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 <u>http://www.ngs.noaa.gov.</u>

Base map information shown on this FIRM was derived from digital orthophotography. Base map files were provided in digital form by Massachusetts Geographic Information System (MassGIS). Ortho imagery was produced at a scale of 1:5,000. Aerial photography is dated April 2005.

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.

Based on updated topographic information, this map reflects more detailed and up-to-date **stream channel configurations and floodplain delineations** than those shown on the previous FIRM for this jurisdiction. 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 the map. Also, the road to floodplain relationships for unrevised streams may differ from what is shown on previous maps.

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.

Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at http://msc.fema.gov.

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/business/nfip/.

71° 30' 00" 42° 05' 37.5" 871000 M-----HAZARD INE 870000 M— 869000 M-----

42° 03' 45" 71° 30' 00" 42° 05' 37.5"

----⁴⁶63^{000m}N

42° 03' 45"



²94^{000m}

²95⁰⁰⁰ⁿ

		LEGE	IND	
a 1% chance o the area subject	INUNDAT I chance flood of being equale ct to flooding b A, AE, AH, AO,	d or exceeded in any g by the 1% annual chanc AR, A99, V, and VE. Th	ANNUAL CH known as the iven year. The e flood. Areas	
elevation of the ZONE A		nance flood. Flood Elevations determ	ined.	
ONE AE	Base Flood Elevations determined.			
	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.			
	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined Special Flood Hazard Areas formerly protected from the 1% annual chance			
ONE AR	flood by AR indica protectio	a flood control system t	hat was subse d control syste hance or great	quently decertified. Zone on is being restored to provide ter flood.
ONE V	protectio	n system under constru	ction; no Base	Flood Elevations determined. action); no Base Flood Elevation
	determin	ed.		action); Base Flood Elevations
	determin	,	·	"
ncroachment	s the channel	of a stream plus any adj	jacent floodpla	in areas that must be kept free without substantial increases in
od heights.	OTHER FL	ood areas		
ONE X	average dep	reas of 0.2% annual chance flood; areas of 1% annual chance flood with verage depths of less than 1 foot or with drainage areas less than 1 square nile; and areas protected by levees from 1% annual chance flood.		
	other af	REAS		
ONE X ONE D		nined to be outside the ch flood hazards are und		
	COASTAL	OASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS		
	OTHERWI	SE PROTECTED AR	FAS (OPAs)	
SRS areas an			. ,	ecial Flood Hazard Areas.
		1% Annual Chance Fl 0.2% Annual Chance	•	
		Floodway boundary		
••••		Zone D boundary CBRS and OPA bound	arv	
0000000	000		·	ard Areas of different Base
		Flood Elevations, floor	d depths or flo	od velocities.
		Base Flood Elevation		elevation in feet* niform within zone; elevation in
, ,		feet* erican Vertical Datum o		
A)	$-\langle A \rangle$	Cross section line		
 23)	23	Transect line		
45° 02' 08", 9	93° 02' 12"	Geographic coordinate 1983 (NAD 83) Weste		to the North American Datum of
4989000	M	1000-meter ticks: Mas	ssachusetts Sta	ate Plane Mainland Zone
⁴⁹ 89 ^{000m} N	l	(FIPS Zone 2001), La 1000-meter Universal		ercator grid values, zone 19N
DX5510	×	Bench mark (see expl panel)	anation in Note	es to Users section of this FIRM
• M1.5		River Mile MAP REPOS	SITORIES	
Map History To determin	e if flood insur	in the Flood Insurance	Study report fo community, co	ntact your insurance agent
	250	MAP SCALI	E 1" = 500' 500	1000
				FEET METERS
	150	0	150	300
				EL 0303E
		NORF MASS	INSURA OLK (SETTS
	NGE			2 R FIRM PANEL LAYOUT) JMBER <u>PANEL SUFFI</u>
	(OD INSURA		PRELIM	
	NL FLO	Community used on in	used wher y Number	ap Number shown belon placing map orders; t shown above should l pplications for the subje
		community.		
	ANOINA	Community.		MAP NUMBER 25021C0303E EFFECTIVE DATE