

STANDARD OPERATING PROCEDURE

SNOW REMOVAL AND DE-ICING

1. Preparation

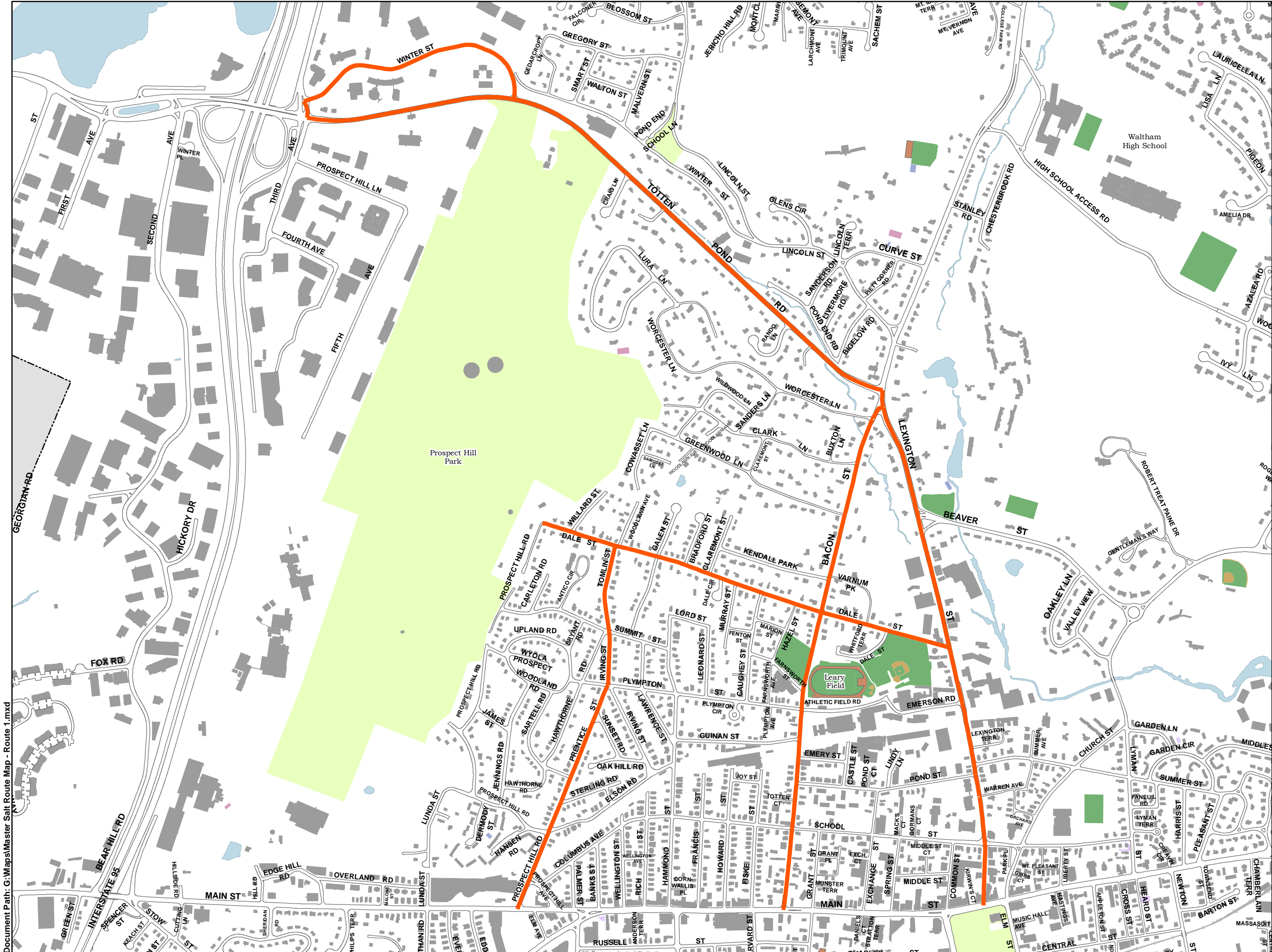
- a. Store de-icing material under a covered storage area or in an area where water coming off the de-icing materials is collected and delivered to the sanitary sewer or reused as salt brine.
- b. Slope loading area away from storm drain inlets
- c. Design drainage from loading area to collect runoff before entering storm water system
- d. Wash out vehicles (if necessary) in approved washout area before preparing them for snow removal.
- e. Calibrate spreaders to minimize amount of de-icing material used and still be effective
- f. Spill cleanup kits in case of hydraulic line rupture or other spills are available at the City Yard.
- g. Train employees in spill cleanup procedures and proper handling and storage of de-icing materials

2. Process

- a. Load material into trucks carefully to minimize spillage
- b. Periodically dry sweep loading area to reduce the amount of de-icing materials exposed to runoff
- c. Distribute the minimum amount of de-icing material to be effective on roads
- d. Do not allow spreaders to idle while distributing de-icing materials.
- e. Park trucks loaded with de-icing material inside when possible

3. Cleanup

- a. Sweep up all spilled de-icing material around loading area
- b. Clean out trucks after snow removal duty in approved washout area
- c. Provide maintenance for vehicles in covered area
- d. If sand is used in de-icing operations, sweep up residual sand from streets when weather permits




MASTER SALT ROUTES

ROUTE 1

CITY OF WALTHAM

MASSACHUSETTS




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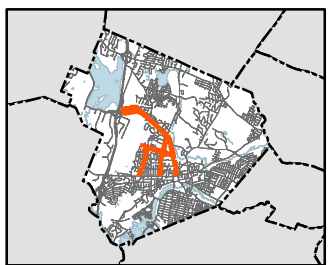
DATA SOURCE:
The digital planimetric base map data was developed by Chas H Sells, Inc. and is based on a spring 2001 1"= 40' scale color orthophotographs. The parcel data and are current as of January 2013. Map prepared by Eric Rizzo.

Legend

Master Salt Route	Other
Route 1	Athletic Field
Rail Lines	Track/Other Surface
Edge of Pavement	Playground
Building Footprints	Spray Park
Unpaved Roads	Tennis Court
Water	Cemetery
Basketball Court	Park

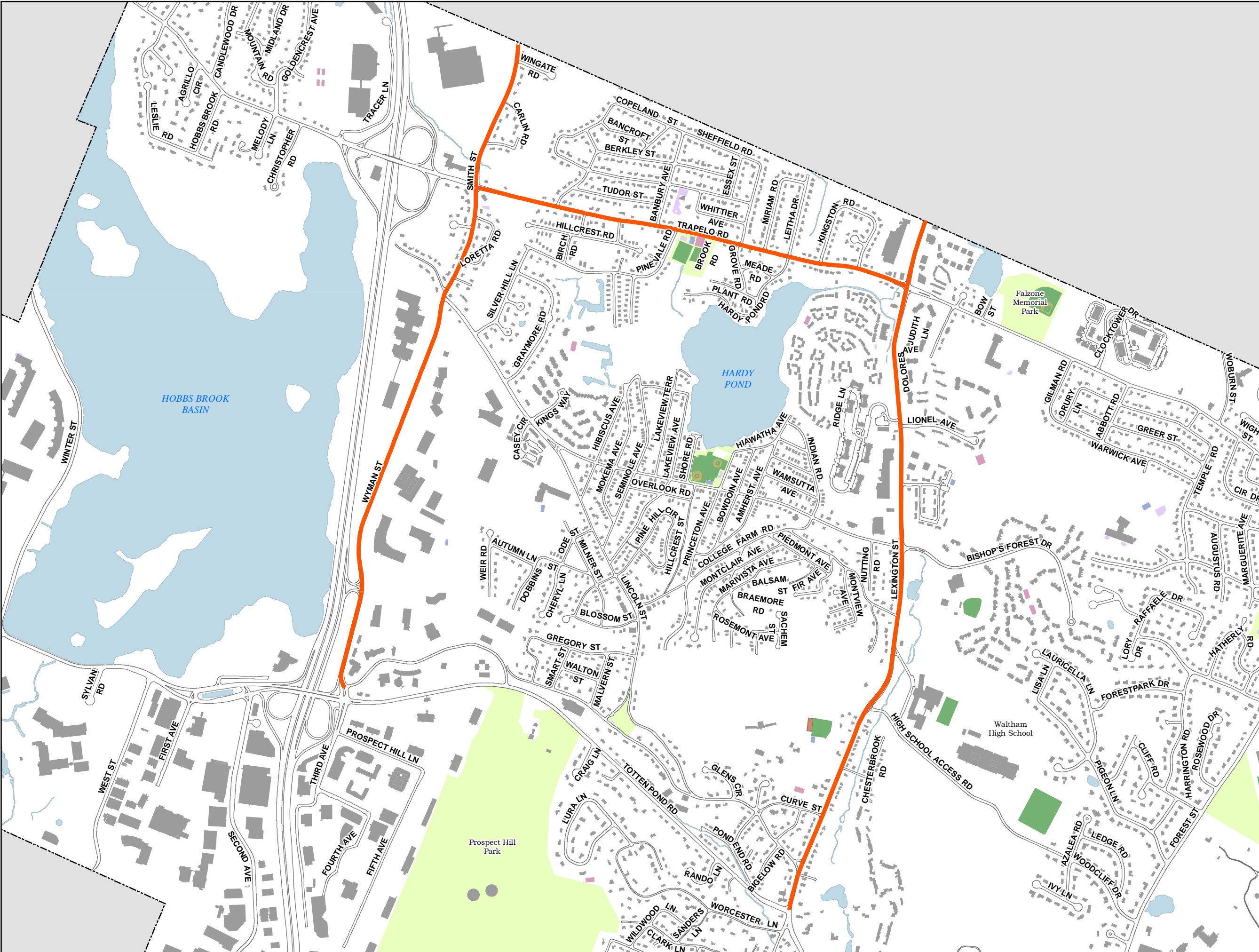


0 215 430 860 Feet



Route: 1

Date: 11/13/2013




MASTER SALT ROUTES

ROUTE 2

CITY OF WALTHAM


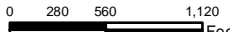
MASSACHUSETTS

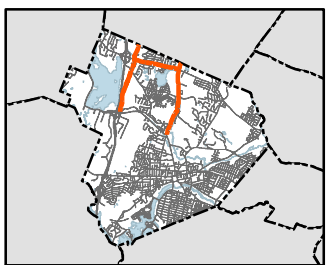


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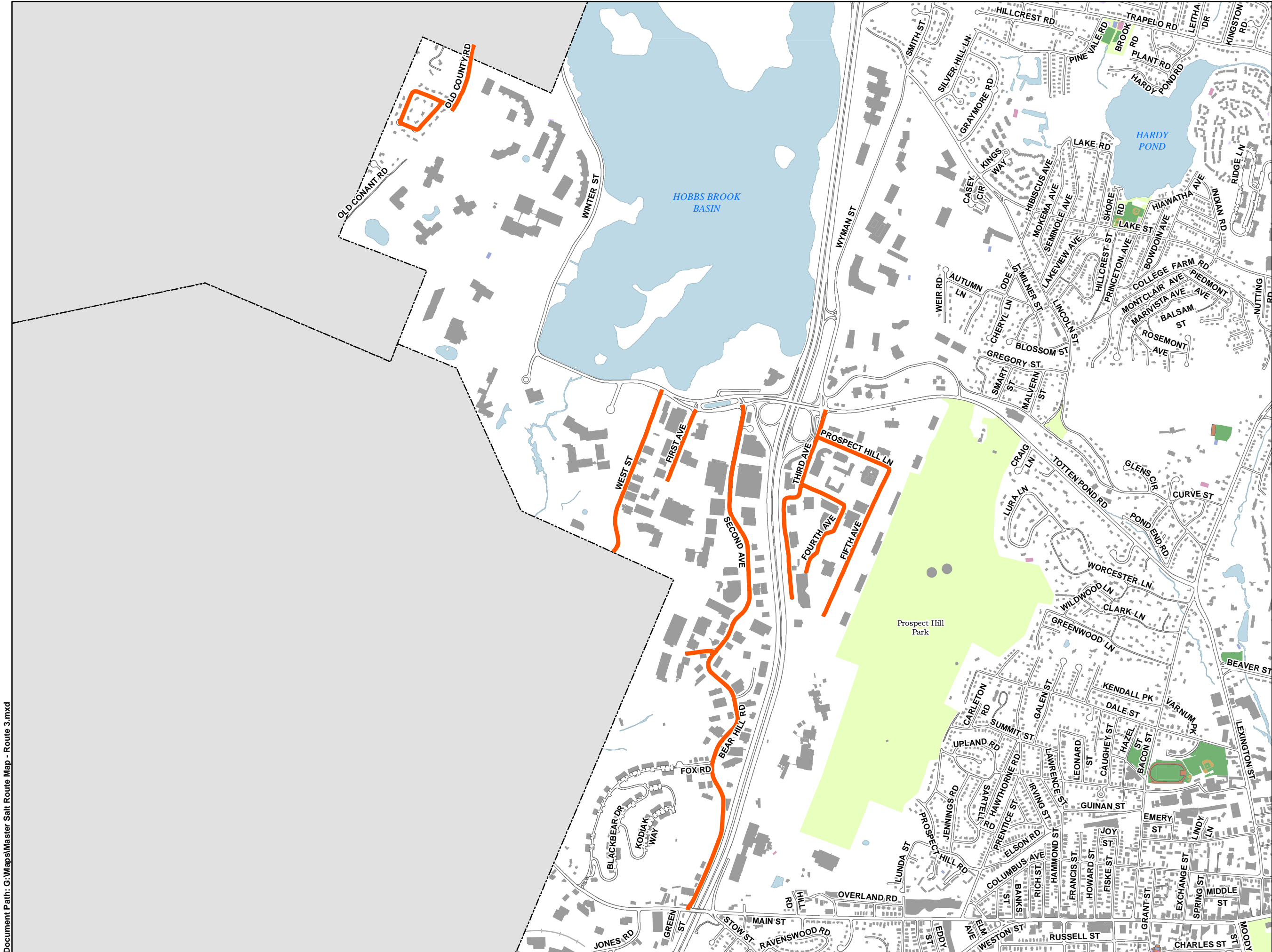
Legend	
Master Salt Route	Athletic Field
Route 2	Track/Other Surface
Rail Lines	Playground
Edge of Pavement	Spray Park
Building Footprints	Tennis Court
Unpaved Roads	Cemetery
Water	Park
Basketball Court	



Route: 2

Date: 11/13/2013




MASTER SALT ROUTES

ROUTE 3

CITY OF WALTHAM

MASSACHUSETTS

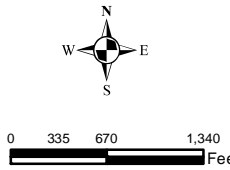


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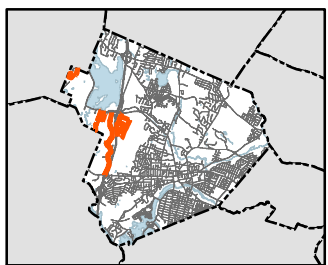
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Legend

Master Salt Route	
Route 3	Other
Rail Lines	Athletic Field
Edge of Pavement	Track/Other Surface
Building Footprints	Playground
Unpaved Roads	Spray Park
Water	Tennis Court
Basketball Court	Cemetery
	Park

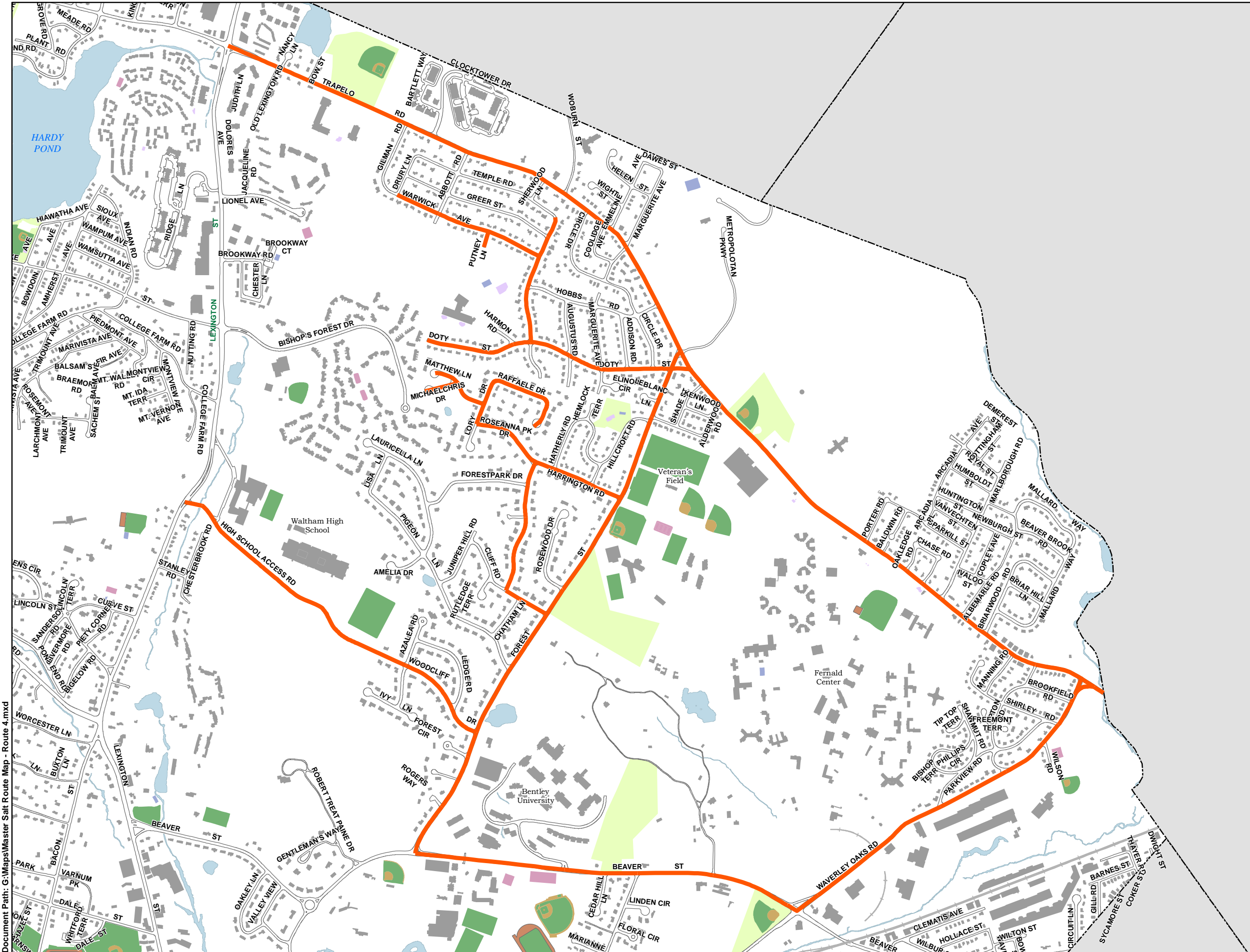


0 335 670 1,340 Feet



Route: 3

Date: 11/13/2013



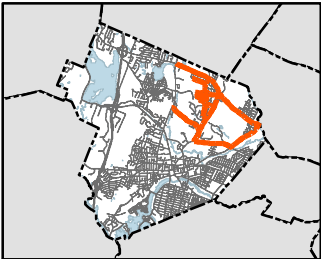
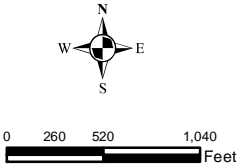
MASTER SALT ROUTES
ROUTE 4
CITY OF WALTHAM
MASSACHUSETTS



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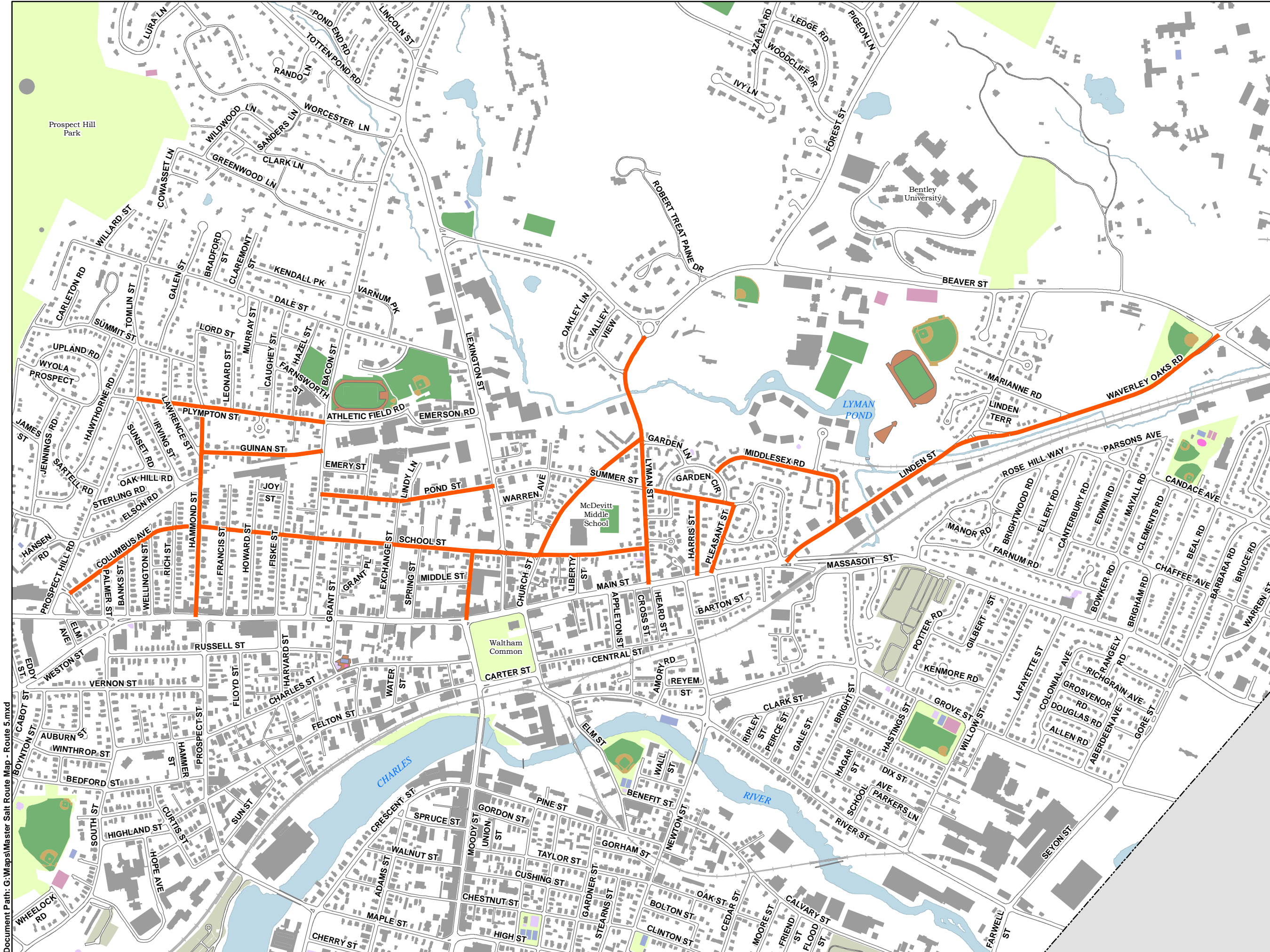
Legend	
Master Salt Route	Other
Rail Lines	Athletic Field
Edge of Pavement	Track/Other Surface
Building Footprints	Playground
Unpaved Roads	Spray Park
Water	Tennis Court
Basketball Court	Cemetery
	Park



Route: 4

Date: 11/13/2013

Document Path: G:\Maps\Master Salt Route Map - Route 5.mxd




MASTER SALT ROUTES

ROUTE 5

CITY OF WALTHAM

MASSACHUSETTS


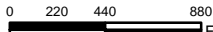


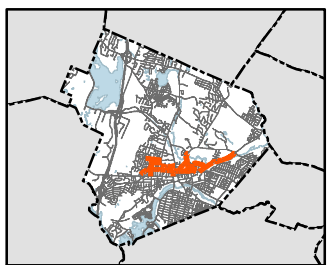
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Legend

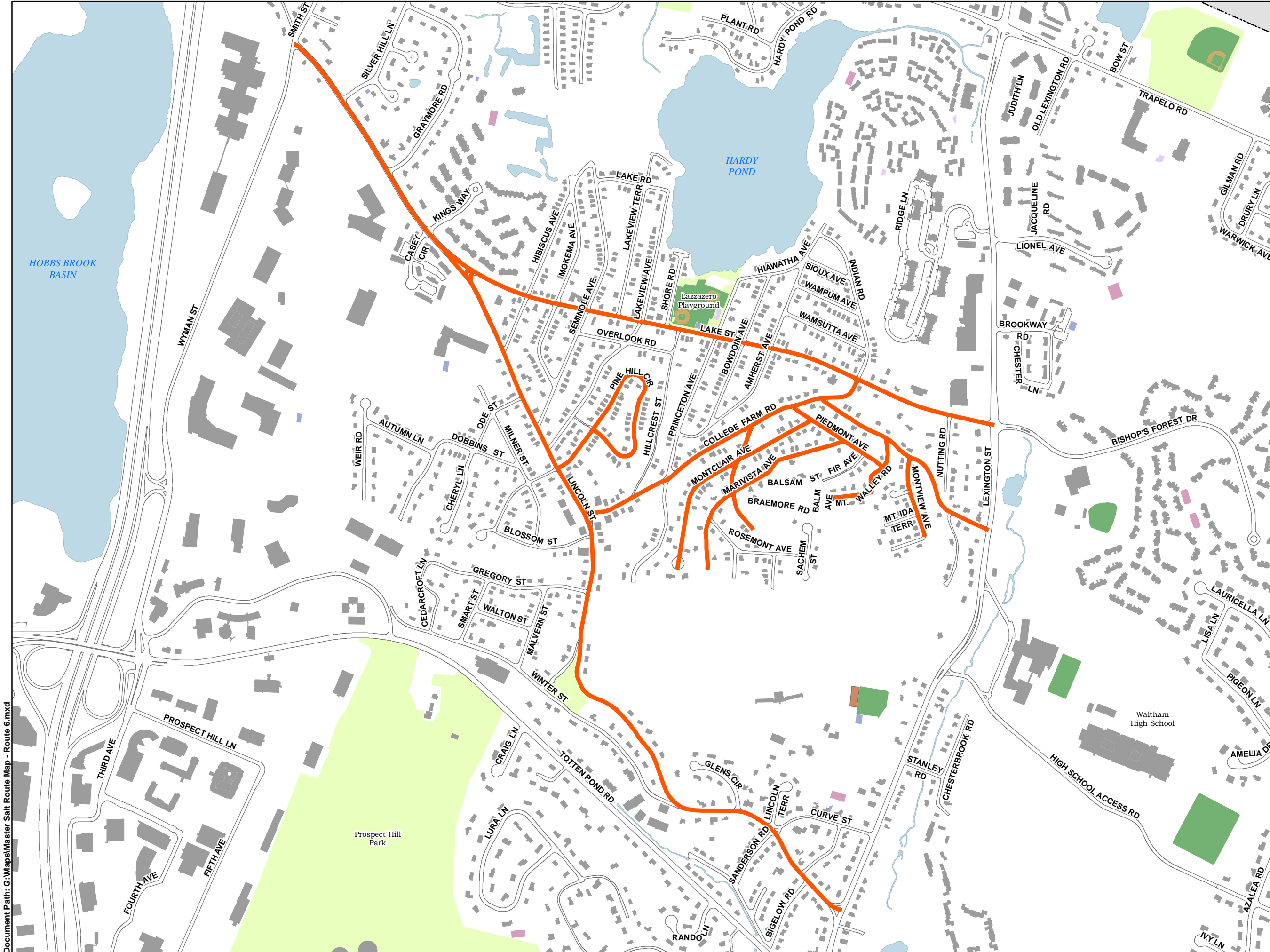
Master Salt Route	
Route 5	Other
Rail Lines	Athletic Field
Edge of Pavement	Track/Other Surface
Building Footprints	Playground
Unpaved Roads	Spray Park
Water	Tennis Court
Basketball Court	Cemetery
	Park



Route: 5

Date: 11/13/2013




MASTER SALT ROUTES

ROUTE 6

CITY OF WALTHAM

MASSACHUSETTS


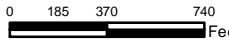


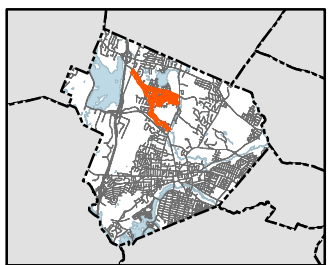
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Legend

Master Salt Route	Other
ROUTE 6	Athletic Field
Rail Lines	Track/Other Surface
Edge of Pavement	Playground
Building Footprints	Spray Park
Unpaved Roads	Tennis Court
Water	Cemetery
Basketball Court	Park

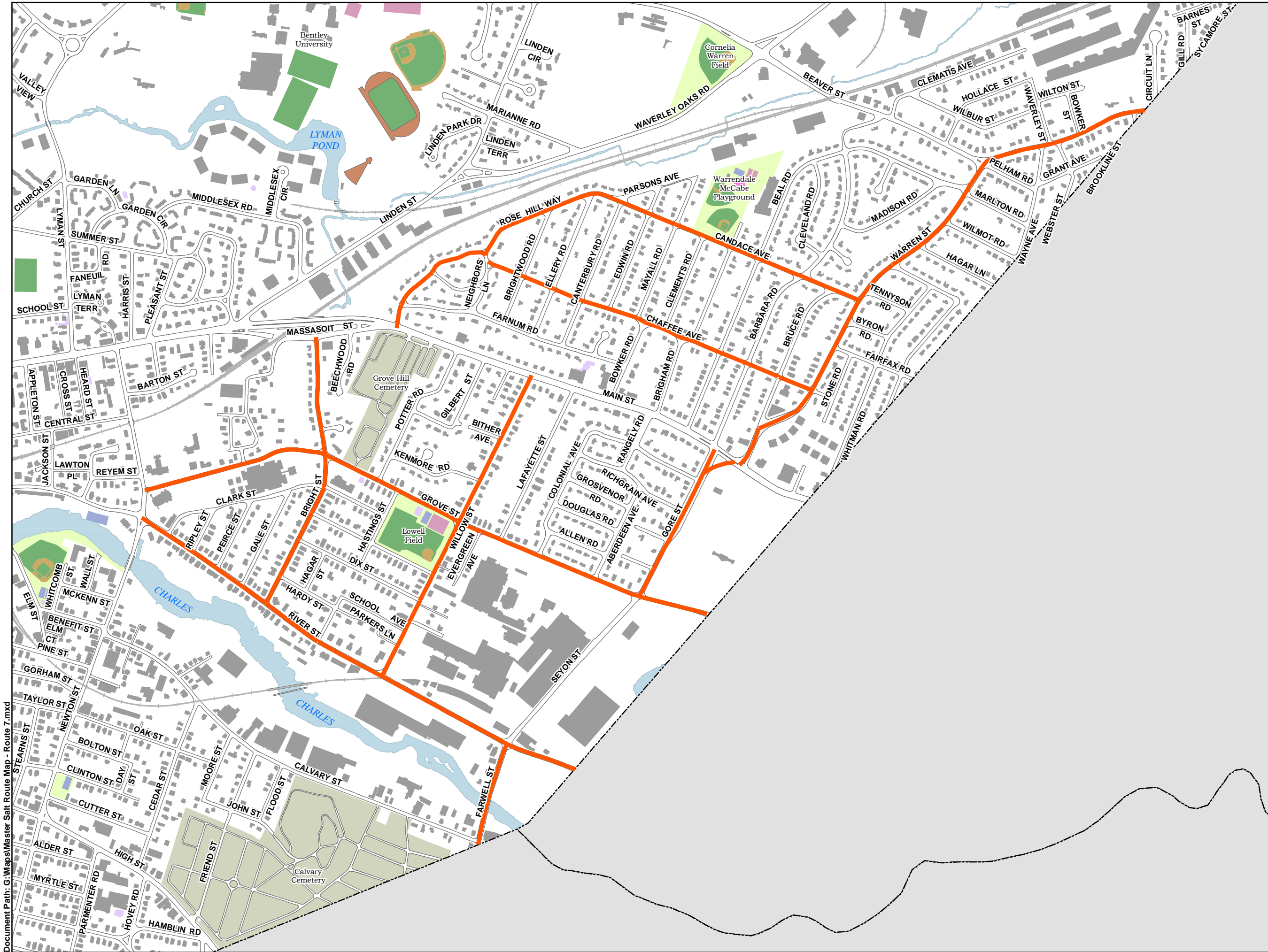





Route: 6

Date: 11/13/2013

Document Path: G:\Maps\Master Salt Route Map - Route 7.mxd

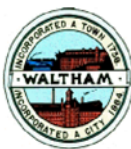


MASTER SALT ROUTES

ROUTE 7

CITY OF WALTHAM

MASSACHUSETTS


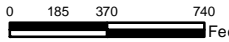


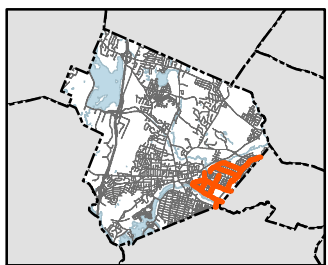
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Legend

Master Salt Route	Other
Route 7	Athletic Field
Rail Lines	Track/Other Surface
Edge of Pavement	Playground
Building Footprints	Spray Park
Unpaved Roads	Tennis Court
Water	Cemetery
Basketball Court	Park



Route: 7

Date: 11/13/2013

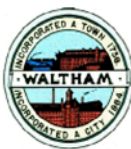


MASTER SALT ROUTES

ROUTE 8

CITY OF WALTHAM

MASSACHUSETTS


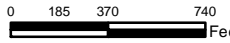


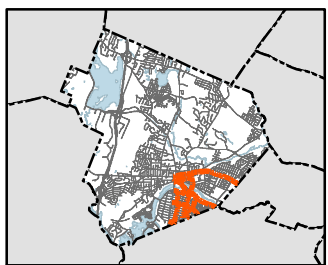
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Legend

Master Salt Route	Other
Route 8	Athletic Field
Rail Lines	Track/Other Surface
Edge of Pavement	Playground
Building Footprints	Spray Park
Unpaved Roads	Tennis Court
Water	Cemetery
Basketball Court	Park



Route: 8

Date: 11/13/2013




MASTER SALT ROUTES

ROUTE 9

CITY OF WALTHAM

MASSACHUSETTS


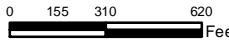


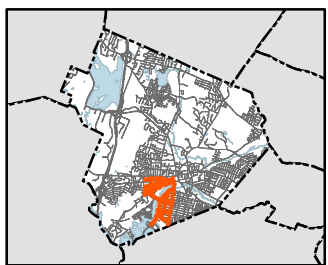
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Legend

Master Salt Route	Other
Route 9	Athletic Field
Rail Lines	Track/Other Surface
Edge of Pavement	Playground
Building Footprints	Spray Park
Unpaved Roads	Tennis Court
Water	Cemetery
Basketball Court	Park



Route: 9

Date: 11/13/2013




MASTER SALT ROUTES

ROUTE 10

CITY OF WALTHAM

MASSACHUSETTS


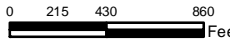


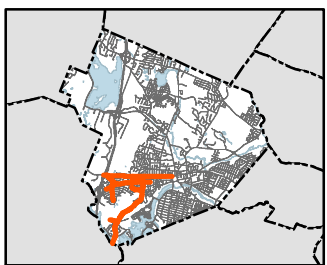
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Legend

Master Salt Route	Other
Route 10	Athletic Field
Rail Lines	Track/Other Surface
Edge of Pavement	Playground
Building Footprints	Spray Park
Unpaved Roads	Tennis Court
Water	Cemetery
Basketball Court	Park



Route: 10

Date: 11/13/2013

MASTER SALT ROUTES
ROUTE 11
CITY OF WALTHAM
MASSACHUSETTS



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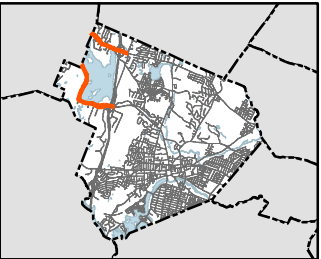
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Legend

Master Salt Route	Other
Route 11	Athletic Field
Rail Lines	Track/Other Surface
Edge of Pavement	Playground
Building Footprints	Spray Park
Unpaved Roads	Tennis Court
Water	Cemetery
Basketball Court	Park



0 230 460 920
Feet



Route: 11

Date: 11/13/2013