associated with this FIRM. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at http://www.msc.fema.gov.

Refer to listing of Map Repositories on Map Index or visit http://www.ncfloodmaps.com. EFFECTIVE DATE OF FLOOD INSURANCE RATE MAP PANEL

MARCH 2, 2009

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to statewide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction. To determine if flood insurance is available in this community, contact your insurance agent, the North Carolina Division of Emergency Management or the National Flood Insurance Program at the following phone numbers or

http://www.nccrimecontrol.org/nfip

NC Division of Emergency Management

Charlotte-Mecklenburg Storm Water Services National Flood Insurance Program http://stormwater.charmeck.org http://www.fema.gov/business/nfip/ **LEGEND**

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that

Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood. ZONE A No Base Flood Elevation determined.

ZONE AE Base Flood Elevations determined. ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average

ZONE AR Special Flood Hazard Area 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

depths determined. For areas of alluvial fan flooding, velocities also

Coastal flood zone with velocity hazard (wave action); Base Flood Elevations

protection from the 1% annual chance or greater flood. ZONE A99 Areas to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

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.

COMMUNITY ENCROACHMENT AREAS (Mecklenburg County)

OTHER FLOOD AREAS

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square

mile; and areas protected by levees from 1% annual chance flood.

OTHER FLOOD AREAS (Mecklenburg County) Areas of future conditions 1% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas

less than 1 square mile; and areas protected by levees from 1% annual chance flood. OTHER AREAS

Areas determined to be outside the 0.2% annual chance floodplain; areas outside

future conditions 1% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

CBRS and OPA boundary

1% annual chance floodplain boundary (Mecklenburg County) 1% annual chance floodplain boundary 1% annual chance future conditions floodplain boundary (Mecklenburg County)

0.2% annual chance floodplain boundary Floodway boundary Community encroachment boundary (Mecklenburg County) Zone D boundary

Boundary dividing Special Flood Hazard Area Zones and boundary · dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities. Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value where uniform within zone; elevation in (EL 987) * Referenced to the North American Vertical Datum of 1988

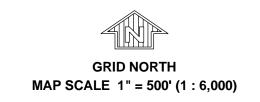
Cross section line (23)----(23)

> Geographic coordinates referenced to the North American Datum of 1000-meter Universal Transverse Mercator grid ticks, zone 17 2500-foot grid values: North Carolina State Plane coordinate system

(FIPSZONE 3200, State Plane NAD 83 feet) North Carolina Geodetic Survey bench mark (for more information BM5510 visit http://www.ncgs.state.nc.us) National Geodetic Survey bench mark (for more information visit http://www.ngs.noaa.gov) NGS-58 GPS 2-5 cm Vertical Control Marks or Contractor-Established

BM5510-7 NCFMP Bench Marks (for more information visit http://www.ncgs.state.nc.us) Mecklenburg County bench mark (for more information visit RM_LSUG14 ftp://ftp1.co.mecklenburg.nc.us/luesa/stormwater/FIRM Reference Marks/) ! M1.5

River Mile



PANEL 3488J

FIRM FLOOD INSURANCE RATE MAP NORTH CAROLINA

PANEL 3488 (SEE LOCATOR DIAGRAM OR MAP INDEX FOR FIRM PANEL

CONTAINS:

COMMUNITY CID No. PANEL SUFFIX

MECKLENBURG COUNTY 370158

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

EFFECTIVE DATE MAP NUMBER MARCH 2, 2009 3710348800J

Charlotte-Mecklenburg

STORM
WATER

State of North Carolina
Federal Emergency Management Agency