

## Appendices (Part 1 of 3)

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# Appendix A

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Task 1-1 Recap Nemo

Task 1-2 Supporting Documentation



## Task 1.1 Recap Memo

To:	Kyle Johnson/Kleinfelder	From:	Jen Zoppo/Stantec
	One Beacon Street, Suite 8100		226 Causeway Street
	Boston, MA 02108		Boston, MA
File:	195130265	Date:	October 29, 2019

### Reference: Opportunity Areas Identified by Communities

Community	Opportunities	General Comments
<b>Arlington</b>	<ul style="list-style-type: none"> <li>Meadowbrook Park (old infrastructure for stop logs here, cemetery)</li> <li>Russell Municipal Lot (corner of Chestnut/Mystic Street). A few acres, near St Agnus. Aboveground parking, flood storage under and green roof on top.</li> <li>Robins Farm Park</li> <li>Thompson &amp; Gibbs Schools – recently redone. May be opportunity at field at Thompson school. The question is whether possible to get water there. Town of Arlington is doing some investigation.</li> <li>High School upcoming but there is contamination. Already in design.</li> <li>Spy Pond</li> <li>Broadway is a very wide road; could put a swale along it. Combine with traffic calming/pedestrian safety. Could consider reducing parking to only one side of the road <ul style="list-style-type: none"> <li>From Bates westbound is more residential, currently 42' wide</li> <li>From Bates eastbound is currently 44' wide</li> </ul> </li> <li>North Union playground, possibly re-doing it now for playground. It's below the road now, could raise up and include storage below</li> </ul>	
<b>Belmont</b>		

Reference: Opportunity Areas Identified by Communities

Community	Opportunities	General Comments
<b>Burlington</b>	<ul style="list-style-type: none"> <li>• Skating rink near Littles Brook/Woburn town line. FMC leases land from the Town.</li> <li>• Mary Cummings Park (top of a hill so not ideal)</li> <li>• Rotary Field is lower elevation. Also Marvin field. One of these is Town-owned (can check assessors database to confirm which). Water comes down from S Bedford/Blanchard and from Northeastern.</li> <li>• Conservation land near Mountain Road, left of overlook park (Town property). Topography is challenging here.</li> <li>• Wyman Street old Town well. Wellhouse; well not used for years. No treatment plant and no plans to use it.</li> </ul>	<ul style="list-style-type: none"> <li>• Mostly maintenance in CIP. No big projects.</li> <li>• Contamination throughout town tends to be an issue for infiltration.</li> </ul>
<b>Cambridge</b>	<ul style="list-style-type: none"> <li>• Danehey project identified</li> <li>• Russell Field (environmental issues)</li> <li>• Clarendon, small, being redeveloped now</li> <li>• Playground Rindge Ave, large. Would have to be an underground system</li> <li>• Rafferty Field (Concord Ave), but adjacent lots are private and not looking to treat stormwater from private lots.</li> <li>• St Saviour Court housing authority experiences flooding, possible location for tank.</li> <li>• Some pipes are larger than they need to be, could divert flow there. Realtime controls.</li> </ul>	
<b>Everett</b>	<ul style="list-style-type: none"> <li>• City owned land along river south of Freightliner canoe/kayak launch</li> <li>• Island End 3.0 (possibly next MVP application). Everett/Chelsea regional action grant for a seawall, currently no restoration or GI. City doesn't own any land there. Everett MVP tie-in to raise roadway adjacent.</li> </ul>	<ul style="list-style-type: none"> <li>• Most of Everett is contaminated; not much opportunity for infiltration</li> </ul>

**Reference: Opportunity Areas Identified by Communities**

Community	Opportunities	General Comments
	<ul style="list-style-type: none"> <li>Wetland area along Revere Beach Parkway currently just collects trash and no one cleans it. There is area along Revere Beach Parkway</li> </ul>	<ul style="list-style-type: none"> <li>CIP projects are more on the coastal side</li> </ul>
<b>Lexington</b>	<ul style="list-style-type: none"> <li>Repaving parts of Mass Ave within 5 years from Arlington Town line to Pleasant St</li> <li>Harrington School may be an opportunity, particularly the fields. Older school.</li> <li>Waldorf School (private), south of a large wetland</li> <li>Arlington Meadows, large wetland</li> <li>Mass Ave/Minuteman Pkwy near Seasons 4 (nursery/garden center)</li> </ul>	No large projects planned
<b>Malden</b>	<ul style="list-style-type: none"> <li>Turf construction planned for Roosevelt Park, stormwater storage</li> <li>McDonald Stadium - storage</li> </ul>	No storm drain CIP
<b>Medford</b>	<ul style="list-style-type: none"> <li>Rebuilding Fire Dept</li> <li>Making two streets public; Freedom Way</li> <li>Barry Park, possibly infiltration</li> <li>High School, water runs down outdoor stairs along the road, has been investigated by Horsley Witten as place for GI</li> <li>Land along highway ramp (93)/river is state-owned. detention basin/bioswale</li> <li>Tufts Park, KLF looking at capacity for underground storage tank</li> <li>Private property, wetland, contamination. Old radio tower WEEI. Overgrown building. Undevelopable. Across from Torbert Macdonald Park. Has been of interest to MyRWA as siting for stormwater wetland and wetland restoration.</li> </ul>	

**Reference: Opportunity Areas Identified by Communities**

Community	Opportunities	General Comments
	<ul style="list-style-type: none"> <li>• Victory Park, natural wetland, soccer fields. Currently floods and have to close it.</li> <li>• DCR Parks (Dugger Park, Veterans Memorial Park (long/linear), McDonald Park)</li> <li>• Buried streams in City, Gravelly Brook runs parallel to 93 from Wright's Pond Opportunity to daylight. Gillis Park is next to it.</li> <li>• Playstead Park used to have a stream through it. Previously talked about installing a large chamber under the park. Also part of Medford- Horsley Witten GI study.</li> <li>• Source control – convert private parcels to conservation</li> </ul>	
<b>Melrose</b>	<ul style="list-style-type: none"> <li>• Franklin Field 604b study identified locations for storage, submitted grant app over a year go but don't think they received it. More about water quality.</li> <li>• Warren Street Park on Franklin at corner of Warren and Melrose, also 604b. Proposed underground storage system.</li> <li>• Pine Banks Park, jointly owned by Melrose/Malden. One new turf field. Could possibly do something under baseball fields.</li> <li>• Potential for infiltration along cemetery roads where new drainage pipes are proposed. This project is getting MEMA funds. Not in design yet, possible that the project could get additional storage infiltration, e.g. Cultec as cost-effective opportunity.</li> <li>• Derby Road area maybe opportunity for roadway GI practices.</li> <li>• City-owned parking lot behind where Papa Gino's used to be, between Foster and Grove St along the back of Main Street. Could do infiltration.</li> </ul>	



**Reference: Opportunity Areas Identified by Communities**

Community	Opportunities	General Comments
<b>Reading</b>	<ul style="list-style-type: none"> <li>• Skating rink for storage, but there isn't a lot that drains to it. Located at headwaters, near High School. Floods and they dam it in winter for a rink.</li> <li>• Winter skating rink</li> <li>• Elementary and Middle School</li> <li>• Birch Meadow site work planned FY21</li> <li>• Barrows School infiltration chamber already. Probably minimal – could put in larger ones.</li> </ul>	High groundwater across town
<b>Somerville</b>	<ul style="list-style-type: none"> <li>• Senior Housing (private) along Alewife Brook. Clarendon Hill. Site improvements planned; parking lot.</li> <li>• Matignon Field, private school</li> <li>• Somerville Housing Authority (south of Ten Hills)</li> <li>• Holland Street repaving (Area 3 from Somerville MVP study)</li> <li>• Group small GSI together at a neighborhood scale; results from Somerville MVP project</li> </ul>	<p>Only small portions in the Mystic are separated, but more planned in the future (possibly Davis)</p> <p>Assembly Row drains below dam</p>
<b>Stoneham</b>	<ul style="list-style-type: none"> <li>• Pomeworth Field</li> <li>• Weiss Farm (private), agriculture. 40B development.</li> <li>• Recreation Park</li> <li>• New High School planned, about 5 years from now. Forming a building committee now. Assume same location as existing High School for now.</li> </ul>	<p>Stoneham is at a higher elevation than surrounding Towns</p> <p>Town does not have a CIP</p>
<b>Wakefield</b>	<ul style="list-style-type: none"> <li>• Some Town-owned parcels near border with Melrose/Stoneham, but high elevation</li> <li>• Main Street, some gas work planned in the next year or two. Complete streets. Infiltration trenches. <b>May be outside watershed.</b></li> </ul>	Town Engineer thinks there is a larger area in the Mystic watershed than shown based on the boundary from

**Reference: Opportunity Areas Identified by Communities**

Community	Opportunities	General Comments
		<p>MassGIS; could lead to more opportunities</p> <p>The Town has historically been under-funded on roads/sidewalks and is going after \$2.5M per year for the next 10 years – opportunity to include GSI</p>
<b>Watertown</b>		Town of Belmont owns Belmont Street, but Watertown owns sidewalks.
<b>Wilmington</b>	<ul style="list-style-type: none"> <li>Town owns limited property within the Mystic watershed. Some on Cook Ave, but hilly.</li> <li>Small pump station owned by Town</li> </ul>	<p>Sand and gravel throughout Town, so good infiltration</p> <p>Most of the area in the Mystic watershed is industrial. Very limited residential around Cook Ave.</p>
<b>Winchester</b>	<p>Town reports they have already implemented BMPs at all major opportunity areas. Most opportunity is in Woburn (Cummings Park, development with Kraft Foods – conservation restriction on land not currently to be developed.)</p> <ul style="list-style-type: none"> <li>Muraco and Lynch Elementary Schools likely to be rebuilt next.</li> <li>Design for infiltration at Lincoln Elementary School but didn't have money to build. Plans available.</li> <li>Leonard Field, some drainage down Washington toward field.</li> <li>Opportunity along Aberjona River (Davidson Park)</li> </ul>	

**Reference:**      **Opportunity Areas Identified by Communities**

Community	Opportunities	General Comments
<b>Woburn</b>	<ul style="list-style-type: none"><li>• Cranberry bog conservation area along Aberjona, flood storage. Washington Circle to Salem St. Marsh above it, then Halls Brook holding area. Where cranberry bog crosses Washington would be great location for storage but a house currently there.</li><li>• Four Corners, next MVP opportunity. Culvert issue/blockage. Runs under buildings (KFC)</li><li>• Wetlands across Washington, 17.5 acres owned by City</li><li>• NRD restoration of wetland</li></ul>	

**Highlighted text** indicates site for which GIS shapefile data is provided.

### **Stantec Consulting Services**

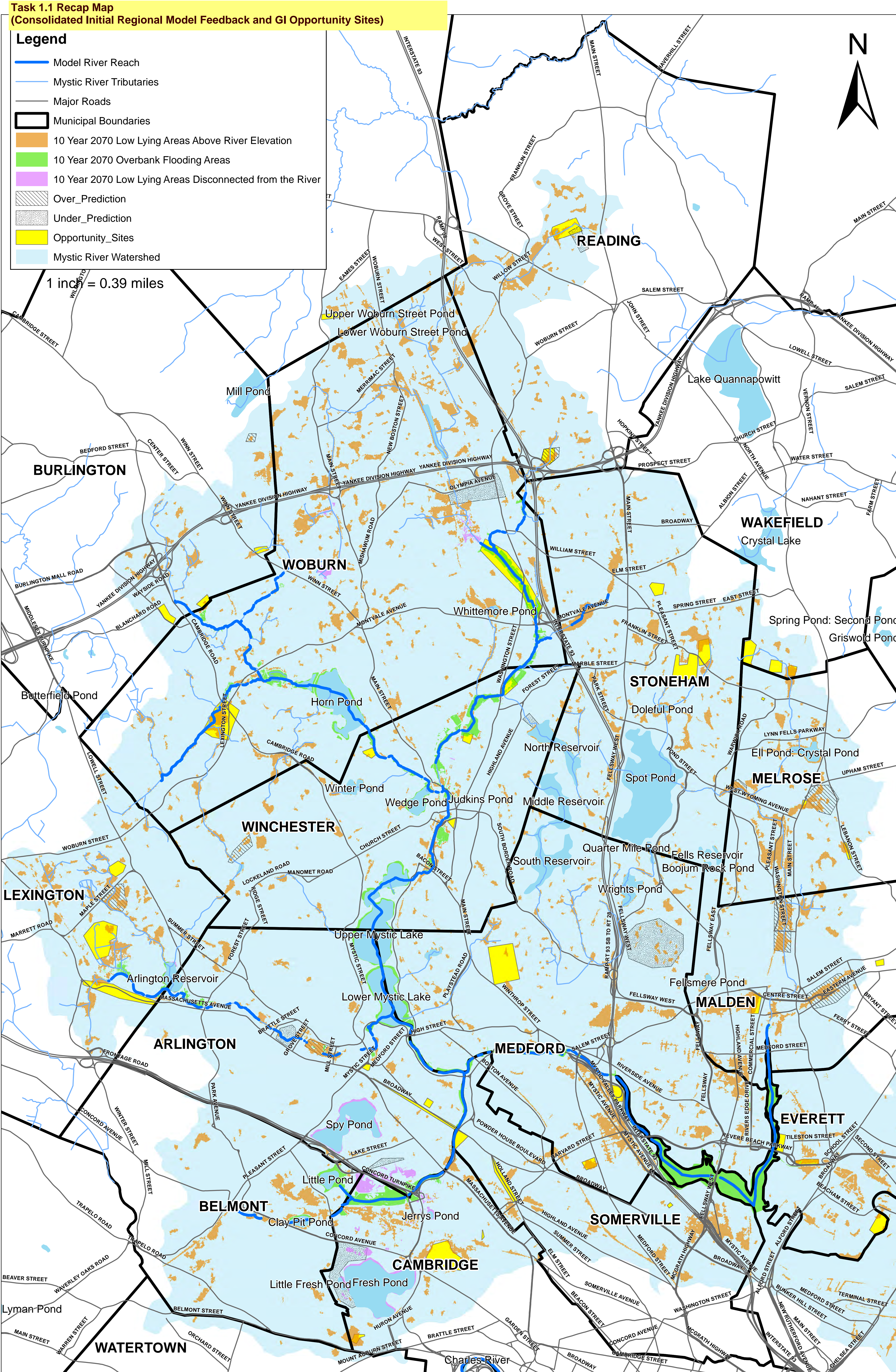
**Jen Zoppo** PMP  
Project Manager

Phone: 1 617 314 7172  
jennifer.zoppo@stantec.com

Attachment:      Attachment

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## Task 1.1

Outreach materials and sample  
community data request

## MVP Action Grant: Watershed-wide Analysis to Optimize & Coordinate Regional Stormwater Management in Mystic River Watershed



### PROJECT OVERVIEW

The Resilient Mystic Collaborative's (RMC) Upper Mystic Stormwater Working Group, through the City of Cambridge, was awarded a \$350,000 Municipal Vulnerability Preparedness (MVP) [Action Grant](#) to prioritize opportunities for regional stormwater retention with an emphasis on green infrastructure solutions. An associated \$75,000 grant from the U.S. EPA will help communities incorporate the results of this work into their local Hazard Mitigation Plans.

The MVP [Action Grant](#) will be used to complete a comprehensive analysis of how to optimize and coordinate regional stormwater management in the Upper Mystic River Watershed. The goal of the analysis is to determine the effectiveness of new stormwater wetlands and active reservoir management in reducing river flooding at a regional scale.

### WHY IS THIS PROJECT A PRIORITY? HOW DOES IT ADVANCE REGIONAL RESILIENCY EFFORTS?

*“Climate impacts do not recognize town, county, or state borders.”*

*“Extreme precipitation events, impacted by climate change, cause the Mystic River watershed to flood more frequently and severely due to changes in intensity and rainfall volume.”*

*- Recent regional climate reports*

A growing number of municipalities within the Upper Mystic River watershed have conducted climate change vulnerability assessments and determined that addressing flooding from extreme precipitation is of high priority within their municipality. This initiative aims to advance efforts to mitigate flooding from precipitation events within the watershed by aligning resources with intervention opportunities. Working together across municipal boundaries to prioritize the most cost-effective projects at the watershed scale, this project will serve as a model for other regional collaboratives across the state and country.

Through this MVP Action Grant, the project team will identify and pursue site-specific green infrastructure opportunities for regional stormwater management and evaluate additional flood management strategies to mitigate precipitation flooding from the 10-year storm event in 2070.

### WHAT ARE THE KEY PROJECT OUTCOMES? HOW WILL THIS BENEFIT MY MUNICIPALITY?

The Consensus Building Institute (CBI) released a new report this month<sup>1</sup>, funded by the Barr Foundation, that included an overview of climate resilience initiatives in the Greater Boston region.

A major takeaway from this report was that preparing for climate impacts requires municipalities to address areas of *shared vulnerability* in addition to their own unique needs. The project team is coordinating with 17 municipalities within the Upper Mystic watershed, DCR, and MWRA to identify and pursue site-specific green infrastructure opportunities to advance regional and local stormwater management with co-benefits for RMC stakeholders. The project will involve:

- Undertaking a watershed-wide analysis to optimize and coordinate regional stormwater management in the Mystic River Watershed.
- Refining the existing watershed model to become an inclusive, shared stormwater management model for Upper Mystic municipalities. This step will help improve planning efforts and assist in prioritization of projects that reduce watershed flood risk via improved stormwater management.
- Building out a portfolio of potential green infrastructure projects in each municipality. For each municipality in this project, at least one green infrastructure project opportunity will be identified. (A full list of these will be shared in this project's Final Report.)

<sup>1</sup> *Pathways to Climate Resilience: Strategies for the Greater Boston Area*. Barr Foundation & Consensus Building Institute. August 2019. <https://barrfdn.issuelab.org/resource/pathways-to-climate-resilience-strategies-for-the-greater-boston-area.html>

## MVP Action Grant: Watershed-wide Analysis to Optimize & Coordinate Regional Stormwater Management in Mystic River Watershed



- Using a consensus-based prioritization approach, the project team – working in collaboration with the RMC Upper Mystic Stormwater Working Group - will rank the most cost-effective green infrastructure projects that contribute significantly to flood reduction at the watershed scale (during precipitation events) while also delivering significant co-benefits and enhancing local climate resilience:

- A select group of priority project opportunities will then be advanced to 10% concept design and modeled within the updated Mystic River Watershed model. (Note: Priority opportunities in this group will not include an opportunity in each of the municipalities). The intent of prioritization, as it applies to this effort, is to prioritize project opportunities that contribute significantly to flood reduction at the watershed scale and help position these potential projects for implementation via future MVP Action grants, or using other funding sources.

### Mystic River Watershed Regional Stormwater Management Project [MVP Grant]

Study most effective green infrastructure solutions to decrease risk of flooding due to extreme precipitation events.

#### Extreme Precipitation



#### Legend

##### Watershed

- Upper Mystic Watershed
- Lower Mystic Watershed

Note: Labels denote 17 municipalities upstream of the Amelia Earhart Dam within Mystic River Watershed



### HOW CAN YOU BEST SUPPORT THIS PROJECT?

As municipal engineers, planners, first responders, and leaders within the watershed, your involvement is very important. Your input is being requested:

- Review the projected flood maps** at the meeting that were developed through previous RMC and project team efforts to help calibrate the Upper Mystic Watershed model via feedback and data on actual observations;
- Provide technical feedback on drainage system functions and first-hand observations from first response to flood events** at the meeting; also discuss and review any previous work done by specific communities to identify potential parcels for green infrastructure implementation.
- Share existing community data.** See **ATTACHMENT: Data Request Table**. Within 2 weeks of the meeting, provide requested data (GIS data, reports, plans, etc.) to Jen Zoppo at Stantec.
- Meeting participants are also invited - and encouraged to **contribute to - the RMC Upper Mystic Stormwater Working Group's prioritization ranking workshops** (target date December 2019 or January 2020). As this date nears, meeting participants will receive an email with confirmed date and location.

**PROJECT TIMELINE:** September 2019 – June 2020

### PROJECT CONTACTS:

Patrick Herron, Executive Director, Mystic River Watershed Association, [Patrick.Herron@mysticriver.org](mailto:Patrick.Herron@mysticriver.org) 781-316-3438

Jen Zoppo, Project Manager, Stantec, [Jennifer.Zoppo@stantec.com](mailto:Jennifer.Zoppo@stantec.com) 617-314-7172

Task 1.2  
Supporting Documentation

Initial Regional Model  
documentation



# Integrated Watershed Modeling of the Mystic River: Developing the Right Tools for Climate Change Preparedness

David Bedoya, PhD, PE  
Yovanni Cataño-Lopera, PhD, PE  
Nicholas Stepina, PE



# Presentation Overview

**1** Cambridge CCVA

**2** The Alewife Brook Area

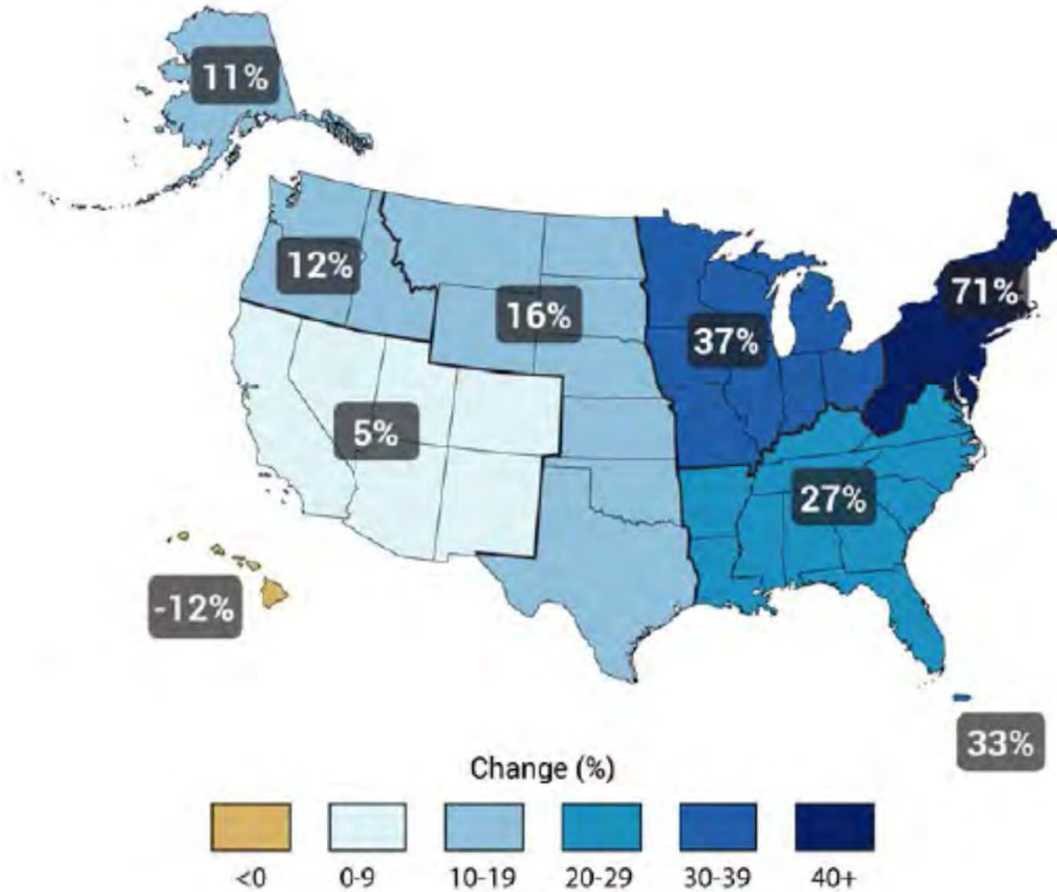
**3** Hydraulic Model Integration

**4** Hydraulic Model Calibration and Validation

**5** Potential Future Uses

**6** Conclusions

# 1 Cambridge CCVA, Part 1

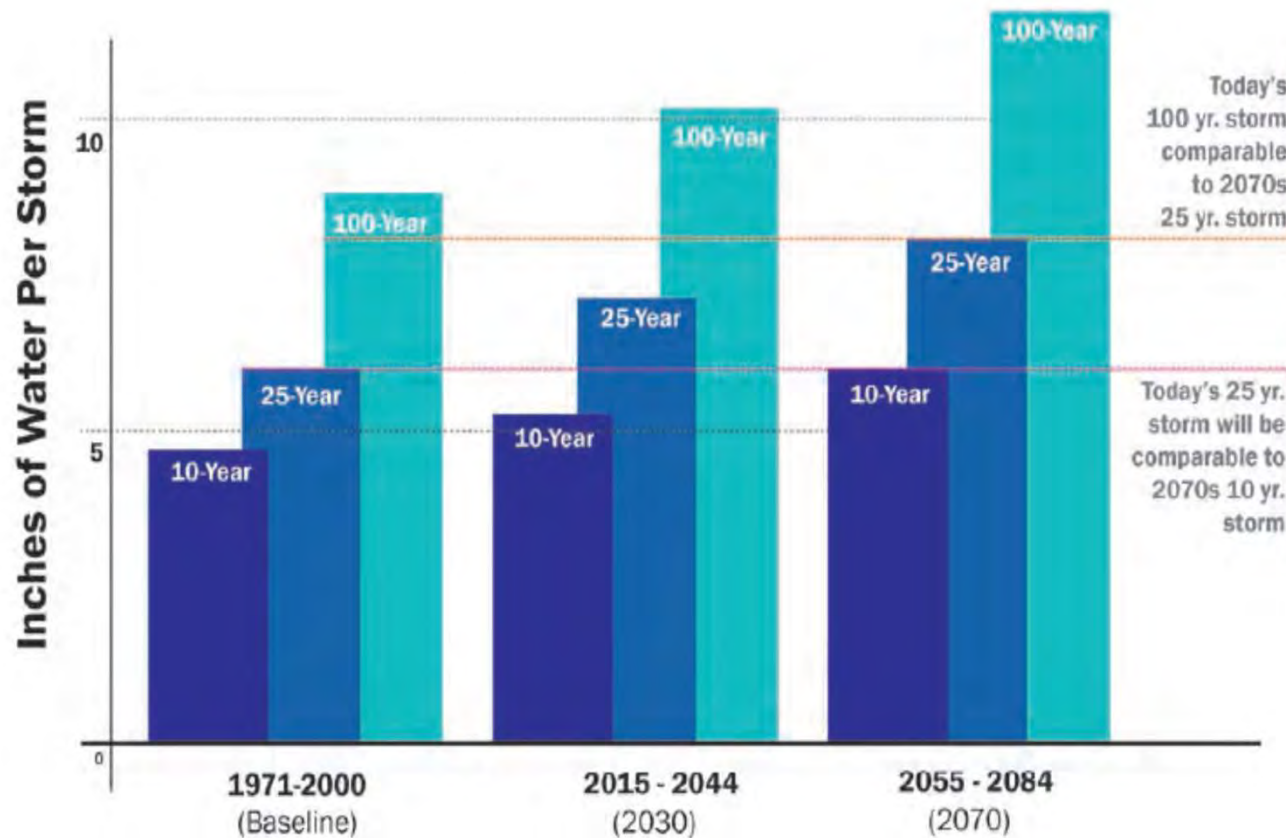


Source: 2014 U.S. National Climate Assessment Report



# Cambridge CCVA, Part 1

## Increase in Precipitation

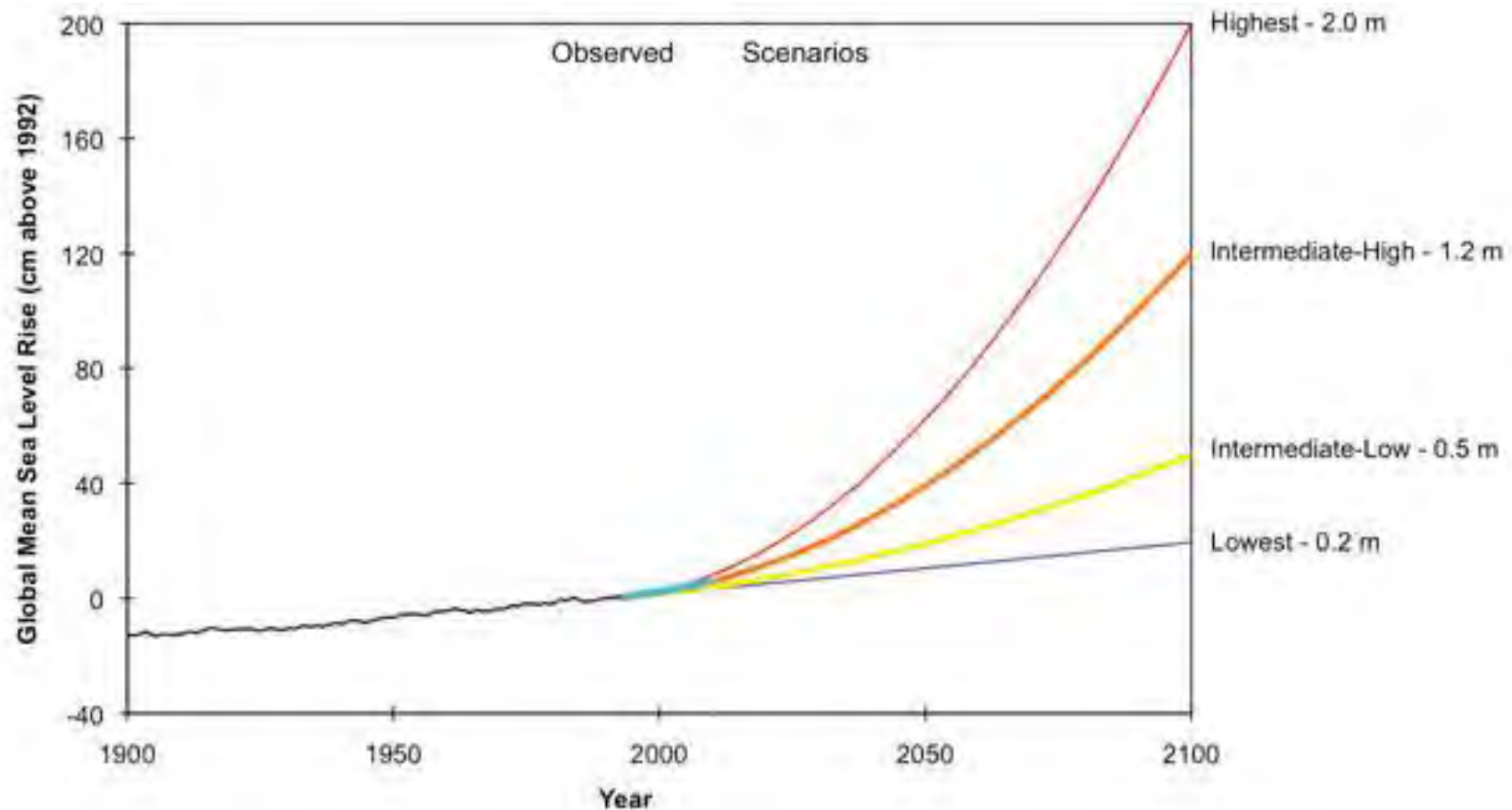


Source: 2015 Cambridge CCVA, Part 1



# Cambridge CCVA, Part 1

SLR/SS



Source: NOAA (2012). Global Sea Level Rise Scenarios for the United States National Climate Assessment

# Flood Modeling in the CCVA

## **Riverine Overbank Flooding from Precipitation**

- Captured using HEC-RAS model

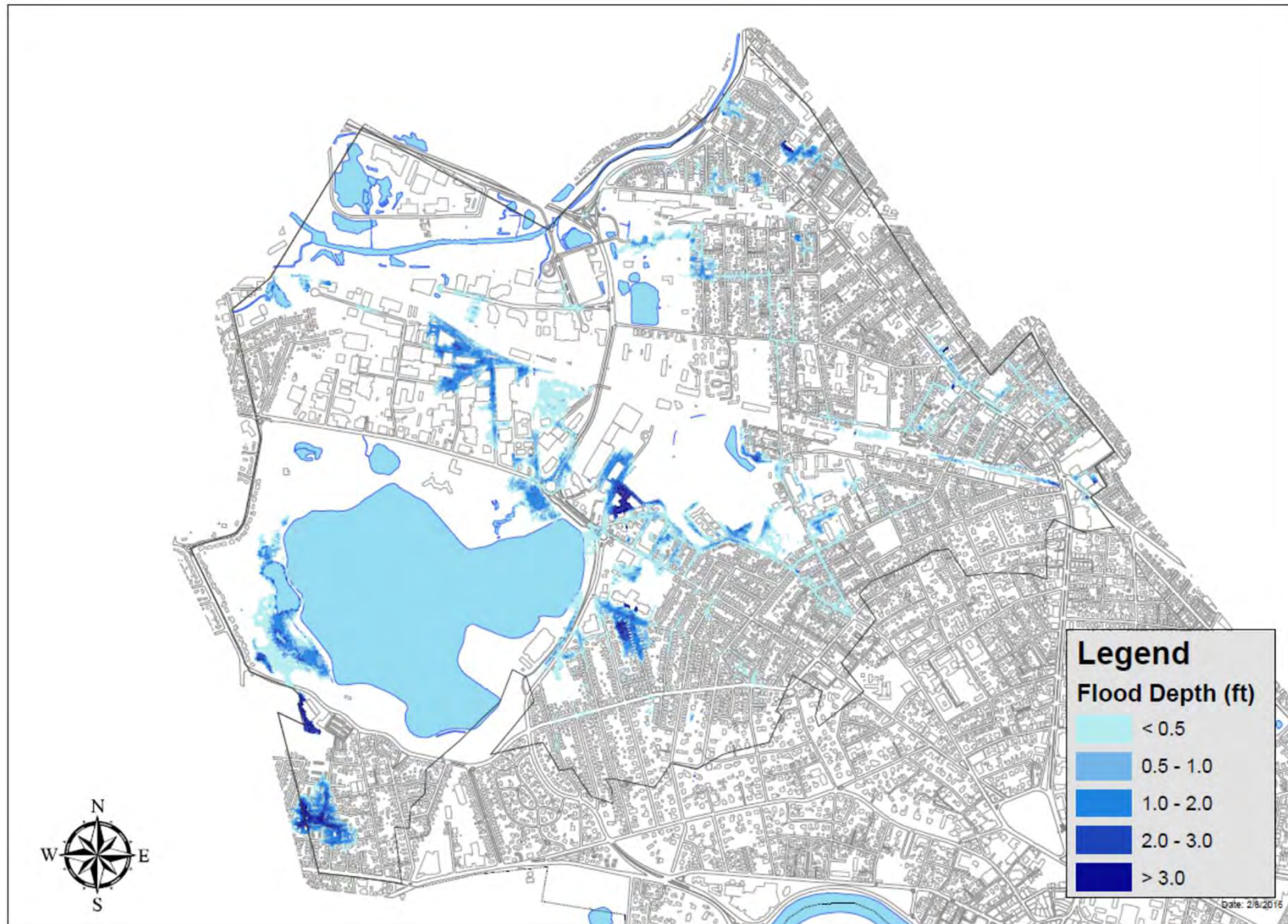
## **Sewer System Flooding from Precipitation or River Backups**

- Captured Using City's Infoworks ICM Model

## **Riverine Overbank Flooding from SLR/SS events**

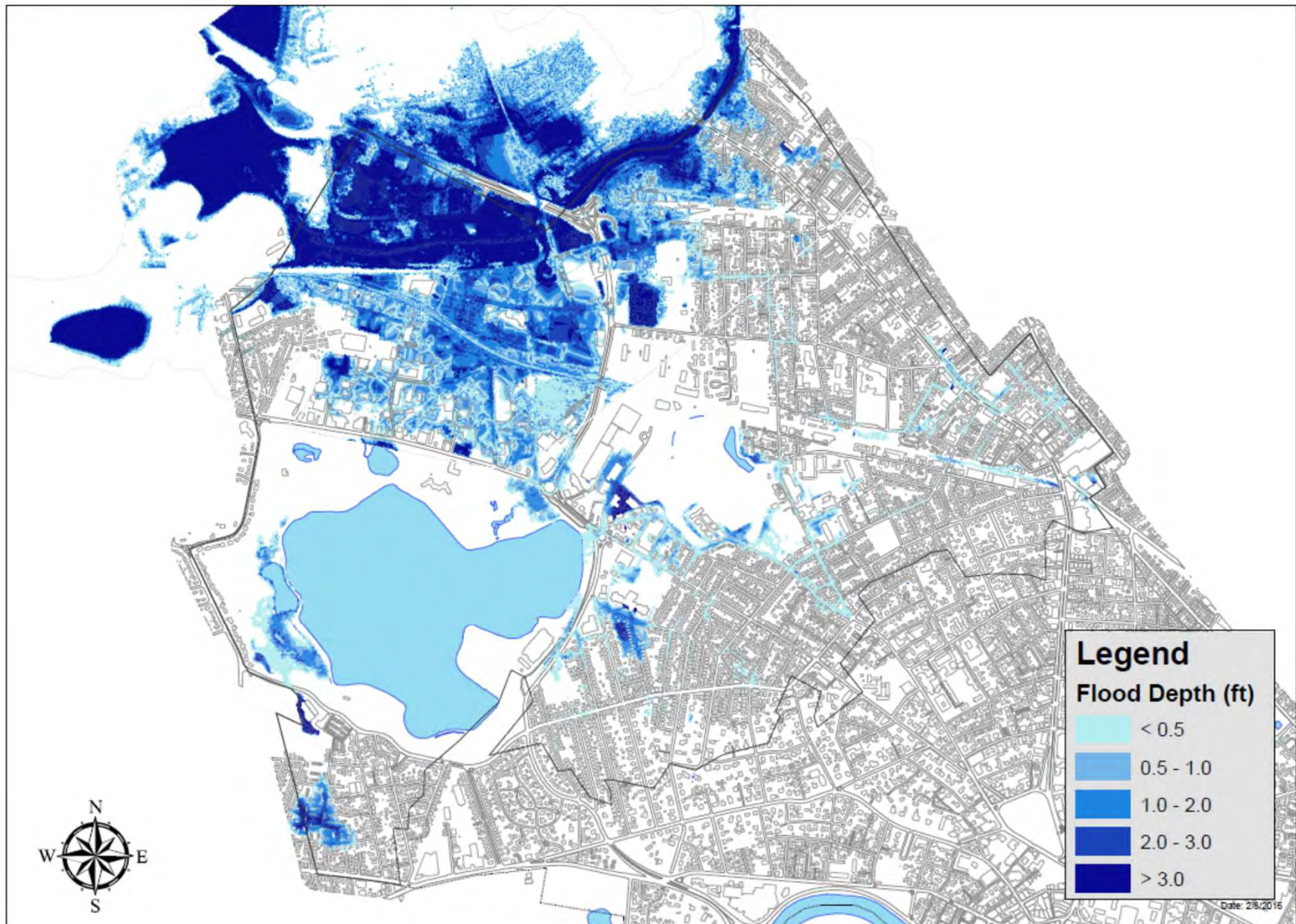
- Captured using ADCIRC in the BH-FRM

# Sewer System Flooding from Precipitation



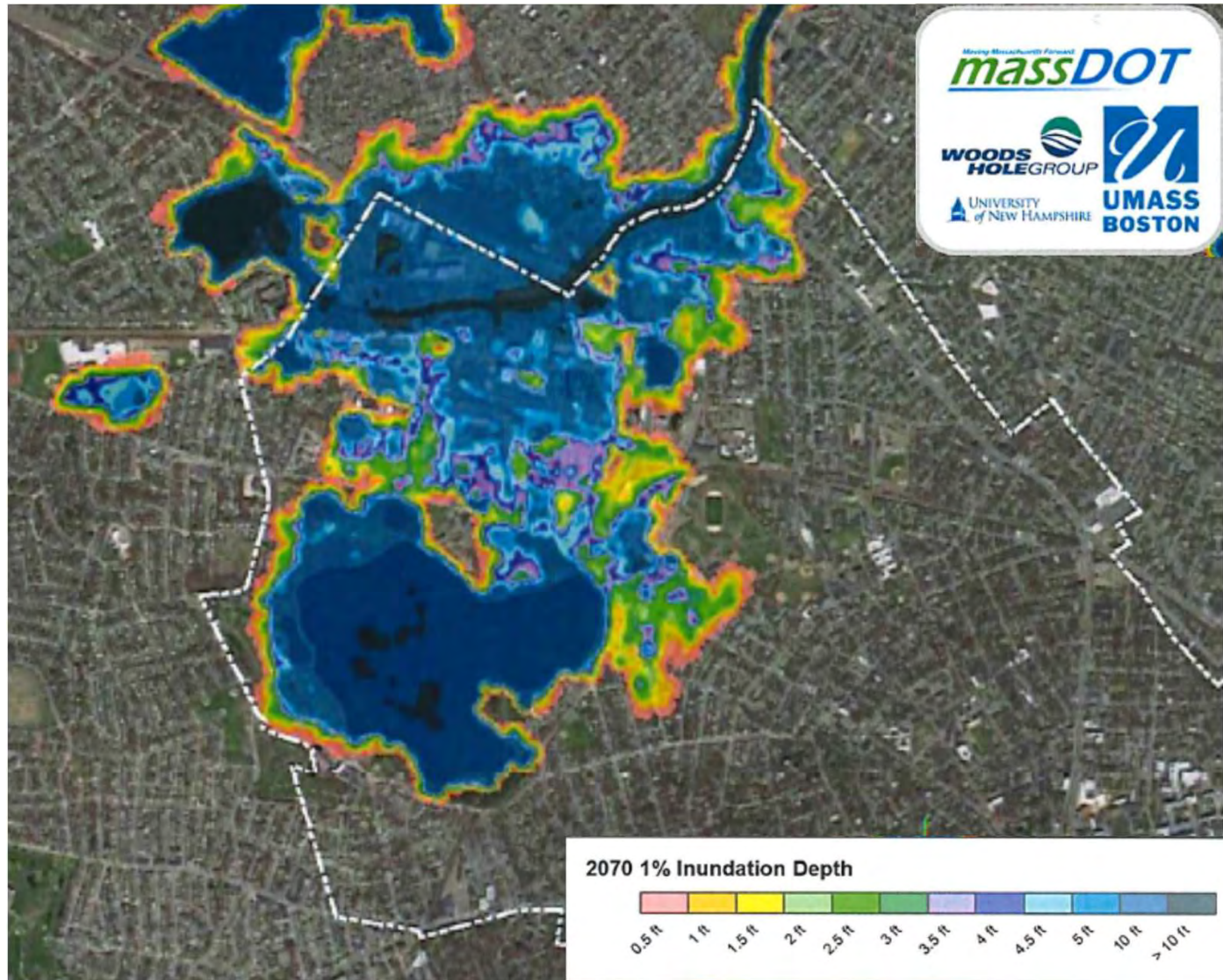


# Riverine and Sewer System Flooding from Precipitation





## Riverine Flooding from SLR/SS



# CCVA Part 1, Conclusions

## Charles River

- Riverine overbank flooding risk is small
- Sewer system flooding is greatly exacerbated
- SLR/SS flooding risk is small and flow pathways are localized

## Alewife Brook

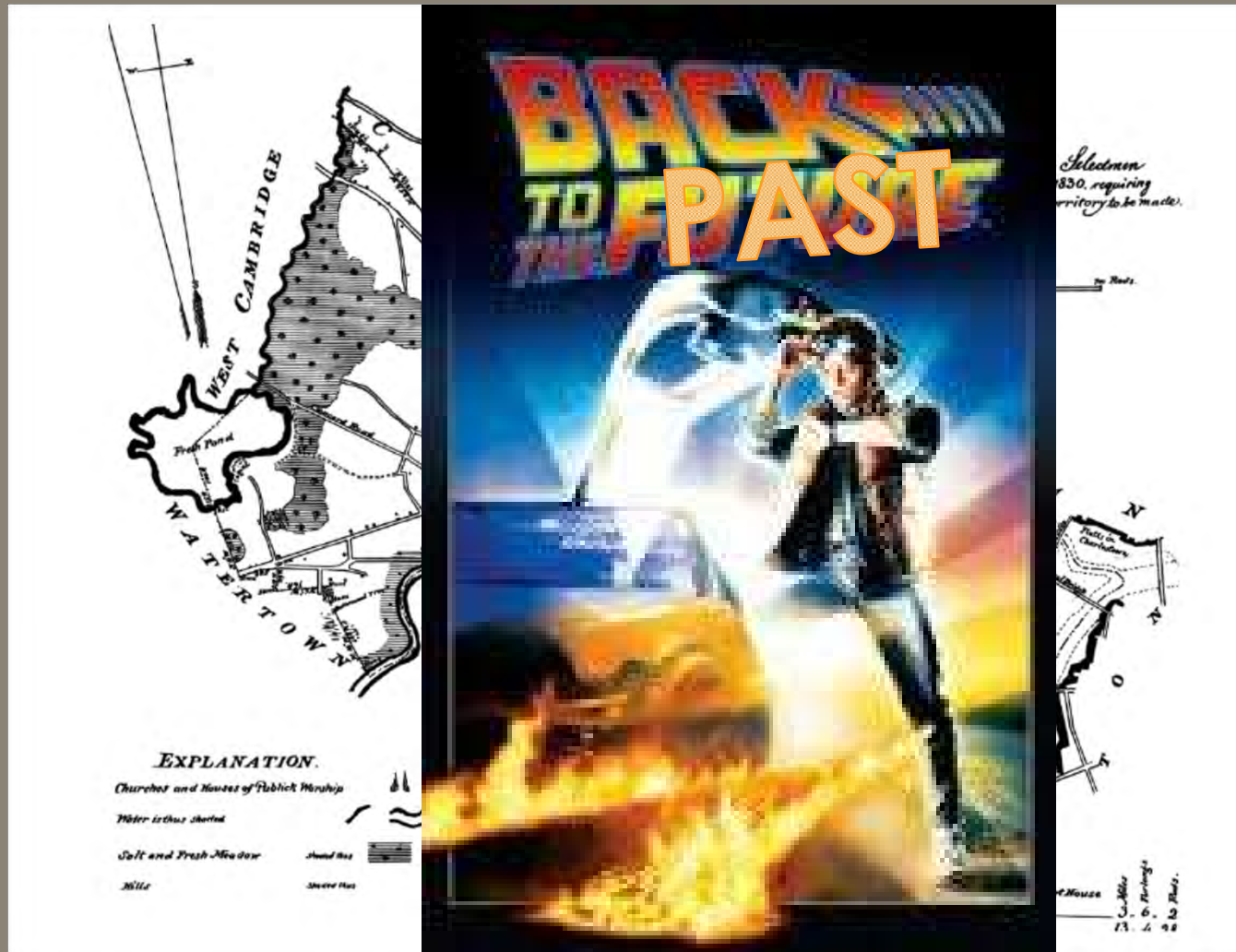
- Riverine overbank flooding is significantly increased
- Sewer system flooding is increased
- SLR/SS flood risk and severity are greatly increased by the end of the century

## 2 The Alewife Brook Area

- This region of Cambridge is the most vulnerable to flooding under climate change
- Flooding risk is augmented by increased precipitation up to mid-century as well as SLR/SS at the end of the century
- The Alewife area will be impacted by both riverine and sewer system flooding



## 2. The Alewife Brook area in the Future –Title of the Movie?



Source: John Sullivan, Cambridge Historical Commission

# Challenges of a non-integrated approach

- Different flooding types occur at different times
- Flooding is generated by factors of different scale (local or system level for sewer flooding) versus watershed or regional for riverine flooding
- High degree of inter-dependence between systems
- Running scenarios and combinations of scenarios becomes cost and time prohibitive (it's also the worst nightmare for a hydraulic modeler-high chances of error)

# 3 Hydraulic Modeling Integration

- River Models don't include pipe systems
- Sewer models don't include river systems
- Coastal models don't include pipe systems or hydrology

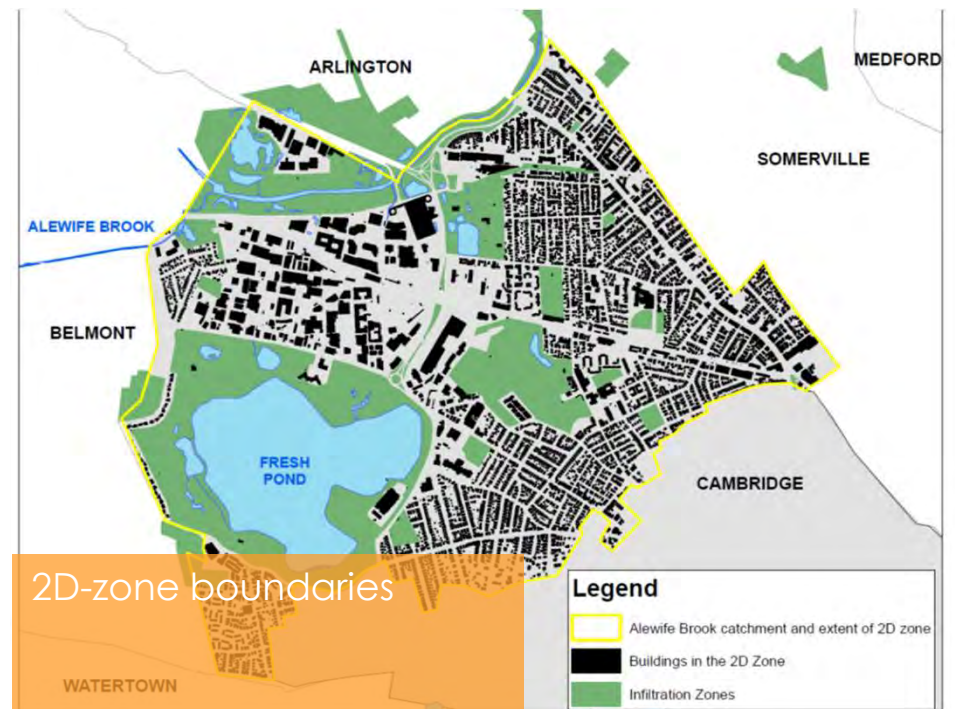
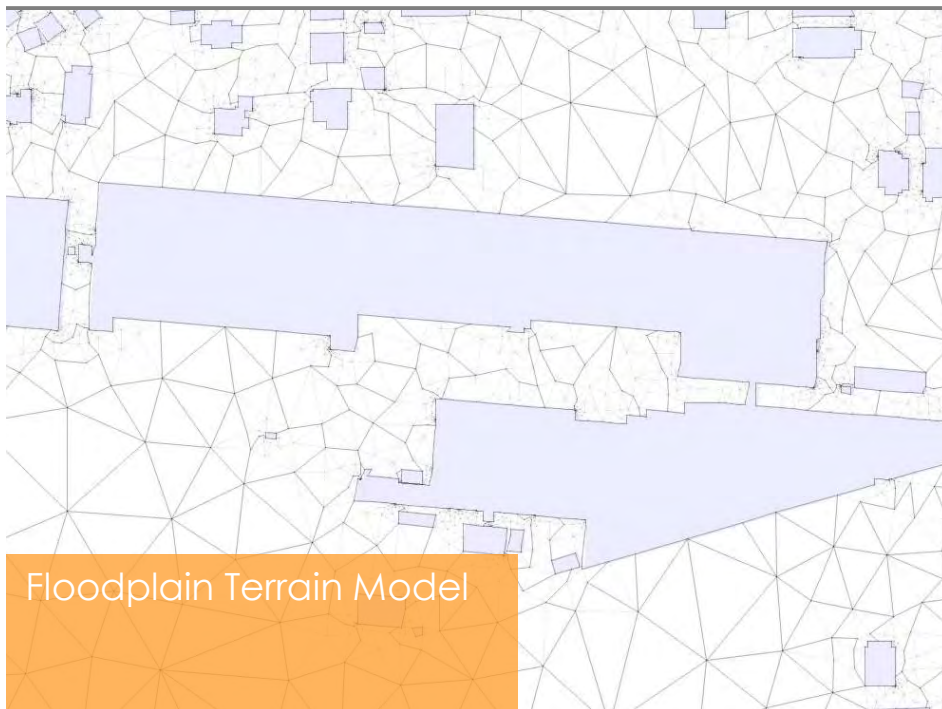
# Mystic River Watershed Model Integration

- Watershed scale riverine geometry and hydrologic catchments directly imported from FEMA model used for FIS
- Pipe model was obtained from Cambridge and MWRA regional sewer model
- Both models were integrated seamlessly
- The Cambridge floodplain was generated with a high resolution 2D grid, which includes flow path obstacles
- Operation of the AED was assumed different than FEMA based on communications and calibration





# Mystic River Watershed Model Integration





# 4 Hydraulic Model Calibration and Validation



Photos courtesy of Cambridge DPW



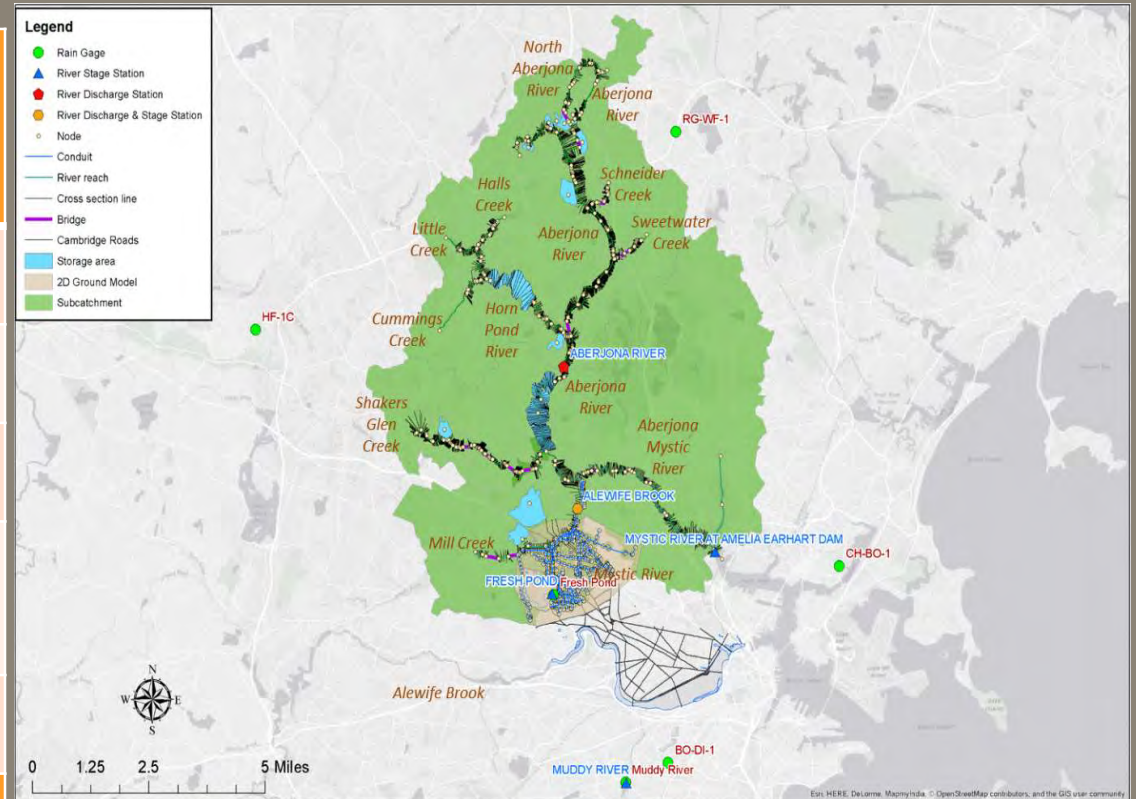
# 4 Hydraulic Model Calibration and Validation- Selected Storms

	March 2010	May 2006
Start Date/Time	13/8:00	12/17:30
End Date/Time	15/21:00	16/18:30
Total Rainfall (in)	9.59*	7.42*
Peak Intensity (in/hour)	1.32	0.60
Return Period**	>50-yr	~>20-yr

\*At Muddy River in Brookline RG

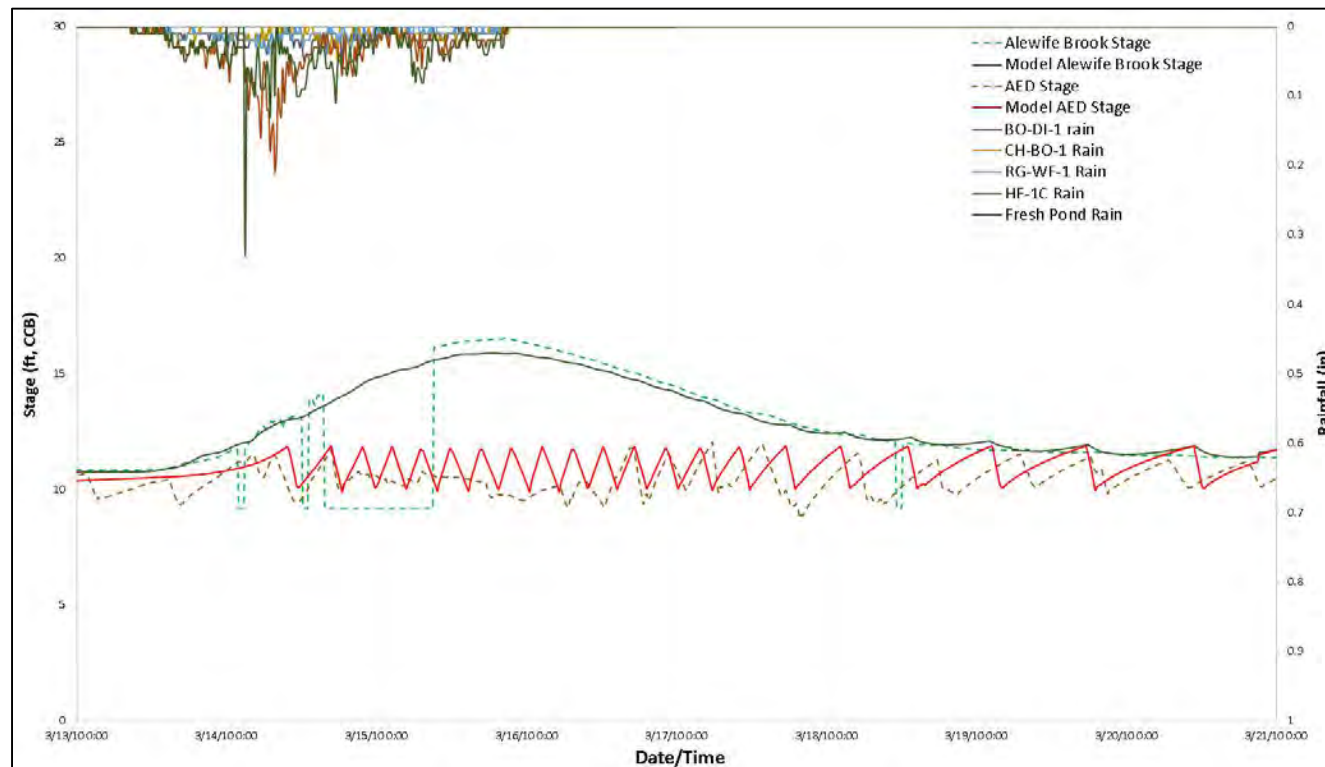
\*\*Based on NOAA Atlas 14 Estimates at Logan

Airport



## 4 Hydraulic Model Calibration -March 2010 River Gages

USGS Station		Model	Meter	Difference (ft)
Alewife Brook	Peak Stage (ft)	15.94	16.52	-0.58
Amelia Earhart Dam	Peak Stage (ft)	11.90	12.05	-0.15



## 4 Hydraulic Model Calibration -March 2010 River Gages

Comparison between metered and modeled flows for the March 2010 storm event.				
USGS Station		Meter	Model	% Difference
Aberjona River	Peak Flow (MGD)	937.16	935.96	-0.1
	Volume (MG)	2957.42	2341.03	-20.8
Alewife Brook	Peak Flow (MGD)	142.72	141.58	-0.8
	Volume (MG)	510.54	532.14	4.2

# 4 Hydraulic Model Calibration -March 2010 Photographic Evidence



Photographs Courtesy of Cambridge DPW



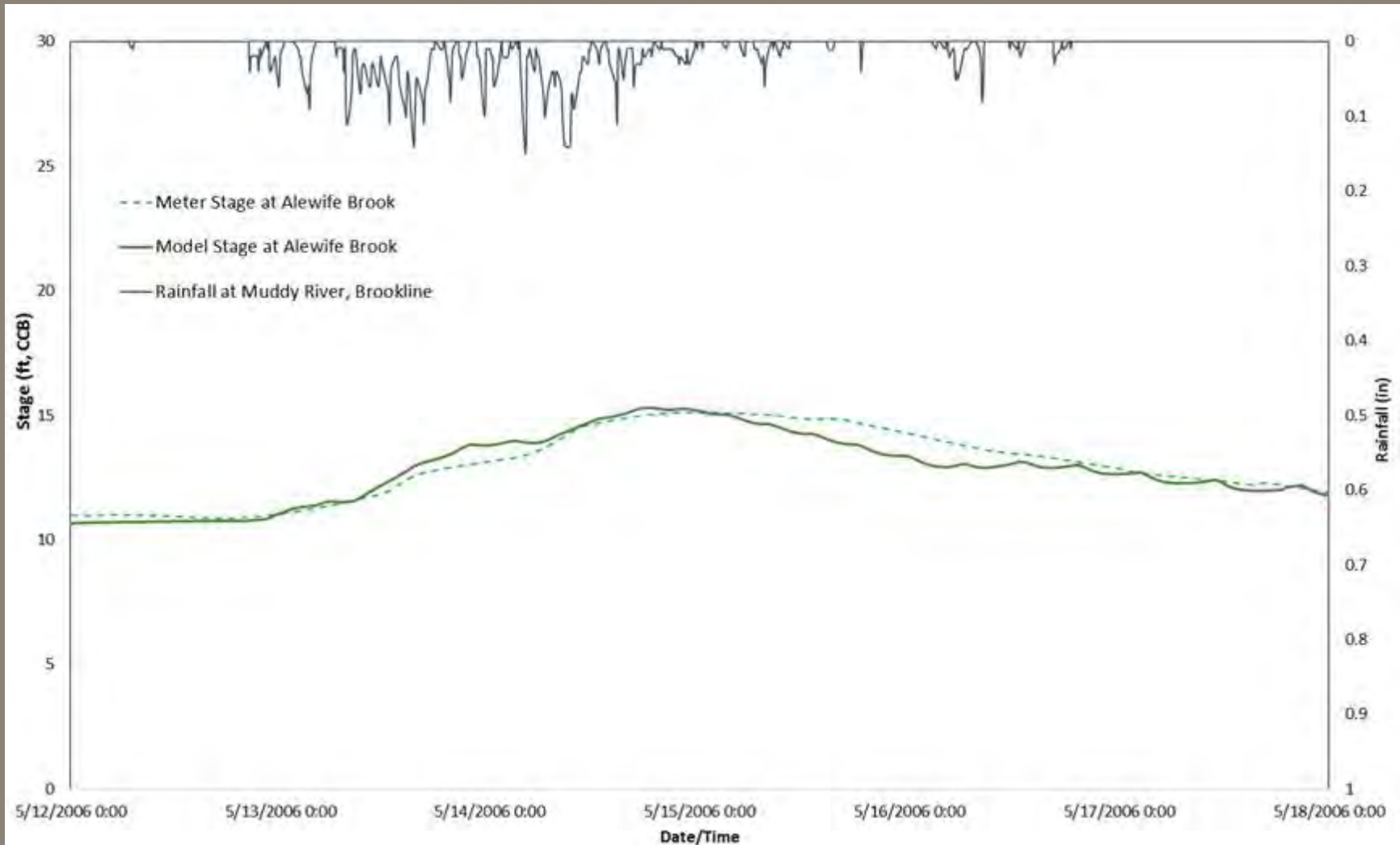
# 4 Hydraulic Model Calibration -March 2010 Photographic Evidence



Photographs Courtesy of Cambridge DPW



# 4 Hydraulic Model Validation -May 2006



## 5 Previous Model Calibration

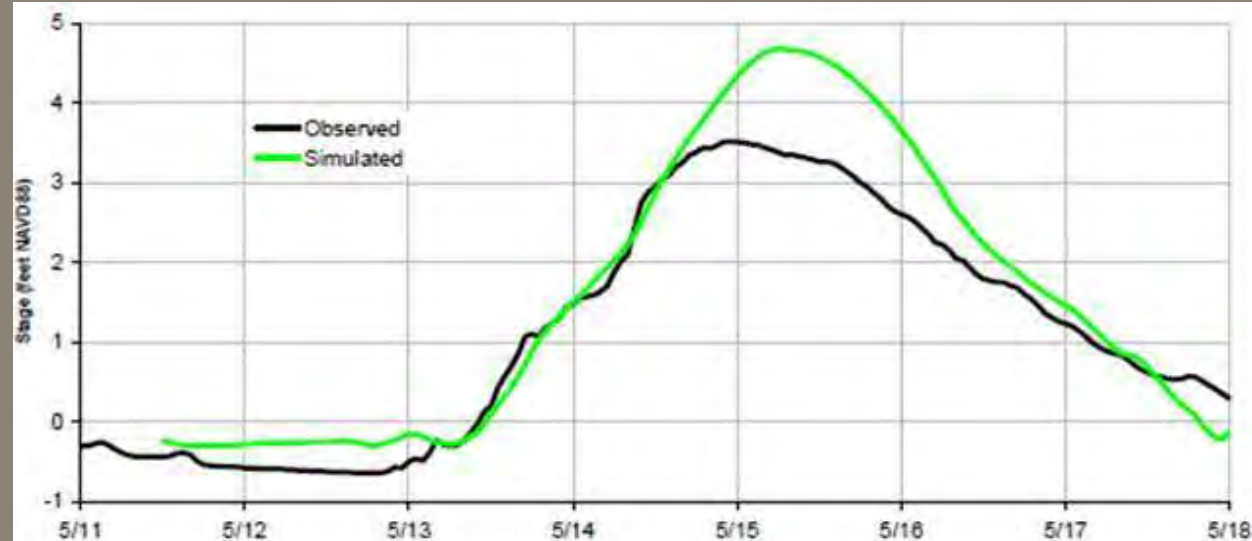


Figure 4: Observed and Simulated Stage for May 2006 Event – Alewife Brook

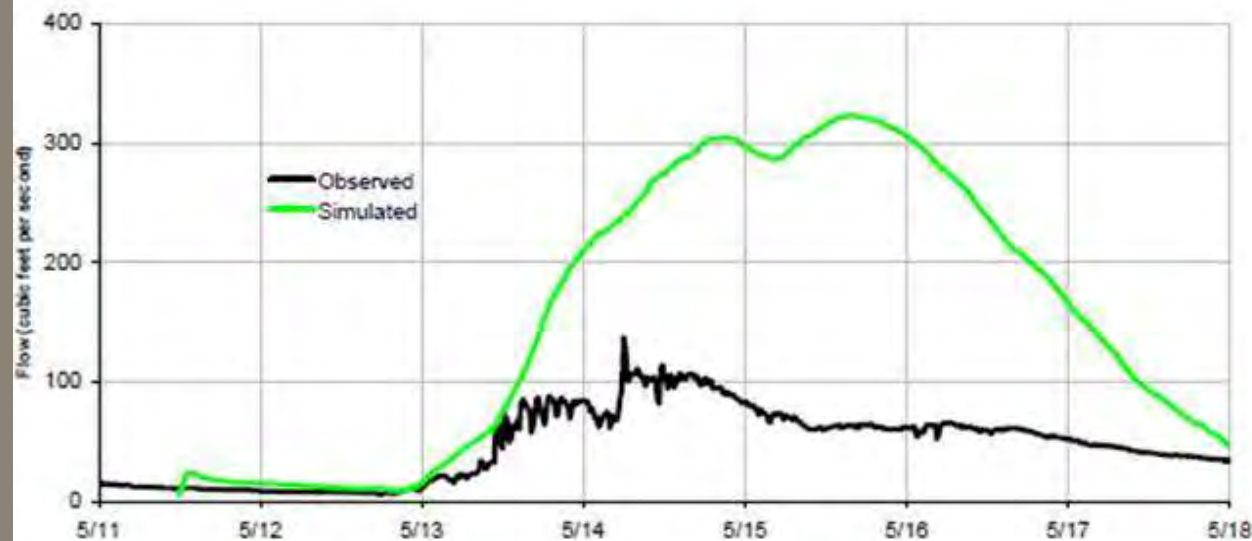








Figure 5: Observed and Simulated Discharge for May 2006 Event – Alewife Brook

## 5 Potential Future Uses













- Forecast flood extents during future precipitation-driven scenarios
- Potential to propagate flooding from SLR/SS events
- Potential to assess combinations of precipitation and SLR/SS seamlessly
- Allow for evaluation of mitigation measures at multiple scales alone and in combination

# 5 List of Potential Local Measures











	Measure	Sewer System Flooding	River Overbank Flooding from Precipitation	River Overbank Flooding from SLR/SSS
Source Controls	Land Use changes			
	Peak flow retention			
Pathway Controls	Flow Storage			
	Flow Transfer			
	Conveyance Capacity Increase			
Receptor Controls	System isolation via berms, walls			



## 5 List of Potential Watershed Measures

Measure	Sewer System Flooding	River Overbank Flooding from Precipitation	River Overbank Flooding from SLR/SSS
Smart Reservoir Management			
Large Scale Land Use Changes			
Removal of Hydraulic Bottlenecks			
Increase in pumping and sluicing output			

## 5 List of Potential Regional Measures

Measure	Sewer System Flooding	River Overbank Flooding from Precipitation	River Overbank Flooding from SLR/SSS
Topographic changes in flanking paths			
Revamp of the AED (raising top of the dam)			
Flow isolation and real-time flow management			
Other large scale projects		Unknown	Unknown

# Conclusions

- The model has been successfully integrated, calibrated, and validated
- It will be used to update the CCVA, Part 1 and inform the CCVA CCPR
- The watershed integrated can be refined with more information from watershed communities
- It can be used for watershed and regional decision making and to evaluate effectiveness of those decisions

# Appendix B

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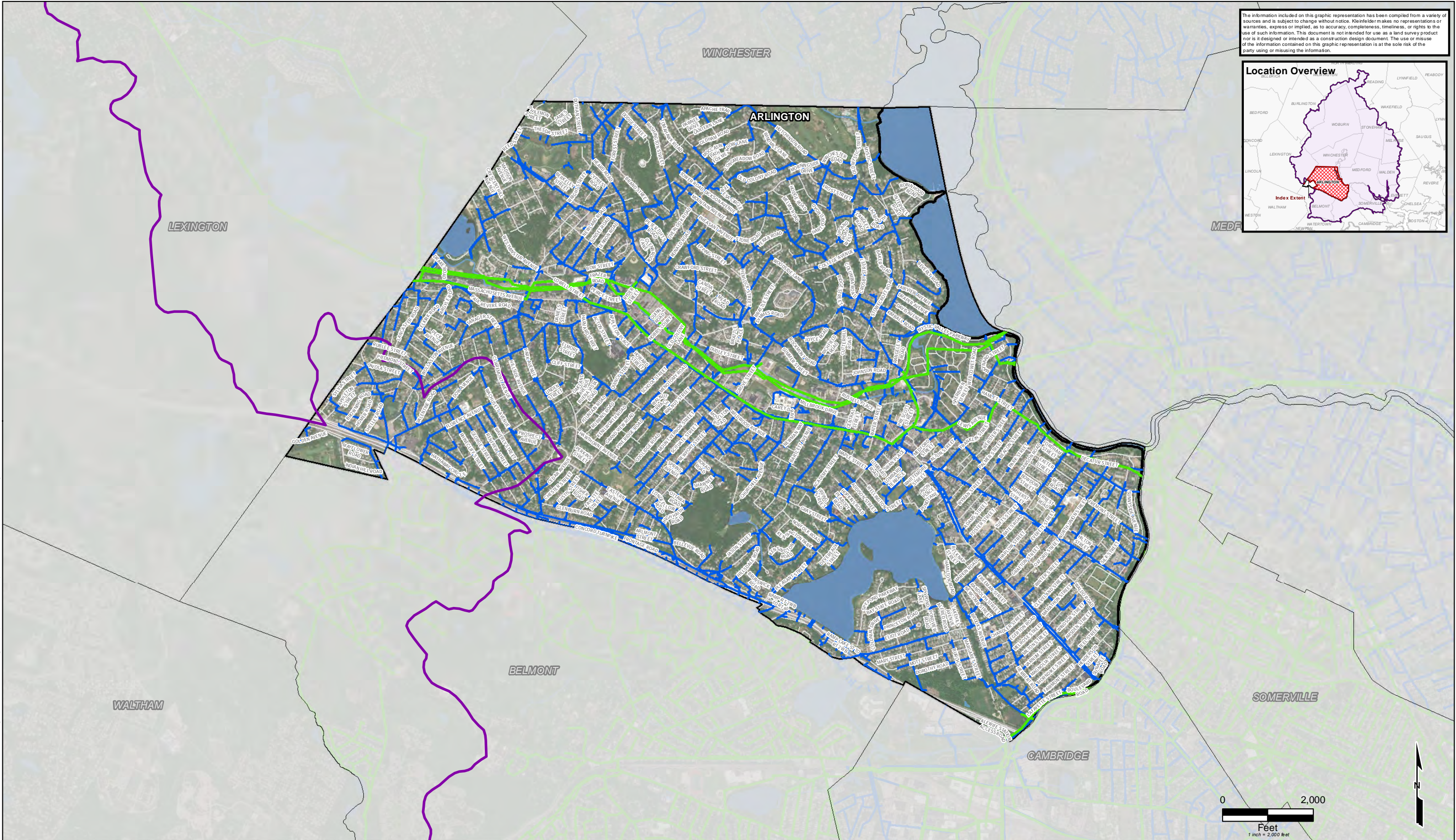
## Task 1-2 Model Updates and Piped Infrastructure



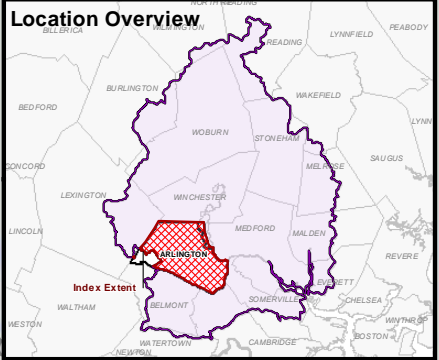
Image credit: MyRWA



Date: 4/17/2020 User: RDelgado Path: \\azrgis\storp01\GIS\_Projects\CientMA\_Cambridge\20201034.004A- Watershed-Wide Analysis and MVP Grant\GIS\MXD\Watershed Drainage + Outfalls.mxd

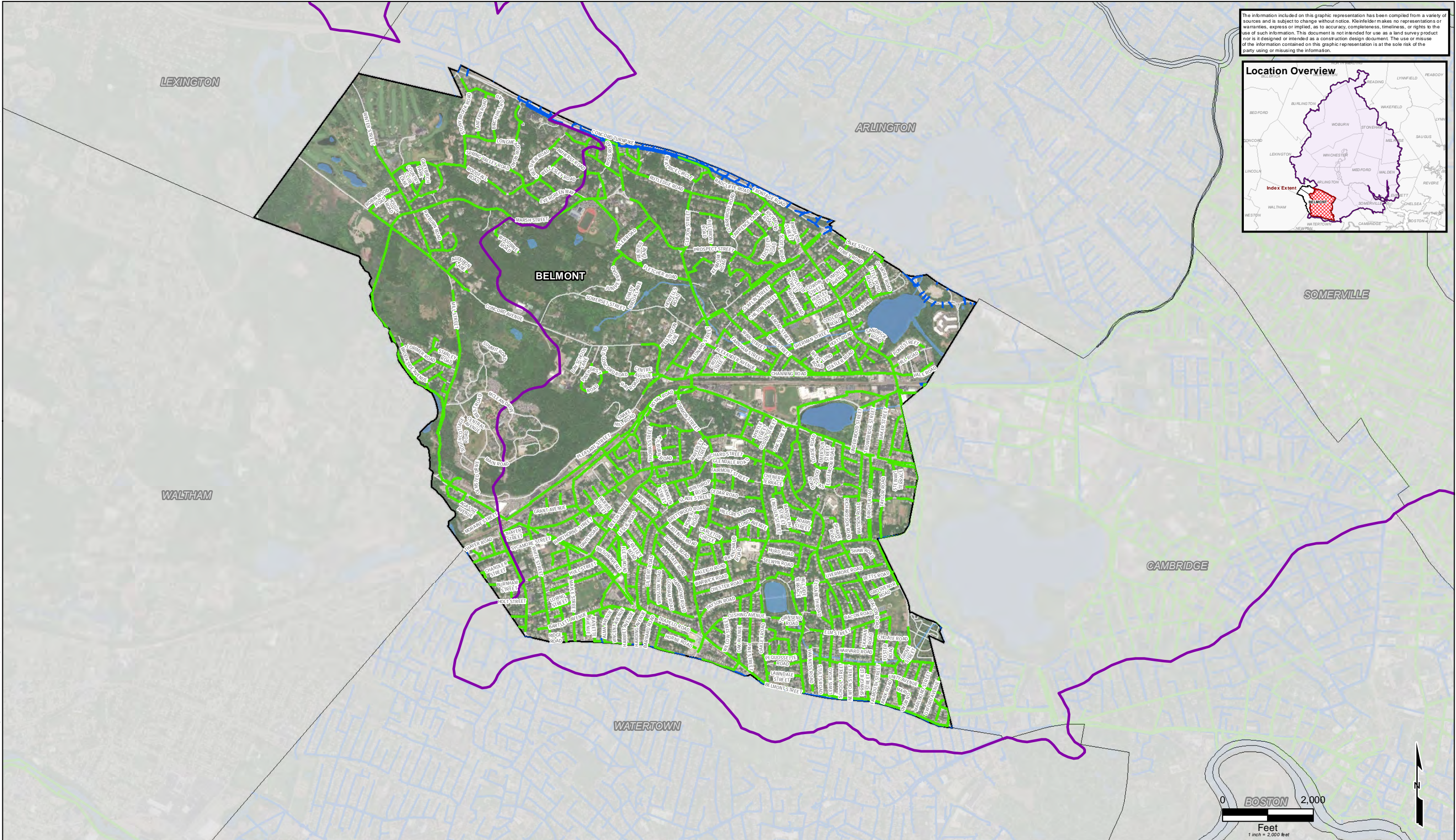


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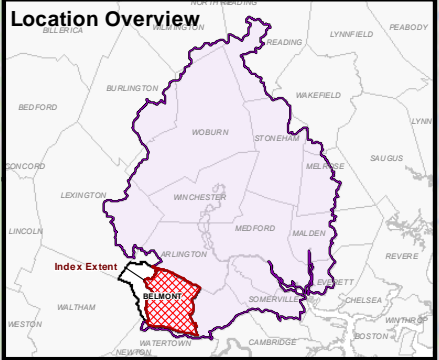


<b>LEGEND</b> Upper Mystic River Watershed — Stormwater Drain Main Town Boundary Modeled Pipes		<b>NOTE:</b> "Modeled Pipes" depict piped infrastructure that has been integrated into the regional model update as of January 2020. GIS data availability or constraints (such as pipe size data) limited the application of a standard pipe size threshold for import into the model. The pipes/structures included represent major storm sewers, typically >16", that contribute stormwater runoff to Upper Mystic tributaries or the Mystic River main channel.	PROJECT NO. 20201034.004A CREATED: 4/17/2020 CREATED BY: RDelgado CHECKED BY: CP/KEJ FILE NAME: Watershed Drainage + Outfalls.mxd	Mystic Watershed Hydraulic Model: ARLINGTON  Mystic Watershed-Wide Analysis and MVP Grant Storm Drain System Overview Map Per Town ARLINGTON, MA	FIGURE 1 of 17
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**LEGEND**

- Upper Mystic River Watershed
- Stormwater Drain Main
- Town Boundary
- Modeled Pipes

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PROJECT NO. 20201034.004A

CREATED: 4/17/2020

CREATED BY: RDelgado

CHECKED BY: CP/KEJ

FILE NAME:

Watershed Drainage + Outfalls.mxd

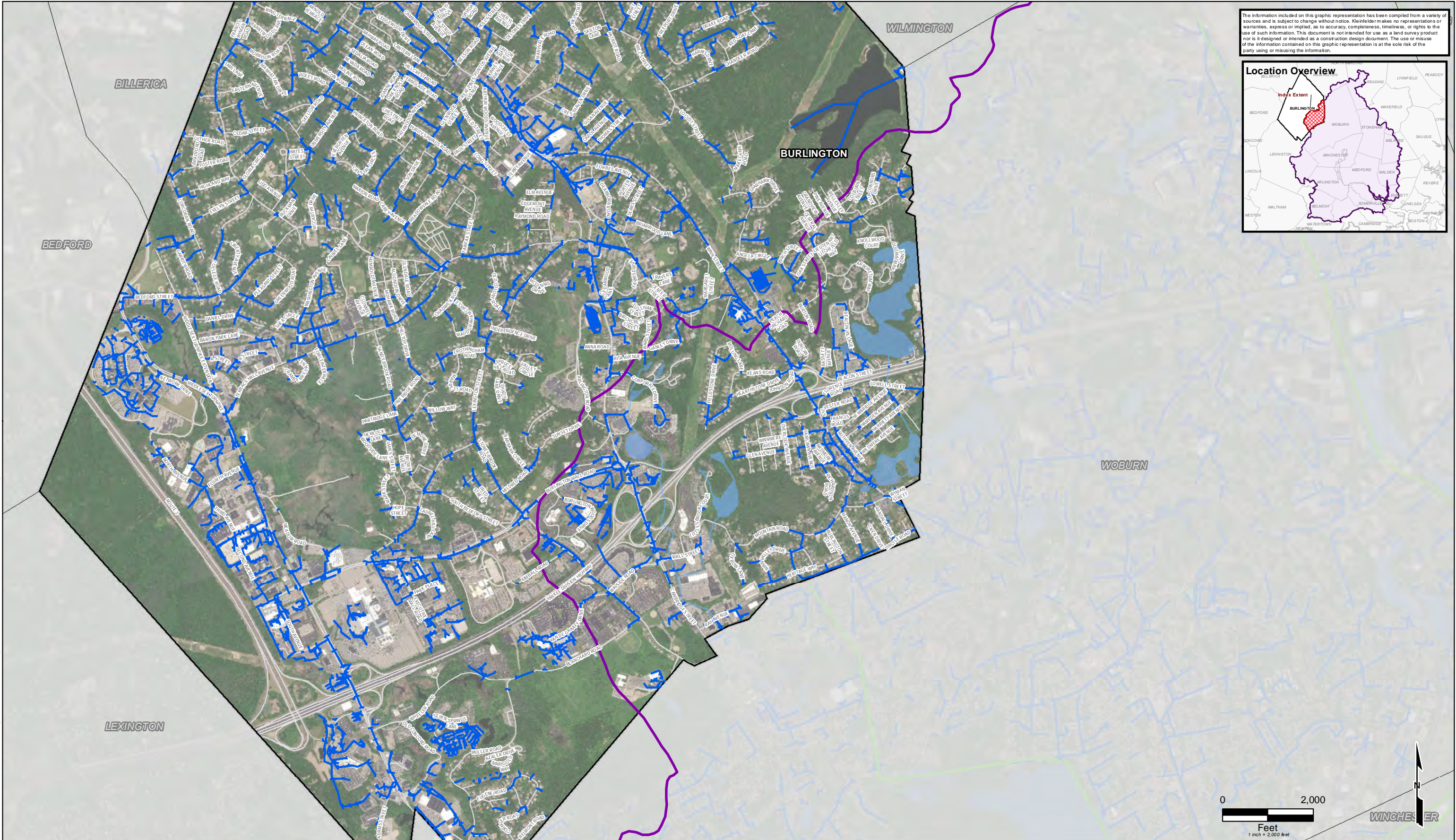
Mystic Watershed Hydraulic Model:  
BELMONT

Mystic Watershed-Wide Analysis and MVP Grant  
Storm Drain System Overview Map  
Per Town  
BELMONT, MA

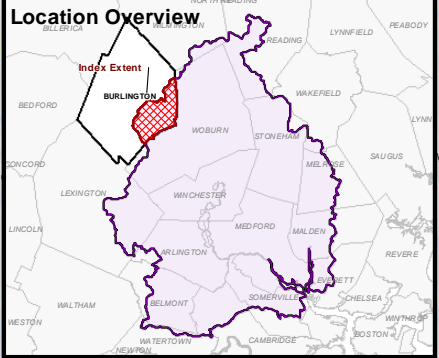
FIGURE

2  
of 17





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**LEGEND**

- Upper Mystic River Watershed
- Stormwater Drain Main
- Town Boundary
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PROJECT NO. 20201034.004A

CREATED: 4/17/2020

CREATED BY: RDelgado

CHECKED BY: CP/KEJ

FILE NAME:

Watershed Drainage + Outfalls.mxd

Mystic Watershed Hydraulic Model:  
BURLINGTON

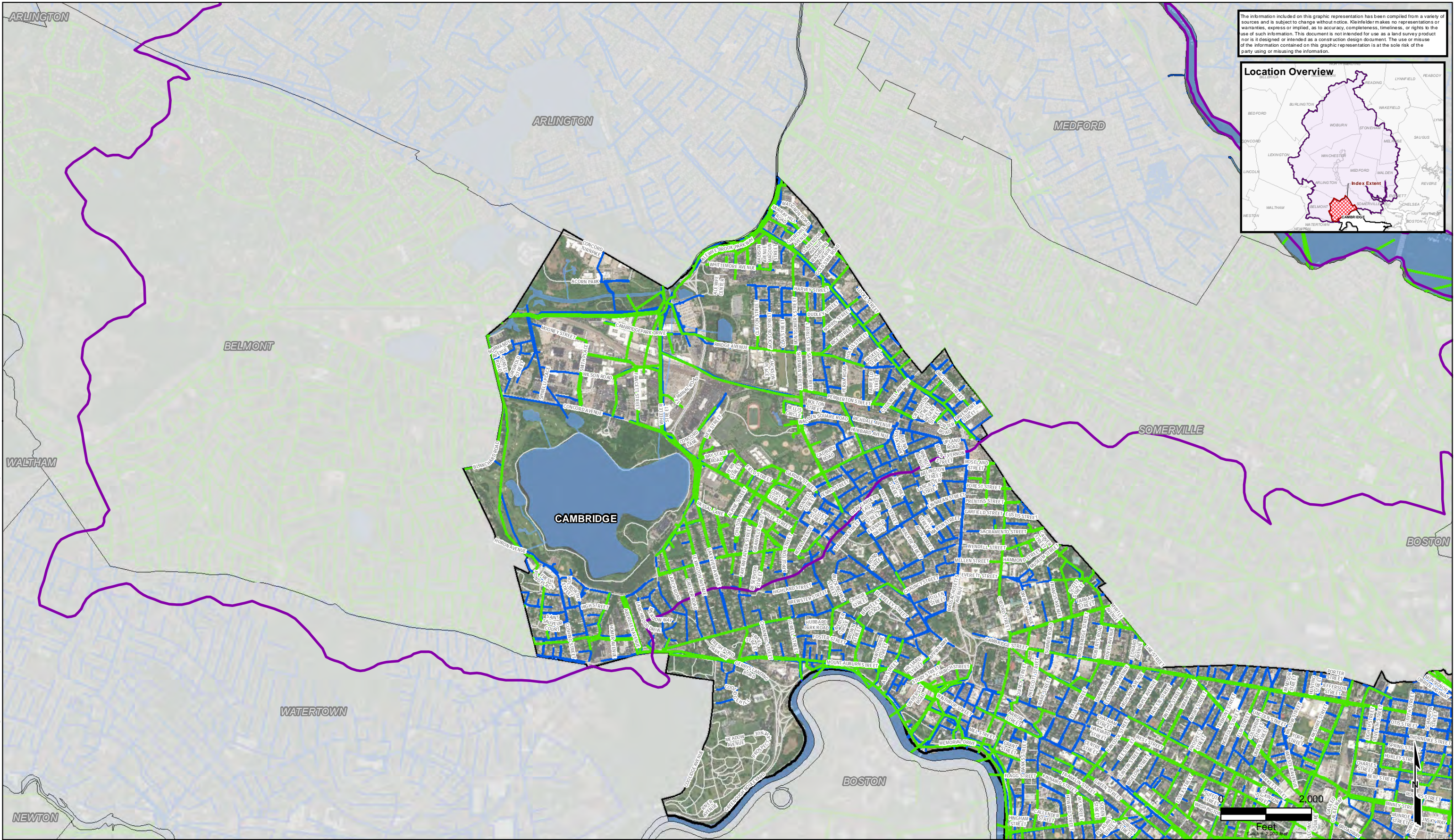
Mystic Watershed-Wide Analysis and MVP Grant  
Storm Drain System Overview Map  
Per Town  
BURLINGTON, MA

FIGURE

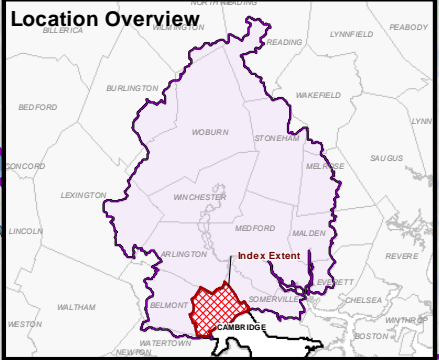
3  
of 17



Date: 4/17/2020 User: RDelgado Path: \\azrgisstor01\GIS\_Projects\Client\MA\_Cambridge\20201034.004A- Watershed-Wide Analysis and MVP Grant\GISMXDWatershed Drainage + Outfalls.mxd



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- LEGEND**
- Upper Mystic River Watershed
  - Stormwater Drain Main
  - Town Boundary
  - Modeled Pipes

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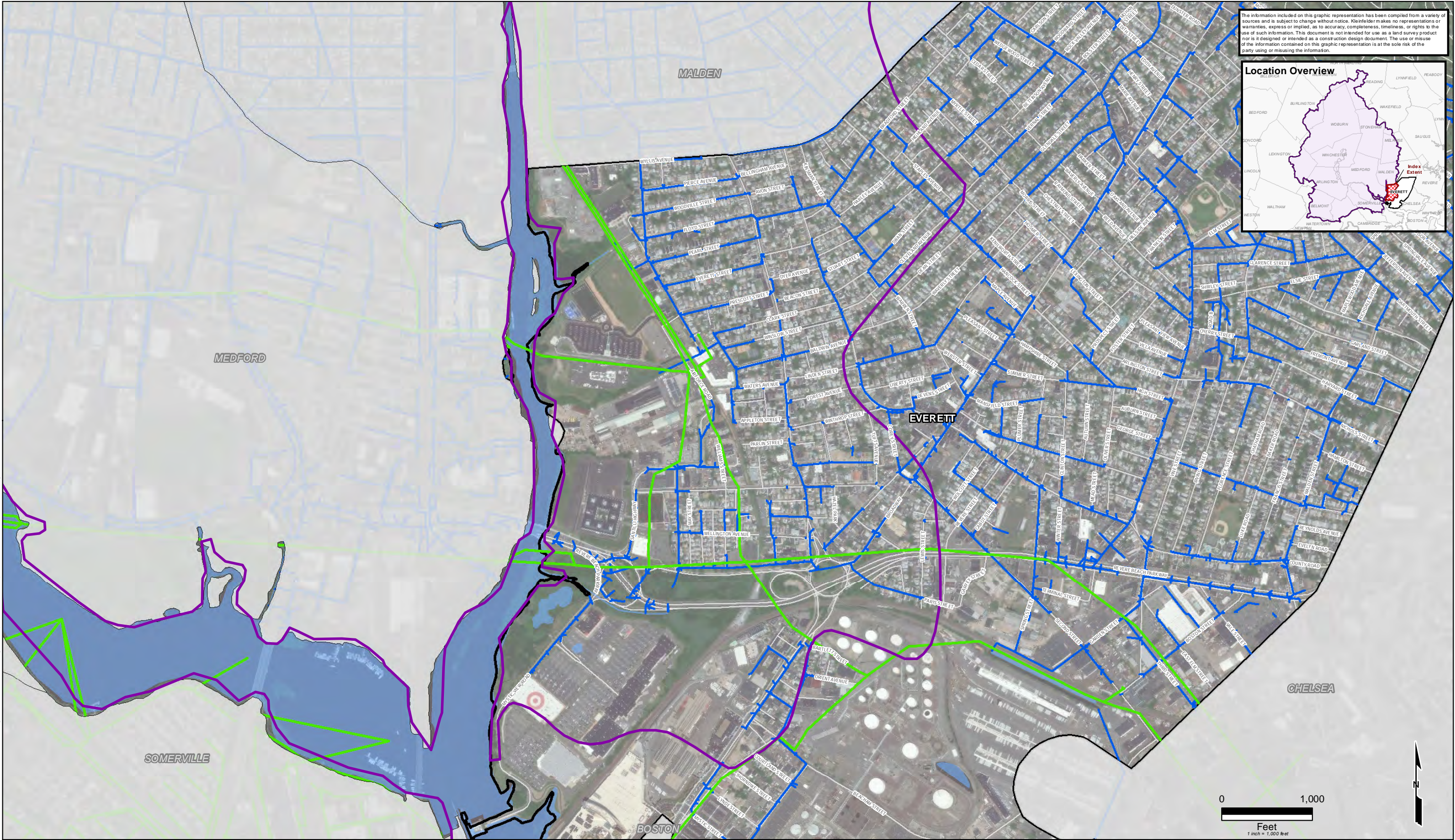
PROJECT NO. 20201034.004A  
CREATED: 4/17/2020  
CREATED BY: RDelgado  
CHECKED BY: CP/KEJ  
FILE NAME: Watershed Drainage + Outfalls.mxd

Mystic Watershed Hydraulic Model:  
CAMBRIDGE  
Mystic Watershed-Wide Analysis and MVP Grant  
Storm Drain System Overview Map  
Per Town  
CAMBRIDGE, MA

FIGURE  
4  
of 17



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**LEGEND**

- Upper Mystic River Watershed
- Stormwater Drain Main
- Town Boundary
- Modeled Pipes

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PROJECT NO. 20201034.004A

CREATED: 4/17/2020

CREATED BY: RDelgado

CHECKED BY: CP/KEJ

FILE NAME:

Watershed Drainage + Outfalls.mxd

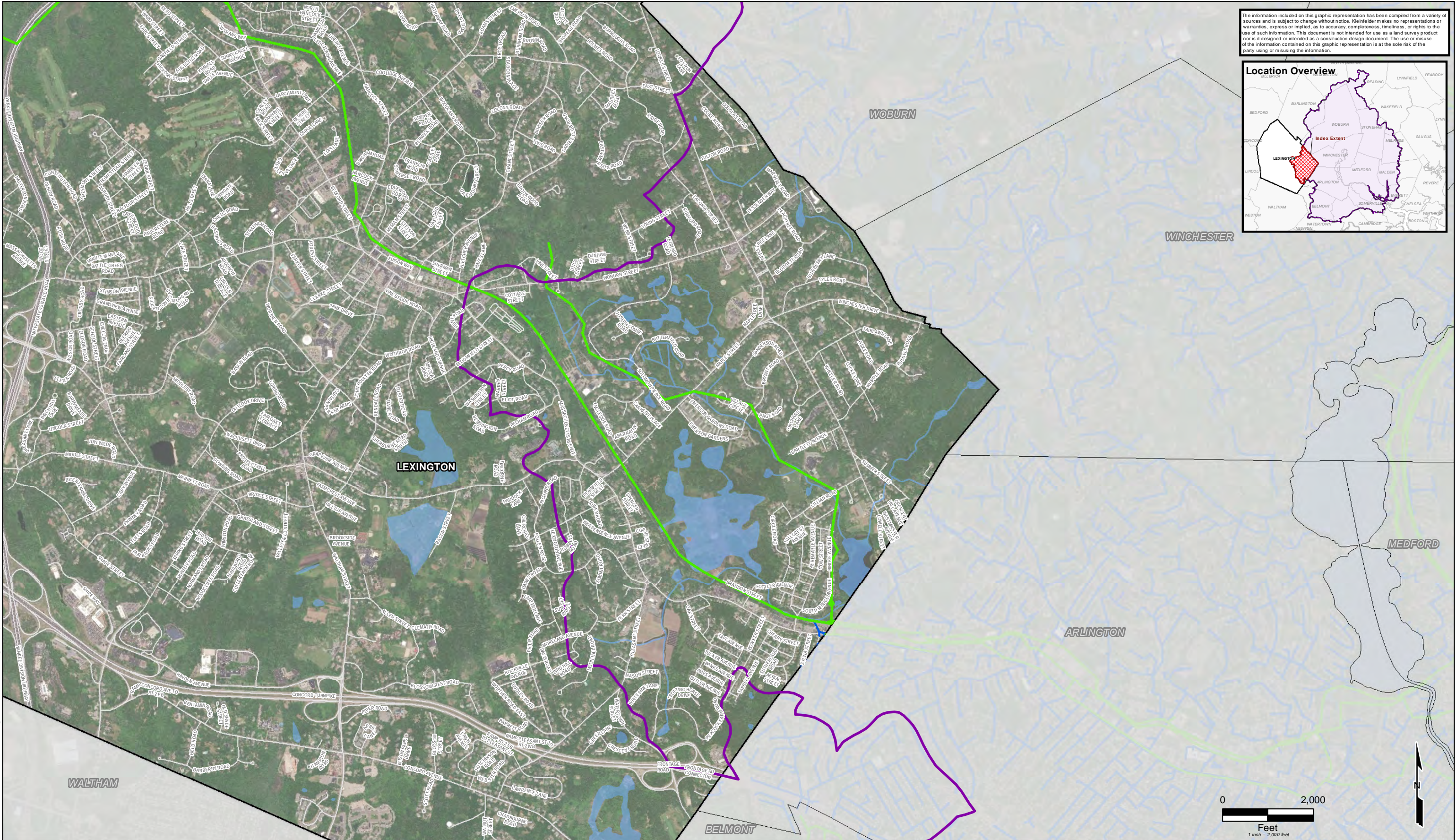
Mystic Watershed Hydraulic Model:  
EVERETT

Mystic Watershed-Wide Analysis and MVP Grant  
Storm Drain System Overview Map  
Per Town  
EVERETT, MA

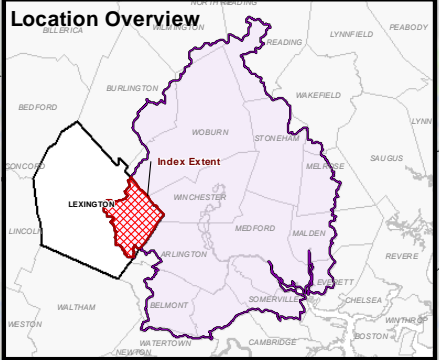
FIGURE

5  
of 17





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**LEGEND**

- Upper Mystic River Watershed
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PROJECT NO. 20201034.004A

CREATED: 4/17/2020

CREATED BY: RDelgado

CHECKED BY: CP/KEJ

FILE NAME:

Watershed Drainage + Outfalls.mxd

Mystic Watershed Hydraulic Model:  
LEXINGTON

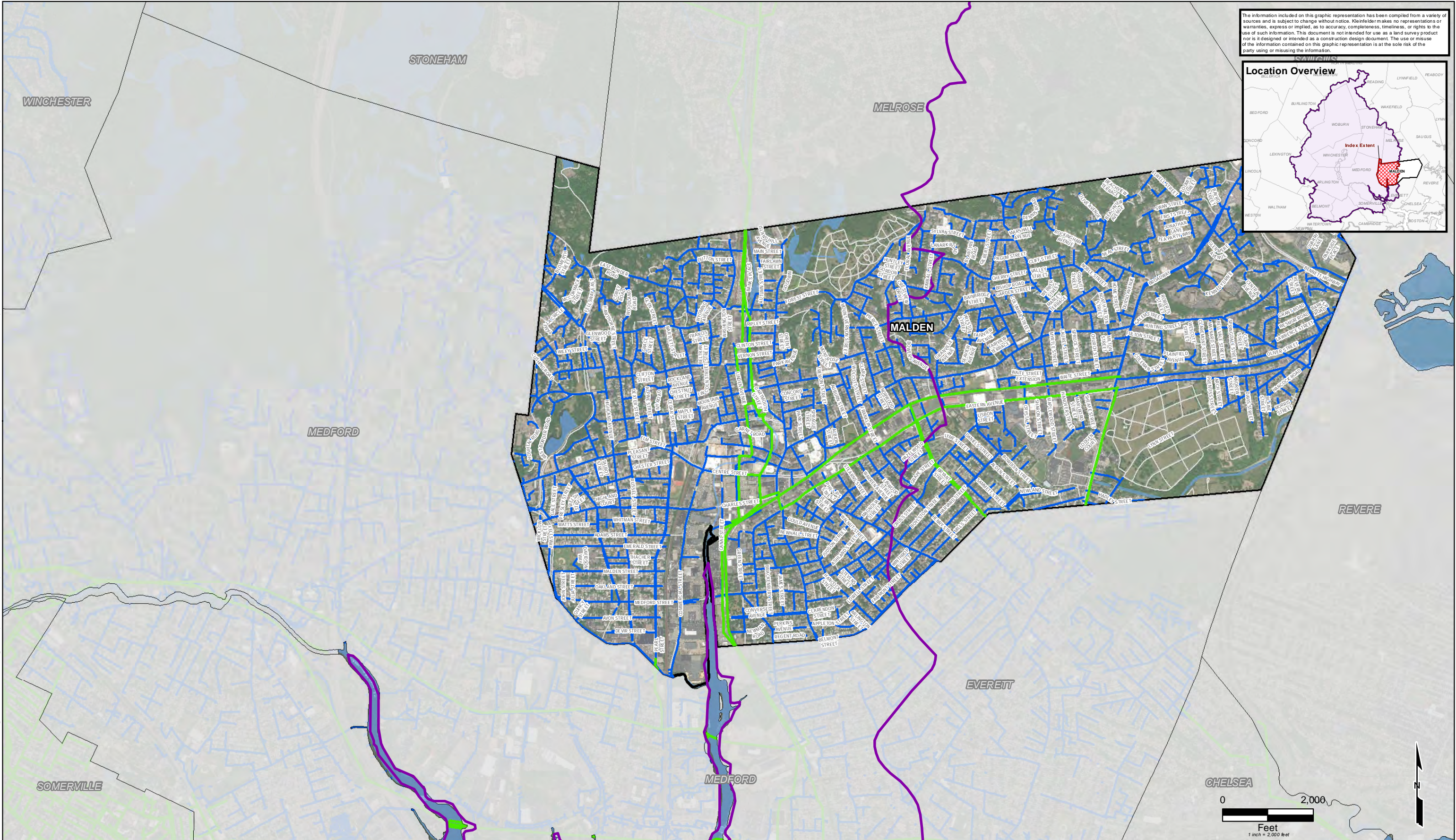
Mystic Watershed-Wide Analysis and MVP Grant  
Storm Drain System Overview Map  
Per Town  
LEXINGTON, MA

FIGURE

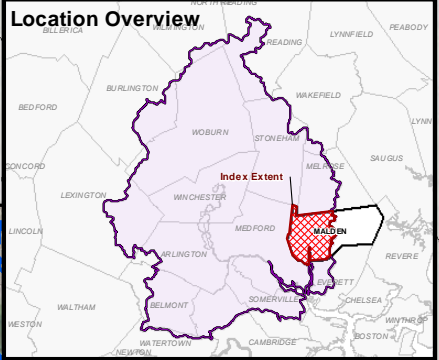
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of 17



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- LEGEND**
- Upper Mystic River Watershed
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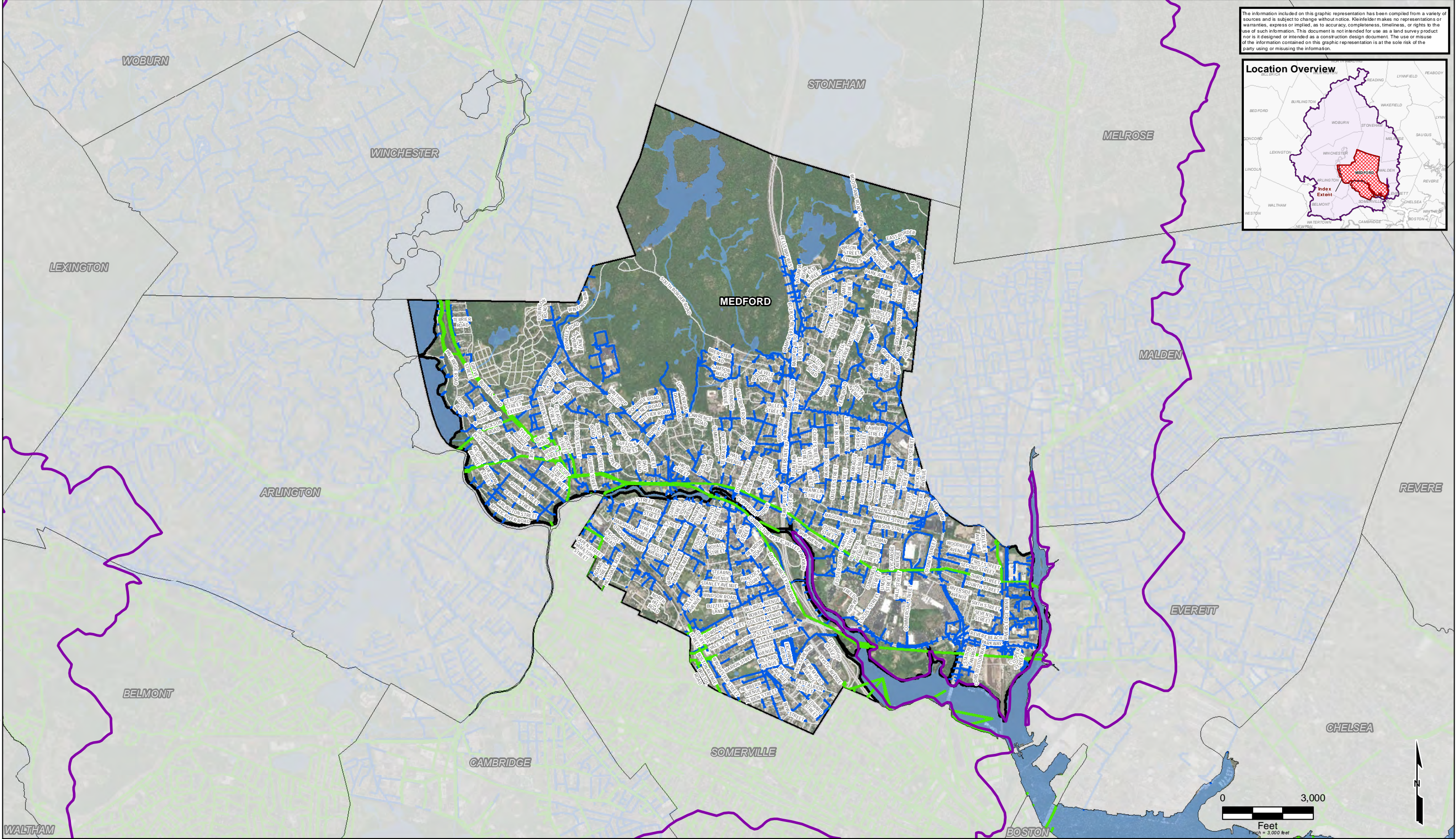
PROJECT NO. 20201034.004A  
CREATED: 4/17/2020  
CREATED BY: RDelgado  
CHECKED BY: CP/KEJ  
FILE NAME: Watershed Drainage + Outfalls.mxd

Mystic Watershed Hydraulic Model:  
MALDEN  
Mystic Watershed-Wide Analysis and MVP Grant  
Storm Drain System Overview Map  
Per Town  
MALDEN, MA

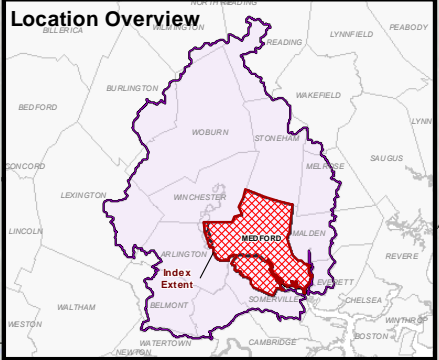
FIGURE  
7  
of 17



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**LEGEND**

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PROJECT NO. 20201034.004A

CREATED: 4/17/2020

CREATED BY: RDelgado

CHECKED BY: CP/KEJ

FILE NAME:

Watershed Drainage + Outfalls.mxd

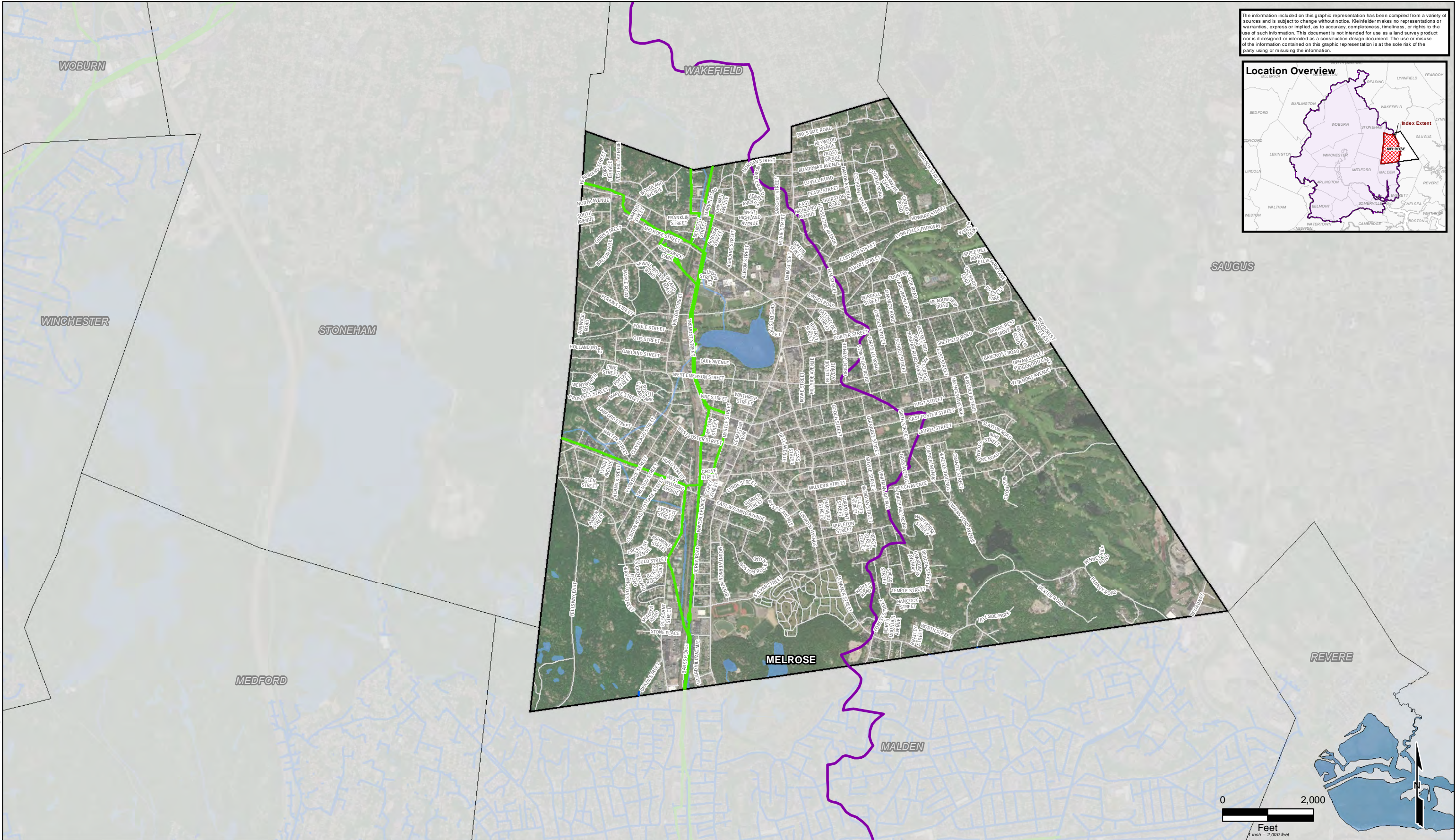
Mystic Watershed Hydraulic Model:  
MEDFORD

Mystic Watershed-Wide Analysis and MVP Grant  
Storm Drain System Overview Map  
Per Town  
MEDFORD, MA

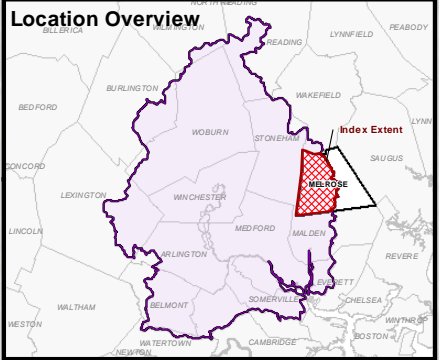
FIGURE

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of 17





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PROJECT NO. 20201034.004A

CREATED: 4/17/2020

CREATED BY: RDelgado

CHECKED BY: CP/KEJ

FILE NAME:

Watershed Drainage + Outfalls.mxd

Mystic Watershed Hydraulic Model:  
MELROSE

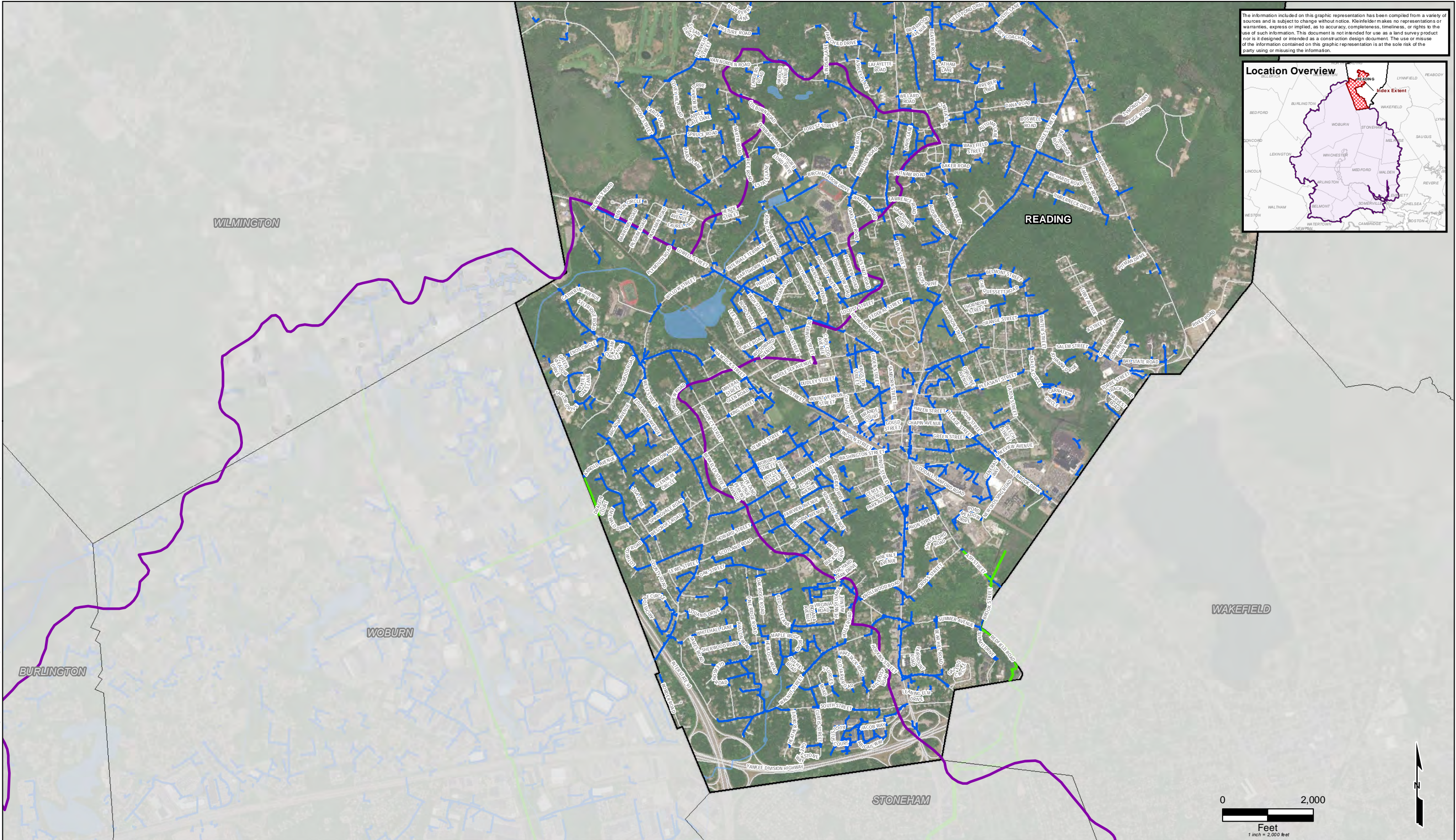
Mystic Watershed-Wide Analysis and MVP Grant  
Storm Drain System Overview Map  
Per Town  
MELROSE, MA

FIGURE

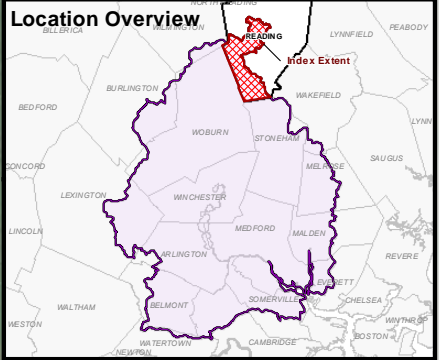
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of 17



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FILE NAME:

Watershed Drainage + Outfalls.mxd

Mystic Watershed Hydraulic Model:  
READING

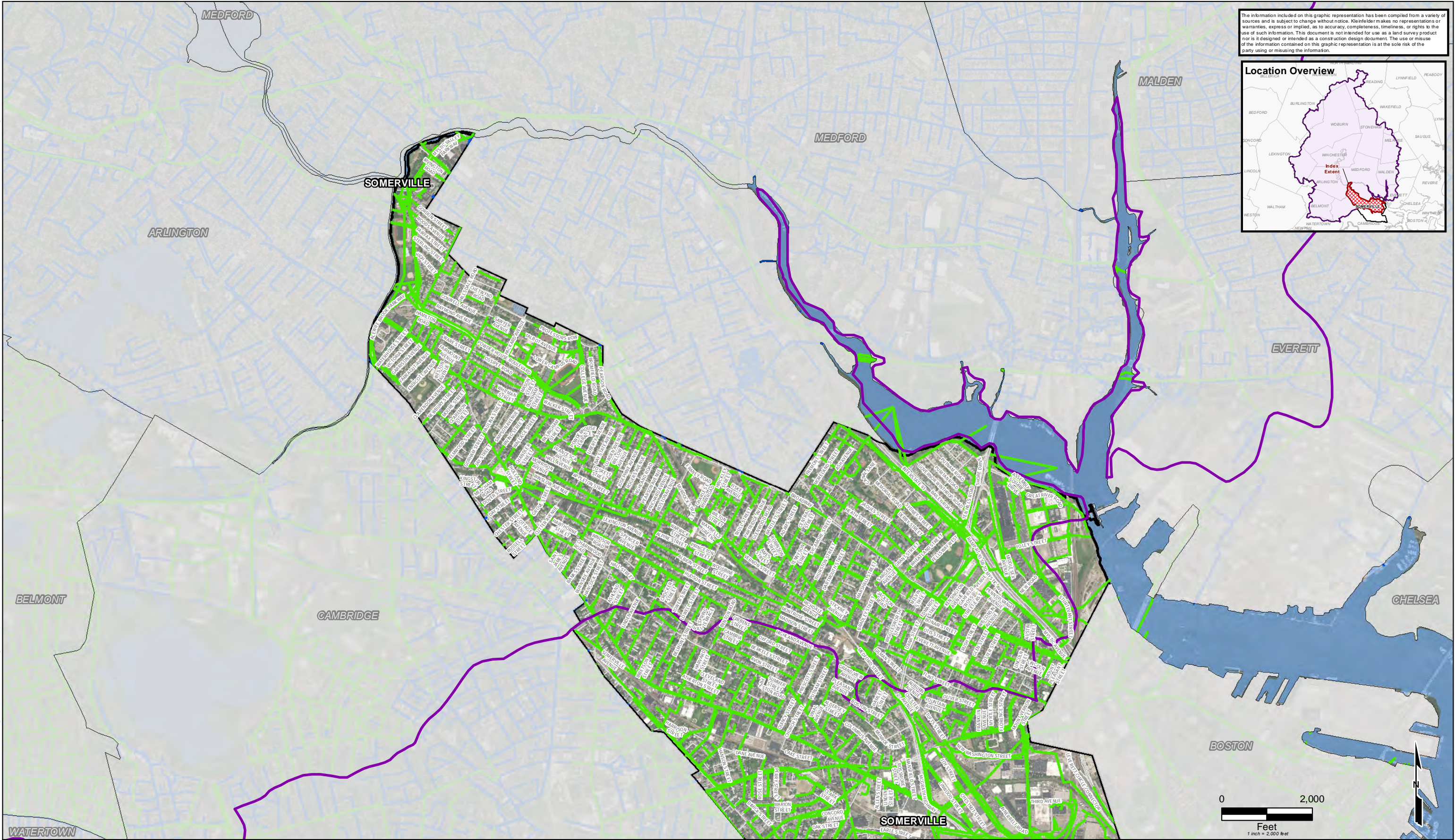
Mystic Watershed-Wide Analysis and MVP Grant  
Storm Drain System Overview Map  
Per Town  
READING, MA

FIGURE

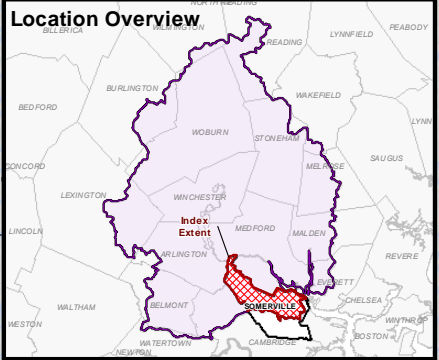
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of 17



Date: 4/17/2020 User: RDelgado Path: \\azrgisstor01\GIS\_Projects\Client\MA\_Cambridge\20201034.004A- Watershed-Wide Analysis and MVP Grant\GIS\MXD\Watershed Drainage + Outfalls.mxd



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CREATED: 4/17/2020

CREATED BY: RDelgado

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FILE NAME:

Watershed Drainage + Outfalls.mxd

Mystic Watershed Hydraulic Model:  
SOMERVILLE

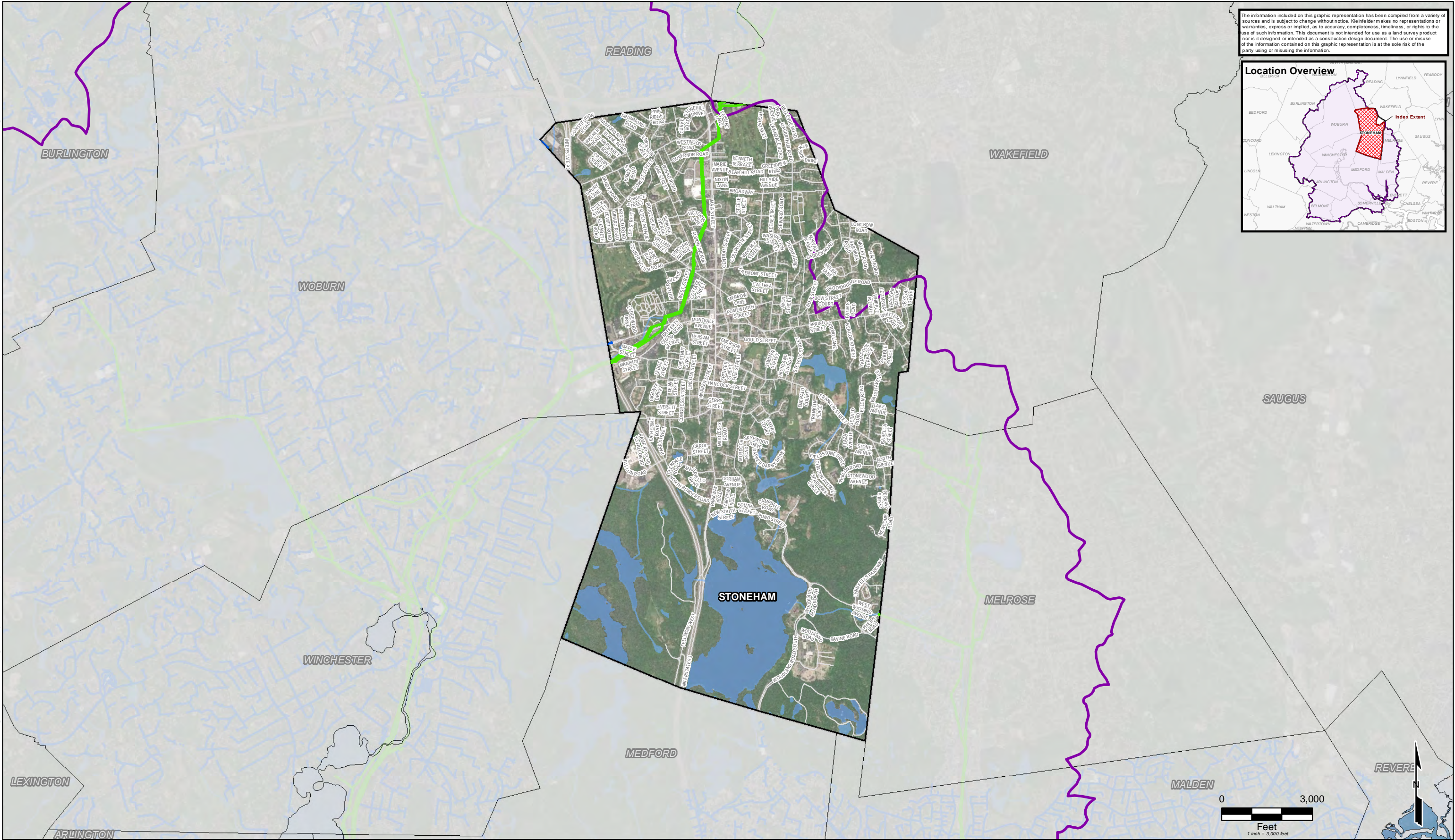
Mystic Watershed-Wide Analysis and MVP Grant  
Storm Drain System Overview Map  
Per Town  
SOMERVILLE, MA

FIGURE

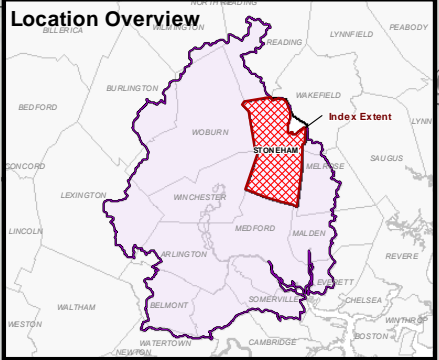
11  
of 17



Date: 4/17/2020 User: RDelgado Path: \\azrgisstor01\GIS\_Projects\CientMA\_Cambridge\20201034.004A- Watershed-Wide Analysis and MVP Grant\GISMXD\Watershed Drainage + Outfalls.mxd



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**LEGEND**

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CREATED: 4/17/2020

CREATED BY: RDelgado

CHECKED BY: CP/KEJ

FILE NAME:

Watershed Drainage + Outfalls.mxd

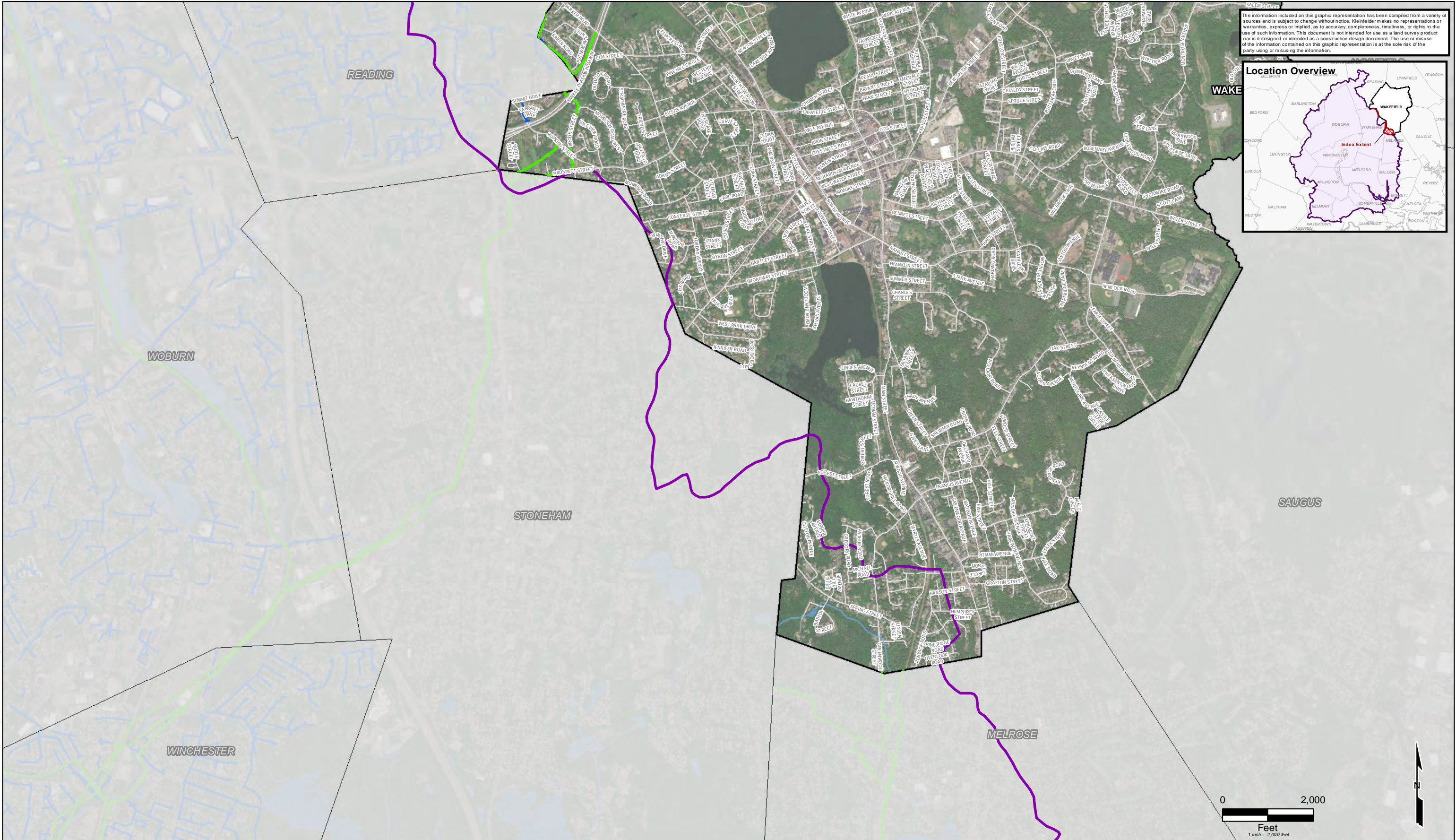
Mystic Watershed Hydraulic Model:  
STONEHAM

Mystic Watershed-Wide Analysis and MVP Grant  
Storm Drain System Overview Map  
Per Town  
STONEHAM, MA

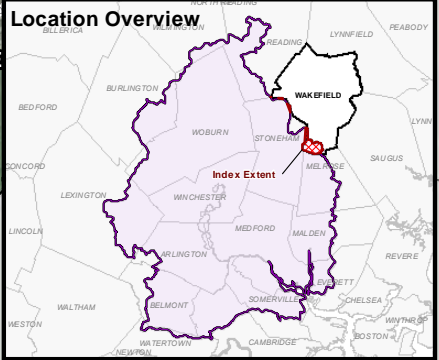
FIGURE

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of 17





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**LEGEND**

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PROJECT NO. 20201034.004A

CREATED: 4/17/2020

CREATED BY: RDelgado

CHECKED BY: CP/KEJ

FILE NAME:

Watershed Drainage + Outfalls.mxd

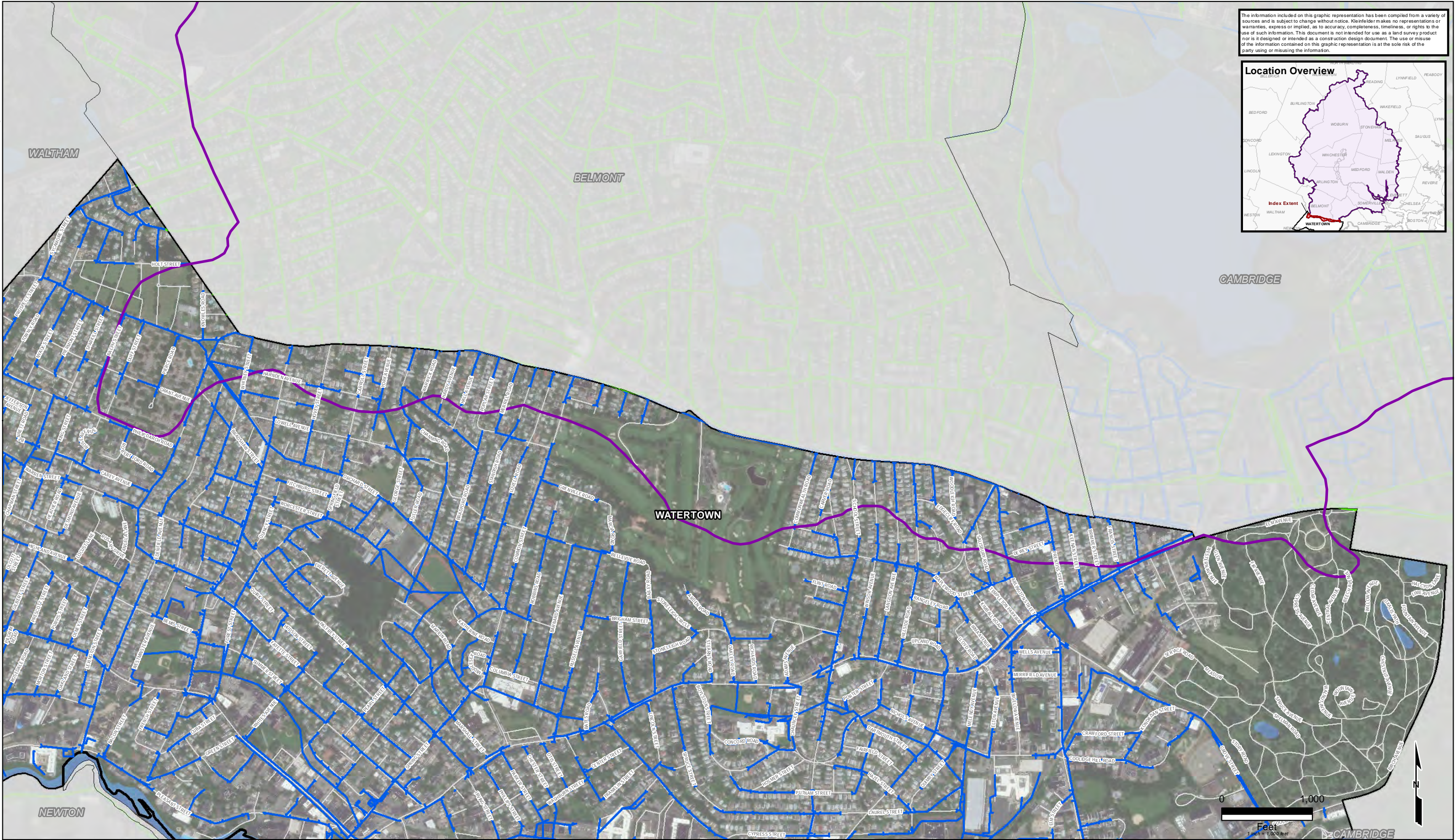
Mystic Watershed Hydraulic Model:  
WAKEFIELD

Mystic Watershed-Wide Analysis and MVP Grant  
Storm Drain System Overview Map  
Per Town  
WAKEFIELD, MA

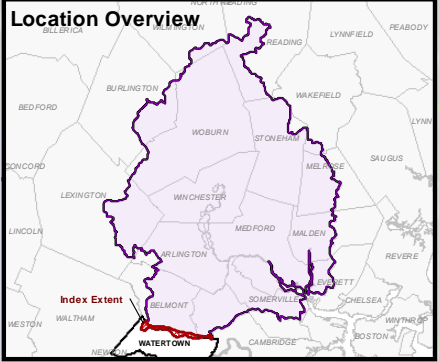
FIGURE

13  
of 17





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**LEGEND**

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- Town Boundary
- Modeled Pipes

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CREATED: 4/17/2020

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FILE NAME:

Watershed Drainage + Outfalls.mxd

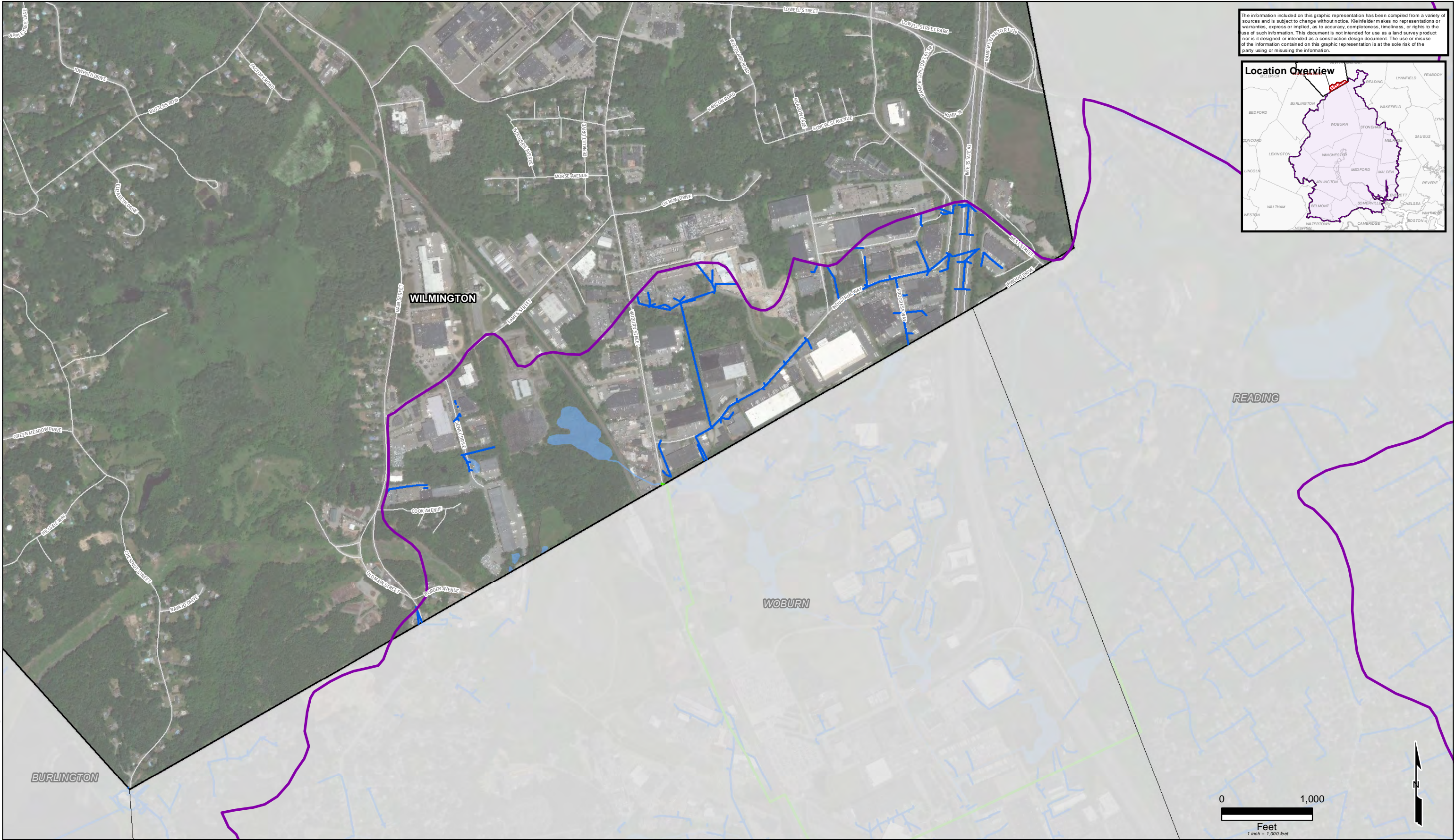
Mystic Watershed Hydraulic Model:  
WATERTOWN

Mystic Watershed-Wide Analysis and MVP Grant  
Storm Drain System Overview Map  
Per Town  
WATERTOWN, MA

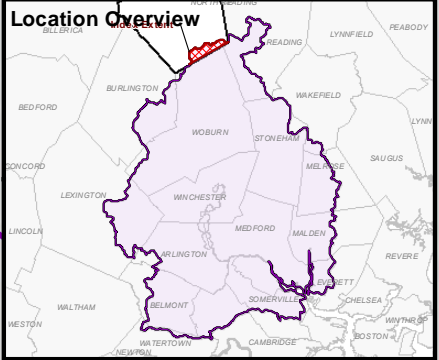
FIGURE

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of 17





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**LEGEND**

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CREATED: 4/17/2020

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Watershed Drainage + Outfalls.mxd

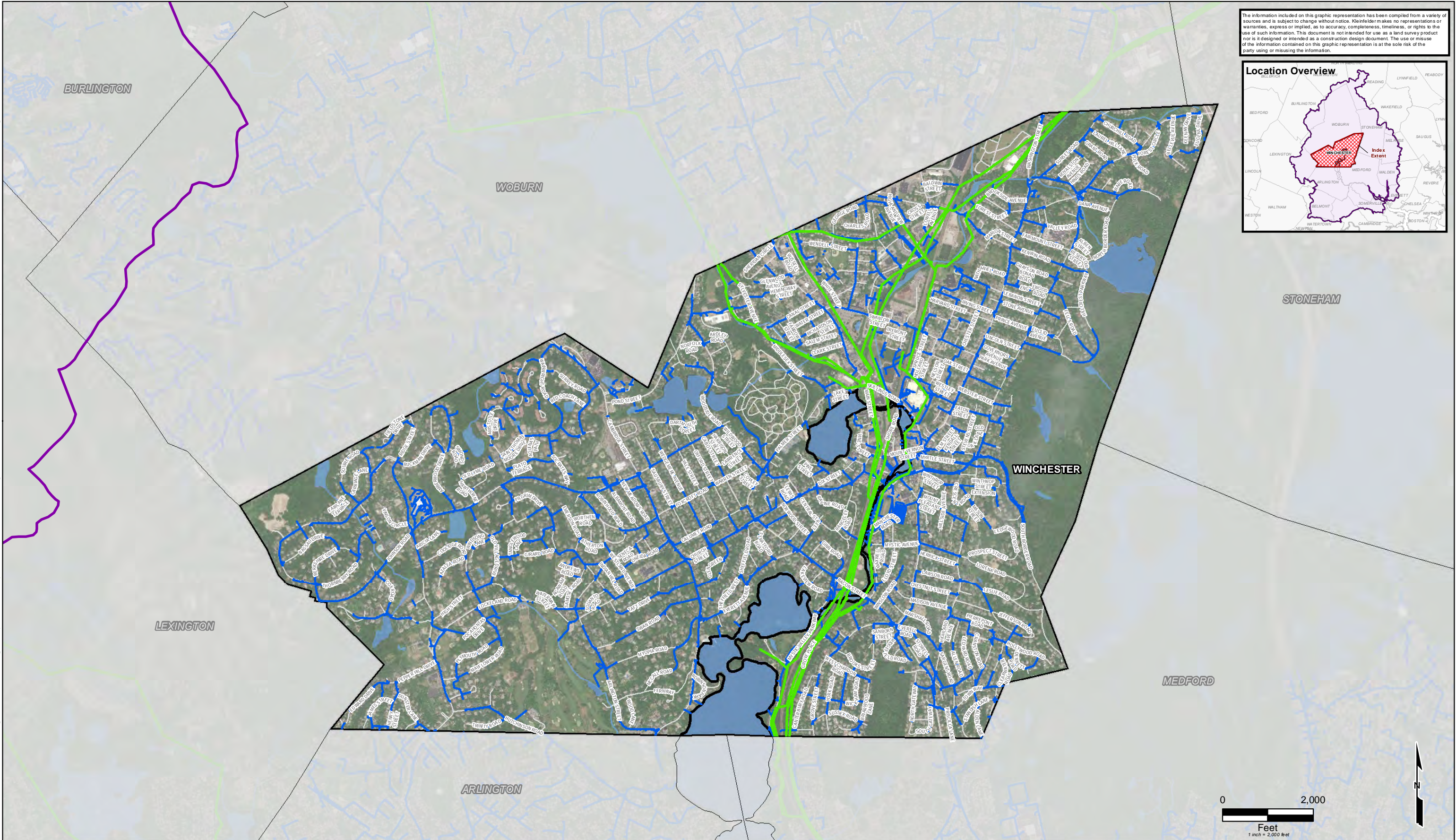
Mystic Watershed Hydraulic Model:  
WILMINGTON

Mystic Watershed-Wide Analysis and MVP Grant  
Storm Drain System Overview Map  
Per Town  
WILMINGTON, MA

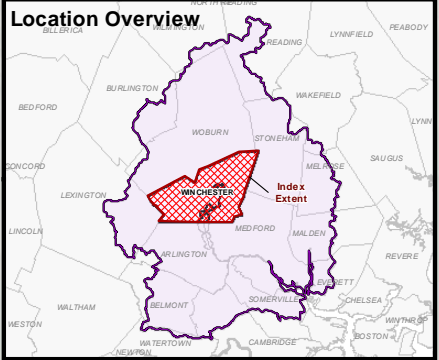
FIGURE

15  
of 17





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**LEGEND**

- Upper Mystic River Watershed
- Stormwater Drain Main
- Town Boundary
- Modeled Pipes

**NOTE:**

"Modeled Pipes" depict piped infrastructure that has been integrated into the regional model update as of January 2020. GIS data availability or constraints (such as pipe size data) limited the application of a standard pipe size threshold for import into the model. The pipes/structures included represent major storm sewers, typically >16", that contribute stormwater runoff to Upper Mystic tributaries or the Mystic River main channel.

PROJECT NO. 20201034.004A

CREATED: 4/17/2020

CREATED BY: RDelgado

CHECKED BY: CP/KEJ

FILE NAME:

Watershed Drainage + Outfalls.mxd

Mystic Watershed Hydraulic Model:  
WINCHESTER

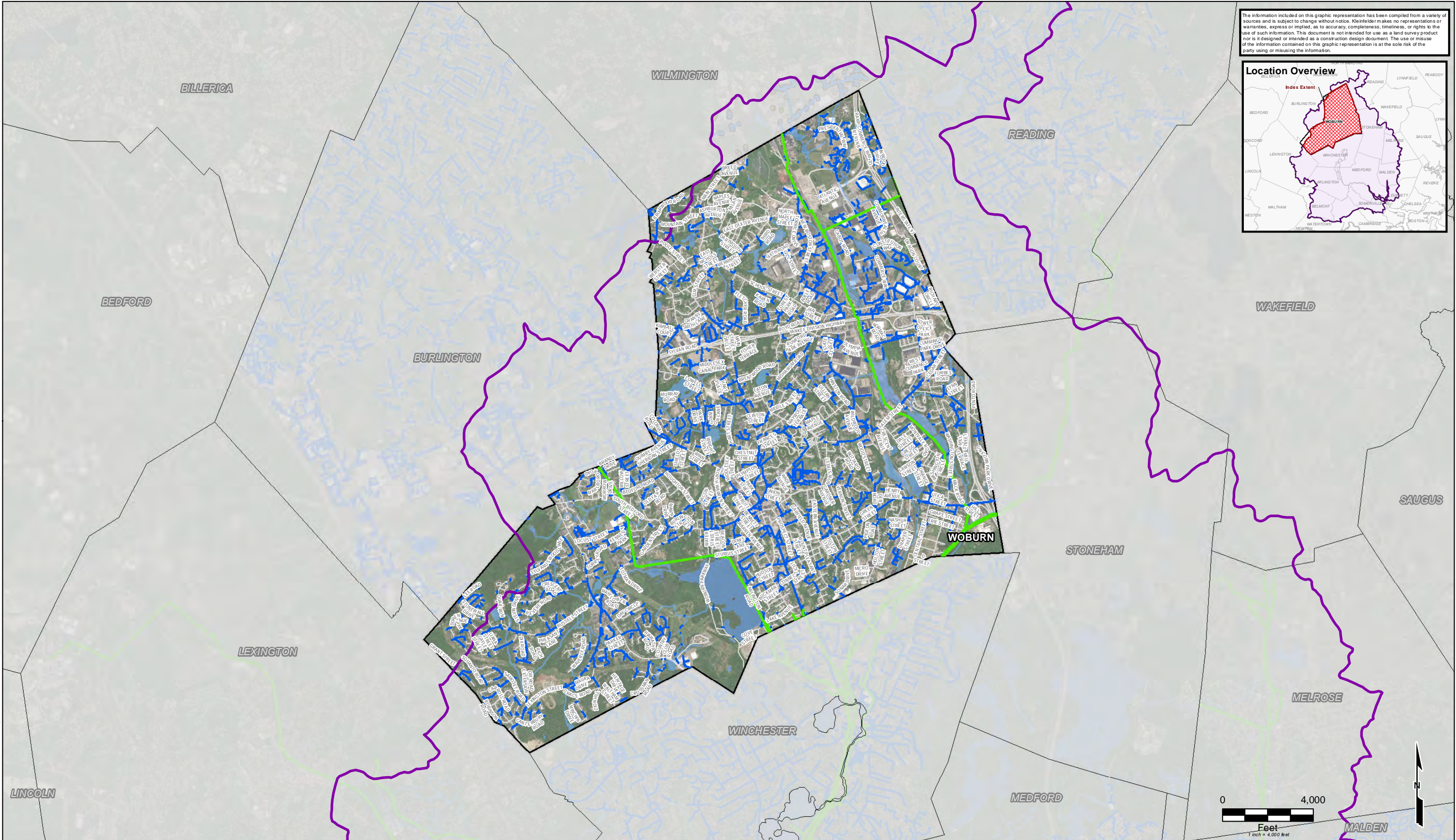
Mystic Watershed-Wide Analysis and MVP Grant  
Storm Drain System Overview Map  
Per Town  
WINCHESTER, MA

FIGURE

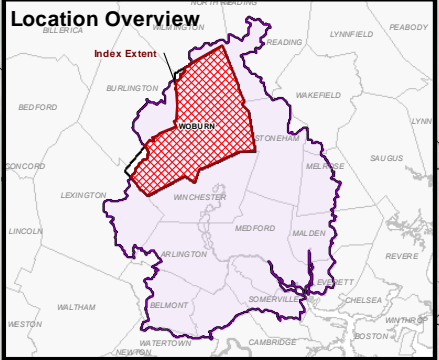
16  
of 17



Date: 4/17/2020 User: RDelgado Path: \\azrgisstor01\GIS\_Projects\CientMA\_Cambridge\20201034.004A- Watershed-Wide Analysis and MVP Grant\GIS\MXD\Watershed Drainage + Outfalls.mxd



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**LEGEND**

- Upper Mystic River Watershed
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PROJECT NO. 20201034.004A

CREATED: 4/17/2020

CREATED BY: RDelgado

CHECKED BY: CP/KEJ

FILE NAME: Watershed Drainage + Outfalls.mxd

Mystic Watershed Hydraulic Model:  
WOBURN

Mystic Watershed-Wide Analysis and MVP Grant  
Storm Drain System Overview Map  
Per Town  
WOBURN, MA

FIGURE

17  
of 17



# Appendix C

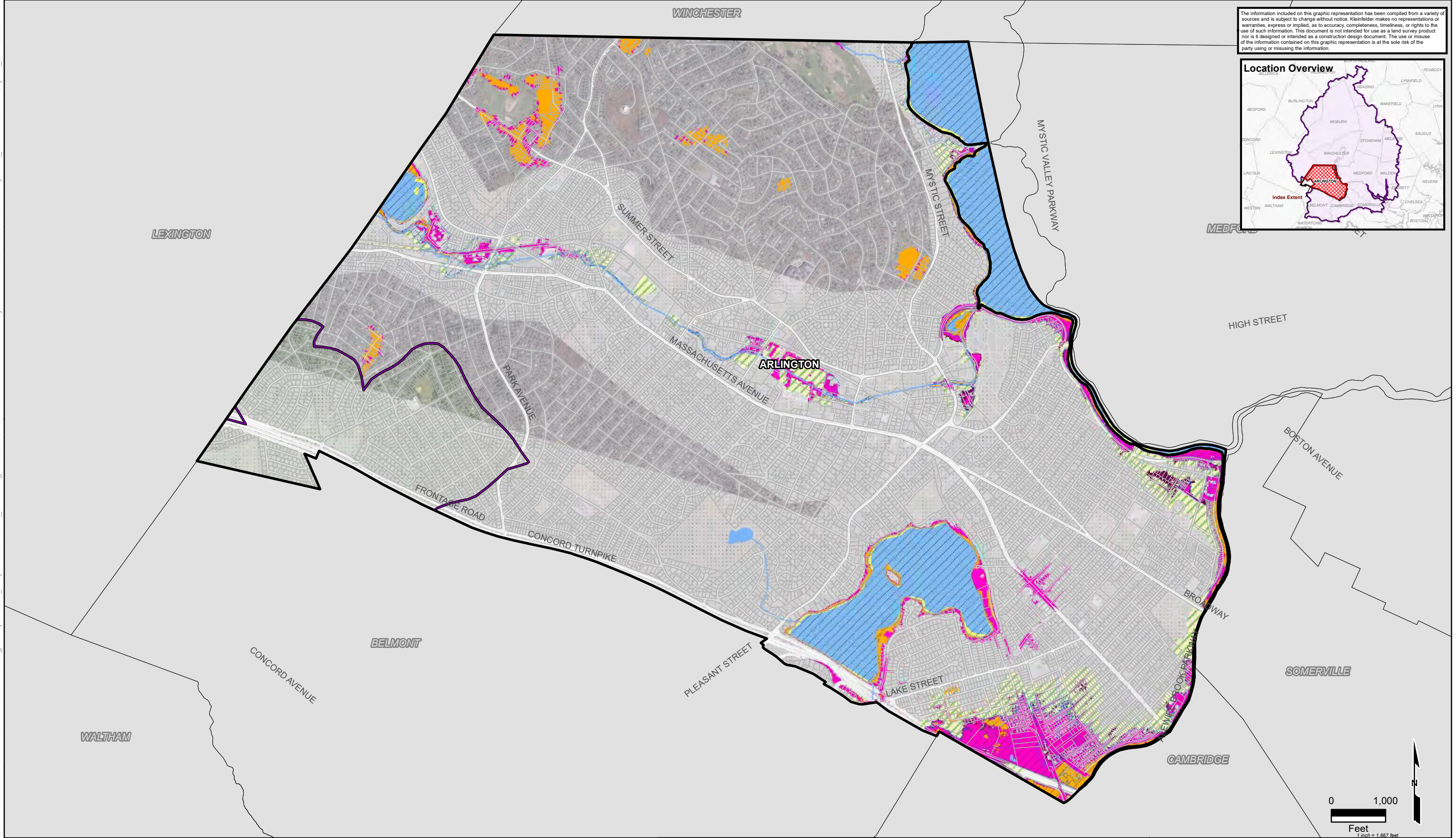
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## Task 1-2 Updated Flood Model Outputs (Mapbook)

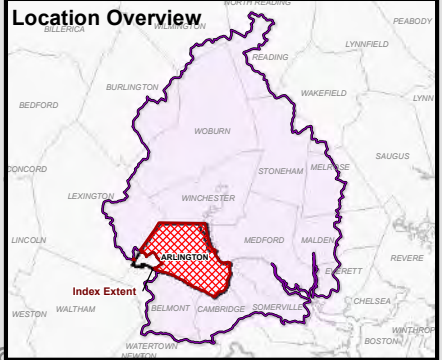




Date: 12/3/2020 User: KJohnson Path: \\azrgisstor01\GIS\_Projects\Client\MA\_Cambridge\20201034.004A- Watershed-Wide Analysis and MVP Grant\GISMXD\Mapbook\_Revised Flood Layers\_Dec 2020.mxd



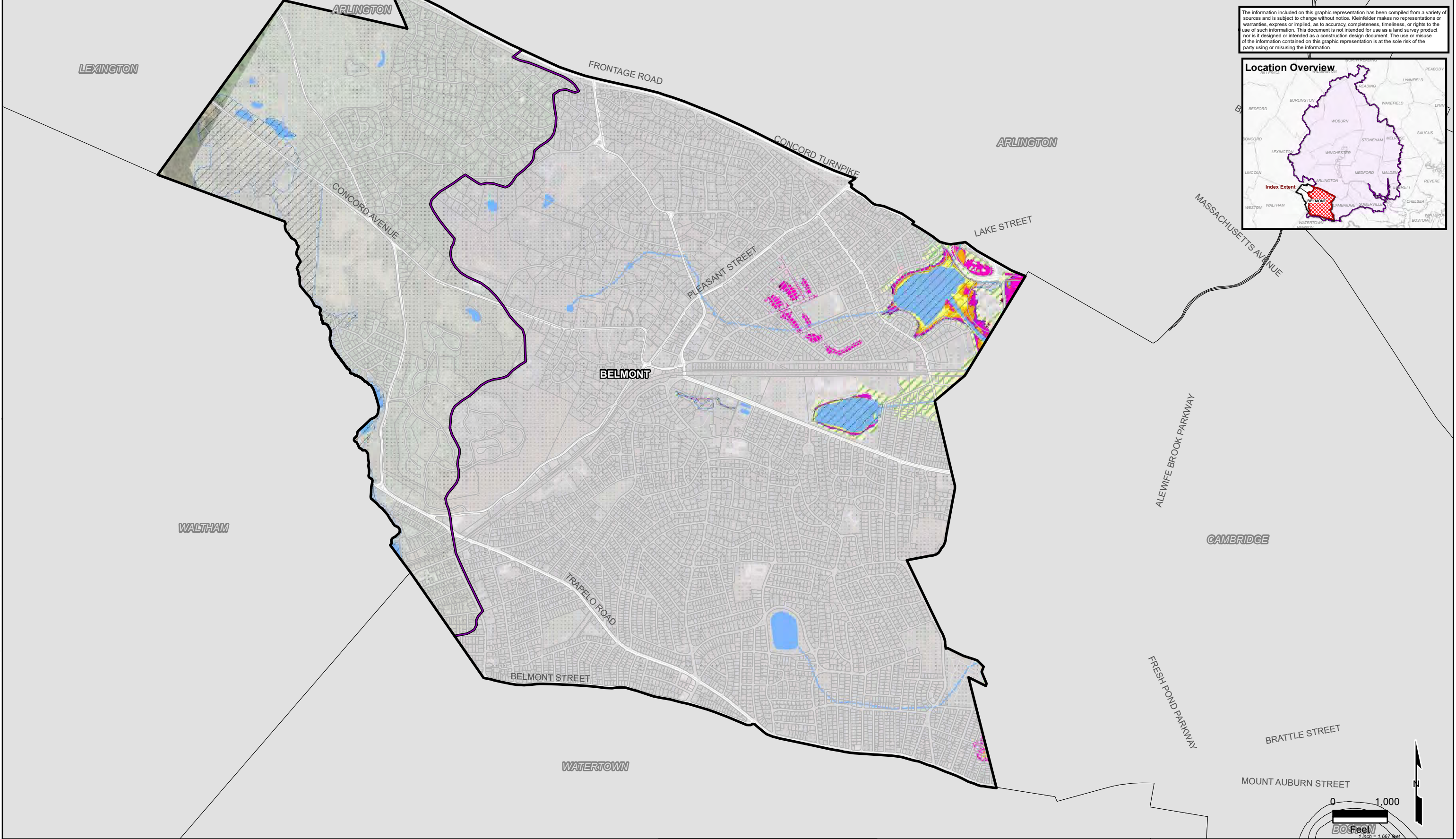
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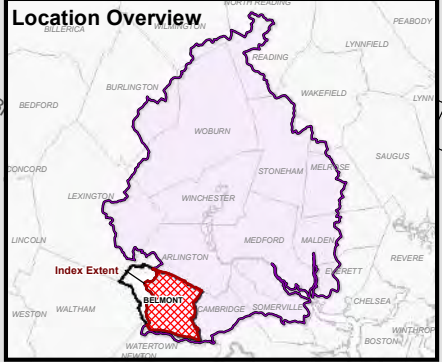
<b>LEGEND</b> Upper Mystic River Watershed Parcel Boundaries Roads (per MassDOT) Town Boundary Adjacent Town Boundary Water Detailed 2D Zone Coverage		Present 2yr, 24 hr - 30% DCIA disconnection Present 2yr, 24 hr - Baseline 2070 10yr, 24 hr - Baseline (Exist. High Tide) 2070 10yr, 24 hr - Baseline (Future SLR Tide) 2070 10yr, 24 hr - Baseline (Future SLR Tide) 2070 100yr, 24 hr - Baseline (Exist. High Tide)	<b>FEMA National Flood Hazard Layer FLD_ZONE</b> 100-yr FEMA zones (A; AE; AH; AO) <b>FEMA National Flood Hazard Layer FLD_ZONE</b> 500-yr, other FEMA zones 100-yr FEMA zones (A; AE; AH; AO)	<b>Note:</b> Mystic Viewer Tool (web version of flood layers) accessible at <a href="https://geo.stantec.com/MysticRiver/viewer/">https://geo.stantec.com/MysticRiver/viewer/</a>  Contact Resilient Mystic Collaborative for login credentials.	 Bright People. Right Solutions. www.kleinfielder.com 	PROJECT NO. 20201034.004A CREATED: 12/3/2020 CREATED BY: KJohnson CHECKED BY: _____ FILE NAME: Mapbook_Revised Flood Layers_Dec 2020.mxd	<b>FEMA and Regional Flood Model Outputs (by municipality)</b> <b>ARLINGTON</b>  Mystic Watershed-Wide Analysis and MVP Grant FEMA and Regional Flood Model Maps Per Municipality ARLINGTON, MA	FIGURE <b>1</b> of 17
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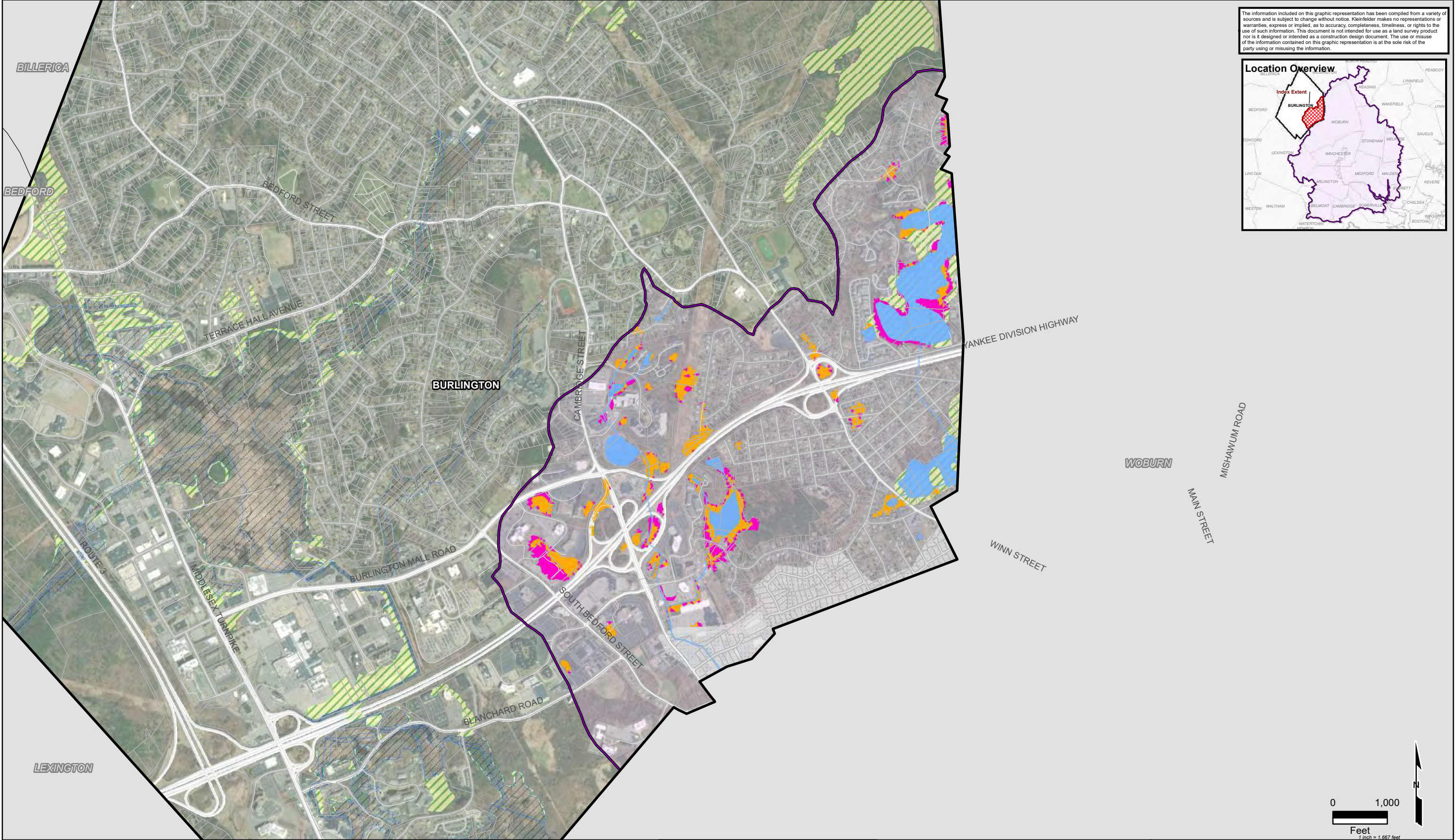
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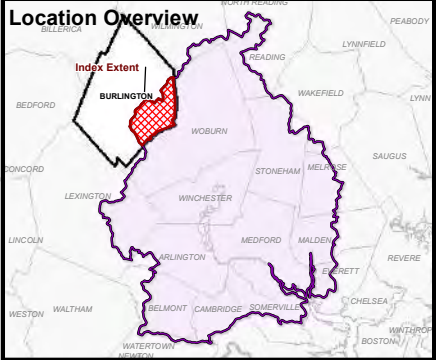
<b>LEGEND</b> Upper Mystic River Watershed Parcel Boundaries Roads (per MassDOT) Town Boundary Adjacent Town Boundary Water Detailed 2D Zone Coverage		Present 2yr, 24 hr - 30% DCIA disconnection Present 2yr, 24 hr - Baseline 2070 10yr, 24 hr - Baseline (Exist. High Tide) 2070 10yr, 24 hr - Baseline (Future SLR Tide) 2070 10yr, 24 hr - Baseline (Future SLR Tide) 2070 100yr, 24 hr - Baseline (Exist. High Tide)	<b>FEMA National Flood Hazard Layer FLD_ZONE</b> 100-yr FEMA zones (A; AE; AH; AO) <b>FEMA National Flood Hazard Layer FLD_ZONE</b> 500-yr, other FEMA zones 100-yr FEMA zones (A; AE; AH; AO)	<b>Note:</b> Mystic Viewer Tool (web version of flood layers) accessible at <a href="https://geo.stantec.com/MysticRiver/viewer/">https://geo.stantec.com/MysticRiver/viewer/</a>  <i>Contact Resilient Mystic Collaborative for login credentials.</i>	 Bright People. Right Solutions. www.kleinfelder.com 	PROJECT NO. 20201034.004A CREATED: 12/3/2020 CREATED BY: KJohnson CHECKED BY: _____ FILE NAME: Mapbook_Revised Flood Layers_Dec 2020.mxd	<b>FEMA and Regional Flood Model Outputs (by municipality) BELMONT</b>  Mystic Watershed-Wide Analysis and MVP Grant FEMA and Regional Flood Model Maps Per Municipality BELMONT, MA	FIGURE <b>2</b> of 17
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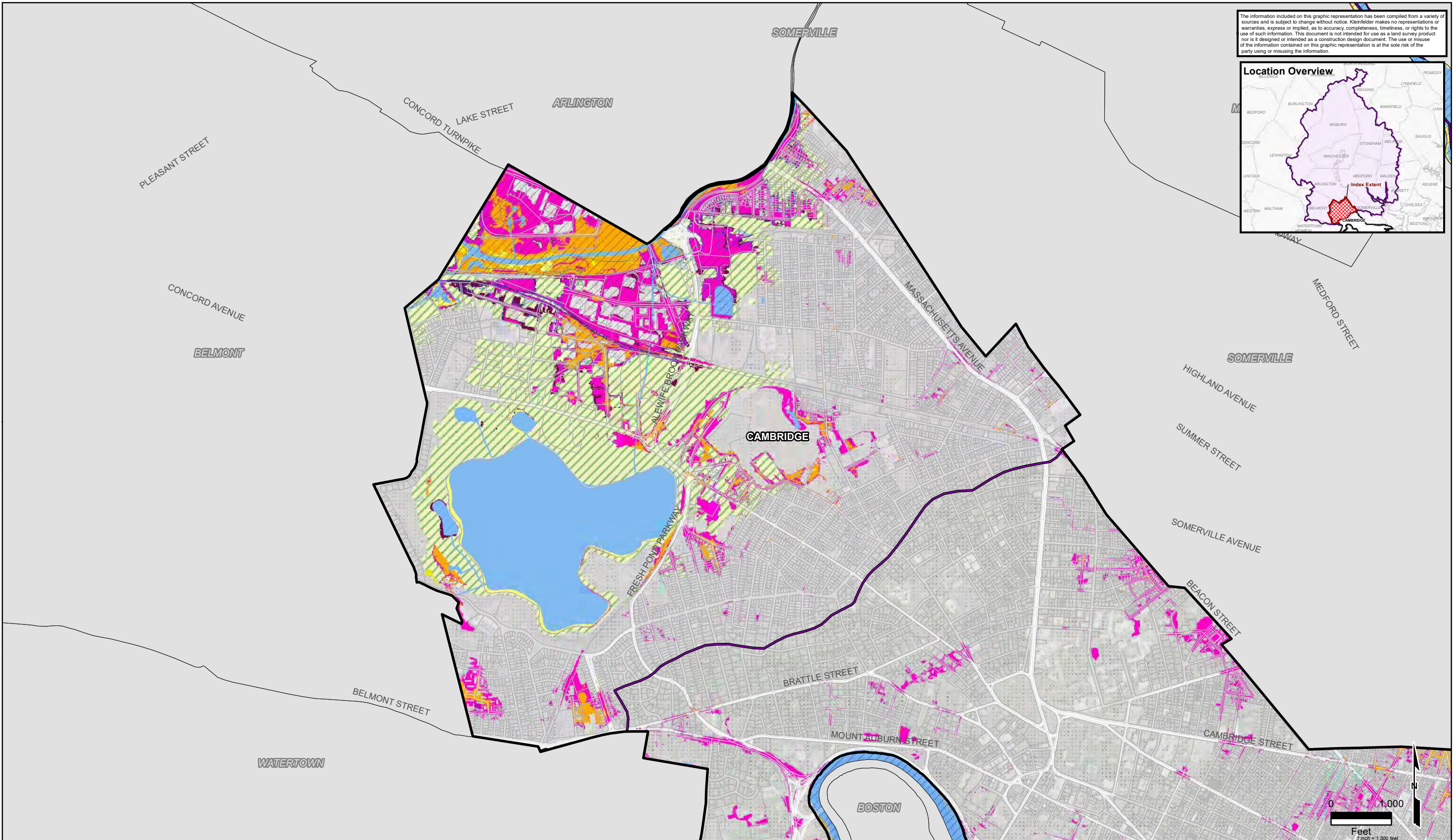
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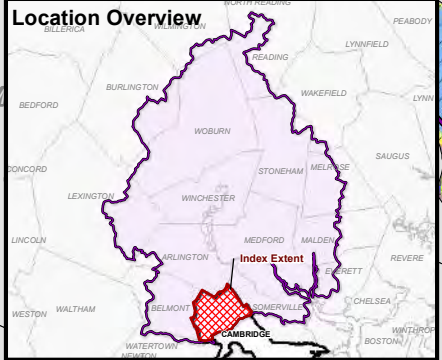
<b>LEGEND</b> Upper Mystic River Watershed Parcel Boundaries Roads (per MassDOT) Town Boundary Adjacent Town Boundary Water Detailed 2D Zone Coverage	<ul style="list-style-type: none"><li>Present 2yr, 24 hr - 30% DCIA disconnection</li><li>Present 2yr, 24 hr - Baseline</li><li>2070 10yr, 24 hr - Baseline (Exist. High Tide)</li><li>2070 10yr, 24 hr - Baseline (Future SLR Tide)</li><li>2070 10yr, 24 hr - Baseline (Future SLR Tide)</li><li>2070 100yr, 24 hr - Baseline (Exist. High Tide)</li></ul>	<b>FEMA National Flood Hazard Layer FLD_ZONE</b> 100-yr FEMA zones (A; AE; AH; AO) <b>FEMA National Flood Hazard Layer FLD_ZONE</b> 100-yr FEMA zones (A; AE; AH; AO)	<b>Note:</b> Mystic Viewer Tool (web version of flood layers) accessible at <a href="https://geo.stantec.com/MysticRiver/viewer/">https://geo.stantec.com/MysticRiver/viewer/</a> <i>Contact Resilient Mystic Collaborative for login credentials.</i>	 Bright People. Right Solutions. www.kleinfelder.com 	PROJECT NO. 20201034.004A CREATED: 12/3/2020 CREATED BY: KJohnson CHECKED BY: _____ FILE NAME: Mapbook_Revised Flood Layers_Dec 2020.mxd	<b>FEMA and Regional Flood Model Outputs (by municipality) BURLINGTON</b> Mystic Watershed-Wide Analysis and MVP Grant FEMA and Regional Flood Model Maps Per Municipality BURLINGTON, MA	FIGURE <b>3</b> of 17
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Date: 12/3/2020 User: KJohnson Path: \\azrgis\storp01\GIS\_Projects\Client\MA\_Cambridge\20201034.004A- Watershed-Wide Analysis and MVP Grant\GISMXD\Mapbook\_Revised Flood Layers\_Dec 2020.mxd



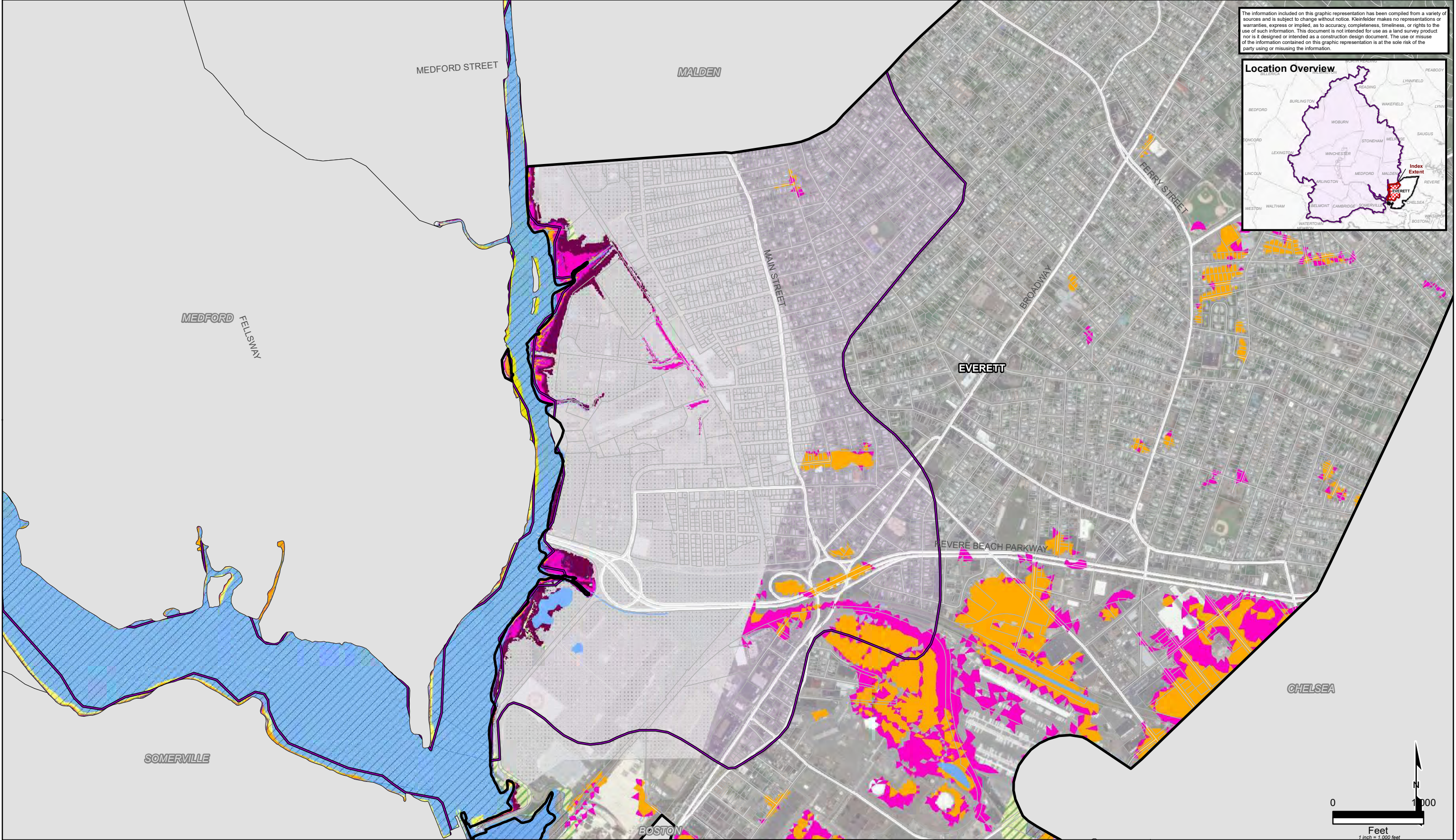
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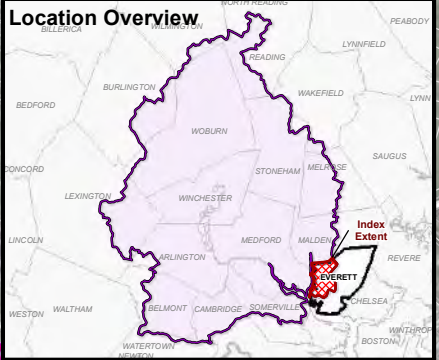
<b>LEGEND</b> Upper Mystic River Watershed Parcel Boundaries Roads (per MassDOT) Town Boundary Adjacent Town Boundary Water Detailed 2D Zone Coverage		Present 2yr, 24 hr - 30% DCIA disconnection Present 2yr, 24 hr - Baseline 2070 10yr, 24 hr - Baseline (Exist. High Tide) 2070 10yr, 24 hr - Baseline (Future SLR Tide) 2070 10yr, 24 hr - Baseline (Future SLR Tide) 2070 100yr, 24 hr - Baseline (Exist. High Tide)	<b>FEMA National Flood Hazard Layer</b> <b>FLD_ZONE</b> 100-yr FEMA zones (A; AE; AH; AO) <b>FEMA National Flood Hazard Layer</b> <b>FLD_ZONE</b> 500-yr, other FEMA zones 100-yr FEMA zones (A; AE; AH; AO)	<b>Note:</b> Mystic Viewer Tool (web version of flood layers) accessible at <a href="https://geo.stantec.com/MysticRiver/viewer/">https://geo.stantec.com/MysticRiver/viewer/</a>  Contact Resilient Mystic Collaborative for login credentials.	 Bright People. Right Solutions. www.kleinfielder.com 	PROJECT NO. 20201034.004A CREATED: 12/3/2020 CREATED BY: KJohnson CHECKED BY: _____ FILE NAME: Mapbook_Revised Flood Layers_Dec 2020.mxd	<b>FEMA and Regional Flood Model Outputs (by municipality)</b> <b>CAMBRIDGE</b>  Mystic Watershed-Wide Analysis and MVP Grant FEMA and Regional Flood Model Maps Per Municipality CAMBRIDGE, MA	FIGURE <b>4</b> of 17
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Date: 12/3/2020 User: KJohnson Path: \\azrgisstor01\GIS\_Projects\Client\MA\_Cambridge\20201034.004A- Watershed-Wide Analysis and MVP Grant\GISMXD\Mapbook\_Revised Flood Layers\_Dec 2020.mxd



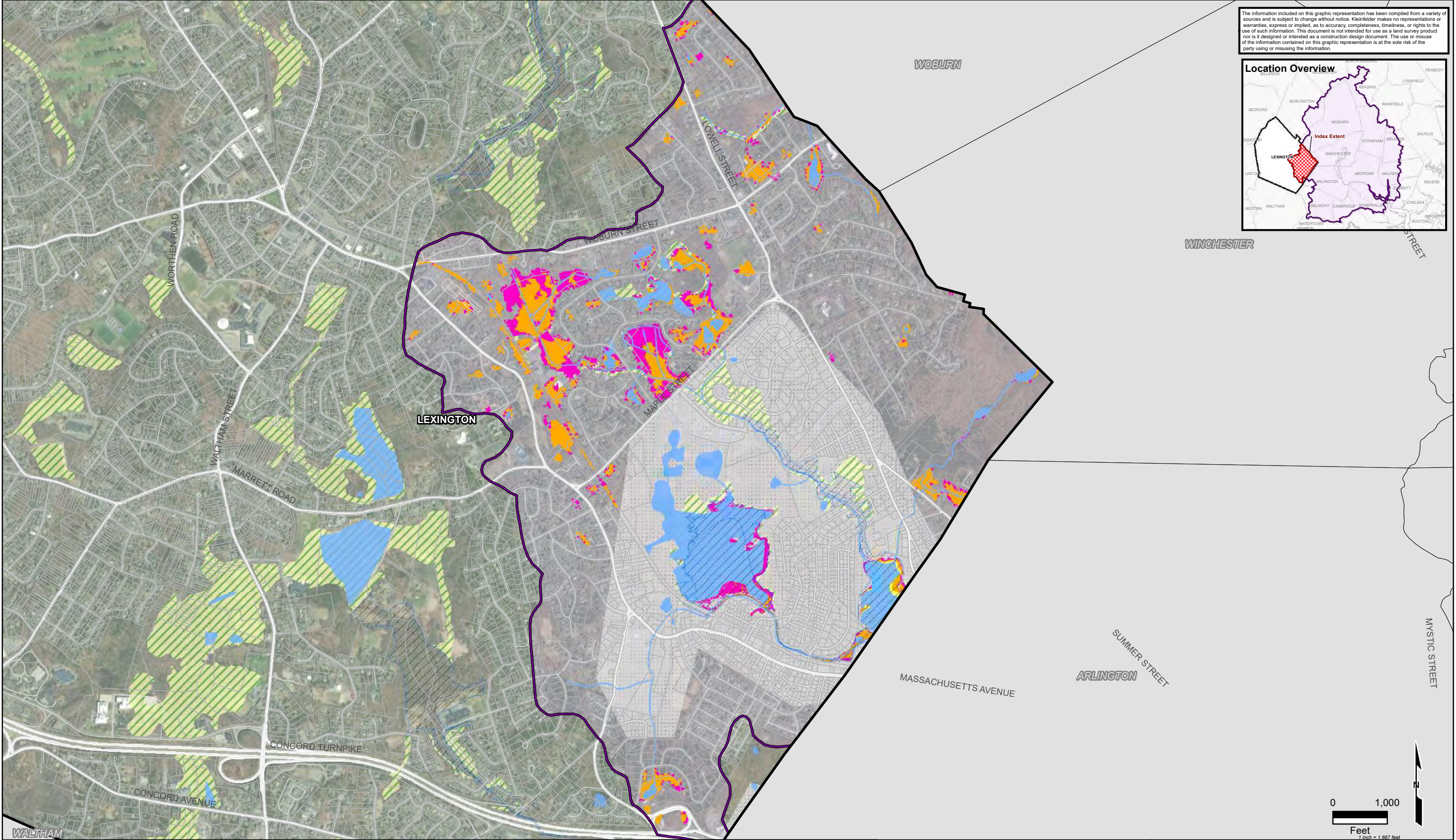
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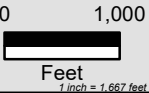
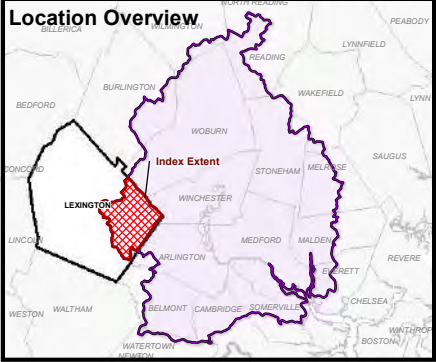
<b>LEGEND</b> Upper Mystic River Watershed Parcel Boundaries Roads (per MassDOT) Town Boundary Adjacent Town Boundary Water Detailed 2D Zone Coverage	<ul style="list-style-type: none"><li>Present 2yr, 24 hr - 30% DCIA disconnection</li><li>Present 2yr, 24 hr - Baseline</li><li>2070 10yr, 24 hr - Baseline (Exist. High Tide)</li><li>2070 10yr, 24 hr - Baseline (Future SLR Tide)</li><li>2070 10yr, 24 hr - Baseline (Future SLR Tide)</li><li>2070 100yr, 24 hr - Baseline (Exist. High Tide)</li></ul>	<b>FEMA National Flood Hazard Layer</b> <b>FLD_ZONE</b> 100-yr FEMA zones (A; AE; AH; AO) <b>FEMA National Flood Hazard Layer</b> <b>FLD_ZONE</b> 500-yr, other FEMA zones 100-yr FEMA zones (A; AE; AH; AO)	<b>Note:</b> Mystic Viewer Tool (web version of flood layers) accessible at <a href="https://geo.stantec.com/MysticRiver/viewer/">https://geo.stantec.com/MysticRiver/viewer/</a>  Contact Resilient Mystic Collaborative for login credentials.	 Bright People. Right Solutions. www.kleinfelder.com 	PROJECT NO. 20201034.004A CREATED: 12/3/2020 CREATED BY: KJohnson CHECKED BY: _____ FILE NAME: Mapbook_Revised Flood Layers_Dec 2020.mxd	<b>FEMA and Regional Flood Model Outputs (by municipality)</b> <b>EVERETT</b>  Mystic Watershed-Wide Analysis and MVP Grant FEMA and Regional Flood Model Maps Per Municipality EVERETT, MA	FIGURE <b>5</b> of 17
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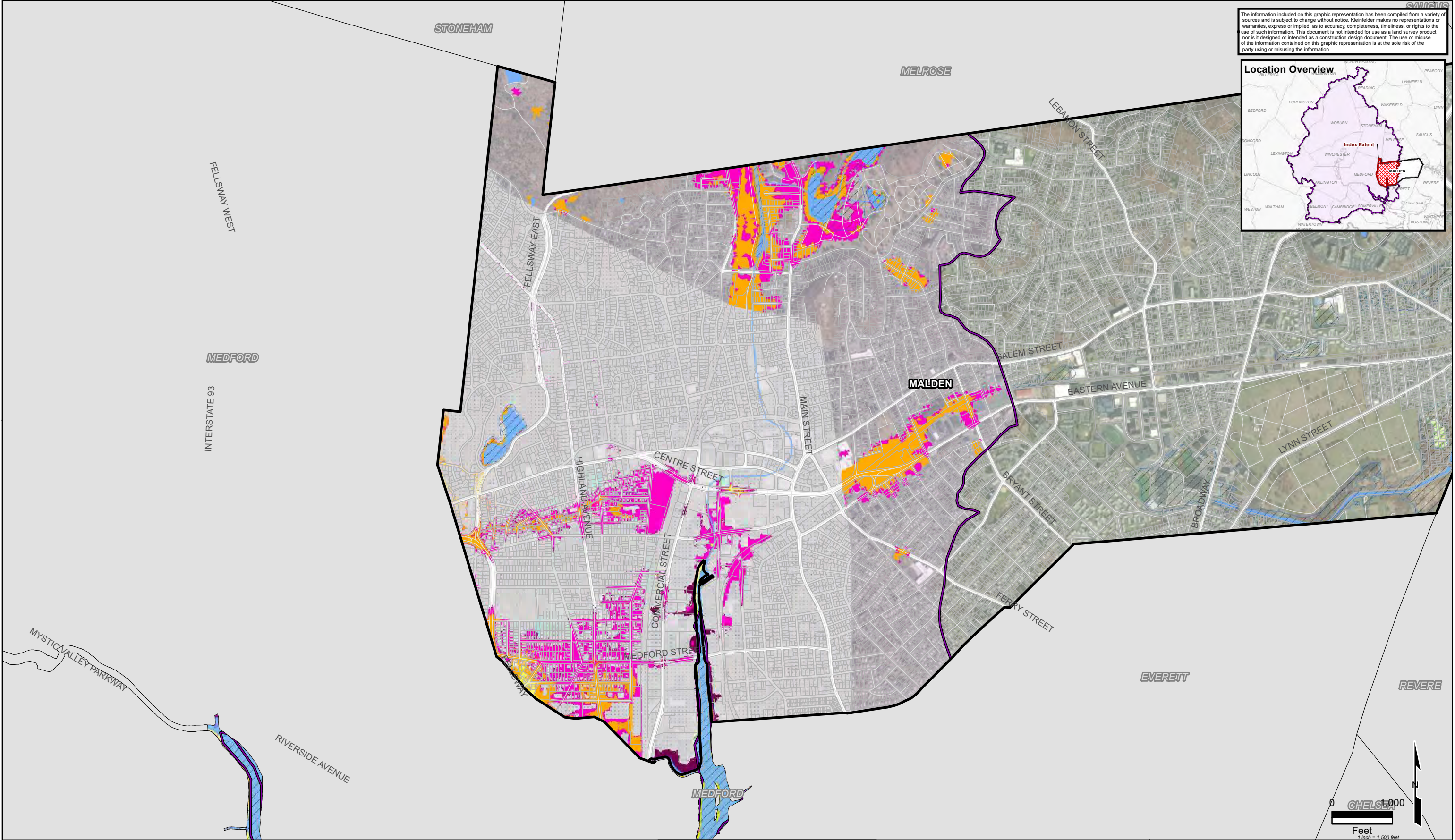
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<b>LEGEND</b> Upper Mystic River Watershed Parcel Boundaries Roads (per MassDOT) Town Boundary Adjacent Town Boundary Water Detailed 2D Zone Coverage		<div>Present 2yr, 24 hr - 30% DCIA disconnection</div> <div>Present 2yr, 24 hr - Baseline</div> <div>2070 10yr, 24 hr - Baseline (Exist. High Tide)</div> <div>2070 10yr, 24 hr - Baseline (Future SLR Tide)</div> <div>2070 10yr, 24 hr - Baseline (Future SLR Tide)</div> <div>2070 100yr, 24 hr - Baseline (Exist. High Tide)</div>	<b>FEMA National Flood Hazard Layer</b> <b>FLD_ZONE</b> 100-yr FEMA zones (A; AE; AH; AO) <b>FEMA National Flood Hazard Layer</b> <b>FLD_ZONE</b> 100-yr FEMA zones (A; AE; AH; AO)	<b>Note:</b> Mystic Viewer Tool (web version of flood layers) accessible at  <a href="https://geo.stantec.com/MysticRiver/viewer/">https://geo.stantec.com/MysticRiver/viewer/</a>  Contact Resilient Mystic Collaborative for login credentials.	 	PROJECT NO. 20201034.004A CREATED: 12/3/2020 CREATED BY: KJohnson CHECKED BY: _____ FILE NAME: Mapbook_Revised Flood Layers_Dec 2020.mxd	<b>FEMA and Regional Flood Model Outputs (by municipality)</b> <b>LEXINGTON</b>  Mystic Watershed-Wide Analysis and MVP Grant FEMA and Regional Flood Model Maps Per Municipality LEXINGTON, MA	FIGURE <b>6</b> of 17
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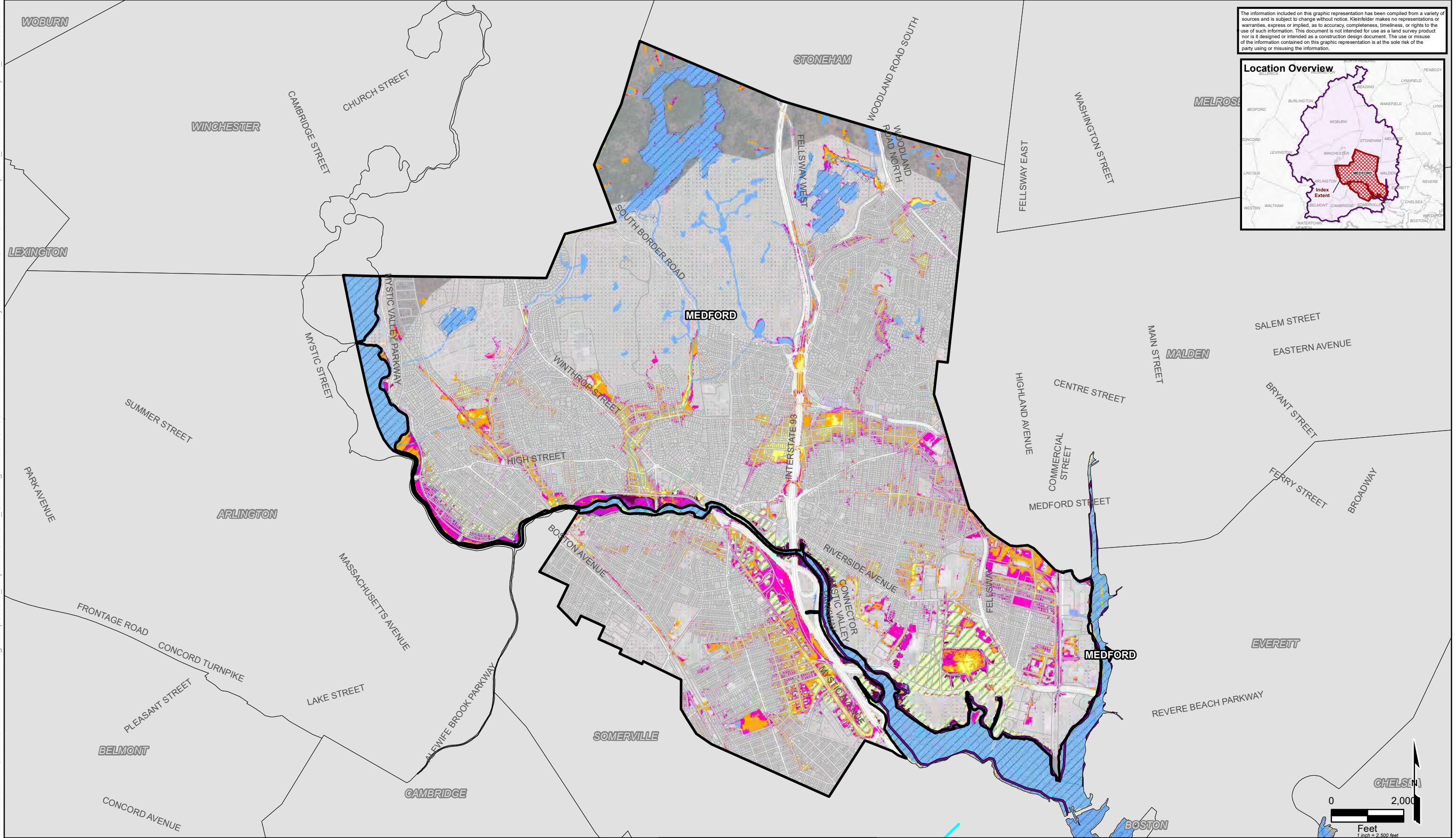
Date: 12/3/2020 User: KJohnson Path: \\azrgisstor01\GIS\_Projects\Client\MA\_Cambridge\20201034.004A- Watershed-Wide Analysis and MVP Grant\GISMXDMapbook\_Revised Flood Layers\_Dec 2020.mxd



<b>LEGEND</b> <ul style="list-style-type: none"><li>Upper Mystic River Watershed</li><li>Parcel Boundaries</li><li>Roads (per MassDOT)</li><li>Town Boundary</li><li>Adjacent Town Boundary</li><li>Water</li><li>Detailed 2D Zone Coverage</li></ul>	<ul style="list-style-type: none"><li>Present 2yr, 24 hr - 30% DCIA disconnection</li><li>Present 2yr, 24 hr - Baseline</li><li>2070 10yr, 24 hr - Baseline (Exist. High Tide)</li><li>2070 10yr, 24 hr - Baseline (Future SLR Tide)</li><li>2070 10yr, 24 hr - Baseline (Future SLR Tide)</li><li>2070 100yr, 24 hr - Baseline (Exist. High Tide)</li></ul>	<b>FEMA National Flood Hazard Layer FLD_ZONE</b> <ul style="list-style-type: none"><li>100-yr FEMA zones (A; AE; AH; AO)</li></ul> <b>FEMA National Flood Hazard Layer FLD_ZONE</b> <ul style="list-style-type: none"><li>500-yr, other FEMA zones</li></ul> <b>FLD_ZONE</b> <ul style="list-style-type: none"><li>100-yr FEMA zones (A; AE; AH; AO)</li></ul>	<p><b>Note:</b>Mystic Viewer Tool (web version of flood layers) accessible at</p> <p><a href="https://geo.stantec.com/MysticRiver/viewer/">https://geo.stantec.com/MysticRiver/viewer/</a></p> <p>Contact Resilient Mystic Collaborative for login credentials.</p>	 Bright People. Right Solutions. www.kleinfelder.com		PROJECT NO. 20201034.004A CREATED: 12/3/2020 CREATED BY: KJohnson CHECKED BY: _____ FILE NAME: Mapbook_Revised Flood Layers_Dec 2020.mxd	<b>FEMA and Regional Flood Model Outputs (by municipality)</b> <b>MALDEN</b>  Mystic Watershed-Wide Analysis and MVP Grant FEMA and Regional Flood Model Maps Per Municipality MALDEN, MA	FIGURE <b>7</b> of 17
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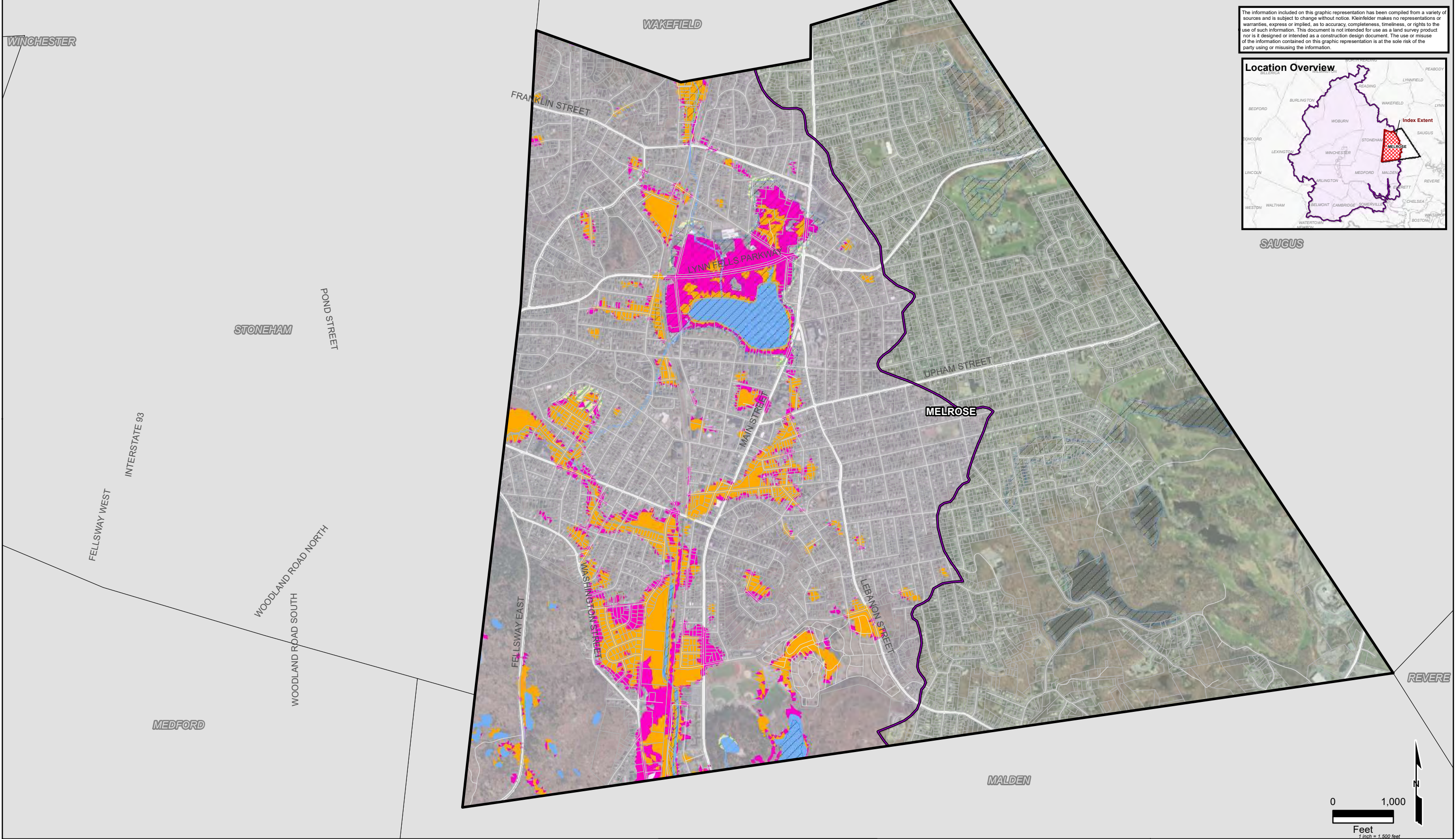
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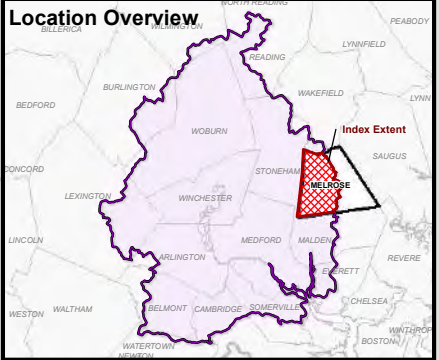
<b>LEGEND</b> Upper Mystic River Watershed Parcel Boundaries Roads (per MassDOT) Town Boundary Adjacent Town Boundary Water Detailed 2D Zone Coverage	<ul style="list-style-type: none"><li>Present 2yr, 24 hr - 30% DCIA disconnection</li><li>Present 2yr, 24 hr - Baseline</li><li>2070 10yr, 24 hr - Baseline (Exist. High Tide)</li><li>2070 10yr, 24 hr - Baseline (Future SLR Tide)</li><li>2070 10yr, 24 hr - Baseline (Future SLR Tide)</li><li>2070 100yr, 24 hr - Baseline (Exist. High Tide)</li></ul>	<b>FEMA National Flood Hazard Layer FLD_ZONE</b> 100-yr FEMA zones (A; AE; AH; AO) <b>FEMA National Flood Hazard Layer FLD_ZONE</b> 500-yr, other FEMA zones 100-yr FEMA zones (A; AE; AH; AO)	<b>Note:</b> Mystic Viewer Tool (web version of flood layers) accessible at <a href="https://geo.stantec.com/MysticRiver/viewer/">https://geo.stantec.com/MysticRiver/viewer/</a>  Contact Resilient Mystic Collaborative for login credentials.	 Bright People. Right Solutions. www.kleinfelder.com 	PROJECT NO. 20201034.004A CREATED: 12/3/2020 CREATED BY: KJohnson CHECKED BY: _____ FILE NAME: Mapbook_Revised Flood Layers_Dec 2020.mxd	<b>FEMA and Regional Flood Model Outputs (by municipality)</b> <b>MEDFORD</b>  Mystic Watershed-Wide Analysis and MVP Grant FEMA and Regional Flood Model Maps Per Municipality MEDFORD, MA	FIGURE <b>8</b> of 17
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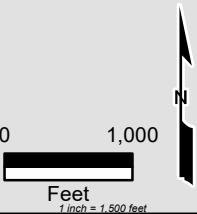
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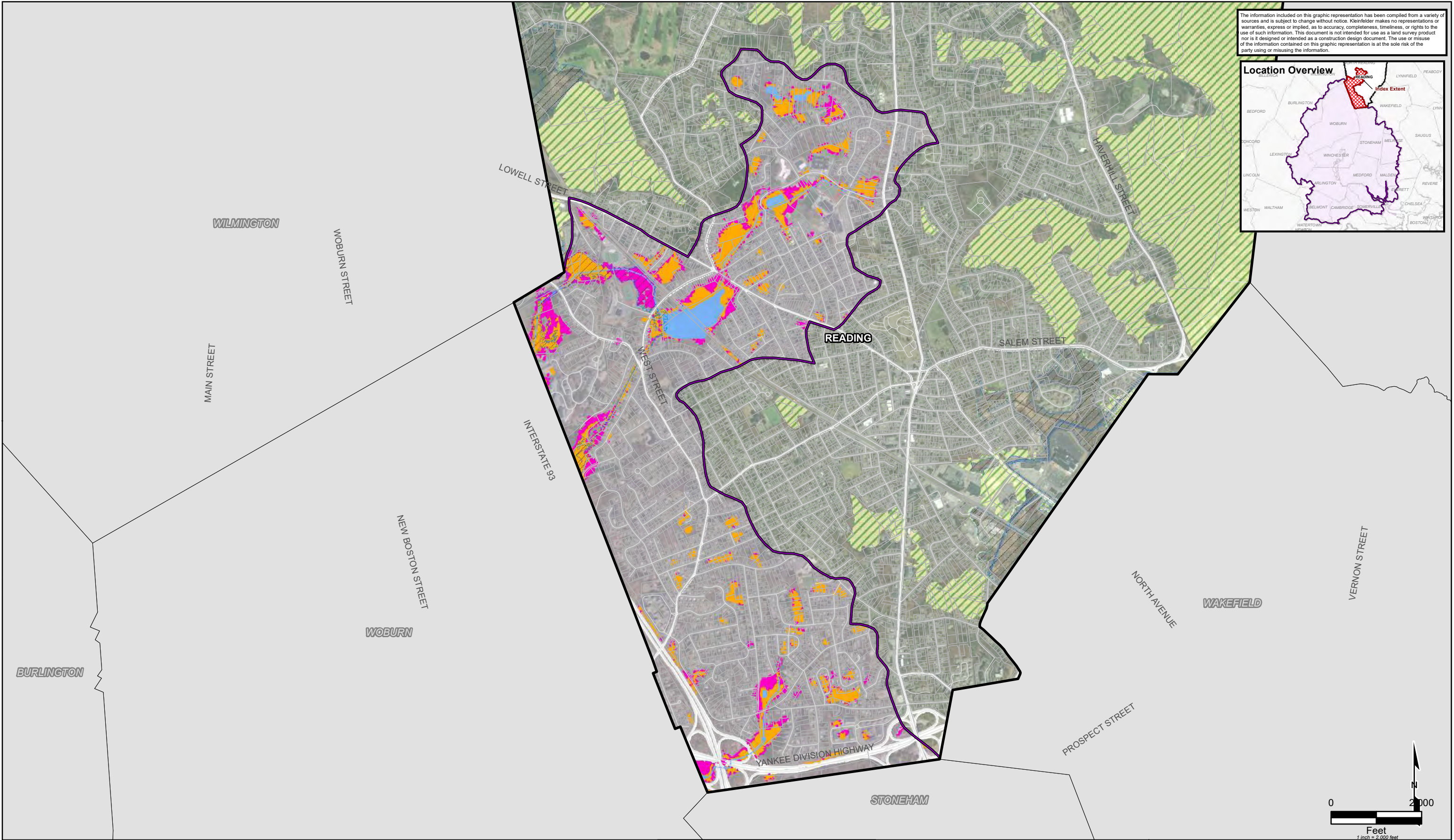




SAUGUS



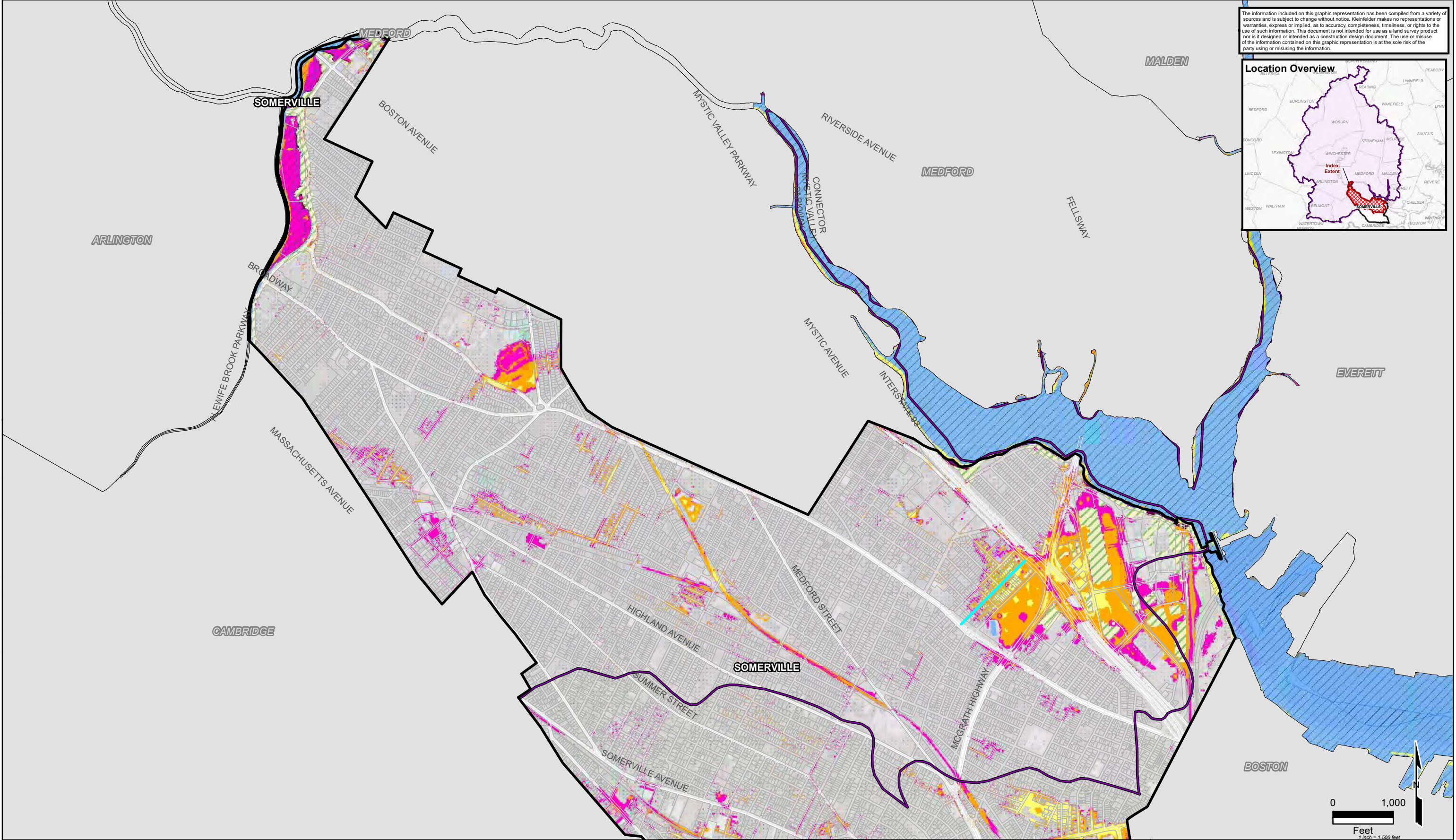
<b>LEGEND</b> Upper Mystic River Watershed Parcel Boundaries Roads (per MassDOT) Town Boundary Adjacent Town Boundary Water Detailed 2D Zone Coverage		<b>FEMA National Flood Hazard Layer</b> FLD_ZONE Present 2yr, 24 hr - 30% DCIA disconnection Present 2yr, 24 hr - Baseline 2070 10yr, 24 hr - Baseline (Exist. High Tide) 2070 10yr, 24 hr - Baseline (Future SLR Tide) 2070 10yr, 24 hr - Baseline (Future SLR Tide) 2070 100yr, 24 hr - Baseline (Exist. High Tide)		<b>FEMA National Flood Hazard Layer</b> FLD_ZONE 100-yr FEMA zones (A; AE; AH; AO) 500-yr, other FEMA zones		<b>Note:</b> Mystic Viewer Tool (web version of flood layers) accessible at <a href="https://geo.stantec.com/MysticRiver/viewer/">https://geo.stantec.com/MysticRiver/viewer/</a>  Contact Resilient Mystic Collaborative for login credentials.		 Bright People. Right Solutions. www.kleinfelder.com 		PROJECT NO. 20201034.004A CREATED: 12/3/2020 CREATED BY: KJohnson CHECKED BY: _____ FILE NAME: Mapbook_Revised Flood Layers_Dec 2020.mxd		<b>FEMA and Regional Flood Model Outputs (by municipality)</b> <b>MELROSE</b>  Mystic Watershed-Wide Analysis and MVP Grant FEMA and Regional Flood Model Maps Per Municipality MELROSE, MA		FIGURE <b>9</b> of 17	
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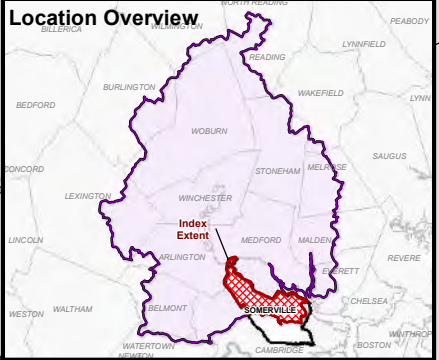


<b>LEGEND</b> Upper Mystic River Watershed Parcel Boundaries Roads (per MassDOT) Town Boundary Adjacent Town Boundary Water Detailed 2D Zone Coverage	<ul style="list-style-type: none"><li>Present 2yr, 24 hr - 30% DCIA disconnection</li><li>Present 2yr, 24 hr - Baseline</li><li>2070 10yr, 24 hr - Baseline (Exist. High Tide)</li><li>2070 10yr, 24 hr - Baseline (Future SLR Tide)</li><li>2070 10yr, 24 hr - Baseline (Future SLR Tide)</li><li>2070 100yr, 24 hr - Baseline (Exist. High Tide)</li></ul>	<b>FEMA National Flood Hazard Layer</b> <b>FLD_ZONE</b> 100-yr FEMA zones (A; AE; AH; AO) <b>FEMA National Flood Hazard Layer</b> <b>FLD_ZONE</b> 100-yr FEMA zones (A; AE; AH; AO)	<p><b>Note:</b>Mystic Viewer Tool (web version of flood layers) accessible at</p> <p><a href="https://geo.stantec.com/MysticRiver/viewer/">https://geo.stantec.com/MysticRiver/viewer/</a></p> <p>Contact Resilient Mystic Collaborative for login credentials.</p>	<div> Bright People. Right Solutions. www.kleinfelder.com</div> <div></div>	<table><tr><td>PROJECT NO.</td><td>20201034.004A</td></tr><tr><td>CREATED:</td><td>12/3/2020</td></tr><tr><td>CREATED BY:</td><td>KJohnson</td></tr><tr><td>CHECKED BY:</td><td>—</td></tr><tr><td>FILE NAME:</td><td>Mapbook_Revised Flood Layers_Dec 2020.mxd</td></tr></table>	PROJECT NO.	20201034.004A	CREATED:	12/3/2020	CREATED BY:	KJohnson	CHECKED BY:	—	FILE NAME:	Mapbook_Revised Flood Layers_Dec 2020.mxd	<b>FEMA and Regional Flood Model Outputs (by municipality)</b> <b>READING</b>  Mystic Watershed-Wide Analysis and MVP Grant FEMA and Regional Flood Model Maps Per Municipality READING, MA	FIGURE <b>10</b> of 17
PROJECT NO.	20201034.004A																
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FILE NAME:	Mapbook_Revised Flood Layers_Dec 2020.mxd																





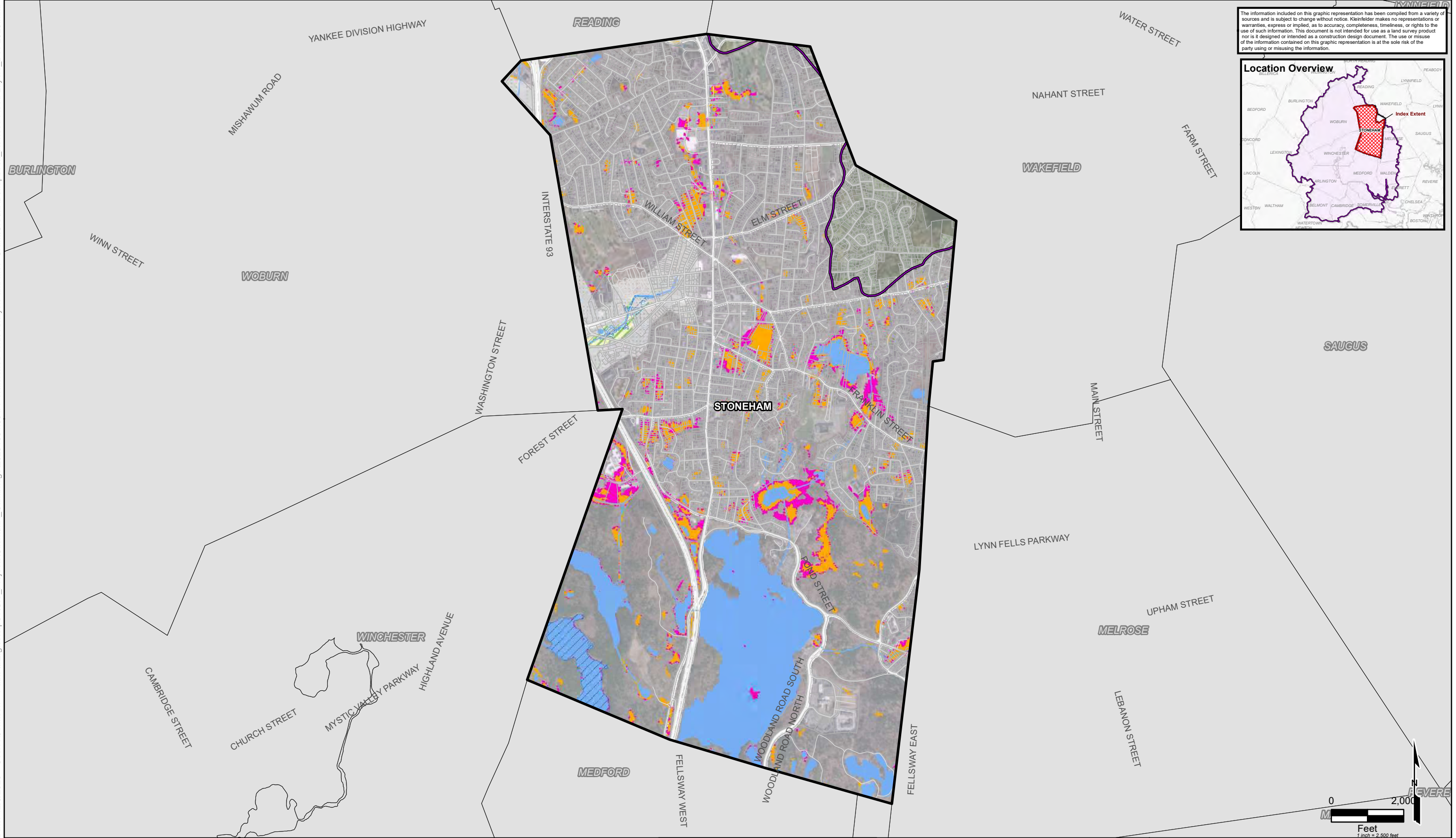
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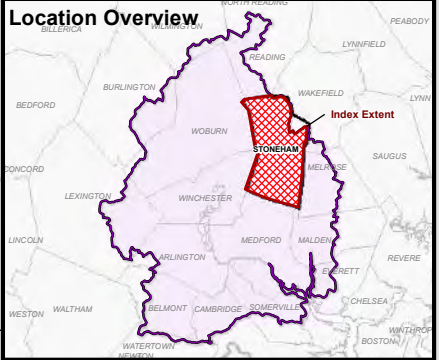
<b>LEGEND</b> Upper Mystic River Watershed Parcel Boundaries Roads (per MassDOT) Town Boundary Adjacent Town Boundary Water Detailed 2D Zone Coverage	<ul style="list-style-type: none"><li>Present 2yr, 24 hr - 30% DCIA disconnection</li><li>Present 2yr, 24 hr - Baseline</li><li>2070 10yr, 24 hr - Baseline (Exist. High Tide)</li><li>2070 10yr, 24 hr - Baseline (Future SLR Tide)</li><li>2070 10yr, 24 hr - Baseline (Future SLR Tide)</li><li>2070 100yr, 24 hr - Baseline (Exist. High Tide)</li></ul>	<b>FEMA National Flood Hazard Layer</b> <b>FLD_ZONE</b> 100-yr FEMA zones (A; AE; AH; AO) <b>FEMA National Flood Hazard Layer</b> <b>FLD_ZONE</b> 500-yr, other FEMA zones 100-yr FEMA zones (A; AE; AH; AO)	<p><b>Note:</b>Mystic Viewer Tool (web version of flood layers) accessible at <a href="https://geo.stantec.com/MysticRiver/viewer/">https://geo.stantec.com/MysticRiver/viewer/</a></p> <p>Contact Resilient Mystic Collaborative for login credentials.</p>	 Bright People. Right Solutions. www.kleinfelder.com 	<table><tr><td>PROJECT NO.</td><td>20201034.004A</td></tr><tr><td>CREATED:</td><td>12/3/2020</td></tr><tr><td>CREATED BY:</td><td>KJohnson</td></tr><tr><td>CHECKED BY:</td><td>—</td></tr><tr><td>FILE NAME:</td><td>Mapbook_Revised Flood Layers_Dec 2020.mxd</td></tr></table>	PROJECT NO.	20201034.004A	CREATED:	12/3/2020	CREATED BY:	KJohnson	CHECKED BY:	—	FILE NAME:	Mapbook_Revised Flood Layers_Dec 2020.mxd	<b>FEMA and Regional Flood Model Outputs (by municipality)</b> <b>SOMERVILLE</b>  Mystic Watershed-Wide Analysis and MVP Grant FEMA and Regional Flood Model Maps Per Municipality SOMERVILLE, MA	FIGURE <b>11</b> of 17
PROJECT NO.	20201034.004A																
CREATED:	12/3/2020																
CREATED BY:	KJohnson																
CHECKED BY:	—																
FILE NAME:	Mapbook_Revised Flood Layers_Dec 2020.mxd																





Date: 12/3/2020 User: KJohnson Path: \\azrgisstor01\GIS\_Projects\Client\MA\_Cambridge\20201034.004A- Watershed-Wide Analysis and MVP Grant\GISMXDMapbook\_Revised Flood Layers\_Dec 2020.mxd



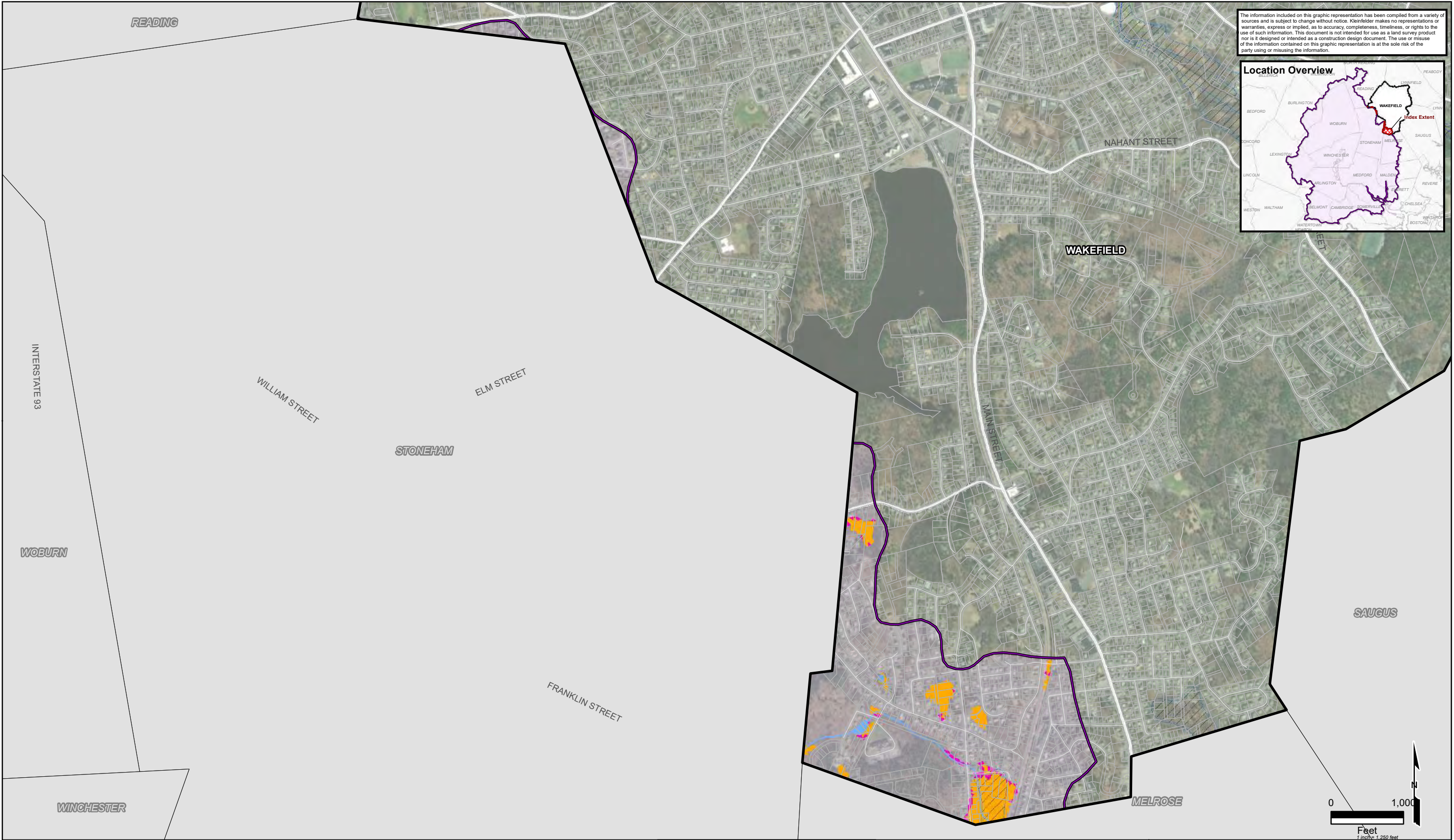
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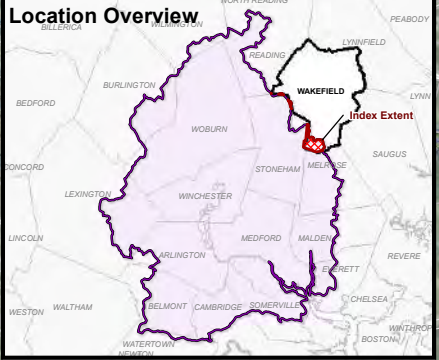
<b>LEGEND</b> Upper Mystic River Watershed Parcel Boundaries Roads (per MassDOT) Town Boundary Adjacent Town Boundary Water Detailed 2D Zone Coverage		<div><div></div> Present 2yr, 24 hr - 30% DCIA disconnection</div> <div><div></div> Present 2yr, 24 hr - Baseline</div> <div><div></div> 2070 10yr, 24 hr - Baseline (Exist. High Tide)</div> <div><div></div> 2070 10yr, 24 hr - Baseline (Future SLR Tide)</div> <div><div></div> 2070 10yr, 24 hr - Baseline (Future SLR Tide)</div> <div><div></div> 2070 100yr, 24 hr - Baseline (Exist. High Tide)</div>	<b>FEMA National Flood Hazard Layer FLD_ZONE</b> <div><div></div> 100-yr FEMA zones (A; AE; AH; AO)</div> <b>FEMA National Flood Hazard Layer FLD_ZONE</b> <div><div></div> 500-yr, other FEMA zones</div> <b>FLD_ZONE</b> 100-yr FEMA zones (A; AE; AH; AO)	<b>Note:</b> Mystic Viewer Tool (web version of flood layers) accessible at  <a href="https://geo.stantec.com/MysticRiver/viewer/">https://geo.stantec.com/MysticRiver/viewer/</a>  Contact Resilient Mystic Collaborative for login credentials.	<div> Bright People. Right Solutions. www.kleinfelder.com</div> <div></div>	PROJECT NO. 20201034.004A CREATED: 12/3/2020 CREATED BY: KJohnson CHECKED BY: _____ FILE NAME: Mapbook_Revised Flood Layers_Dec 2020.mxd	<b>FEMA and Regional Flood Model Outputs (by municipality)</b> <b>STONEHAM</b>  Mystic Watershed-Wide Analysis and MVP Grant FEMA and Regional Flood Model Maps Per Municipality STONEHAM, MA	FIGURE <b>12</b> of 17
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Date: 12/3/2020 User: KJohnson Path: \\azrgisstor01\GIS\_Projects\Client\MA\_Cambridge\20201034.004A- Watershed-Wide Analysis and MVP Grant\GISMXD\Mapbook\_Revised Flood Layers\_Dec 2020.mxd



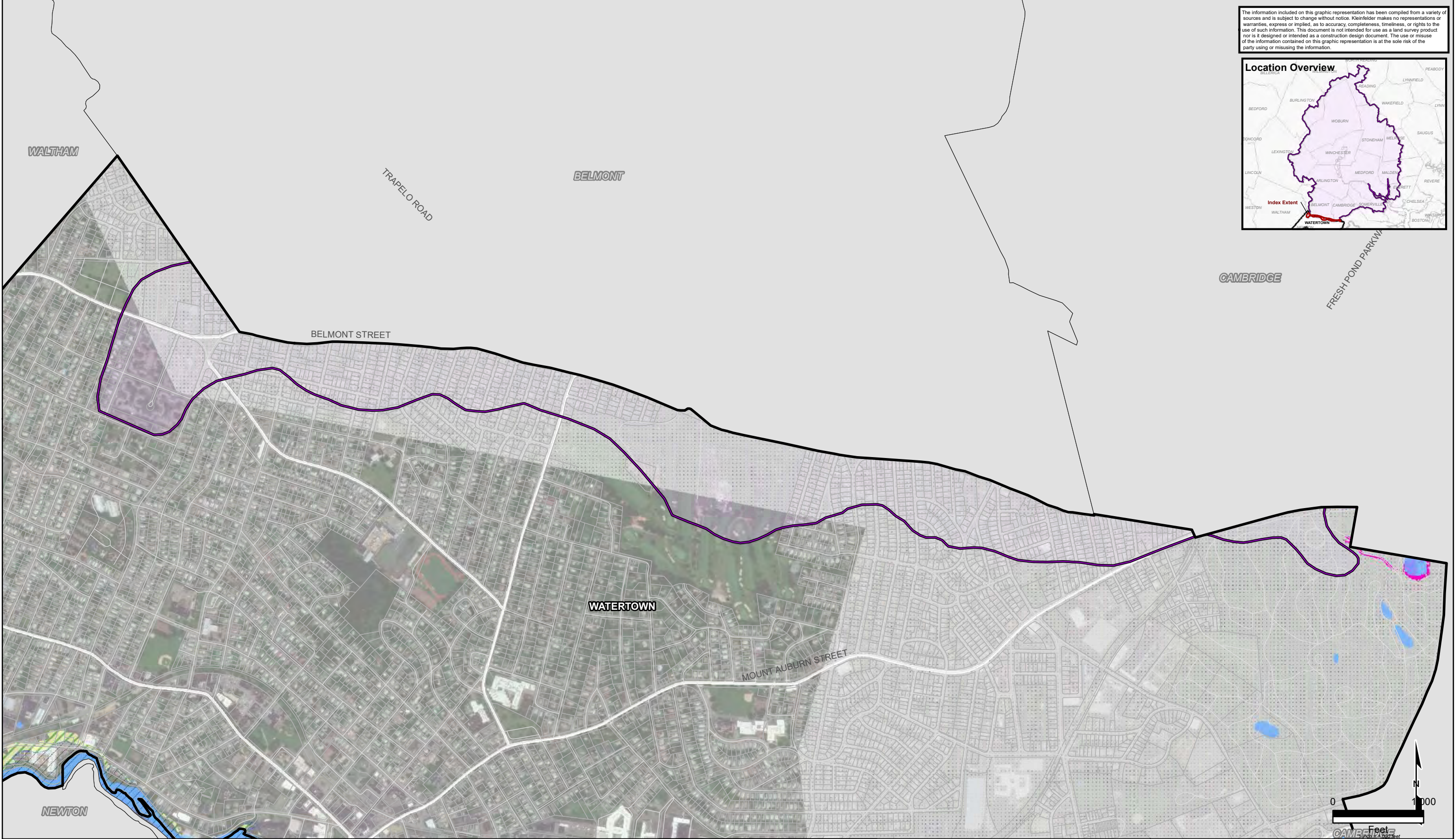
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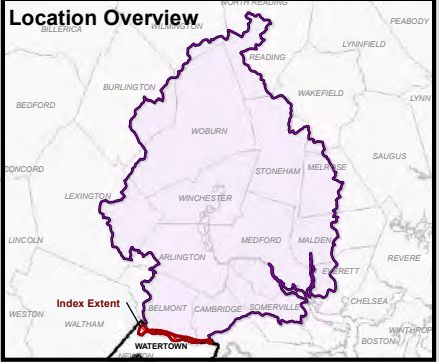
<b>LEGEND</b> Upper Mystic River Watershed Parcel Boundaries Roads (per MassDOT) Town Boundary Adjacent Town Boundary Water Detailed 2D Zone Coverage		Present 2yr, 24 hr - 30% DCIA disconnection Present 2yr, 24 hr - Baseline 2070 10yr, 24 hr - Baseline (Exist. High Tide) 2070 10yr, 24 hr - Baseline (Future SLR Tide) 2070 10yr, 24 hr - Baseline (Future SLR Tide) 2070 100yr, 24 hr - Baseline (Exist. High Tide)	<b>FEMA National Flood Hazard Layer FLD_ZONE</b> 100-yr FEMA zones (A; AE; AH; AO) <b>FEMA National Flood Hazard Layer FLD_ZONE</b> 500-yr, other FEMA zones 100-yr FEMA zones (A; AE; AH; AO)	<b>Note:</b> Mystic Viewer Tool (web version of flood layers) accessible at <a href="https://geo.stantec.com/MysticRiver/viewer/">https://geo.stantec.com/MysticRiver/viewer/</a>  Contact Resilient Mystic Collaborative for login credentials.	 Bright People. Right Solutions. www.kleinfelder.com 	PROJECT NO. 20201034.004A CREATED: 12/3/2020 CREATED BY: KJohnson CHECKED BY: _____ FILE NAME: Mapbook_Revised Flood Layers_Dec 2020.mxd	<b>FEMA and Regional Flood Model Outputs (by municipality) WAKEFIELD</b>  Mystic Watershed-Wide Analysis and MVP Grant FEMA and Regional Flood Model Maps Per Municipality WAKEFIELD, MA	FIGURE <b>13</b> of 17
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Date: 12/3/2020 User: KJohnson Path: \\azgisstor01\GIS\_Projects\Client\MA\_Cambridge\20201034\_004A- Watershed-Wide Analysis and MVP Grant\GISMXD\Mapbook\_Revised Flood Layers\_Dec 2020.mxd

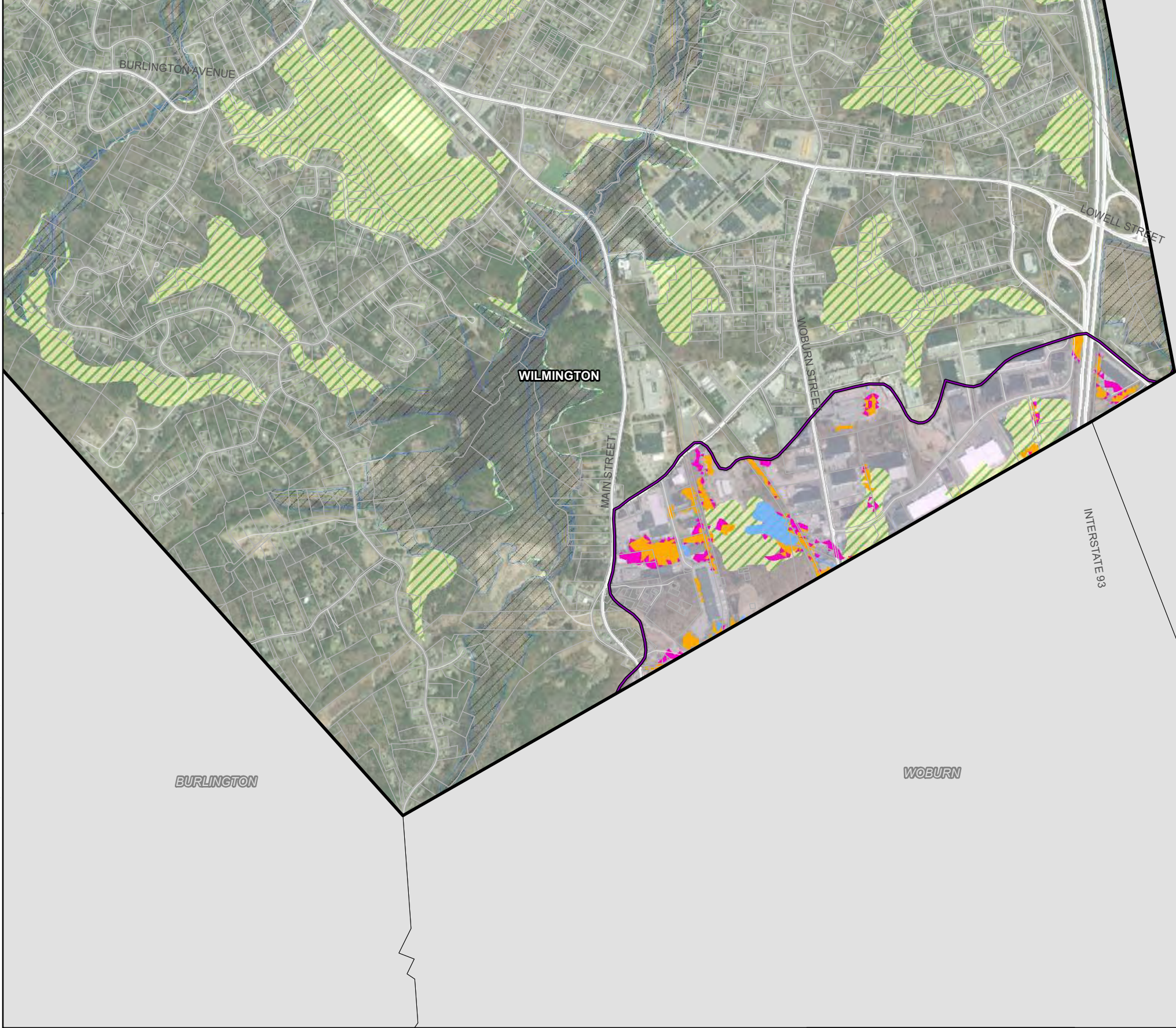


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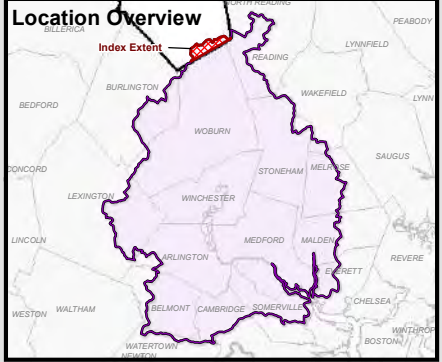


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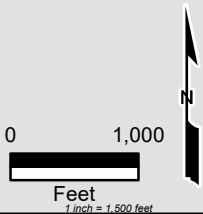




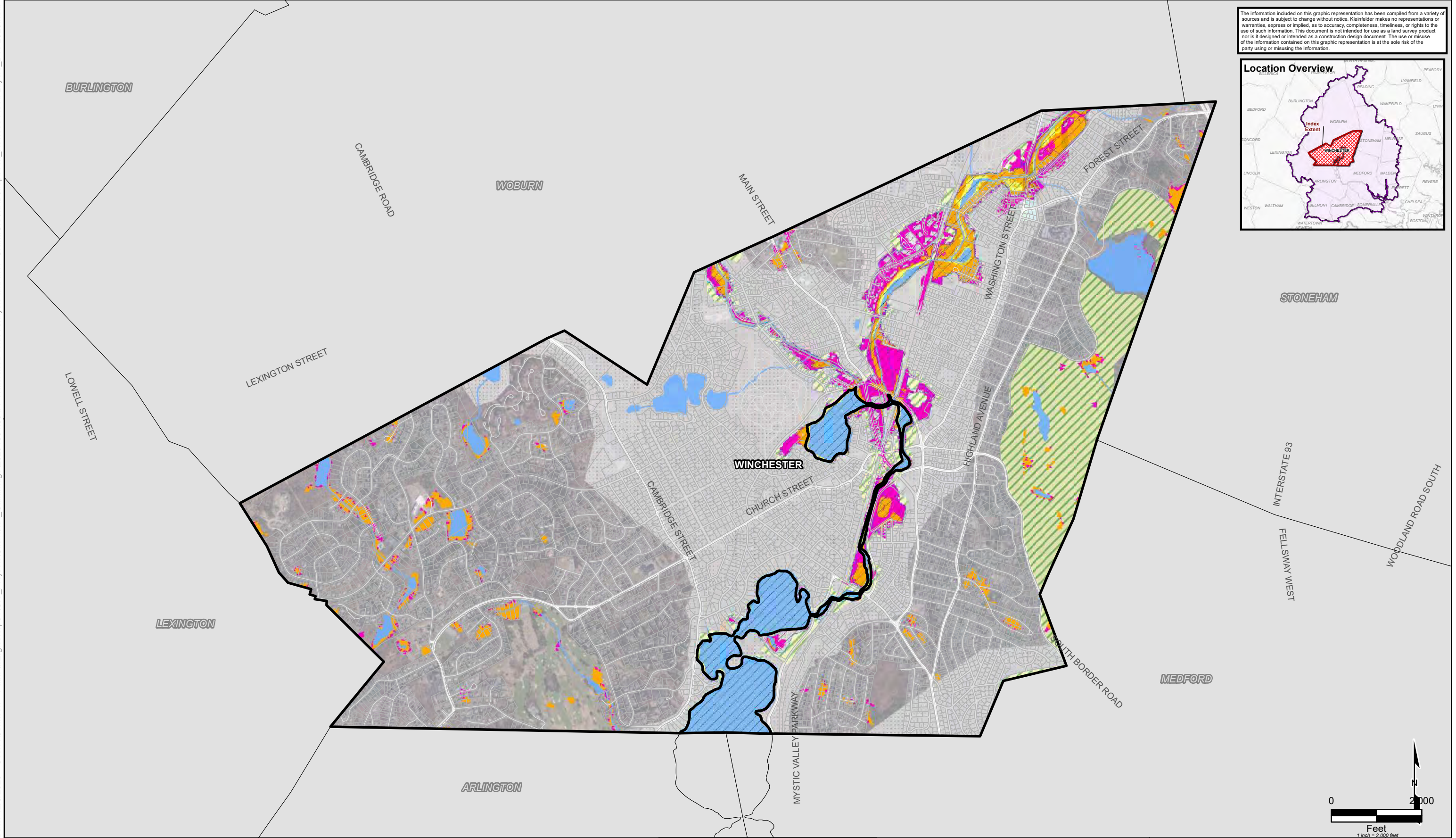
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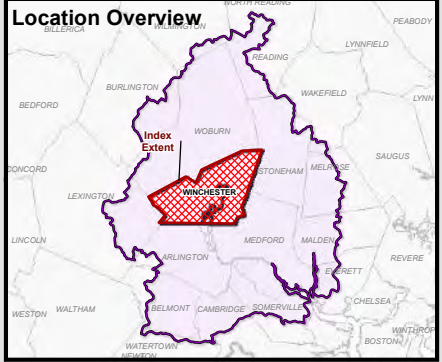
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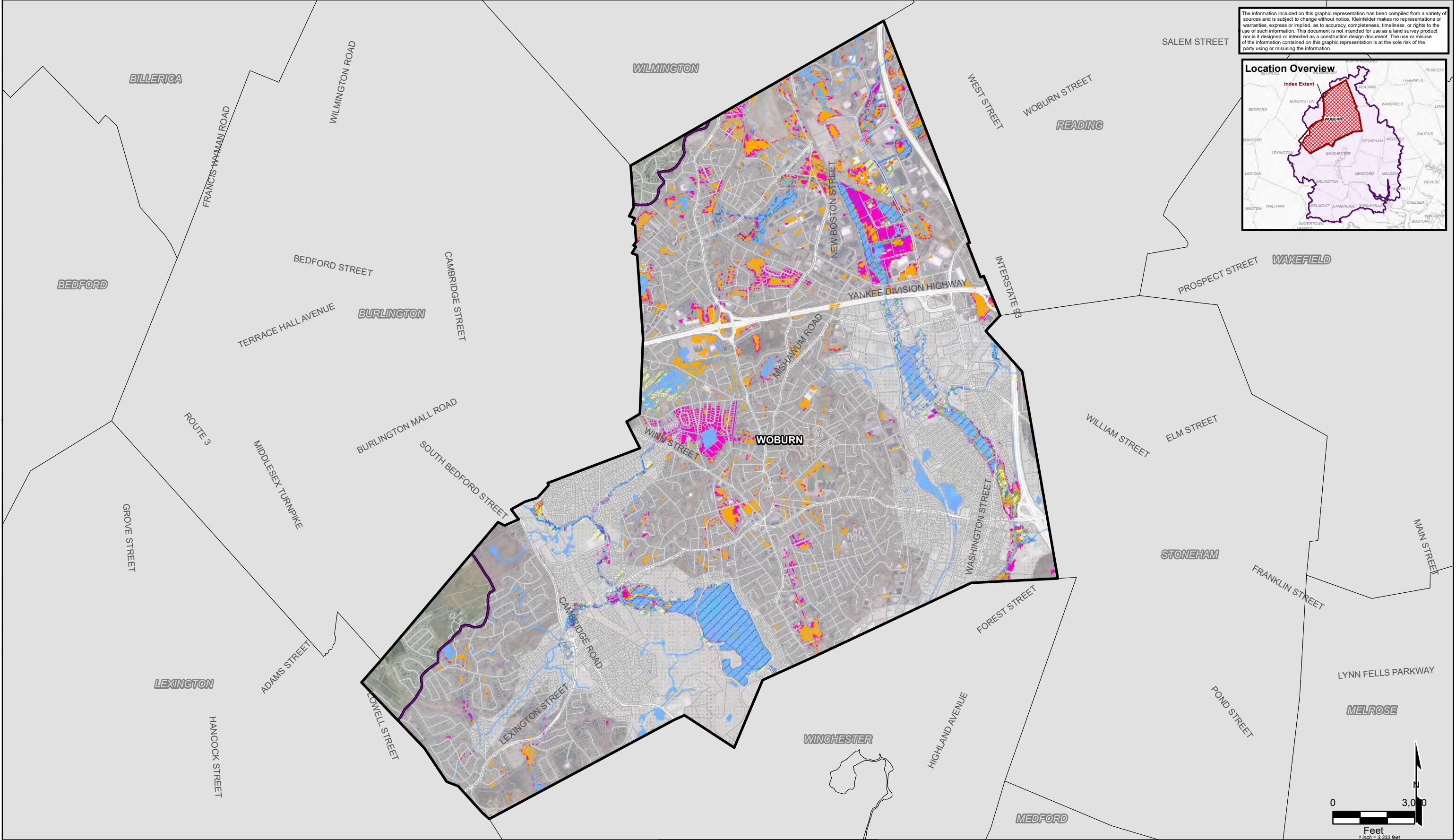
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Date: 12/3/2020 User: KJohnson Path: \\azrgisstor01\GIS\_Projects\Client\MA\_Cambridge\20201034.004A- Watershed-Wide Analysis and MVP Grant\GIS\MXD\Mapbook\_Revised Flood Layers\_Dec 2020.mxd



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# Appendix D

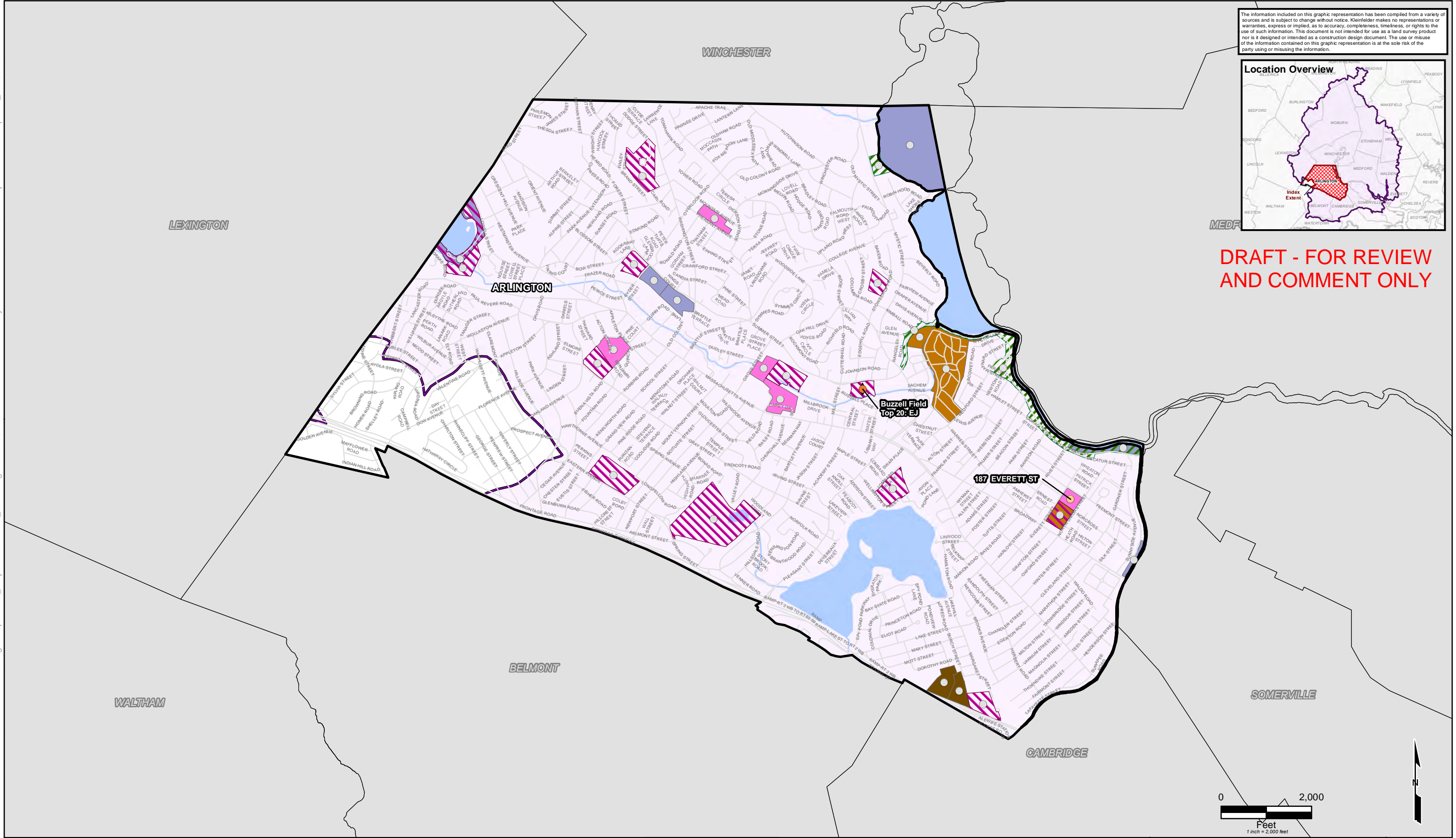
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GIS Mapbook of 3-acre Opportunity  
Sites by Land Use  
(January 2020 workshop)

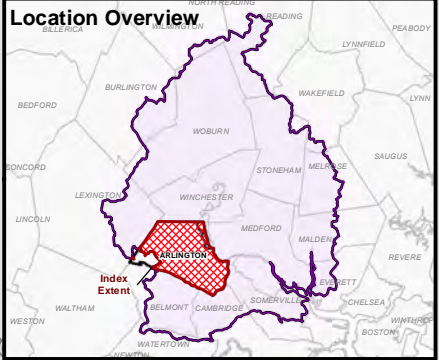


*Image credit: Kleinfelder*





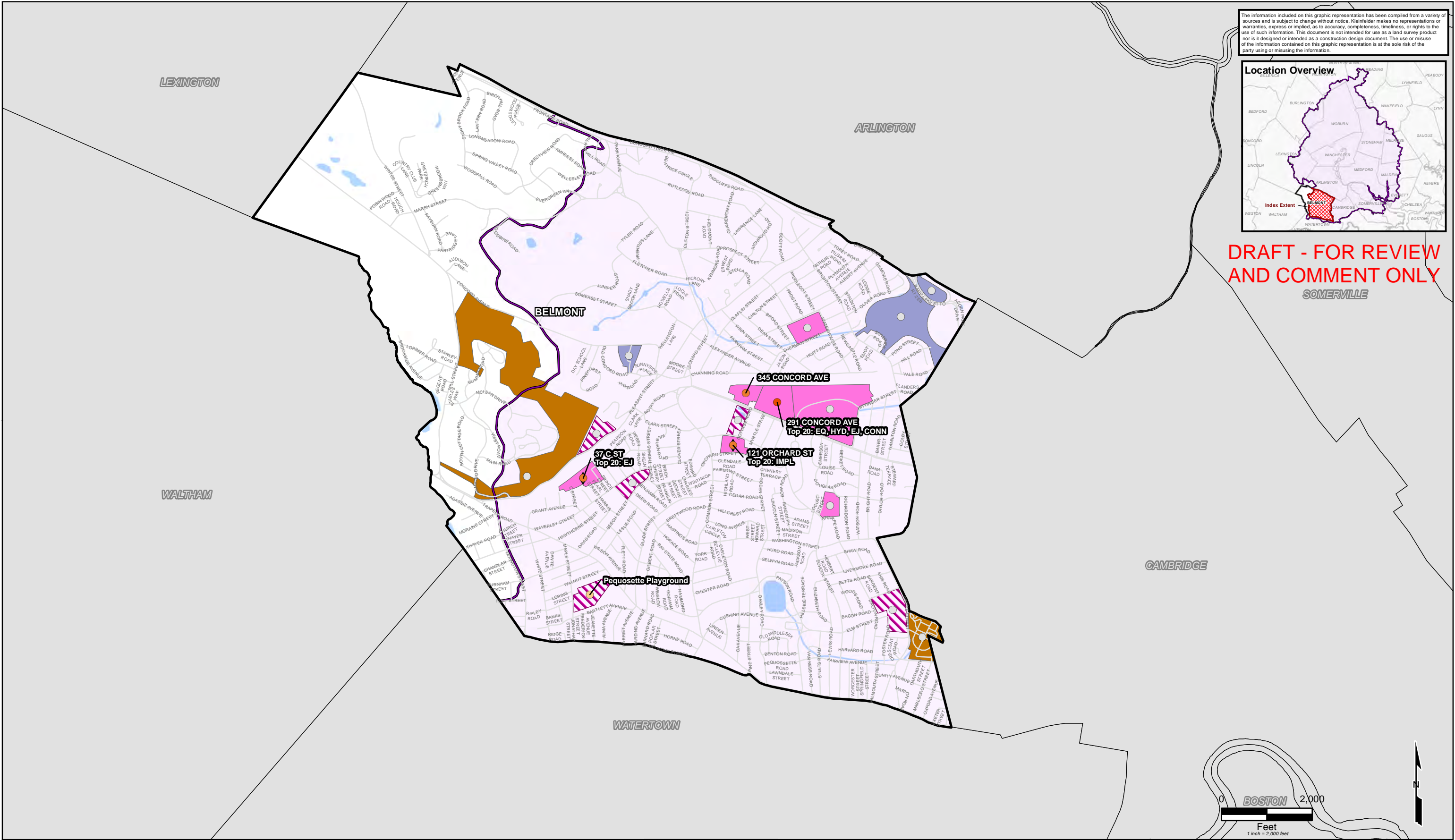
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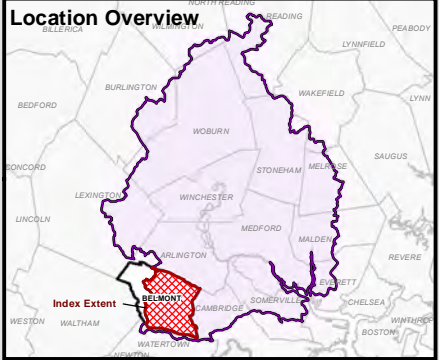
DRAFT - FOR REVIEW  
AND COMMENT ONLY

<b>LEGEND</b> <div><div><div><div></div><div>Roads (per MassDOT)</div></div><div><div></div><div>Town Boundary</div></div><div><div></div><div>Adjacent Town Boundary</div></div><div><div></div><div>Upper Mystic River Watershed</div></div><div><div></div><div>Water</div></div></div><div><div><div><div></div><div>Landuse Type (per Assessors' Data)</div></div><div><div></div><div>Municipality-Owned</div></div><div><div></div><div>State of Federal Land</div></div><div><div></div><div>Vacant Use, Municipal or Conservation</div></div><div><div></div><div>Vacant Use, Private</div></div><div><div></div><div>Public Open Space (per MassGIS)</div></div><div><div></div><div>DCR</div></div><div><div></div><div>Municipality-Owned</div></div></div><div><div><div><div></div><div>Equal-weight Score</div></div><div><div></div><div>Not Suitable</div></div><div><div></div><div>Lowest Score</div></div><div><div></div><div>Low</div></div><div><div></div><div>Medium</div></div><div><div></div><div>High</div></div><div><div></div><div>Highest Score</div></div></div><div><div><div><div></div><div>Scenarios In Top 20 (Type)</div></div><div><div></div><div>One Weighted Method</div></div><div><div></div><div>Two Weighted Methods</div></div><div><div></div><div>Three Weighted Methods</div></div><div><div></div><div>Four Weighted Methods</div></div><div><div></div><div>Five Weighted Methods</div></div></div></div><div><div><div><div></div><div>Note:</div></div><div><div><div>LandUse Types reflect latest version of municipality's Assessor's database as made available via MassGIS; refer to annotated LU Codebook metadata for categorization, updated June 2016)</div></div></div></div><div><div><div><div></div><div>KLEINFELDER</div><div>Bright People. Right Solutions.</div><div>www.kleinfelder.com</div></div></div><div><div><div><div>PROJECT NO. 20201034.004A</div><div>CREATED: 1/20/2020</div><div>CREATED BY: KJohnson</div><div>CHECKED BY: CP/KEJ</div><div>FILE NAME: GIS Mapbook_20200120.mxd</div></div></div><div><div><div><div>Opportunities By Town</div><div>ARLINGTON</div><div>prepared for: Resilient Mystic Collaborative</div><div>Mystic Watershed-Wide Analysis and MVP Grant</div><div>Landuse Overview Map</div><div>Per Town</div><div>ARLINGTON, MA</div></div></div><div><div><div>FIGURE</div><div>1</div><div>of 17</div></div></div></div></div></div></div></div></div></div>
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SOMERVILLE


CAMBRIDGE

WATERTOWN

LEXINGTON

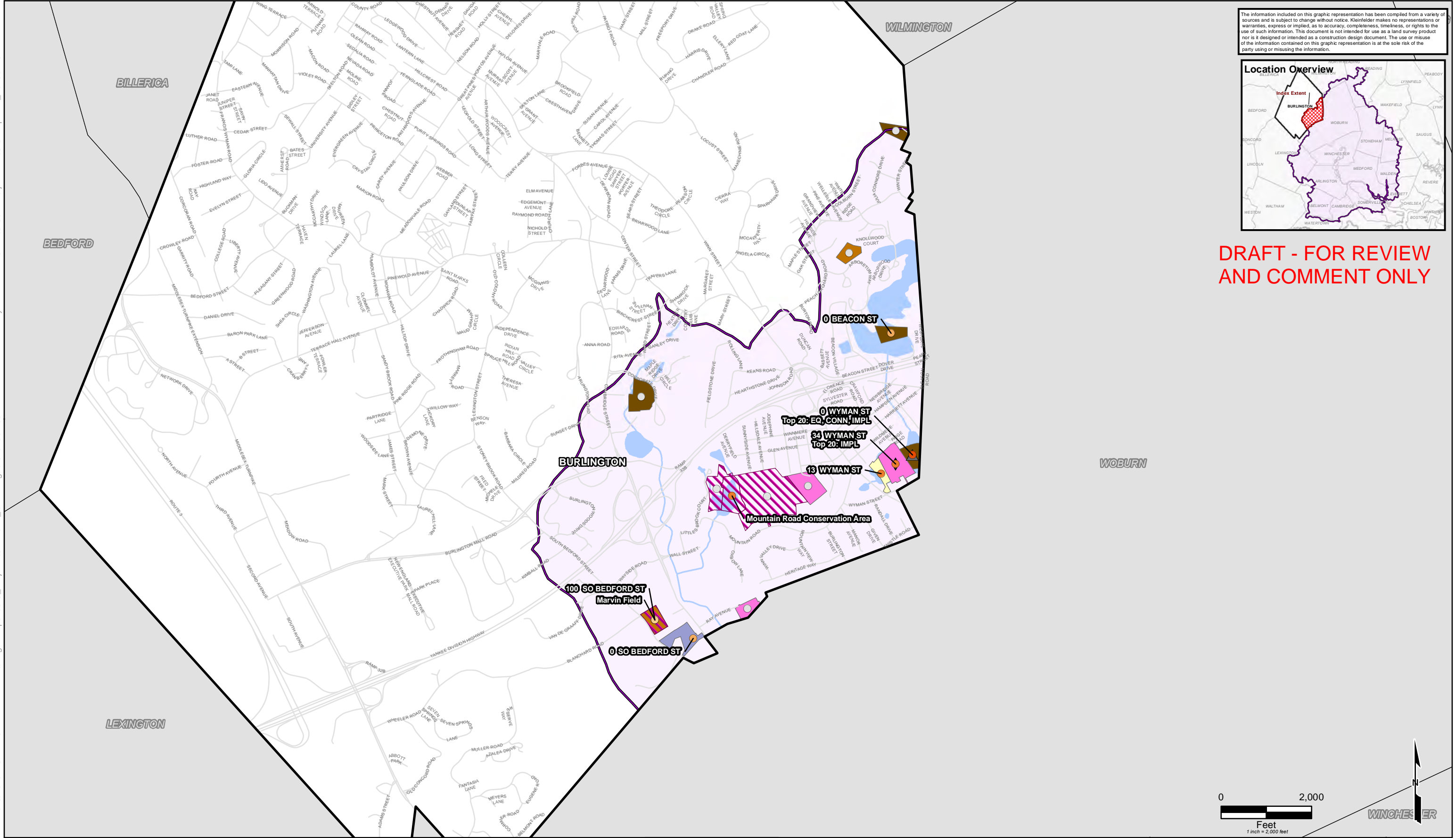
ARLINGTON

WALTHAM

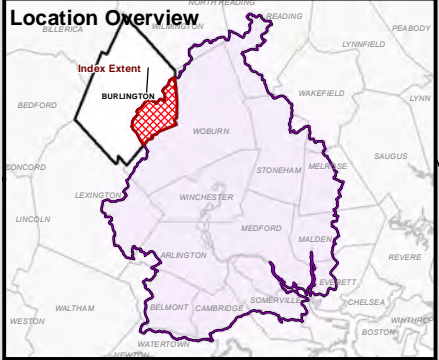
<b>LEGEND</b> <div><div><div>Roads (per MassDOT)</div><div>Town Boundary</div><div>Adjacent Town Boundary</div><div>Upper Mystic River Watershed</div><div>Water</div></div><div><div><b>Landuse Type (per Assessors' Data)</b></div><div>Municipality-Owned</div><div>State of Federal Land</div><div>Vacant Use, Municipal or Conservation</div><div><b>Public Open Space (per MassGIS)</b></div><div>Municipality-Owned</div><div>Other</div></div><div><div><b>Equal-weight Score</b></div><div>Not Suitable</div><div>Lowest Score</div><div>Low</div><div>Medium</div><div>High</div><div>Highest Score</div></div><div><div><b>Scenarios In Top 20 (Type)</b></div><div>One Weighted Method</div><div>Two Weighted Methods</div><div>Three Weighted Methods</div><div>Four Weighted Methods</div><div>Five Weighted Methods</div></div></div>			<b>Note:</b> <div>LandUse Types reflect latest version of municipality's Assessor's database as made available via MassGIS; refer to annotated LU Codebook metadata for categorization, updated June 2016)</div> <div><div>Bright People. Right Solutions.</div><div>www.kleinfelder.com</div></div>		PROJECT NO. 20201034.004A CREATED: 1/20/2020 CREATED BY: KJohnson CHECKED BY: CP/KEJ FILE NAME: GIS Mapbook_20200120.mxd	Opportunities By Town BELMONT prepared for: Resilient Mystic Collaborative Mystic Watershed-Wide Analysis and MVP Grant Landuse Overview Map Per Town BELMONT, MA	FIGURE 2 of 17
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Date: 1/20/2020 User: KJohnson Path: \\azgisstor01\GIS\_Projects\Client\MA\_Cambridge\20201034.004A- Watershed-Wide Analysis and MVP Grant\GIS\MXD\kij scratch\GIS Mapbook\_20200120.mxd



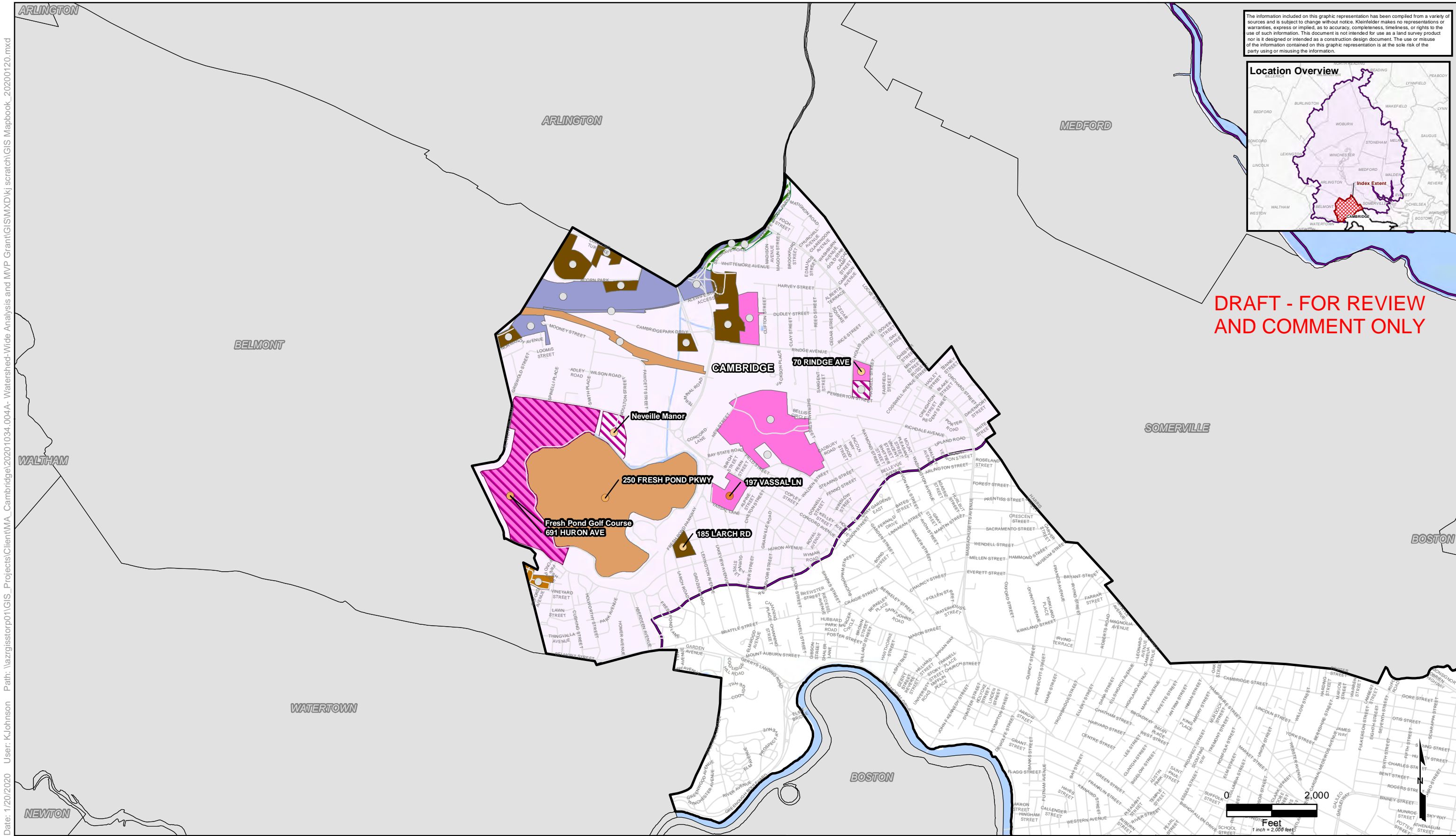
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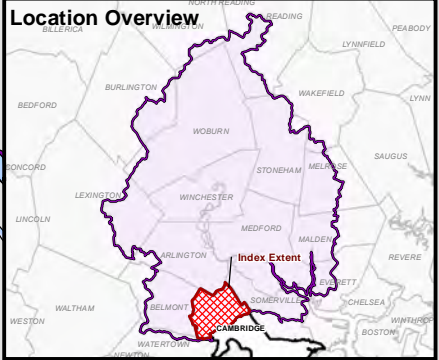
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<b>LEGEND</b> Roads (per MassDOT) Town Boundary Adjacent Town Boundary Upper Mystic River Watershed Water  <b>Landuse Type (per Assessors' Data)</b> Municipality-Owned State of Federal Land Vacant Use, Municipal or Conservation Vacant Use, Private Unknown <b>Public Open Space (per MassGIS)</b> Municipality-Owned  <b>Equal-weight Score</b> Not Suitable Lowest Score Low Medium High Highest Score  <b>Scenarios In Top 20 (Type)</b> One Weighted Method Two Weighted Methods Three Weighted Methods Four Weighted Methods Five Weighted Methods	<b>Note:</b> LandUse Types reflect latest version of municipality's Assessor's database as made available via MassGIS; refer to annotated LU Codebook metadata for categorization, updated June 2016)   Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20201034.004A CREATED: 1/20/2020 CREATED BY: KJohnson CHECKED BY: CP/KEJ FILE NAME: GIS Mapbook_20200120.mxd	Opportunities By Town BURLINGTON prepared for: Resilient Mystic Collaborative Mystic Watershed-Wide Analysis and MVP Grant Landuse Overview Map Per Town BURLINGTON, MA	FIGURE 3 of 17
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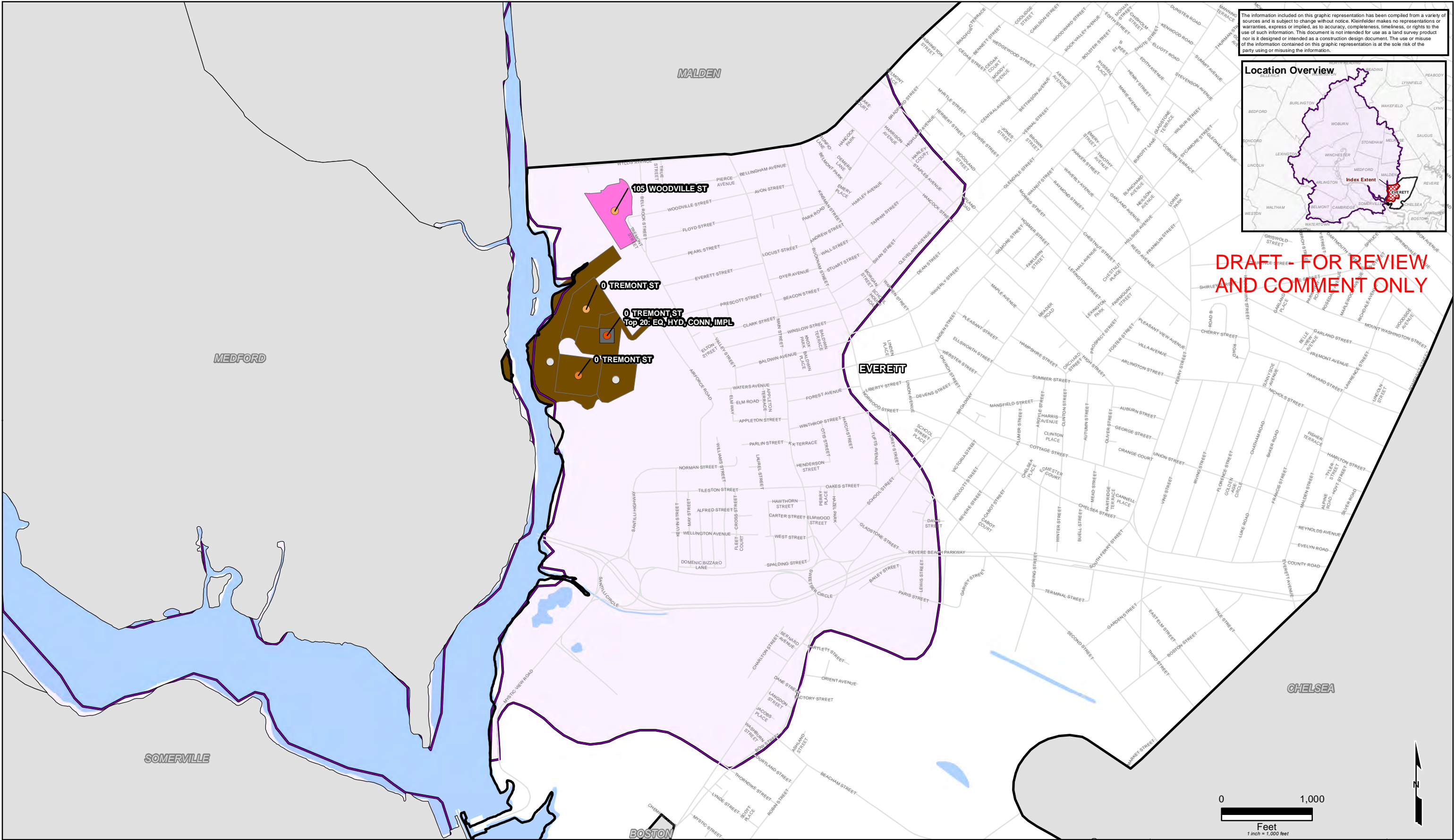


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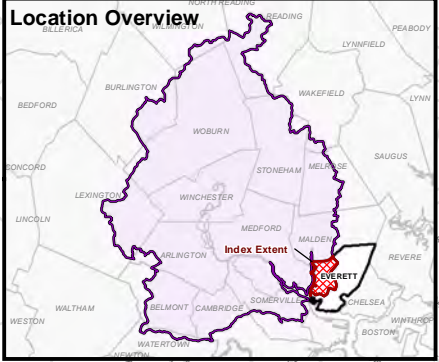


<b>LEGEND</b> Roads (per MassDOT) Town Boundary Adjacent Town Boundary Upper Mystic River Watershed Water	<b>Landuse Type (per Assessors' Data)</b> Municipality-Owned State of Federal Land Vacant Use, Municipal or Conservation Vacant Use, Quasi-Public Vacant Use, Private <b>Public Open Space (per MassGIS)</b> DCR Municipality-Owned	<b>Equal-weight Score</b> Not Suitable Lowest Score Low Medium High Highest Score	<b>Scenarios In Top 20 (Type)</b> One Weighted Method Two Weighted Methods Three Weighted Methods Four Weighted Methods Five Weighted Methods	<b>Note:</b> LandUse Types reflect latest version of municipality's Assessor's database as made available via MassGIS; refer to annotated LU Codebook metadata for categorization, updated June 2016)	 Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20201034.004A CREATED: 1/20/2020 CREATED BY: KJohnson CHECKED BY: CP/KEJ FILE NAME: GIS Mapbook_20200120.mxd	<b>Opportunities By Town</b> <b>CAMBRIDGE</b> prepared for: Resilient Mystic Collaborative Mystic Watershed-Wide Analysis and MVP Grant Landuse Overview Map Per Town CAMBRIDGE, MA	<b>FIGURE</b> 4 of 17
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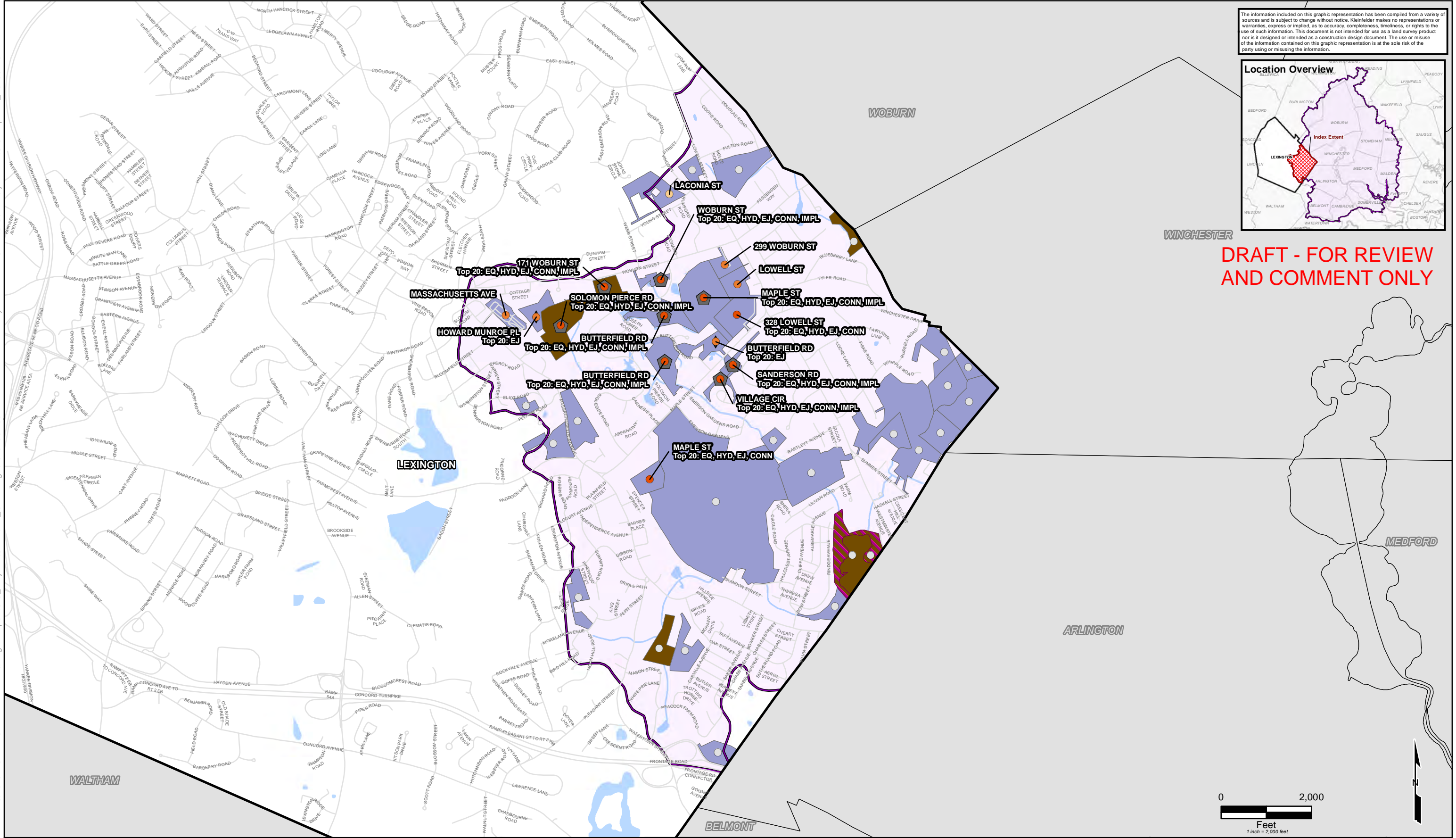
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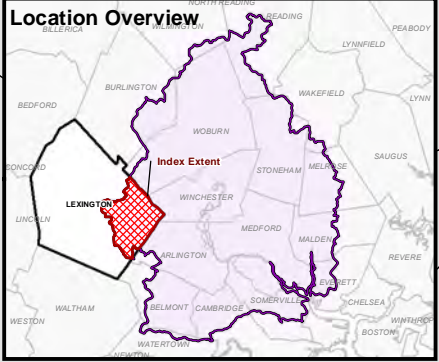
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<b>LEGEND</b> <div><div><div><div></div><div>Roads (per MassDOT)</div></div><div><div></div><div>Town Boundary</div></div><div><div></div><div>Adjacent Town Boundary</div></div><div><div></div><div>Upper Mystic River Watershed</div></div><div><div></div><div>Water</div></div></div><div><div><div><div></div><div>Landuse Type (per Assessors' Data)</div></div><div><div></div><div>Municipality-Owned</div></div><div><div></div><div>Vacant Use, Private</div></div></div><div><div><div><div></div><div>Equal-weight Score</div></div><div><div></div><div>Not Suitable</div></div><div><div></div><div>Lowest Score</div></div><div><div></div><div>Low</div></div><div><div></div><div>Medium</div></div><div><div></div><div>High</div></div><div><div></div><div>Highest Score</div></div></div><div><div><div><div></div><div>Scenarios In Top 20 (Type)</div></div><div><div></div><div>One Weighted Method</div></div><div><div></div><div>Two Weighted Methods</div></div></div><div><div><div><div></div><div>Three Weighted Methods</div></div><div><div></div><div>Four Weighted Methods</div></div><div><div></div><div>Five Weighted Methods</div></div></div></div></div></div></div></div>			<b>Note:</b> <p>LandUse Types reflect latest version of municipality's Assessor's database as made available via MassGIS; refer to annotated LU Codebook metadata for categorization, updated June 2016)</p>		 <p>Bright People. Right Solutions. www.kleinfelder.com</p>	PROJECT NO. 20201034.004A CREATED: 1/20/2020 CREATED BY: KJohnson CHECKED BY: CP/KEJ FILE NAME: GIS Mapbook_20200120.mxd		Opportunities By Town EVERETT prepared for: Resilient Mystic Collaborative Mystic Watershed-Wide Analysis and MVP Grant Landuse Overview Map Per Town EVERETT, MA		FIGURE 5 of 17
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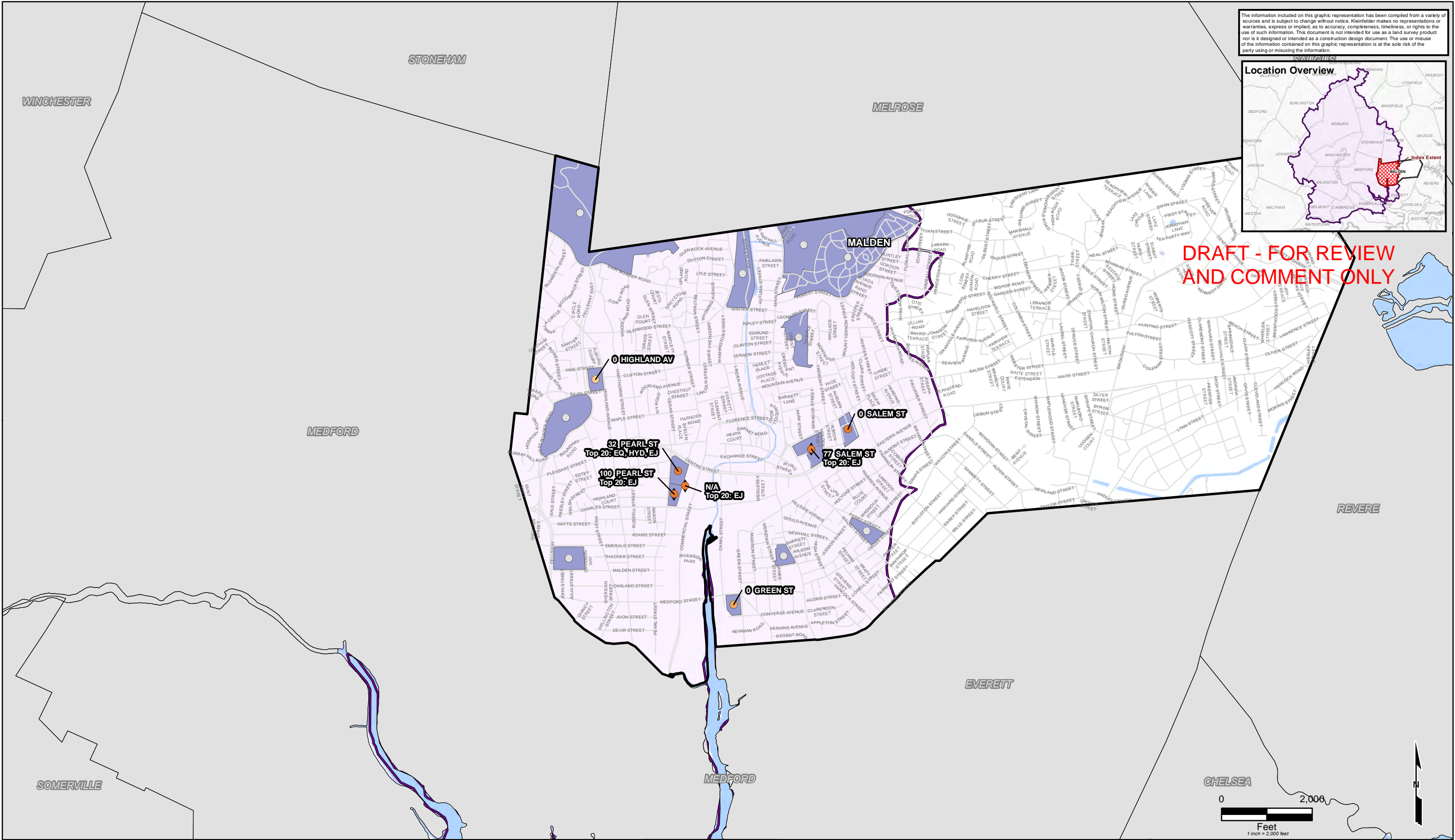


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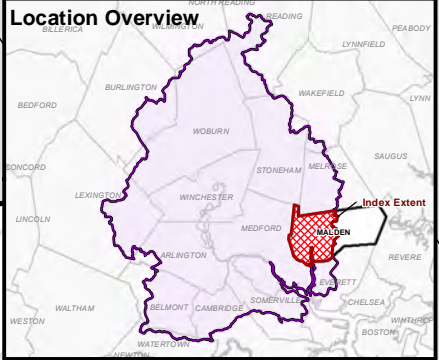


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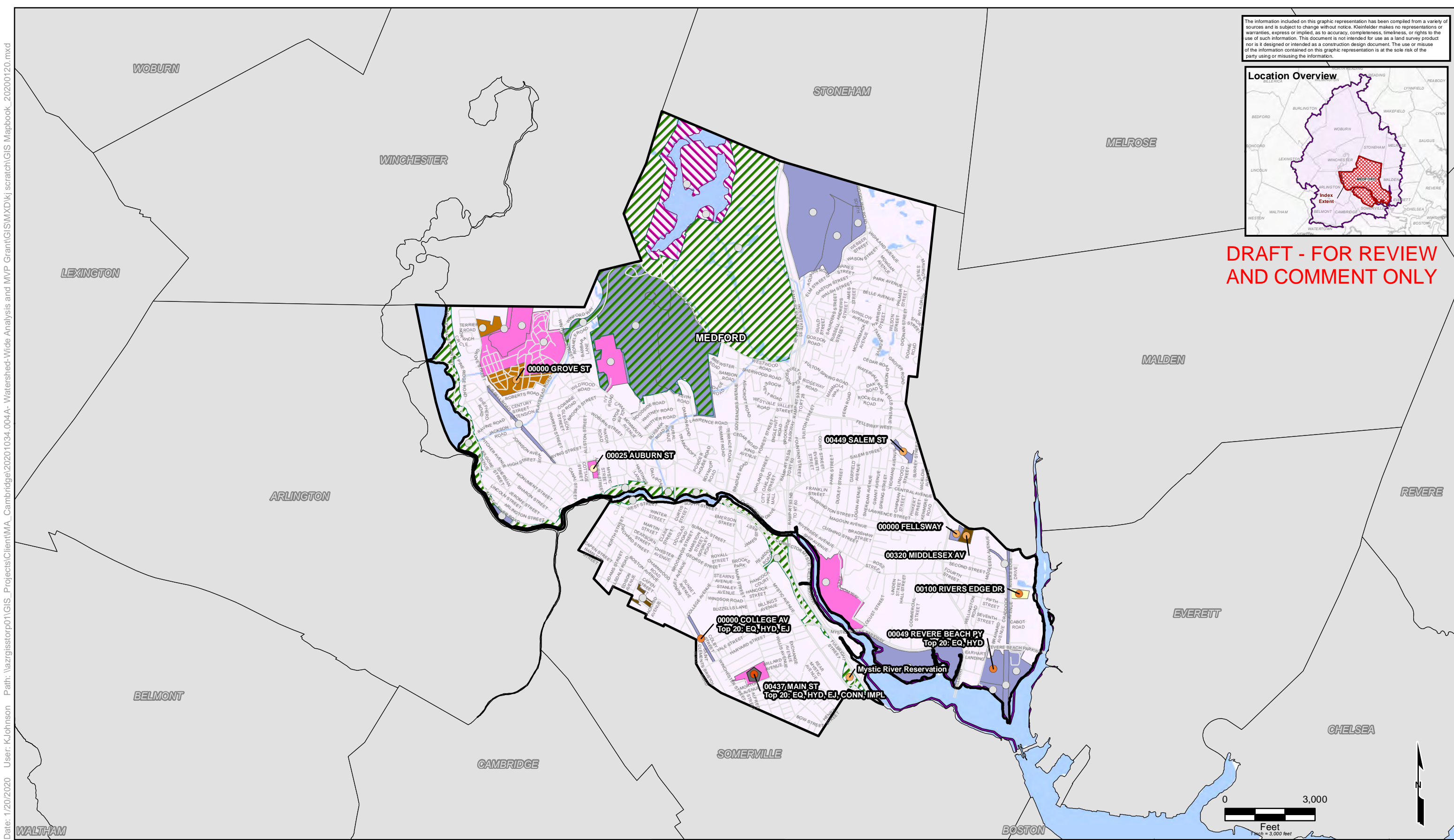
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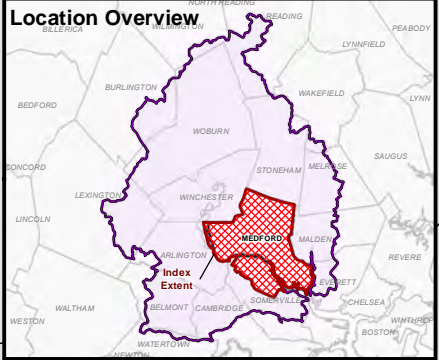
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Date: 1/20/2020 User: KJohnson Path: \\azgis\storp01\GIS\_Projects\Client\MA\_Cambridge\20201034.004A- Watershed-Wide Analysis and MVP Grant\GIS\WDXD\k scratch\GIS Mapbook\_20200120.mxd



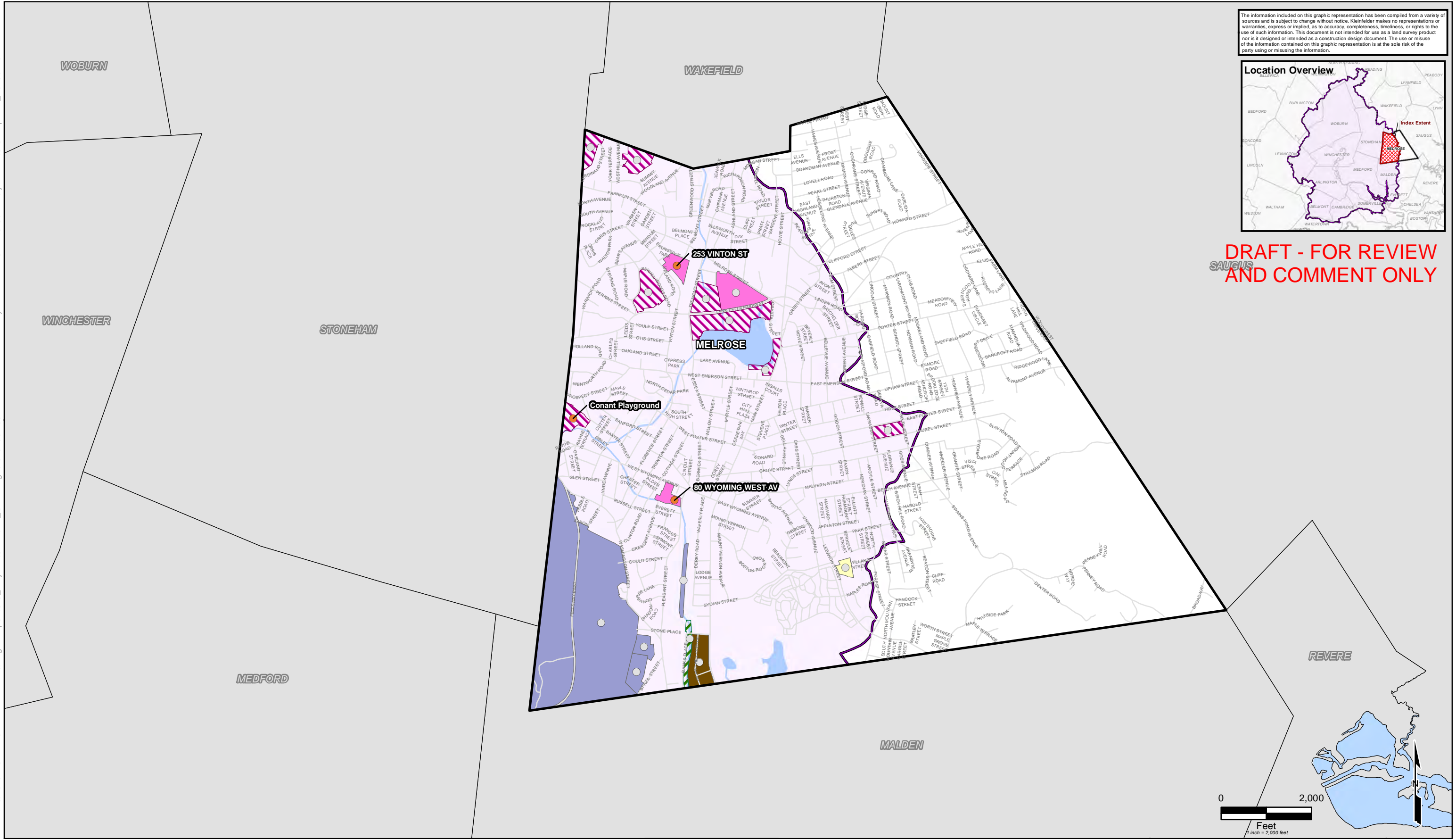
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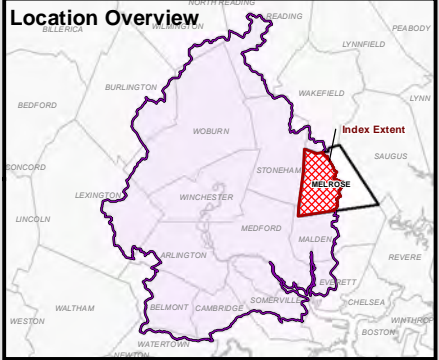
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<b>LEGEND</b> <div><div><div>Roads (per MassDOT)</div><div>Town Boundary</div><div>Adjacent Town Boundary</div><div>Upper Mystic River Watershed</div><div>Water</div></div><div><div><b>Landuse Type (per Assessors' Data)</b></div><div>Municipality-Owned</div><div>State of Federal Land</div><div>Vacant Use, Municipal or Conservation</div><div>Vacant Use, Private</div><div>Unknown</div><div><b>Public Open Space (per MassGIS)</b></div><div>DCR</div><div>Municipality-Owned</div></div><div><div><b>Equal-weight Score</b></div><div>Not Suitable</div><div>Lowest Score</div><div>Low</div><div>Medium</div><div>High</div><div>Highest Score</div></div><div><div><b>Scenarios In Top 20 (Type)</b></div><div>One Weighted Method</div><div>Two Weighted Methods</div><div>Three Weighted Methods</div><div>Four Weighted Methods</div><div>Five Weighted Methods</div></div></div>			<b>Note:</b> <p>LandUse Types reflect latest version of municipality's Assessor's database as made available via MassGIS; refer to annotated LU Codebook metadata for categorization, updated June 2016)</p>		<div>Bright People. Right Solutions.</div> <div>www.kleinfelder.com</div>	PROJECT NO. 20201034.004A CREATED: 1/20/2020 CREATED BY: KJohnson CHECKED BY: CP/KEJ FILE NAME: GIS Mapbook_20200120.mxd		<b>Opportunities By Town</b> <b>MEDFORD</b> prepared for: Resilient Mystic Collaborative Mystic Watershed-Wide Analysis and MVP Grant Landuse Overview Map Per Town MEDFORD, MA		<b>FIGURE</b> <b>8</b> of 17
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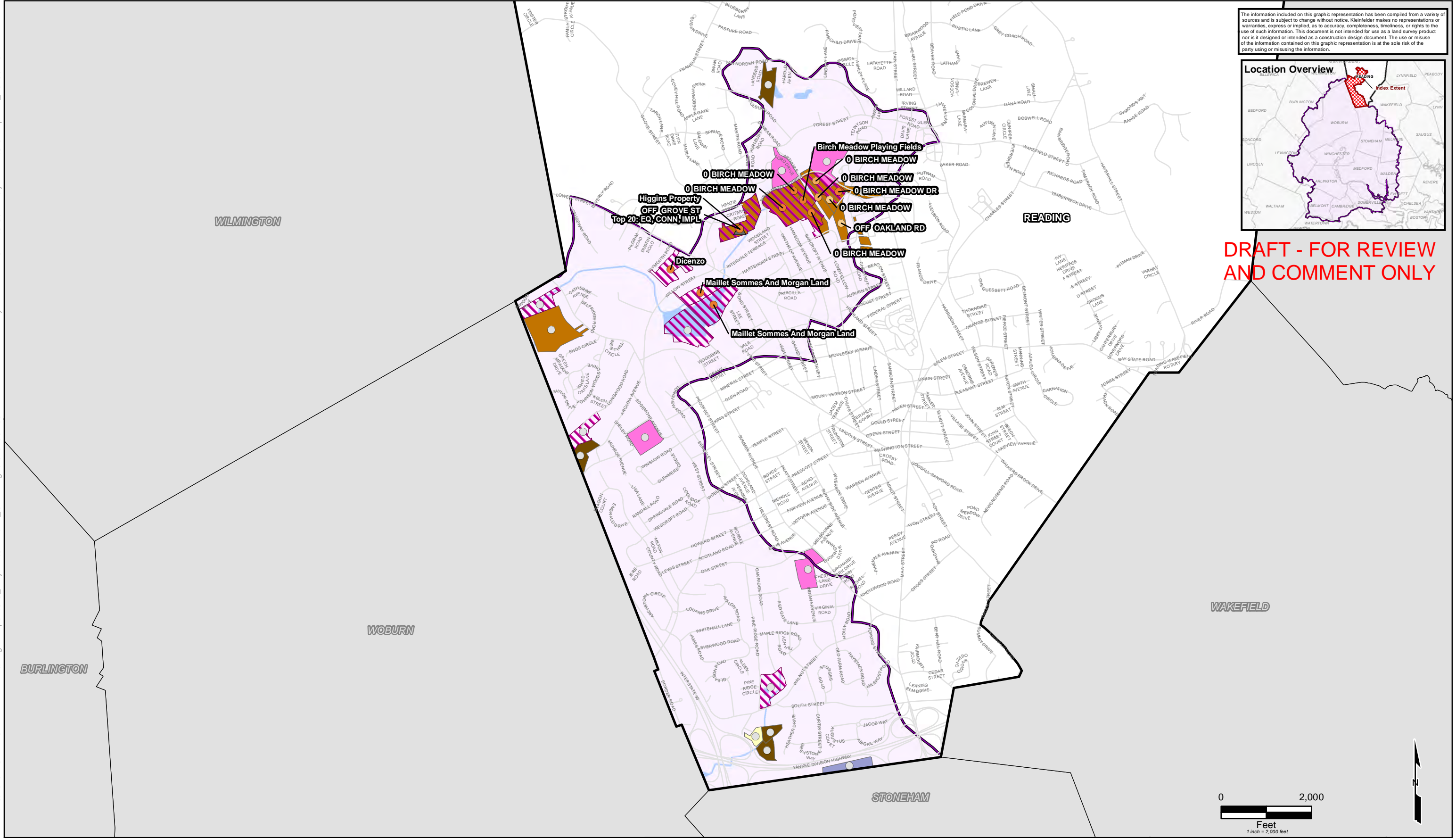
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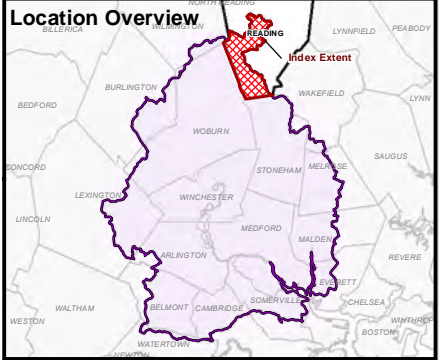
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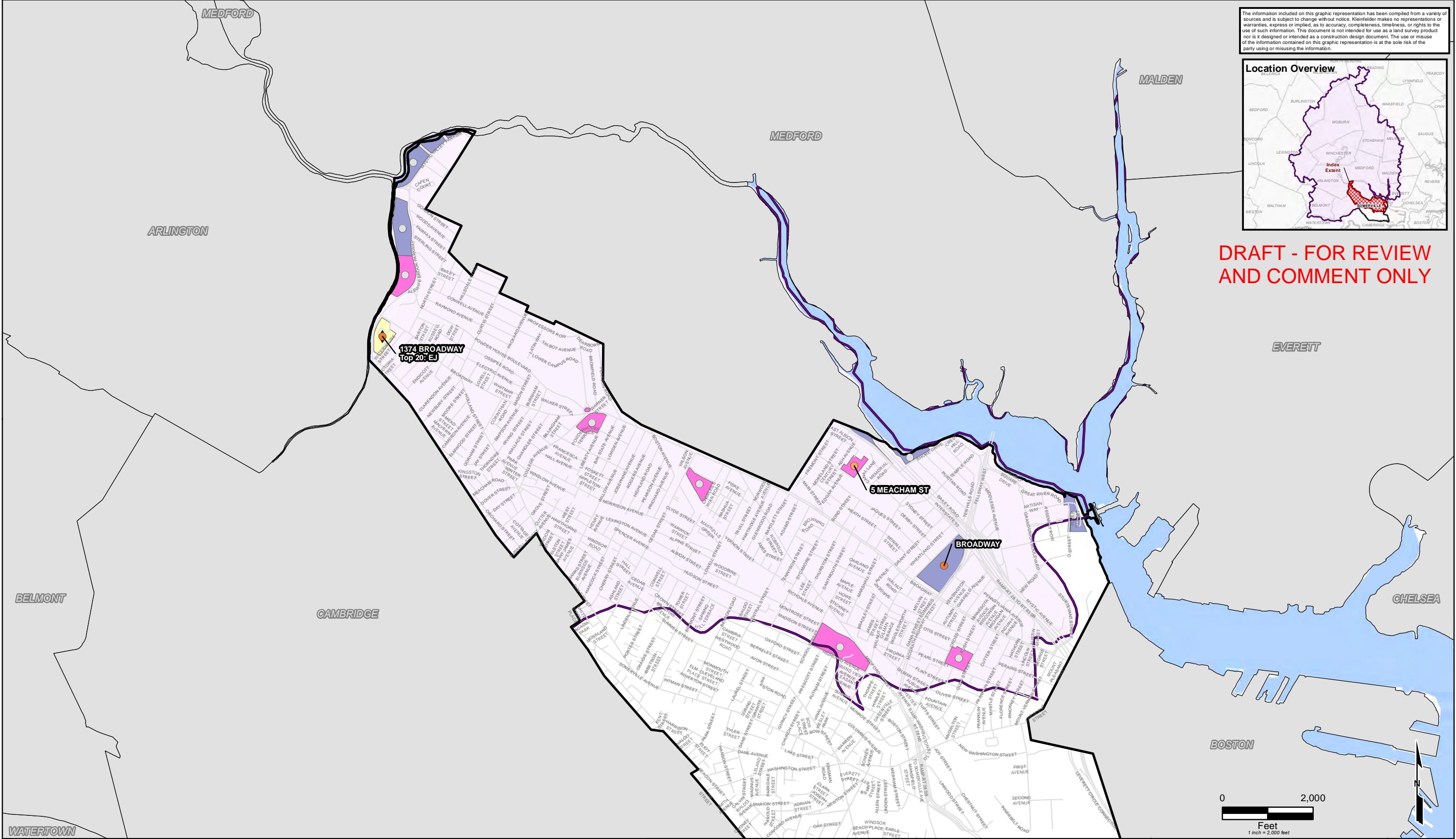
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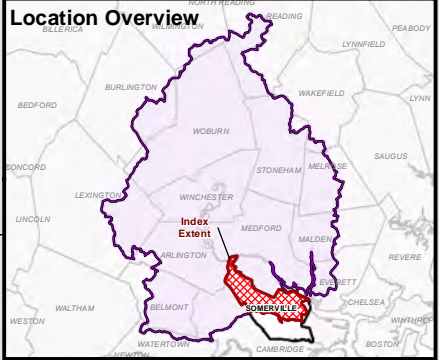
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<div>LEGEND</div> <div><div><div>Roads (per MassDOT)</div><div>Town Boundary</div><div>Adjacent Town Boundary</div><div>Upper Mystic River Watershed</div><div>Water</div></div><div><div>Landuse Type (per Assessors' Data)</div><div>Municipality-Owned</div><div>State of Federal Land</div><div>Vacant Use, Municipal or Conservation</div><div>Vacant Use, Private</div><div>Unknown</div><div>Public Open Space (per MassGIS)</div><div>Municipality-Owned</div></div><div><div>Equal-weight Score</div><div>Not Suitable</div><div>Lowest Score</div><div>Low</div><div>Medium</div><div>High</div><div>Highest Score</div></div><div><div>Scenarios In Top 20 (Type)</div><div>One Weighted Method</div><div>Two Weighted Methods</div><div>Three Weighted Methods</div><div>Four Weighted Methods</div><div>Five Weighted Methods</div></div></div>			<div>Note:</div> <div>LandUse Types reflect latest version of municipality's Assessor's database as made available via MassGIS; refer to annotated LU Codebook metadata for categorization, updated June 2016)</div>		<div><div><div><div><div></div><div></div><div></div></div><div><div>KLEINFELDER</div><div>Bright People. Right Solutions.</div><div>www.kleinfelder.com</div></div></div></div></div>	<div>PROJECT NO. 20201034.004A</div> <div>CREATED: 1/20/2020</div> <div>CREATED BY: KJohnson</div> <div>CHECKED BY: CP/KEJ</div> <div>FILE NAME: GIS Mapbook_20200120.mxd</div>		<div>Opportunities By Town</div> <div>READING</div> <div>prepared for: Resilient Mystic Collaborative</div> <div>Mystic Watershed-Wide Analysis and MVP Grant</div> <div>Landuse Overview Map</div> <div>Per Town</div> <div>READING, MA</div>		<div>FIGURE</div> <div>10</div> <div>of 17</div>
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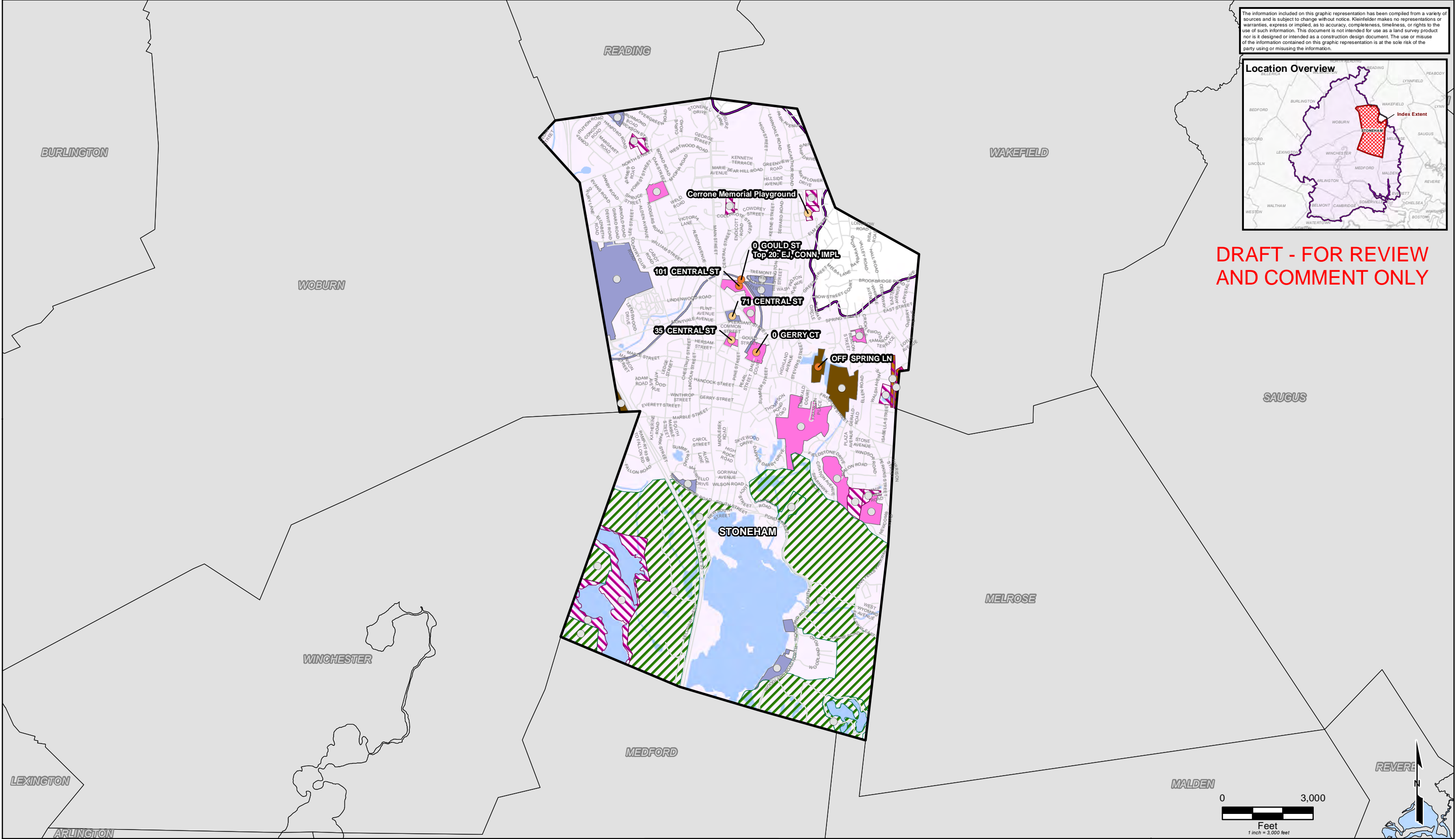
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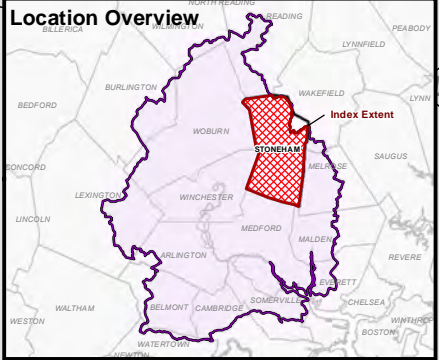
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<b>LEGEND</b> Roads (per MassDOT) Town Boundary Adjacent Town Boundary Upper Mystic River Watershed Water	<b>Landuse Type (per Assessors' Data)</b> Municipality-Owned State of Federal Land Unknown <b>Public Open Space (per MassGIS)</b> DCR	<b>Equal-weight Score</b> Not Suitable Lowest Score Low Medium High Highest Score	<b>Scenarios In Top 20 (Type)</b> One Weighted Method Two Weighted Methods Three Weighted Methods Four Weighted Methods Five Weighted Methods	<b>Note:</b> LandUse Types reflect latest version of municipality's Assessor's database as made available via MassGIS; refer to annotated LU Codebook metadata for categorization, updated June 2016)	 Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20201034.004A CREATED: 1/20/2020 CREATED BY: KJohnson CHECKED BY: CP/KEJ FILE NAME: GIS Mapbook_20200120.mxd	<b>Opportunities By Town</b> <b>SOMERVILLE</b> prepared for: Resilient Mystic Collaborative Mystic Watershed-Wide Analysis and MVP Grant Per Town SOMERVILLE, MA	<b>FIGURE</b> <b>11</b> of 17
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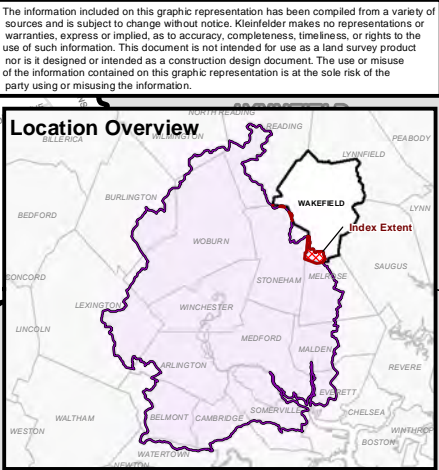
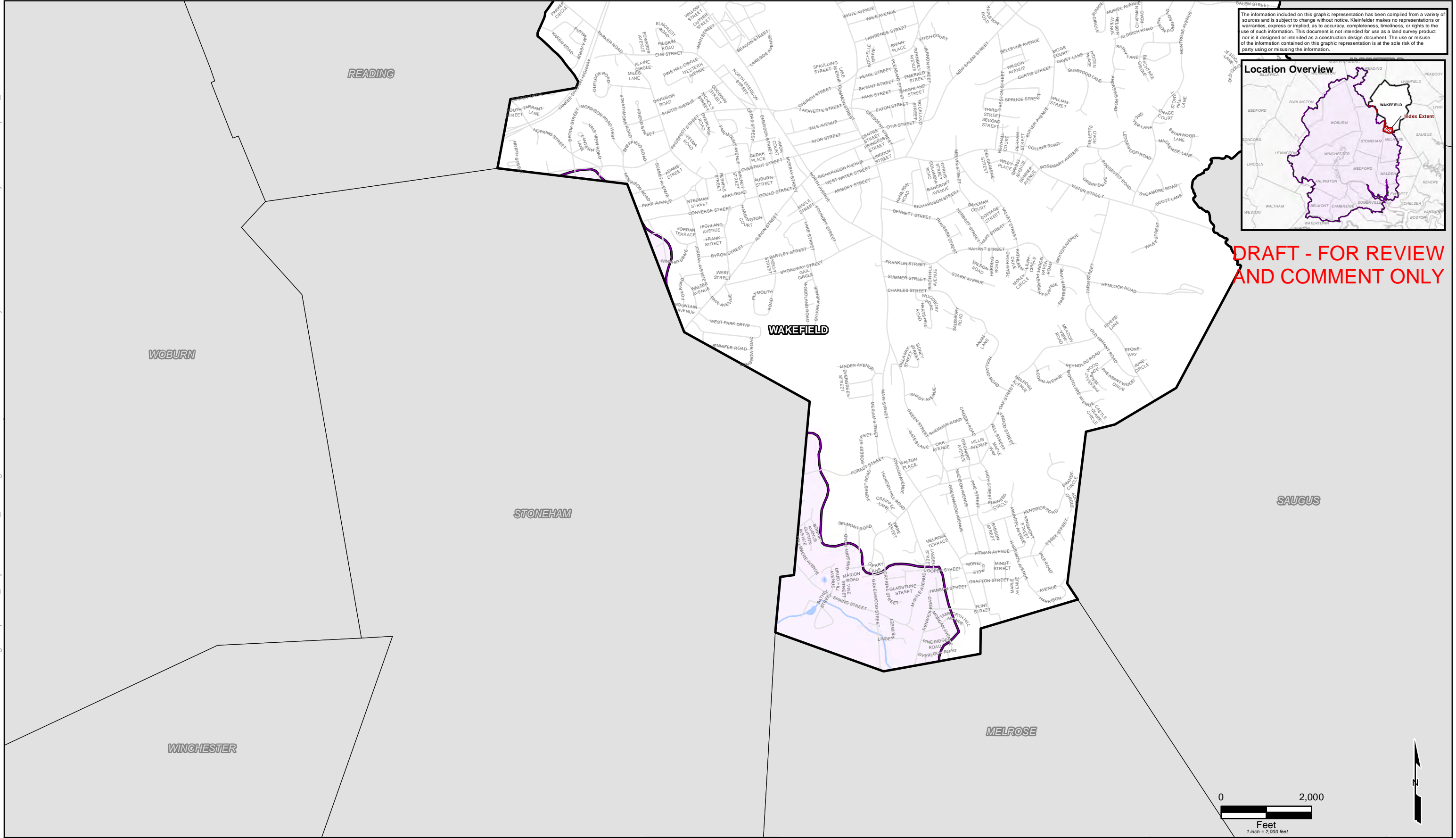
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<b>LEGEND</b> Roads (per MassDOT) Town Boundary Adjacent Town Boundary Upper Mystic River Watershed Water	<b>Landuse Type (per Assessors' Data)</b> Municipality-Owned State of Federal Land Vacant Use, Municipal or Conservation Vacant Use, Private <b>Public Open Space (per MassGIS)</b> DCR Municipality-Owned	<b>Equal-weight Score</b> Not Suitable Lowest Score Low Medium High Highest Score	<b>Scenarios In Top 20 (Type)</b> One Weighted Method Two Weighted Methods Three Weighted Methods Four Weighted Methods Five Weighted Methods	<b>Note:</b> LandUse Types reflect latest version of municipality's Assessor's database as made available via MassGIS; refer to annotated LU Codebook metadata for categorization, updated June 2016)	 Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20201034.004A CREATED: 1/20/2020 CREATED BY: KJohnson CHECKED BY: CP/KEJ FILE NAME: GIS Mapbook_20200120.mxd	Opportunities By Town STONEHAM prepared for: Resilient Mystic Collaborative Mystic Watershed-Wide Analysis and MVP Grant Landuse Overview Map Per Town STONEHAM, MA	FIGURE 12 of 17
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**LEGEND**

- Roads (per MassDOT)
- Town Boundary
- Adjacent Town Boundary
- Upper Mystic River Watershed
- Water
- Public Open Space (per MassGIS)**
- Municipality-Owned

**Equal-weight Score**

- Not Suitable
- Lowest Score
- Low
- Medium
- High
- Highest Score

**Scenarios In Top 20 (Type)**

- One Weighted Method
- Two Weighted Methods
- Three Weighted Methods
- Four Weighted Methods
- Five Weighted Methods

**Note:**

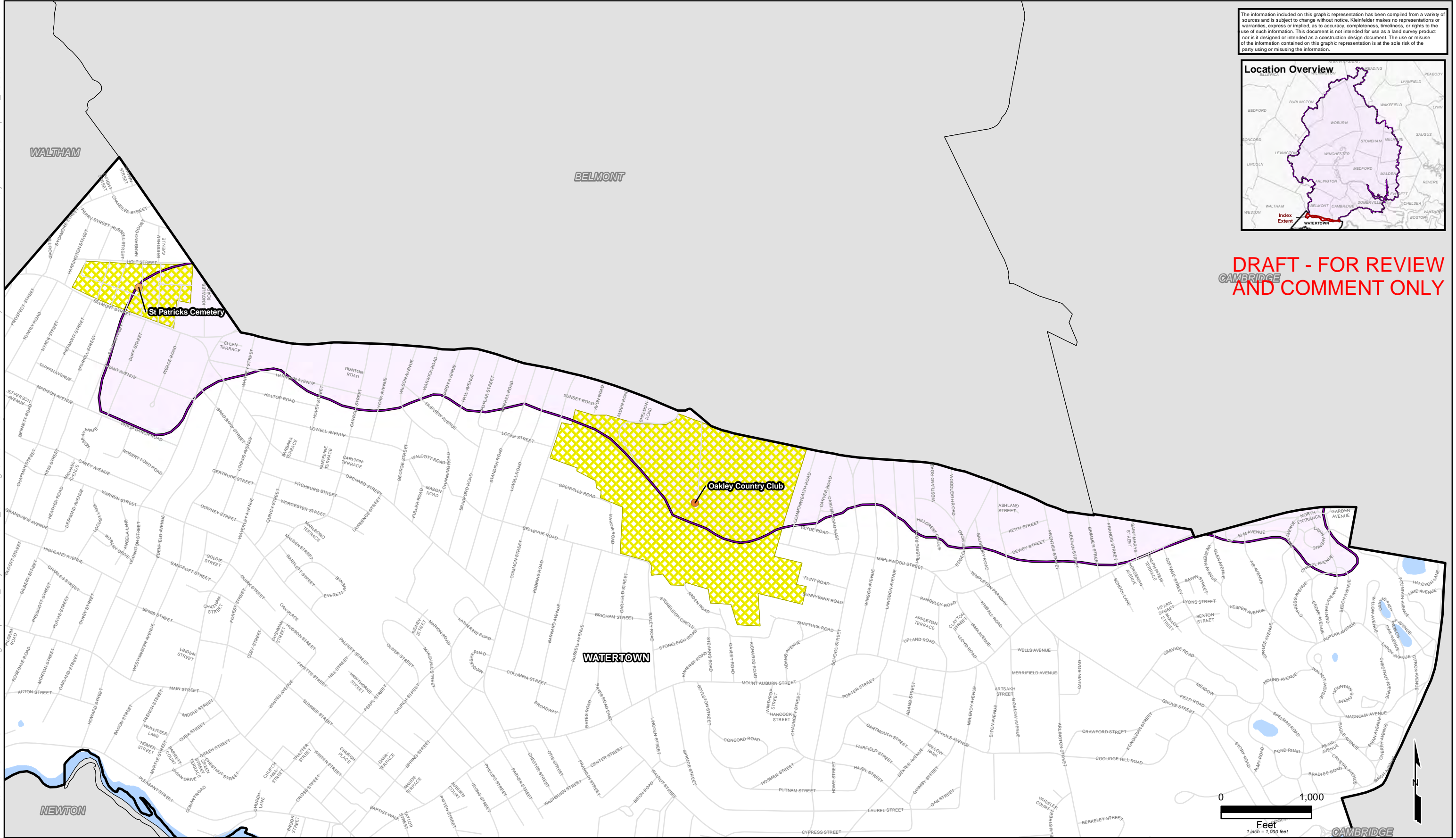
LandUse Types reflect latest version of municipality's Assessor's database as made available via MassGIS; refer to annotated LU Codebook metadata for categorization, updated June 2016)



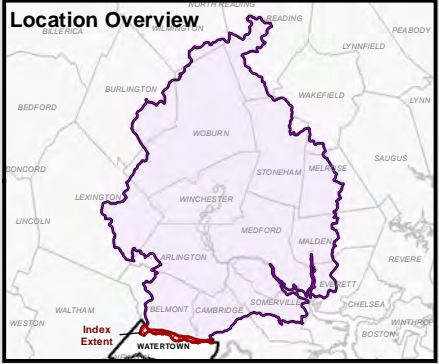
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CREATED:	1/20/2020
CREATED BY:	KJohnson
CHECKED BY:	CP/KEJ
FILE NAME:	GIS Mapbook_20200120.mxd

Opportunities By Town
WAKEFIELD
prepared for: Resilient Mystic Collaborative
Mystic Watershed-Wide Analysis and MVP Grant
Landuse Overview Map
Per Town
WAKEFIELD, MA





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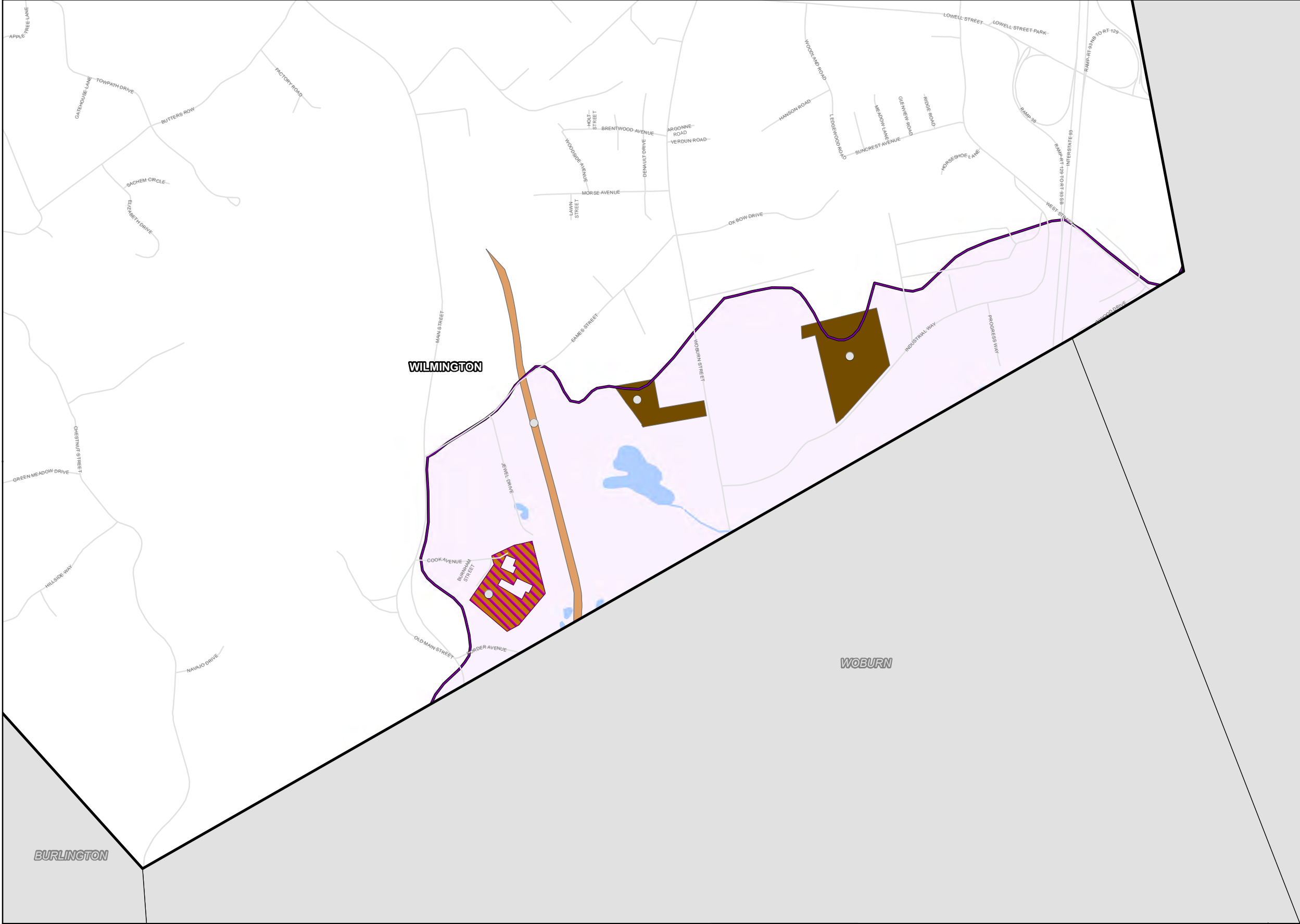


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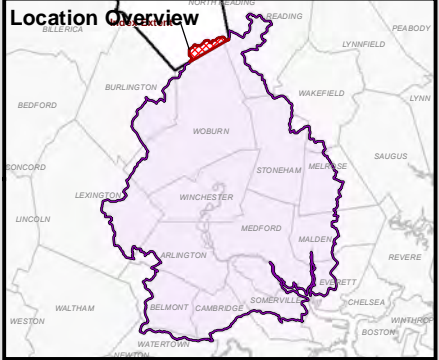
<b>LEGEND</b> Roads (per MassDOT) Town Boundary Adjacent Town Boundary Upper Mystic River Watershed Water <b>Public Open Space (per MassGIS)</b> Other		<b>Equal-weight Score</b> Not Suitable Lowest Score Low Medium High Highest Score	<b>Scenarios In Top 20 (Type)</b> One Weighted Method Two Weighted Methods Three Weighted Methods Four Weighted Methods Five Weighted Methods	<b>Note:</b> LandUse Types reflect latest version of municipality's Assessor's database as made available via MassGIS; refer to annotated LU Codebook metadata for categorization, updated June 2016)	 Bright People. Right Solutions. www.kleinfelder.com	PROJECT NO. 20201034.004A CREATED: 1/20/2020 CREATED BY: KJohnson CHECKED BY: CP/KEJ FILE NAME: GIS Mapbook_20200120.mxd	Opportunities By Town <b>WATERTOWN</b> prepared for: Resilient Mystic Collaborative Mystic Watershed-Wide Analysis and MVP Grant Landuse Overview Map Per Town WATERTOWN, MA	FIGURE <b>14</b> of 17
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Date: 1/20/2020 User: KJohnson Path: \\azgis\storp01\GIS\_Projects\Client\MA\_Cambridge\20201034.004A- Watershed-Wide Analysis and MVP Grant\GIS\WDX\kij scratch\GIS Mapbook\_20200120.mxd



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READING

WOBURN

BURLINGTON

**LEGEND**

- Roads (per MassDOT)
- Town Boundary
- Adjacent Town Boundary
- Upper Mystic River Watershed
- Water

**Landuse Type (per Assessors' Data)**

- Vacant Use, Municipal or Conservation
- Vacant Use, Quasi-Public
- Vacant Use, Private

**Public Open Space (per MassGIS)**

- Municipality-Owned

**Equal-weight Score**

- Not Suitable
- Lowest Score
- Low
- Medium
- High
- Highest Score

**Scenarios In Top 20 (Type)**

- One Weighted Method
- Two Weighted Methods
- Three Weighted Methods
- Four Weighted Methods
- Five Weighted Methods

**Note:**  
*LandUse Types reflect latest version of municipality's Assessor's database as made available via MassGIS; refer to annotated LU Codebook metadata for categorization, updated June 2016)*

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FILE NAME:	GIS Mapbook_20200120.mxd

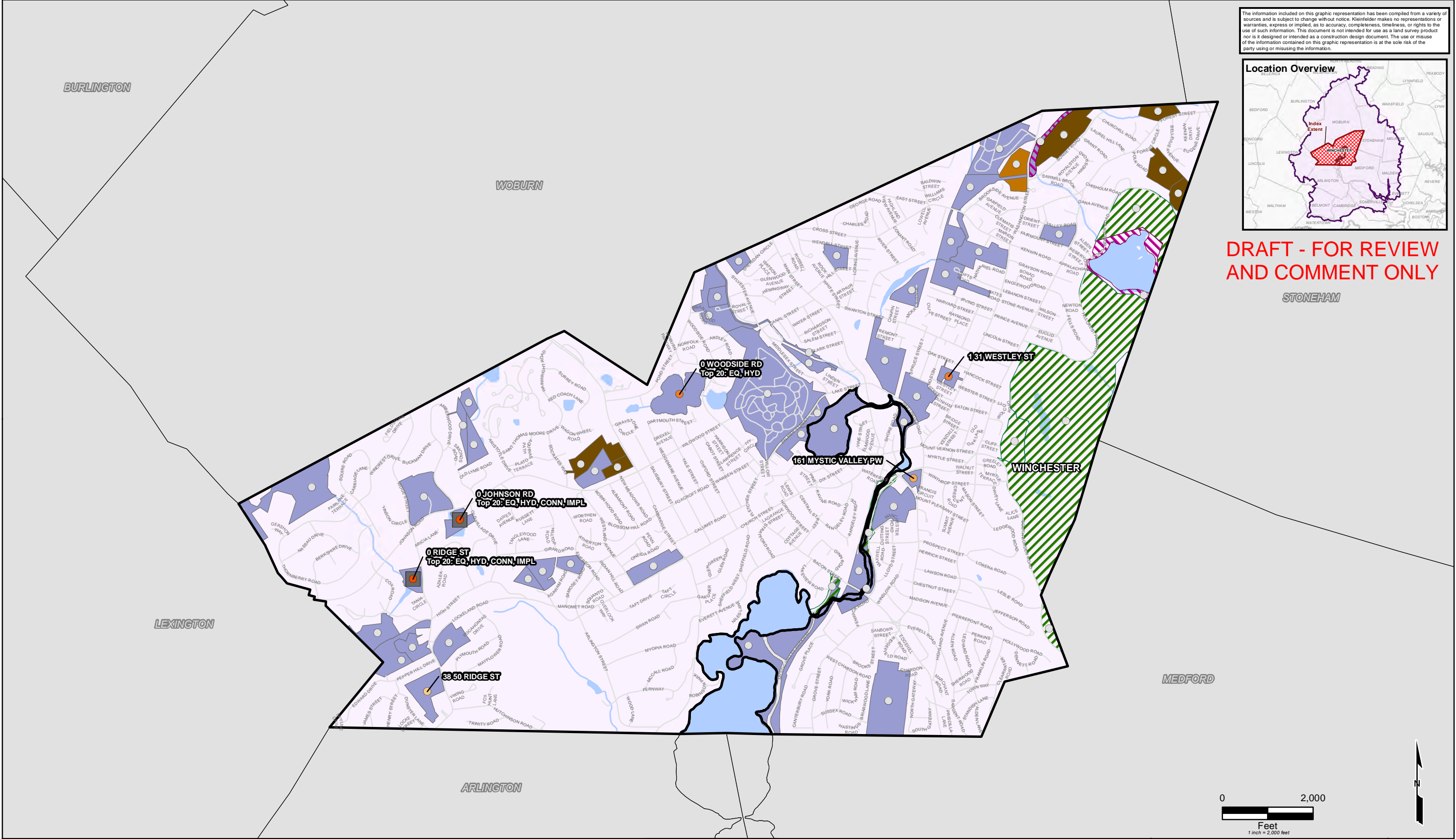
Opportunities By Town

**WILMINGTON**

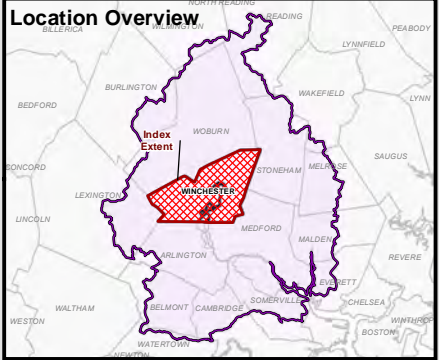
prepared for: **Resilient Mystic Collaborative**

Mystic Watershed-Wide Analysis and MVP Grant  
Landuse Overview Map  
Per Town  
WILMINGTON, MA





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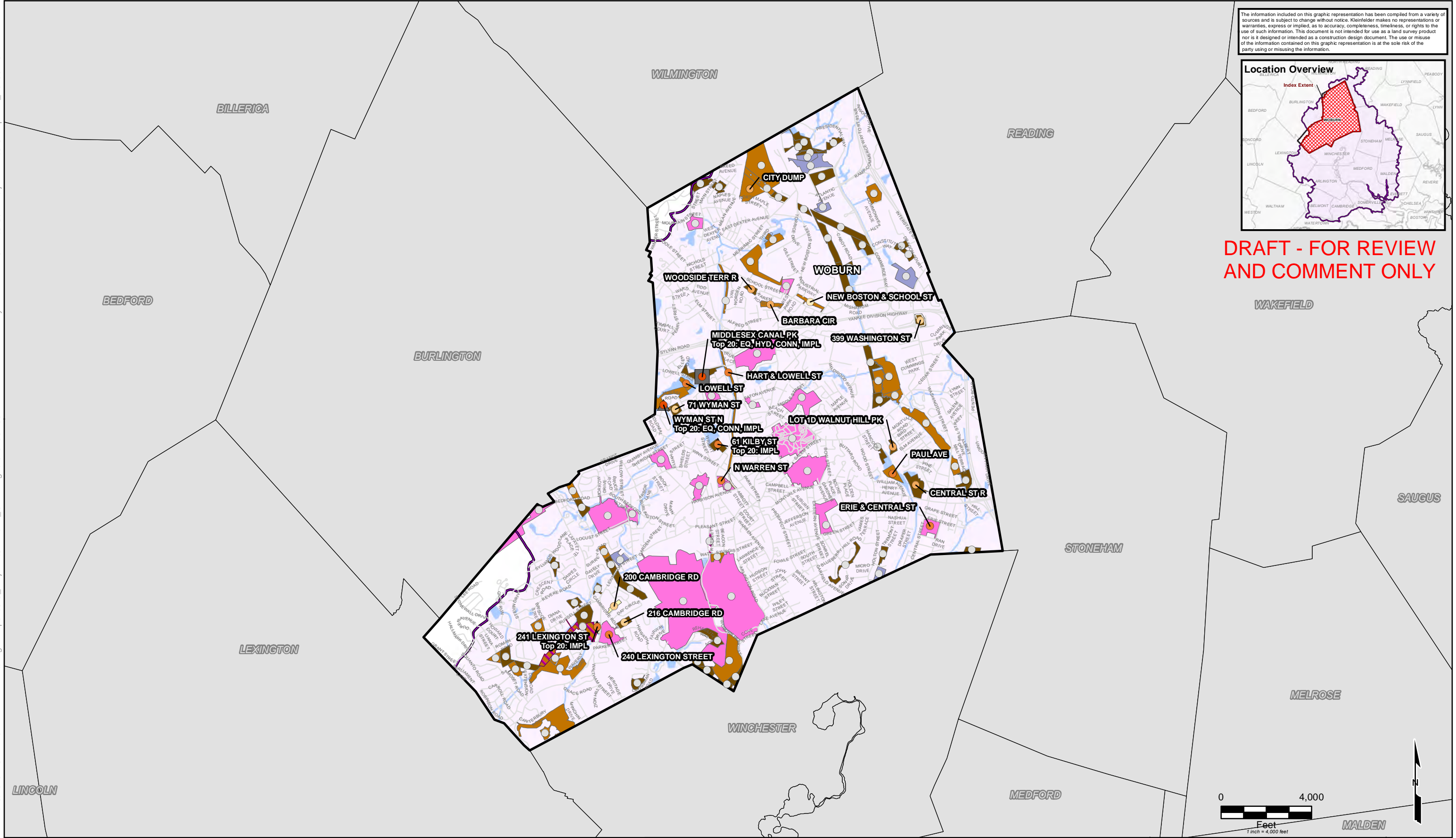


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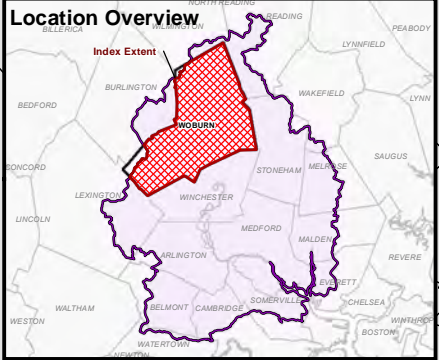
STONEHAM

<b>LEGEND</b> <div><div><div>Roads (per MassDOT)</div><div>Town Boundary</div><div>Adjacent Town Boundary</div><div>Upper Mystic River Watershed</div><div>Water</div></div><div><div><b>Landuse Type (per Assessors' Data)</b></div><div>State of Federal Land</div><div>Vacant Use, Municipal or Conservation</div><div>Vacant Use, Private</div><div><b>Public Open Space (per MassGIS)</b></div><div>DCR</div><div>Municipality-Owned</div></div><div><div><b>Equal-weight Score</b></div><div>Not Suitable</div><div>Lowest Score</div><div>Low</div><div>Medium</div><div>High</div><div>Highest Score</div></div><div><div><b>Scenarios In Top 20 (Type)</b></div><div>One Weighted Method</div><div>Two Weighted Methods</div><div>Three Weighted Methods</div><div>Four Weighted Methods</div><div>Five Weighted Methods</div></div></div>	<b>Note:</b> <p>LandUse Types reflect latest version of municipality's Assessor's database as made available via MassGIS; refer to annotated LU Codebook metadata for categorization, updated June 2016)</p>	<div>Bright People. Right Solutions.</div> <div>www.kleinfelder.com</div>	PROJECT NO. 20201034.004A CREATED: 1/20/2020 CREATED BY: KJohnson CHECKED BY: CP/KEJ FILE NAME: GIS Mapbook_20200120.mxd	<b>Opportunities By Town</b> <b>WINCHESTER</b> prepared for: Resilient Mystic Collaborative Mystic Watershed-Wide Analysis and MVP Grant Landuse Overview Map Per Town WINCHESTER, MA	<b>FIGURE</b> <b>16</b> of 17
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<b>LEGEND</b> Roads (per MassDOT) Town Boundary Adjacent Town Boundary Upper Mystic River Watershed Water	<b>Landuse Type (per Assessors' Data)</b> Municipality-Owned State of Federal Land Vacant Use, Municipal or Conservation Vacant Use, Private Unknown <b>Public Open Space (per MassGIS)</b> Municipality-Owned	<b>Equal-weight Score</b> Not Suitable Lowest Score Low Medium High Highest Score	<b>Scenarios In Top 20 (Type)</b> One Weighted Method Two Weighted Methods Three Weighted Methods Four Weighted Methods Five Weighted Methods	<b>Note:</b> LandUse Types reflect latest version of municipality's Assessor's database as made available via MassGIS; refer to annotated LU Codebook metadata for categorization, updated June 2016)	 Bright People. Right Solutions. www.kleinfielder.com	PROJECT NO. 20201034.004A CREATED: 1/20/2020 CREATED BY: KJohnson CHECKED BY: CP/KEJ FILE NAME: GIS Mapbook_20200120.mxd	Opportunities By Town WOBURN prepared for: Resilient Mystic Collaborative Mystic Watershed-Wide Analysis and MVP Grant Landuse Overview Map Per Town WOBURN, MA	FIGURE 17 of 17
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