

NOTES TO USERS

is for use in administering the National Flood Insurance Program. It does not identify all areas subject to flooding, particularly from local drainage of small size. The community map repository should be consulted for updated or additional flood hazard information.

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

Base Flood Elevations shown on this map apply only to landward of 0.07 vertical datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations in the Summary of Stillwater Elevations table should be used for construction and floodplain management purposes when they are higher than the elevations shown on this FIRM.

of the floodways were computed at cross sections and interpolated cross sections. The floodways were based on hydraulic considerations with requirements of the National Flood Insurance Program. Floodway widths in this FIRM are based on the Flood Insurance Study Report for this jurisdiction.

was not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

used in the preparation of this map was Massachusetts State Plane Zone (FIPS zone 2001). The horizontal datum was NAD 83, GRS 1980. Differences in datum, spheroid, projection or UTM zones used in the FIRM for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

ations on this map are referenced to the North American Vertical Datum of 1988. Elevation data used in this FIRM should be compared to structure and ground elevations in the Flood Insurance Study Report for this jurisdiction. For information regarding conversion of the National Geodetic Vertical Datum of 1929 and the North American Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following telephone number: 1-800-732-8326.

ation Services Branch of the National Geodetic Survey, 1205 National Highway, Rockville, Maryland 20810-3282, 301-732-3242, or visit its website at <http://www.ngs.noaa.gov>.

urrent elevation, description, and/or location information for bench marks on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 732-3242, or visit its website at <http://www.ngs.noaa.gov>.

information shown on this FIRM was derived from digital orthophotography by the Massachusetts Geographic Information System. This information was from photography dated 2005.

baseline depicted on this map represent the hydraulic modeling baseline in the flood profiles in the FIS report. As a result of improved topographic data, baseline, in some cases, may deviate significantly from the channel or seep outside the SFHA.

updated topographic information this map reflects more detailed and stream channel configurations and floodplain delineations than shown on the previous FIRM for this jurisdiction. As a result, the Flood and Floodway Data tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect actual distances that differ from what is shown on the map. Also, the floodplain relationships for unreviewed streams may differ from what is shown on previous maps.

imits shown on this map are based on the best data available at the time. Because changes due to annexations or de-annexations may have occurred since this map was published, map users should contact appropriate officials to verify current corporate limit locations.

fer to the separately printed **Map Index** for an overview map of the layout of map panels, community map repository addresses, and a listing of Communities table containing National Flood Insurance Program community numbers as well as a listing of the panels on which each community number is located.

on available products associated with this FIRM visit the **Map Center (MSC)** website at <http://map.fema.gov>. Available products may include: Flood Insurance Study Report, Flood Insurance Study Report digital versions of this map. Many of these products can be ordered directly from the MSC website.

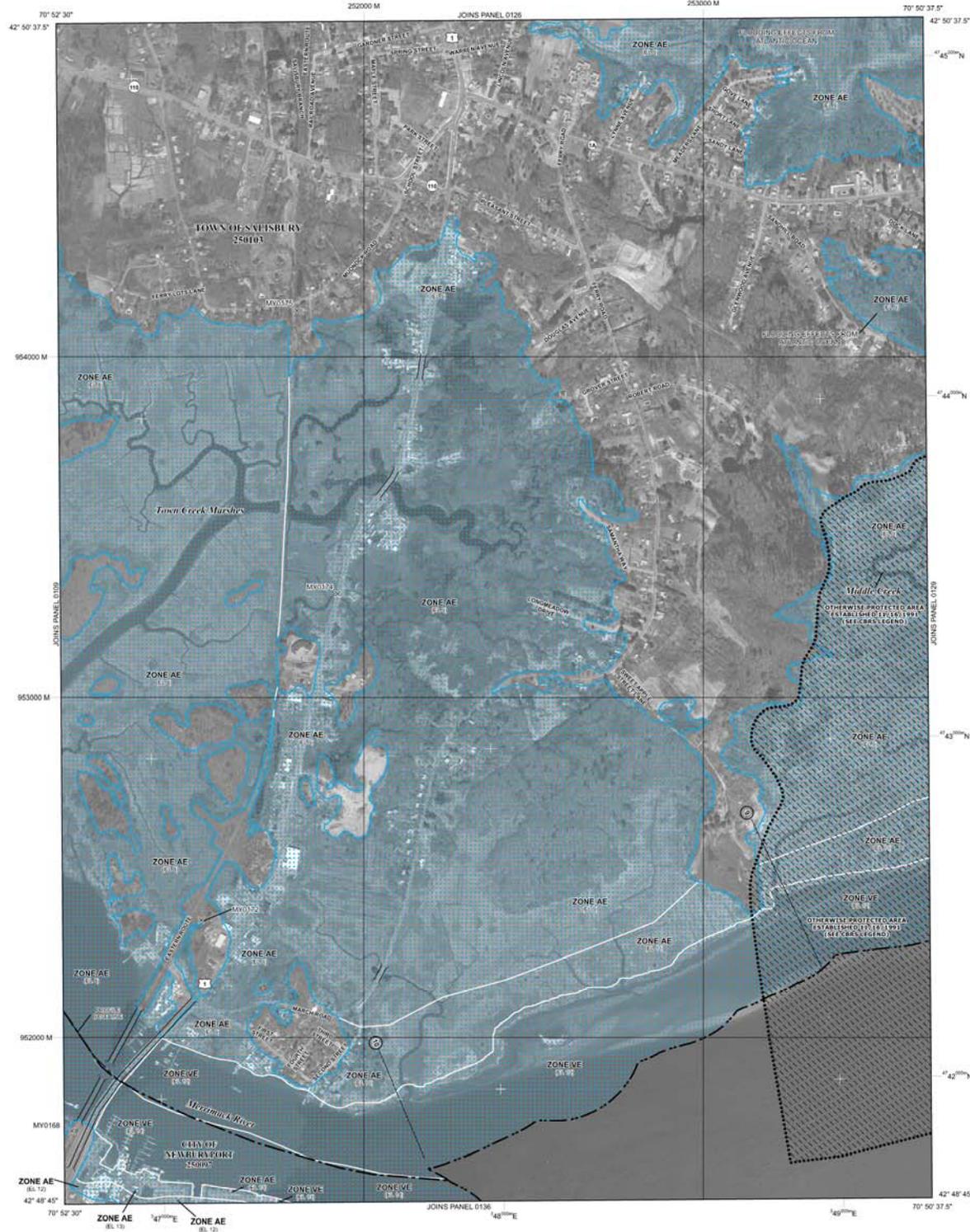
ve questions about this map, how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information (FMI)** at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/fmi>.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND

1 Otherwise Protected Area (OPA)

INSURANCE NOT AVAILABLE FOR STRUCTURES NEWLY BUILT OR FULLY REPIROVED ON OR AFTER NOVEMBER 16, 1991 IN DESIGNATED AREAS IN THE CBRS.

es of the John H. Chafee Coastal Barrier Resources System (CBRS) this FIRM were transferred from the official CBRS source map(s) and are depicted on this FIRM for informational purposes only. All CBRS maps are enacted by Congress via the Coastal Barrier Resources Act, as amended, and maintained by the U.S. Fish and Wildlife Service (FWS). The official CBRS maps used to determine whether or not an area is within the CBRS are available for download at <http://www.fws.gov>. For official determination of whether or not an area is located within the CBRS, please contact the FWS field office at 603-223-2541.



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 with a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Areas shown on this map are subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AV, AR, and VE. The Base Flood Elevation is the water elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); wave heights determined. For areas of actual flood flooding, velocities also determined.

ZONE AR Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); wave heights determined. For areas of actual flood flooding, velocities also determined.

ZONE AV Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently described. The area is now subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AV, AR, and VE. The Base Flood Elevation is the water elevation of the 1% annual chance flood.

ZONE VE Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

OTHER FLOOD AREAS

The floodway is the channel of a stream plus any adjacent floodplain areas that must be approached so that the 1% annual chance flood can be carried without substantial rise in flood heights.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D 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.

1% Annual Chance Floodplain Boundary

0.2% Annual Chance Floodplain Boundary

Floodway boundary

Floodway boundary

Zone D boundary

CBRS and OPA boundary

Boundary defining Special Flood Hazard Areas and floodplains

Base Flood Elevation line and values, elevation in feet (BL 987)

Base Flood Elevation values uniform within zone, elevation in feet

Referenced to the North American Vertical Datum of 1988

Cross section line

Traverse line

Current

Bridge

Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere

4960000 M 1000-meter UTM; Massachusetts State Plane NAD 83 Zone 18N

1980° N 1000-meter Universal Transverse Mercator grid values, zone 18N

CBRS 15 X Bench mark (see explanation in Notes to Users section of this FIRM)

BL 15 Bluff Map

MAP REPOSITORIES

Refer to Map Repository list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP: July 3, 2012

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

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0128F

FIRM

FLOOD INSURANCE RATE MAP

ESSEX COUNTY, MASSACHUSETTS (ALL JURISDICTIONS)

PANEL 128 OF 600
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY NUMBER	PANEL NUMBER
NEWBURYPORT CITY OF 25088F	0128
SAUBURY TOWN OF 25013F	0128

NOTE: THIS MAP INCLUDES BOUNDARIES OF THE COASTAL BARRIER RESOURCES SYSTEM ESTABLISHED UNDER THE COASTAL BARRIER RESOURCES ACT OF 1982 AND/OR SUBSEQUENT REVISIONS.

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

MAP NUMBER: 25009C

EFFECTIVE DATE: JULY 3, 2012

Federal Emergency Management Agency