NOTES TO USERS

is for use in administering the National Flood Insurance Program. It does
sarily identify all areas subject to flooding, particularly from local drainage
f small size. The **community map repository** should be consulted for
pdated or additional flood hazard information.

more detailed information in areas where **Base Flood Elevations** (BFEs)
odways have been determined, users are encouraged to consult the Flood
nd Floodway Data and/or Summary of Stillwater Elevations tables contained
Flood Insurance Study (FIS) Report that accompanies this FIRM. Users
aware that BFEs shown on the FIRM represent rounded whole-foot
. These BFEs are intended for flood insurance rating purposes only and
t be used as the sole source of flood elevation information. Accordingly,
ation data presented in the FIS Report should be utilized in conjunction with
for purposes of construction and/or floodplain management.

Base Flood Elevations shown on this map apply only landward of 0.0
erican Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be
t coastal flood elevations are also provided in the Summary of Stillwater
table in the Flood Insurance Study Report for this jurisdiction. Elevations
the Summary of Stillwater Elevations table should be used for construction
odplain management purposes when they are higher than the elevations
this FIRM.

Zone category has been divided by a **Limit of Moderate Wave Action**
. The LIMWA represents the approximate landward limit of the 1.5-foot
wave. The effects of wave hazards between the VE Zone and the LIMWA
n the shoreline and the LIMWA for areas where VE Zones are not identified)
ilar to, but less severe than those in the VE Zone.

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

ction 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
n of FIRMs for adjacent jurisdictions may result in slight positional
s in map features across jurisdiction boundaries. These differences do not
accuracy of this FIRM.

vations on this map are referenced to the North American Vertical Datum of
ese flood elevations must be compared to structure and ground elevations
d to the same **vertical datum**. For information regarding conversion
the National Geodetic Vertical Datum of 1929 and the North American
Datum of 1988, visit the National Geodetic Survey website at
.ngs.noaa.gov or contact the National Geodetic Survey at the following

rmation Services
NGS12
Geodetic Survey
#9202
l-West Highway
ing, Maryland 20910-3282
-3242

current elevation, description, and/or location information for **bench marks**
this map, please contact the Information Services Branch of the National
Survey at **(301) 713- 3242**, or visit its website at http://www.ngs.noaa.gov.

e Information shown on this FIRM was derived from digital
graphy. Basemap files were provided in digital form by Massachusetts
ic Information System (MassGIS). Ortho imagery was produced at a scale
and is dated April 2008 and April 2009. The projection used in the
n of this map is Massachusetts State Plane Mainland (FIPSZONE2001).
ontal datum is NAD 83, GRS1980 spheroid.

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

efer to the separately printed **Map Index** for an overview map of the
owing the layout of map panels; community map repository addresses;
ting of Communities table containing National Flood Insurance Program
each community as well as a listing of the panels on which each community

mation on available products associated with this FIRM visit the **Map
Center (MSC)** website at http://msc.fema.gov. Available products may
eviously issued Letters of Map Change, a Flood Insurance Study Report,
gital versions of this map. Many of these products can be ordered or
directly from the MSC website.

ve **questions about this map**, how to order products, or the National
urance Program in general, please call the **FEMA Map Information
e (FMIX)** at **1-877-FEMA-MAP** (1-877-336-2627) or visit the FEMA
http://www.fema.gov/business/nfip.

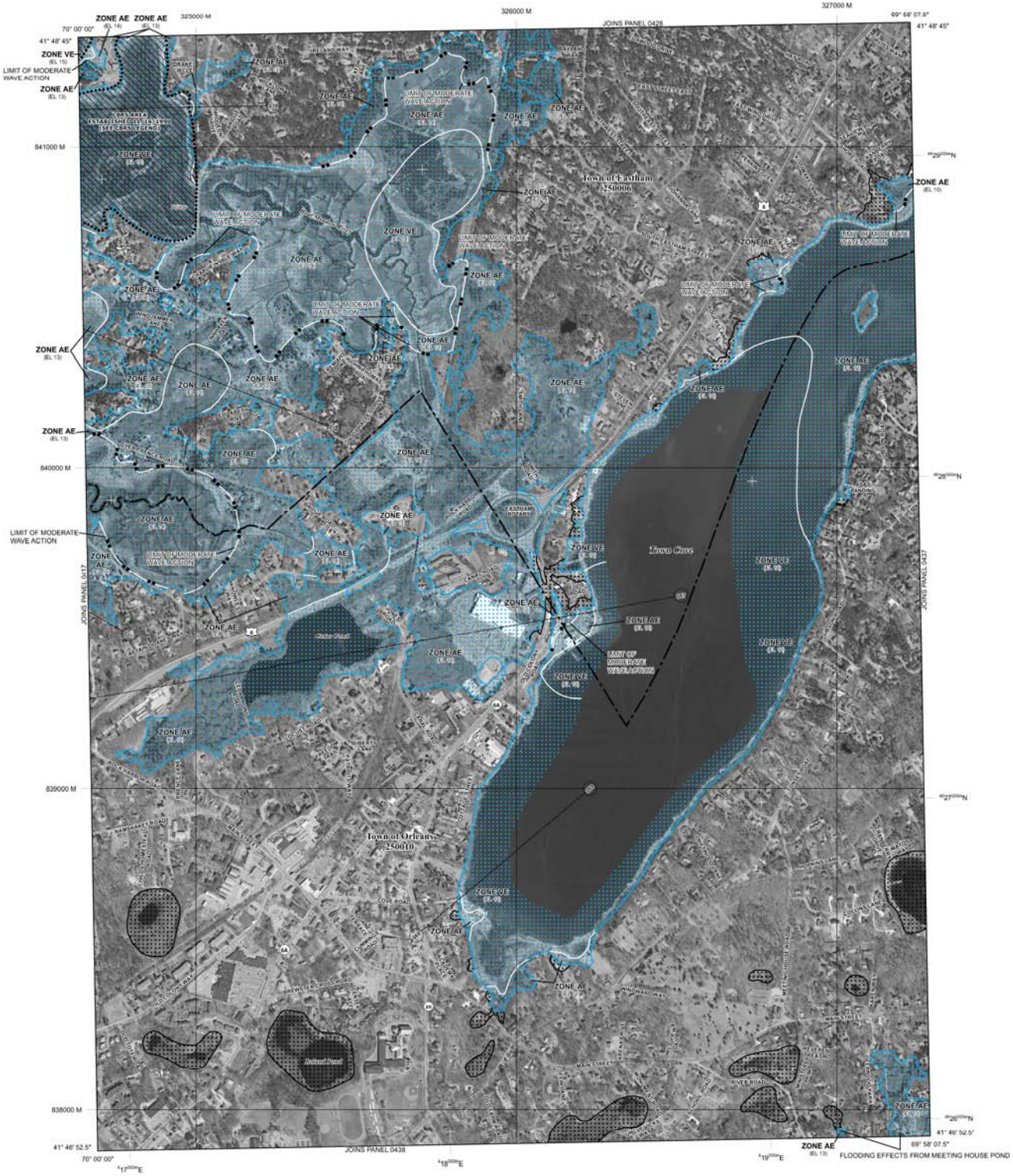
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND

3 CBRS Area
SURANCE NOT AVAILABLE FOR STRUCTURES NEWLY BUILT OR
TIALLY IMPROVED ON OR AFTER OCTOBER 01, 1983 IN DESIGNATED
AS.

0 CBRS Area
SURANCE NOT AVAILABLE FOR STRUCTURES NEWLY BUILT OR
TIALLY IMPROVED ON OR AFTER NOVEMBER 16, 1990 IN DESIGNATED
AS.

**ries of the John H. Chafee Coastal Barrier Resources System
shown on this FIRM were transferred from the official CBRS
ap(s) for this area and are depicted on this FIRM for informational
s only. The official CBRS maps are enacted by Congress via the
Barrier Resources Act, as amended, and maintained by the U.S.
Wildlife Service (FWS). The official CBRS maps used to
e whether or not an area is located within the CBRS are available
load at http://www.fws.gov. For an official determination of
or not an area is located within the CBRS, or for any questions
g the CBRS, please contact the FWS field office for this area at
2541.**

al structures that are certified to provide protection from the 1-percent-
nce flood are shown on this panel. However, all structures taken into
ion for the purpose of coastal flood hazard analysis and mapping are
the DFIRM database in S_Gen_Struct



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
a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard
the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Haza
include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-s
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 areas of ponding); Base Flood Ele
determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); av
depths determined. For areas of alluvial fan flooding, velocities also de

ZONE AR Special Flood Hazard Areas formerly protected from the 1% annual ch
flood by a flood control system that was subsequently decertified. Zo
AR indicates that the former flood control system is being restored to
protection from the 1% annual chance or greater flood.

ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood
protection system under construction; no Base Flood Elevations deter

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

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Ele
determined.

FLOODWAY AREAS IN ZONE AE

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

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood wit
average depths of less than 1 foot or with drainage areas less than 1 squa
mile; and areas protected by levees from 1% annual chance flood.

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 Are

1% Annual Chance Floodplain Boundary
0.2% Annual Chance Floodplain Boundary
Floodway boundary
Zone D boundary
CBRS and OPA boundary

Boundary dividing Special Flood Hazard Area Zones and bo
dividing Special Flood Hazard Areas of different Base Flood
flood depths, or flood velocities.

Limit of Moderate Wave Action

Limit of Moderate Wave Action coincident with Zone Break

513 Base Flood Elevation line and value; elevation in feet*

(EL 987) Base Flood Elevation value where uniform within zone; ele
feet*

*Referenced to the North American Vertical Datum of 1988

A A Cross section line

23 23 Transect line

Culvert

Bridge

45° 02' 08", 93° 02' 12" Geographic coordinates referenced to the North American D
1983 (NAD 83) Western Hemisphere

4969000 M 1000-meter grid values: Massachusetts State Plane Mainla
(FIPS zone 2001), Lambert Conformal Conic projection

5000 m N 1000-meter Universal Transverse Mercator ticks, zone 19N

DX5510 X Bench mark (see explanation in Notes to Users section of th
panel)

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
July 16, 2014

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

For community map revision history prior to countywide mapping, refer to the Communi
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 ag
or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'

250 0 500 1000 FEET

150 0 150 300 METERS

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0436J

FIRM

FLOOD INSURANCE RATE MA

BARNSTABLE COUNT
MASSACHUSETTS
(ALL JURISDICTIONS)

PANEL 436 OF 875
(SEE MAP INDEX FOR FIRM PANEL LA

CONTAINS:

COMMUNITY	NUMBER	PANEL
EASTHAM, TOWN OF	250006	0436
ORLEANS, TOWN OF	250010	0436

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

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

MAP NUM
25001C0

EFFECTIVE
JULY 16,

Federal Emergency Management