



FEMA

## Scientific Resolution Panel Request Form

*This form is to be completed by the community's CEO or the authorized representative of the community for which the appeal or protest is being filed. The CEO will consolidate all unresolved appeals and protests by private persons and submit them on their behalf. The CEO will also forward to FEMA copies of appeals and protests not endorsed by the community and certify that no further appeals or protests will be brought to FEMA for the community.*

Date: November 5, 2014

Name of Community: North Attleborough

County and State of Community: Bristol, MA

Name of Community CEO or authorized representative:

Mark Fisher, Town Administrator

Mailing Street Address: 43 South Washington St.

City: North Attleborough State: MA Zip: 02760

Phone Number (Work): 508-699-0100

Phone Number (Cell): \_\_\_\_\_

Email Address: \_\_\_\_\_

Does the data submitted constitute an appeal (as defined below)  or a protest \_\_\_\_\_?

If it is an appeal, pursuant to 44 CFR Section 67.6 (b) does the submitted data satisfy the data requirements and demonstrate that FEMA's proposed base flood elevations are:

(1) technically incorrect due to a mathematical or measurement error or changed physical conditions?

(2) technically incorrect due to error in application of hydrologic, hydraulic or other methods or use of inferior data in applying such methods?

(3) scientifically incorrect?

If an oral presentation to the SRP is necessary to support this appeal or protest, please justify here.

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### Community Commitment and Certification

The community certifies that:

1. The data provided for SRP review was entirely submitted to FEMA during the 90-day appeal period?

Y  N

2. No additional data may be submitted for this or any other appeal or protest for SRP consideration?

Y  N

3. There may be no submission of any other appeals and protests not consolidated with this submission?

Y  N

### Location of Contested Flood Elevations

4. Identify the specific river reaches or coastal transects challenged by the data.

Landry Ave Brook - Six Locations

Scotts Brook - One Location

Ten Mile River - Two Locations

Mason Park Brook - One Location

Falls Pond - (part of Ten Mile River) Two Locations

5. *Please identify areas of expertise the community believes are pertinent for representation on the SRP.*

Photogrammetry, Lidar Data Interpretation  
G.I.S Mapping

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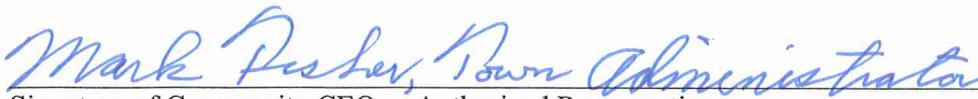
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6. **Description of Information to be Submitted by the Community Indicating that the Elevations Proposed by FEMA are Scientifically or Technically Incorrect**  
*Please include on a separate page labeled "Attachment A: Summary of Appeal or Protest Information" a summary of the specific technical issues, errors in FEMA's data, or different technical processes submitted to contest the flood elevations proposed by FEMA.*

7. **Acceptance by Community of Terms and Conditions for the Initiation of an SRP**  
*To initiate the SRP process, the community's CEO or authorized representative must accept the following terms and conditions on behalf of the community and individuals whose appeals or protests are consolidated with this submission.*

- a) The community understands that the FEMA Administrator is not required to accept the recommendation of the SRP, and that upon the Administrator's final determination that no further consideration will be given to the community's appeals or protests. For a regulatory appeal, the parties will maintain their right to appeal to the appropriate Federal District Court.
- b) The community has read the FEMA prepared Guidance Memorandum and agrees to work with the National Institute of Building Sciences (NIBS) in the timely completion of the SRP review, including timely selection of panel members and participation in additional review procedures if requested.
- c) The community agrees that no contact will be made with the Panel members except as expressly requested by NIBS before, during or after the SRP review is undertaken.
- d) The community agrees that they have read and signed the "Community Submittal Agreement."



Signature of Community CEO or Authorized Representative



**TOWN OF NORTH ATTLEBOROUGH, MASSACHUSETTS  
BOARD OF PUBLIC WORKS**

DONALD CERRONE, CHAIRMAN  
JOHN M. WALSH, VICE CHAIRMAN  
MICHAEL S. THOMPSON, MEMBER

49 Whiting Street, North Attleborough, MA  
Telephone: (508) 695-9621  
Fax: (508) 643-0568

MARK L. HOLLOWELL, DIRECTOR

[www.north-attleboro.ma.us](http://www.north-attleboro.ma.us)

November 5, 2014

Gregory J. Stewart, P.E.  
Data Section Chief  
USGS Maine Water Science Center  
196 Whitten Road  
Augusta, ME 04330

**Re: 2014 FEMA Flood Insurance Rate Map Revisions – North Attleborough DPW Review**

Dear Mr. Stewart:

At the request of our residents, the North Attleborough Department of Public Works performed a review of the Federal Emergency Management Agency's Flood Insurance Rate Map 2014 revisions.

The process was primarily qualitative. The Department does not dispute the hydrologic estimations or the assumptions made to generate the hydrographs for the individual watersheds. The Department imported the revised Base Flood Elevation (BFE) shapefiles into the Town's GIS mapping software, reviewed each watercourse through Town and compared the designated elevations, where provided, to the Town's topographic contours.

In most instances, the noted BFE's corresponded within less than 0.5 foot of the Town's topography. The Ten Mile River inundation plains based on the new detailed study were particularly analogous to the Town's contours. These areas were deemed in substantial agreement with the Town's topography. The 12 attached examples are brought to your attention because it is felt that the FEMA shapefiles are in substantial disagreement with the contours. The Town has provided your organization our most recent (Spring, 2013) topographic data as well as LiDAR data points for the entire Town including areas within Plainville and Attleboro where North Attleborough infrastructure facilities are located.

The Town is respectfully requesting that the FEMA F.I.R.M. base flood shapefiles be reviewed by your organization and, if necessary, re-established in conformity with the most accurate topographic data available.

The revised F.I.R.M. maps and new insurance premium rates represent a potentially significant financial burden to households, including many that were not previously located within the anticipated inundation areas. We feel that it is the Town's responsibility to ensure that the revisions to the Maps are reviewed and affirmed to be as complete and as correct as existing technology will allow.

Please contact me if you require any additional information. We greatly appreciate your time and attention on this matter.

Sincerely,

William E. McDowell, P.E.  
NADPW Project Manager

cc: Town Administrator  
Board of Public Works  
DPW Director

**November 7, 2014  
Town of North Attleborough,  
Bristol County, Massachusetts**



## **ATTACHMENT A**

# **SUMMARY OF APPEAL INFORMATION**

**TWELVE INDIVIDUAL GIS MAP ILLUSTRATIONS AND TWO PAGES OF EXPLANATORY TEXT**

**(14 PAGES)**

In the 12 attached maps, the FEMA Base Flood Elevations have been noted with a red, hatched line and the designated elevation has been called out as "FEMA AE XXX" corresponding to the FIRM Map designations. The corresponding contour line has been highlighted in green. The Department does not suggest that the highlighted contour represents the limit of the inundation plain, only highlights the contour to illustrate that the inundation plain is inconsistent with the Town's most recent topography layer. The following captions are brief descriptions of the individual maps.

**LOCATION ONE**  
**Panel 25005C0103G**  
**SEVEN MILE RIVER SOUTH SIDE OF HICKORY ROAD**

The flood plain south of Hickory Rd and north of Hoppin Hill Ave extends to elevation 199. It is understood that this area is a transitional stream course, however it does not seem probable that a backwater of this magnitude could occur given the downstream flood elevation.

The area south of Hoppin Hill Ave also traverses contours and extends to elevation 186 while the downstream inundation area does not conform to the noted elevation of 182.

**LOCATION TWO**  
**Panel 25005C0101G and 102G**  
**SCOTT'S BROOK NORTH OF ARNOLD ROAD**

Arnold Road acts as a partial dyke structure. The roadway elevation is approximately 252. The designated BFE corresponds to this elevation. The inundation plain as drawn is well outside of the limit of this elevation, based on the Town topography.

**LOCATION THREE**  
**Panel 25005C0102G**  
**TEN MILE RIVER TRIBUTARY AT NORTH WASHINGTON STREET AND PARK ST**

The FEMA BFE at the east side of North Washington St (Route 1) is 195. The actual ground surface is lower than 195 and slopes consistently to the southwest with no break at the roadway, as is correctly indicated by the contours in the area. Based on the existing grade, the inundation plain cannot achieve this level of flooding in this area. In addition, if the BFE level of 195 is correct, the inundation should extend southerly across Elmwood Street. It is also not clear how the inundation plain noted easterly of this location (shown around elevation 212) is possible, given the highly sloped nature of the ground surface at this location.

**LOCATION FOUR**  
**Panel 25005C102G**  
**MASON PARK BROOK AT SPRING ST AND LYMAN RD NEAR MOUNT HOPE CEMETERY**

There is a 24" RCP drain located behind the residences located on Lyman Road. The inundation plain follows the course of this pipe generally, however, this area does not flood and should not be designated as the inundation plain. Surface water could not follow this course. The BFE noted at the southern portion of this area is inconsistent with Town topo.

**LOCATION FIVE**  
**Panel 25005C102G**  
**FALLS POND SOUTH OF RESERVOIR ST**

The Town has provided USGS with updated information regarding the Falls Pond Dam elevation and dimensions of the weir cross section. (Information also included with this submission) It is anticipated that the BFE on the northern portion of Falls Pond will change based on the revised dam configuration. The southern portion of falls pond does not communicate directly with the northern portion due to Reservoir Street which currently acts as a dike between the two lobes of the pond. The designated BFE of 175 extends over the entire southern portion. The inundation plain exceeds the 175 elevation by several vertical feet in many instances around the pond.

**LOCATION SIX**  
**Panel 25005C104G**  
**LANDRY AVE BROOK WEST OF KENNETH KOSTKA DRIVE**

The BFE designation and inundation plain does not agree with the Town topography.

**LOCATION SEVEN**  
**Panel 25005C0106G**  
**LANDRY AVE BROOK WEST OF MARTIN SCHOOL**

The BFE designation and inundation plain does not agree with Town topography.

**LOCATION EIGHT**  
**Panel 25005C0106G**  
**LANDRY AVE BROOK NORTH OF DONALD TENNANT CIRCLE**

The inundation plain does not have a determined BFE, however the inundation plain extends between elevation 144 and 148 as shown. The roadway, which is acting as a control structure, is at approximately elevation 143. It does not seem probable that this area could have a five foot vertical backwater over the 1000 horizontal feet of inundation.

**LOCATION NINE**  
**Panel 25005C0106G**  
**LANDRY AVE BROOK BETWEEN DONALD TENNANT CIR. AND BUNGAY RD.**

The inundation plain does not have a determined BFE, however the inundation plain extends between elevation 140 and 135. The roadway acting as a control structure is at approximately elevation 137. It does not seem probable that the area could have a three foot vertical backwater over the 950 horizontal feet of anticipated elevation.

**LOCATION TEN**  
**Panel 25005C0106G**  
**LANDRY AVE BROOK AT KELLEY WATER TREATMENT FACILITY**

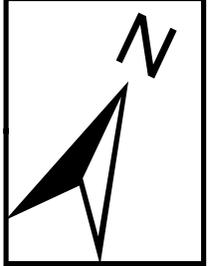
The BFE of 125 and 126 for the respective inundation plain does not match town topography and exceeds the contours by several vertical feet affecting adjacent residences.

**LOCATION ELEVEN**  
**Panel 25005C0106G**  
**LANDRY AVE BROOK SOUTH OF MARY KENNEDY DRIVE**

The inundation plain exceeds the limit of the BFE by several vertical feet in several locations.

**LOCATION TWELVE**  
**Panel 25005C0102G**  
**TEN MILE RIVER EAST OF FALLS POND DAM AT TOWNE STREET**

The inundation plain appears to exceed the BFE of 148 by more than one vertical foot in several locations in this area. The Fall Fire Barn is elevated several feet above Commonwealth Avenue as is indicated by the topography, however the building is shown within the inundation plain.



FEMA AE DESIG. = 193

ELEV. 193 (TOWN TOPO)

**Legend**

- hydro\_poly
- S\_FLD\_HAZ\_AR
  - <all other values>
- FLD\_ZONE
  - 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
  - A
  - AE
  - X

ELEV. 182 (TOWN TOPO)

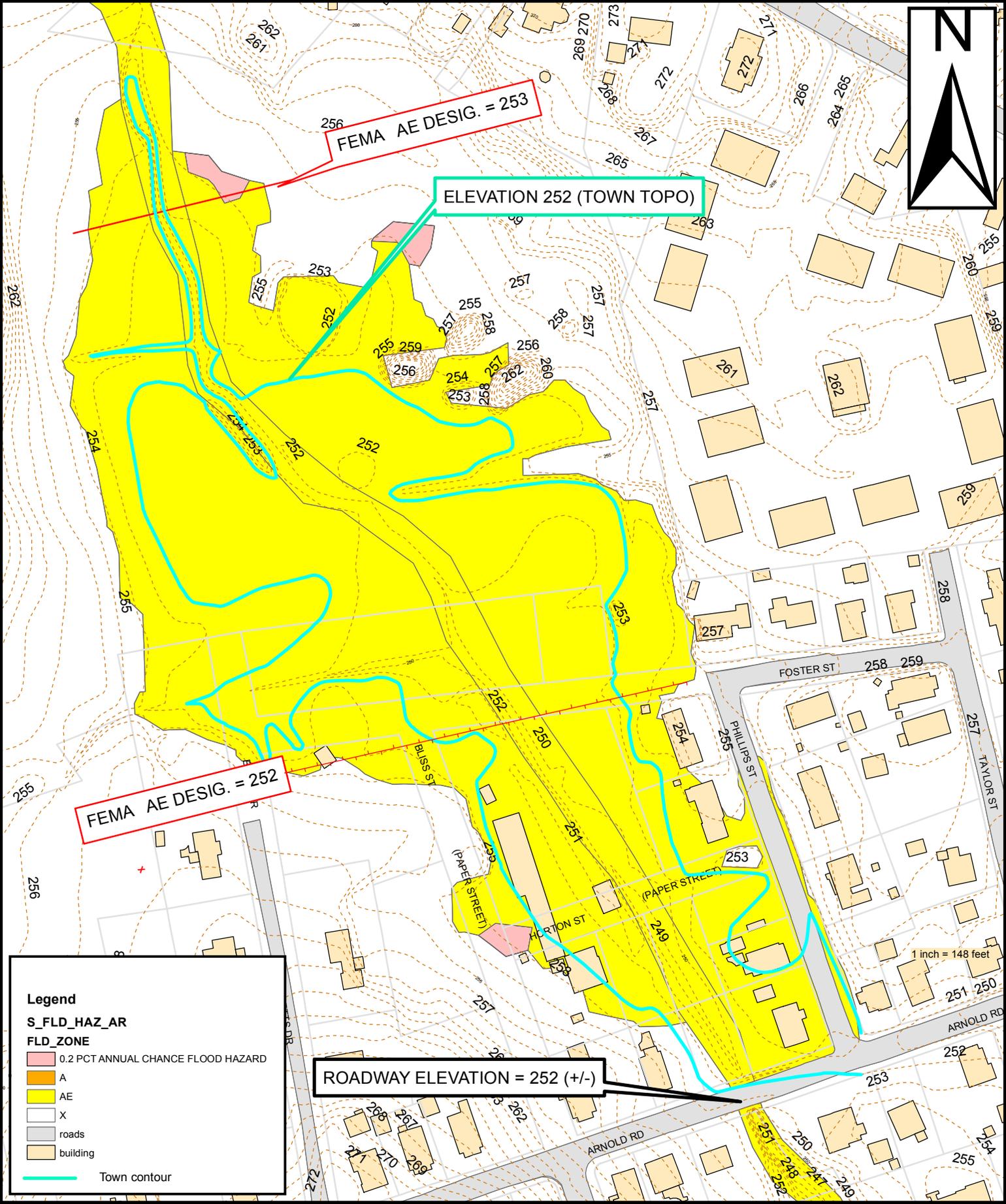
FEMA AE DESIG. = 183

FEMA AE DESIG. = 182

**FEMA CHECKPLOT MAP**  
LOCATION ONE - PNL 25005C0103G - SEVEN MILE RIVER - SOUTH OF HICKORY ROAD

1 inch = 400 feet





**Legend**

**S\_FLD\_HAZ\_AR**

**FLD\_ZONE**

0.2 PCT ANNUAL CHANCE FLOOD HAZARD

A

AE

X

roads

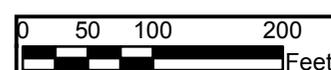
building

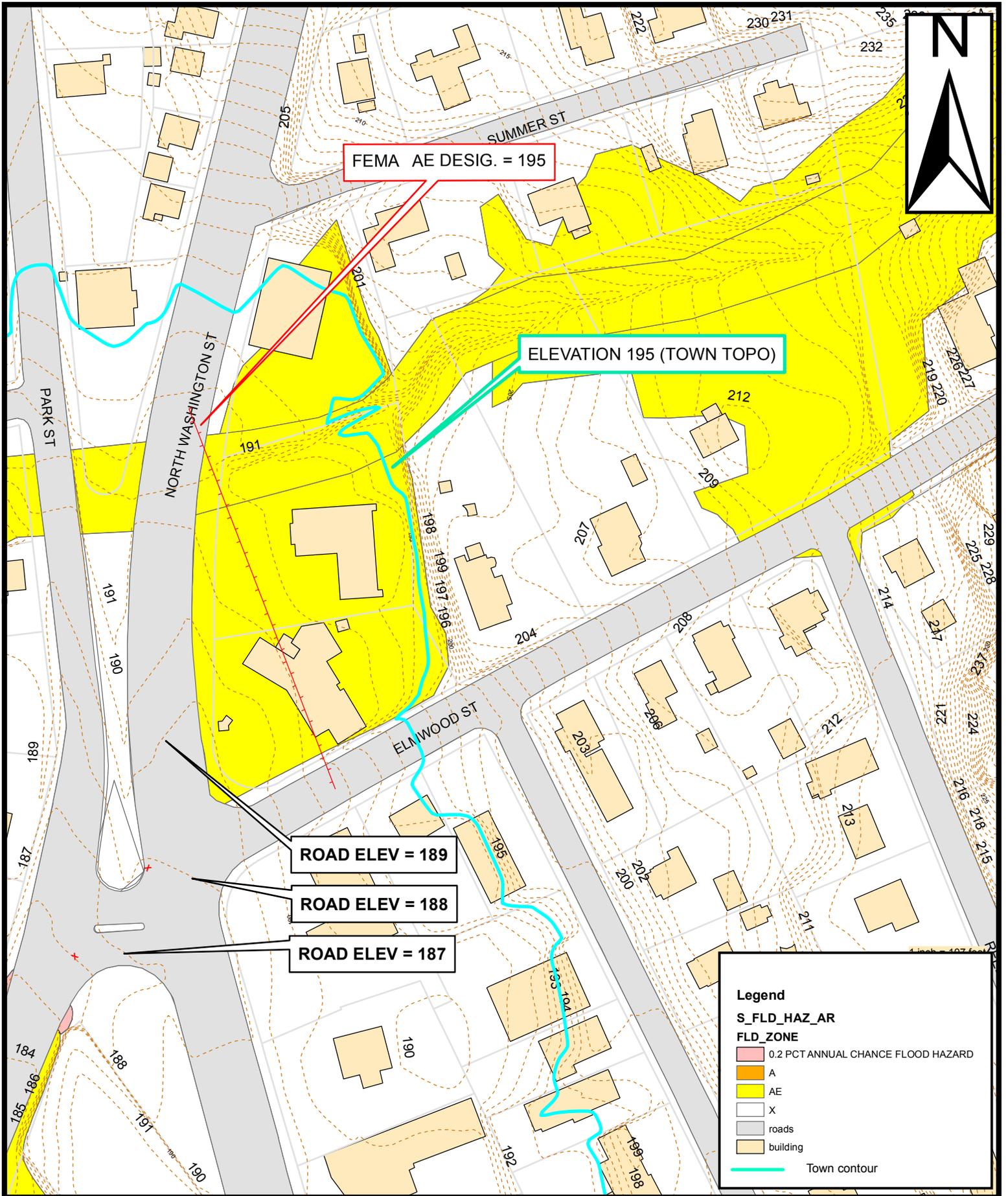
Town contour

**FEMA CHECKPLOT MAP**

LOCATION TWO - PNL 25005C0101 and 102G - SCOTT'S BROOK AT ARNOLD ROAD

NORTH ATTLEBOROUGH D.P.W.



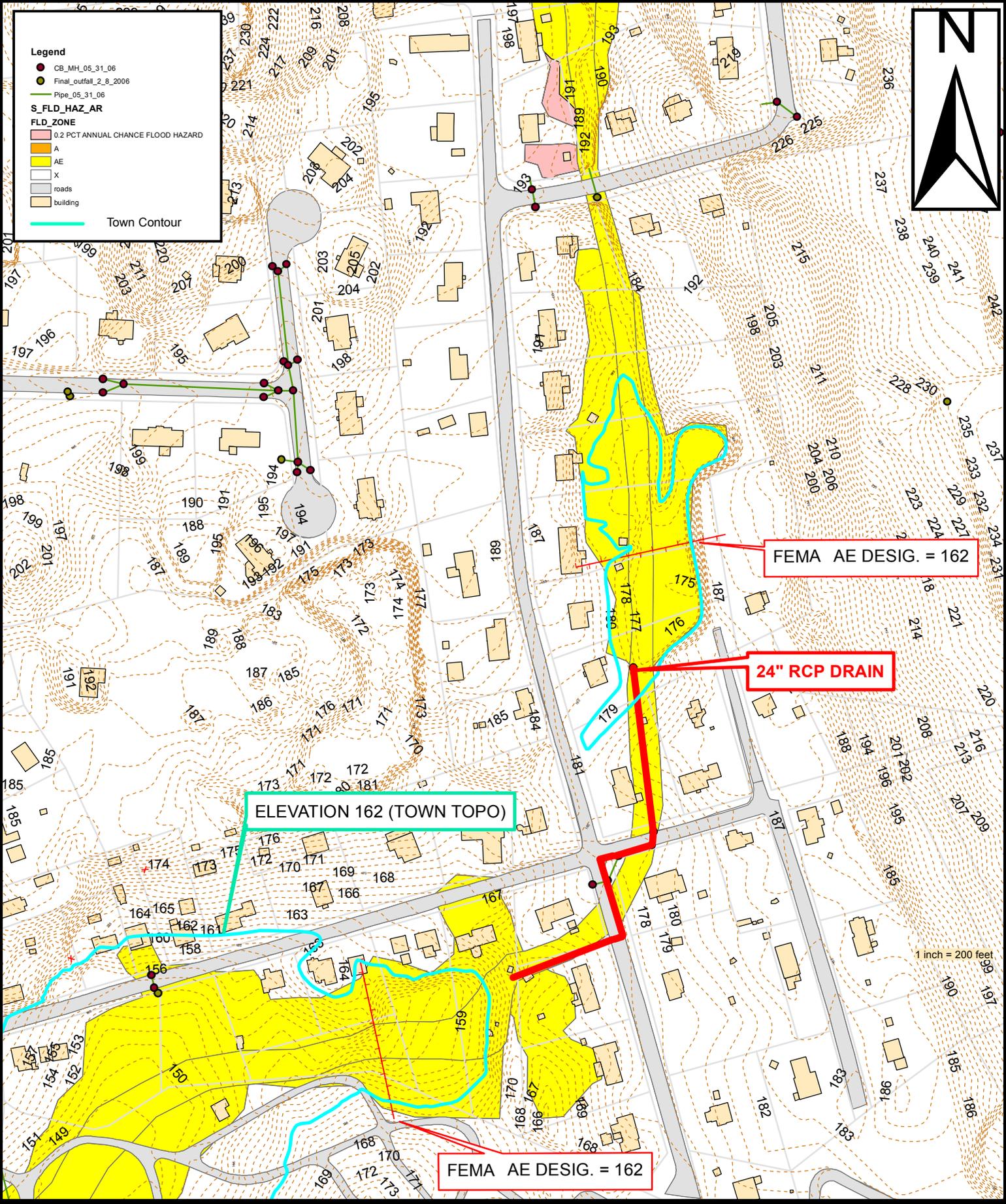


# FEMA CHECKPLOT MAP

LOCATION THREE - PNL 25005C0102G - TEN MILE RIVER AT NORTH WASHINGTON (RTE 1)/PARK ST

NORTH ATTLEBOROUGH D.P.W.

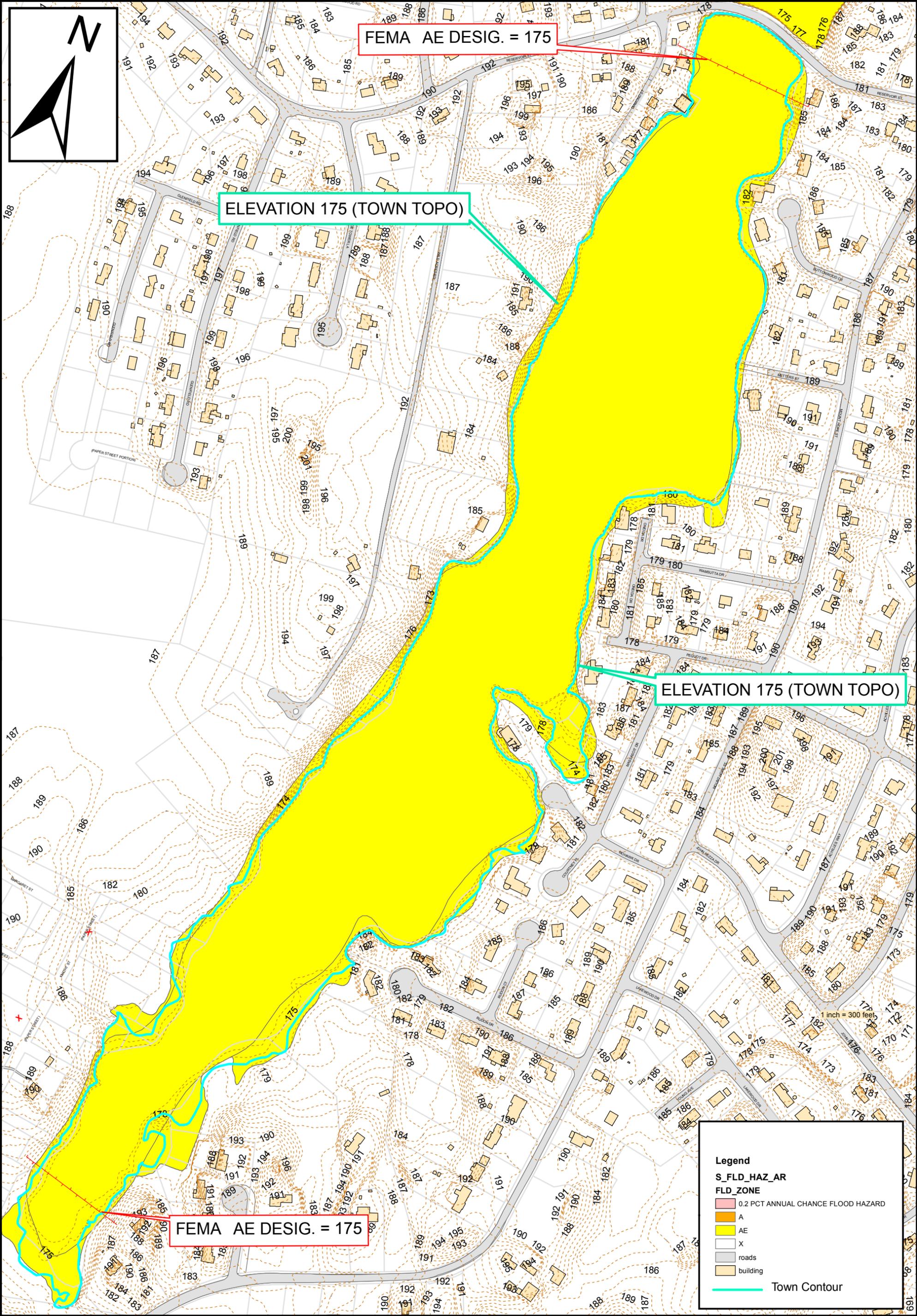




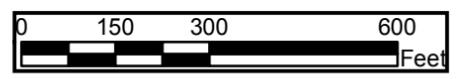
**FEMA CHECKPLOT MAP**  
 LOCATION FOUR - PNL 25005C0102G - MASON PARK BROOK AT SPRING ST NEAR MT HOPE CEMETERY

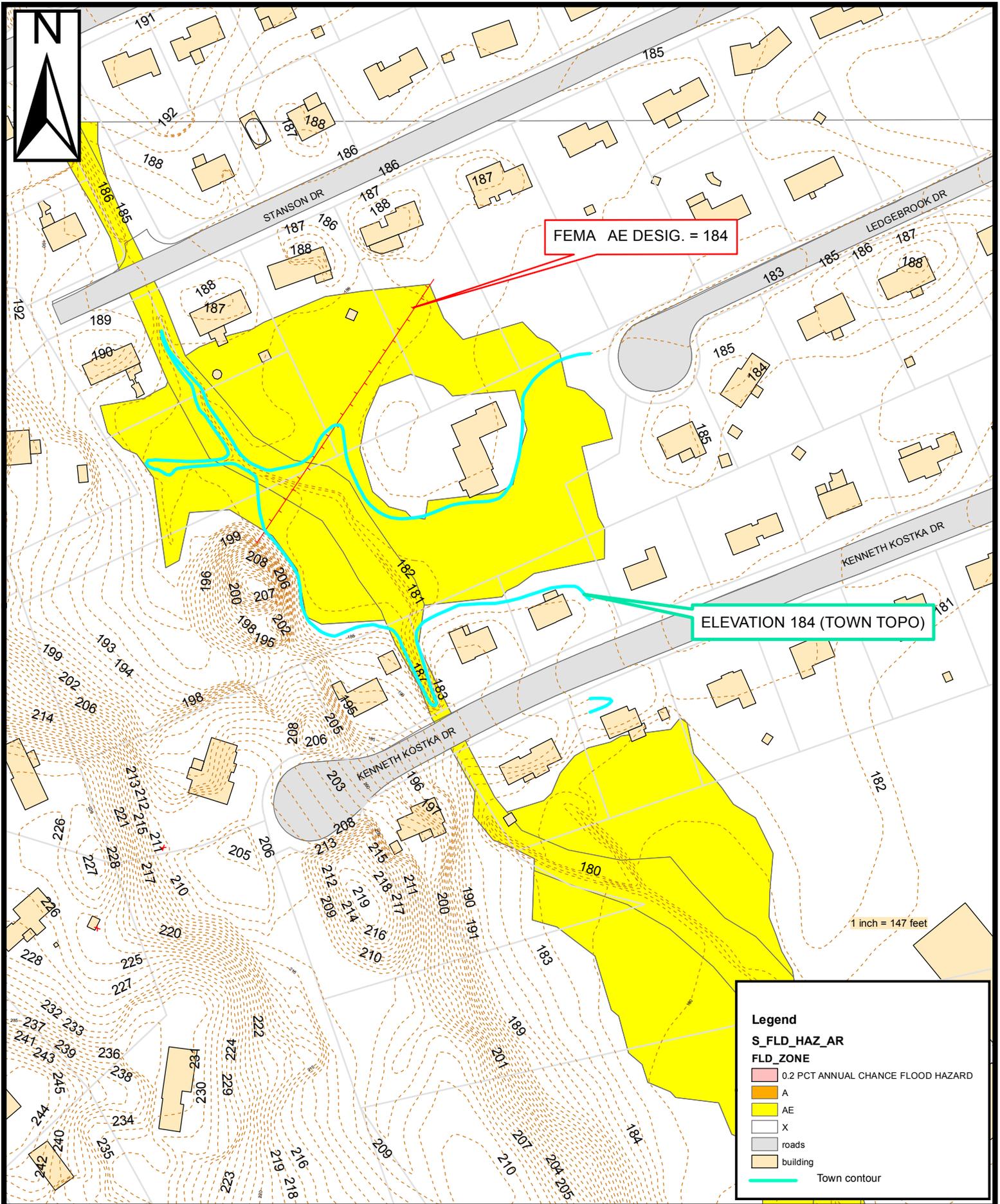
**NORTH ATTLEBOROUGH D.P.W.**





**FEMA CHECKPLOT MAP**  
**LOCATION FIVE - PNL 25005C0104G - FALLS POND**  
**SOUTHERN PORTION (SOUTH OF RESERVOIR RD)**





# FEMA CHECKPLOT MAP

LOCATION SIX - PNL 25005C0106G - LANDRY AVE BROOK  
WEST OF KENNETH KOSTKA DR

NORTH ATTLEBOROUGH D.P.W.

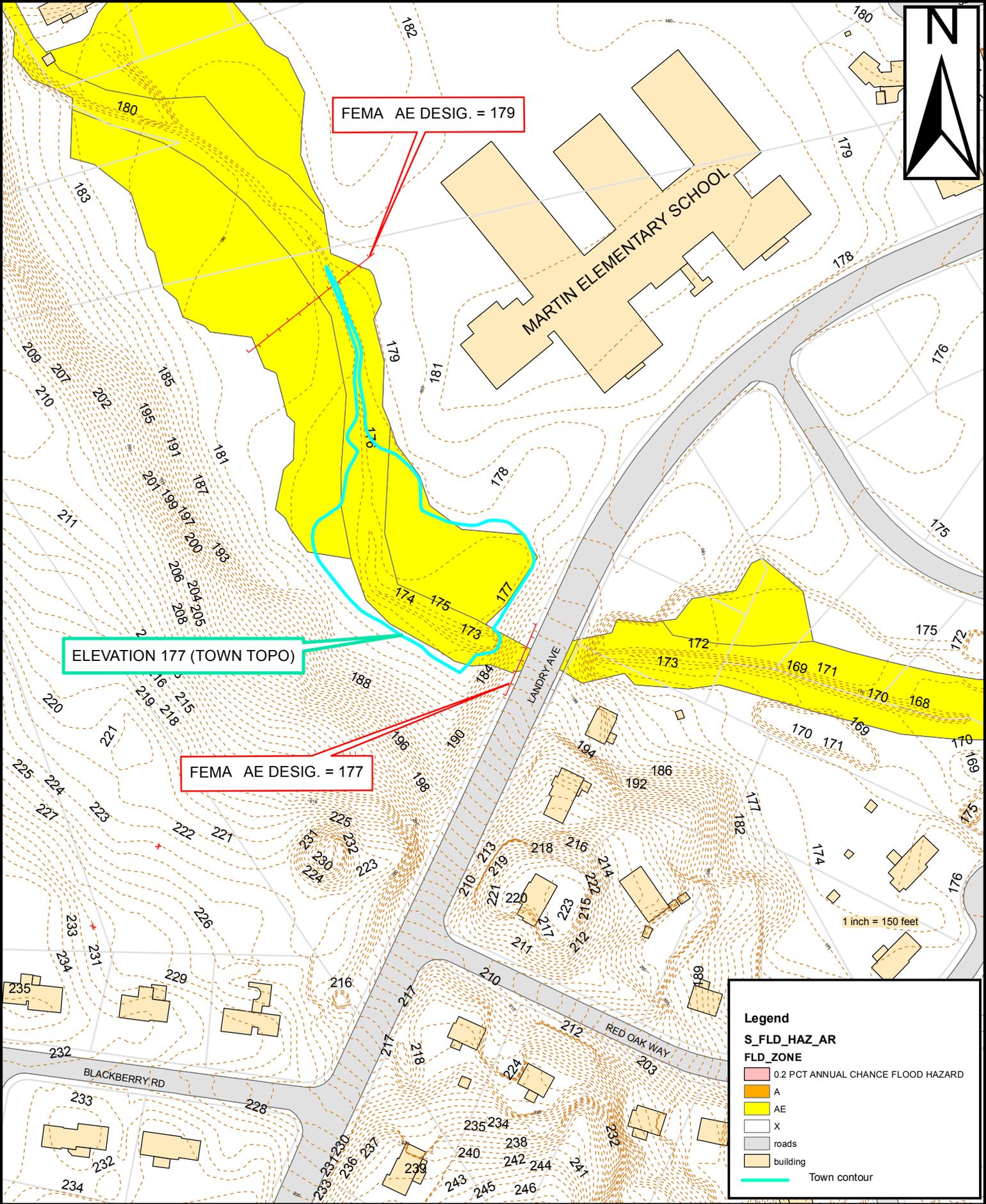
**Legend**

**S\_FLD\_HAZ\_AR**

**FLD\_ZONE**

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- A
- AE
- X
- roads
- building
- Town contour





FEMA AE DESIG. = 179

ELEVATION 177 (TOWN TOPO)

FEMA AE DESIG. = 177

**Legend**

**S\_FLD\_HAZ\_AR**

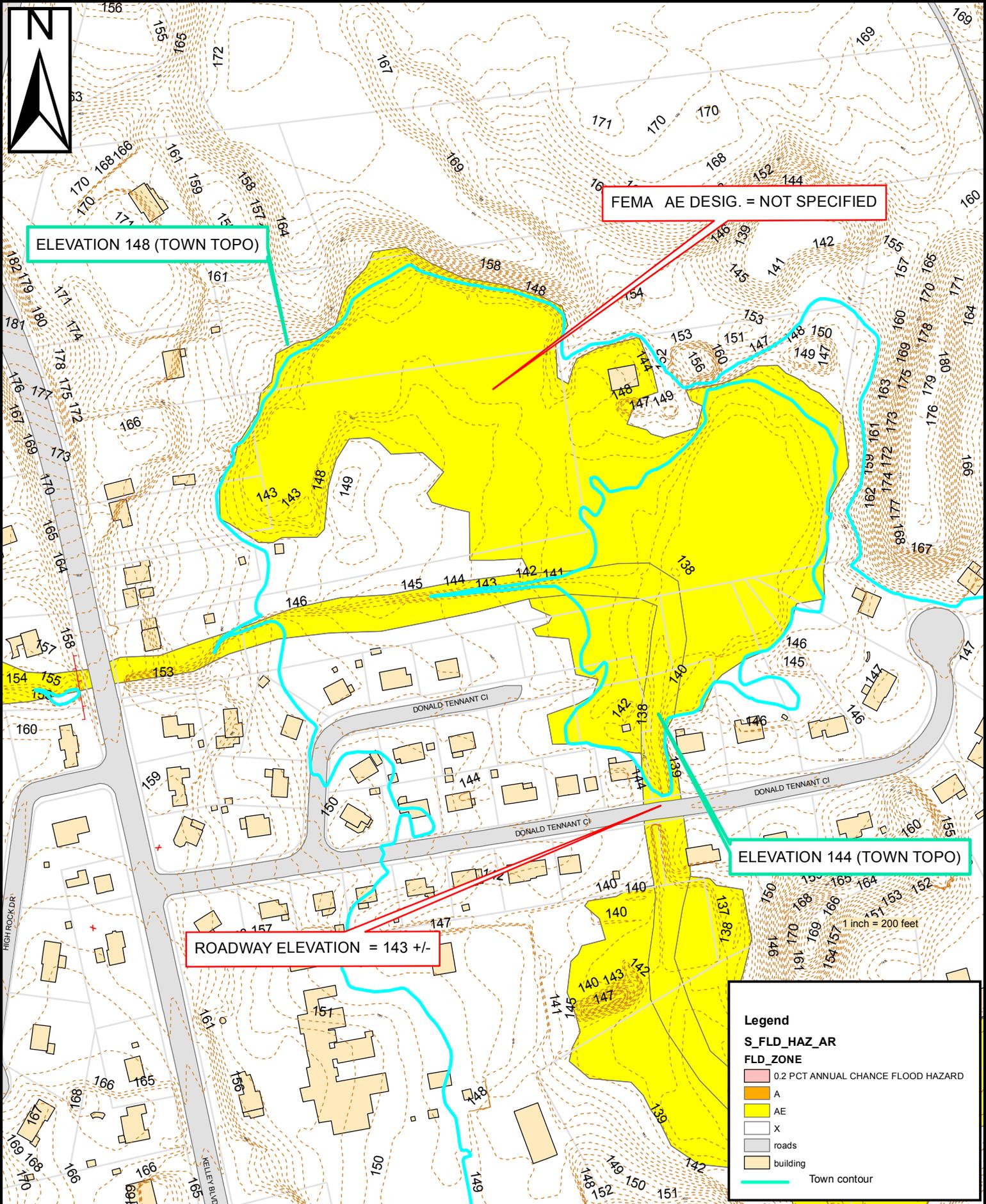
**FLD\_ZONE**

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- A
- AE
- X
- roads
- building
- Town contour

1 inch = 150 feet

**FEMA CHECKPLOT MAP**  
 LOCATION SEVEN - PNL 25005C0106G - LANDRY AVE BROOK  
 WEST OF MARTIN SCHOOL  
 NORTH ATTLEBOROUGH D.P.W.





FEMA AE DESIG. = NOT SPECIFIED

ELEVATION 148 (TOWN TOPO)

ROADWAY ELEVATION = 143 +/-

ELEVATION 144 (TOWN TOPO)

**Legend**

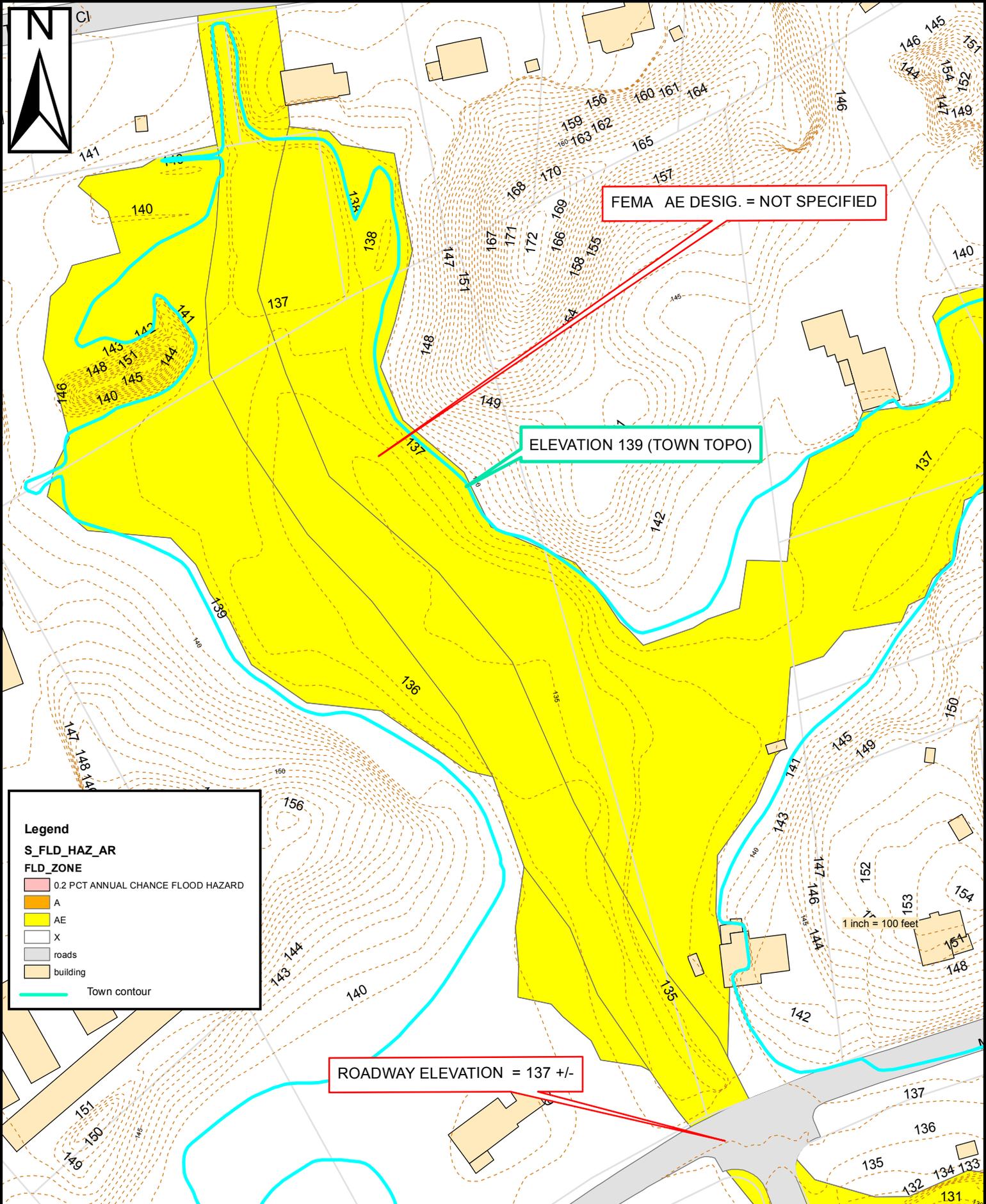
**S\_FLD\_HAZ\_AR**

**FLD\_ZONE**

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- A
- AE
- X
- roads
- building
- Town contour

**FEMA CHECKPLOT MAP**  
 LOCATION EIGHT - PNL 25005C0106G - LANDRY AVE BROOK  
 EAST OF KELLEY BLVD NORTH OF DONALD TENNANT CR  
 NORTH ATTLEBOROUGH D.P.W.





FEMA AE DESIG. = NOT SPECIFIED

ELEVATION 139 (TOWN TOPO)

ROADWAY ELEVATION = 137 +/-

**Legend**

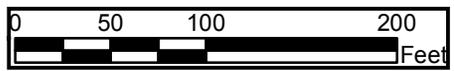
**S\_FLD\_HAZ\_AR**

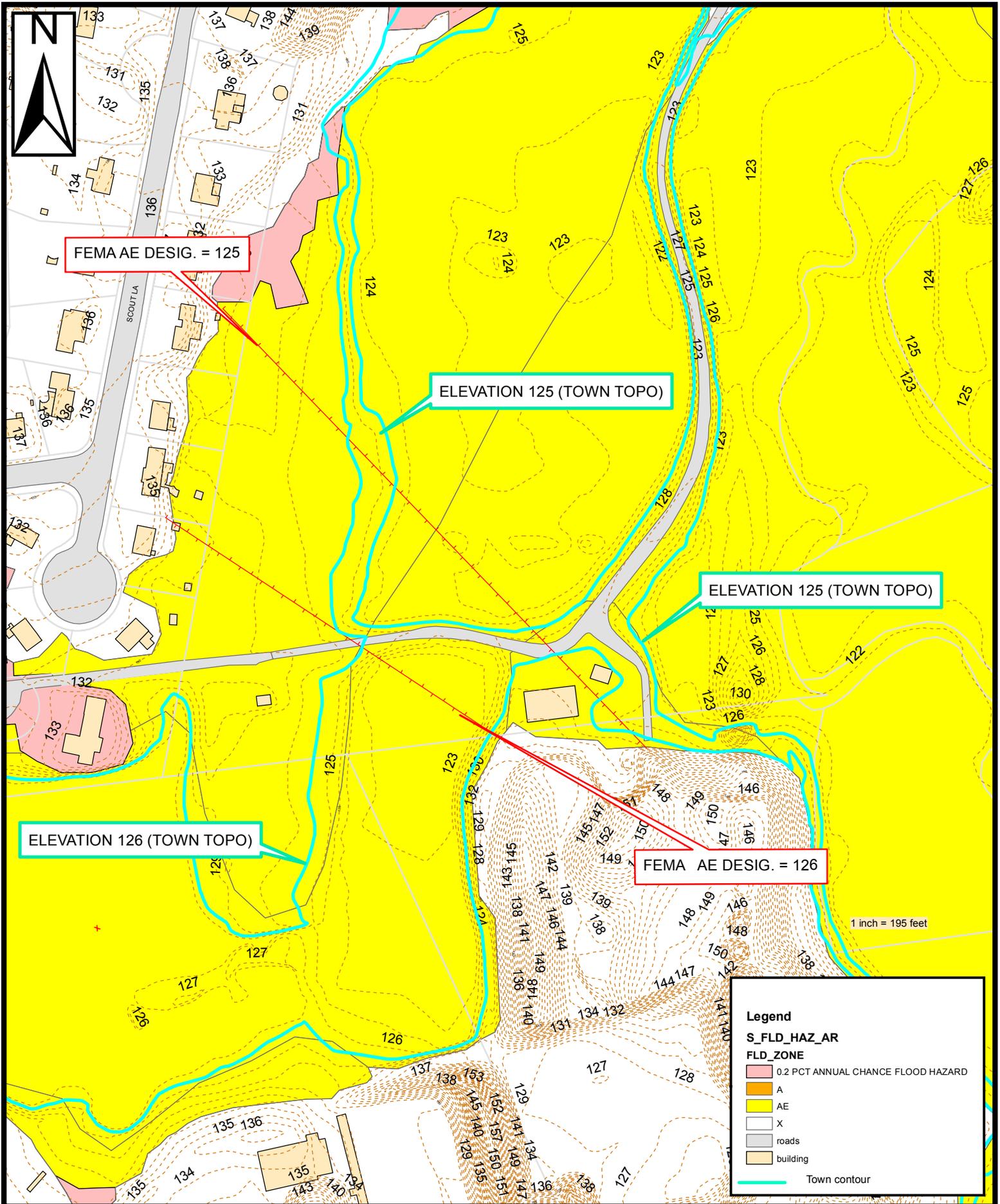
**FLD\_ZONE**

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- A
- AE
- X
- roads
- building
- Town contour

1 inch = 100 feet

**FEMA CHECKPLOT MAP**  
 LOCATION NINE - PNL 25005C0106G - LANDRY AVE BROOK  
 BETWEEN DONALD TENNANT CR AND BUNGAY RD  
 NORTH ATTLEBOROUGH D.P.W.





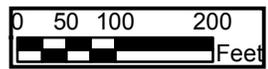
**FEMA CHECKPLOT MAP**  
 LOCATION TEN - PNL 25005C0106G - LANDRY AVE BROOK  
 AT KELLEY WATER TREATMENT FACILITY  
 NORTH ATTLEBOROUGH D.P.W.

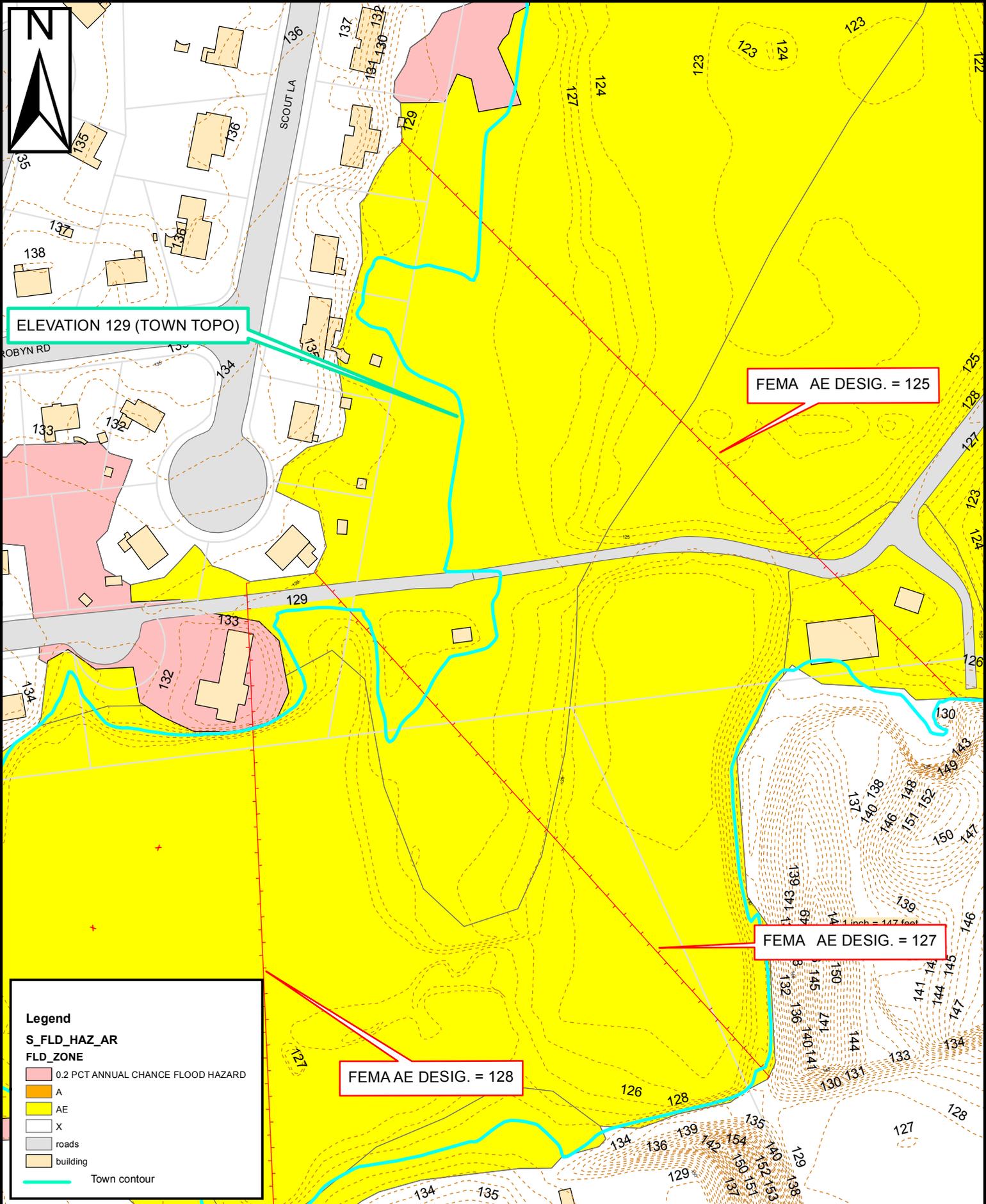
**Legend**

**S\_FLD\_HAZ\_AR**

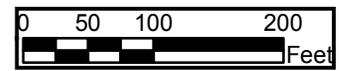
**FLD\_ZONE**

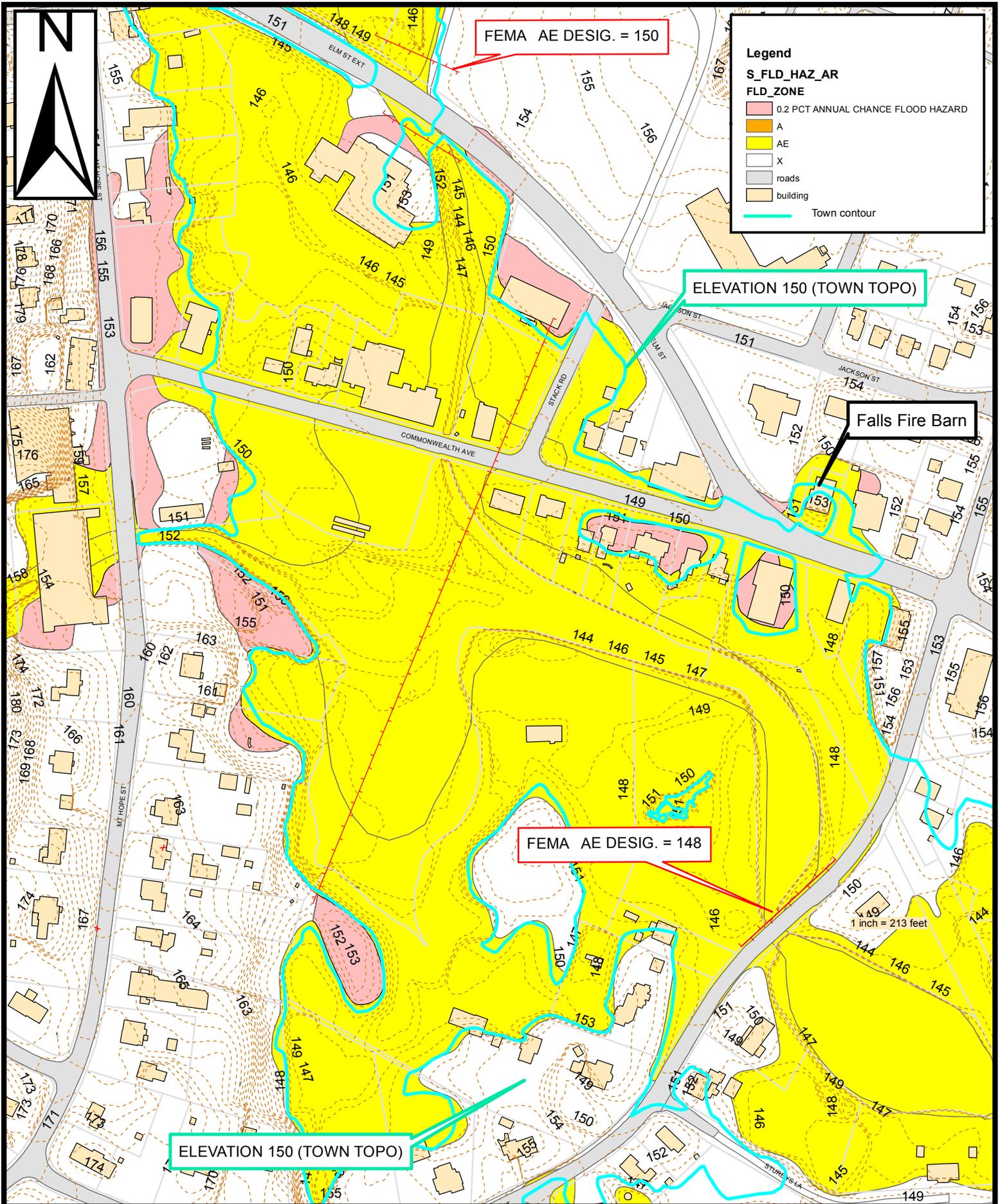
- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- A
- AE
- X
- roads
- building
- Town contour





**FEMA CHECKPLOT MAP**  
 LOCATION THIRTEEN - PNL 25005C0106G - LANDRY AVE BROOK  
 SOUTH OF MARY KENNEDY DR  
 NORTH ATTLEBOROUGH D.P.W.





**FEMA CHECKPLOT MAP**  
 LOCATION TWELVE - PNL 25005C0102G - TEN MILE RIVER  
 EAST OF FALLS POND DAM SOUTH OF COMMONWEALTH AVE  
 NORTH ATTLEBOROUGH D.P.W.



**November 7, 2014  
Town of North Attleborough,  
Bristol County, Massachusetts**



## **ATTACHMENT B**

### **Additional Information**

**TRUE DIMENSIONS OF THE FALLS POND DAM (1 pg)**

**103 COMMONWEALTH AVE - LOMA (2 pgs)**

**106 COMMONWEALTH AVE - LOMA (2 pgs)**

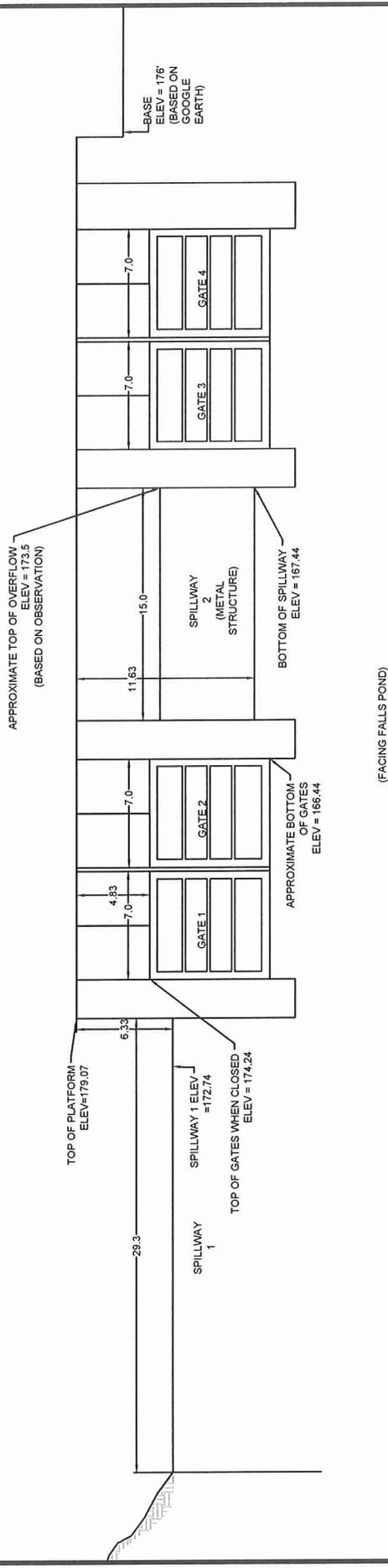
**131 EAST STREET - LETTER FROM RESIDENT (1 pg)**

**555 ELM STREET - LOMA (2 pgs)**

**481 MOUNT HOPE ST LOMA - (5 pgs)**

**32 ONEIDA DR - (10 pgs)**

**( 23 PAGES )**



(FACING FALLS POND)

- NOTES:
1. IT IS ASSUMED ALL GATES ARE IDENTICAL AND AT THE SAME ELEVATION.
  2. IT IS ASSUMED THAT THE ELEVATION AT THE BOTTOM OF THE GATES IS 1 FOOT BELOW THE BOTTOM SPILLWAY 2 ELEVATION, BASED ON OBSERVATION.
  3. THE ELEVATION AT THE TOP OF THE SPILLWAY 2 IS BETWEEN THE ELEVATION OF SPILLWAY 1 AND THE TOP OF THE GATES.
  4. FIELD WORK CONDUCTED JULY 12, 2013.

FIGURES 4-10: Falls Pond Dam Dimensions



CROSSMAN ENGINEERING

Civil • Transportation • Environmental • Site Planning • Surveying • Permitting

November 5, 2014

Mr. Mark C. Fisher, Town Administrator  
Town of North Attleboro  
43 South Washington Street  
North Attleboro, MA 02760

Re: Appeal of Portions of the Preliminary Flood Mapping Base Flood Depths  
**103 Commonwealth Avenue**  
Town of North Attleboro

Dear Mr. Fisher,

In accordance with the FEMA guidelines for individual property owners to submit an appeal to the proposed FEMA Base Flood Depths, we have prepared the attached Plan to justify our appeal of the Base Flood Depths for the property at 103 Commonwealth Avenue, North Attleboro, Massachusetts.

On-site surveys were performed on October 30, 2014 to determine an accurate elevation of the subject property and based upon this recent survey, we conclude that the Base Flood Depth delineated on the Preliminary FEMA Map No. 25005C01G is "Technically Incorrect" because the application of the methodology used by FEMA in delineating the horizontal extent and depth of the AE limits was based on insufficient and poor quality elevation data on the subject site.

The attached Plan provides an accurate depiction of the surface elevations and the corresponding corrected AE limit of base flooding. This delineation is based upon the AE elevation determined by FEMA and accurate surveys of the site.

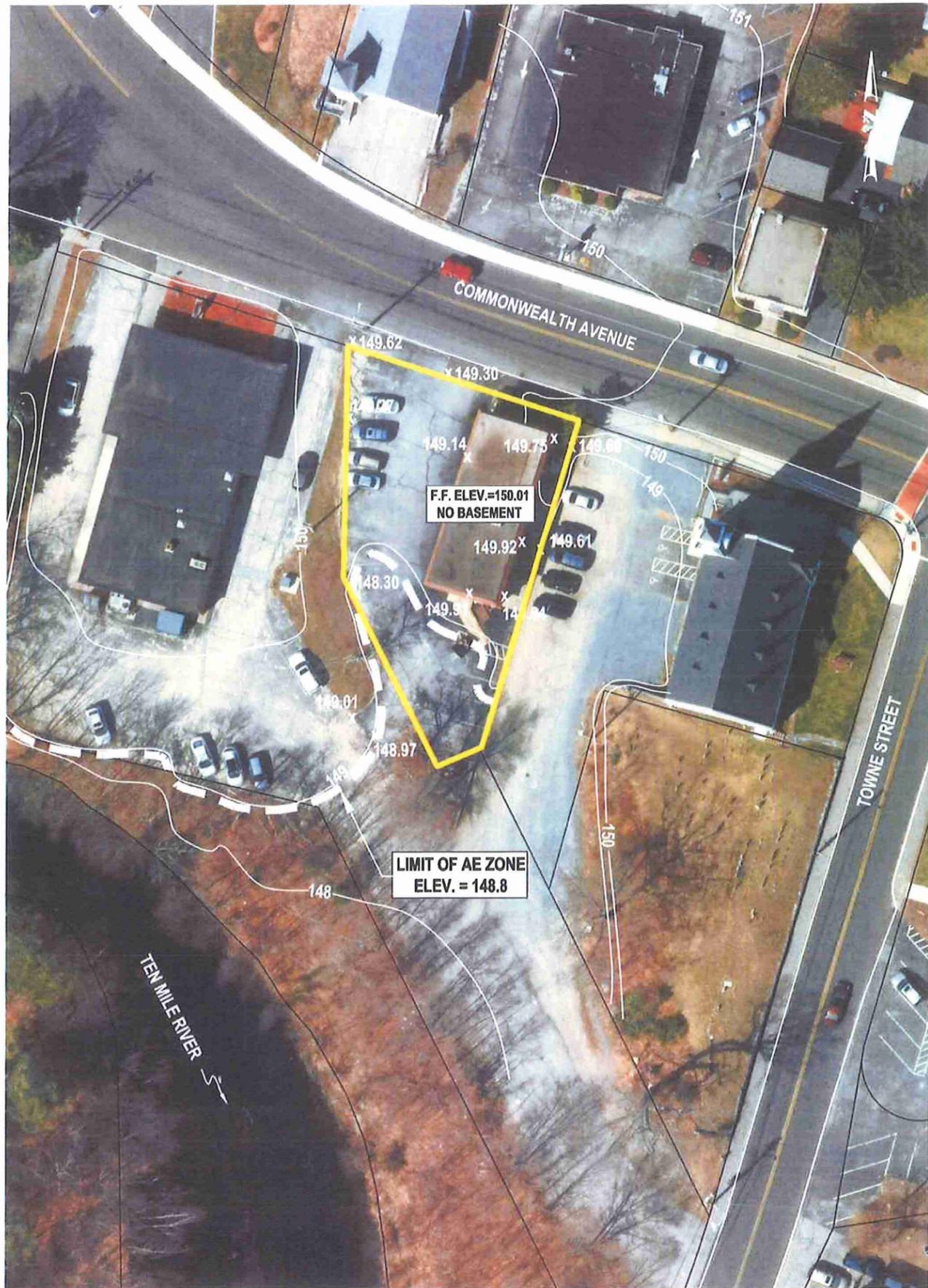
We appreciate your consideration of the appeal and understand that that the Town will forward this appeal to the appropriate FEMA official. If you have any questions or concerns, please contact me at 508-695-1700 (office), 401-556-4699 (cell) or via email at [steven.cabral@crossmaneng.com](mailto:steven.cabral@crossmaneng.com).

Sincerely,

CROSSMAN ENGINEERING, INC.

Steven M. Cabral

103 Commonwealth Avenue, North Attleboro, MA 02763 508-695-1700  
151 Centerville Road, Warwick, RI 02886 401-738-5660

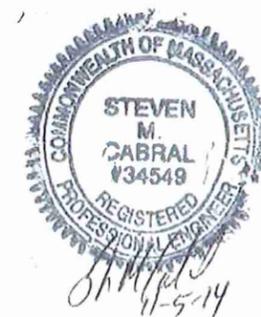


**NOTES**

1. SPOT GRADES MEASURED BY CROSSMAN ENGINEERING ON OCTOBER 28, 2014. VERTICAL DATUM OF SPOT GRADES IS NAVD 88 ESTABLISHED USING GPS-RTK NETWORK CONTROL.
2. PRELIMINARY PROPOSED FEMA AE (1% ANNUAL CHANCE) FLOOD ELEVATION = 148.8 (FEMA CROSS SECTION DX)  
  
SOURCE: PRELIMINARY FEMA MAP No. 25005C0102G AND FLOOD INSURANCE STUDY, BRISTOL COUNTY, VOLUME 2 OF 4, PRELIMINARY JUNE 15, 2014. TEN MILE RIVER CROSS SECTIONS DX AND DW, 92,145 FEET AND 91,603 FEET, RESPECTIVELY, ABOVE THE CONFLUENCE WITH THE SEEKONK RIVER.
3. BASE MAPPING PROVIDED BY TOWN OF NORTH ATTLEBORO, MA.

**BASIS FOR APPEAL**

THE BASE FLOOD DEPTH DELINEATED ON PRELIMINARY FEMA MAP No. 25005C0102G IS **TECHNICALLY INCORRECT** BECAUSE THE APPLICATION OF THE METHODOLOGY USED IN DELINEATION OF THE HORIZONTAL EXTENT OF THE AE LIMITS WAS BASED ON INSUFFICIENT AND POOR QUALITY ELEVATION DATA ON THE SUBJECT SITE.



CERTIFICATION OF REVISED  
AE ZONE EXTENT



CERTIFICATION OF TOPOGRAPHICAL  
SPOT ELEVATIONS

 <p><b>CROSSMAN ENGINEERING</b> Rhode Island 151 Centerville Road Warwick, RI 02886 Phone: (401) 738-5680 Email: cel@crossmaneng.com</p> <ul style="list-style-type: none"> <li>• Civil</li> <li>• Transportation</li> <li>• Environmental</li> <li>• Site Planning</li> <li>• Landscape Architecture</li> <li>• Land Surveying</li> </ul> <p>103 Commonwealth Avenue North Attleboro, MA 02763 Phone: (508) 695-1700</p>	<p><b>LOCATION:</b> Plat Map 16 Lots 26 and 152 103 Commonwealth Avenue North Attleboro, MA</p>	<p><b>APPEAL OF PRELIMINARY FLOOD DESIGNATION</b></p>
		<p><b>SCALE: 1"=50'</b></p>
		<p><b>DATE: November 2014</b></p>



## CROSSMAN ENGINEERING

Civil • Transportation • Environmental • Site Planning • Surveying • Permitting

November 5, 2014

Mr. Mark C. Fisher, Town Administrator  
Town of North Attleboro  
43 South Washington Street  
North Attleboro, MA 02760

Re: Appeal of Portions of the Preliminary Flood Mapping Base Flood Depths  
**106 Commonwealth Avenue**  
Town of North Attleboro

Dear Mr. Fisher,

In accordance with the FEMA guidelines for individual property owners to submit an appeal to the proposed FEMA Base Flood Depths, we have prepared the attached Plan to justify an appeal of the Base Flood Depths for the property at 106 Commonwealth Avenue, North Attleboro, Massachusetts.

On-site surveys were performed on October 30, 2014 to determine an accurate elevation of the subject property and based upon this recent survey, we conclude that the Base Flood Depth delineated on the Preliminary FEMA Map No. 25005C01G is "Technically Incorrect" because the application of the methodology used by FEMA in delineating the horizontal extent and depth of the AE limits was based on insufficient and poor quality elevation data on the subject site.

The attached Plan provides an accurate depiction of the surface elevations and the corresponding corrected AE limit of base flooding. This delineation is based upon the AE elevation determined by FEMA and accurate surveys of the site.

We appreciate your consideration of the appeal and understand that that the Town will forward this appeal to the appropriate FEMA official. If you have any questions or concerns, please contact me at 508-695-1700 (office), 401-556-4699 (cell) or via email at [steven.cabral@crossmaneng.com](mailto:steven.cabral@crossmaneng.com).

Sincerely,

CROSSMAN ENGINEERING, INC.

Steven M. Cabral



**NOTES**

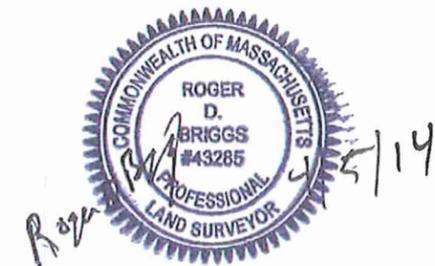
1. SPOT GRADES MEASURED BY CROSSMAN ENGINEERING ON OCTOBER 28, 2014. VERTICAL DATUM OF SPOT GRADES IS NAVD 88 ESTABLISHED USING GPS-RTK NETWORK CONTROL.
  2. PRELIMINARY PROPOSED FEMA AE (1% ANNUAL CHANCE) FLOOD ELEVATION = 148.8 (FEMA CROSS SECTION DX)
- SOURCE: PRELIMINARY FEMA MAP No. 25005C0102G AND FLOOD INSURANCE STUDY, BRISTOL COUNTY, VOLUME 2 OF 4, PRELIMINARY JUNE 15, 2014. TEN MILE RIVER CROSS SECTIONS DX AND DW, 92,145 FEET AND 91,603 FEET, RESPECTIVELY, ABOVE THE CONFLUENCE WITH THE SEEKONK RIVER.
3. BASE MAPPING PROVIDED BY TOWN OF NORTH ATTLEBORO, MA.

**BASIS FOR APPEAL**

THE BASE FLOOD DEPTH DELINEATED ON PRELIMINARY FEMA MAP No. 25005C0102G IS **TECHNICALLY INCORRECT** BECAUSE THE APPLICATION OF THE METHODOLOGY USED IN DELINEATION OF THE HORIZONTAL EXTENT OF THE AE LIMITS WAS BASED ON INSUFFICIENT AND POOR QUALITY ELEVATION DATA ON THE SUBJECT SITE.



CERTIFICATION OF REVISED  
AE ZONE EXTENT



CERTIFICATION OF TOPOGRAPHICAL  
SPOT ELEVATIONS

**CROSSMAN ENGINEERING**  
Rhode Island  
151 Centerville Road  
Warwick, RI 02886  
Phone: (401) 738-5660  
Email: cei@crossmaneng.com

- Civil
- Transportation
- Environmental
- Site Planning
- Landscape Architecture
- Land Surveying

Massachusetts  
103 Commonwealth Avenue  
North Attleboro, MA 02763  
Phone: (508) 695-1700

**LOCATION:**  
Plat Map 15 Lot 107  
106 Commonwealth Avenue  
North Attleboro, MA

**APPEAL OF PRELIMINARY  
FLOOD DESIGNATION**

**SCALE: 1"=50'**

**DATE: November 2014**

Patricia L. Dolan  
131 East Street  
North Attleborough MA 02760  
508-643-0593



November 4, 2014

Federal Emergency Management Agency Officials  
Department of Homeland Security  
Washington DC 20472

To Whom It May Concern:

I strongly disagree with the proposed new FEMA Flood Zone Maps in the town of North Attleborough, (Bristol County) Massachusetts. A portion of my home, located at 131 East St. in North Attleborough is now being classified as being located in an AE Flood zone, which will require the purchase of Federal flood insurance. On previous flood zone maps, the flood zone did not touch my property at all and I can not fathom that it would now be located in the flood zone. The AE flood zone now encompasses my property, and a portion of my house, which will require flood insurance.

Please re-examine the proposed area, as I strongly disagree with the proposed flood map and in the eighteen years I have owned my home, I have never had water from the river on my property, never mind up to my house. I would like to know why FEMA has decided that the area could now flood. The house was built approximately 100 years ago and I do not have, and as far as I know, have never had a flooding problem. I do not feel that there is now a flood hazard in an area where the previous flood map put us outside a zone "x" in an area of "minimal flood hazard." Please reconsider this portion of the map. Thank you for your consideration.

Sincerely,

Patricia Dolan



CROSSMAN ENGINEERING

Civil • Transportation • Environmental • Site Planning • Surveying • Permitting

November 5, 2014

Mr. Mark C. Fisher, Town Administrator  
Town of North Attleboro  
43 South Washington Street  
North Attleboro, MA 02760

Re: Appeal of Portions of the Preliminary Flood Mapping Base Flood Depths  
**555 Elm Street**  
Town of North Attleboro

Dear Mr. Fisher,

In accordance with the FEMA guidelines for individual property owners to submit an appeal to the proposed FEMA Base Flood Depths, we have prepared the attached Plan to justify an appeal of the Base Flood Depths for the property at 555 Elm Street, North Attleboro, Massachusetts.

On-site surveys were performed on October 30, 2014 to determine an accurate elevation of the subject property and based upon this recent survey, we conclude that the Base Flood Depth delineated on the Preliminary FEMA Map No. 25005C01G is "Technically Incorrect" because the application of the methodology used by FEMA in delineating the horizontal extent and depth of the AE limits was based on insufficient and poor quality elevation data on the subject site.

The attached Plan provides an accurate depiction of the surface elevations and the corresponding corrected AE limit of base flooding. This delineation is based upon the AE elevation determined by FEMA and accurate surveys of the site.

We appreciate your consideration of the appeal and understand that that the Town will forward this appeal to the appropriate FEMA official. If you have any questions or concerns, please contact me at 508-695-1700 (office), 401-556-4699 (cell) or via email at [steven.cabral@crossmaneng.com](mailto:steven.cabral@crossmaneng.com).

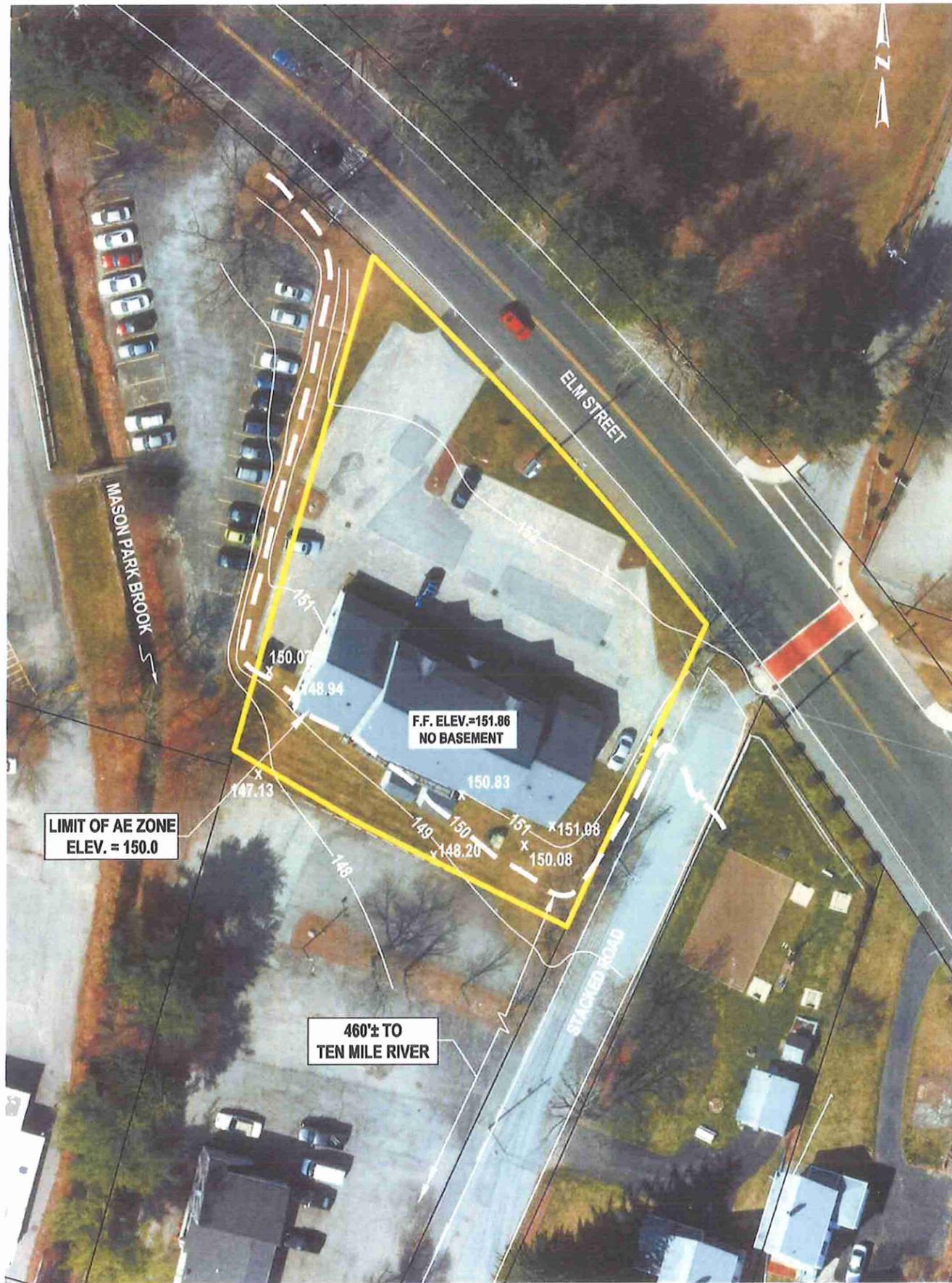
Sincerely,

CROSSMAN ENGINEERING, INC.



Steven M. Cabral

103 Commonwealth Avenue, North Attleboro, MA 02763 508-695-1700  
151 Centerville Road, Warwick, RI 02886 401-738-5660



**NOTES**

1. SPOT GRADES MEASURED BY CROSSMAN ENGINEERING ON OCTOBER 28, 2014. VERTICAL DATUM OF SPOT GRADES IS NAVD 88 ESTABLISHED USING GPS-RTK NETWORK CONTROL.
2. PRELIMINARY PROPOSED FEMA AE (1% ANNUAL CHANCE) FLOOD ELEVATION = 150.00  
  
SOURCE: PRELIMINARY FEMA MAP No. 25005C0102G, PRELIMINARY MAY 23, 2014.
3. BASE MAPPING PROVIDED BY TOWN OF NORTH ATTLEBORO, MA.
4. SITE LOCATION: NORTH OF THE TEN MILE RIVER AT THE CONFLUENCE OF MASON PARK BROOK AND THE TEN MILE RIVER.

**BASIS FOR APPEAL**

THE BASE FLOOD DEPTH DELINEATED ON PRELIMINARY FEMA MAP No. 25005C0102G IS **TECHNICALLY INCORRECT** BECAUSE THE APPLICATION OF THE METHODOLOGY USED IN DELINEATION OF THE HORIZONTAL EXTENT OF THE AE LIMITS WAS BASED ON INSUFFICIENT AND POOR QUALITY ELEVATION DATA ON THE SUBJECT SITE.



CERTIFICATION OF REVISED AE ZONE EXTENT



CERTIFICATION OF TOPOGRAPHICAL SPOT ELEVATIONS

 <p><b>CROSSMAN ENGINEERING</b> Rhode Island 151 Centerville Road Warwick, RI 02886 Phone: (401) 738-5660 Email: cei@crossmaneng.com</p> <ul style="list-style-type: none"> <li>• Civil</li> <li>• Transportation</li> <li>• Environmental</li> <li>• Site Planning</li> <li>• Landscape Architecture</li> <li>• Land Surveying</li> </ul> <p>Massachusetts 103 Commonwealth Avenue North Attleboro, MA 02763 Phone: (508) 695-1700</p>	<p><b>LOCATION:</b> Plat Map 15 Lot 109 555 Elm Street North Attleboro, MA</p>	<p><b>APPEAL OF PRELIMINARY FLOOD DESIGNATION</b></p>
		<p><b>SCALE: 1"=50'</b></p>
		<p><b>DATE: November 2014</b></p>

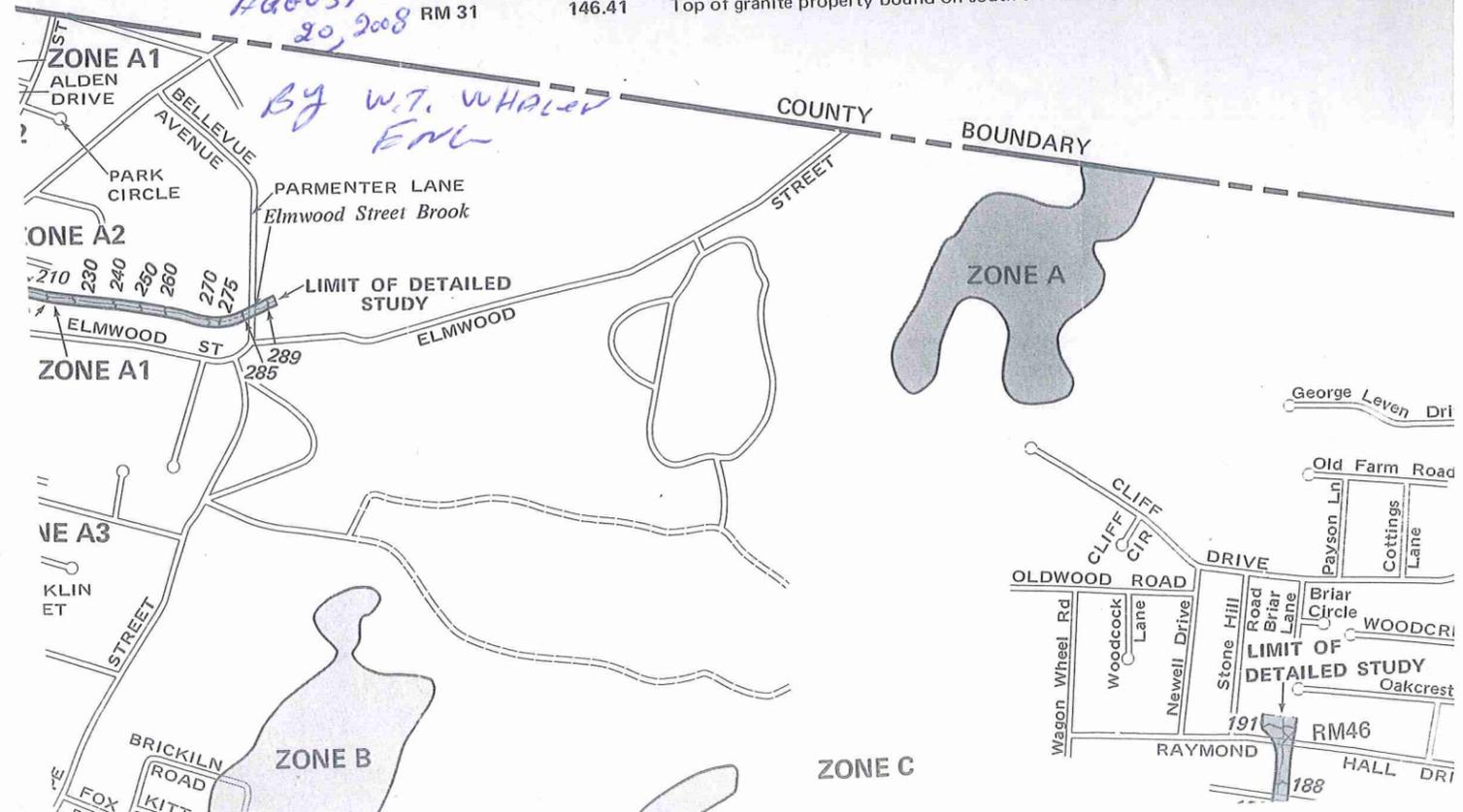
②  
OF ⑤

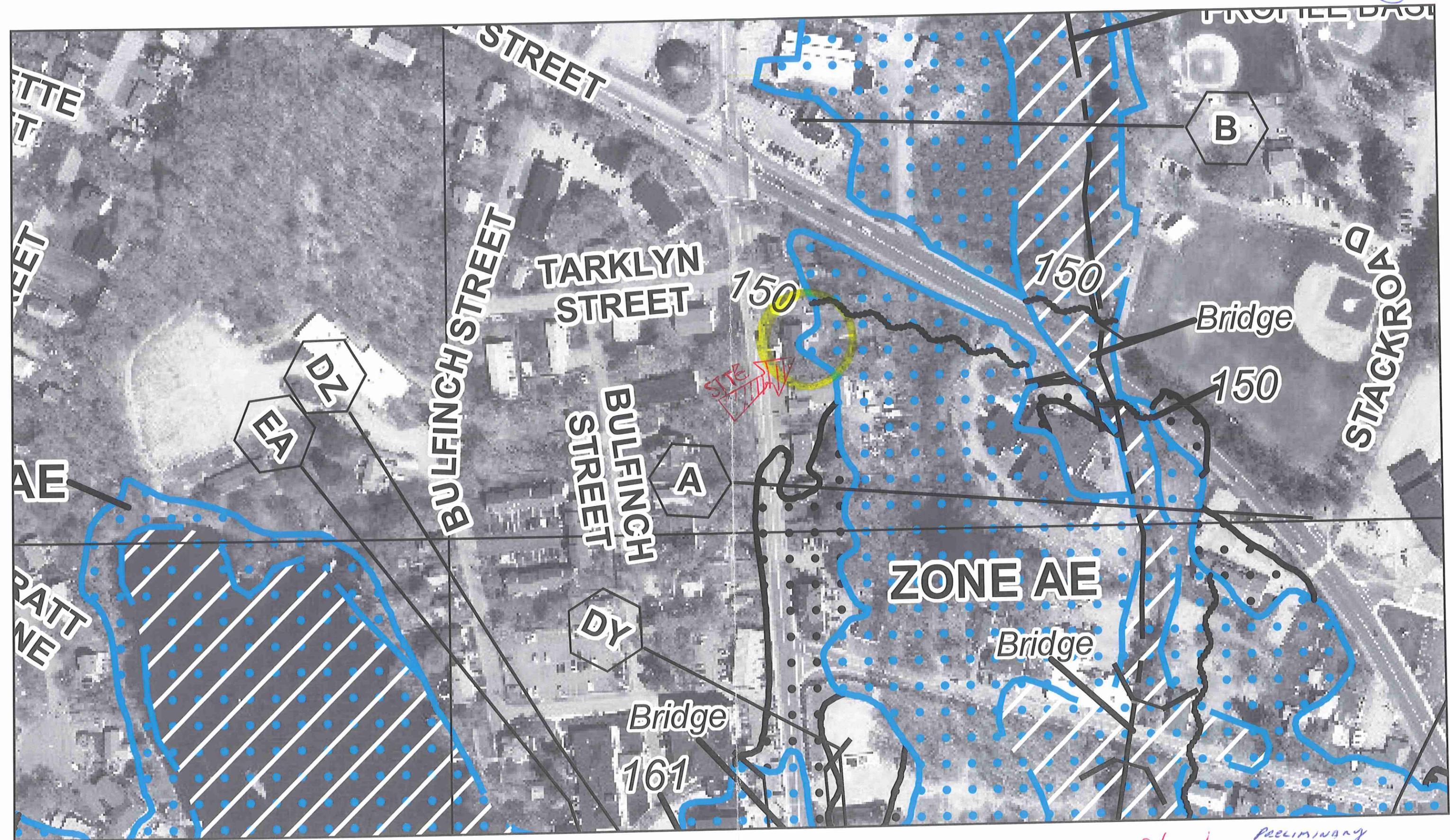
**ELEVATION REFERENCE MARKS**  
DESCRIPTION OF LOCATIONS

REFERENCE MARKS	ELEVATION FEET (NGVD)	DESCRIPTION OF LOCATIONS
RM 16	142.21	A chiseled square on the downstream side of an old railroad bridge on the east deck su bridge over Ten Mile River.
RM 17	153.42	U.S. Coast & Geodetic Survey disk set in a granite bridge abutment located in the south railroad bed, 4.2 feet south of last post of guardrail, 26.6 feet west of street, 49.6 fe
RM 18	148.06	A chiseled square in the center of the downstream headwall of the Sturdy Lane bridge ove
RM 19	146.74	A drill hole painted red in an iron plate 3 feet downstream of the downstream headwall Ten Mile River.
RM 20	151.11	Top of hydrant spindle located in front of house No. 28 Commonwealth Avenue.
RM 21	155.10	Top of hydrant spindle located about 100 feet north of Mount Hope Street culver
RM 22	178.72	A U.S. Coast & Geodetic Survey state survey disk stamped "M1AP-178.72" set flush in feet west of face of curb, 8.6 feet southwest of NAEL pole 500/63 on east side of road.
RM 23	180.54	A chiseled square on top of the upstream east channel wall of the Chestnut Street bridge o
RM 24	184.06	A chiseled square on center of downstream headwall on East Washington Street bridge o Street.
RM 25	183.32	Top of hydrant spindle located on Franklin Avenue approximately 50 feet east of inters
RM 26	194.24	Top of hydrant spindle located on the south side of Whiting Street about 100 feet south of
RM 27	192.85	A drill hole in the center of a granite highway bound located on the south side of Moran St
RM 28	142.44	A cut cross on hydrant cap bolt located on Kelley Boulevard near utility pole No. 1389/17.
RM 29	129.46	A cut cross on hydrant cap bolt located in front of pumping station off Mary Kenne Boulevard.
RM 30	140.34	Top of hydrant spindle located in front of house No. 52 Horace Darling Drive.
RM 31	146.41	Top of granite property bound on south side of Greenwood Lake water control structure.

Closed ELEVATION  
RUN 10/15/99  
FROM BENCH MARK  
20 to TOP  
OF GRANITE Bound  
OF northerly side  
OF Elm ST.  
Located approx.  
200' South East  
Corner of AP  
Lot 1, ELEVATION  
148.31 NGVD  
REF  
MODIFIED SITE

PLAN  
NORTH BOUND  
REALETY LLC  
AUGUST  
20, 2008





481 MT. HOPE ST. N.A.

5/23/14

preliminary  
5/23/14

**Office**

14-106

6 November 2014

④  
OPS

**INPUT**

Geographic, NAD83  
Vertical - NGVD29 (Vertcon94), U.S. Feet

**OUTPUT**

Geographic, NAD83  
Vertical - NAVD88, U.S. Feet

---

**481 Mt. Hope NA**

1/1

Latitude: 41.97321  
Longitude: 71.31827  
Elevation/Z: 160

Latitude: 41.973210000  
Longitude: 71.318270000  
Elevation/Z: 159.226

-.77

---

Remark: Top of existing foundation (master BM RM20)

5 of 5

Standard Advanced Annotation Active Tool: Find Coordinates

Topo Imagery Topo Imagery Hydro-NHD Hill Shade Blank

Coordinates

DD: 41.97321° -71.31827°  
DMS: 41° 58' 23.541" N 71° 19' 05.784" W  
USNG: 19T CG 07919 49400 (NAD 83)  
MGRS: 19TCG0791949400

Zoom To More

PANEL 25021C0427E eff. 7/17/2012

PANEL 25005C0102F eff. 7/7/2009

Click to find coordinates.

Zone/AE

0 30 60ft

41° 58' 22.989" N 71° 19' 06.460" W USNG: 19T CG 07903 49384 (NAD 83) Scale 1:10000

The National Map

FAQ | Accessibility | FOIA | Privacy | Policies and Notices

1  
OF 5

Density/Parking Table

Existing Density Table		Existing Parking	
Parking/Travel Area - Paved:	6,514 ± sq.ft. 35.0%	Stalls 1,2,5 & 6	9' x 20'
Building Coverage:	2,226 ± sq.ft. 12.0% (40% Max.)	Stalls 3 & 4	10' x 20'
Open Space:	9,860 ± sq.ft. 53.0% (40% Min.)	Stalls 7-13	10' x 18'
Total Lot Area:	18,600 ± sq.ft. 100.0%	Stall 14	12' x 20'
		Total Parking Stalls:	14

**BENCHMARK:**  
 TOP OF GRANITE BOUND ON NORTHERLY SIDE OF ELM STREET LOCATED APPROXIMATELY 200' SOUTH EAST OF BOUND FOUND IN SOUTH EASTERLY CORNER OF AP LOT #1.  
 ELEVATION = 148.31' (NGVD) *From RM 20 (1929)*

See PG. 2

Proposed Flood BFE 150 (NAD 1983) PG. 3

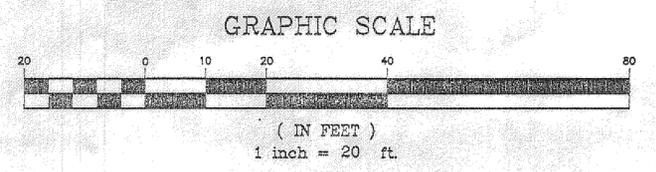
EXISTING FLA ELEVATION 151.0 (NGVD)

CONVERSION TO NAD 83 151.0 - .77 = 150.23 See PG. 4

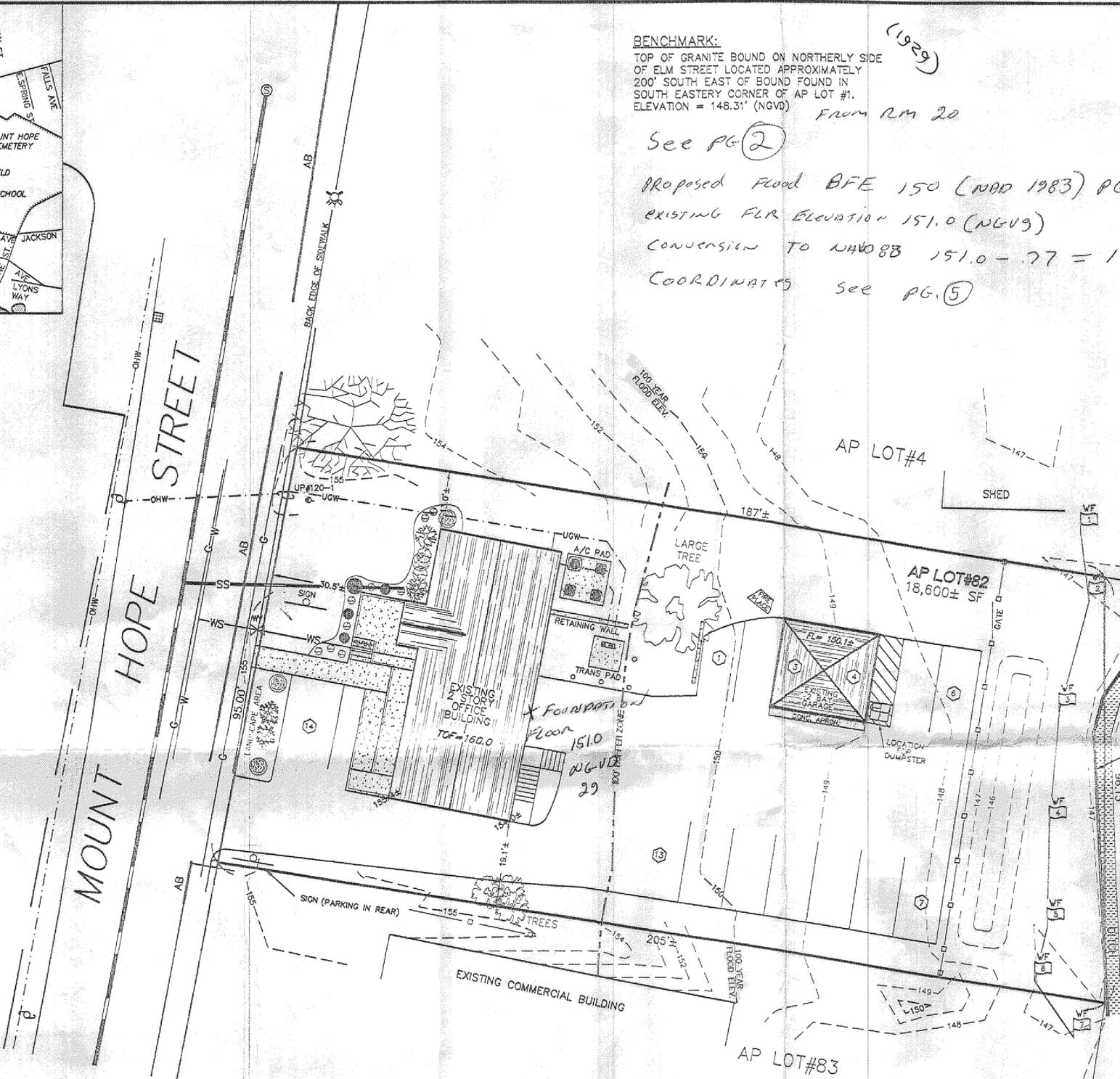
COORDINATES See PG. 5

Modified Site Plan of Land  
 in  
 NORTH ATTLEBOROUGH, MA.  
 prepared for  
**NORTH BOUND REALTY LLC**  
 prepared by  
 W.T.WHALEN ENGINEERING CO.  
 39 ELM STREET  
 NORTH ATTLEBOROUGH MA.  
 (508) 699-4604

August 20, 2008 Scale: 1" = 20'



**Note:**  
 The location of underground utilities are approximate only and are taken from existing record data, plans and/or field observations. The contractor shall be responsible for verifying locations in the field prior to excavation.  
 CALL DIGSAFE 1-888-344-7233



DESCRIPTION KEY

- |  |                        |  |                             |
|--|------------------------|--|-----------------------------|
|  | SEWER MANHOLE          |  | EXISTING CONTOUR            |
|  | PARKING                |  | PROPOSED CONTOUR            |
|  | CATCH BASIN            |  | GAS LINE                    |
|  | GATE VALVE             |  | WATER LINE                  |
|  | FIRE HYDRANT           |  | OVERHEAD WIRE               |
|  | UTILITY POLE           |  | UNDERGROUND WIRE            |
|  | GUY WIRE               |  | SHRUBS/BUSHES TO BE PLANTED |
|  | ASPHALT BERM           |  |                             |
|  | APPROX. SPOT ELEVATION |  |                             |

THE PURPOSE OF THIS PLAN IS TO SHOW DEVIATIONS FROM THE ORIGINAL APPROVED PLAN DATED APRIL 1, 2004.  
 DEP CERTIFICATE OF COMPLIANCE (Bk:17109/Pg:105)  
 ZONING BOARD OF APPEAL DECISION #2422 (Bk:16755/Pg:189)

JOB NO.	PROJ. NO.	SOURCE DWG.	FILE REF.
08-000	02-077	02-206	02-077A.Dwg
Drawn	Check	Date	Calc.
JKW	JKW		
REVISION DESCRIPTION			DATE

① OF 10

# ELEVATION CERTIFICATE

IMPORTANT: Follow the instructions on pages 1-9.

OMB No. 1660-0008  
Expiration Date: July 31, 2015

## SECTION A - PROPERTY INFORMATION

FOR INSURANCE COMPANY USE

A1. Building Owner's Name	A.G. Realty Trust, Alfred T. Marsella, Trustee		Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.	32 Oneida Drive		Company NAIC Number:
City	State	ZIP Code	
North Attleborough	Ma	02760	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)	AP 25 lot 351, Single Family Garrison, Deed bk 21698 Page 170		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)	Residential		
A5. Latitude/Longitude: Lat. <u>41.96178</u> Long. <u>-71.32287</u>	Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983		
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.			
A7. Building Diagram Number <u>7</u>			
A8. For a building with a crawlspace or enclosure(s):	A9. For a building with an attached garage:		
a) Square footage of crawlspace or enclosure(s) <u>1,656</u> sq ft	a) Square footage of attached garage <u>446</u> sq ft		
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>0</u>	b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>0</u>		
c) Total net area of flood openings in A8.b <u>0</u> sq in	c) Total net area of flood openings in A9.b <u>0</u> sq in		
d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number	B2. County Name		B3. State		
North Attleborough, Town of 250059	Bristol		Ma		
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/ Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
25005c0104	f	07/07/2009	07/07/2009	AE	175.0
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: <input type="checkbox"/> FIS Profile <input checked="" type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____					
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input checked="" type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date: _____ / _____ / _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on:  Construction Drawings\*  Building Under Construction\*  Finished Construction  
\*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.  
Benchmark Utilized: see section D Vertical Datum: NAVD 1988

Indicate elevation datum used for the elevations in items a) through h) below.  NGVD 1929  NAVD 1988  Other/Source: \_\_\_\_\_  
Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

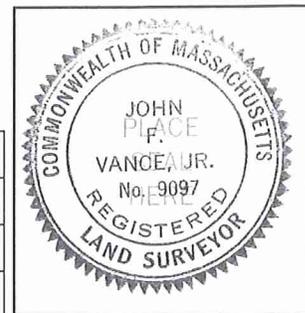
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	<u>176 . 5</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
b) Top of the next higher floor	<u>184 . 7</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
c) Bottom of the lowest horizontal structural member (V Zones only)	<u>NA</u>	<input type="checkbox"/> feet <input type="checkbox"/> meters
d) Attached garage (top of slab)	<u>180 . 8</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	<u>177 . 6</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
f) Lowest adjacent (finished) grade next to building (LAG)	<u>177 . 8</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
g) Highest adjacent (finished) grade next to building (HAG)	<u>181 . 5</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	<u>178 . 0</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor?  Yes  No  
 Check here if attachments.

Certifier's Name John F. Vance JR.		License Number 9097	
Title R.P.L.S \ P.E.		Company Name W.T. Whalen Engineering	
Address 481 Mount Hope Street		City North Attleborough	State Ma
Signature <i>John F. Vance JR.</i>		ZIP Code 02760	Date 11/06/2014
		Telephone (508) 699-4604	



ELEVATION CERTIFICATE, page 2

<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 32 Oneida Drive			Policy Number:
City North Attleborough	State Ma	ZIP Code 02760	Company NAIC Number:

**SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)**

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments -See Attachments pg 5 firm , pg 6 assessor map, pg 7 The National Map, Pg 8 Firm Map Sept. 14, 1979, Pg 9 Conversion  
 NGVD 1929 to NAVD 1988, PG 10 Firm Map 2505C0104G Preliminary 5/23/14

Signature John F. Vance Jr. Date 11-6-14

**SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)**

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).

a) Top of bottom floor (including basement, crawlspace, or enclosure) is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the HAG.

b) Top of bottom floor (including basement, crawlspace, or enclosure) is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the LAG.

E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8–9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the HAG.

E3. Attached garage (top of slab) is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the HAG.

E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance?  Yes  No  Unknown. The local official must certify this information in Section G.

**SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION**

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner or Owner's Authorized Representative's Name W.T. Whalen Engineering CO. By Neil Whalen

Address 481 Mount Hope St. City North Attleboro State MA ZIP Code 02760

Signature [Signature] Date 11/06/2014 Telephone (508) 699-4604

Comments See Attachments pages 5-10.

Check here if attachments.

**SECTION G – COMMUNITY INFORMATION (OPTIONAL)**

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

G1.  The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2.  A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3.  The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued
-------------------	------------------------	---

G7. This permit has been issued for:  New Construction  Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building: \_\_\_\_\_ . \_\_\_\_\_  feet  meters Datum \_\_\_\_\_

G9. BFE or (in Zone AO) depth of flooding at the building site: \_\_\_\_\_ . \_\_\_\_\_  feet  meters Datum \_\_\_\_\_

G10. Community's design flood elevation: \_\_\_\_\_ . \_\_\_\_\_  feet  meters Datum \_\_\_\_\_

Local Official's Name \_\_\_\_\_ Title \_\_\_\_\_

Community Name \_\_\_\_\_ Telephone \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

Comments \_\_\_\_\_

Check here if attachments.

<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>			<b>FOR INSURANCE COMPANY USE</b>	
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 32 Oneida Drive			Policy Number:	
City North Attleborough	State Ma	ZIP Code 02760	Company NAIC Number:	

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



FRONT  
VIEW  
10/30/2014



RIGHT  
VIEW  
10/30/2014

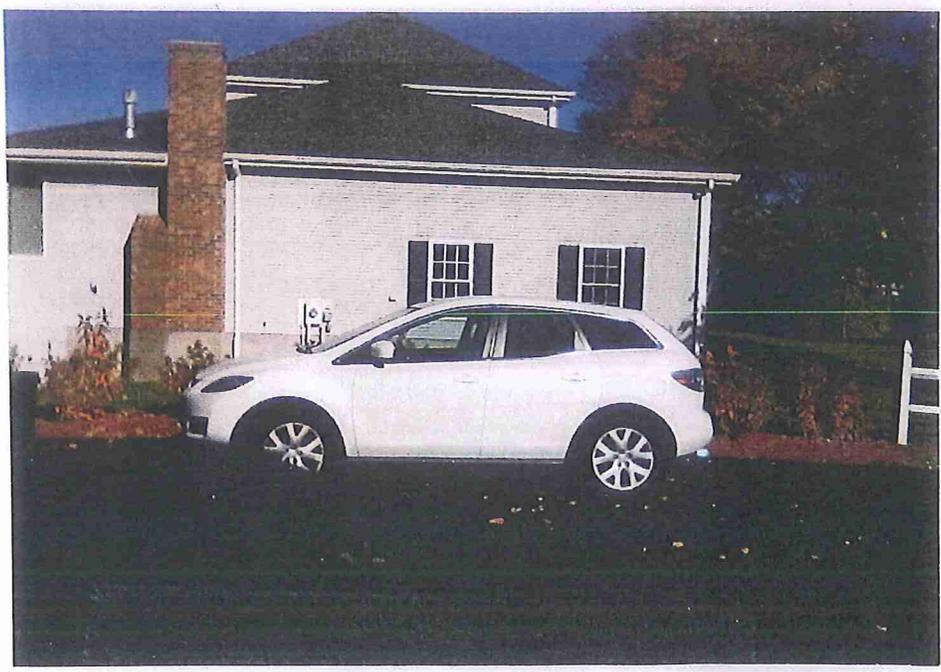
4

<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 32 Oneida Drive			Policy Number:
City North Attleborough	State Ma	ZIP Code 02760	Company NAIC Number:

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.



REAR  
VIEW  
10/30/2014



LEFT  
VIEW  
10/30/2014



**NATIONAL FLOOD INSURANCE PROGRAM**  
**FIRM FLOOD INSURANCE RATE MAP**  
 BRISTOL COUNTY,  
 MASSACHUSETTS  
 (ALL JURISDICTIONS)

PANEL 04 OF 50  
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)  
 COORDINATE NUMBER PANEL SUBSET  
 25005004F  
 0884 0884  
 0884 0884

Notice to User: The Map Number shown below should be used to identify the map. The map number and date shown are subject to change without notice. For more information, please contact the Federal Emergency Management Agency.  
**MAP NUMBER**  
 25005004F  
**EFFECTIVE DATE**  
 JULY 7, 2009

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using FIRM On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the map. For more information, please contact the Federal Emergency Management Agency. For more information on the National Flood Insurance Program, visit [www.fema.gov](http://www.fema.gov).



CINS PANEL 0108

**N OF NORTH ATTLEBOROUGH**  
**250059**



Topo Imagery Topo Imagery Hydro-NHD Hill Shade Blank

OF MINIMAL FLOOD HAZARD ZONE\*

**Coordinates**

DD: 41.96178° -71.32287°  
 DMS: 41° 57' 42.396" N 71° 19' 22.315" W  
 USNG: 19T CG 07505 48142 (NAD 83)  
 MGRS: 19TCG0750548142

Zoom To More v

FLOODWAY Zone AE

PANEL  
25005C0104F  
eff. 7/17/2009

PANEL  
25021C0430E  
eff. 7/17/2012

41° 57' 40.969" N 71° 19' 27.530" W USNG: 19T CG 07505 48100 (NAD 83)

Scale: 1:51,428

The National Map

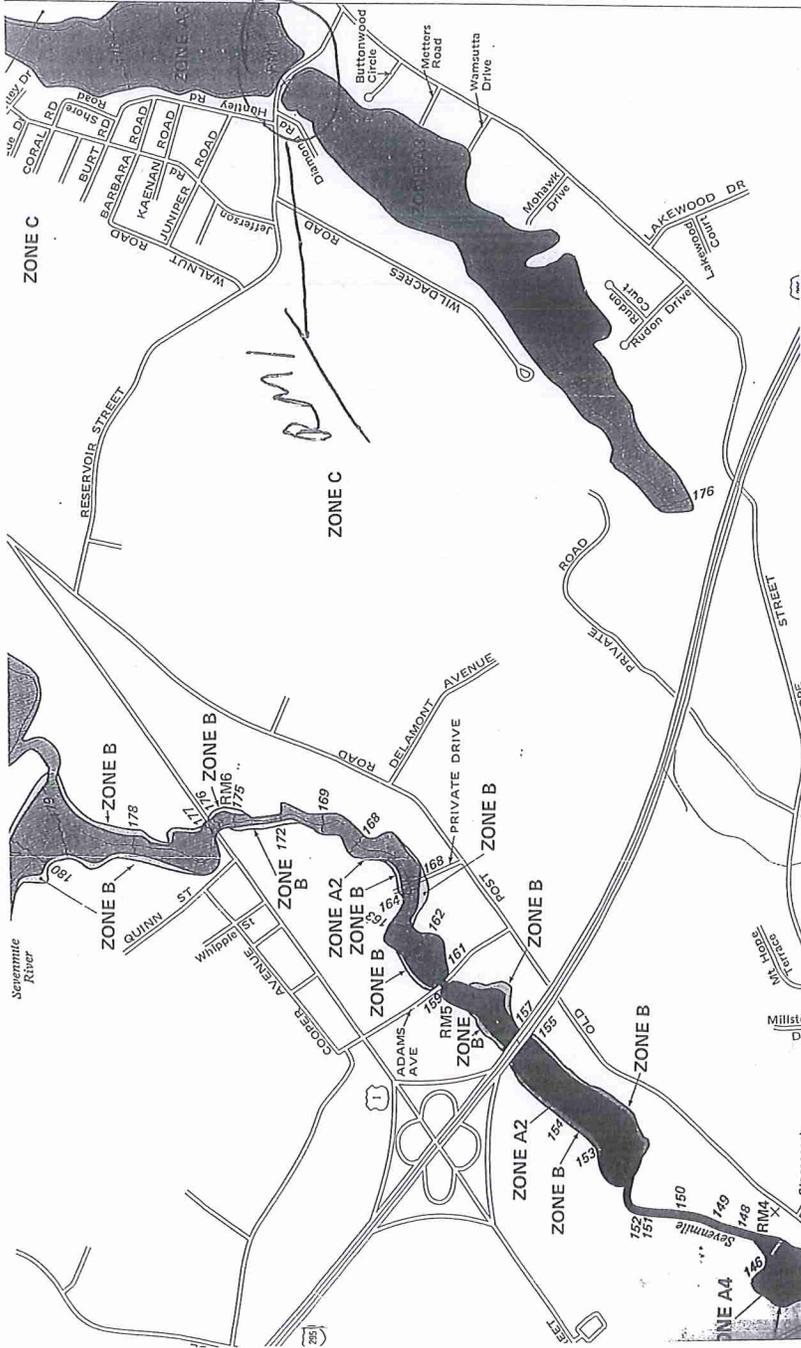
LW B358

175

L6MA  
14-01-2362A  
7/21/14

7

*Bench Mark*



Refer to the CONVERSION TO REGULAR PROGRAM date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620, or (800) 424-8872.



APPROXIMATE SCALE  
1000 0 1000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
FLOOD INSURANCE RATE MAP

TOWN OF  
**NORTH ATTLEBOROUGH,**  
MASSACHUSETTS  
BRISTOL COUNTY

PANEL 5 OF 10

2-4-05

COMMUNITY-PANEL NUMBER  
250059 0005 B

EFFECTIVE DATE:  
SEPTEMBER 14, 1979

*176.53*  
*- .78*  
*175.75 (NA 40 1988)*  
*See pg. 9*

ELEVATION REFERENCE MARKS

REFERENCE MARKS	ELEVATION FEET (NGVD)	DESCRIPTION OF LOCATION
RM 1	176.53	A chiseled square on the east side of the upstream headwall on Reservoir Street at Falls Pond.
RM 2	181.90	Top of hydrant spindles located on East Washington Street at MacDonald's Mobile Homes, south of culvert crossing of Ten Mile River.
RM 3	144.63	A chiseled square in the center of the upstream headwall of Old Post Road bridge over the Sevenmile River.
RM 4	151.97	A chiseled square on the northeast corner of a stone step at the north entrance of the First Congregational Church, on Old Post Road near intersection with Mount Hope Street.
RM 5	162.26	A chiseled square in the center of the downstream headwall of Adams Avenue bridge over the Sevenmile River.
RM 6	181.67	A chiseled square on the upstream headwall of Washington Street culvert crossing of the Sevenmile River.



8

DEPARTMENT OF HOUSING  
AND COMMUNITY DEVELOPMENT

9

# Office

14-098

3 November 2014

## INPUT

Geographic, NAD83  
Vertical - NGVD29 (Vertcon94), U.S. Feet

## OUTPUT

Geographic, NAD83  
Vertical - NAVD88, U.S. Feet

---

### 32 Oneida Dr

1/1

**Latitude:** 41.96178  
**Longitude:** 71.32287  
**Elevation/Z:** 176.53

**Latitude:** 41 57 42.40800  
**Longitude:** 71 19 22.33200  
**Elevation/Z:** 175.752

176.53  
- 175.75  
- 0.78

---

Remark: RM #1 C.sq. Headwall

