



TOWN OF WINTHROP

Town Hall – 1 Metcalf Square
Winthrop, Massachusetts 02152

Winthrop Flood Resilience Checklist for Residential Properties

Last Updated: April 1st, 2021

The following checklist should be submitted with permit applications to the Building Commissioner for residential new construction, substantial improvements of existing buildings or utilities upgrade. This checklist is meant to serve as a guide for property owners and developers to help prepare for increased flood risks due to climate change.

Please refer to the Flood Resilience Checklist Addendum for additional information and definitions.

PROJECT INFORMATION

Applicant Name: _____

Owner: _____

Property Address: _____

Map # _____ **Lot #** _____

Is this project: New Construction Substantial Improvement of Existing Building

Other Retrofit Equipment/Utilities Upgrade

Note: Construction of new structures and substantial improvements to existing structures in a flood zone must comply with all National Flood Insurance Program (NFIP) and Massachusetts State Building Code regulations.

Please provide a brief description of the proposed work:

1. FEMA Special Flood Hazard Area

Is any portion of your property in a 1% flood zone (FEMA Special Flood Hazard Area)?

Yes, What Zone: _____

What is the Base Flood Elevation? _____

No



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FEMA defines the Base Flood Elevation (BFE) as the computed elevation to which the flood is anticipated to rise during the base flood. BFE's listed on FEMA Flood Insurance Rate Maps (FIRMs) are also referred to as the 1-percent annual chance flood or 100-year flood.

2. COASTAL FLOODING

Is your property in a location expected to be impacted by future Sea Level Rise (SLR)? See Map X.

Yes, What Scenario: _____

No

What flood depth is expected at the property?
_____ ft.

Has your property flooded in the past?

Yes No Don't know

If your answered "YES" to the previous question, please answer the following questions to the best of your knowledge.

What were the dates of the flooding?

Flood Event #1 _____

Flood Event #3 _____

Flood Event #2 _____

Flood Event #4 _____

What was the depth of the flooding to your property? (If you can, state the height of the water above the lowest floor, including the basement floor.)

Flood Event #1 _____

Flood Event #3 _____

Flood Event #2 _____

Flood Event #4 _____



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Additional Comments: _____

3. RAINSTORMS AND PRECIPITATION

Has your property flooded in the past due to precipitation?

Yes No Don't know

If you answered "YES" to the previous question, please answer the following questions as best you can.

What were the dates of the flooding?

Flood Event #1 _____

Flood Event #3 _____

Flood Event #2 _____

Flood Event #4 _____

What was the depth of the flooding to your property? (If you can, state the height of the water above the lowest floor, including the basement floor.)

Flood Event #1 _____

Flood Event #3 _____

Flood Event #2 _____

Flood Event #4 _____

Additional Comments: _____



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4. FLOODING SITE INTERVENTIONS

Are you providing extra freeboard as a protection measure from flood damage?

Freeboard is the elevation a building's lowest floor above the base flood elevation. The MA Building Code- Residential Code requires 2 feet of freeboard in V zones and 1 foot of freeboard in A zones. Additional freeboard provides increased protection from flooding and greatly reduced flood insurance premiums. Please review the Massachusetts Office of Coastal Zone Management [Freeboard Fact Sheet](#) or visit the CZM freeboard [webpage](#) for more information.

Yes

Base Flood Elevation: _____

Proposed Freeboard: _____

No

Check all that apply:

Too expensive Existing zoning/height restrictions won't allow

Please describe any additional reasons

Was future Sea Level Rise considered when determining the freeboard? Yes No



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Please provide annual flood insurance quotes/estimates for the following:

1ft. of freeboard: \$ _____ (for A zones only)

2ft. of freeboard: \$ _____

3ft. of freeboard: \$ _____

4ft. of freeboard: \$ _____

What building or site measures are you implementing to protect against flooding and reduce flood damage?

Elevate Building

Eliminate basement use

Elevate mechanical and electrical equipment
(flood-proof equipment that cannot be elevated)

Sump Pump/Internal Drainage System

Install Backflow Valves

Installing flood openings

Other (please describe):

5. STORMWATER RETENTION AND REUSE SITE INTERVENTIONS

Please provide the percentage of existing impervious cover*: _____ %

List the percentage of proposed impervious cover*: _____ %

**Impervious cover includes any structure, surface or improvement that reduces and/or prevents absorption of stormwater into land (buildings, paved driveways, parking areas, and pathways)*

What building or site measures are you implementing for reducing stormwater run-off and protecting against flooding from rainfall?

Increase Green Spaces and Planted Areas

Rain Garden, Bioswales, or other Green Infrastructure

Permeable Pavement or Permeable Pavers

Green Roofs

Rainwater Harvesting/Cistern



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Other (please describe):	
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