## NOTES TO USERS

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 information.

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 and Floodway 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.

**Coastal Base Flood Elevations** shown on this map apply only landward of 0.0' North American 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 shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** 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 are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas 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.

The **projection** used in the preparation of this map was Massachusetts State Plane Mainland Zone (FIPS zone 2001). The horizontal datum was NAD 83, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs 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.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, Maryland 20910-3282 (301) 713-3242

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

Base Map information shown on this FIRM was provided in digital format by MassGIS. This information was photogrammetrically compiled at a 30 cm resolution from aerial photography dated 2009, and converted to black and white.

The **profile baselines** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the profile baseline, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

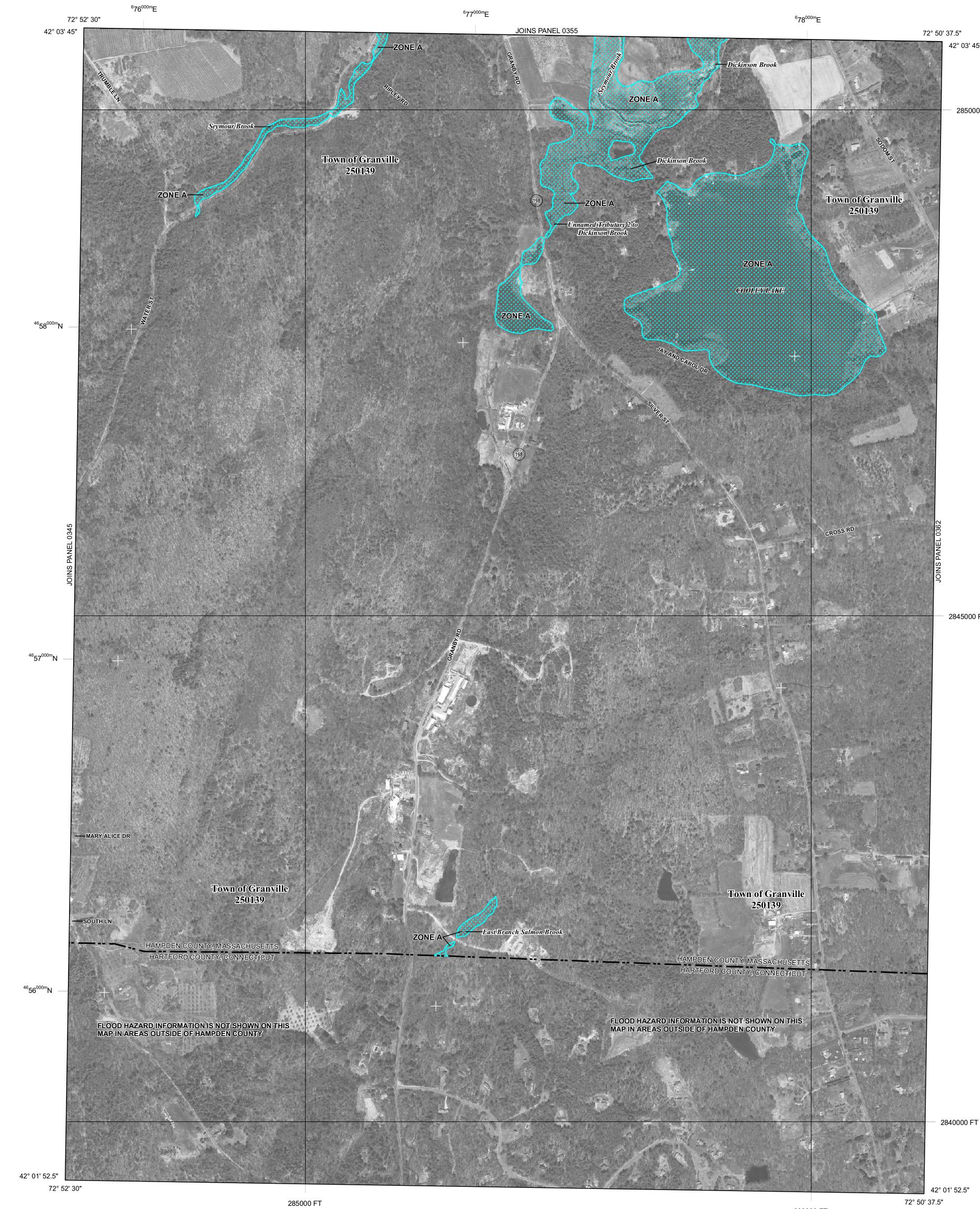
This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and odways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables for multiple streams 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.

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

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.

For information on available products associated with this FIRM visit the Map Service Center (MSC) website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have questions about this map, how to order products, or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange (FMIX) at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip.



42° 03' 45"

2850000 FT

2845000 FT

		LEGEND
		OD HAZARD AREAS (SFHAs) SUBJECT TO BY THE 1% ANNUAL CHANCE FLOOD
	l chance flood (100-	D-year flood), also known as the base flood, is the flood that ha exceeded in any given year. The Special Flood Hazard Area is
the area subje	ct to flooding by the	e 1% annual chance flood. Areas of Special Flood Hazard A99, V, and VE. The Base Flood Elevation is the water-surface
	e 1% annual chance	e flood.
ZONE A ZONE AE		d Elevations determined. levations determined.
ZONE AH		of 1 to 3 feet (usually areas of ponding); Base Flood Elevations
ZONE AO	determined. Flood depths o	of 1 to 3 feet (usually sheet flow on sloping terrain); average
		nined. For areas of alluvial fan flooding, velocities also determine
ZONE AR	flood by a floo	Hazard Areas formerly protected from the 1% annual chance od control system that was subsequently decertified. Zone that the former flood control system is being restored to provide
ZONE A99	protection fror	otected from 1% annual chance or greater flood.
	protection syst	stem under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood z determined.	zone with velocity hazard (wave action); no Base Flood Elevatic
ZONE VE	Coastal flood z determined.	zone with velocity hazard (wave action); Base Flood Elevations
////	Floodway Af	REAS IN ZONE AE
,		stream plus any adjacent floodplain areas that must be kept free nual chance flood can be carried without substantial increases in
flood heights.		
	OTHER FLOOD	D AREAS
ZONE X	Areas of 0.2% and	nual chance flood; areas of 1% annual chance flood with
	mile; and areas pr	of less than 1 foot or with drainage areas less than 1 square protected by levees from $1\%$ annual chance flood.
	OTHER AREAS	5
ZONE X ZONE D		d to be outside the 0.2% annual chance floodplain. ood hazards are undetermined, but possible.
		RRIER RESOURCES SYSTEM (CBRS) AREAS
	COASTAL DAK	RIER RESOURCES STSTEM (CDRS) AREAS
	OTHERWISE P	PROTECTED AREAS (OPAs)
CBRS areas an	-	ly located within or adjacent to Special Flood Hazard Areas. 6 Annual Chance Floodplain Boundary
		2% Annual Chance Floodplain Boundary
	Floo	oodway boundary
		ne D boundary
• • • • • • • • •		BRS and OPA boundary oundary dividing Special Flood Hazard Area Zones and boundary
	divi	viding Special Flood Hazard Areas of different Base Flood Elevation od depths, or flood velocities.
<b>~~~</b> 513 −	Dee	use Flood Elevation line and value; elevation in feet*
(EL 987	) Bas fee	ise Flood Elevation value where uniform within zone; elevation in et*
*Referenced to	the North Americar	an Vertical Datum of 1988
A >		oss section line
23	Tra	ansect line
45° 02' 08", 9		eographic coordinates referenced to the North American Datum c 183 (NAD 83) Western Hemisphere
3100000	FT 500	100-foot ticks: Massachusetts State Plane Mainland Zone
<sup>49</sup> 89 <sup>000m</sup> ℕ		IPS Zone 2001), Lambert Conformal Conic projection 100-meter Universal Transverse Mercator grid values, zone 18
DX5510	X	nch mark (see explanation in Notes to Users section of this FIRM nel)
• M1.5	Riv	ver Mile
		FFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP E DATE(S) OF REVISION(S) TO THIS PANEL
		istory prior to countywide mapping, refer to the Community e Flood Insurance Study report for this jurisdiction.
To determin	e if flood insurance	is available in this community, contact your insurance agent
or call the N	iational Flood Insura	rance Program at 1-800-638-6620.
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		PANEL 0361E
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		FLOOD INSURANCE RATE MAP
		HAMPDEN COUNTY,
		MASSACHUSETTS (ALL JURISDICTIONS)
		PANEL 361 OF 506
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Federal Emergency Management Agency