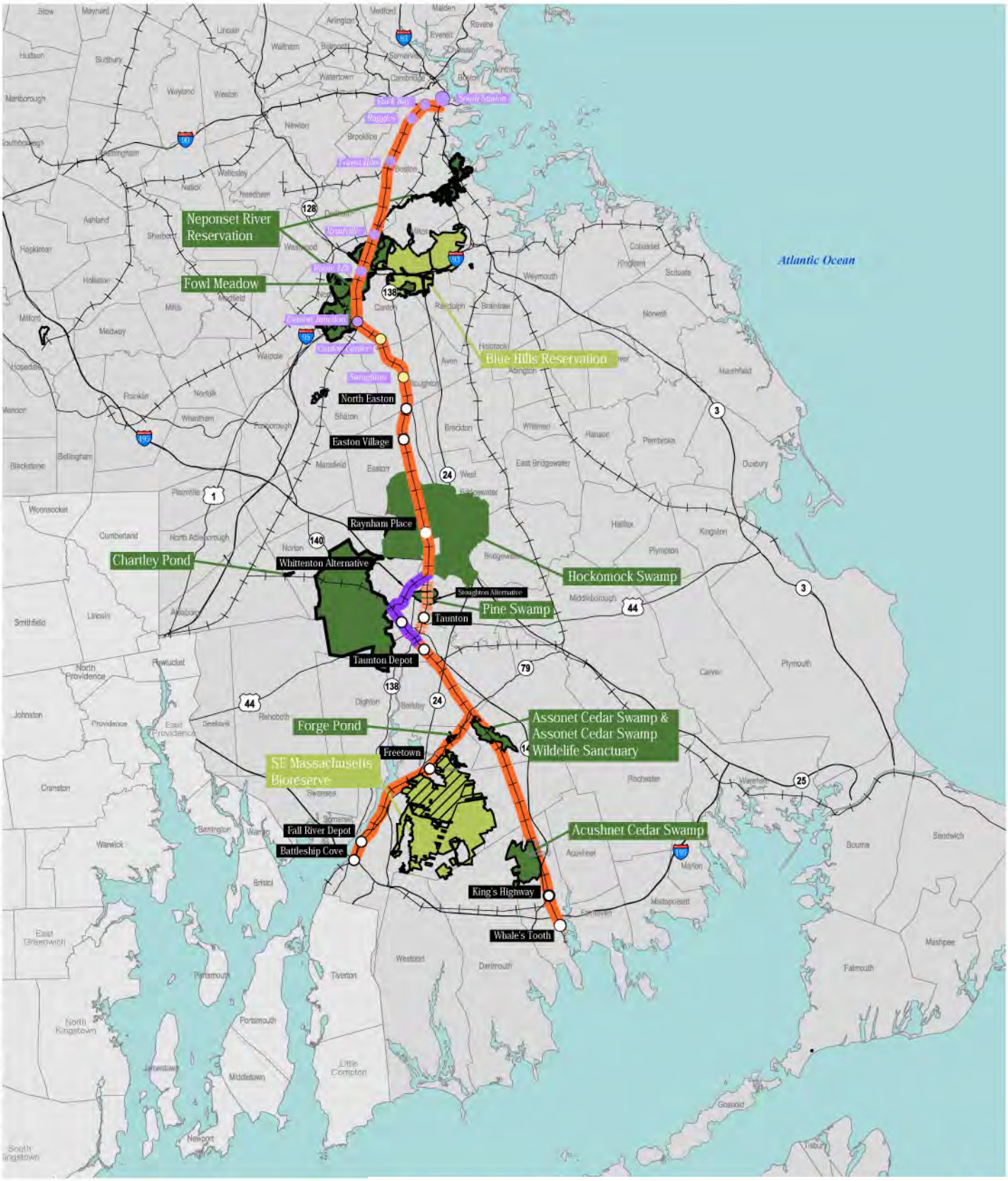

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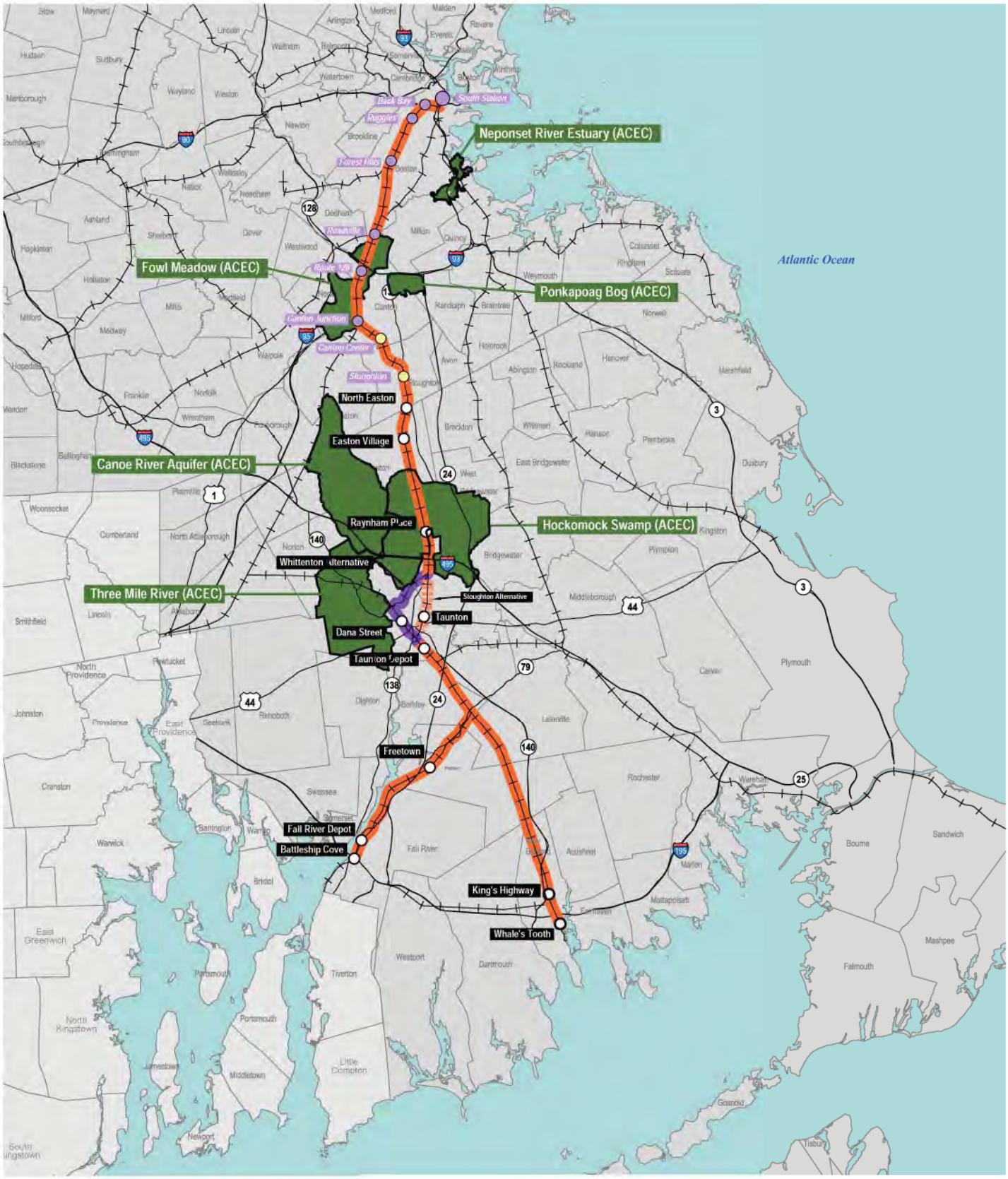
Legend

- Whittenton Alternative
- Stoughton Alternative
- Existing Stations
- Proposed Stations
- Existing Stations to be Reconstructed
- Major Wetland Areas
- Freetown-Fall River State Forest
- Major Upland Areas

0 4 8 Miles

Figure 4.15-1

Major Wetland and Upland Natural Areas



Legend

- Whittenton Alternative
- Stoughton Alternative
- Existing Stations
- Proposed Stations
- Existing Stations to be Reconstructed
- Areas of Critical Environmental Concern (ACEC)

0 4 8 Miles

Figure 4.15-2

Areas of Critical Environmental Concern (ACECs)

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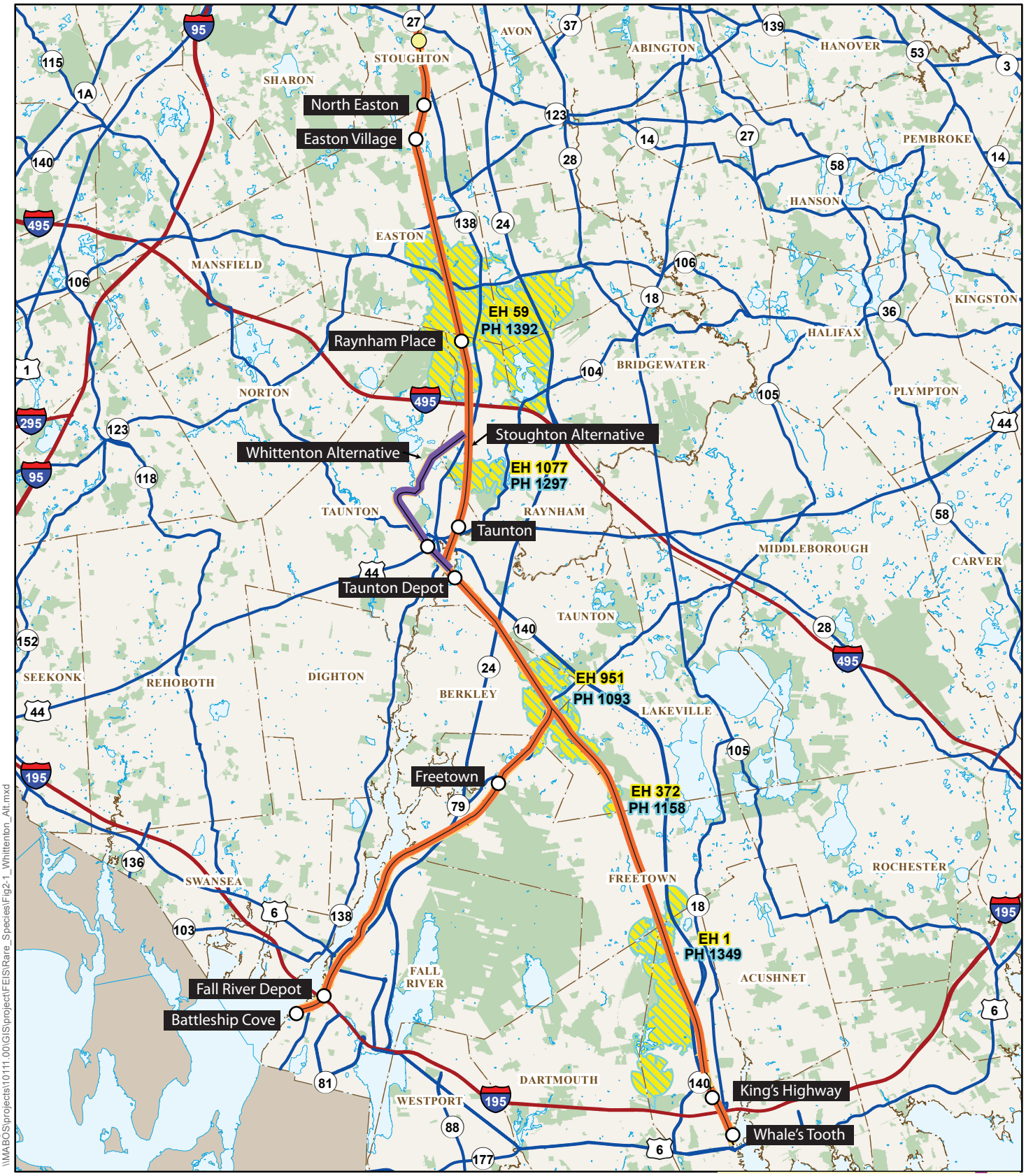


Legend

- Whittenton Alternative
- Stoughton Alternative
- Existing Stations
- Proposed Stations
- Existing Stations to be Reconstructed

Rare Species

- NHESP Priority Habiat of Rare Species
- NHESP Priority Habiat of Rare Species

0 2 4 Miles

Figure 4.15-3

NHESP Priority and Estimated Habitat of Rare Species

Printing Date: 7/1/2009
File: \\MABOS\projects\10111.00\GIS\project\Phase2\Tech\Reports\TE\EC\TE_EC_NewBedford_pg2.mxd

Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignment
- Limit of Work for Proposed Station/ Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Protected Open Space
- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife
- Open Water
- Impacted NHESP Habitats
- Area of Critical Environmental Concern (ACEC)

* Traction power stations are only required for electric rail alternative

Index Map

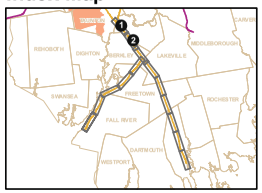
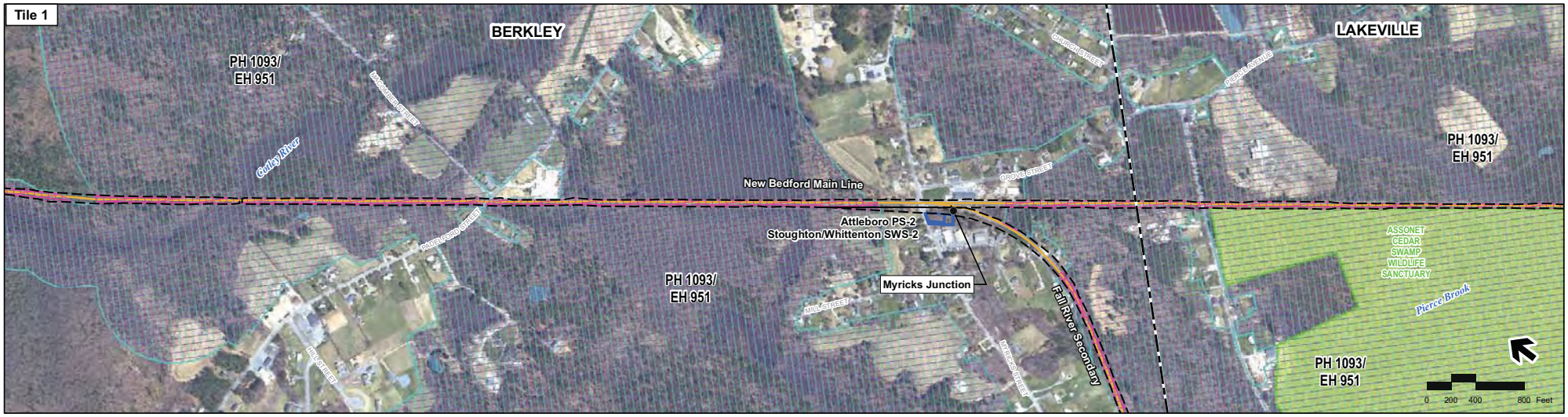


Figure 4.15-4

All Rail Alternatives
New Bedford Mainline
(Sheet 1 of 5)

Threatened & Endangered Species



Printing Date: 7/12/09
File: \\nabo.sinc.rectsi\10111.00\GIS\project\Phase2\TechReports\TE\ECTE_EC_NewBedford_pg2.mxd

Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignment
- Limit of Work for Proposed Station/ Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Protected Open Space
- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife
- Open Water
- Impacted NHESP Habitats
- Area of Critical Environmental Concern (ACEC)

* Traction power stations are only required for electric rail alternative

Index Map

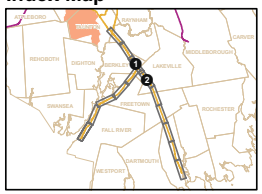


Figure 4.15-5

All Rail Alternatives
New Bedford Mainline
(Sheet 2 of 5)

Threatened & Endangered Species

Printing Date: 6/25/2009
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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignment
- Limit of Work for Proposed Station/ Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Protected Open Space
- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife
- Open Water
- Impacted NHESP Habitats
- Area of Critical Environmental Concern (ACEC)

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Index Map

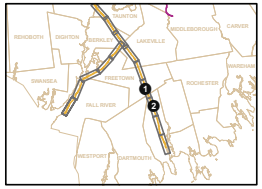

Figure 4.15-6

All Rail Alternatives
New Bedford Mainline
(Sheet 3 or 5)

Threatened & Endangered Species

Printing Date: 7/12/09
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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignment
- Limit of Work for Proposed Station/ Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Protected Open Space
- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife
- Open Water
- Impacted NHESP Habitats
- Area of Critical Environmental Concern (ACEC)

* Traction power stations are only required for electric rail alternative

Index Map

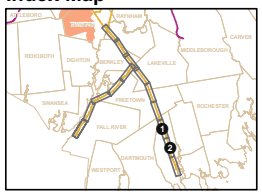
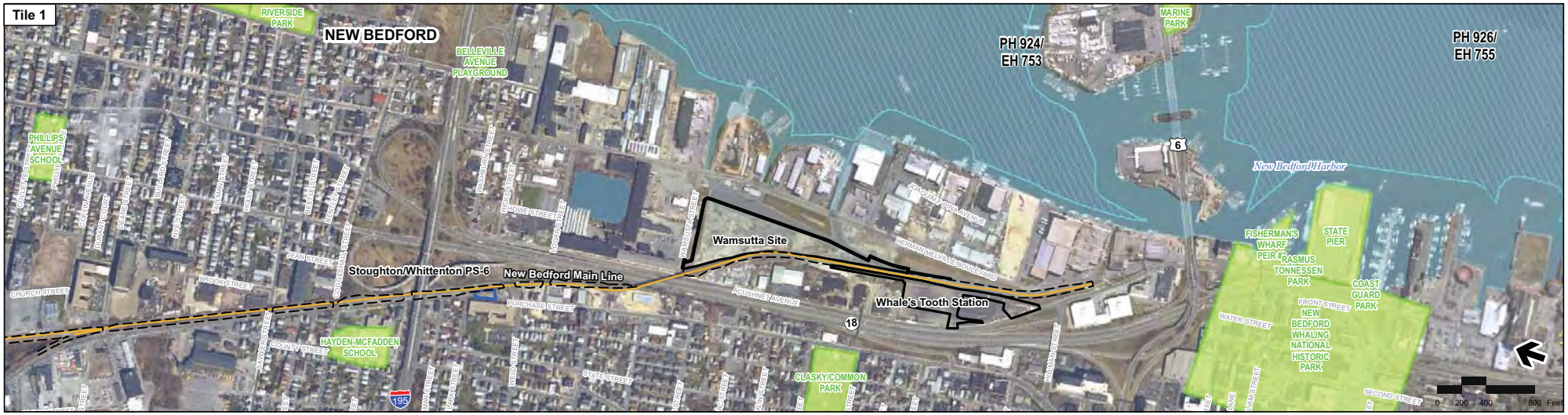


Figure 4.15-7

All Rail Alternatives
New Bedford Mainline
(Sheet 4 of 5)

Threatened & Endangered Species



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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignment
- Limit of Work for Proposed Station/ Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Protected Open Space
- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife
- Open Water
- Impacted NHESP Habitats
- Area of Critical Environmental Concern (ACEC)

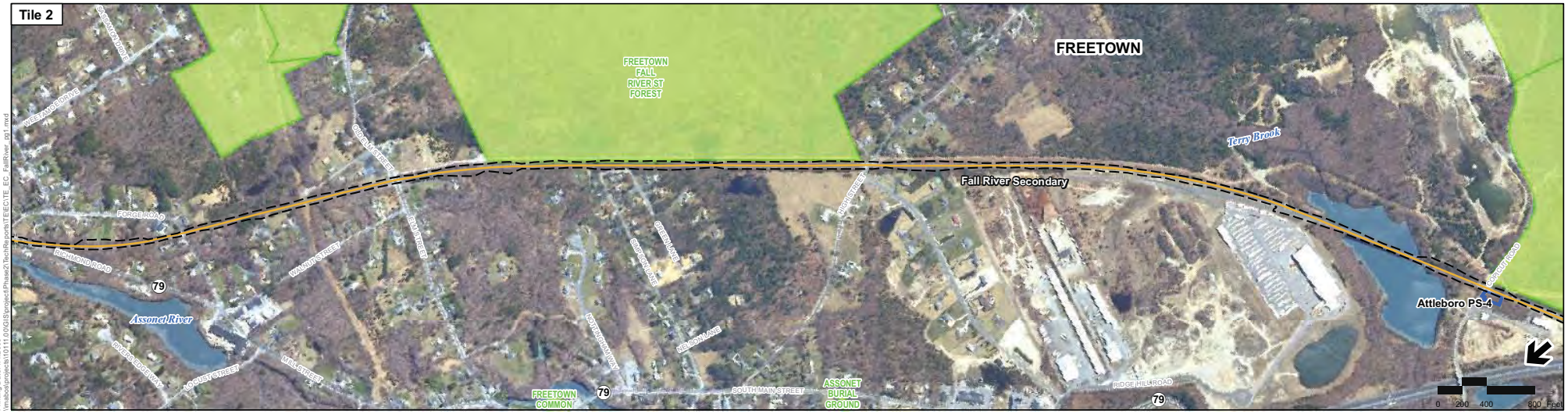
* Traction power stations are only required for electric rail alternative

Index Map

Figure 4.15-8

All Rail Alternatives
New Bedford Mainline
(Sheet 5 of 5)

Threatened & Endangered Species



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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignment
- Limit of Work for Proposed Station/ Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Protected Open Space
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- NHESP Estimated Habitats of Rare Wildlife
- Open Water
- Impacted NHESP Habitats
- Area of Critical Environmental Concern (ACEC)

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Index Map

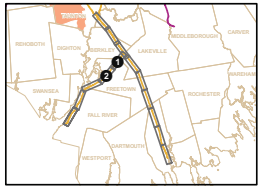
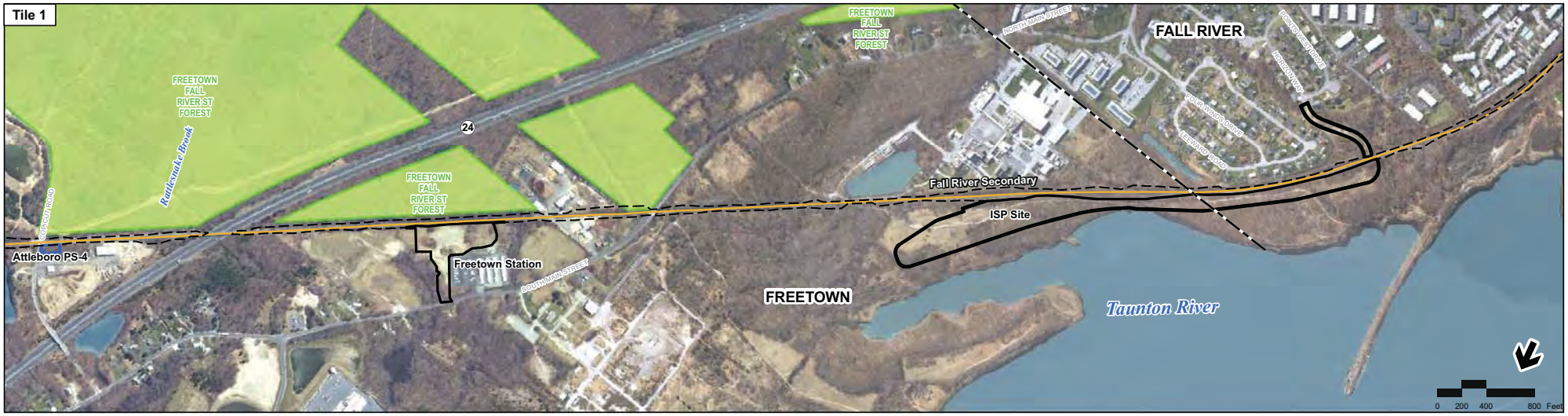


Figure 4.15-9

All Rail Alternatives
Fall River Secondary
(Sheet 1 of 3)

Threatened & Endangered Species



Printing Date: 7/12/09
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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignment
- Limit of Work for Proposed Station/ Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
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- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife
- Open Water
- Impacted NHESP Habitats
- Area of Critical Environmental Concern (ACEC)

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Index Map

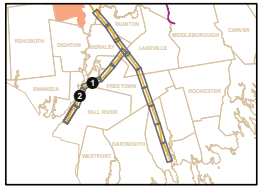

Figure 4.15-10

All Rail Alternatives
Fall River Secondary
(Sheet 2 of 3)

Threatened & Endangered Species

Printing Date: 7/12/09
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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignment
- Limit of Work for Proposed Station/ Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
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- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife
- Open Water
- Impacted NHESP Habitats
- Area of Critical Environmental Concern (ACEC)

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Index Map

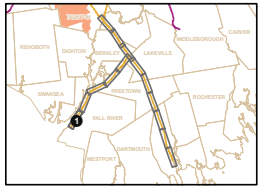

Figure 4.15-11

All Rail Alternatives
Fall River Secondary
(Sheet 3 of 3)

Threatened & Endangered Species

Printing Date: 2/6/2013
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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Stations
- Proposed Alternative
- Protected Open Space
- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife

Index Map

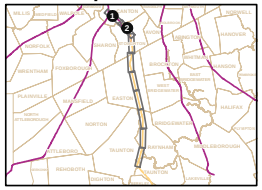
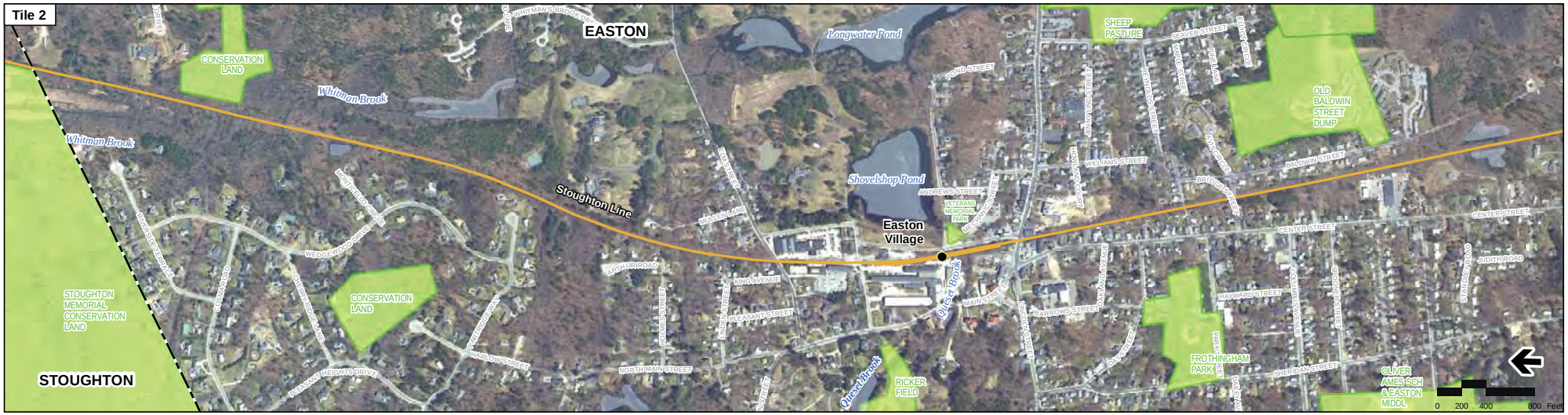


Figure 4.15-12

Stoughton Alternative
(Sheet 1 of 4)

Threatened & Endangered Species Polygons



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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Stations
- Proposed Alternative
- Protected Open Space
- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife

Index Map

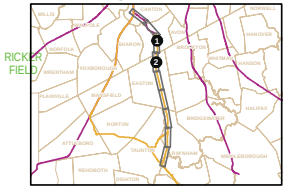
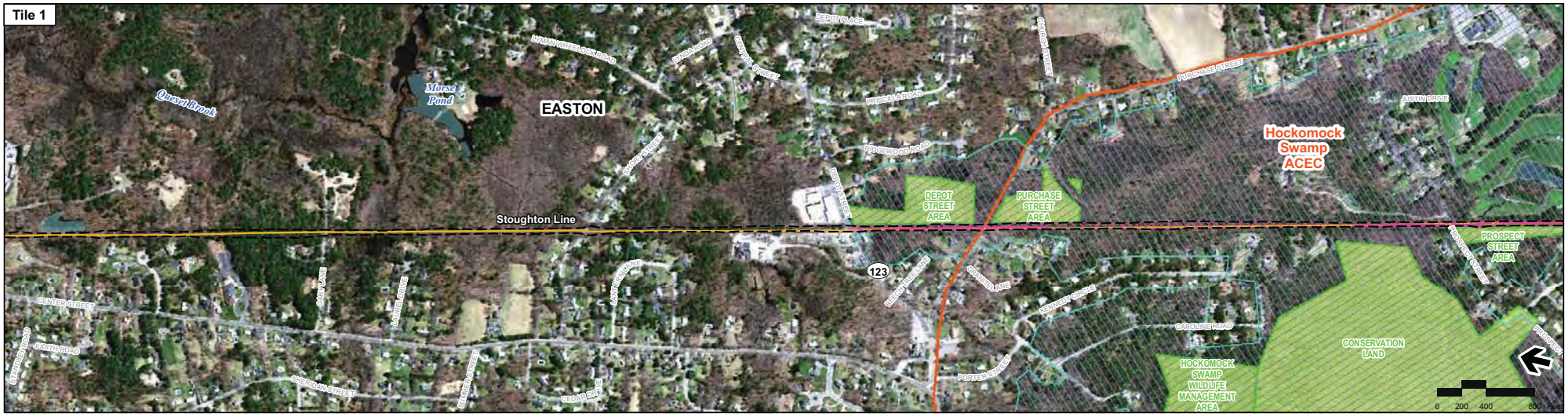
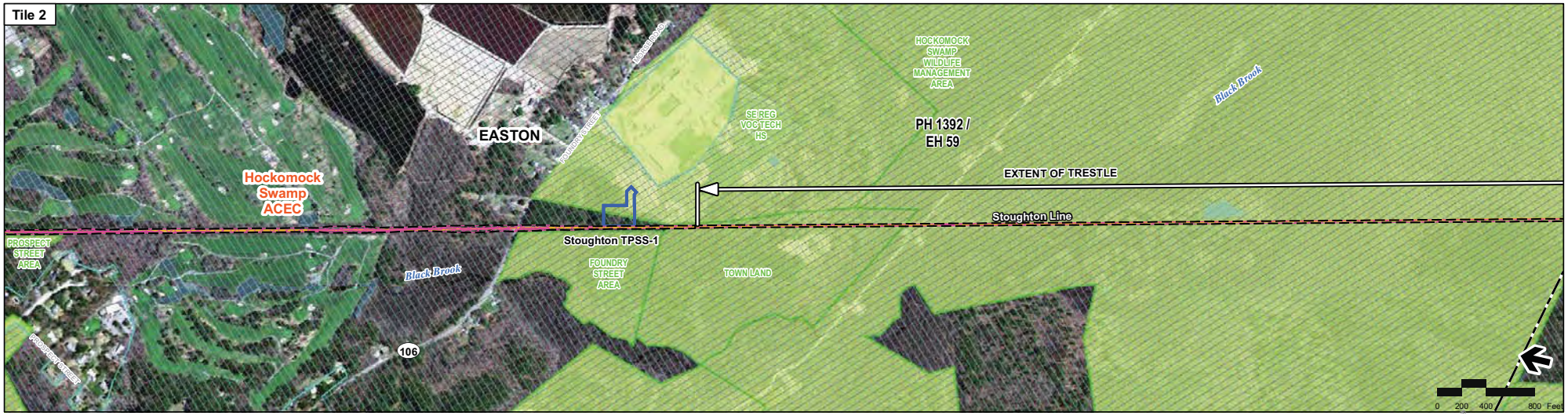


Figure 4.15-13

Stoughton Alternative
(Sheet 2 of 4)

Threatened & Endangered Species Polygons





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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignment
- Limit of Work for Proposed Station/ Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Protected Open Space
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- NHESP Estimated Habitats of Rare Wildlife
- Open Water
- Impacted NHESP Habitats
- Area of Critical Environmental Concern (ACEC)

* Traction power stations are only required for electric rail alternative

Index Map

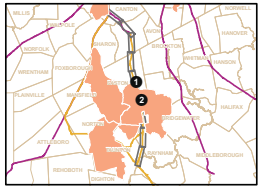
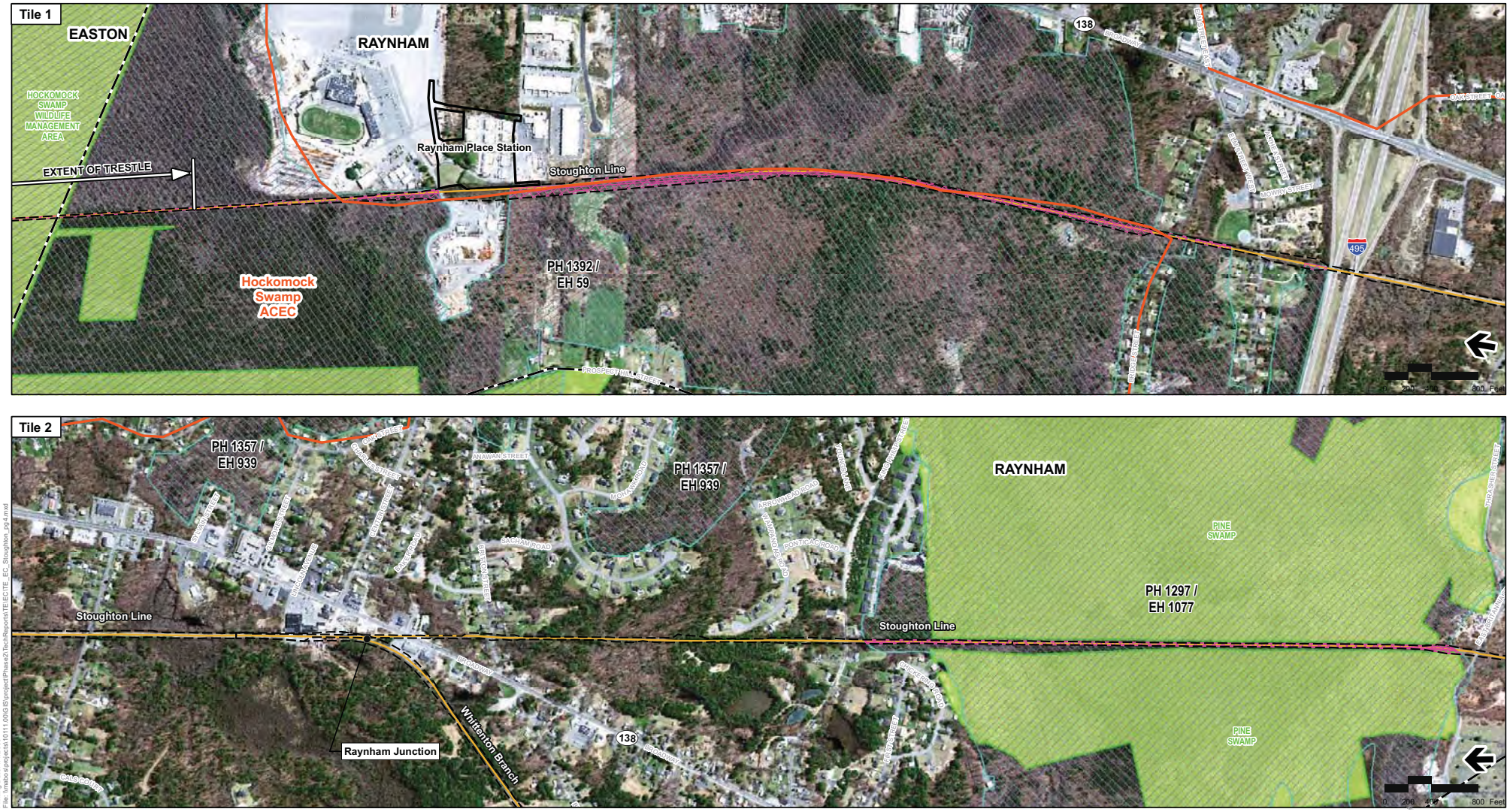


Figure 4.15-14
Stoughton Alternative (Sheet 3 of 4)
Threatened & Endangered Species



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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignment
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- NHESP Estimated Habitats of Rare Wildlife
- Open Water
- Impacted NHESP Habitats
- Area of Critical Environmental Concern (ACEC)

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Index Map

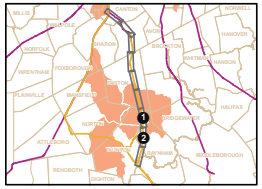
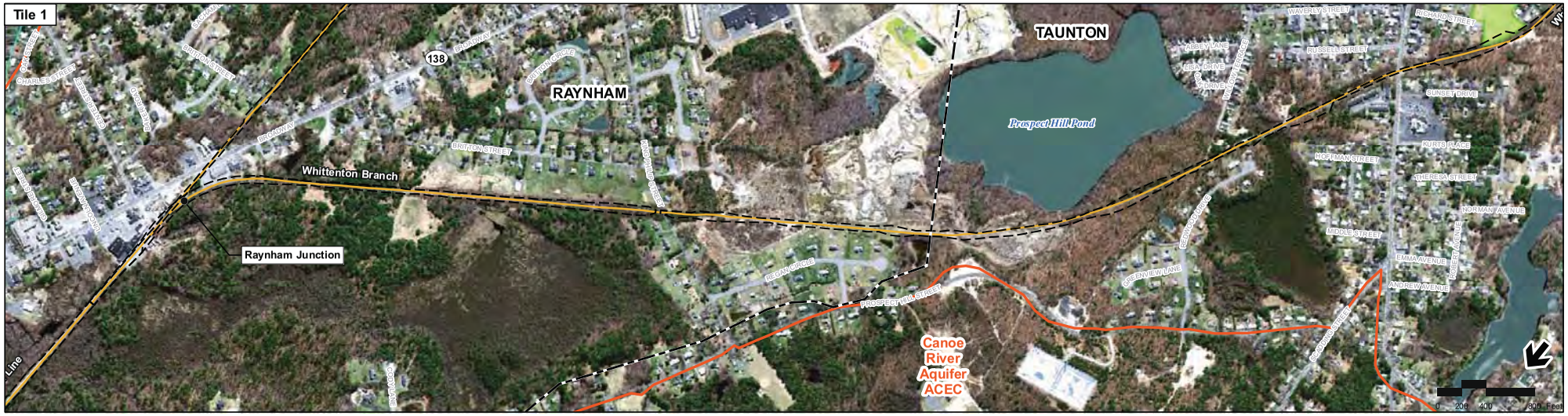


Figure 4.15-15

Stoughton Alternative
Stoughton Line
(Sheet 4 of 4)

Threatened & Endangered Species



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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignment
- Limit of Work for Proposed Station/ Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
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- Open Water
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Index Map

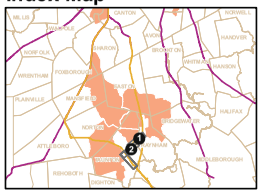
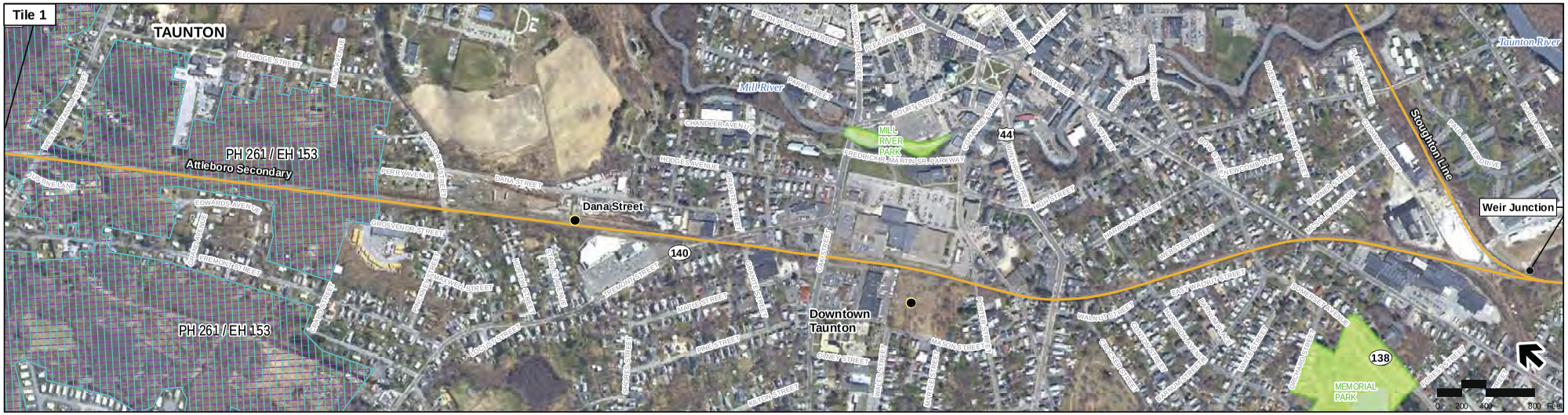


Figure 4.15-16

Whittenton Alternative (Sheet 1 of 2)

Threatened & Endangered Species



Printing Date: 1/31/2013
File: \\mabos\projects\10111.00\GIS\project\FEIS\Corps_Berger\TE_Fig2-9b_Whittenton.mxd

Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Stations
- Proposed Alternative
- Protected Open Space
- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife

Index Map

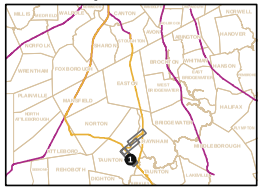
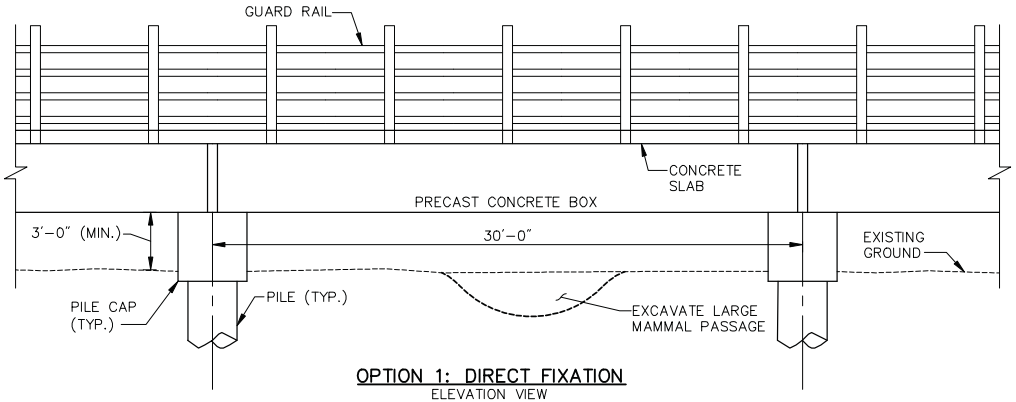
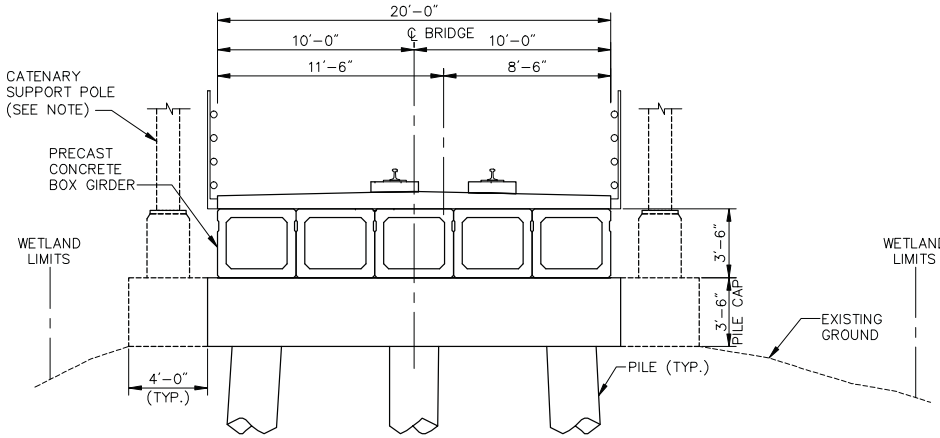


Figure 4.15-17
Whittenton Alternative (Sheet 2 of 2)
Threatened & Endangered Species Polygons

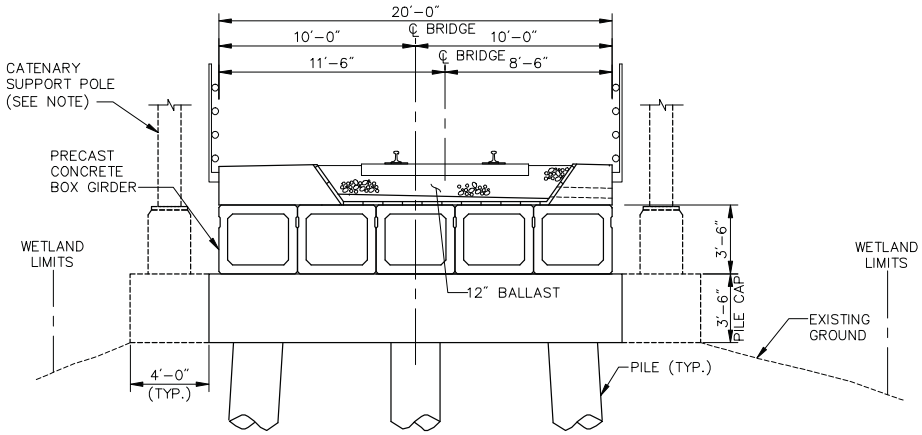


OPTION 1: DIRECT FIXATION
ELEVATION VIEW

NOTE: EVERY SEVENTH PILE CAP WILL BE LENGTHENED TO SUPPORT THE CATENARY SUPPORT POLES (SPACED AT 210' O.C.).



OPTION 1: DIRECT FIXATION
CROSS-SECTION AT PILES



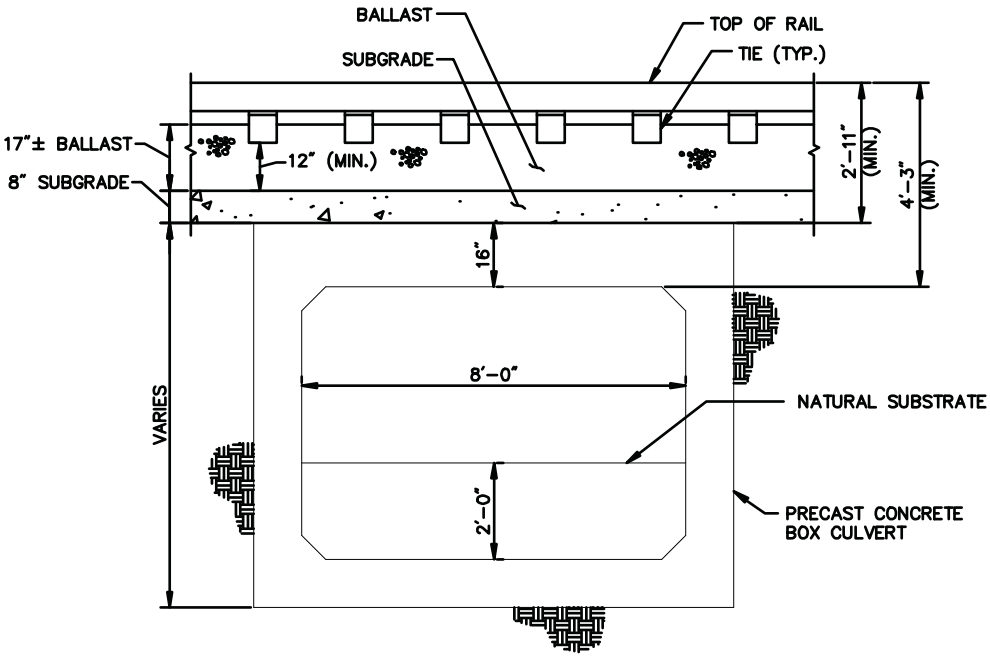
OPTION 2: BALLAST DECK
CROSS-SECTION AT PILES

W:\Kyung\Boston\10111.00\acad\plans\Boughton\10111_27.005_HOCKOMOCK.dwg Printing Date: 7/22/2009

0 3 6 Feet

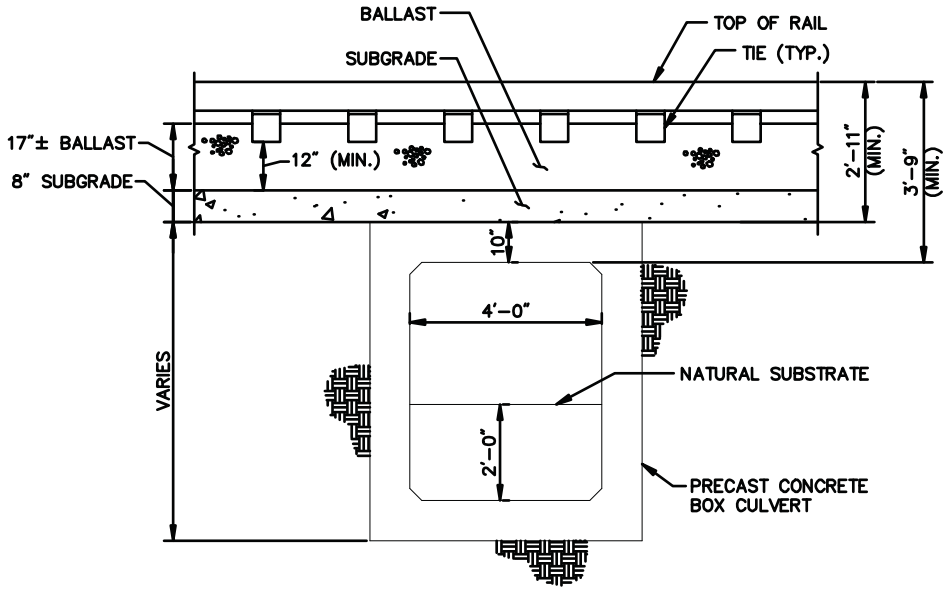
Figure 4.15-18

Trestle Through Hockomock Swamp



8'-0" WIDE PRECAST CONCRETE BOX CULVERT

SCALE: 1/4"= 1'-0"

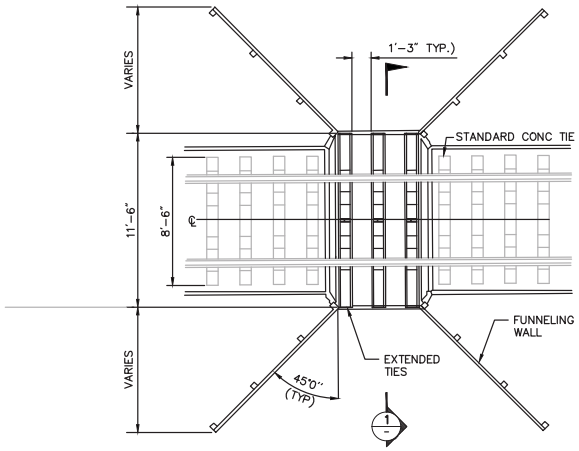


4'-0" WIDE PRECAST CONCRETE BOX CULVERT

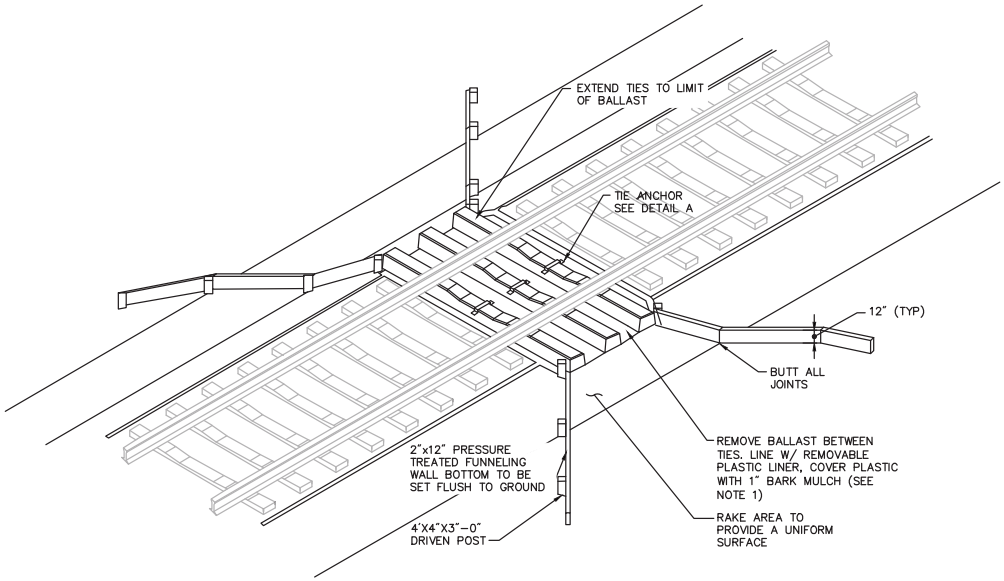
SCALE: 1/4"= 1'-0"

\\Kirk\proj\Boston\10111.00\cad\st\planmisc\Culvert Sections.dwg Printing Date: 6/25/2009

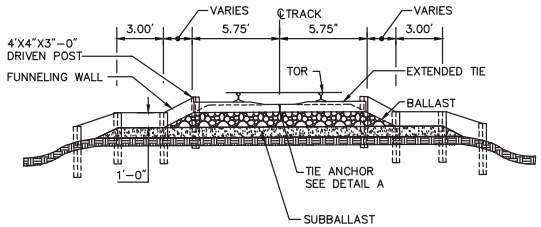
Figure 4.15-19
Typical Cross Sections Concrete Block Culvert



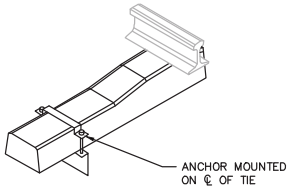
BETWEEN-TIE CROSSING PLAN
NTS



BETWEEN-TIE CROSSING
NTS



SECTION 1
NTS



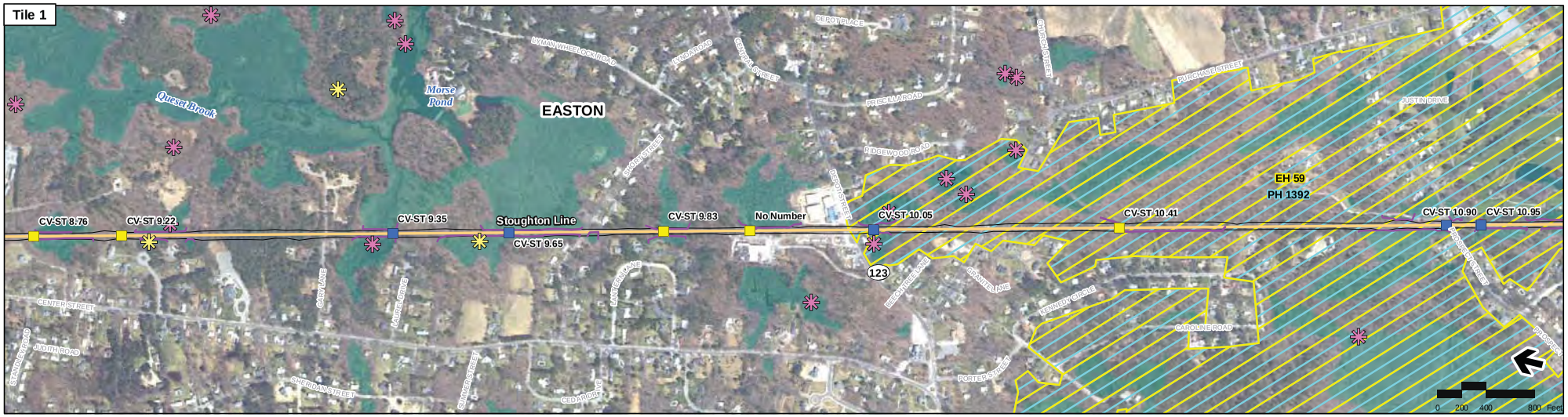
TIE ANCHOR DETAIL A
NTS

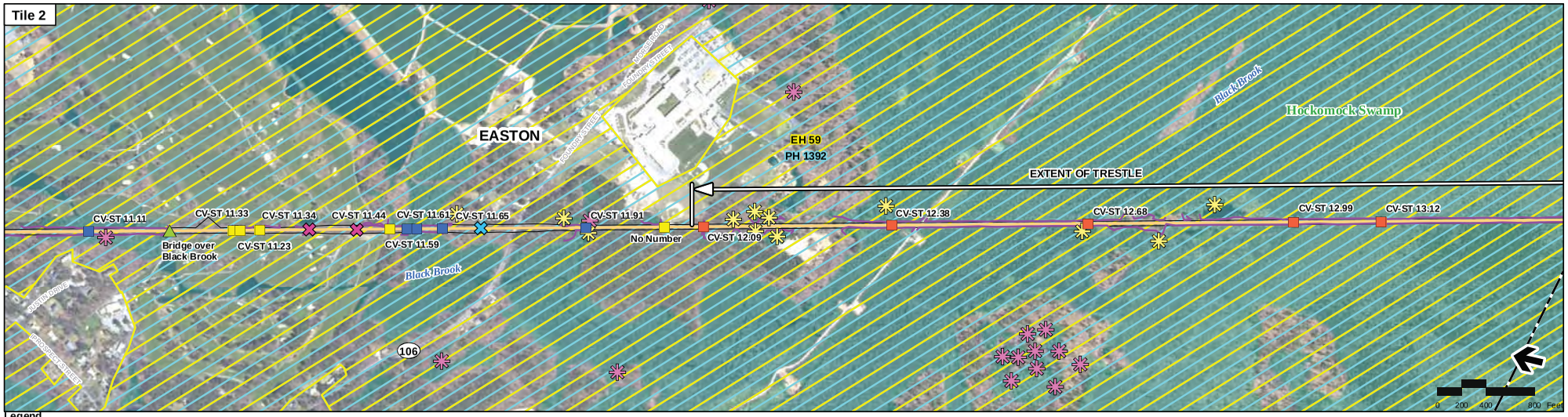
NOTES:

1. CONTRACTOR TO REMOVE BALLAST BETWEEN TIES AND LINE AREA WITH 40 MIL HDPE FORMED TIGHTLY BETWEEN TIES. CONNECT TO CONC TIES WITH CONC ANCHORS

Figure 4.15-20

Between-tie Crossing





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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Stations
- Stoughton Line
- Limit of Disturbance (LOD)

Wetlands

- Wetland Delineation
- Wetland

Vernal Pools

- Certified Vernal Pool
- Potential Vernal Pool

Bridges

- Constrained by Physical Characteristics
- Recommended to meet MA River and Stream Crossing Standards

Crossings

- Between-tie Crossing
- Tunnel Crossing
- Wildlife Crossing, Type to be Determined

Culverts

- Hydraulic Analysis, Replace in kind, or Eliminate
- Recommended to be Daylighted
- Recommended to meet MA River and Stream Crossing Standards

Rare Species

- NHESP Priority Habitat of Rare Species
- NHESP Estimated Habita of Rare Wildlife

Index Map

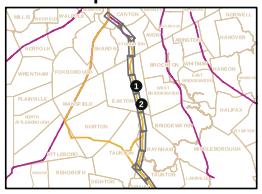
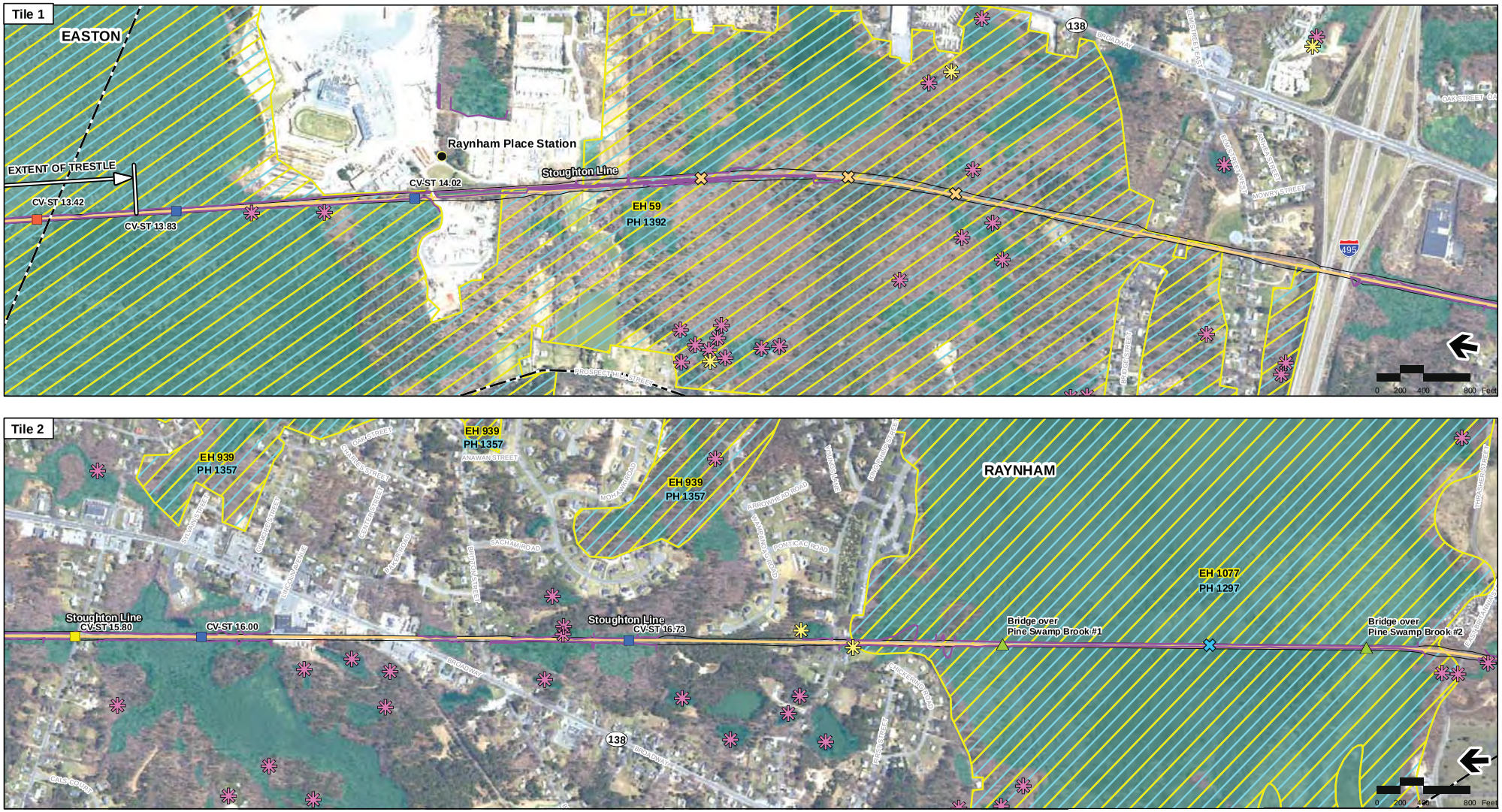


Figure 4.15-21

Stoughton Alternative
Stoughton Line
(Sheet 1 of 2)

Mitigation Measures
Threatened & Endangered Species



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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Stations
- Stoughton Line
- Limit of Disturbance (LOD)

Wetlands

- Wetland Delineation
- Wetland

Vernal Pools

- Certified Vernal Pool
- Potential Vernal Pool

Bridges

- Constrained by Physical Characteristics
- Recommended to meet MA River and Stream Crossing Standards

Crossings

- Between-tie Crossing
- Tunnel Crossing
- Wildlife Crossing, Type to be Determined

Culverts

- Hydraulic Analysis, Replace in kind, or Eliminate
- Recommended to be Daylighted
- Recommended to meet MA River and Stream Crossing Standards

Rare Species

- NHESP Priority Habitat of Rare Species
- NHESP Estimated Habita of Rare Wildlife

Index Map

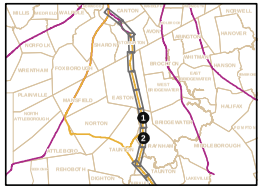
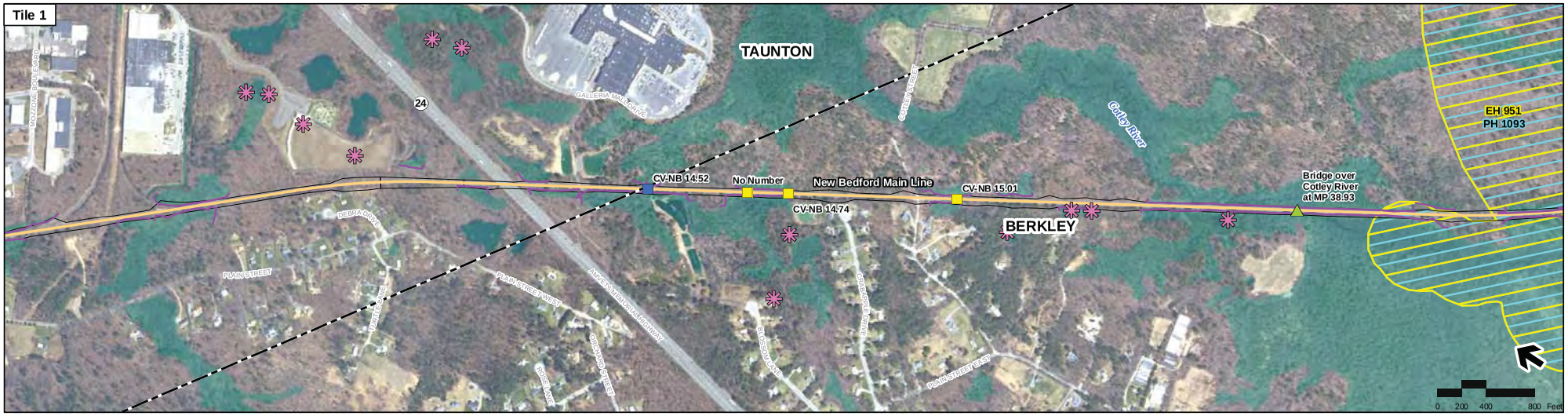
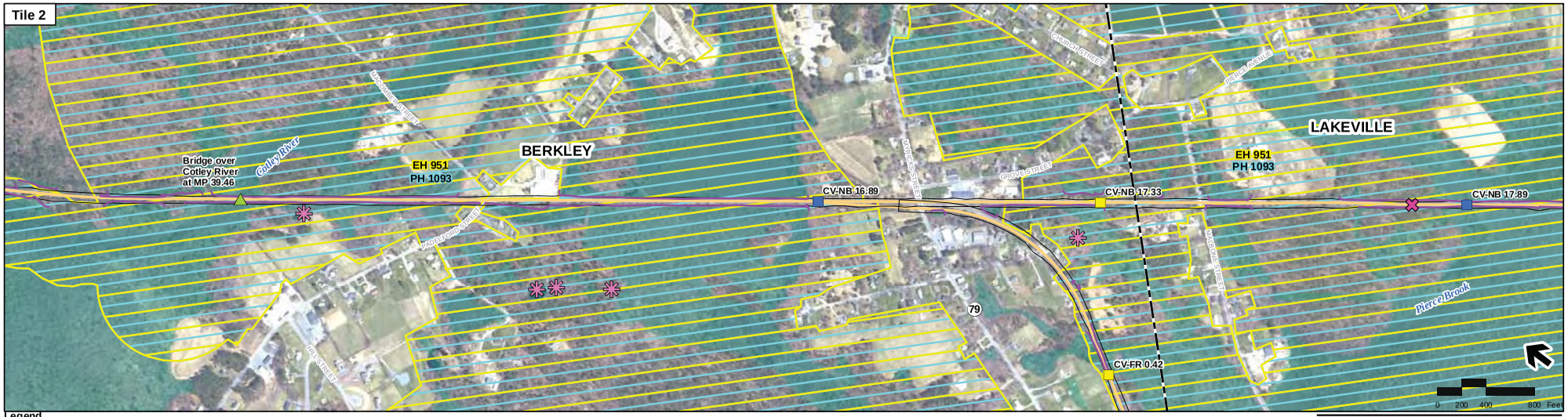


Figure 4.15-22

Stoughton Alternative
Stoughton Line
(Sheet 2 of 2)

Mitigation Measures
Threatened & Endangered Species





Printing Date: 6/14/2012
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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Stations
- Stoughton Line
- Limit of Disturbance (LOD)

Wetlands

- Wetland Delineation
- Wetland

Vernal Pools

- Certified Vernal Pool
- Potential Vernal Pool

Bridges

- Constrained by Physical Characteristics
- Recommended to meet MA River and Stream Crossing Standards

Crossings

- Between-tie Crossing
- Tunnel Crossing
- Wildlife Crossing, Type to be Determined

Culverts

- Hydraulic Analysis, Replace in kind, or Eliminate
- Recommended to be Daylighted
- Recommended to meet MA River and Stream Crossing Standards

Rare Species

- NHESP Priority Habitat of Rare Species
- NHESP Estimated Habita of Rare Wildlife

Index Map

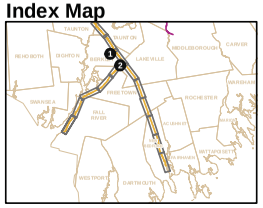
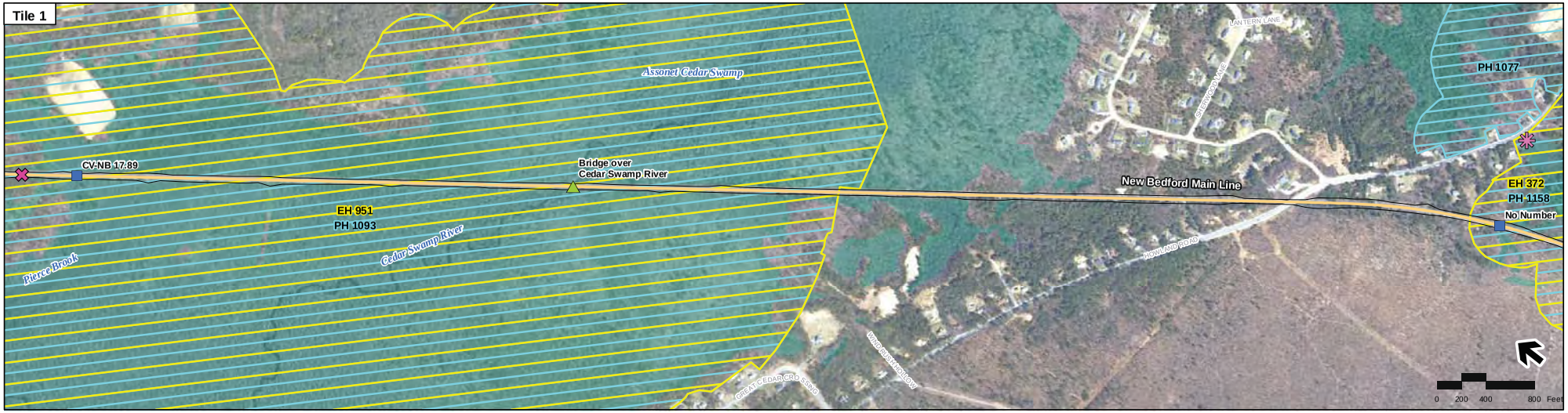


Figure 4.15-23

All Rail Alternatives
New Bedford Main Line
(Sheet 1 of 4)

Mitigation Measures
Threatened & Endangered Species



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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Stations
- Stoughton Line
- Limit of Disturbance (LOD)

Wetlands

- Wetland Delineation
- Wetland

Vernal Pools

- Certified Vernal Pool
- Potential Vernal Pool

Bridges

- Constrained by Physical Characteristics
- Recommended to meet MA River and Stream Crossing Standards

Crossings

- Between-tie Crossing
- Tunnel Crossing
- Wildlife Crossing, Type to be Determined

Culverts

- Hydraulic Analysis, Replace in kind, or Eliminate
- Recommended to be Daylighted
- Recommended to meet MA River and Stream Crossing Standards

Rare Species

- NHESP Priority Habitat of Rare Species
- NHESP Estimated Habita of Rare Wildlife

Index Map

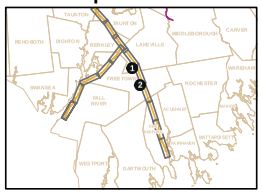
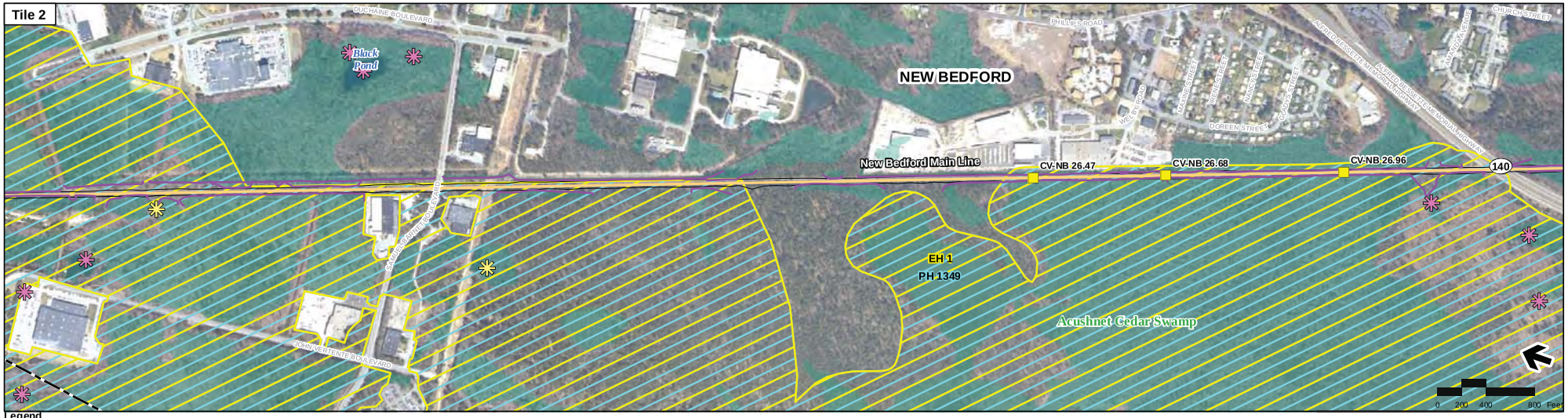


Figure 4.15-24

All Rail Alternatives
New Bedford Main Line
(Sheet 2 of 4)

Mitigation Measures
Threatened & Endangered Species



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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Stations
- Stoughton Line
- Limit of Disturbance (LOD)

Wetlands

- Wetland Delineation
- Wetland

Vernal Pools

- Certified Vernal Pool
- Potential Vernal Pool

Bridges

- Constrained by Physical Characteristics
- Recommended to meet MA River and Stream Crossing Standards

Crossings

- Between-tie Crossing
- Tunnel Crossing
- Wildlife Crossing, Type to be Determined

Culverts

- Hydraulic Analysis, Replace in kind, or Eliminate
- Recommended to be Daylighted
- Recommended to meet MA River and Stream Crossing Standards

Rare Species

- NHESP Priority Habitat of Rare Species
- NHESP Estimated Habita of Rare Wildlife

Index Map

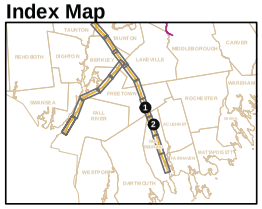

Figure 4.15-25

All Rail Alternatives
New Bedford Main Line
(Sheet 3 of 4)

Mitigation Measures
Threatened & Endangered Species

Printing Date: 5/14/2012
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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Stations
- Stoughton Line
- CAPS Index of Ecological Integrity Top 50% of the Landscape

Wetlands

- Wetland Delineation
- Wetland

Vernal Pools

- Certified Vernal Pool
- Potential Vernal Pool

Bridges

- Constrained by Physical Characteristics
- Recommended to meet MA River and Stream Crossing Standards

Crossings

- Between-tie Crossing
- Tunnel Crossing
- Wildlife Crossing, Type to be Determined

Culverts

- Hydraulic Analysis, Replace in kind, or Eliminate
- Recommended to be Daylighted
- Recommended to meet MA River and Stream Crossing Standards

Index Map

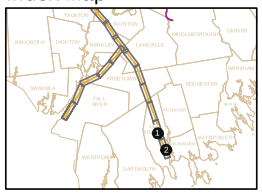
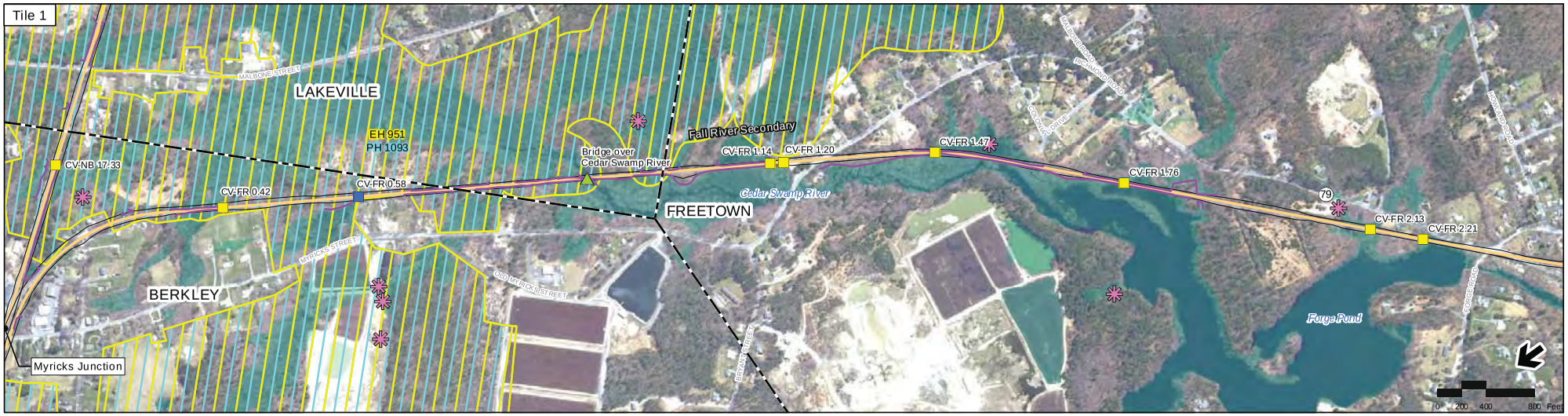


Figure 4.15-26

All Rail Alternatives
New Bedford Main Line
(Sheet 4 of 4)

Mitigation Measures
Threatened & Endangered Species



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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Stations
- Stoughton Line
- Limit of Disturbance (LOD)

Wetlands

- Wetland Delineation
- Wetland

Vernal Pools

- Certified Vernal Pool
- Potential Vernal Pool

Bridges

- Constrained by Physical Characteristics
- Recommended to meet MA River and Stream Crossing Standards

Crossings

- Between-tie Crossing
- Tunnel Crossing
- Wildlife Crossing, Type to be Determined

Culverts

- Hydraulic Analysis, Replace in kind, or Eliminate
- Recommended to be Daylighted
- Recommended to meet MA River and Stream Crossing Standards

Rare Species

- NHESP Priority Habitat of Rare Species
- NHESP Estimated Habita of Rare Wildlife

Index Map

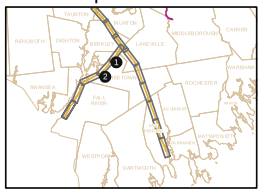
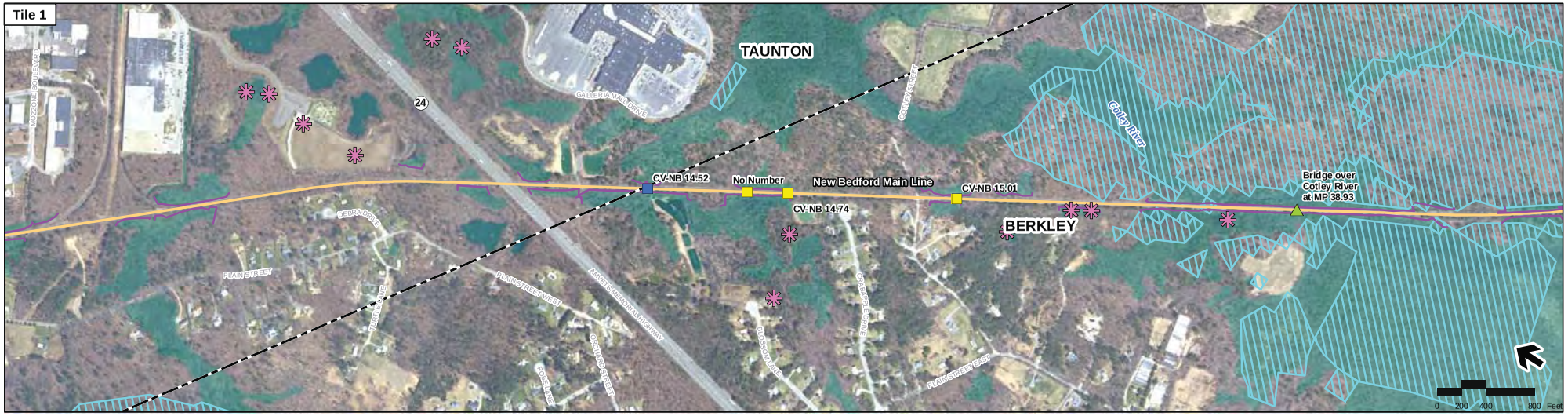
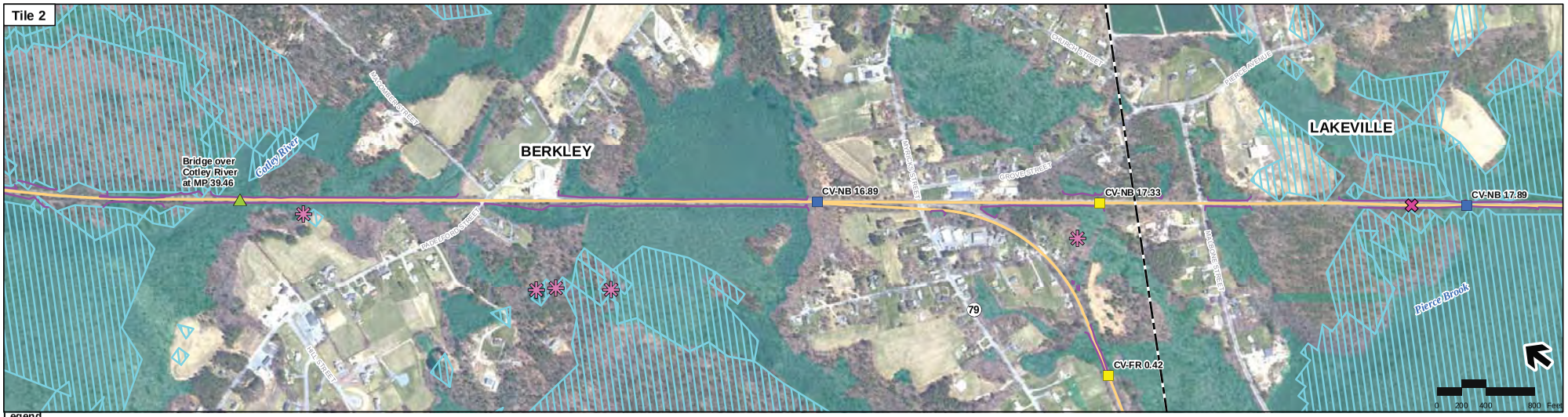


Figure 4.15-27

All Rail Alternatives
Fall River Secondary
(Sheet 1 of 3)

Mitigation Measures
Threatened & Endangered Species





Printing Date: 5/14/2012
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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Stations
- Stoughton Line
- CAPS Index of Ecological Integrity Top 50% of the Landscape

Wetlands

- Wetland Delineation
- Wetland

Vernal Pools

- Certified Vernal Pool
- Potential Vernal Pool

Bridges

- Constrained by Physical Characteristics
- Recommended to meet MA River and Stream Crossing Standards

Crossings

- Between-tie Crossing
- Tunnel Crossing
- Wildlife Crossing, Type to be Determined

Culverts

- Hydraulic Analysis, Replace in kind, or Eliminate
- Recommended to be Daylighted
- Recommended to meet MA River and Stream Crossing Standards

Index Map

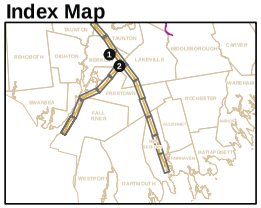


Figure 4.15-28

All Rail Alternatives
Fall River Secondary
(Sheet 2 of 3)

Mitigation Measures
Threatened & Endangered Species

Printing Date: 5/14/2012
File: \\nabos\projects\10111.00\GIS\project\FEIS\Bridge_Culvert\FallRiver_Page3.mxd

Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Stations
- Stoughton Line
- CAPS Index of Ecological Integrity Top 50% of the Landscape

We lands

- Wetland Delineation
- Wetland

Vernal Pools

- Certified Vernal Pool
- Potential Vernal Pool

Bridges

- Constrained by Physical Characteristics
- Recommended to meet MA River and Stream Crossing Standards

Crossings

- Between-tie Crossing
- Tunnel Crossing
- Wildlife Crossing, Type to be Determined

Culver s

- Hydraulic Analysis, Replace in kind, or Eliminate
- Recommended to be Daylighted
- Recommended to meet MA River and Stream Crossing Standards

Index Map

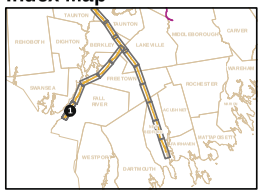


Figure 4.15-29

All Rail Alternatives
Fall River Secondary
(Sheet 3 of 3)

Mitigation Measures
Threatened & Endangered Species

Printing Date: 3/15/2013
File: \\AABOS\projects\10111.00\GIS\project\FEIS\Whittenton\Bridges_Culverts\Bridges_Culverts_Whittenton_Page1.mxd

Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Stations
- Stoughton Line
- CAPS Index of Ecological Integrity Top 50% of the Landscape

Wetlands

- Wetland Delineation
- Wetland

Vernal Pools

- Certified Vernal Pool
- Potential Vernal Pool

Bridges

- Constrained by Physical Characteristics
- Recommended to meet MA River and Stream Crossing Standards

Crossings

- Between-tie Crossing
- Tunnel Crossing
- Wildlife Crossing, Type to be Determined

Culverts

- Hydraulic Analysis, Replace in kind, or Eliminate
- Recommended to be Daylighted
- Recommended to meet MA River and Stream Crossing Standards

Index Map

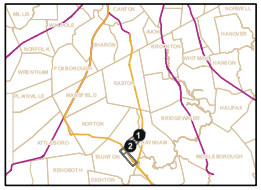


Figure 4.15-30

Whittenton Alternative
(Sheet 1 of 2)

Mitigation Measures
Threatened & Endangered Species

Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Stations
- Stoughton Line
- CAPS Index of Ecological Integrity Top 50% of the Landscape

Wetlands

- Wetland Delineation
- Wetland

Vernal Pools

- Certified Vernal Pool
- Potential Vernal Pool

Bridges

- Constrained by Physical Characteristics
- Recommended to meet MA River and Stream Crossing Standards

Crossings

- Between-tie Crossing
- Tunnel Crossing
- Wildlife Crossing, Type to be Determined

Culverts

- Hydraulic Analysis, Replace in kind, or Eliminate
- Recommended to be Daylighted
- Recommended to meet MA River and Stream Crossing Standards

Index Map

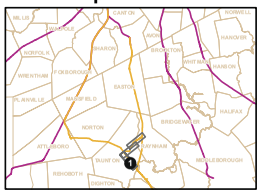
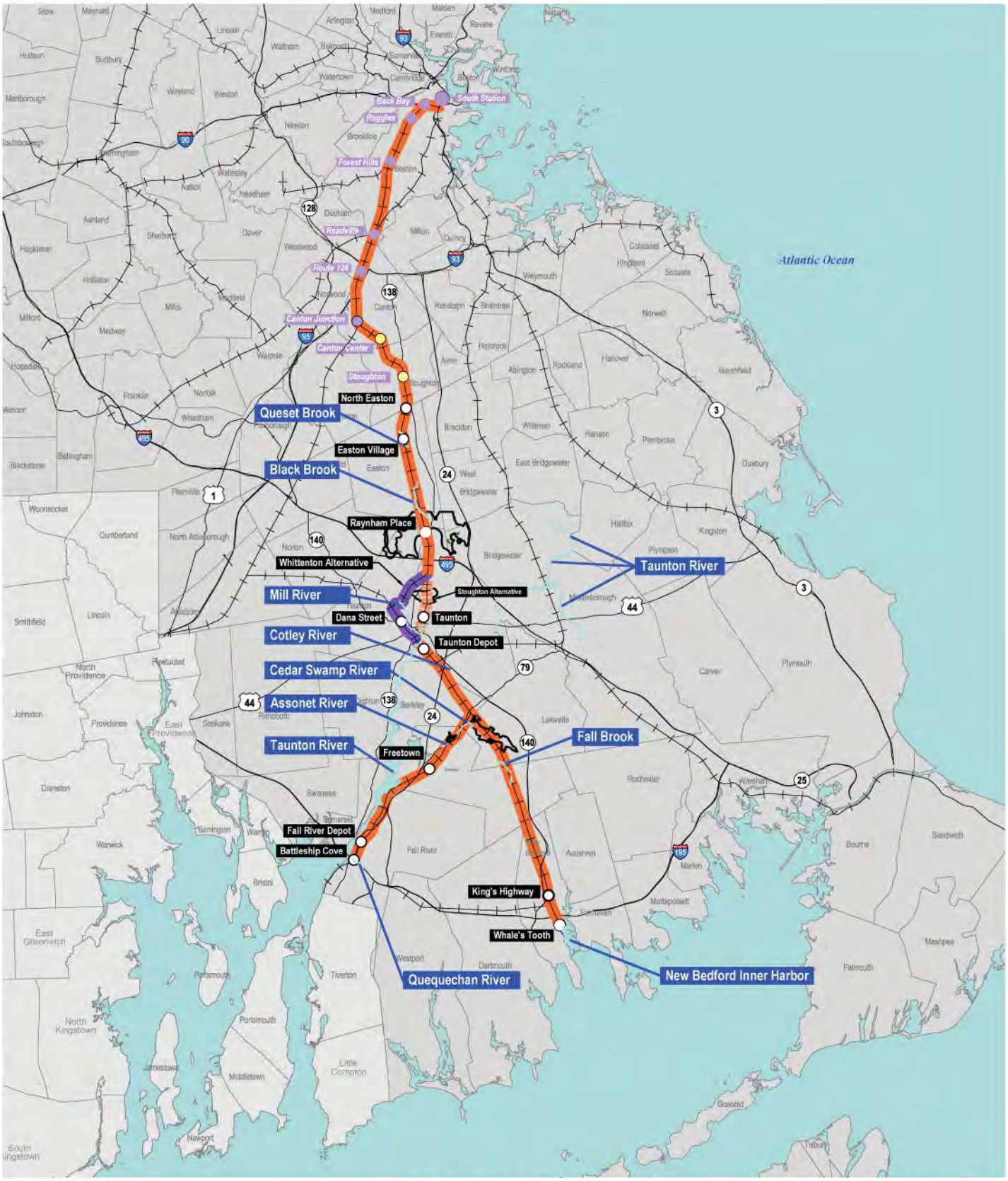


Figure 4.15-31

Whittenton Alternative (Sheet 2 of 2)

Mitigation Measures Threatened & Endangered Species



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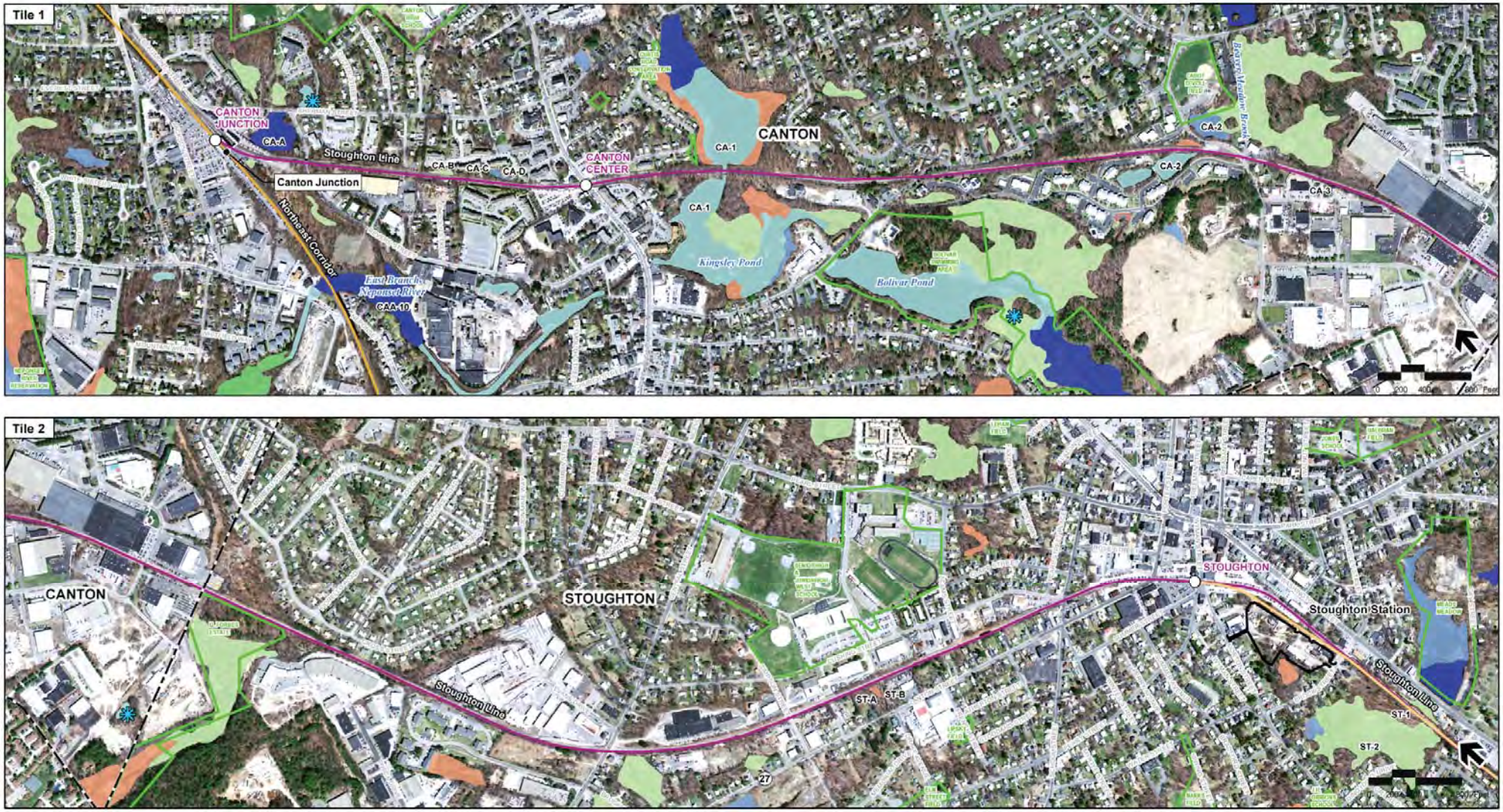
Legend

- Whittenton Alternative
- Existing Stations
- Proposed Stations
- Existing Stations to be Reconstructed

0 4 8 Miles

Figure 4.16-1

Major Water Bodies



Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Stations
- Proposed Alternative
- Protected Open Space
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools; NOT equivalent to Certified Vernal Pools

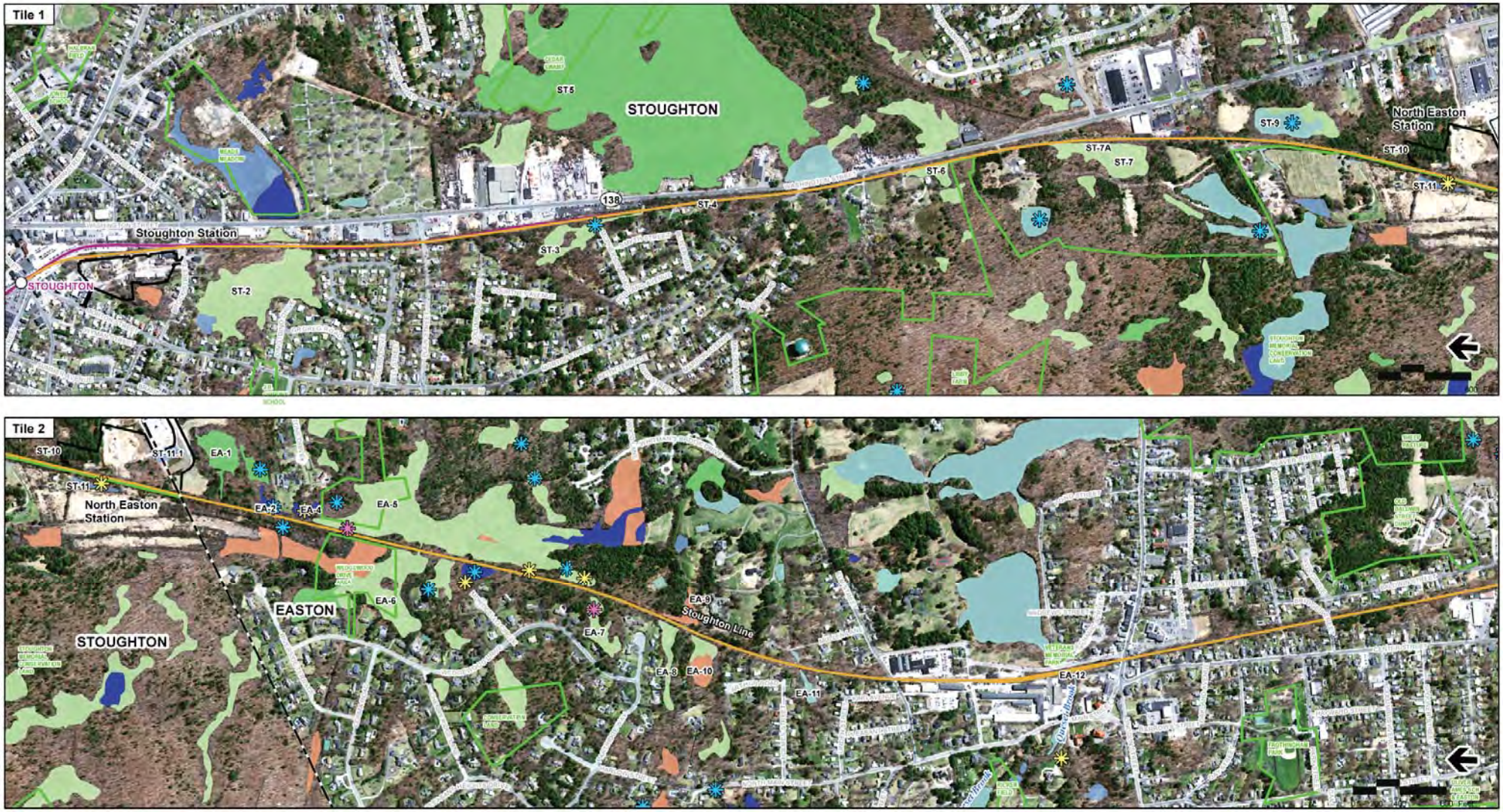
Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

Index Map

Figure 4.16-2a

Wetlands
Stoughton Line



Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Stations
- Proposed Alternative
- Protected Open Space
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools; NOT equivalent to Certified Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

Index Map

Figure 4.16-2b

Wetlands
Stoughton Line

Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

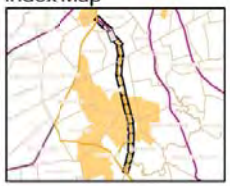
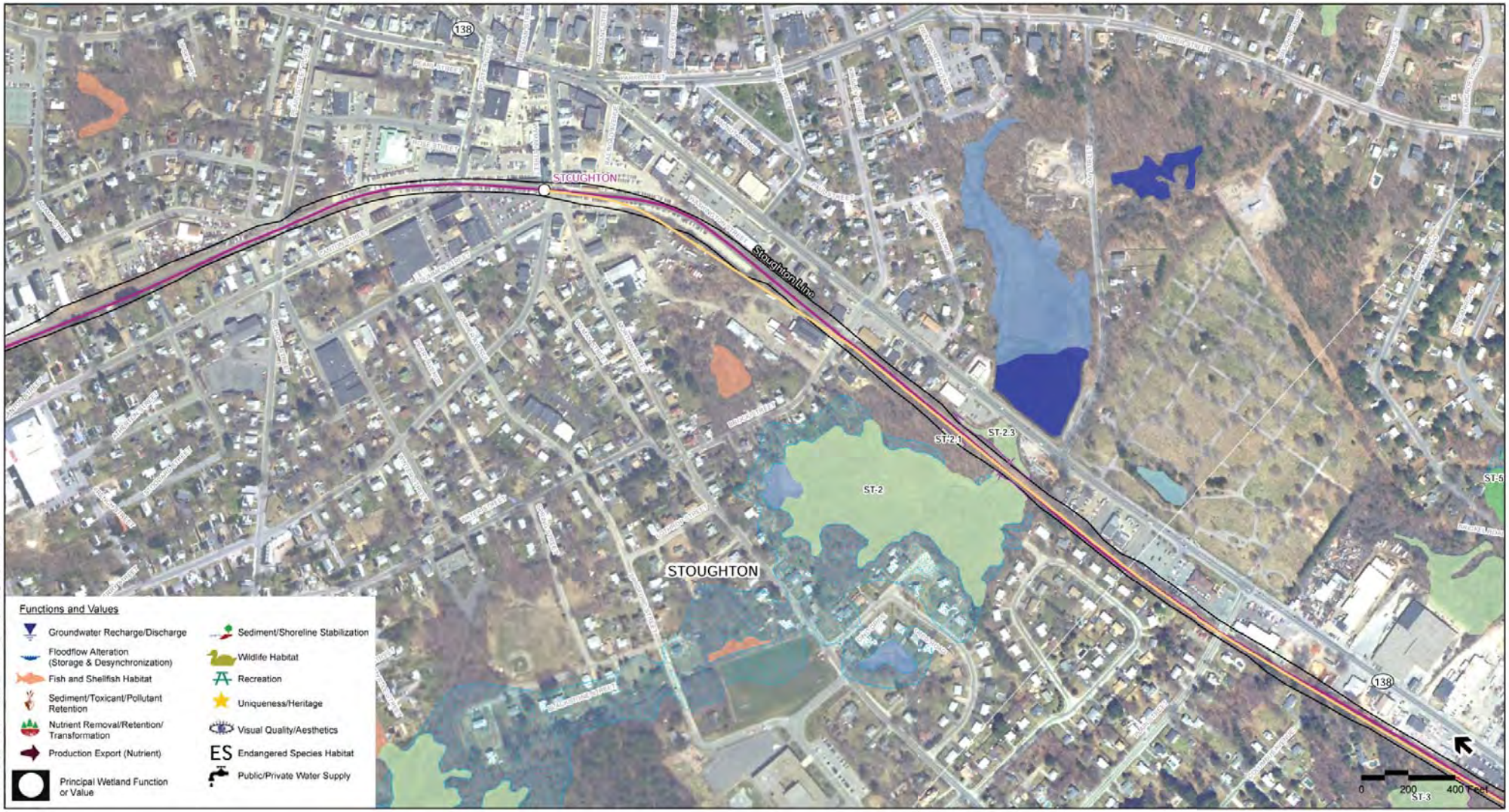


Figure 4.16-2c

Wetland Impacts
Stoughton Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

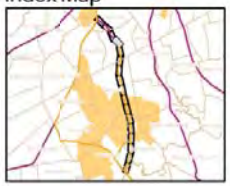
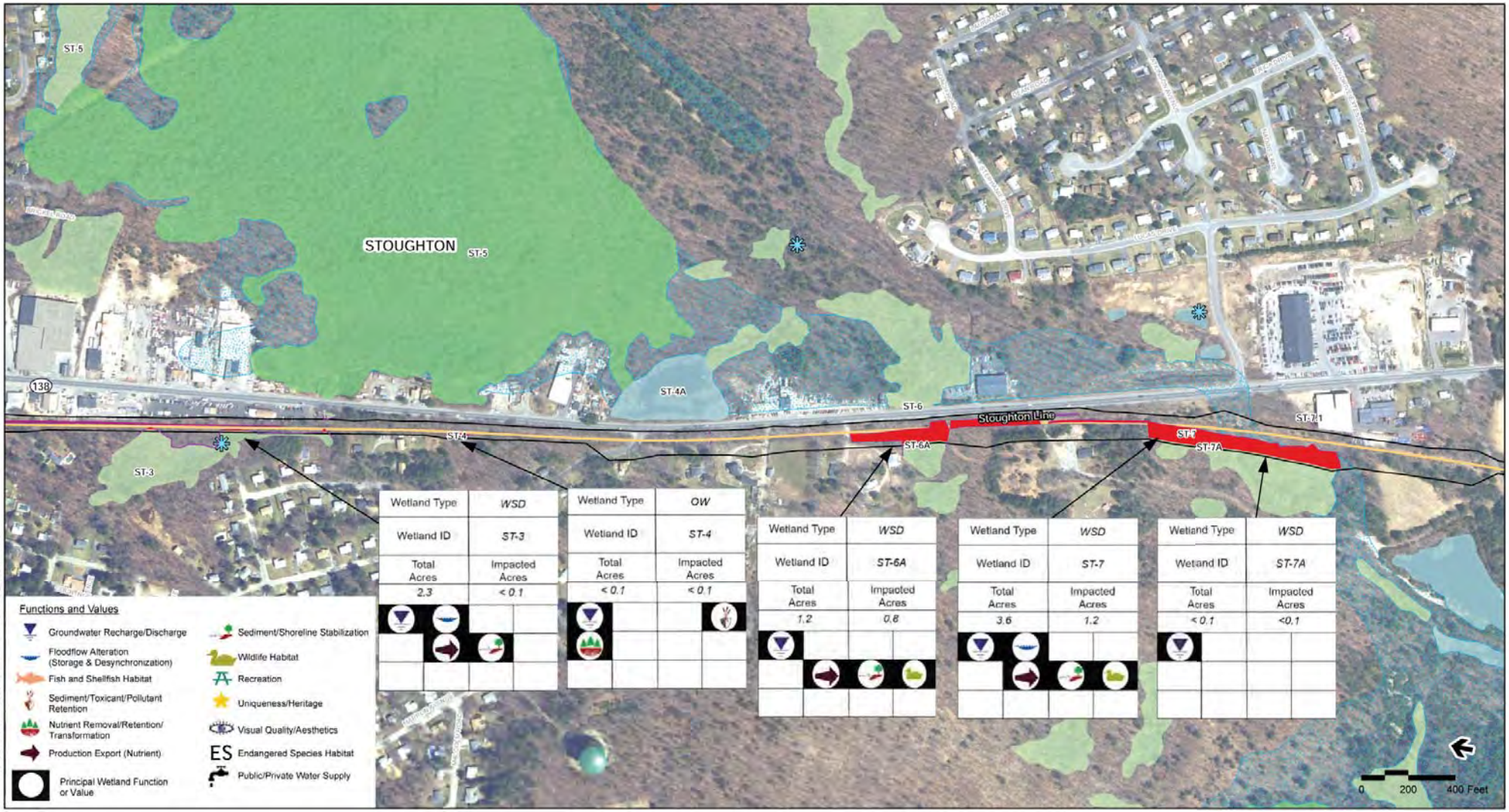


Figure 4.16-2d

Wetland Impacts
Stoughton Line



Wetland Type	WSD
Wetland ID	ST-3
Total Acres	Impacted Acres
2.3	< 0.1

Wetland Type	OW
Wetland ID	ST-4
Total Acres	Impacted Acres
< 0.1	< 0.1

Wetland Type	WSD
Wetland ID	ST-6A
Total Acres	Impacted Acres
1.2	0.8

Wetland Type	WSD
Wetland ID	ST-7
Total Acres	Impacted Acres
3.6	1.2

Wetland Type	WSD
Wetland ID	ST-7A
Total Acres	Impacted Acres
< 0.1	<0.1

Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

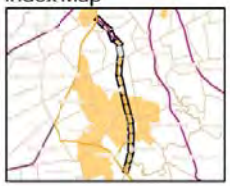


Figure 4.16-2e

Wetland Impacts
Stoughton Line

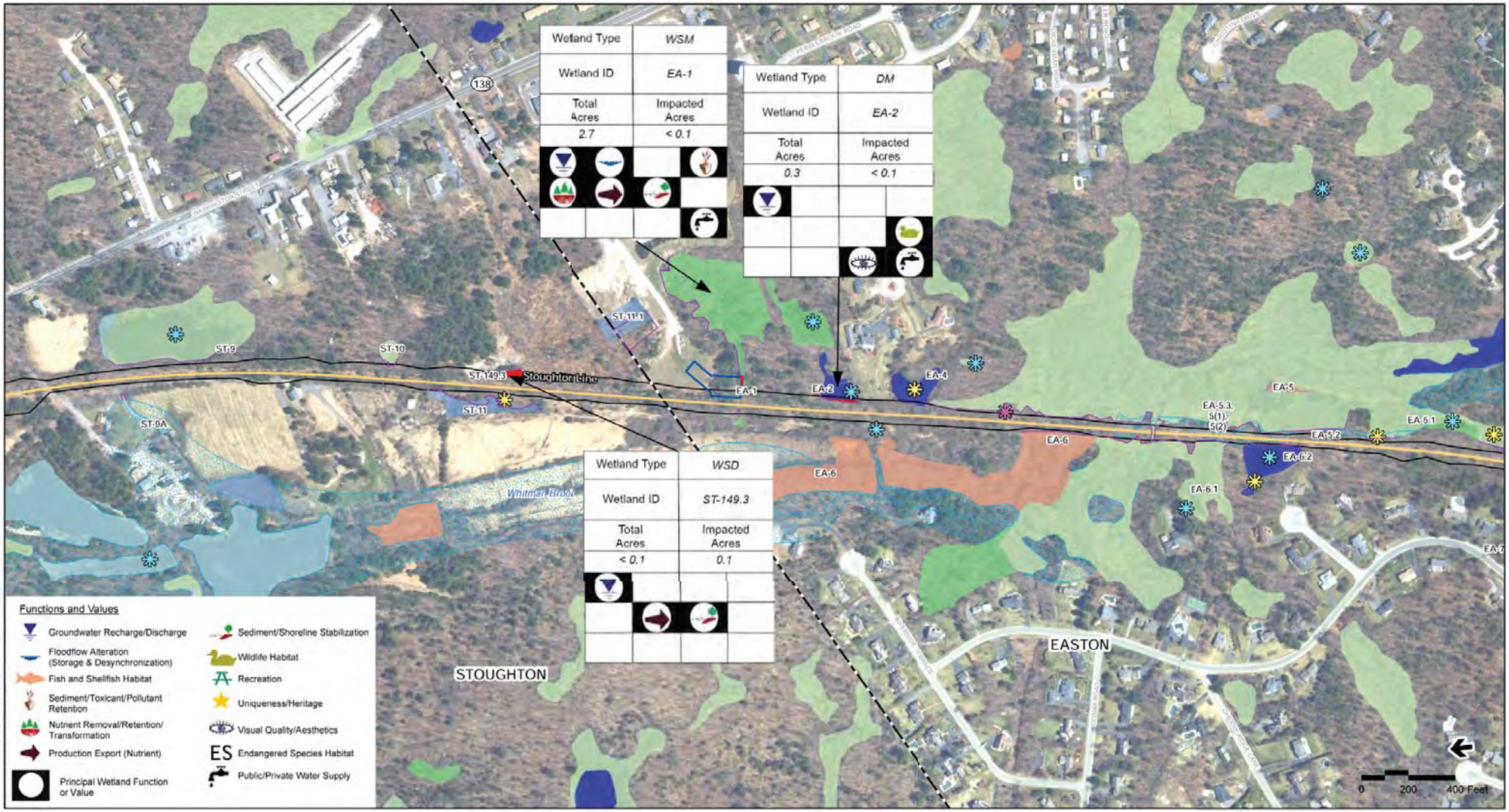
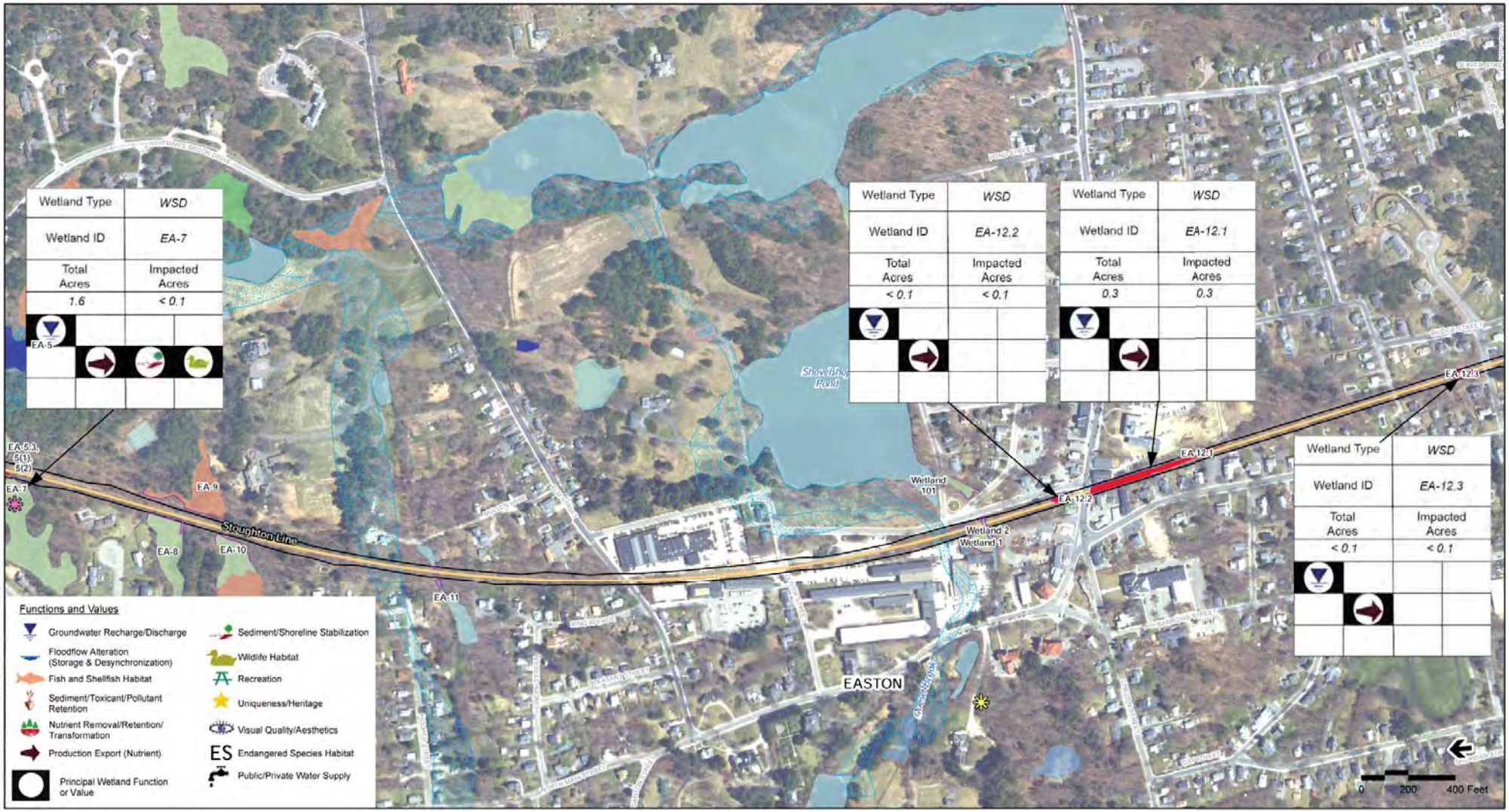


Figure 4.16-2f

Wetland Impacts
Stoughton Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
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- NHESP Potential Vernal Pools
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Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

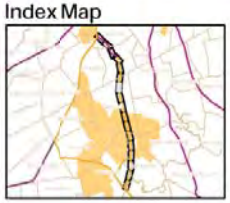
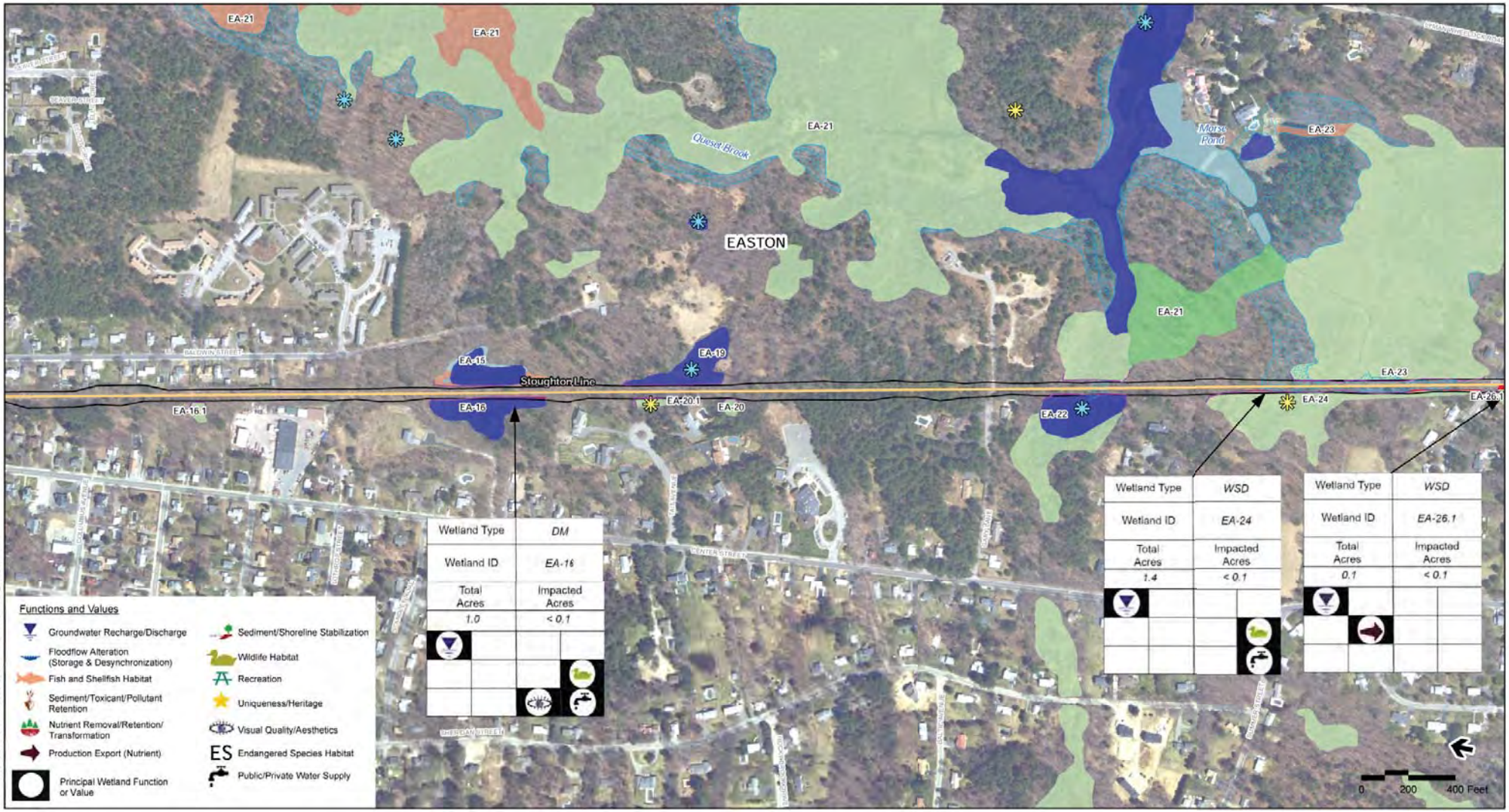


Figure 4.16-2g

Wetland Impacts
Stoughton Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
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Note: NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

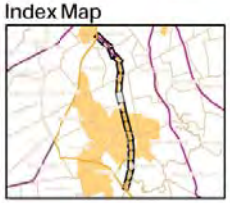
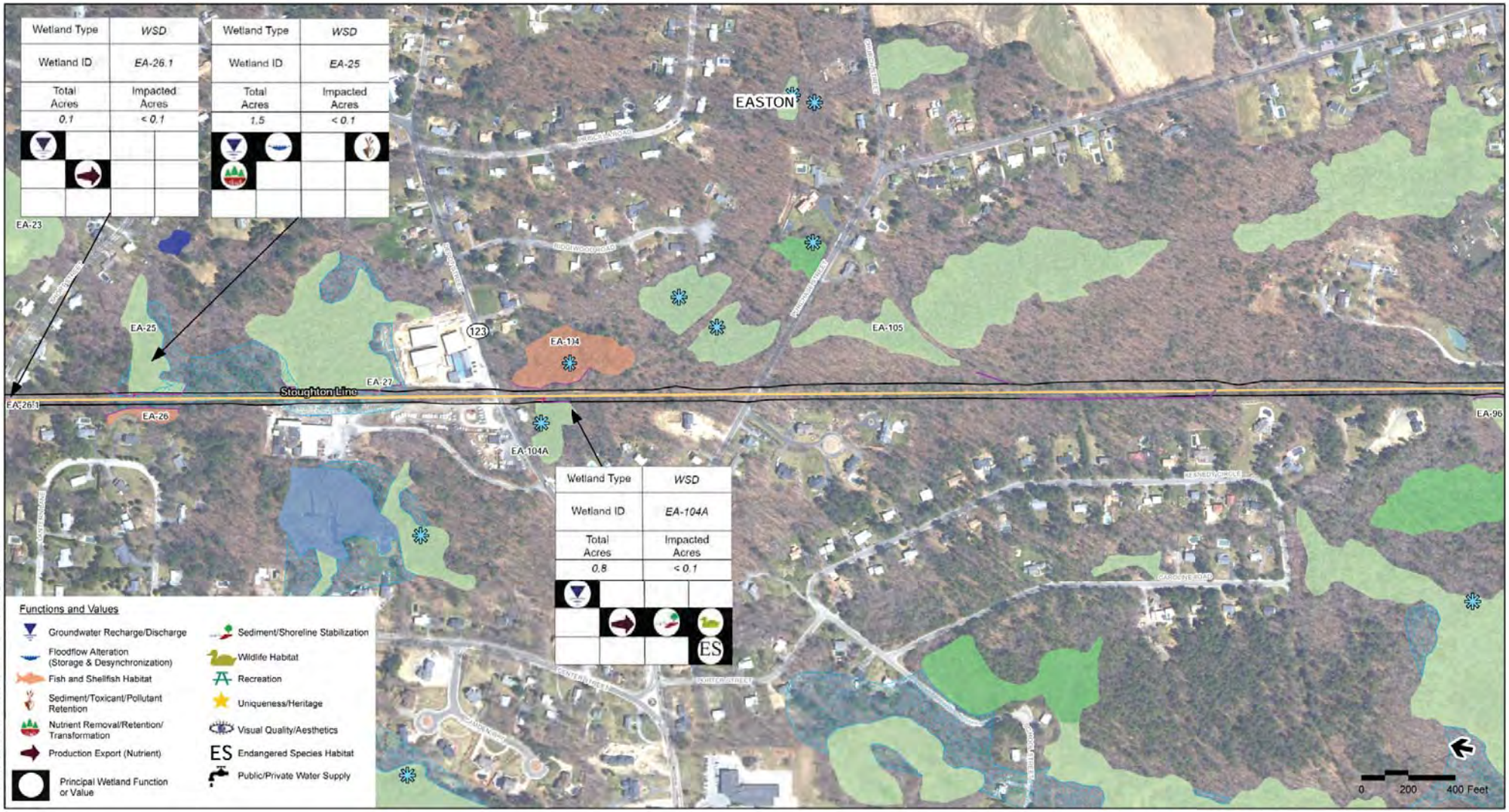


Figure 4.16-2h

Wetland Impacts
Stoughton Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
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- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

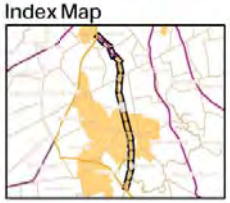
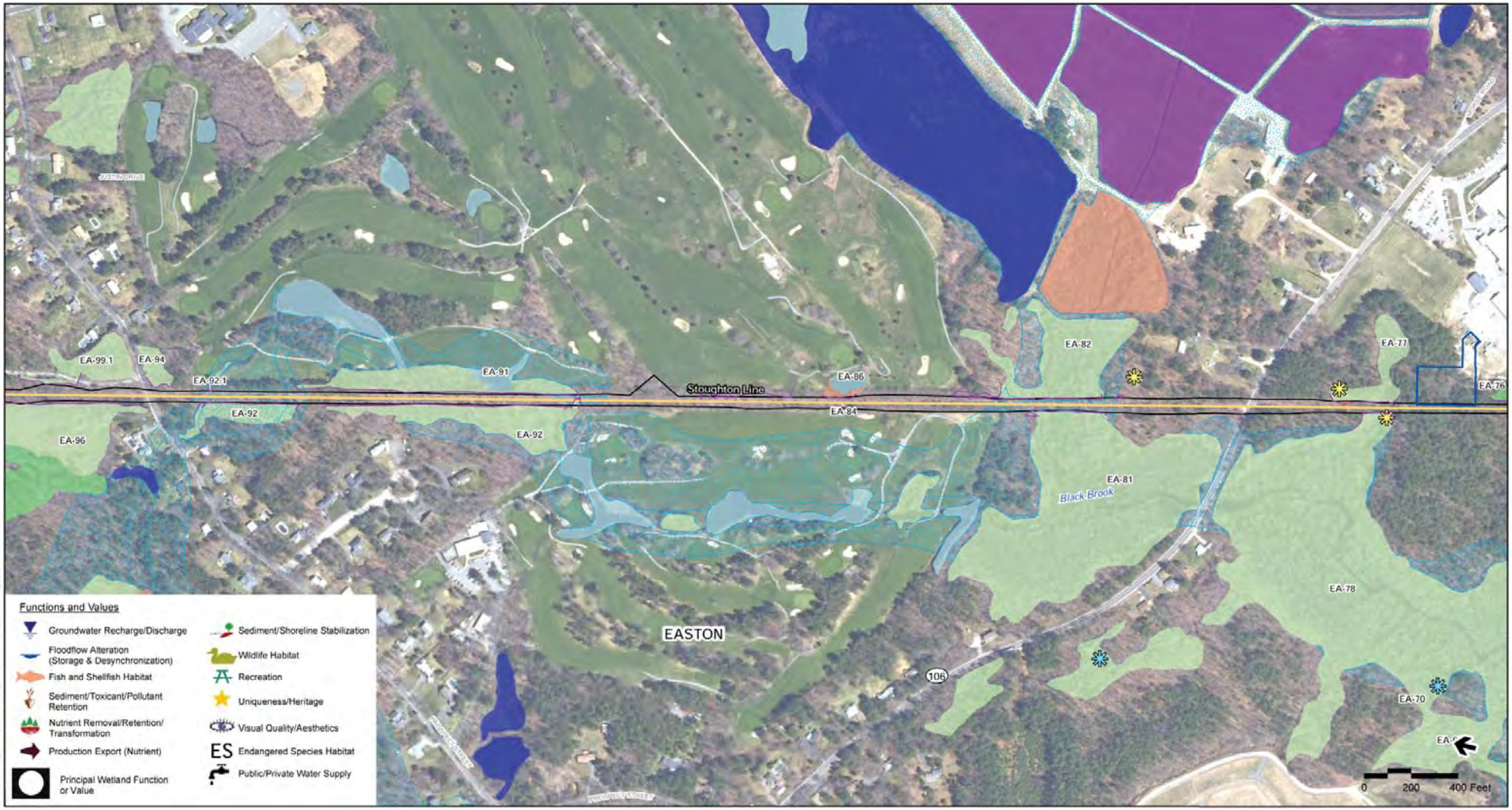


Figure 4.16-2i

Wetland Impacts
Stoughton Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
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Wetlands

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- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

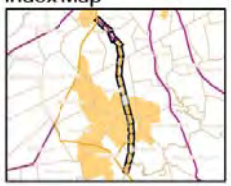
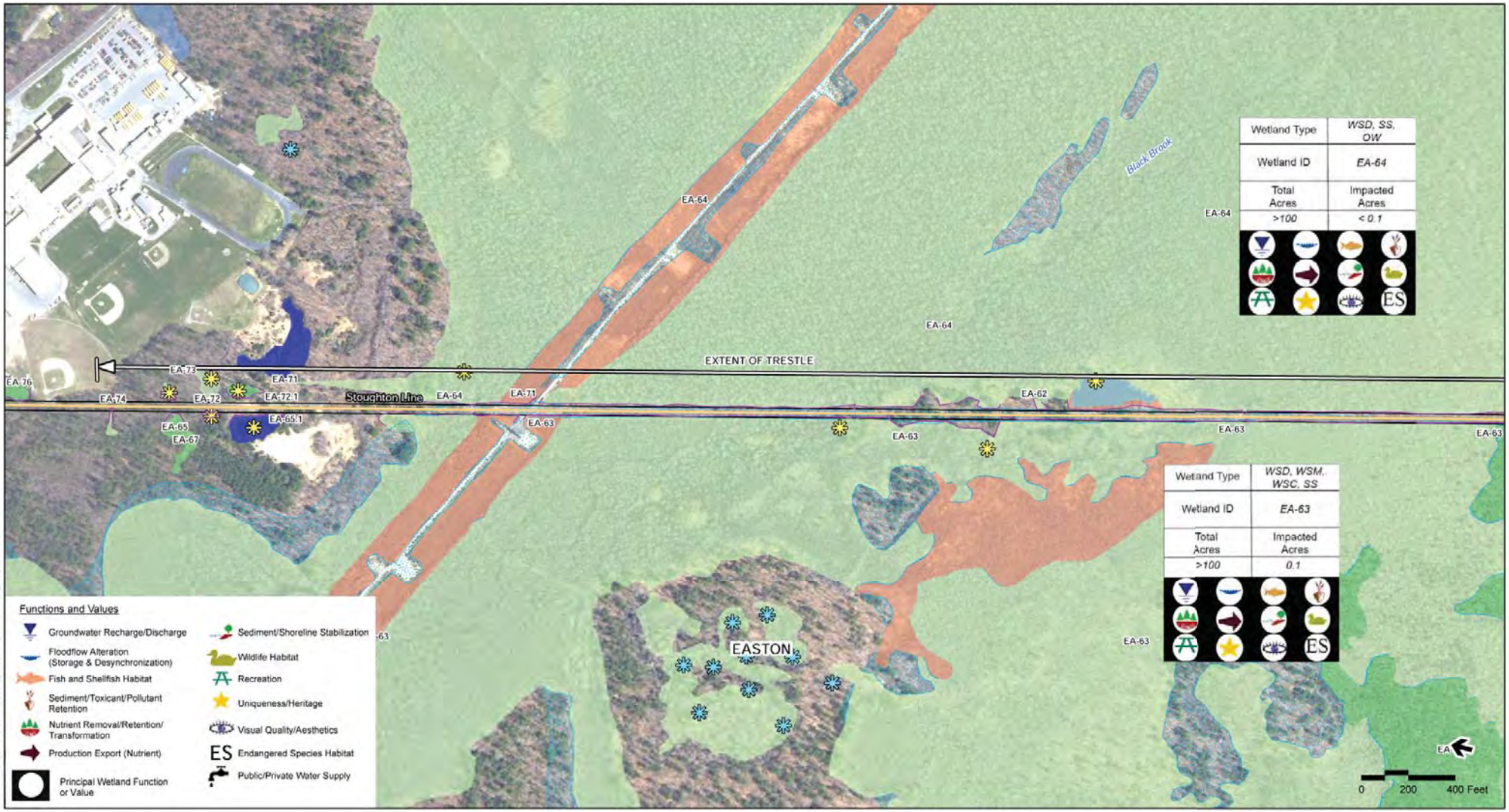


Figure 4.16-2j

Wetland Impacts
Stoughton Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
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Wetlands

- Open Water
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- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

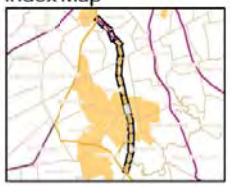
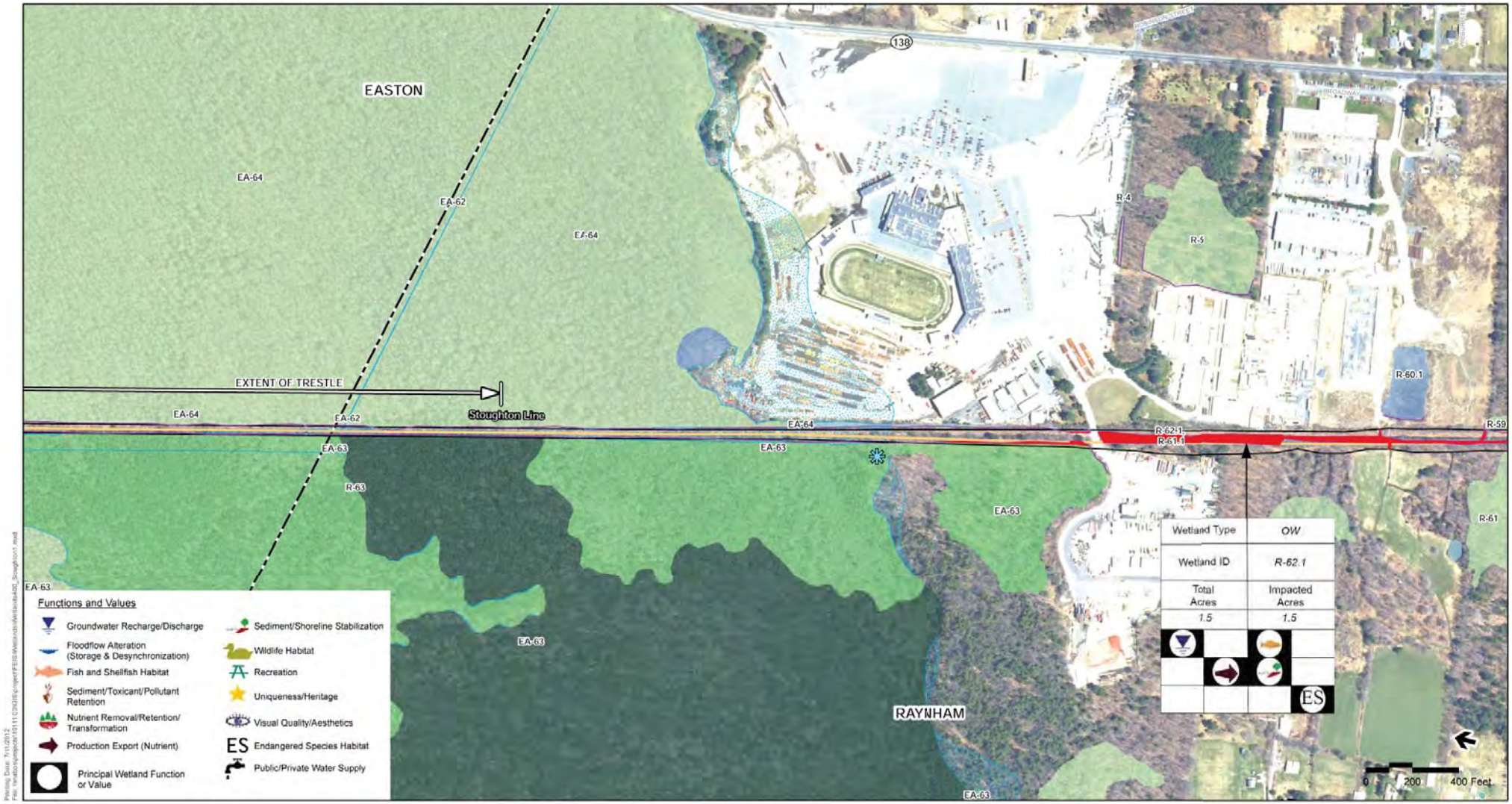


Figure 4.16-2k

Wetland Impacts
Stoughton Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
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Wetlands

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- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

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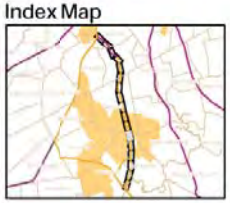
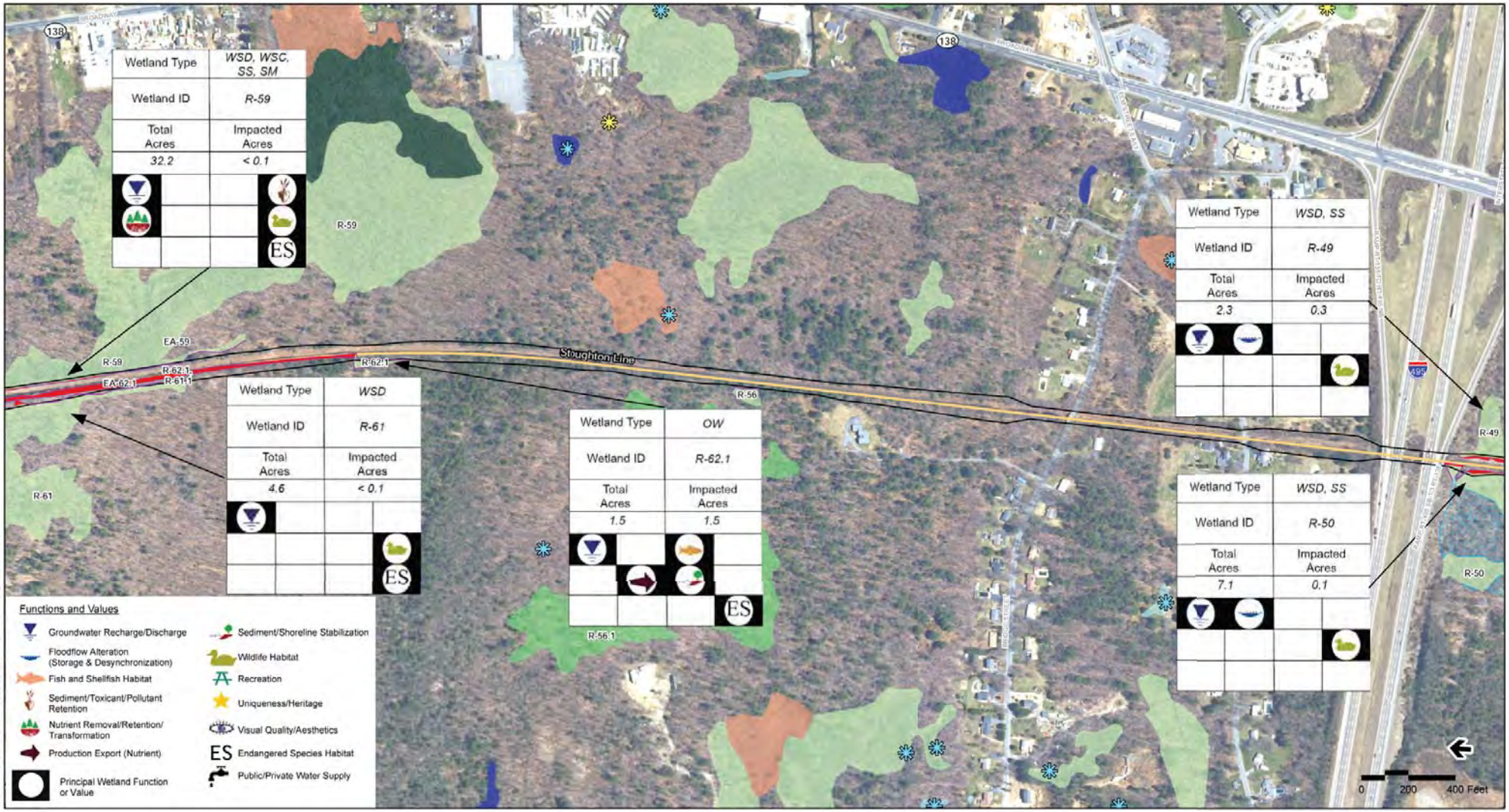


Figure 4.16-2l

Wetland Impacts
Stoughton Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
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Wetlands

- Open Water
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- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

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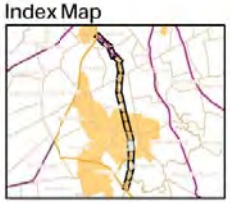
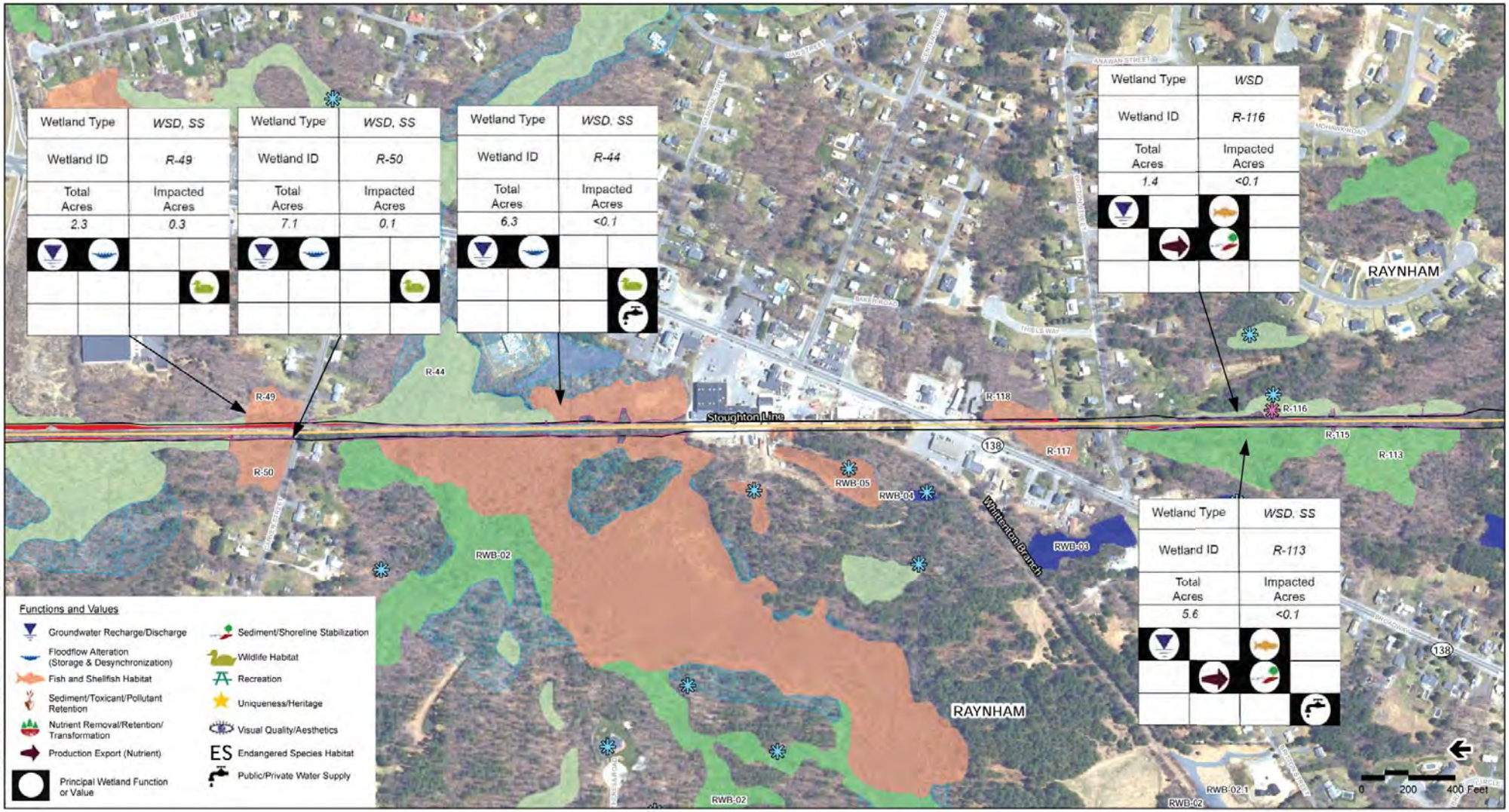


Figure 4.16-2m

Wetland Impacts
Stoughton Line



Index Map

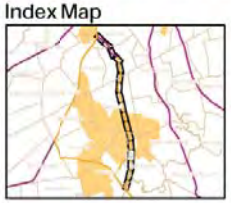


Figure 4.16-2n

Wetland Impacts
Stoughton Line

Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

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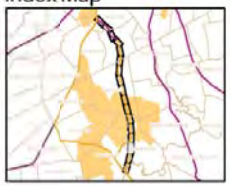

Figure 4.16-2o

Wetland Impacts
Stoughton Line

Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
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- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

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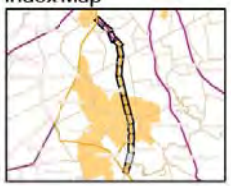
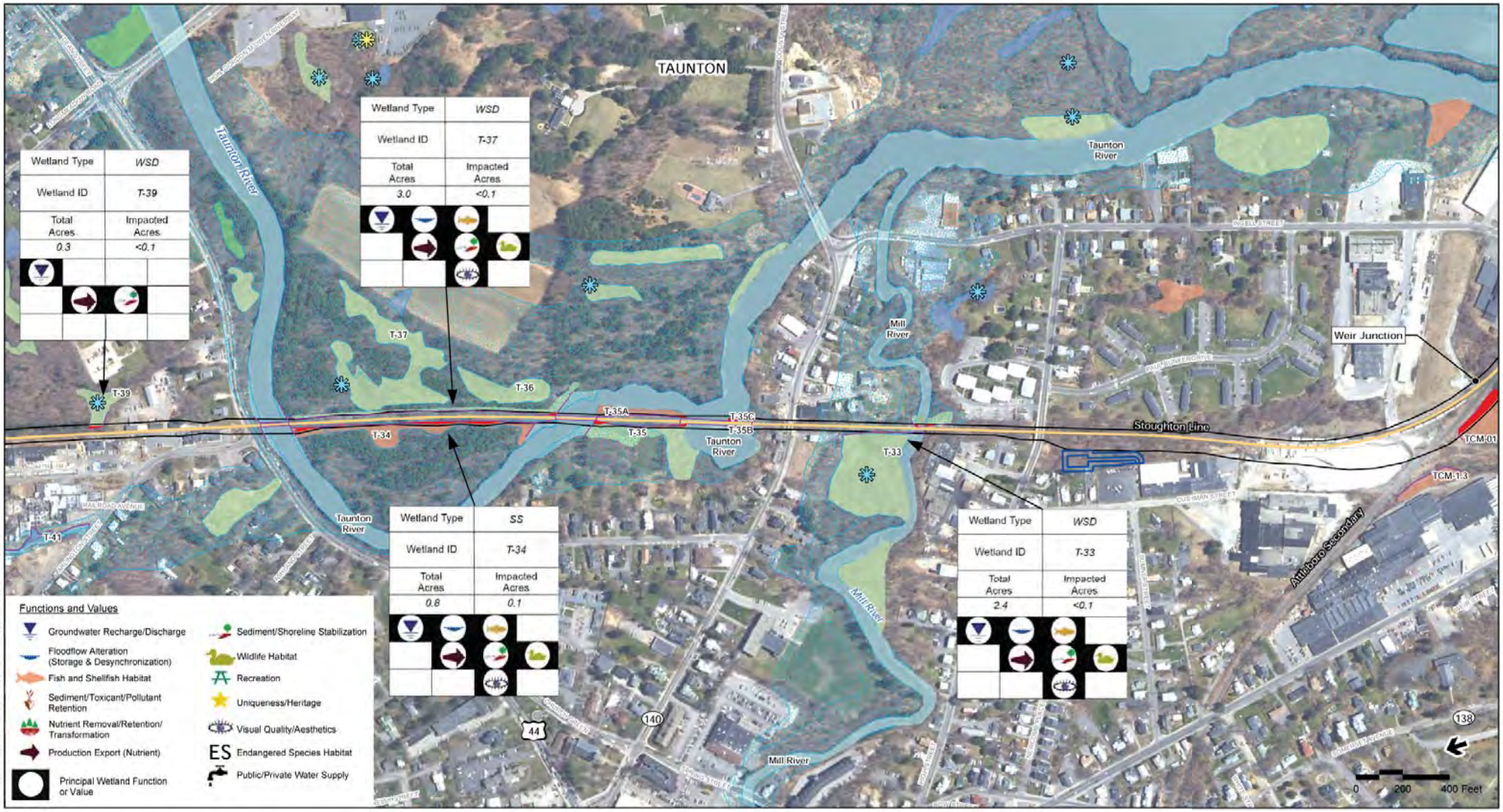


Figure 4.16-2p

Wetland Impacts
Stoughton Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
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- NHESP Potential Vernal Pools
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Wetlands

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- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
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- Wetland Delineation

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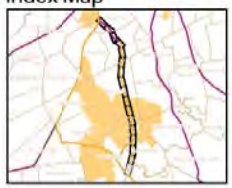
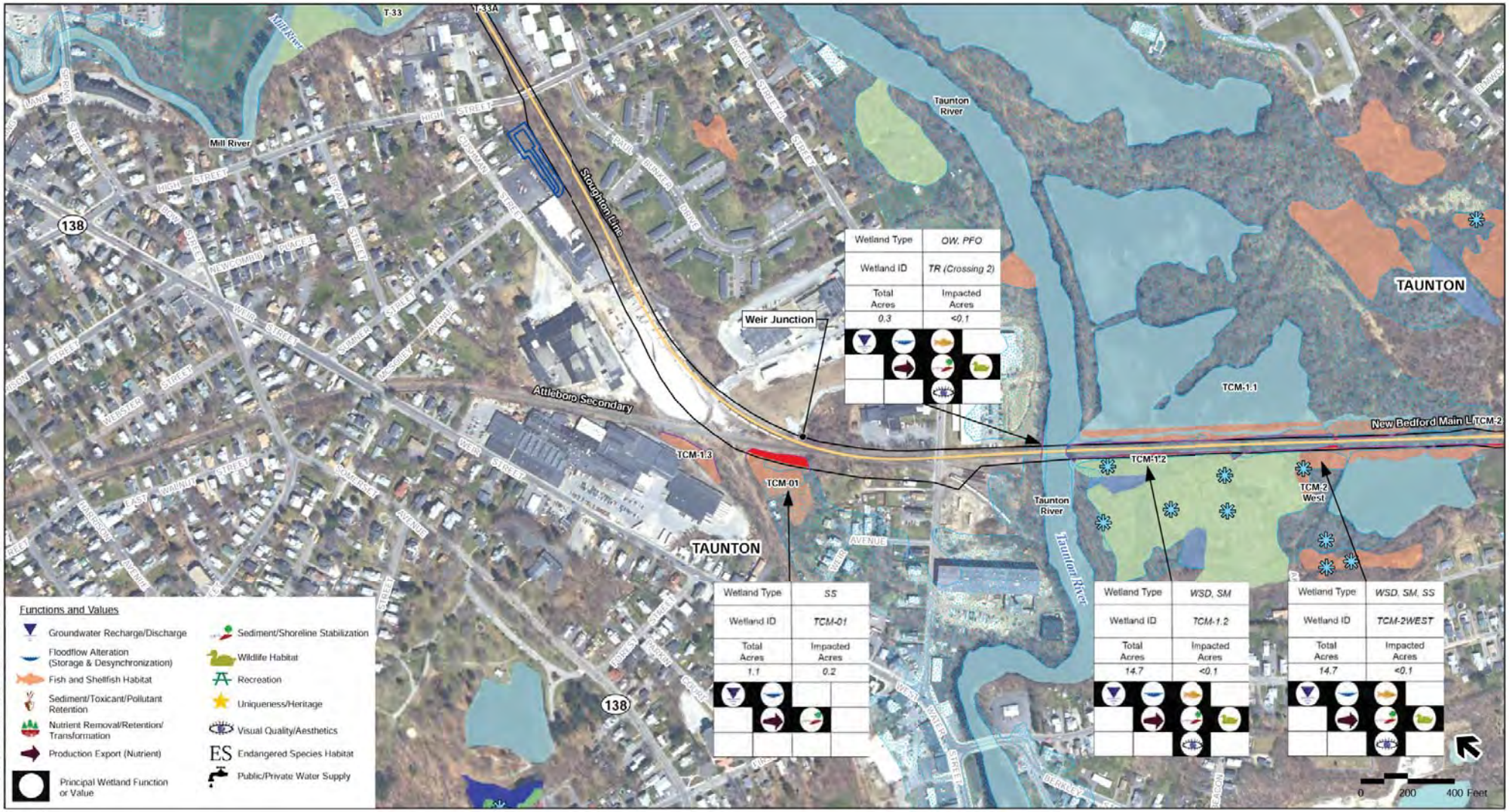


Figure 4.16-2q

Wetland Impacts
Stoughton Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
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- NHESP Potential Vernal Pools
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Wetlands

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- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

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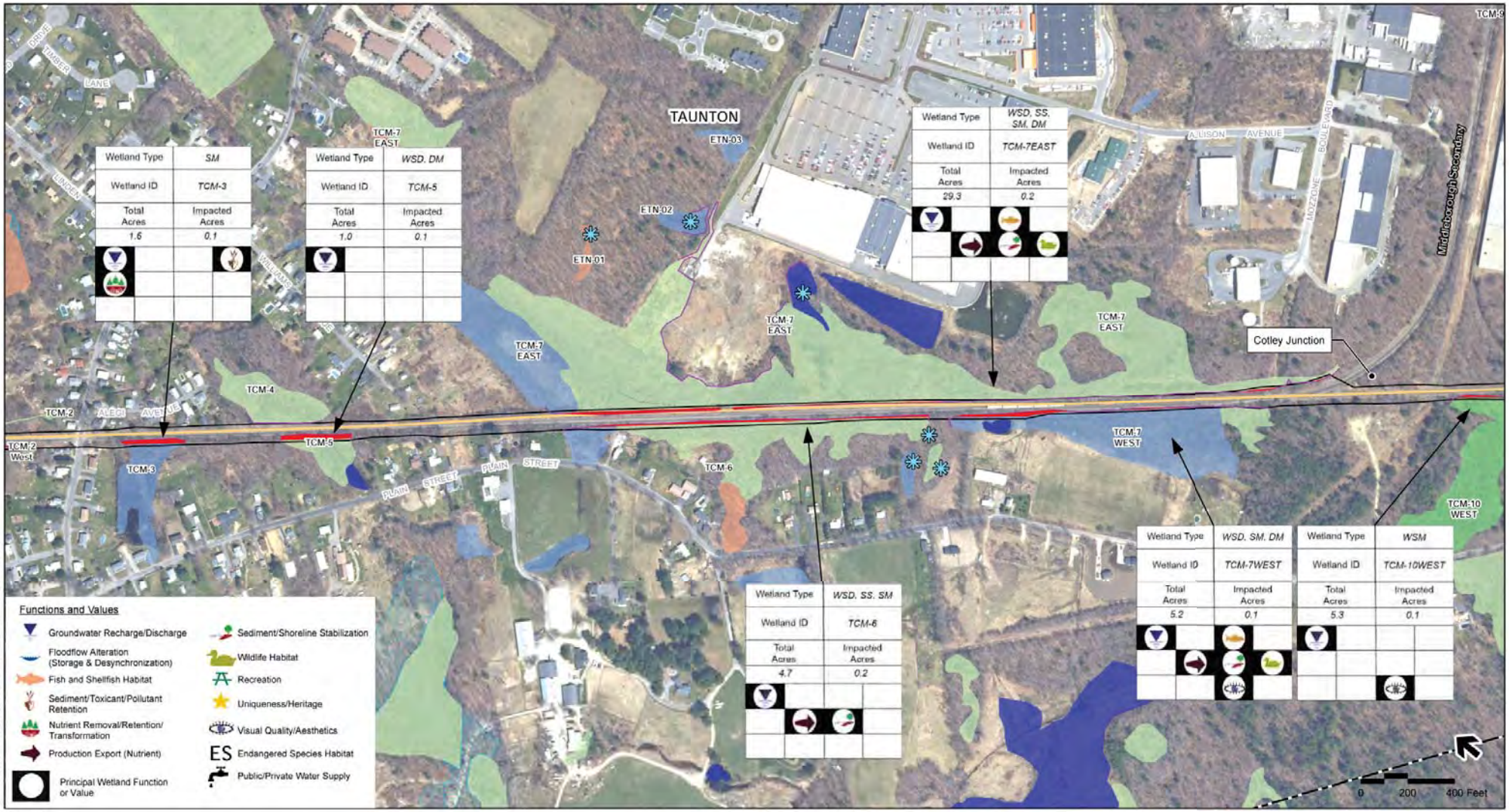
Figure 4.16-3a

Wetland Impacts
New Bedford Main Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
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Wetlands

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- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

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Figure 4.16-3b

Wetland Impacts
New Bedford Main Line

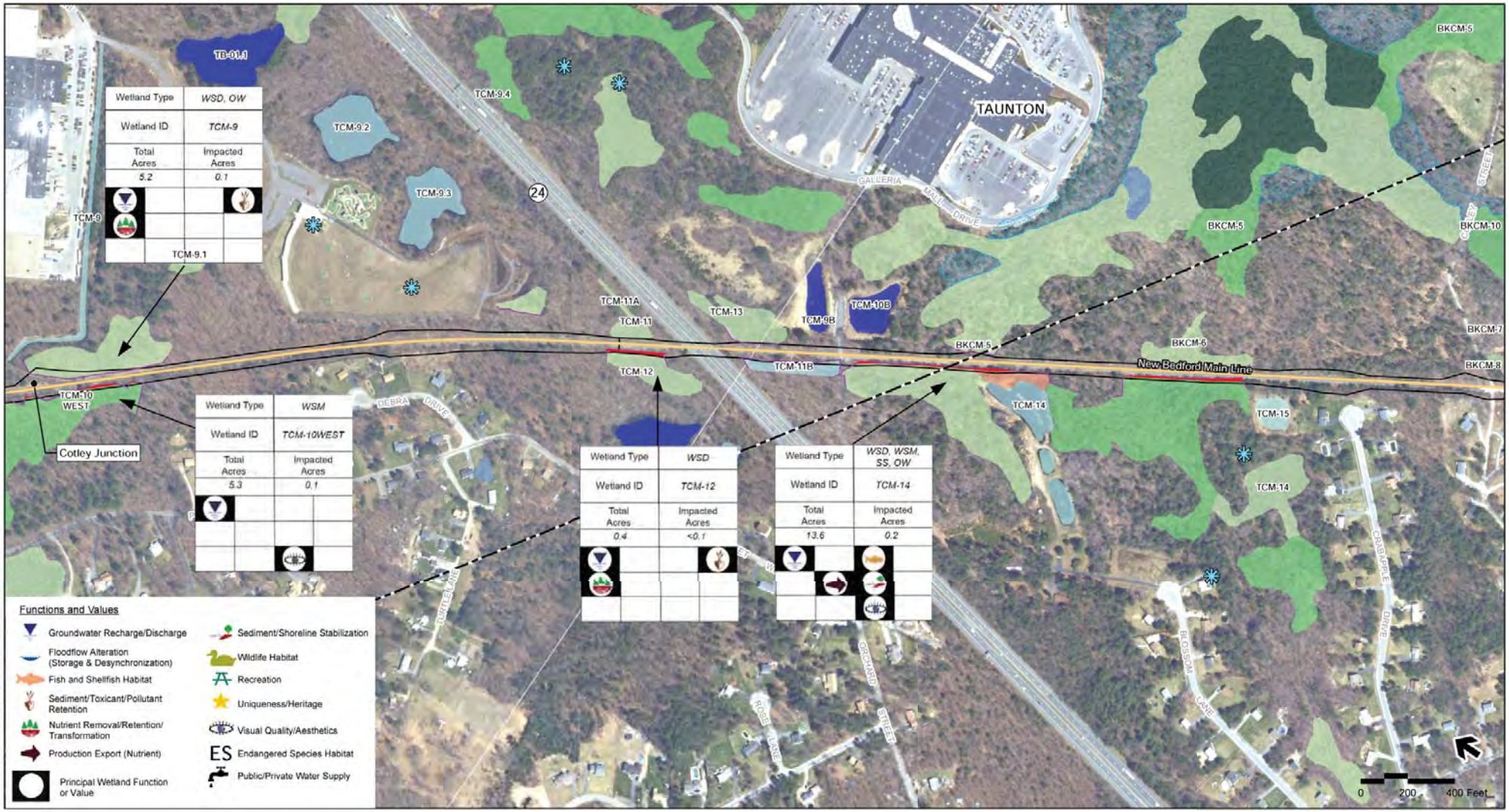
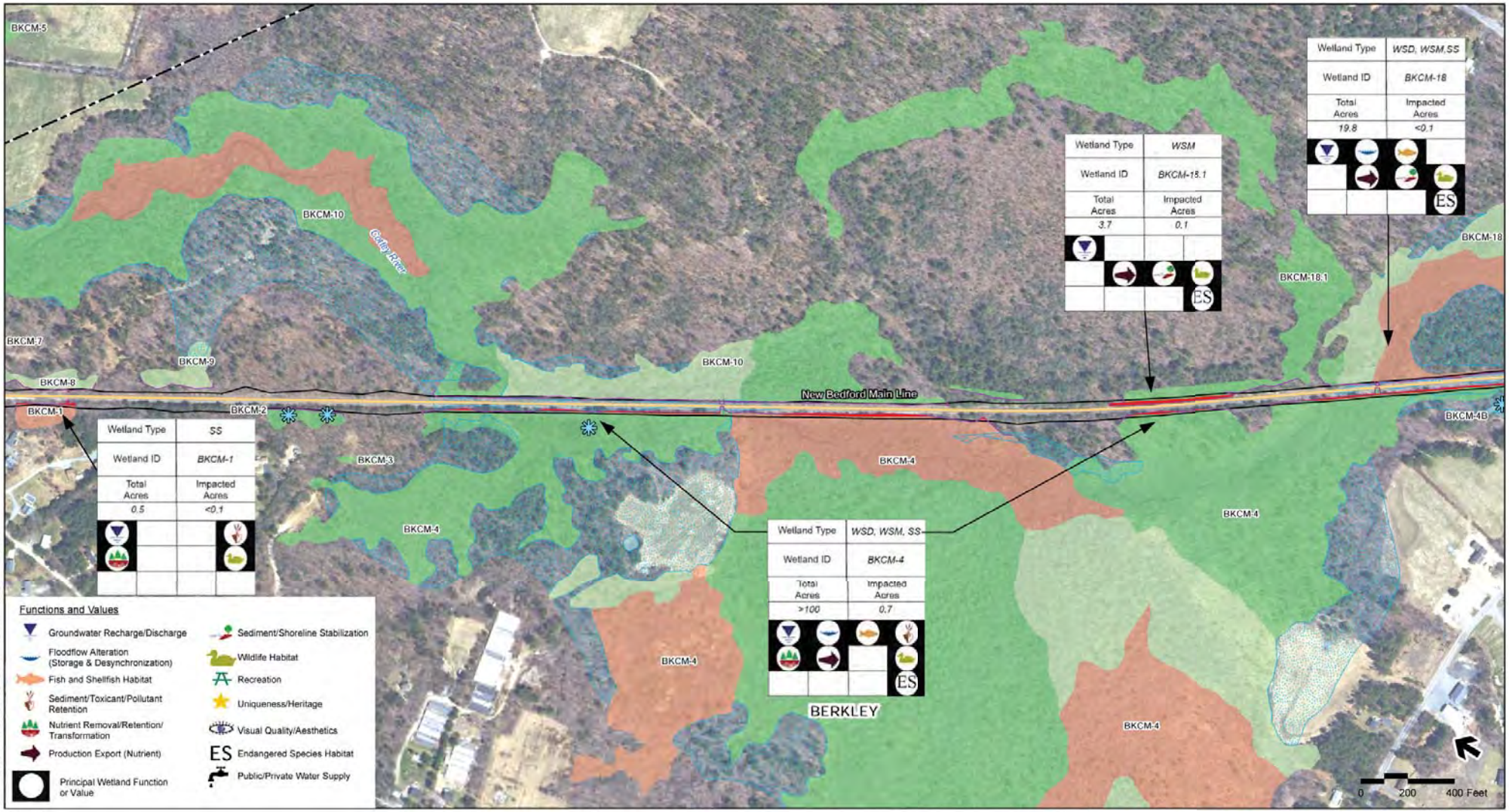


Figure 4.16-3c

Wetland Impacts
New Bedford Main Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
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Wetlands

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- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

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Figure 4.16-3d

Wetland Impacts
New Bedford Main Line

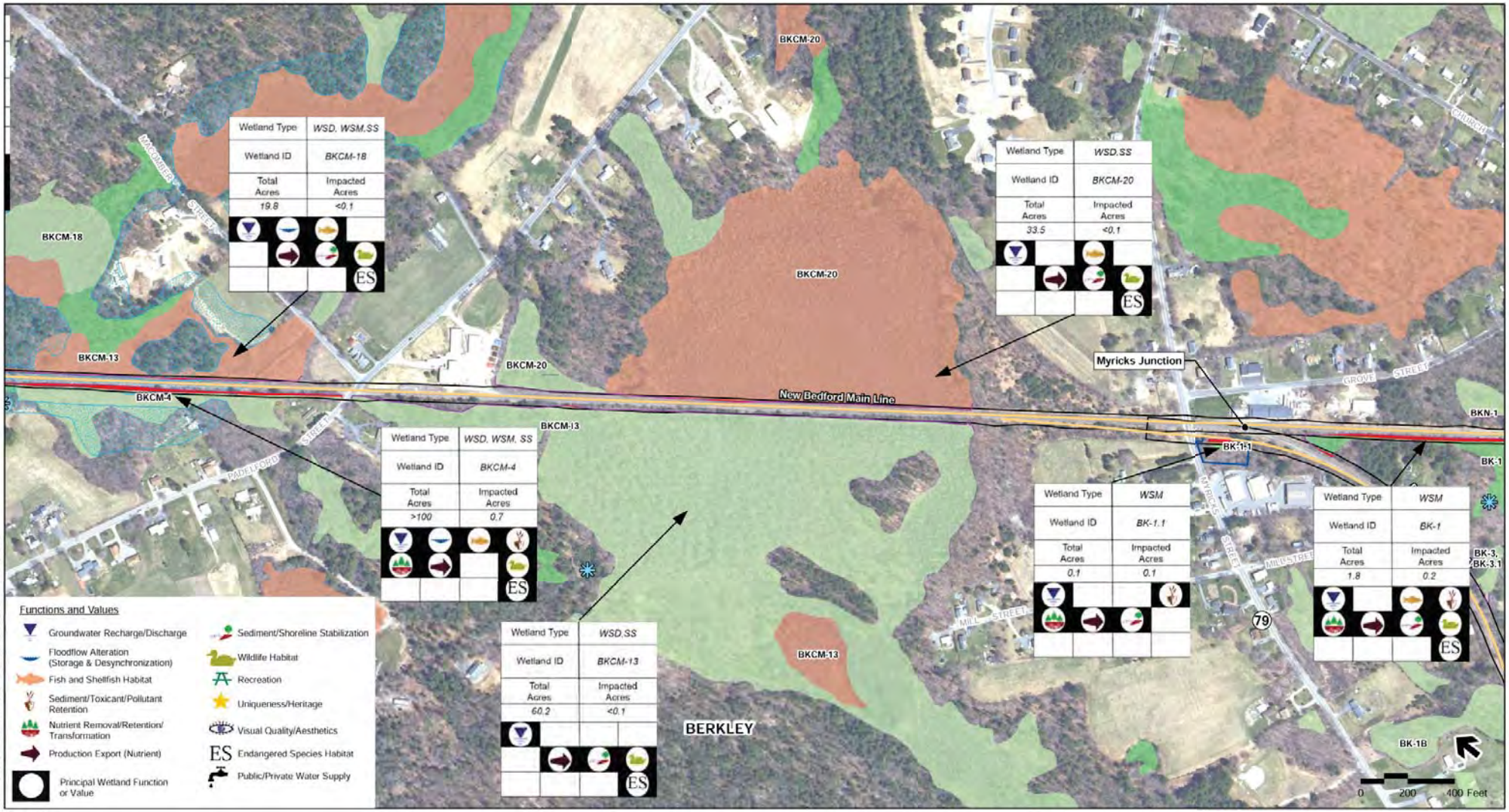
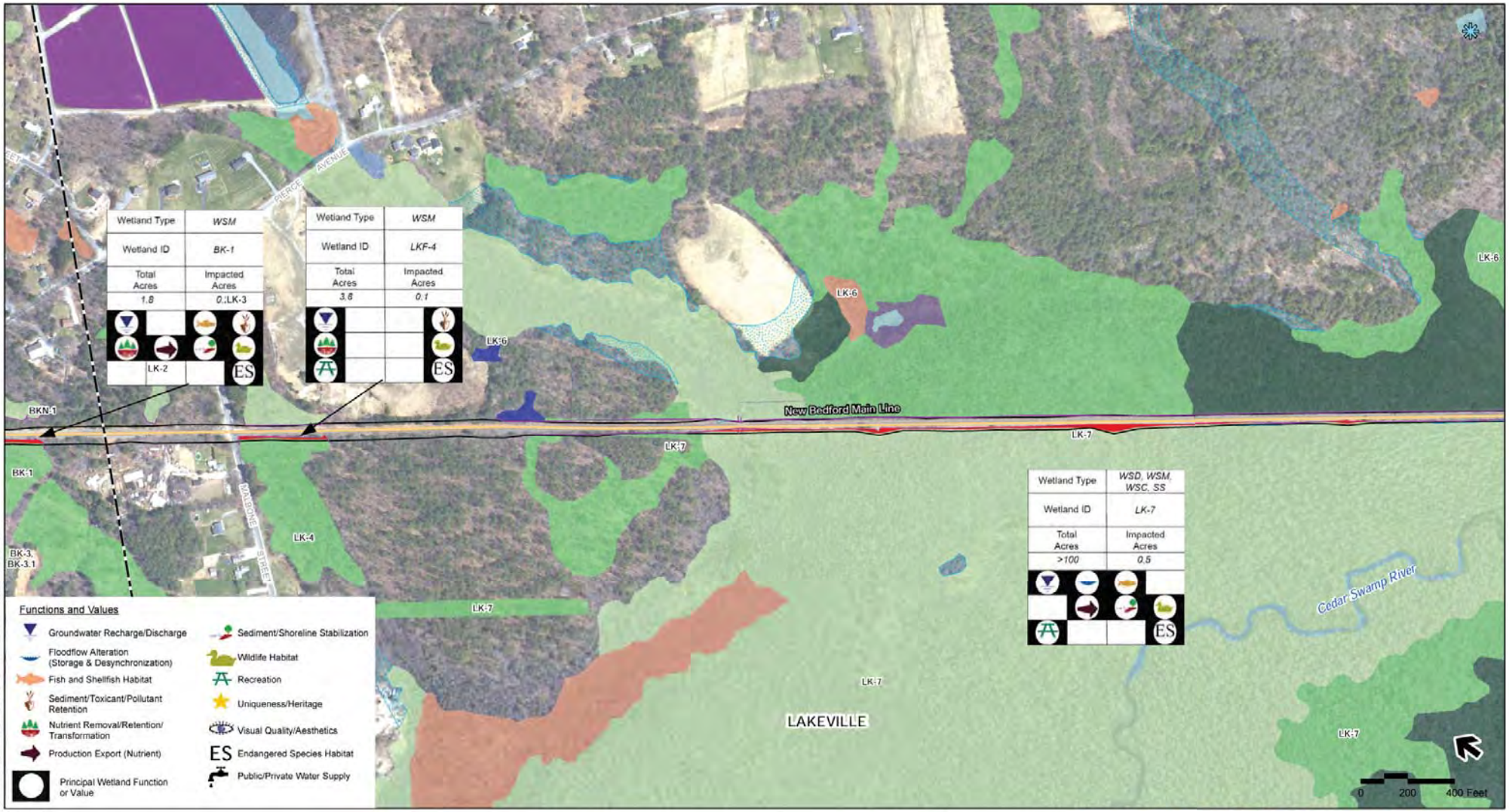


Figure 4.16-3e

Wetland Impacts
New Bedford Main Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
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Wetlands

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- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

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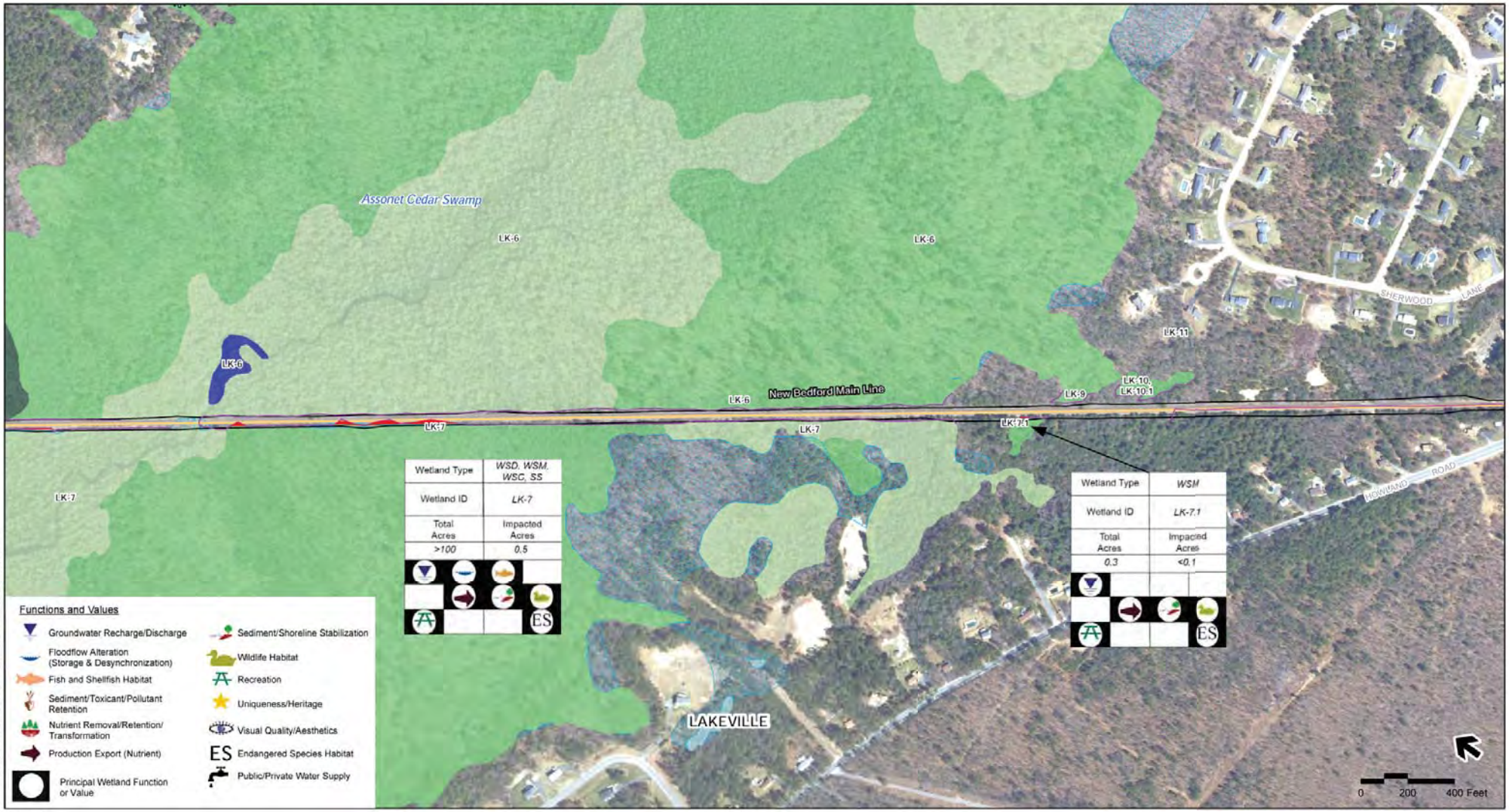
Figure 4.16-3f

Wetland Impacts
New Bedford Main Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
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- NHESP Potential Vernal Pools
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Wetlands

- Open Water
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- Cranberry Bog
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- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

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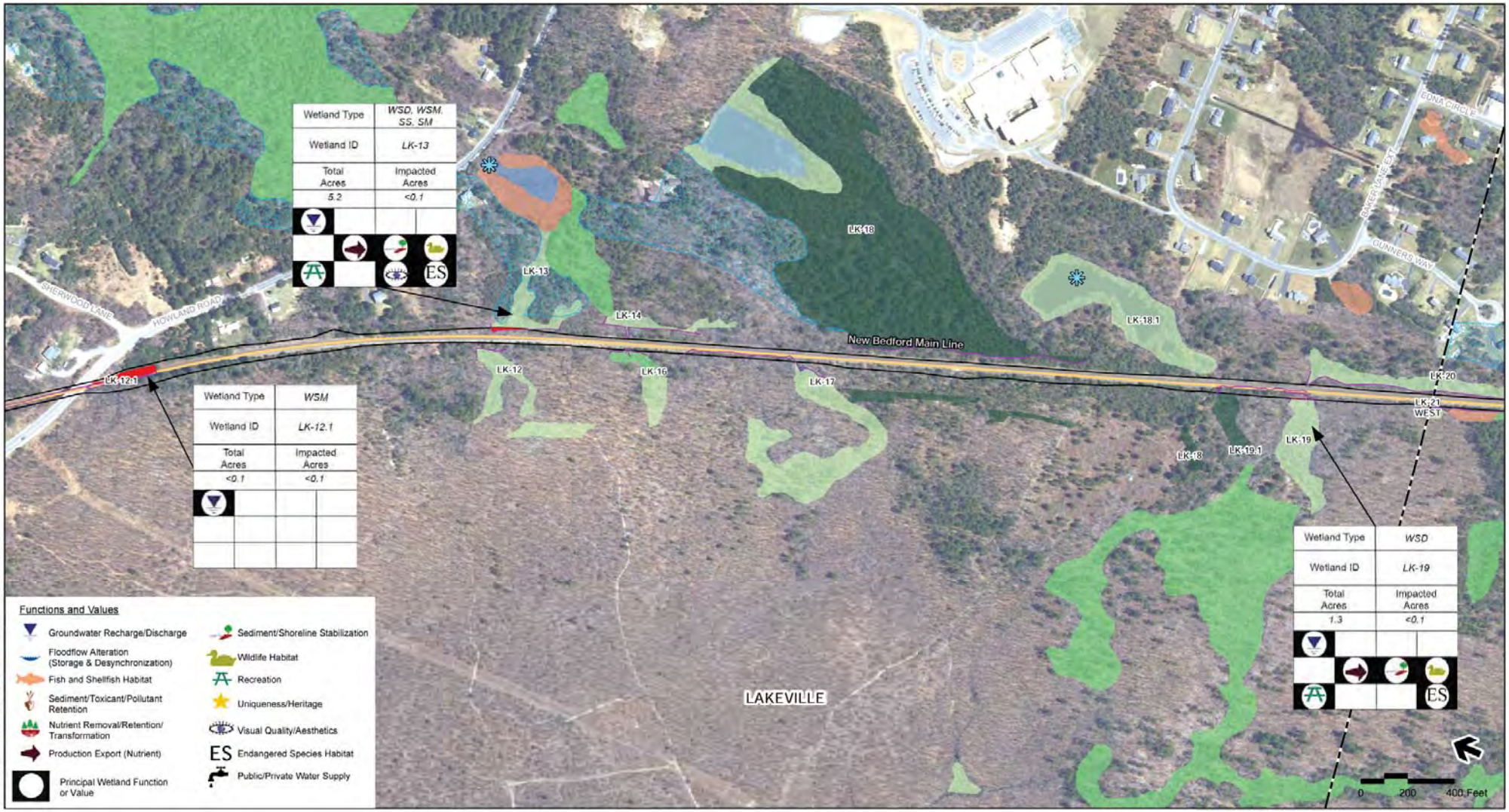
Figure 4.16-3g

Wetland Impacts
New Bedford Main Line



Index Map

Figure 4.16-3h

Wetland Impacts
New Bedford Main Line

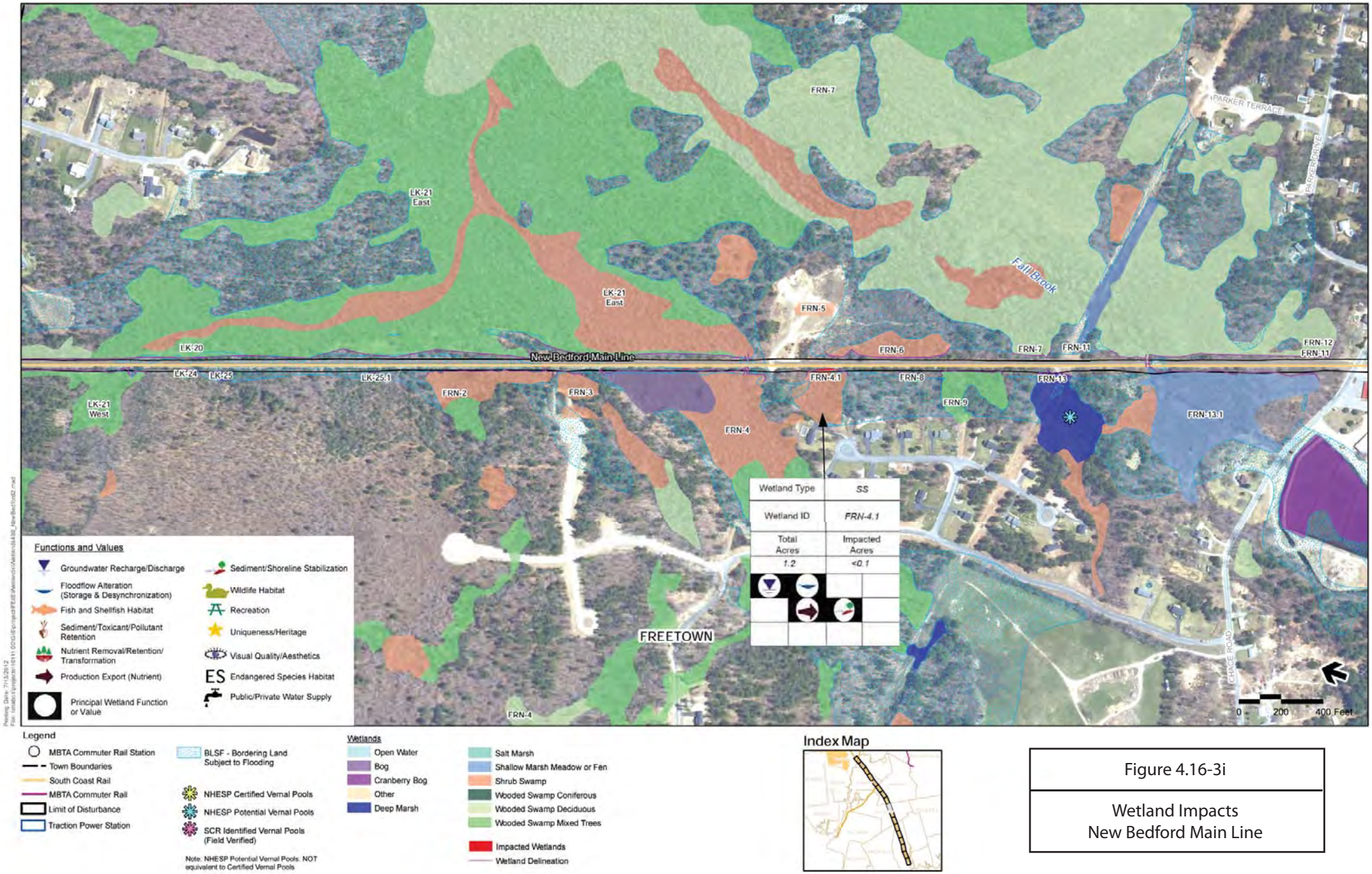
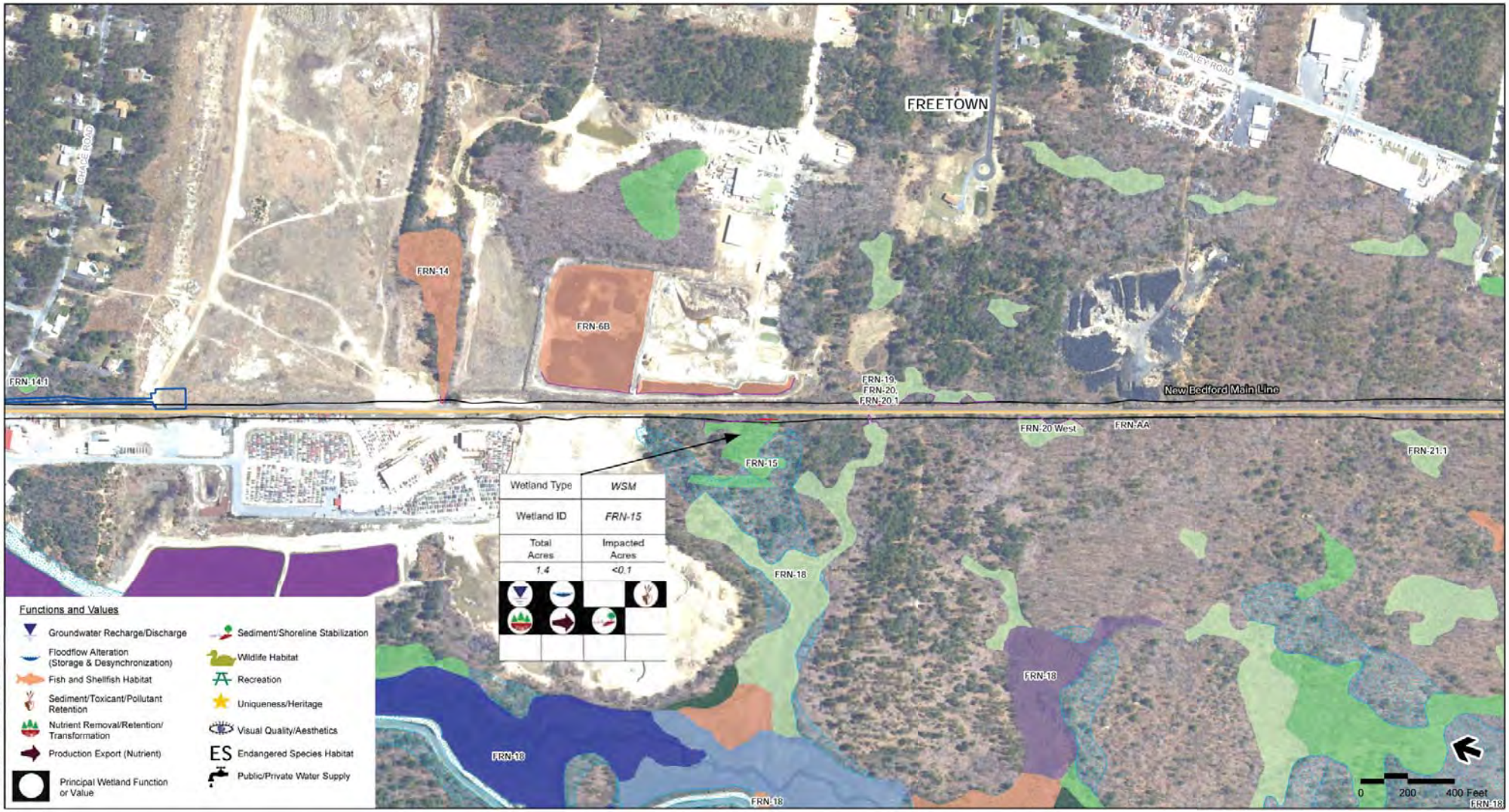


Figure 4.16-3i

Wetland Impacts
New Bedford Main Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

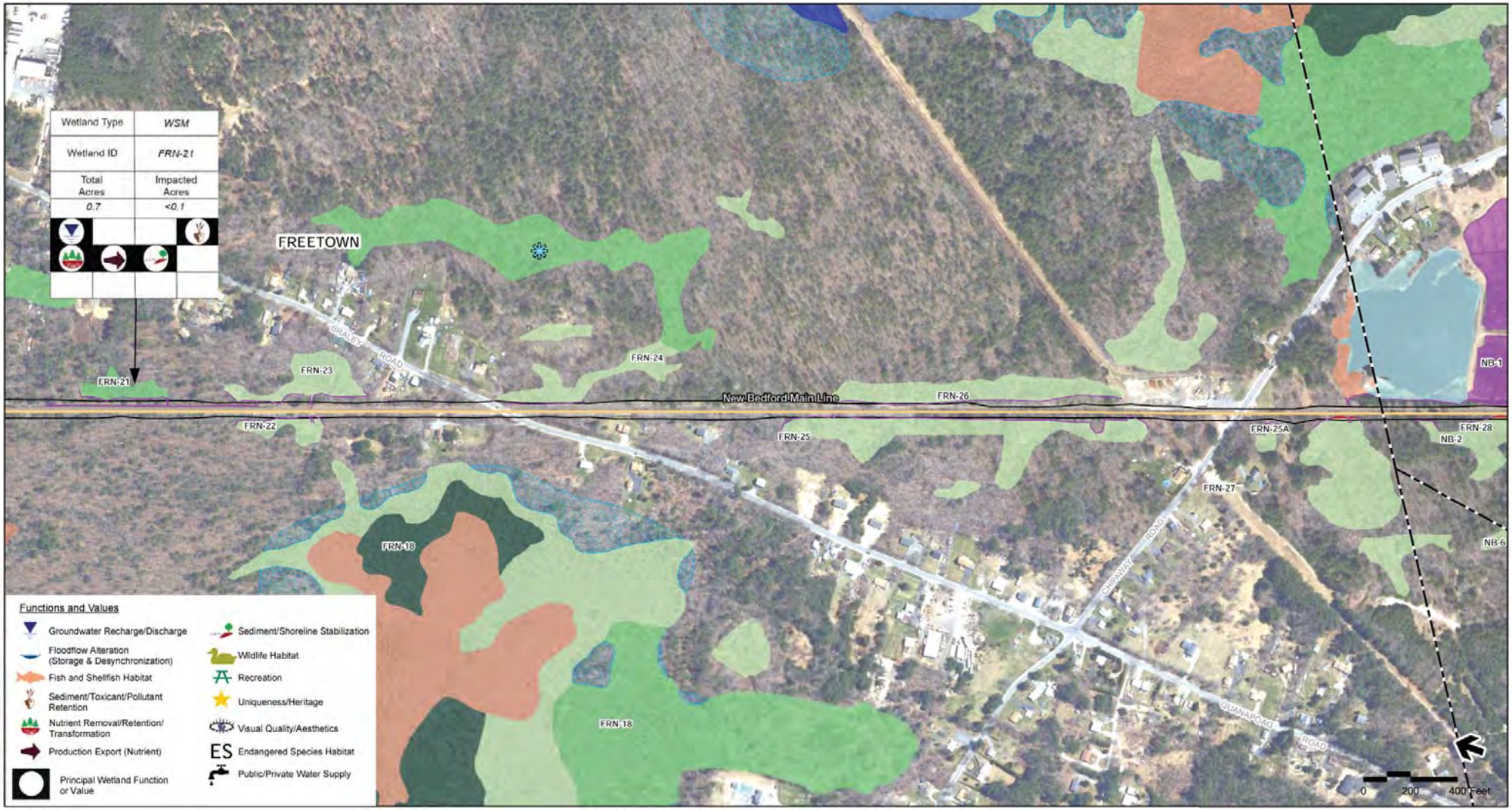
Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

Figure 4.16-3j

Wetland Impacts
New Bedford Main Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

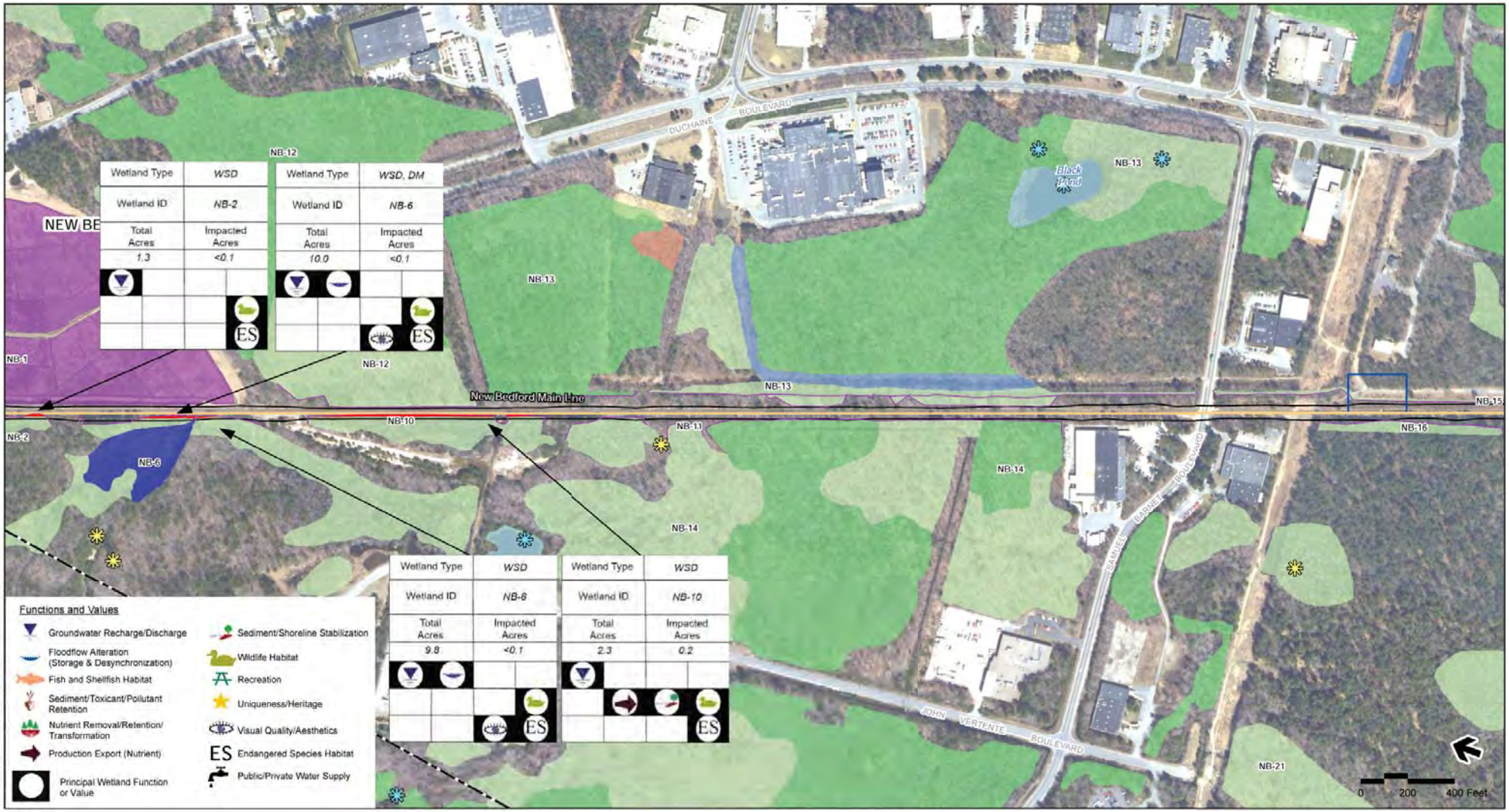
Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

Figure 4.16-3k

Wetland Impacts
New Bedford Main Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools. NOT equivalent to Certified Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

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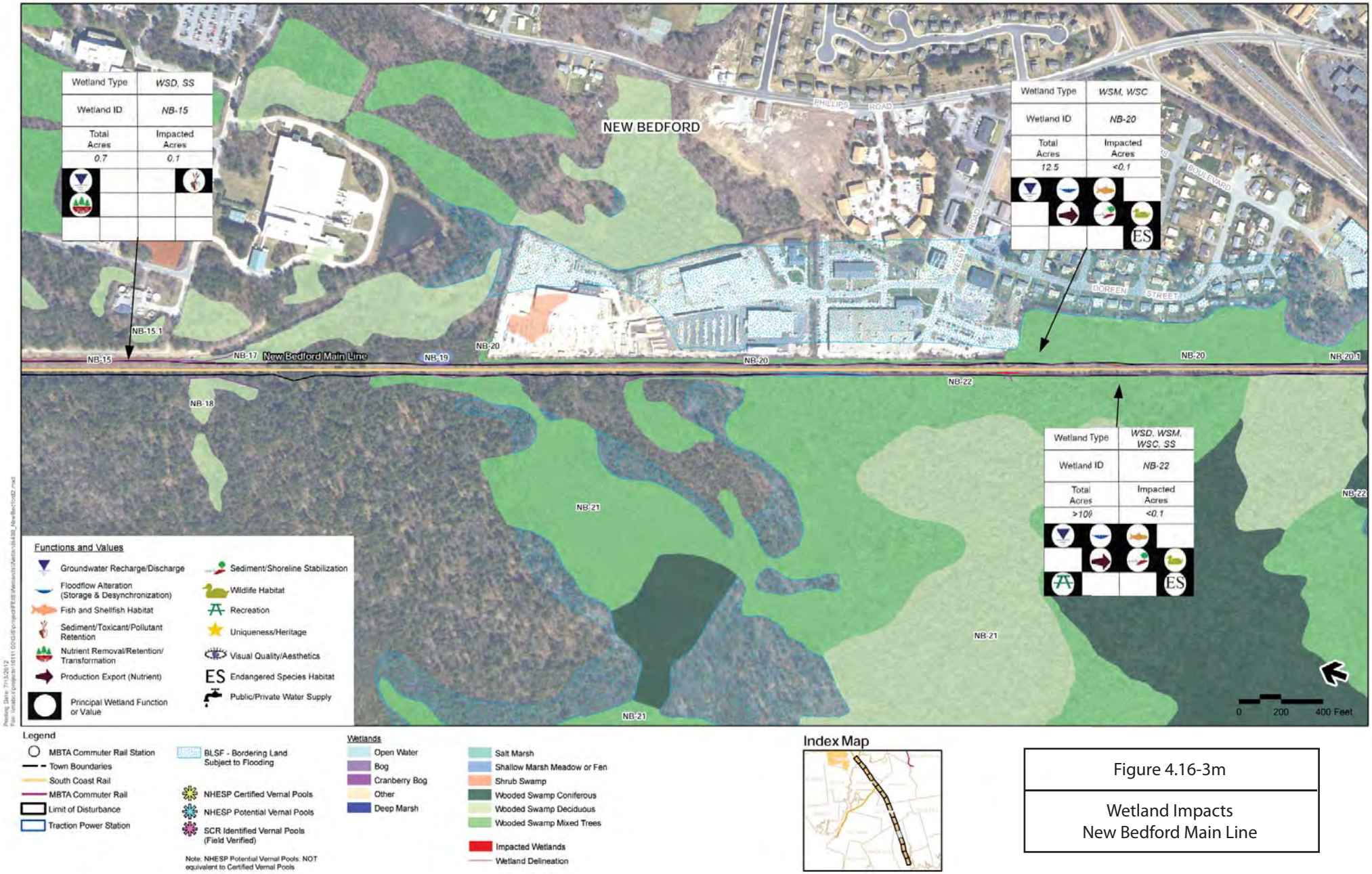
Figure 4.16-3l

Wetland Impacts
New Bedford Main Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

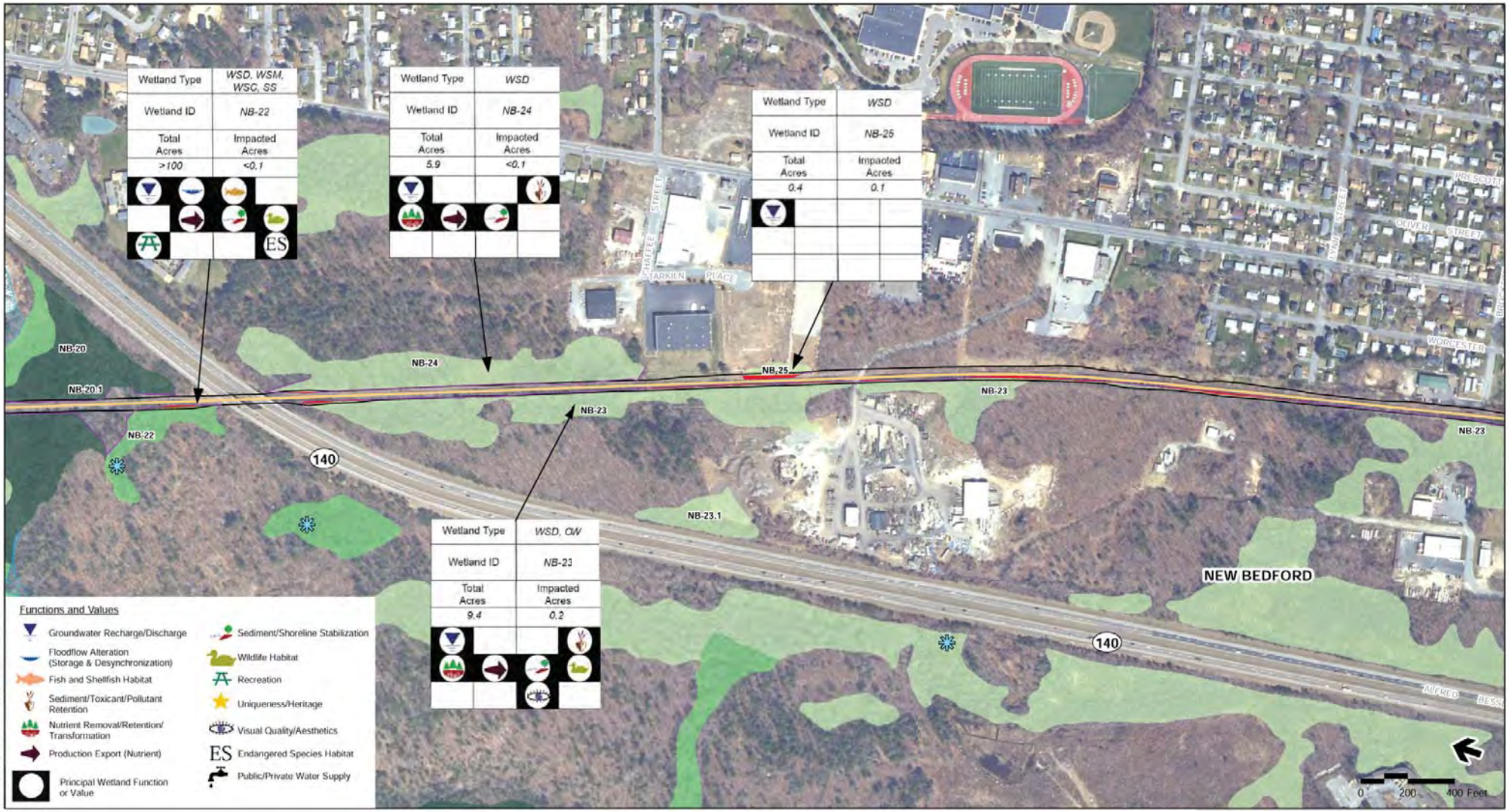
Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

Figure 4.16-3m

Wetland Impacts
New Bedford Main Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

Figure 4.16-3n

Wetland Impacts
New Bedford Main Line

Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools. NOT equivalent to Certified Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

Figure 4.16-3o

Wetland Impacts
New Bedford Main Line

Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools. NOT equivalent to Certified Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

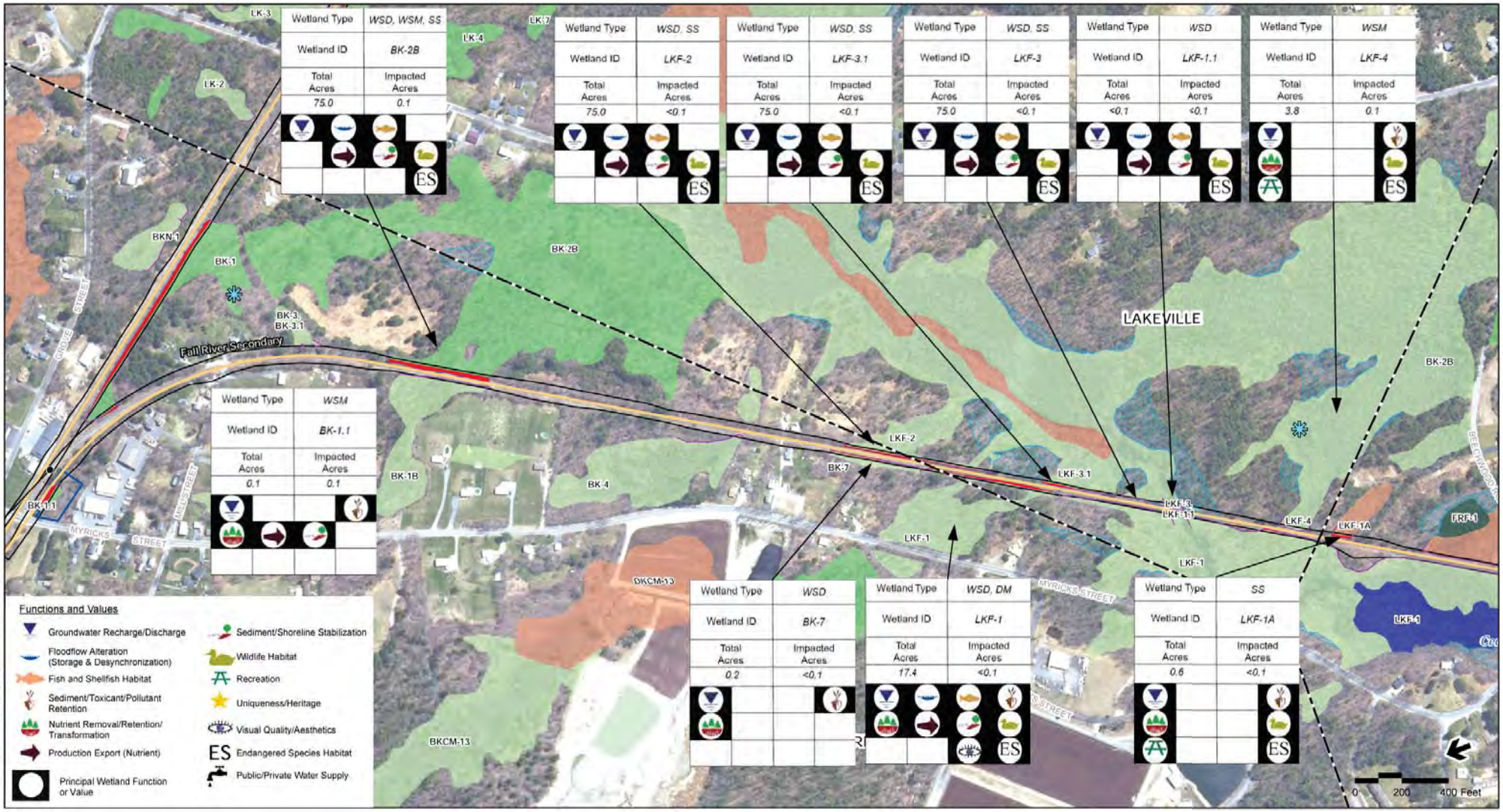
Index Map

Figure 4.16-3p

Wetland Impacts
New Bedford Main Line

Figure 4.16-3q

Wetland Impacts
New Bedford Main Line



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

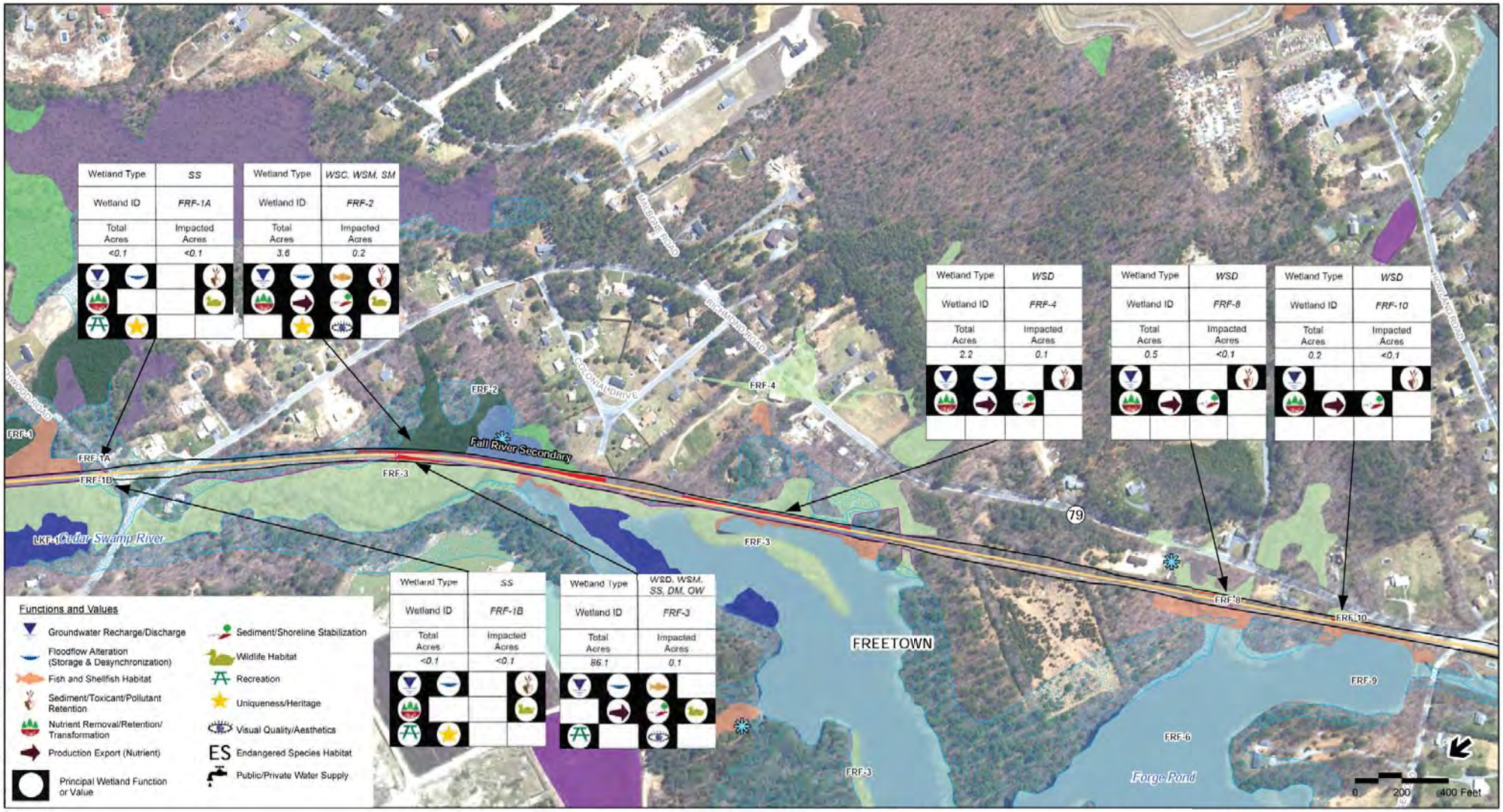
Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

Figure 4.16-4a

Wetland Impacts
Fall River Secondary



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

Figure 4.16-4b

Wetland Impacts
Fall River Secondary

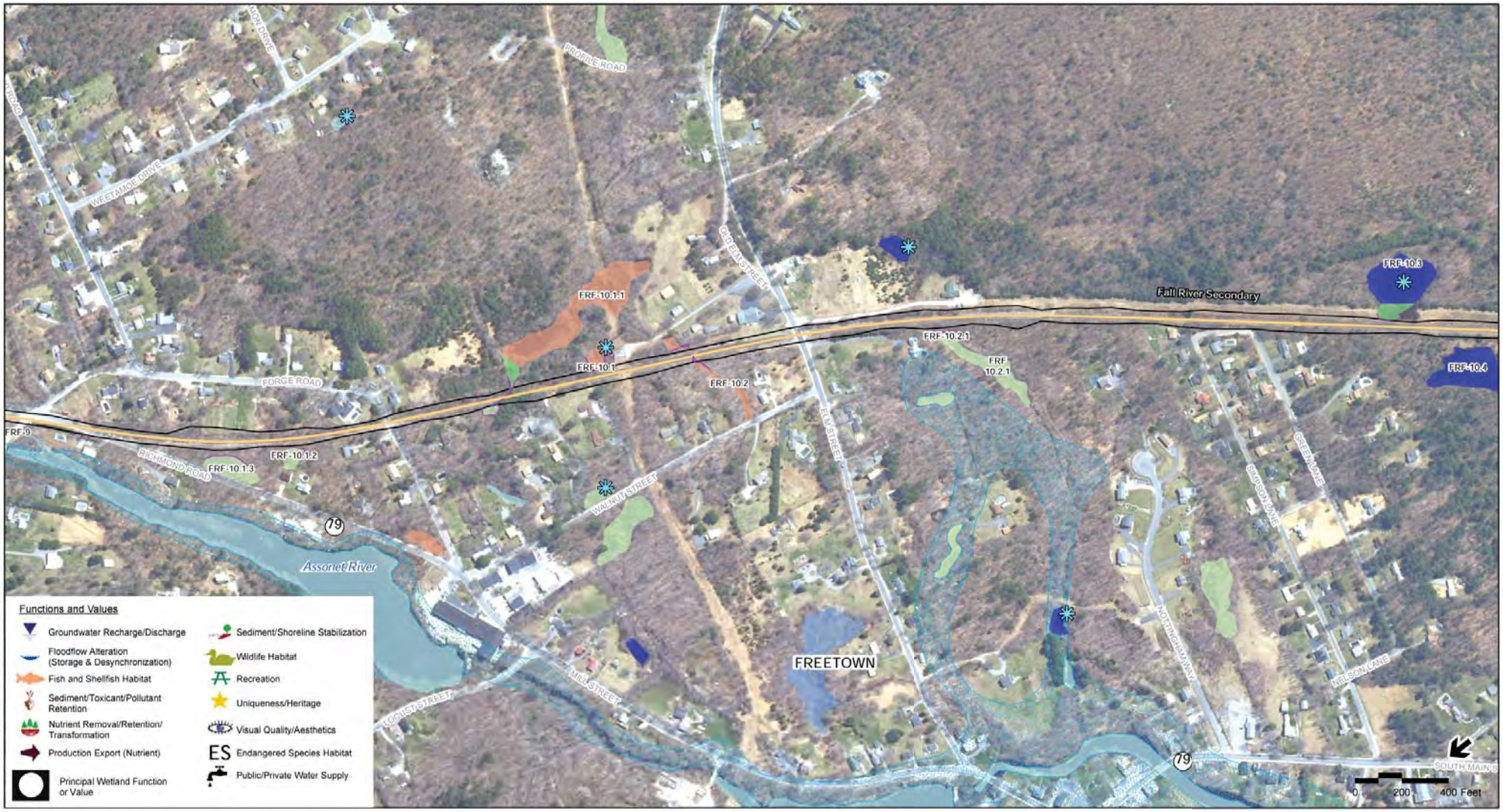
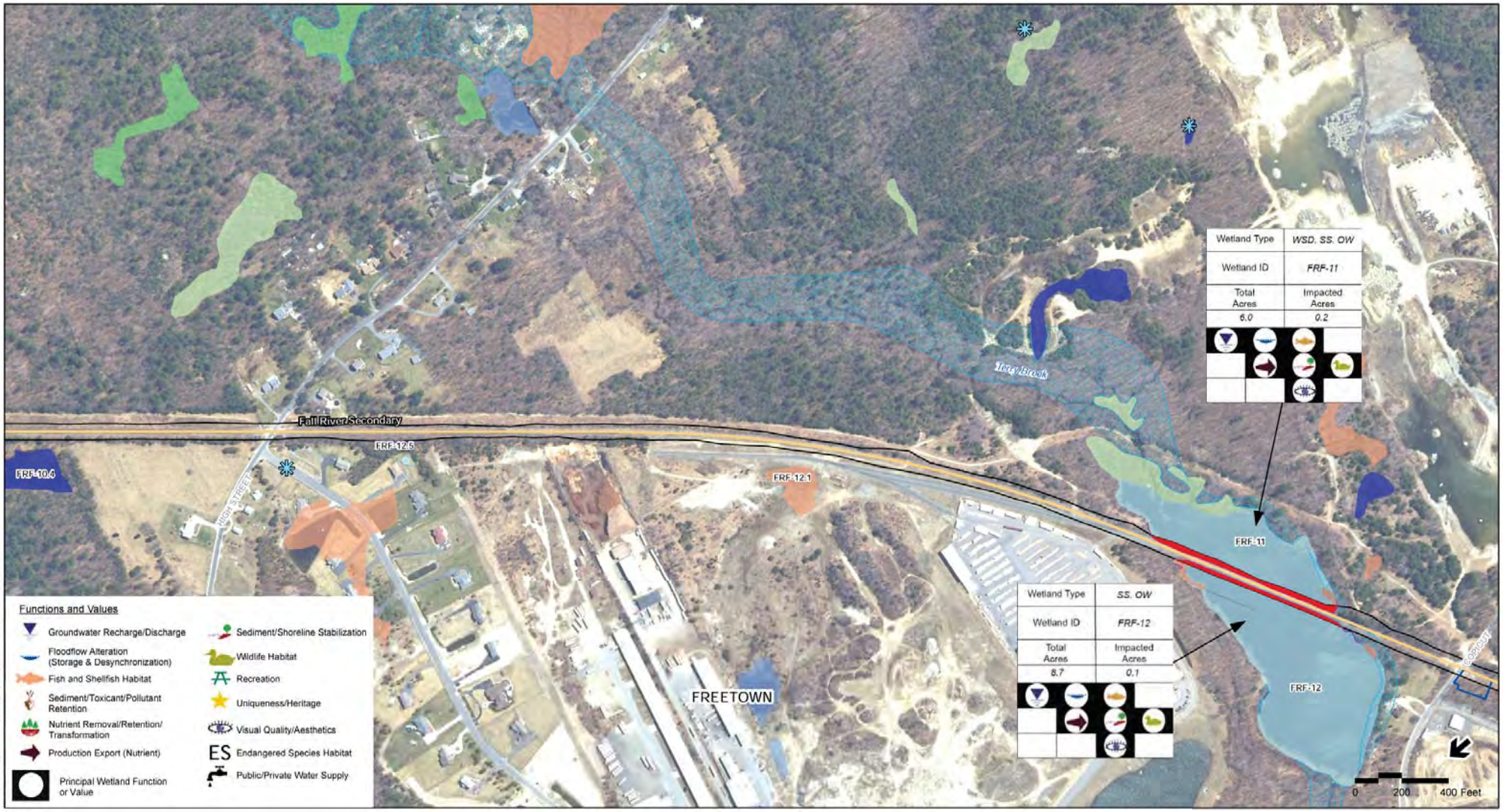


Figure 4.16-4c

Wetland Impacts
Fall River Secondary



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

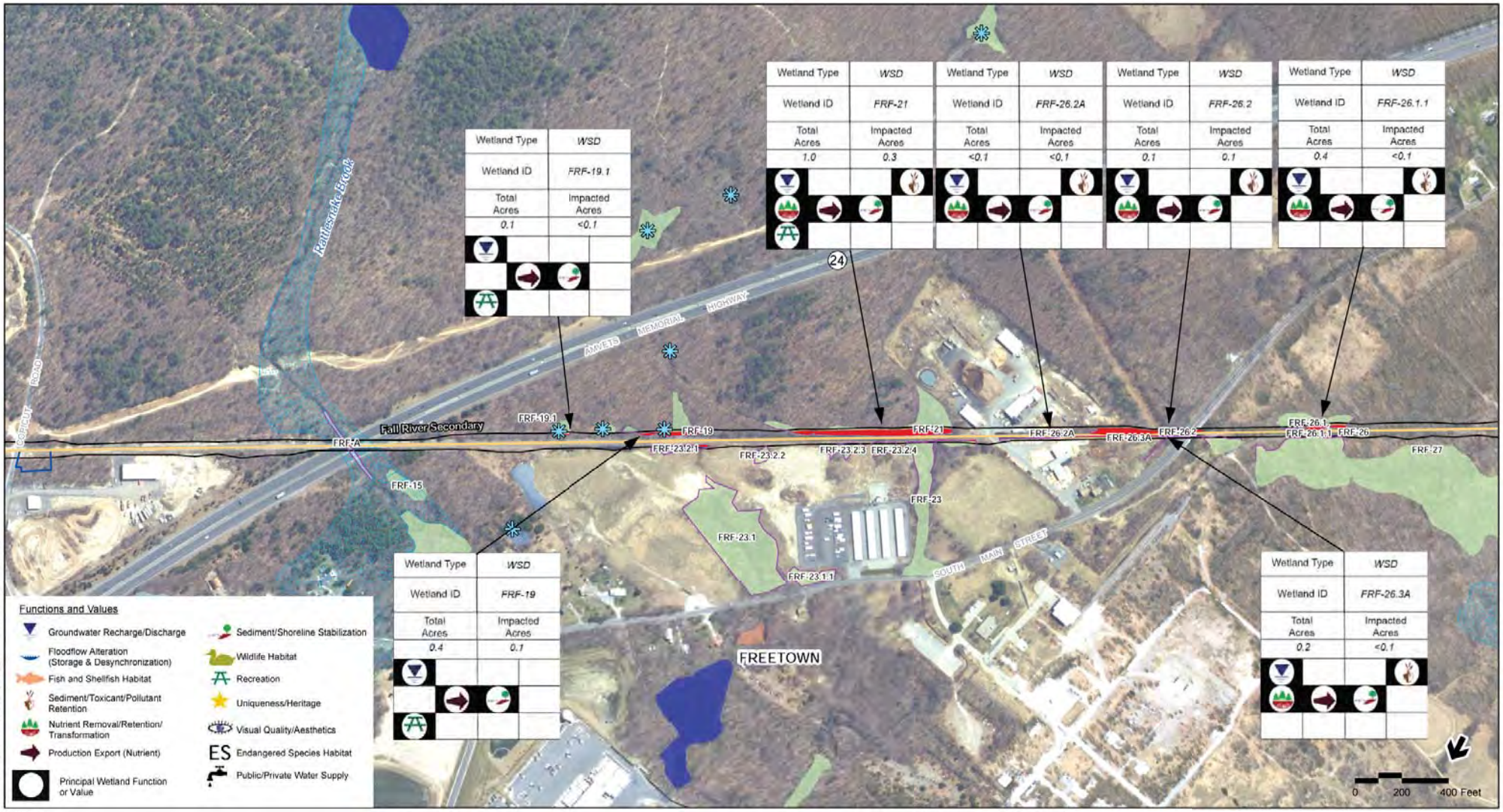
Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

Figure 4.16-4d

Wetland Impacts
Fall River Secondary



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

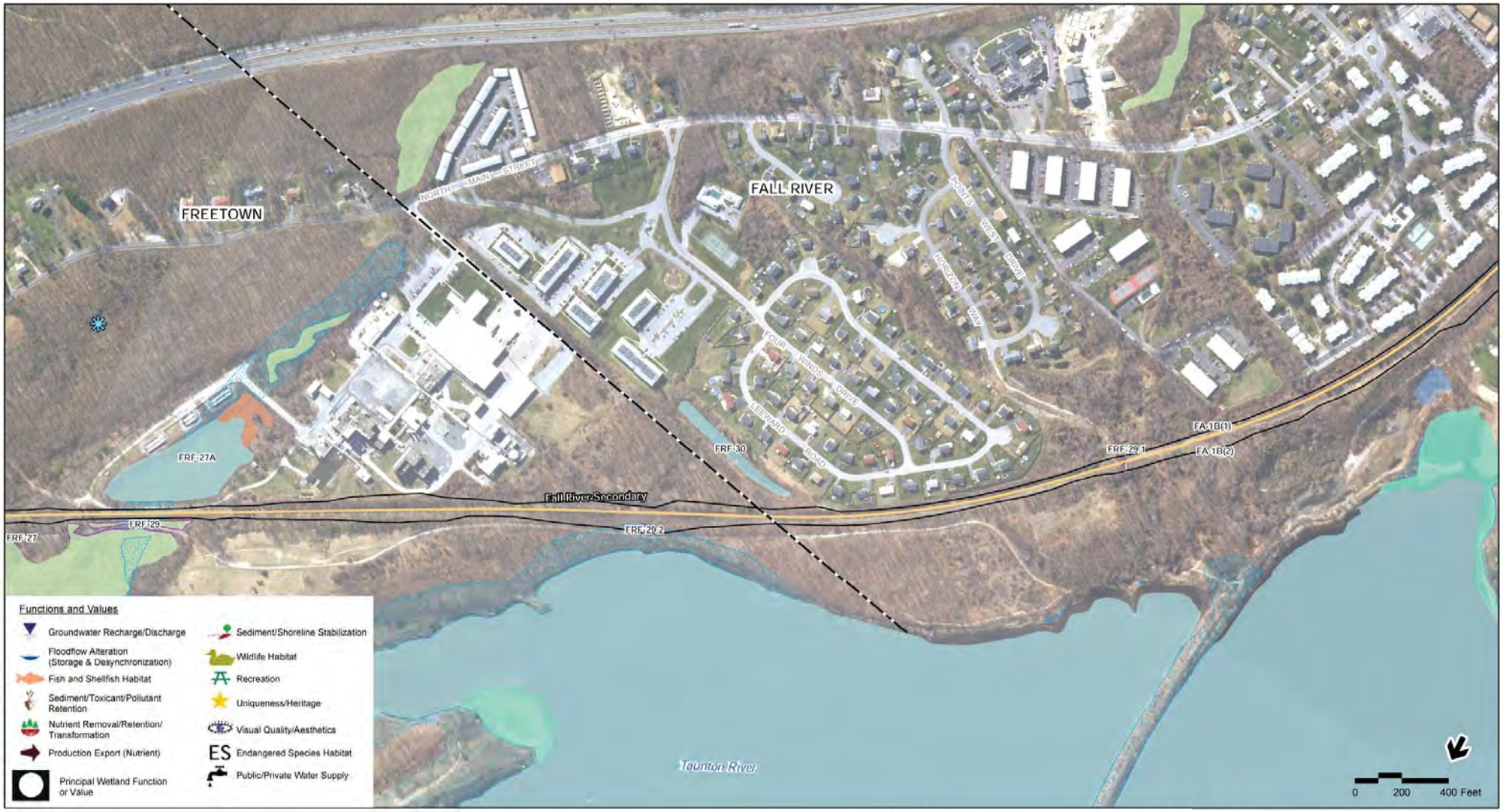
Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

Figure 4.16-4e

Wetland Impacts
Fall River Secondary



Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

Figure 4.16-4f

Wetland Impacts
Fall River Secondary

Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

Figure 4.16-4g

Wetland Impacts
Fall River Secondary

Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

Figure 4.16-4h

Wetland Impacts
Fall River Secondary

Legend

- MBTA Commuter Rail Station
- Town Boundaries
- South Coast Rail
- MBTA Commuter Rail
- Limit of Disturbance
- Traction Power Station
- BLSF - Bordering Land Subject to Flooding
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- SCR Identified Vernal Pools (Field Verified)

Note: NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Impacted Wetlands
- Wetland Delineation

Index Map

Figure 4.16-4i

Wetland Impacts
Fall River Secondary

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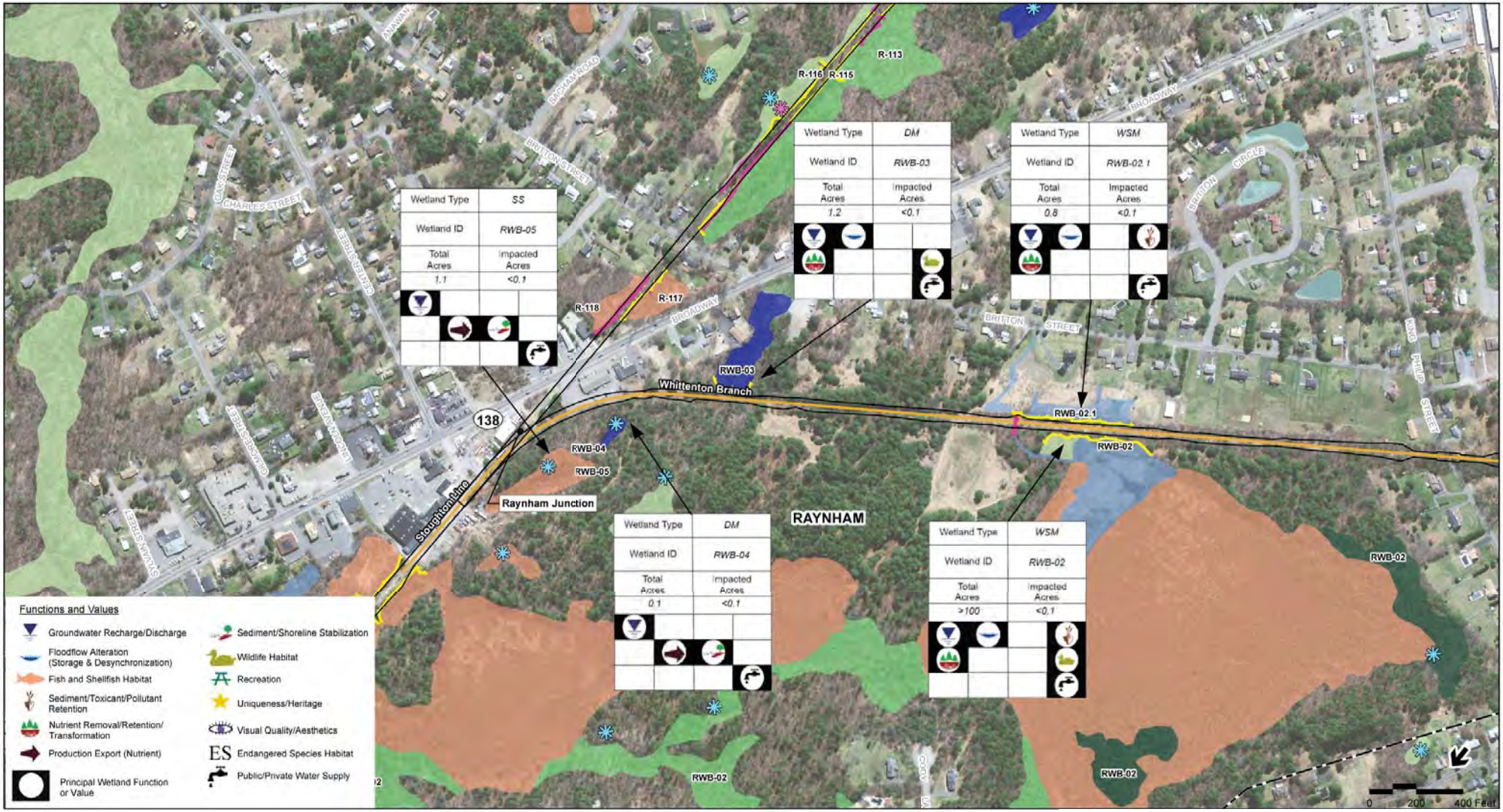
Figure 4.16-4j

Wetland Impacts
Fall River Secondary



Legend

- Proposed Alternative Alignment
- Proposed Rail Station
- Town Boundaries
- MBTA Commuter Rail
- Limit of Work for Proposed Rail
- Delineated Wetland
- Delineated Waterway
- Impacted Wetlands
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- Field-Identified Potential Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

Index Map

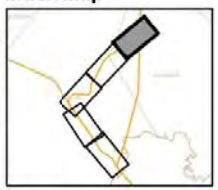
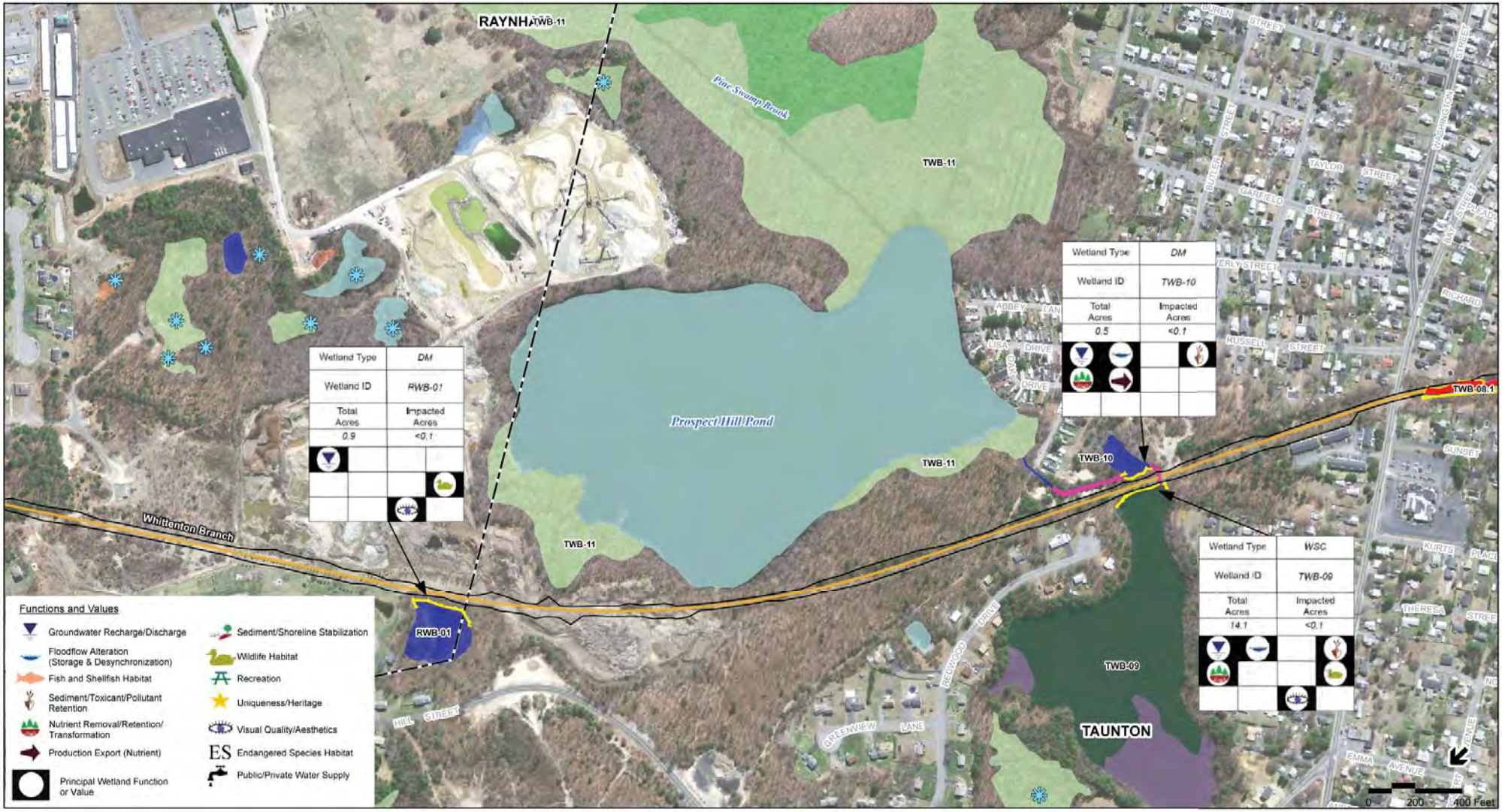


Figure 4.16-5a

Whittenton Alternative
Raynham Junction to Weir Junction

Wetlands and Wetland Impacts



Legend

- Proposed Alternative Alignment
- Proposed Rail Station
- Town Boundaries
- MBTA Commuter Rail
- Limit ofWork for Proposed Rail
- Delineated Wetland
- Delineated Waterway
- Impacted Wetlands
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- Field-Identified Potential Vernal Pools

Wetlands

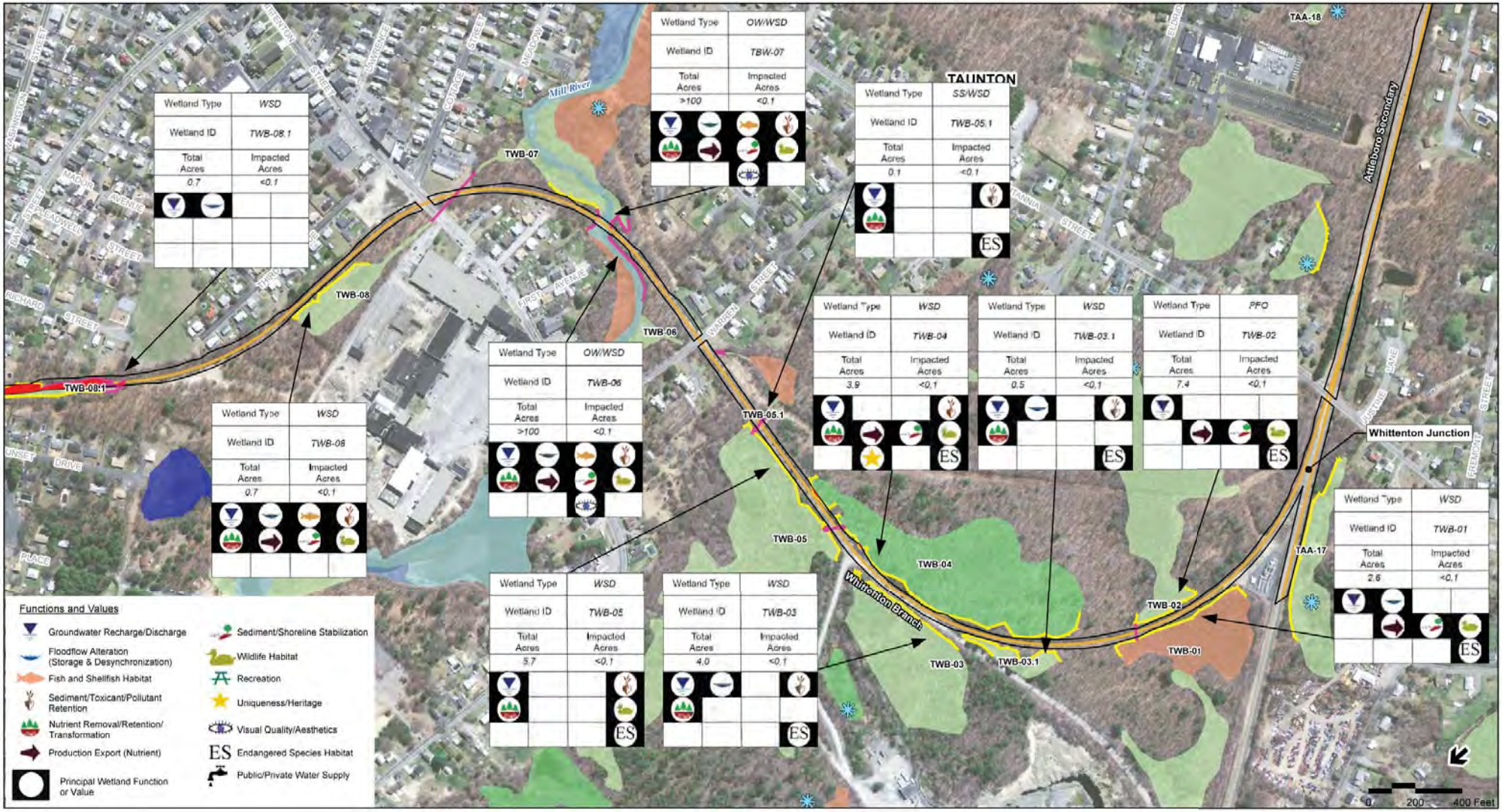
- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

Index Map

Figure 4.16-5b

Whittenton Alternative
Raynham Junction to Weir Junction

Wetlands and Wetland Impacts



Legend

- Proposed Alternative Alignment
- Proposed Rail Station
- Town Boundaries
- MBTA Commuter Rail
- Limit of Work for Proposed Rail
- Delineated Wetland
- Delineated Waterway
- Impacted Wetlands
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- Field-Identified Potential Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

Index Map

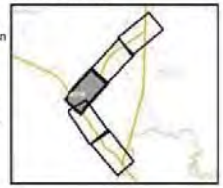


Figure 4.16-5c

Whittenton Alternative
Raynham Junction to Weir Junction

Wetlands and Wetland Impacts

Legend

- Proposed Alternative Alignment
- Proposed Rail Station
- Town Boundaries
- MBTA Commuter Rail
- Limit ofWork for Proposed Rail
- Delineated Wetland
- Delineated Waterway
- Impacted Wetlands
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- Field-Identified Potential Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

Index Map

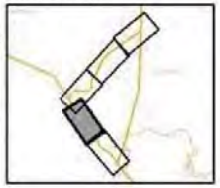


Figure 4.16-5d

Whittenton Alternative
Raynham Junction to Weir Junction

Wetlands and Wetland Impacts

Legend

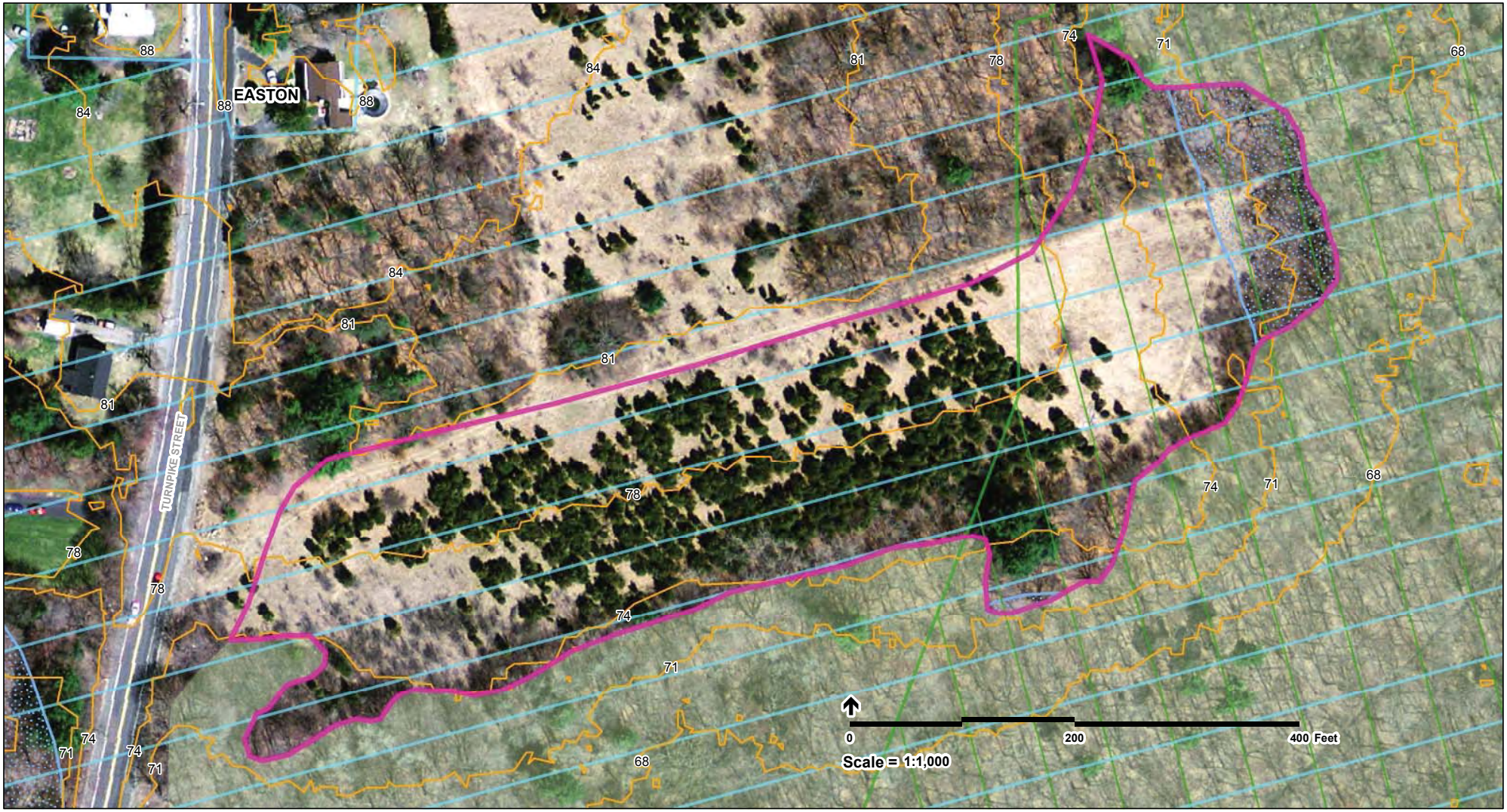
- Proposed Alternative Alignment
- Proposed Rail Station
- Town Boundaries
- MBTA Commuter Rail
- Limit ofWork for Proposed Rail
- Delineated Wetland
- Delineated Waterway
- Impacted Wetlands
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- Field-Identified Potential Vernal Pools

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

Index Map

Figure 4.16-5e
Whittenton Alternative Raynham Junction to Weir Junction
Wetlands and Wetland Impacts



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Legend

- MBTA Commuter Rail Station
- Town Boundaries
- Stoughton Alternative
- MBTA Commuter Rail
- Site Locus
- Existing Elevation Contours
- Protected Open Space
- Priority Habitat of Rare Species
- Existing BLSF (Bordering Land Subject to Flooding)
- Proposed Wetland Creation Area
- 71 Existing Elevation

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

Vernal Pools

- NHESP Certified Vernal Pool
- NHESP Potential Vernal Pool
- Field-verified Vernal Pool

Locus Map

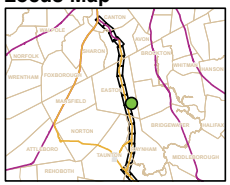
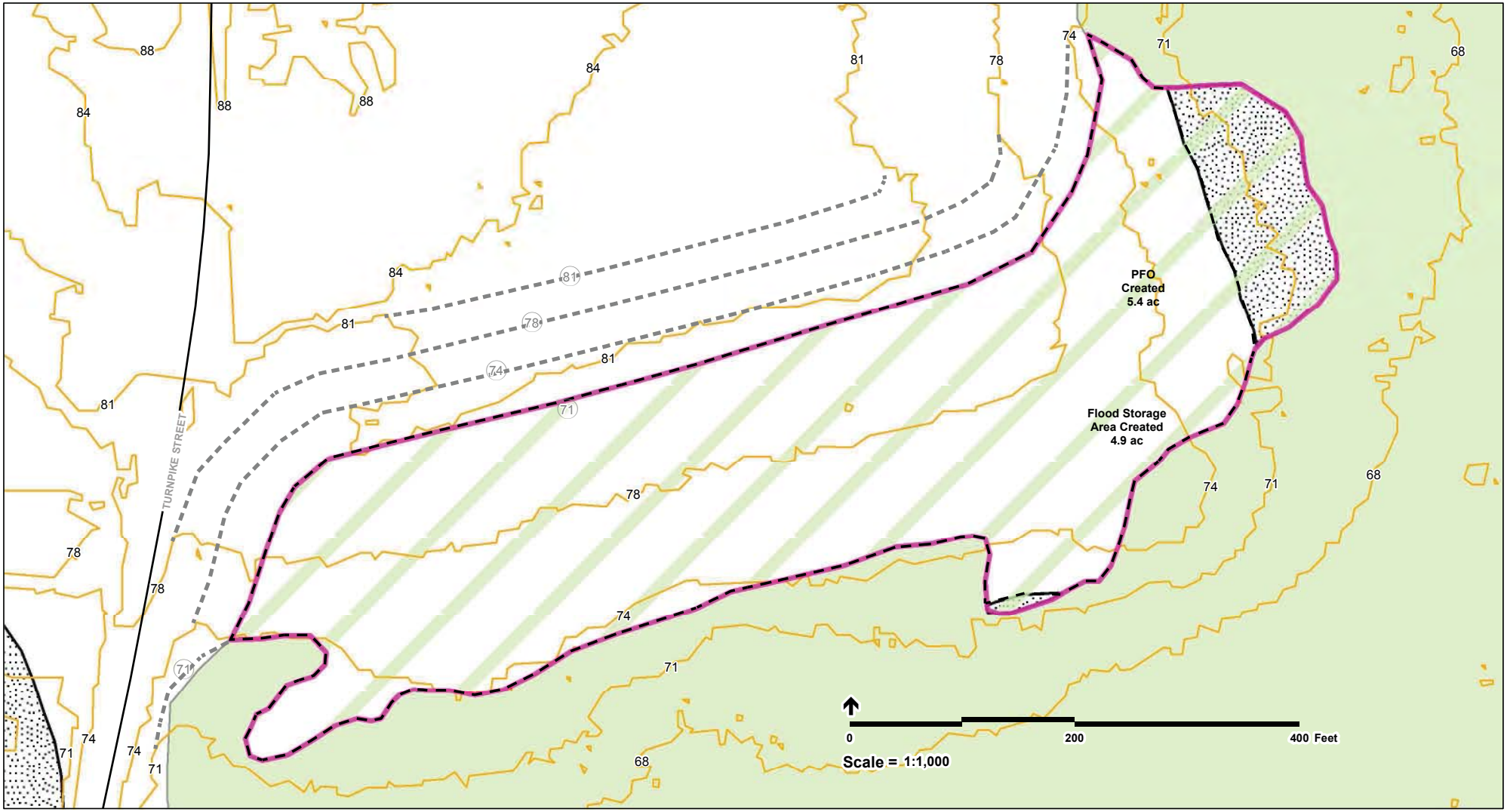


Figure 4.16-6

Proposed Mitigation Area
Site A
Existing Conditions



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Legend

- MBTA Commuter Rail Station
- Town Boundaries
- Stoughton Alternative
- MBTA Commuter Rail
- Site Locus

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Existing Elevation Contours
- Proposed Elevation Contours
- Existing BLSF - Bordering Land Subject to Flooding
- Proposed Wetland Creation Area
- 71 Existing Elevation
- (71) Proposed Elevation
- Extent of New Compensatory Flood Storage
- Extent of new PFO
- Extent of New PSS
- Extent of New PEM
- Extent of New OW

Locus Map

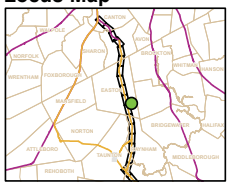


Figure 4.16-7

Proposed Mitigation Area
Site A
Mitigation Design Concept

Printing Date: 11/8/2012
File: \\MABO\Sprojects\10111.00\GIS\project\FEIS\Wetland\s\Wetland Mitigation\Site Selection\Site_B_Aerial.mxd

Legend

- MBTA Commuter Rail Station
- Town Boundaries
- Stoughton Alternative
- MBTA Commuter Rail
- Site Locus
- Existing Elevation Contours
- Protected Open Space
- Priority Habitat of Rare Species
- Existing BLSF (Bordering Land Subject to Flooding)
- Proposed Wetland Creation / Upland Restoration Area
- 71 Existing Elevation

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

Vernal Pools

- NHESP Certified Vernal Pool
- NHESP Potential Vernal Pool
- Field-verified Vernal Pool

Locus Map

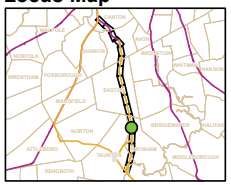
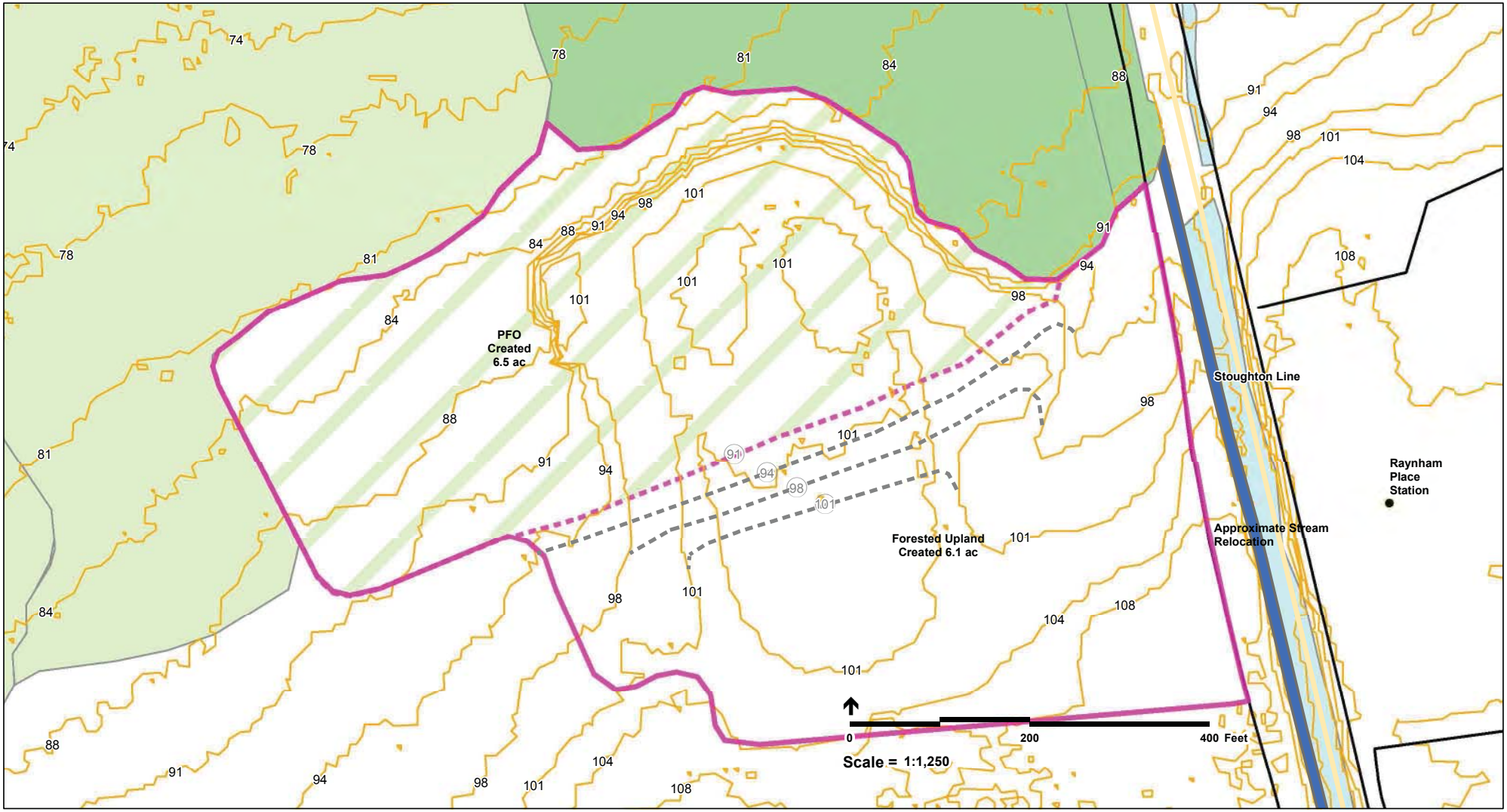


Figure 4.16-8

Proposed Mitigation Area
Site B
Existing Conditions



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Legend

- MBTA Commuter Rail Station
- Town Boundaries
- Stoughton Alternative
- MBTA Commuter Rail
- Site Locus

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Existing Elevation Contours
- Proposed Elevation Contours
- Existing BLSF - Bordering Land Subject to Flooding
- Proposed Wetland Creation / Upland Restoration Area
- 71 Existing Elevation
- (71) Proposed Elevation
- Extent of New Compensatory Flood Storage
- Extent of new PFO
- Extent of New PSS
- Extent of New PEM
- Extent of New OW

Locus Map

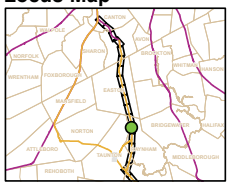
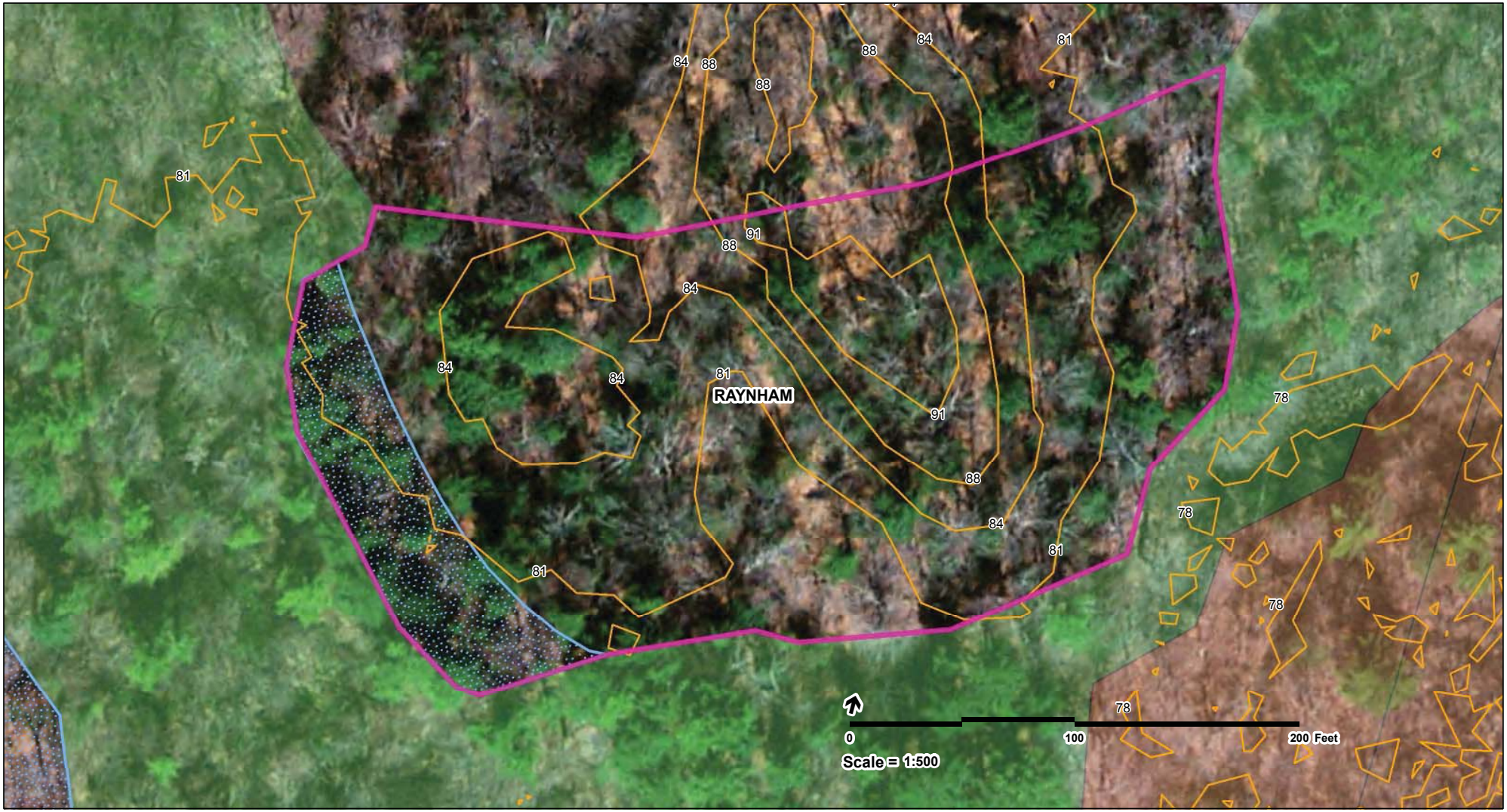


Figure 4.16-9

Proposed Mitigation Area
Site B
Mitigation Design Concept



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Legend

- MBTA Commuter Rail Station
- Town Boundaries
- Stoughton Alternative
- MBTA Commuter Rail
- Site Locus
- Existing Elevation Contours
- Protected Open Space
- Priority Habitat of Rare Species
- Existing BLSF (Bordering Land Subject to Flooding)
- Proposed Wetland Creation Area
- 71 Existing Elevation

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

Vernal Pools

- NHESP Certified Vernal Pool
- NHESP Potential Vernal Pool
- Field-verified Vernal Pool

Locus Map

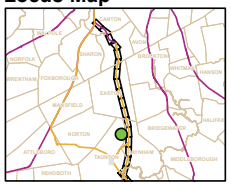
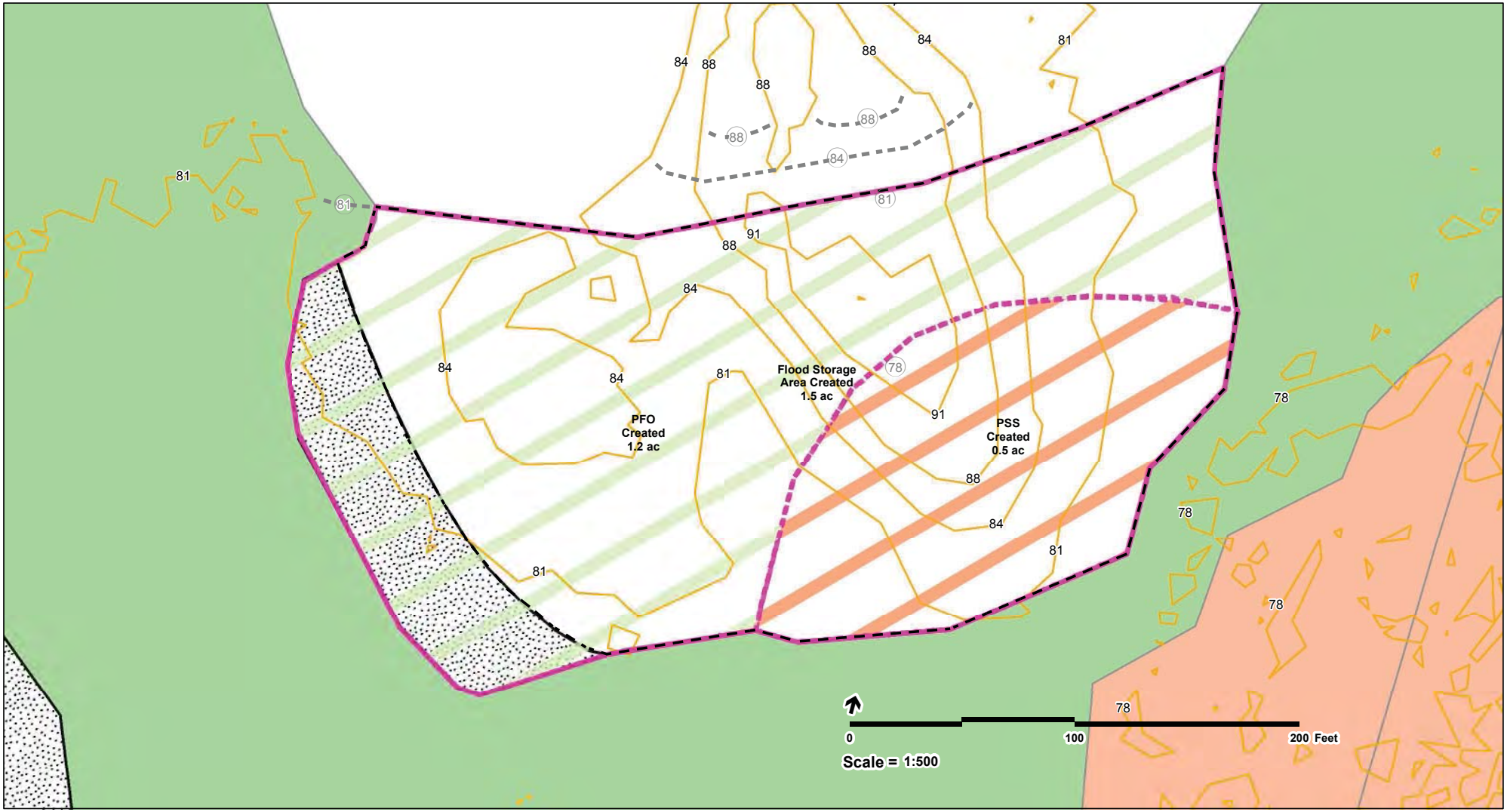


Figure 4.16-10

Proposed Mitigation Area
Site C
Existing Conditions



Printing Date: 11/8/2012
File: \\MABOSprojects\10111.00\GIS\project\FEIS\Wetland\s\Wetland Mitigation\Site Selection\Site_C.mxd

Legend

- MBTA Commuter Rail Station
- Town Boundaries
- Stoughton Alternative
- MBTA Commuter Rail
- Site Locus

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Existing Elevation Contours
- Proposed Elevation Contours
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- Proposed Wetland Creation Area
- 71 Existing Elevation
- (71) Proposed Elevation
- Extent of New Compensatory Flood Storage
- Extent of new PFO
- Extent of New PSS
- Extent of New PEM
- Extent of New OW

Locus Map

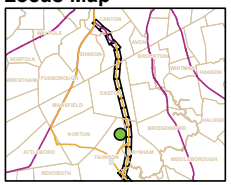
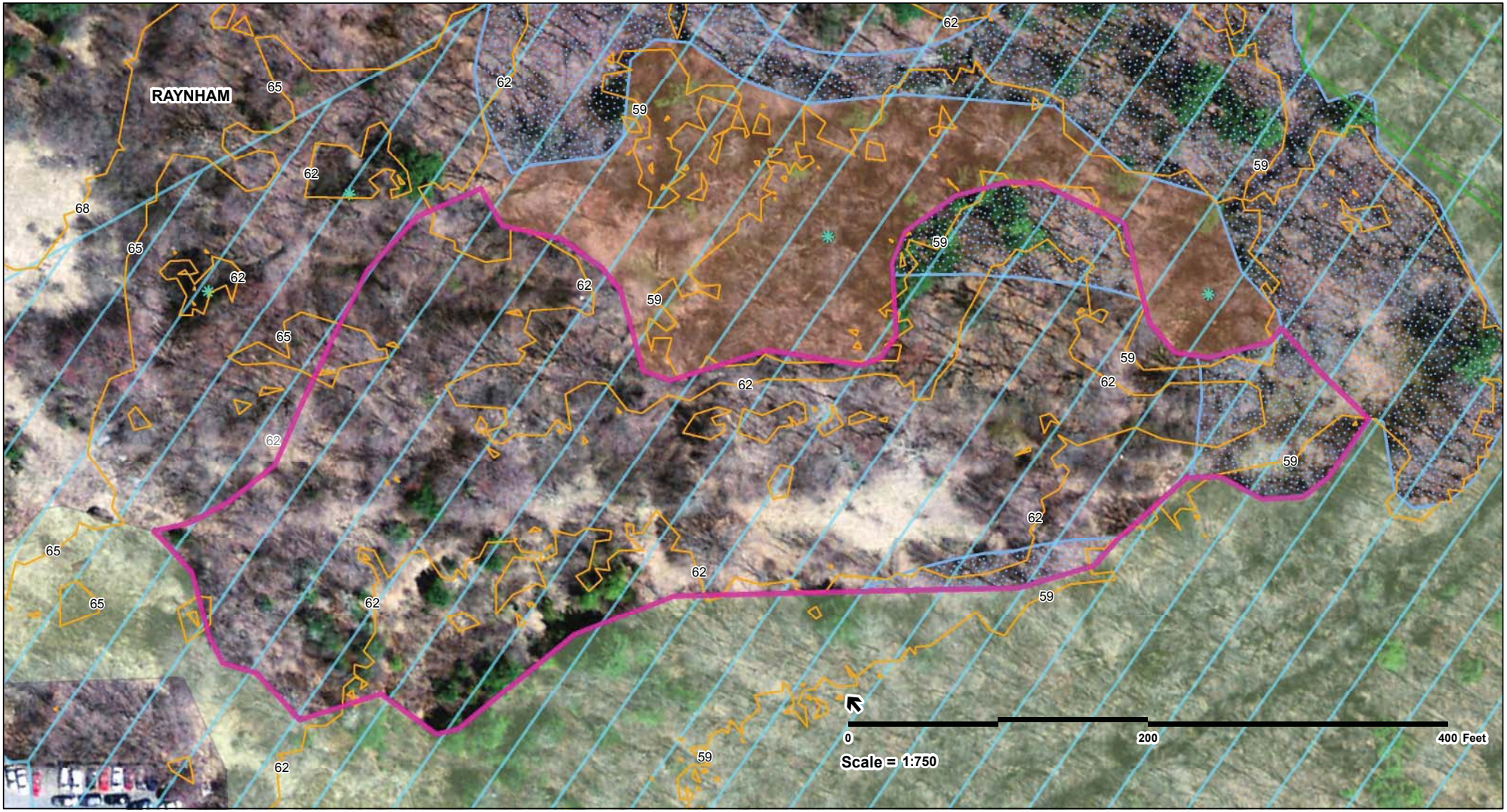


Figure 4.16-11

Proposed Mitigation Area
Site C
Mitigation Design Concept



Printing Date: 11/8/2012
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Legend

- MBTA Commuter Rail Station
- Town Boundaries
- Stoughton Alternative
- MBTA Commuter Rail
- Site Locus
- Existing Elevation Contours
- Protected Open Space
- Priority Habitat of Rare Species
- Existing BLSF (Bordering Land Subject to Flooding)
- Proposed Wetland Creation Area
- 71 Existing Elevation

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

Vernal Pools

- NHESP Certified Vernal Pool
- NHESP Potential Vernal Pool
- Field-verified Vernal Pool

Locus Map

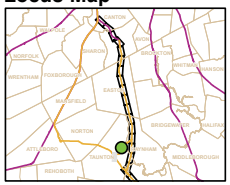
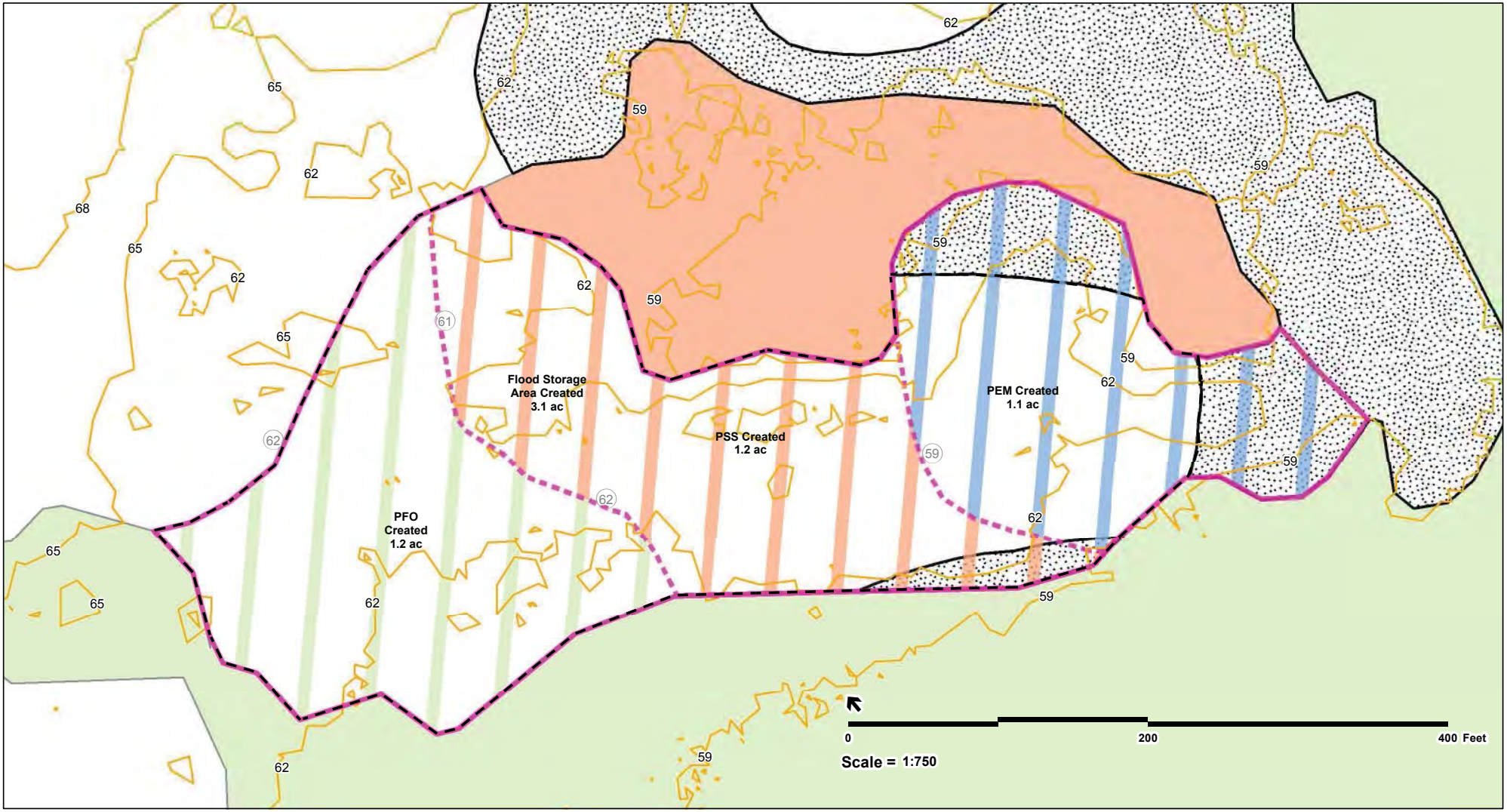


Figure 4.16-12

Proposed Mitigation Area
Site D
Existing Conditions



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Legend

- MBTA Commuter Rail Station
- Town Boundaries
- Stoughton Alternative
- MBTA Commuter Rail
- Site Locus

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Existing Elevation Contours
- Proposed Elevation Contours
- Existing BLSF - Bordering Land Subject to Flooding
- Proposed Wetland Creation Area
- 71 Existing Elevation
- (71) Proposed Elevation
- Extent of New Compensatory Flood Storage
- Extent of new PFO
- Extent of New PSS
- Extent of New PEM
- Extent of New OW

Locus Map

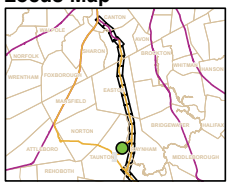
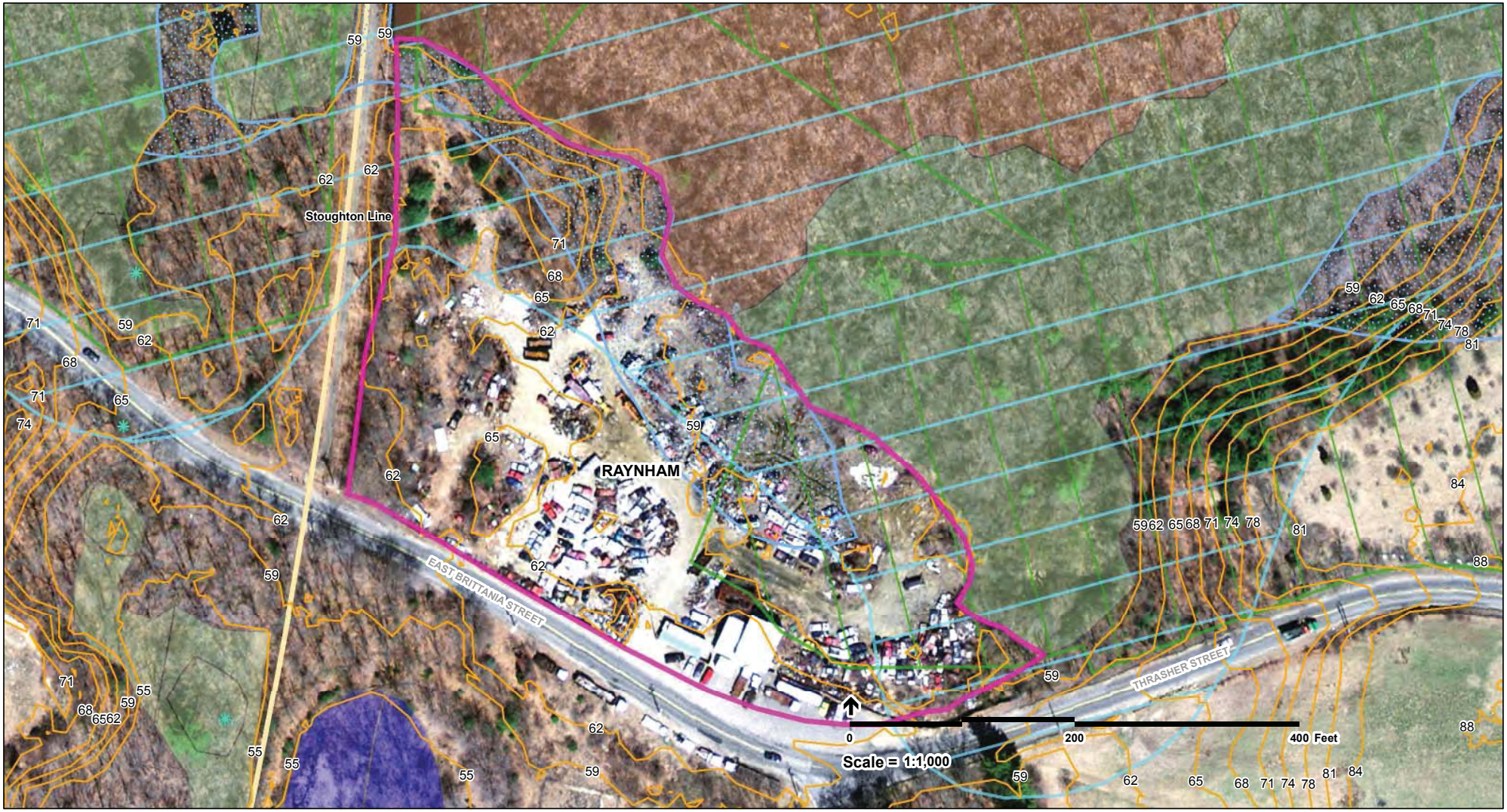


Figure 4.16-13

Proposed Mitigation Area
Site D
Proposed Mitigation Concept



Printing Date: 11/8/2012
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Legend

- MBTA Commuter Rail Station
- Town Boundaries
- Stoughton Alternative
- MBTA Commuter Rail
- Site Locus
- Existing Elevation Contours
- Protected Open Space
- Priority Habitat of Rare Species
- Existing BLSF (Bordering Land Subject to Flooding)
- Proposed Wetland Creation Area
- 71 Existing Elevation

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

Vernal Pools

- NHESP Certified Vernal Pool
- NHESP Potential Vernal Pool
- Field-verified Vernal Pool

Locus Map

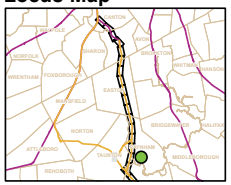
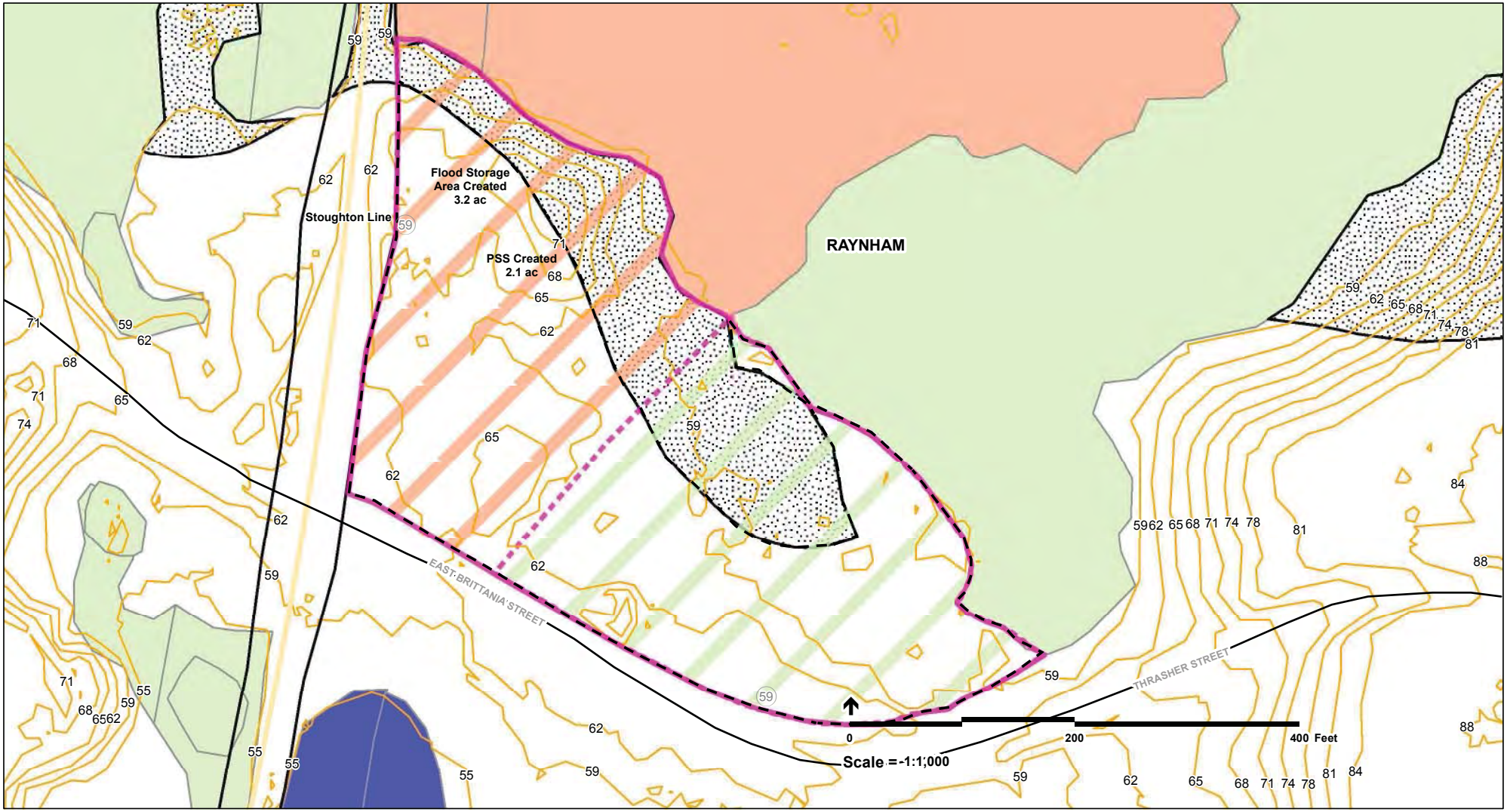


Figure 4.16-14

Proposed Mitigation Area
Site E
Existing Conditions



Printing Date: 11/12/2012
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Legend

- MBTA Commuter Rail Station
- Town Boundaries
- Stoughton Alternative
- MBTA Commuter Rail
- Site Locus

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

- Existing Elevation Contours
- Proposed Elevation Contours
- Existing BLSF - Bordering Land Subject to Flooding
- Proposed Wetland Creation Area
- 71 Existing Elevation
- (71) Proposed Elevation

- Extent of New Compensatory Flood Storage
- Extent of new PFO
- Extent of New PSS
- Extent of New PEM
- Extent of New OW

Locus Map

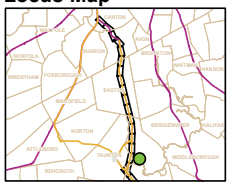

Figure 4.16-15

Proposed Mitigation Area
Site E
Mitigation Design Concept

Printing Date: 11/8/2012
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Legend

- MBTA Commuter Rail Station
- Town Boundaries
- Stoughton Alternative
- MBTA Commuter Rail
- Site Locus
- Existing Elevation Contours
- Protected Open Space
- Priority Habitat of Rare Species
- Existing BLSF (Bordering Land Subject to Flooding)
- Proposed Wetland Creation Area
- 71 Existing Elevation

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

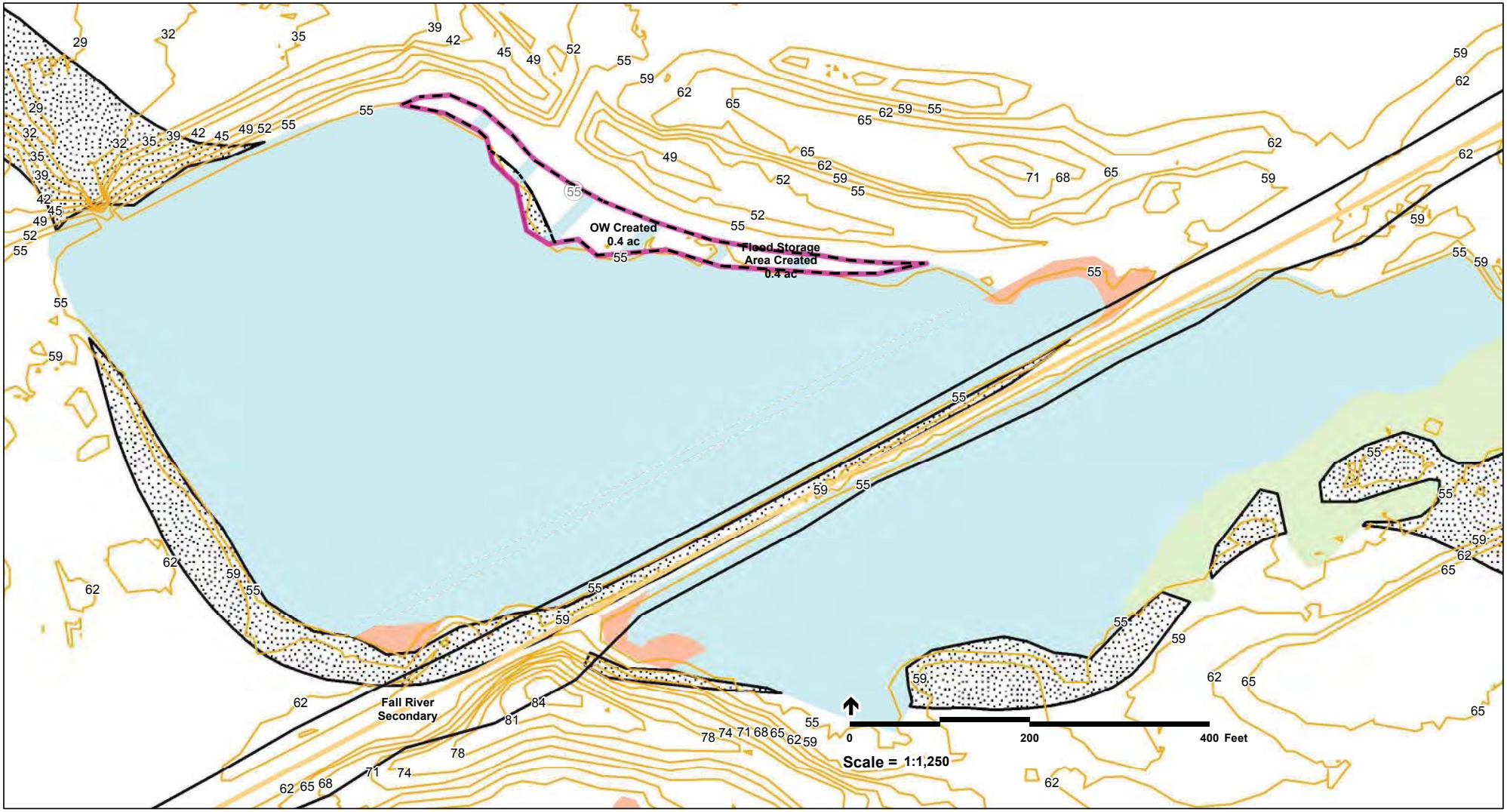
Vernal Pools

- NHESP Certified Vernal Pool
- NHESP Potential Vernal Pool
- Field-verified Vernal Pool

Locus Map

Figure 4.16-16

Proposed Mitigation Area
Site F - Terry Brook Pond
Existing Conditions



Printing Date: 11/12/2012
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Legend

- MBTA Commuter Rail Station
- Town Boundaries
- Stoughton Alternative
- MBTA Commuter Rail
- Site Locus

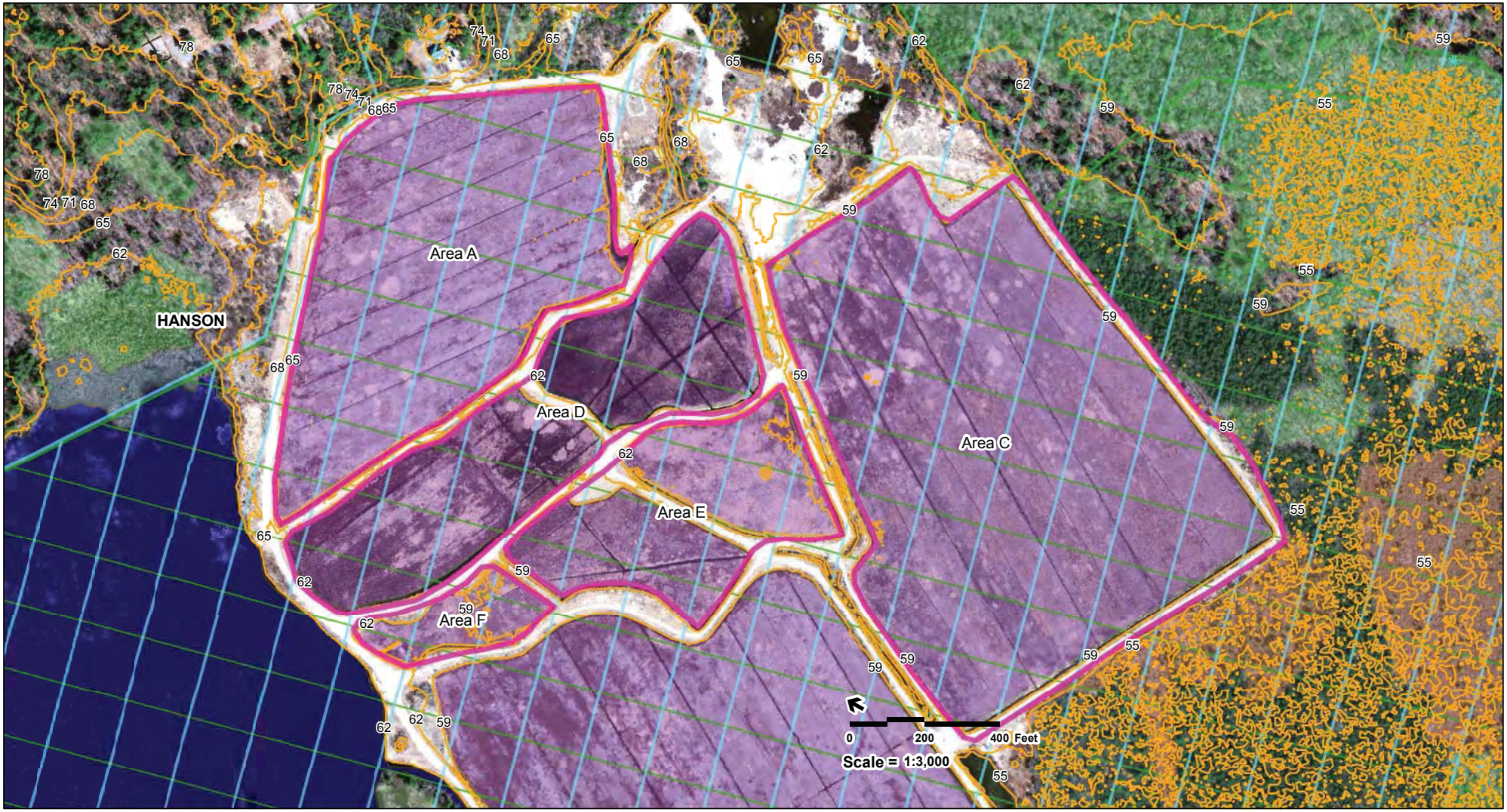
Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Existing Elevation Contours
- Proposed Elevation Contours
- Existing BLSF - Bordering Land Subject to Flooding
- Proposed Wetland Creation Area
- 71 Existing Elevation
- (71) Proposed Elevation
- Extent of New Compensatory Flood Storage
- Extent of new PFO
- Extent of New PSS
- Extent of New PEM
- Extent of New OW

Locus Map

Figure 4.16-17

Proposed Mitigation Area
Site F - Terry Brook Pond
Mitigation Design Concept



Printing Date: 11/8/2012
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Legend

- MBTA Commuter Rail Station
- Town Boundaries
- Stoughton Alternative
- MBTA Commuter Rail
- Site Locus
- Existing Elevation Contours
- Protected Open Space
- Priority Habitat of Rare Species
- Existing BLSF (Bordering Land Subject to Flooding)
- Proposed Wetland Creation Area
- 71 Existing Elevation

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

Vernal Pools

- NHESP Certified Vernal Pool
- NHESP Potential Vernal Pool
- Field-verified Vernal Pool

Locus Map

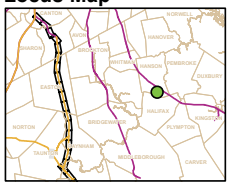
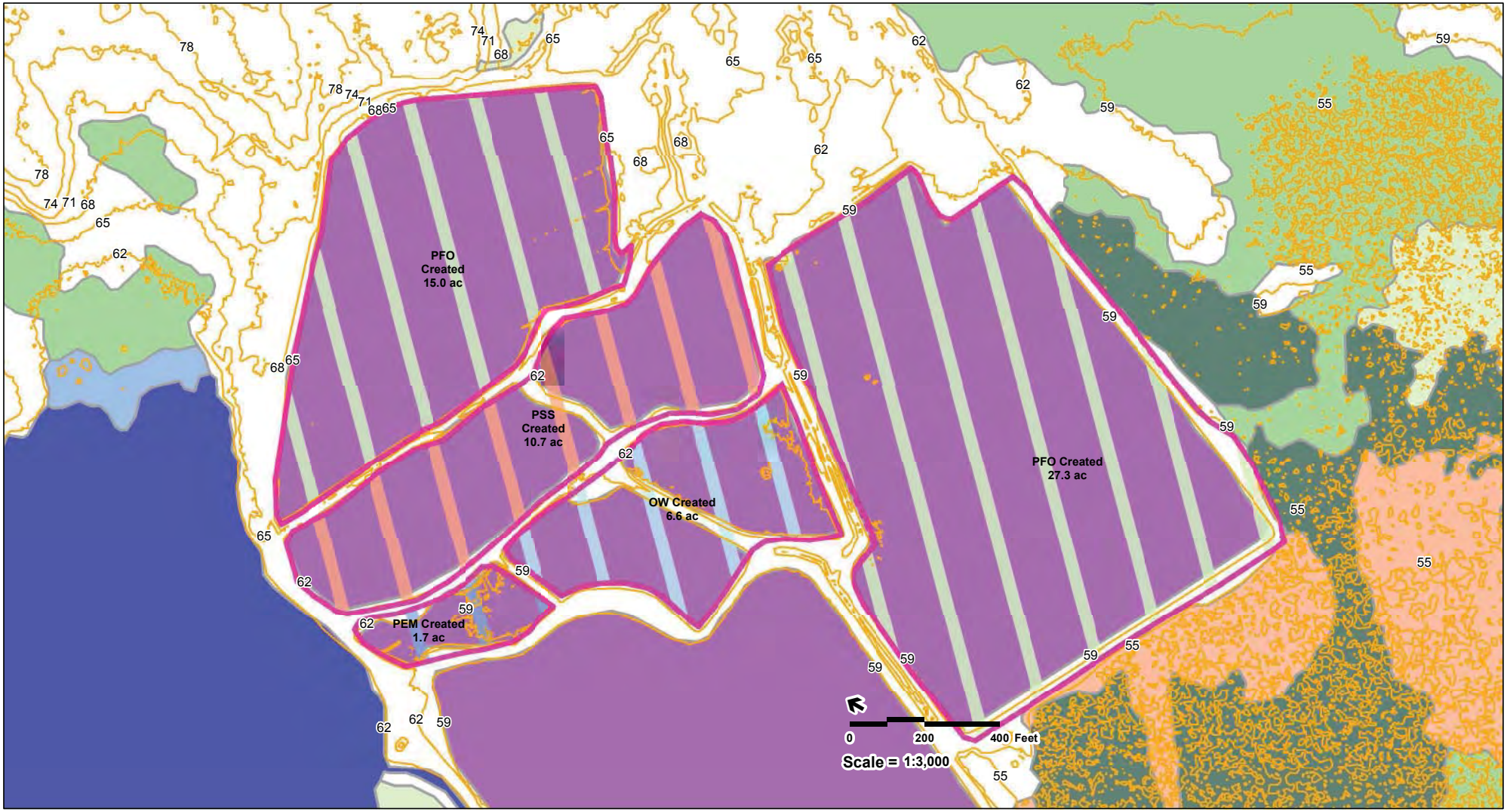


Figure 4.16-18

Proposed Mitigation Area
Site G - Burrage Pond WMA
Existing Conditions



Printing Date: 11/8/2012
File: \\MABOSprojects\10111.00\GISproject\FEIS\Wetlands\Wetland Mitigation\Site Selection\Site_G.mxd

Legend

- MBTA Commuter Rail Station
- Town Boundaries
- Stoughton Alternative
- MBTA Commuter Rail
- Site Locus

Wetlands

- Open Water
- Bog
- Cranberry Bog
- Other
- Deep Marsh
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
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- Proposed Elevation Contours
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- Proposed Wetland Creation Area
- 71 Existing Elevation
- (71) Proposed Elevation
- Extent of New Compensatory Flood Storage
- Extent of new PFO
- Extent of New PSS
- Extent of New PEM
- Extent of New OW

Locus Map

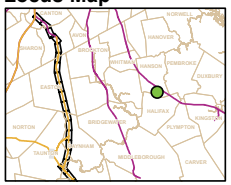
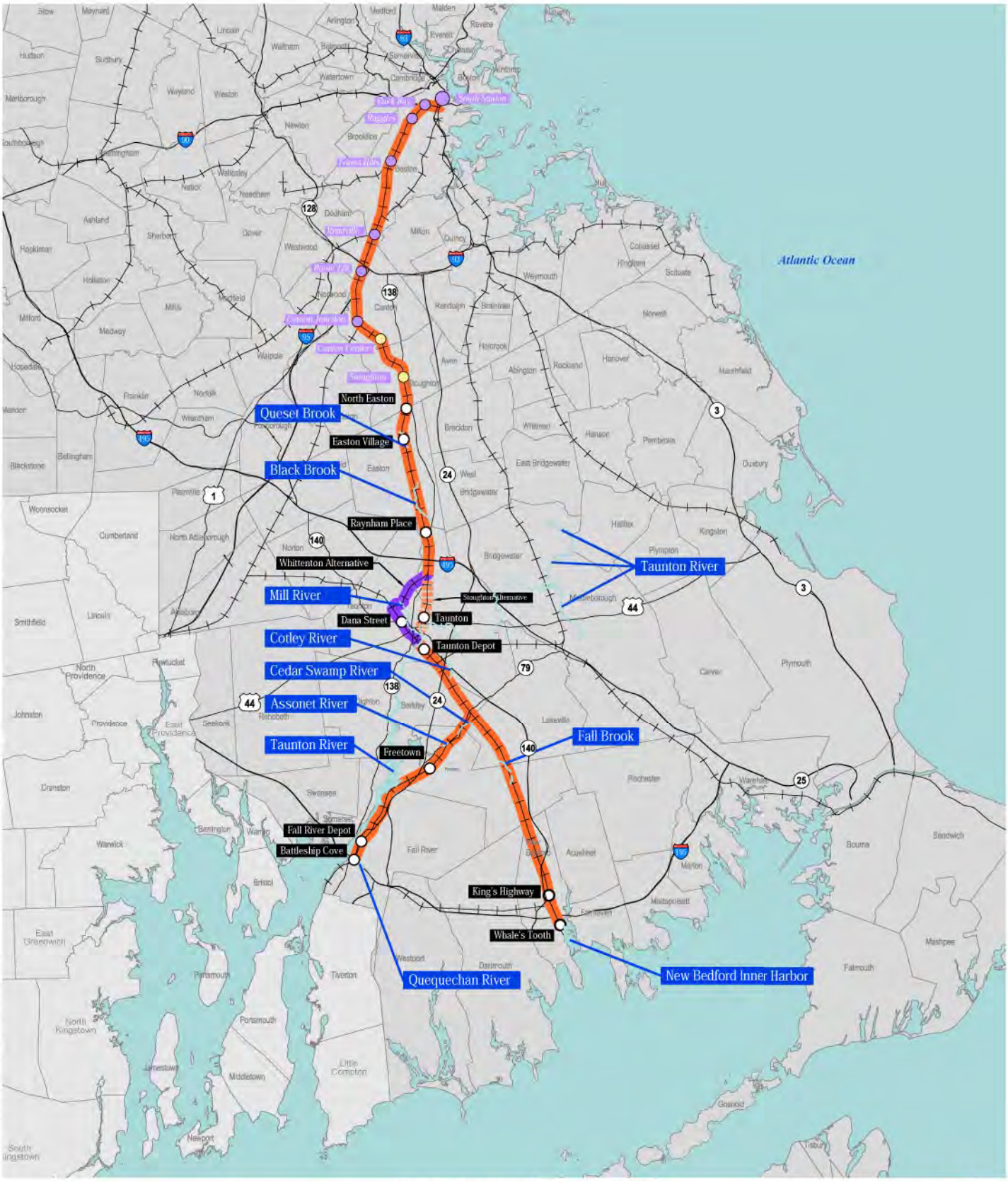


Figure 4.16-19

Proposed Mitigation Area
Site G - Burrage Pond WMA
Proposed Mitigation Concept



Legend

- Whittenton Alternative
- Existing Stations
- Proposed Stations
- Existing Stations to be Reconstructed

0 4 8 Miles

Figure 4.17-1

Major Water Bodies

\\mabosdata\projects\10111.00\GIS\output\Phase2\TechReports\WaterResources\AE_Figures\10111_WaterResources-Fig4.17-1.dwg Printing Date: 1/28/2013 12:45 PM

Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignments
- Limit of Work for Proposed Station/Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Open Water
- Public Water Supply Well
- Zone I (400ft buffer of Public Water Supplies)
- Zone II DEP Wellhead Protection Areas
- IWPA DEP Wellhead Protection Areas
- Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

Index Map

Figure 4.17-2a
All Rail Alternatives
New Bedford Main Line (Sheet 1 of 5)

Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignments
- Limit of Work for Proposed Station/Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Open Water
- Public Water Supply Well
- Zone I (400ft buffer of Public Water Supplies)
- Zone II DEP Wellhead Protection Areas
- IWPA DEP Wellhead Protection Areas
- Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

Index Map

Figure 4.17-2b
All Rail Alternatives
New Bedford Main Line (Sheet 2 of 5)

Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignments
- Limit of Work for Proposed Station/Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Open Water
- Public Water Supply Well
- Zone I (400ft buffer of Public Water Supplies)
- Zone II DEP Wellhead Protection Areas
- IWPA DEP Wellhead Protection Areas
- Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

Index Map

Figure 4.17-2c
All Rail Alternatives
New Bedford Main Line (Sheet 3 of 5)

Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignments
- Limit of Work for Proposed Station/Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Open Water
- Public Water Supply Well
- Zone I (400ft buffer of Public Water Supplies)
- Zone II DEP Wellhead Protection Areas
- IWPA DEP Wellhead Protection Areas
- Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

Index Map

Figure 4.17-2d
All Rail Alternatives
New Bedford Main Line (Sheet 4 of 5)

Printing Date: 6/17/2010
File: \\boston\projects\10111.010\3\project\Phase2\TechReports\WaterQuality\EC\WQ_EC_NewBedford_sp5.mxd

Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignments
- Limit of Work for Proposed Station/Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Open Water
- Public Water Supply Well
- Zone I (400ft buffer of Public Water Supplies)
- Zone II DEP Wellhead Protection Areas
- IWPA DEP Wellhead Protection Areas
- Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

Index Map

Figure 4.17-2e
All Rail Alternatives
New Bedford Main Line (Sheet 5 of 5)

Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignments
- Limit of Work for Proposed Station/Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Open Water
- Public Water Supply Well
- Zone I (400ft buffer of Public Water Supplies)
- Zone II DEP Wellhead Protection Areas
- IWPA DEP Wellhead Protection Areas
- Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

Index Map

Figure 4.17-3a
All Rail Alternatives
Fall River Secondary (Sheet 1 of 3)

Printing Date: 6/16/2009
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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignments
- Limit of Work for Proposed Station/Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Open Water
- Public Water Supply Well
- Zone I (400ft buffer of Public Water Supplies)
- Zone II DEP Wellhead Protection Areas
- IWPA DEP Wellhead Protection Areas
- Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

Index Map

Figure 4.17-3b
All Rail Alternatives
Fall River Secondary (Sheet 2 of 3)

Printing Date: 6/16/2009
File: \\hbinc\Boston\10111.00\GIS\proj\e2\Phase2\TechReports\WaterQuality\EC\WQ_EC_FallRiver_pg3.mxd

Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignments
- Limit of Work for Proposed Station/Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Open Water
- Public Water Supply Well
- Zone I (400ft buffer of Public Water Supplies)
- Zone II DEP Wellhead Protection Areas
- IWPA DEP Wellhead Protection Areas
- Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

Index Map

Figure 4.17-3c
All Rail Alternatives
Fall River Secondary (Sheet 3 of 3)

Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignments
- Limit of Work for Proposed Station/Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Open Water
- Public Water Supply Well
- Zone I (400ft buffer of Public Water Supplies)
- Zone II DEP Wellhead Protection Areas
- IWPA DEP Wellhead Protection Areas
- Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

Index Map

Figure 4.17-4a
Stoughton Alternative
Stoughton Line (Sheet 1 of 5)

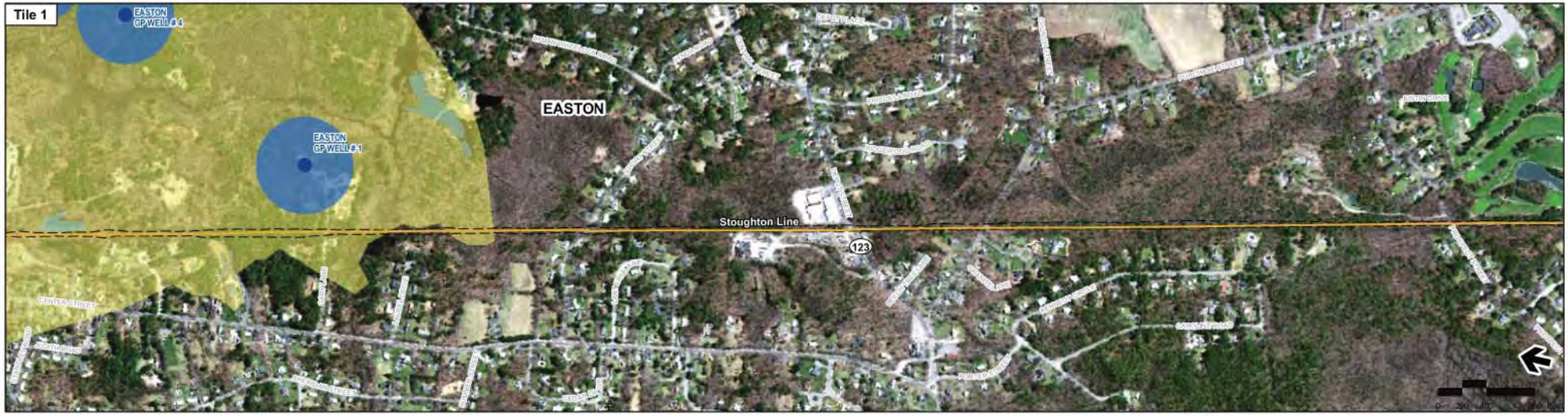
Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignments
- Limit of Work for Proposed Station/Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Open Water
- Public Water Supply Well
- Zone I (400ft buffer of Public Water Supplies)
- Zone II DEP Wellhead Protection Areas
- IWPA DEP Wellhead Protection Areas
- Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

Index Map

Figure 4.17-4b
Stoughton Alternative
Stoughton Line (Sheet 2 of 5)



Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignments
- Limit of Work for Proposed Station/Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Open Water
- Public Water Supply Well
- Zone I (400ft buffer of Public Water Supplies)
- Zone II DEP Wellhead Protection Areas
- IWPA DEP Wellhead Protection Areas
- Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

Index Map

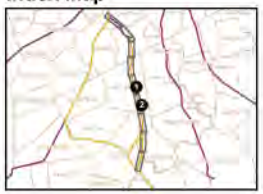


Figure 4.17-4c
Stoughton Alternative
Stoughton Line (Sheet 3 of 5)

Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignments
- Limit of Work for Proposed Station/Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Open Water
- Public Water Supply Well
- Zone I (400ft buffer of Public Water Supplies)
- Zone II DEP Wellhead Protection Areas
- IWPA DEP Wellhead Protection Areas
- Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

Index Map

Figure 4.17-4d
Stoughton Alternative
Stoughton Line (Sheet 4 of 5)

Printing Date: 6/17/2009
File: \\maboss\projects\10111.01\GIS\projectPhase2\TechReports\WaterQuality\EC\WQ_EC_a_Stoughton.mxd

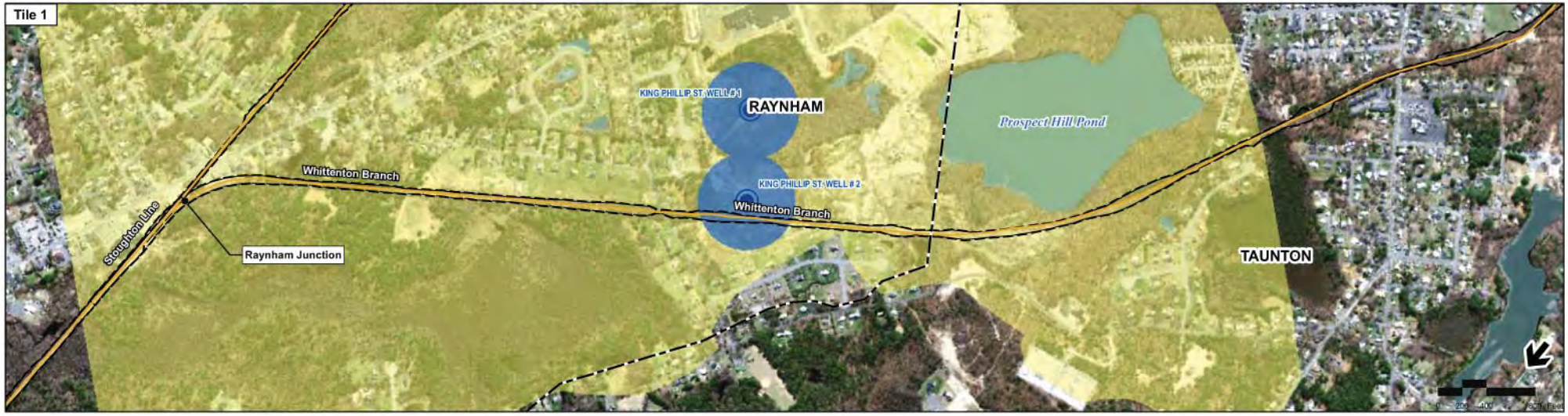
Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignments
- Limit of Work for Proposed Station/Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Open Water
- Public Water Supply Well
- Zone I (400ft buffer of Public Water Supplies)
- Zone II DEP Wellhead Protection Areas
- IWPA DEP Wellhead Protection Areas
- Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

Index Map

Figure 4.17-4e
Stoughton Alternative
Stoughton Line (Sheet 5 of 5)



Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignments
- Limit of Work for Proposed Station/Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Open Water
- Public Water Supply Well
- Zone I (400ft buffer of Public Water Supplies)
- Zone II DEP Wellhead Protection Areas
- IWPA DEP Wellhead Protection Areas
- Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

Index Map

Figure 4.17-5a
Whittenton Alternative
Whittenton Branch (Sheet 1 of 2)

Printing Date: 6/17/2009
File: \\massdot\projects\00101\11.00\GIS\projects\Phase2\TechReports\WaterQuality\EC\WQ_EC_Stoughton_Whittenton_fig2.mxd

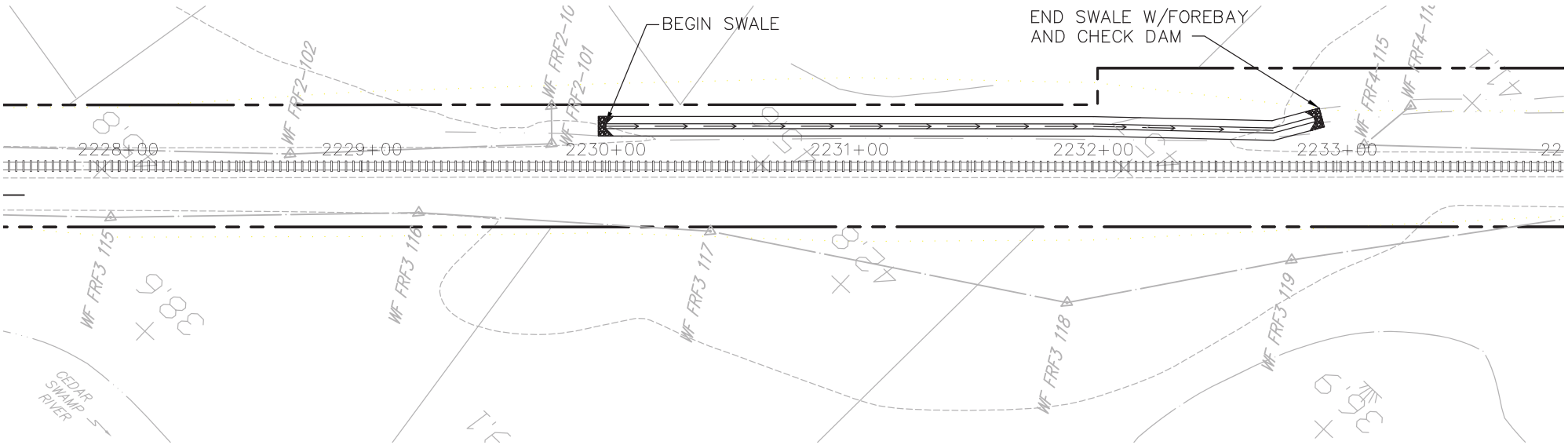
Legend

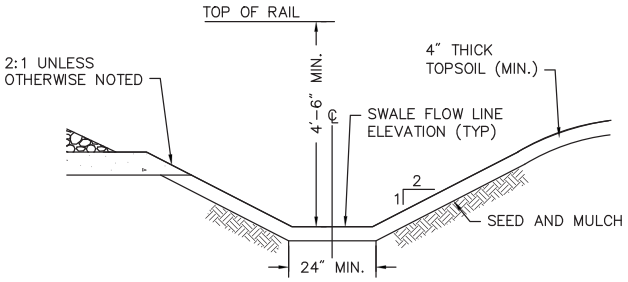
- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignments
- Limit of Work for Proposed Station/Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Open Water
- Public Water Supply Well
- Zone I (400ft buffer of Public Water Supplies)
- Zone II DEP Wellhead Protection Areas
- IWPA DEP Wellhead Protection Areas
- Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

Index Map

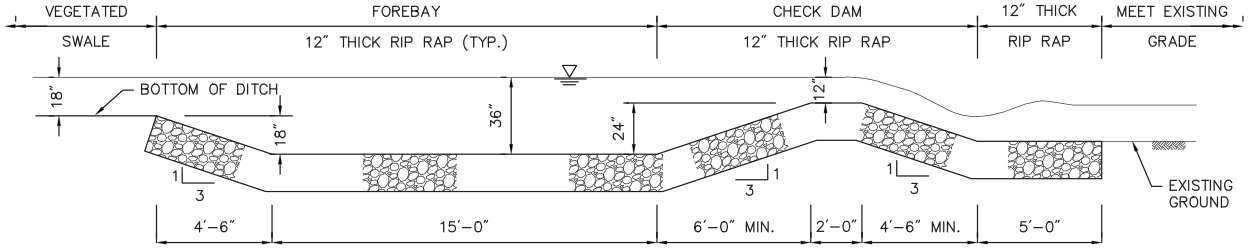
Figure 4.17-5b
Whittenton Alternative
Whittenton Branch (Sheet 2 of 2)





VEGETATED SWALE

SCALE: NTS



ELEVATION
FOREBAY AND CHECK DAM

SCALE: NTS

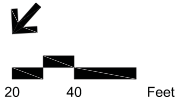


Figure 4.17-6
Typical Stormwater Treatment
Vegetated Swale with Forebay Discharging to Stream

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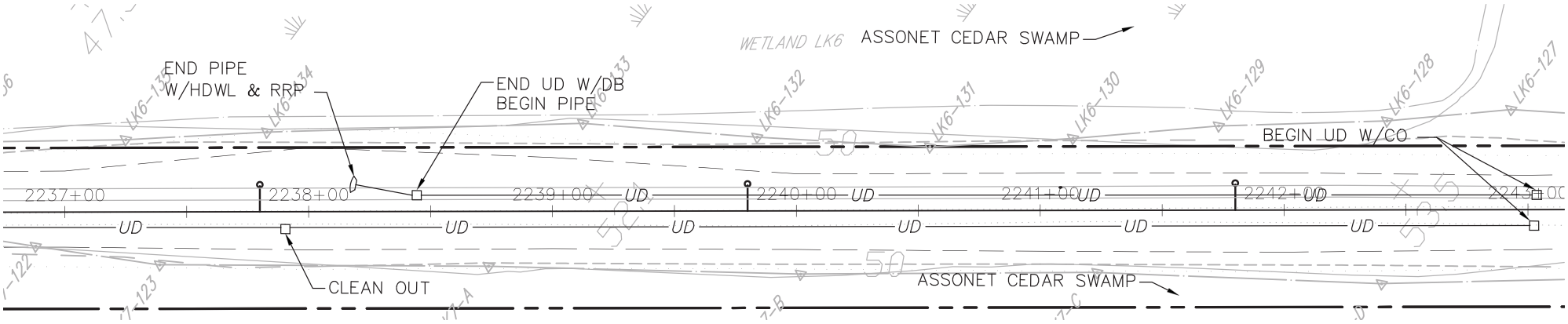
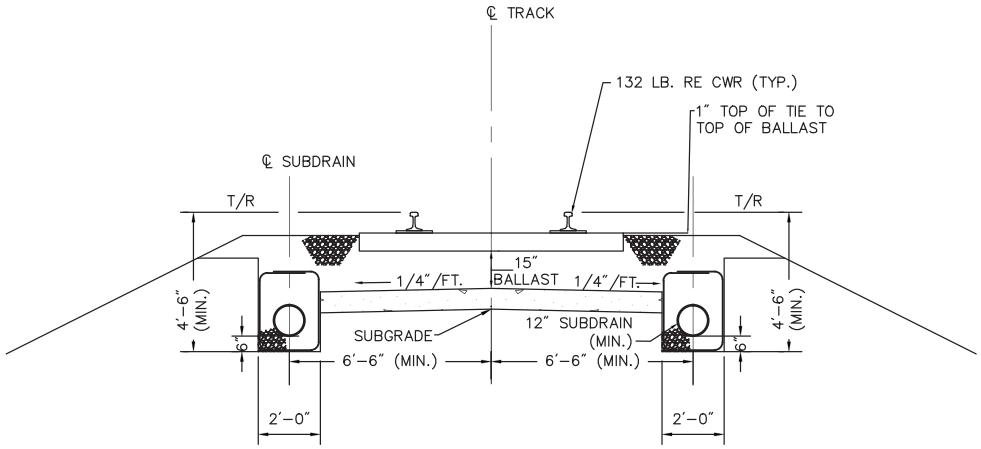




TYPICAL SECTION FOR SINGLE TRACK WITH UNDERDRAINS

SCALE: NTS

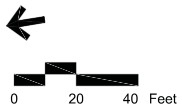
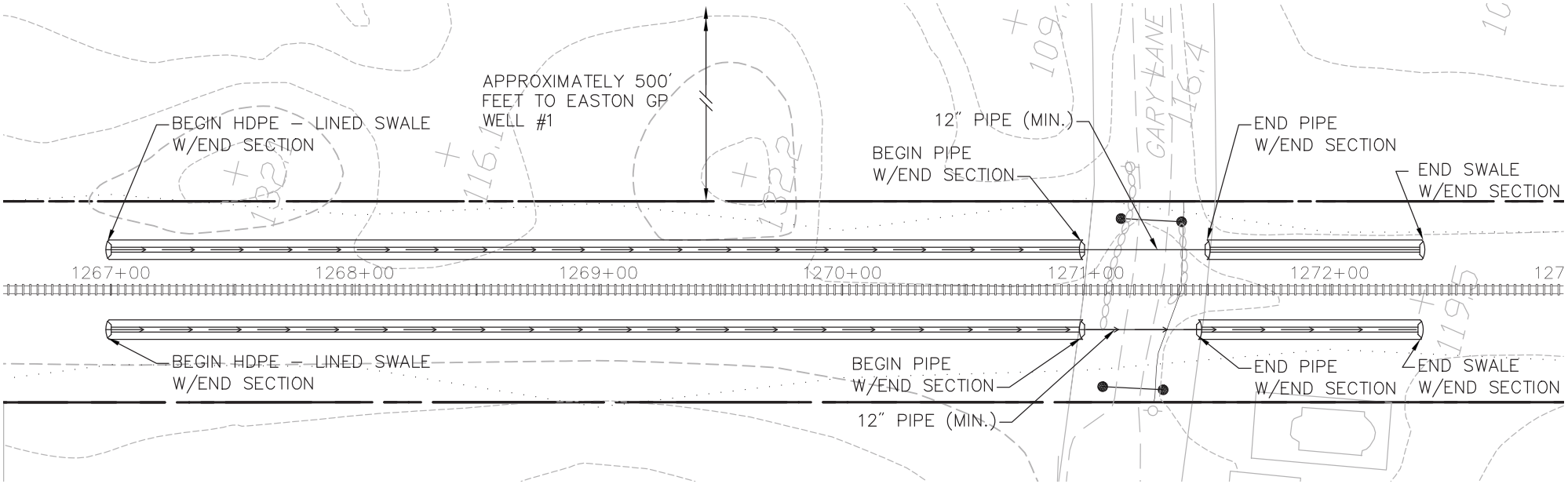
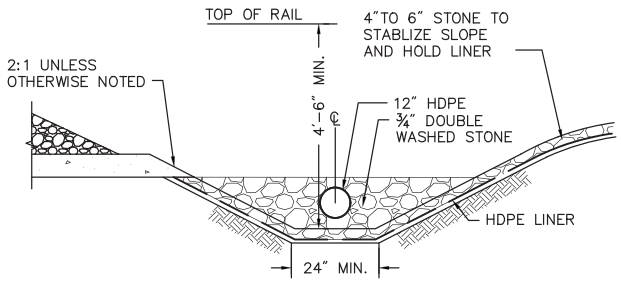


Figure 4.17-7
Typical Stormwater Treatment
Underdrain With Cleanouts Near Critical Wetland Resources

\\MABOS\projects\10111.00\tech\FINAL_EIS_EIR\Stormwater\Data\Stations\Figures\Stormwater Examples - Typical Stormwater Treatment.dwg Printing Date: 6/21/2012 1:43 PM





HDPE – LINED SWALE

SCALE: NTS

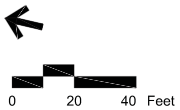
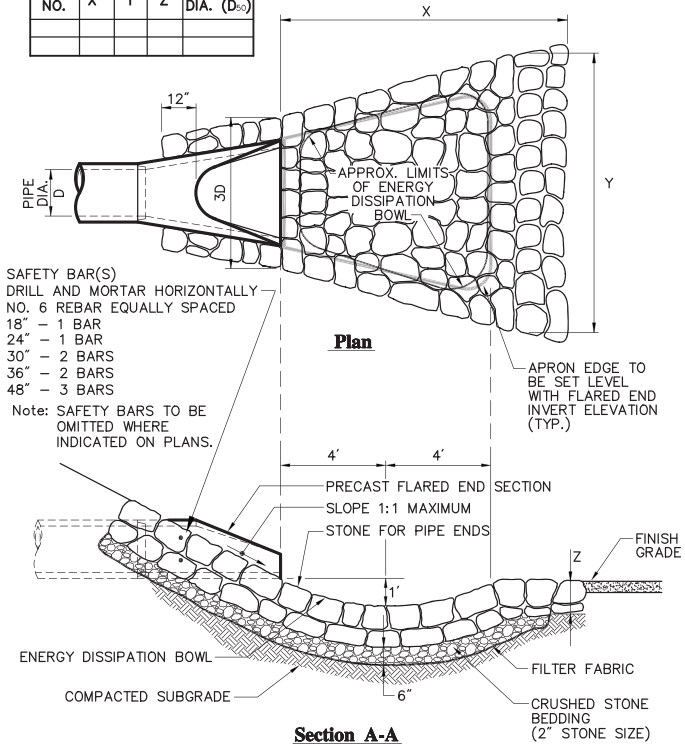


Figure 4.17-8
Typical Stormwater Treatment
HDPE - Lined Swale Near Vernal Pool or Zone 1

\\MABOS\projects\10111.00\tech\FINAL_EIS_EIR\Stormwater\Data\Stations\Figures\Stormwater Examples - Typical Stormwater Treatment.dwg Printing Date: 6/21/2012 1:46 PM

\\MABOS\projects\10111.00\tech\FINAL_EIS_EIR\Stormwater\Data\Stations\Figures\Stormwater Examples - Typical Stormwater Treatment.dwg Printing Date: 6/21/2012 9:44 AM

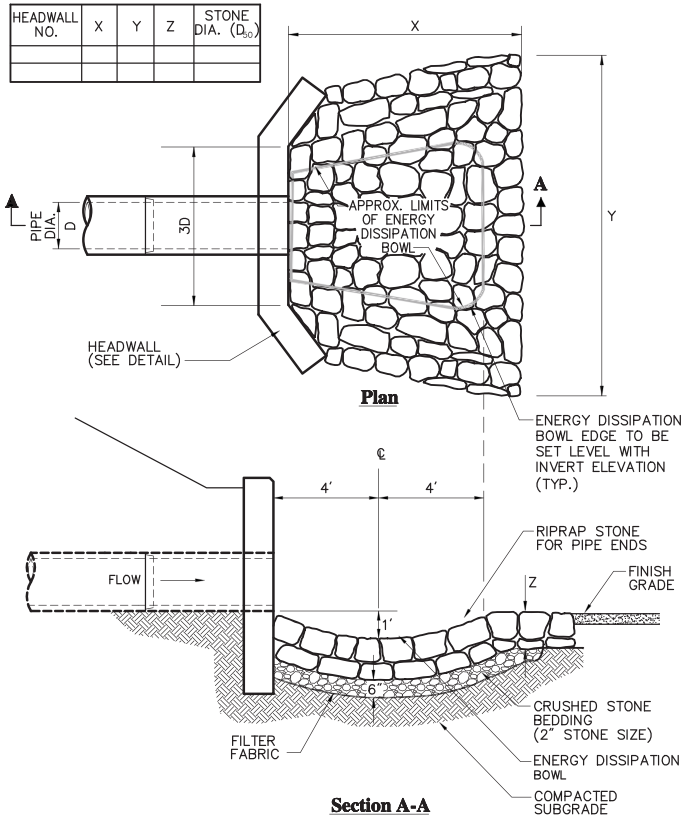
FES NO.	X	Y	Z	STONE DIA. (D_{50})



FLARED END SECTION WITH STONE PROTECTION

SCALE: NTS

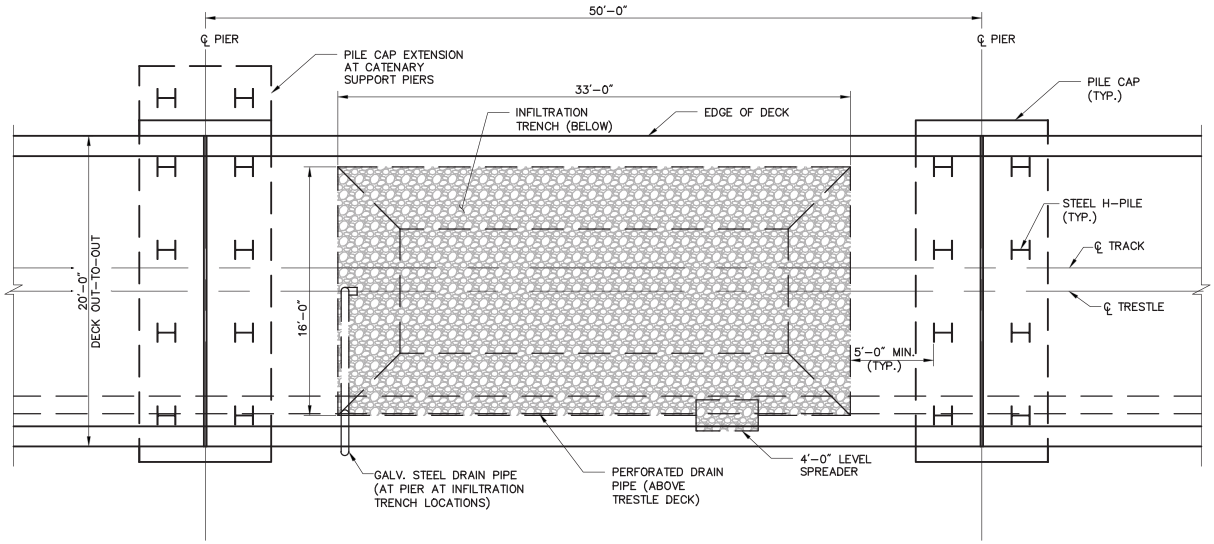
HEADWALL NO.	X	Y	Z	STONE DIA. (D_{50})



HEADWALL WITH STONE PROTECTION

SCALE: NTS

Figure 4.17-9
Typical Stormwater Treatment
Headwall and Flared End Section Details

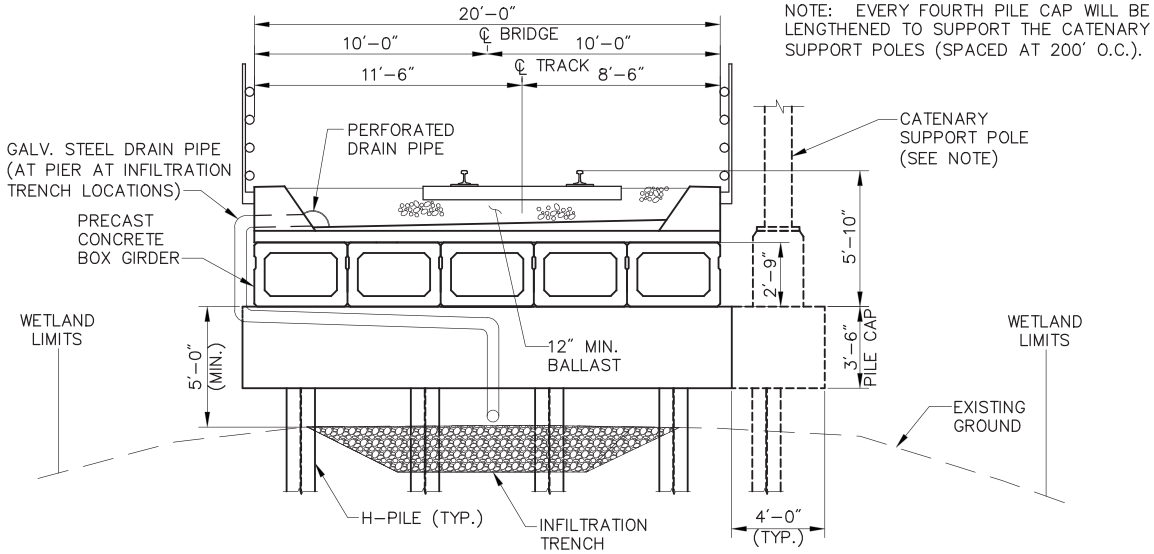


PLAN

SCALE: $\frac{1}{8}$" = 1'-0"

\\MABOS\projects\10111.00\tech\FINAL_EIS_EIR\Stormwater\Data\Stations\Figures\Hockomock Trestle.dwg Printing Date: 6/21/2012 10:14 AM

Figure 4.17-10
Trestle Through Hockomock Swamp
Typical Plan

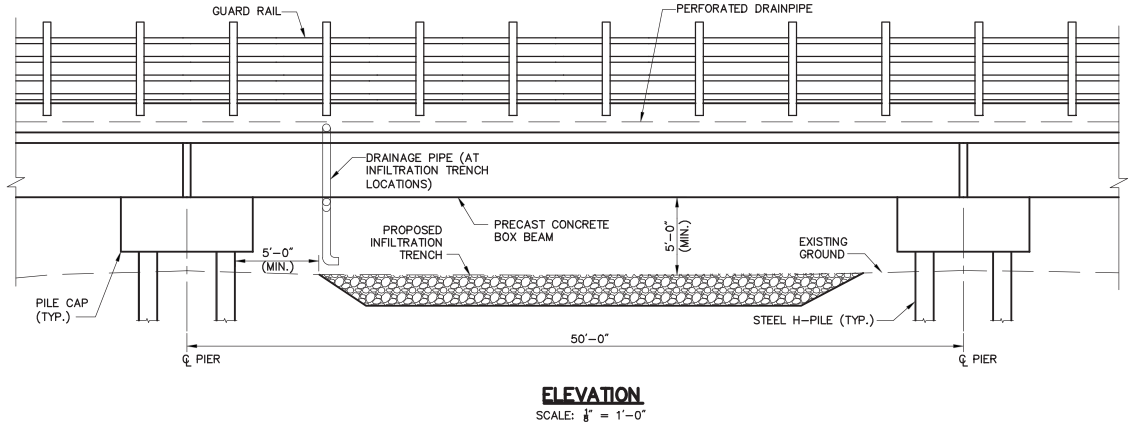


TYPICAL CROSS SECTION AT PIER

SCALE: 1/8″ = 1–0′

\\MABOS\projects\10111.00\tech\FINAL_EIS_EIR\Stormwater\Data\Stations\Figures\Hockomock Trestle.dwg Printing Date: 6/21/2012 10:18 AM

Figure 4.17-11
Trestle Through Hockomock Swamp
Typical Section

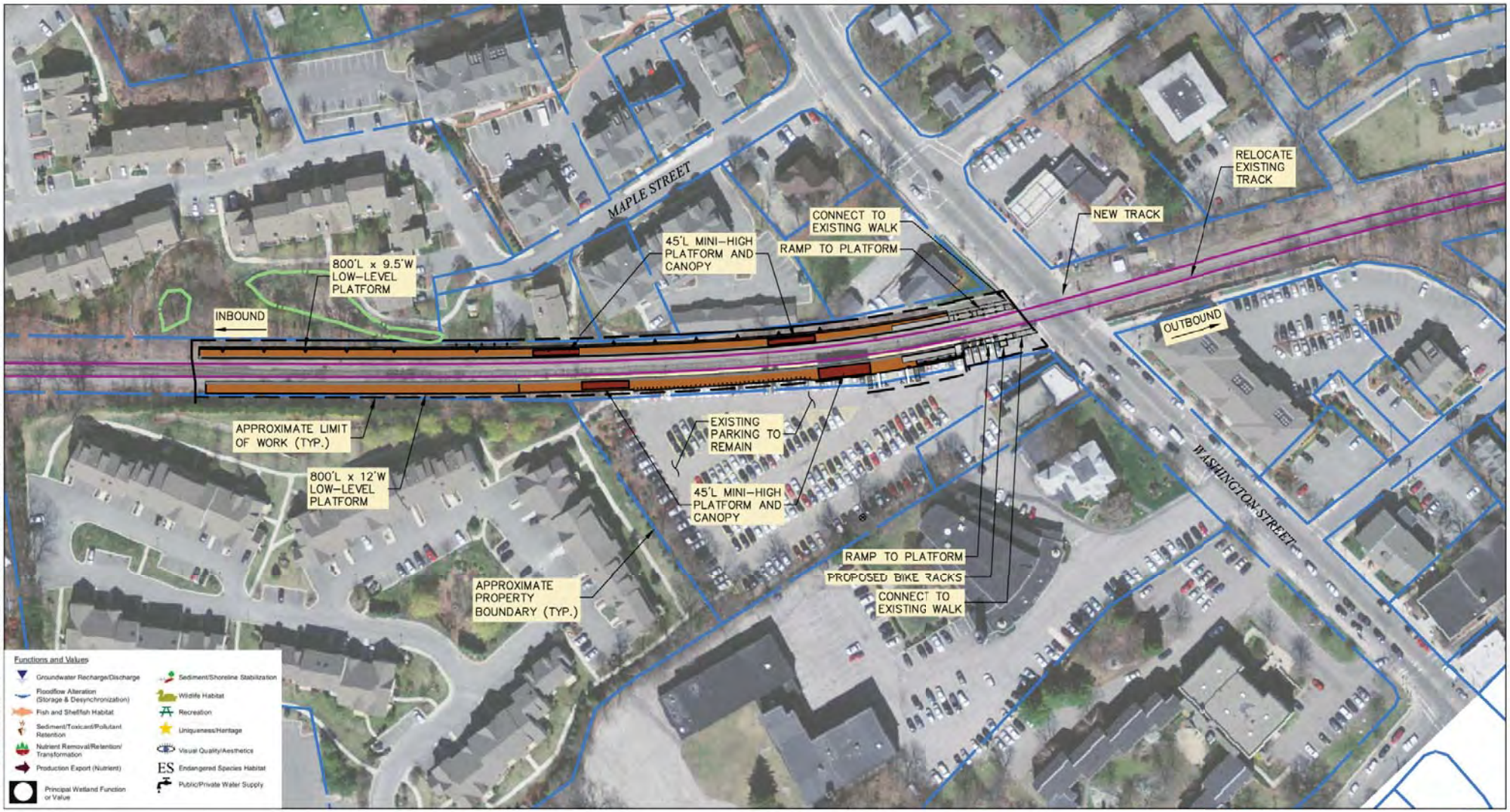


ELEVATION

SCALE: 1/8" = 1'-0"

\\MABOS\projects\10111.00\tech\FINAL_EIS_EIR\Stormwater\Data\Stations\Figures\Hockomock Trestle.dwg Printing Date: 6/21/2012 10:31 AM

Figure 4.17-12
Trestle Through Hockomock
Typical Elevation



0 50 100 Feet

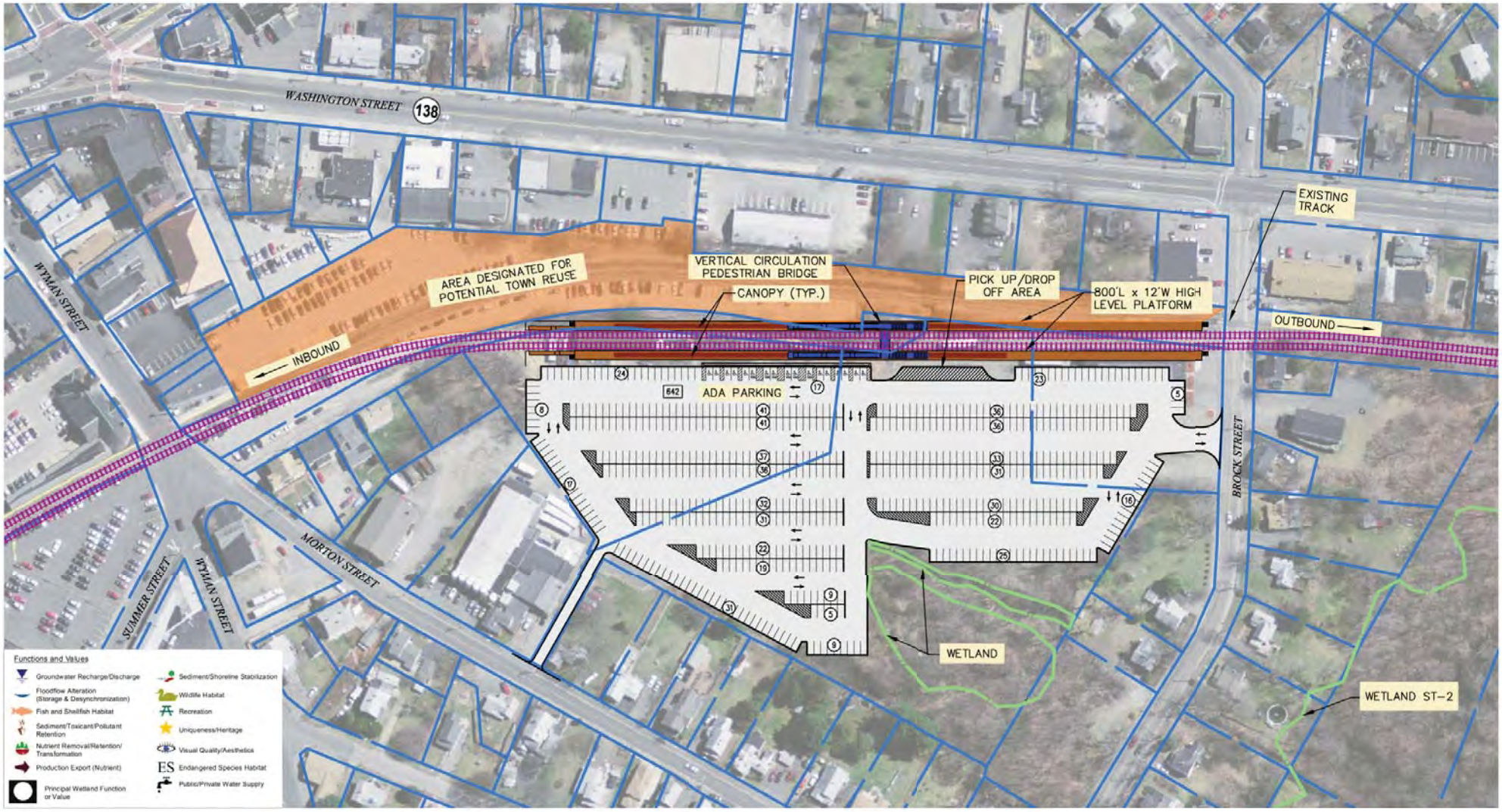
Legend

- Platform
- Canopy
- Transitional Plaza
- Proposed Track
- Property
- Stormwater Management Area
- Limit of Work
- Wetlands
- Impacted Wetlands

Figure 4.17-13

Canton Center Station

Conceptual Station Design

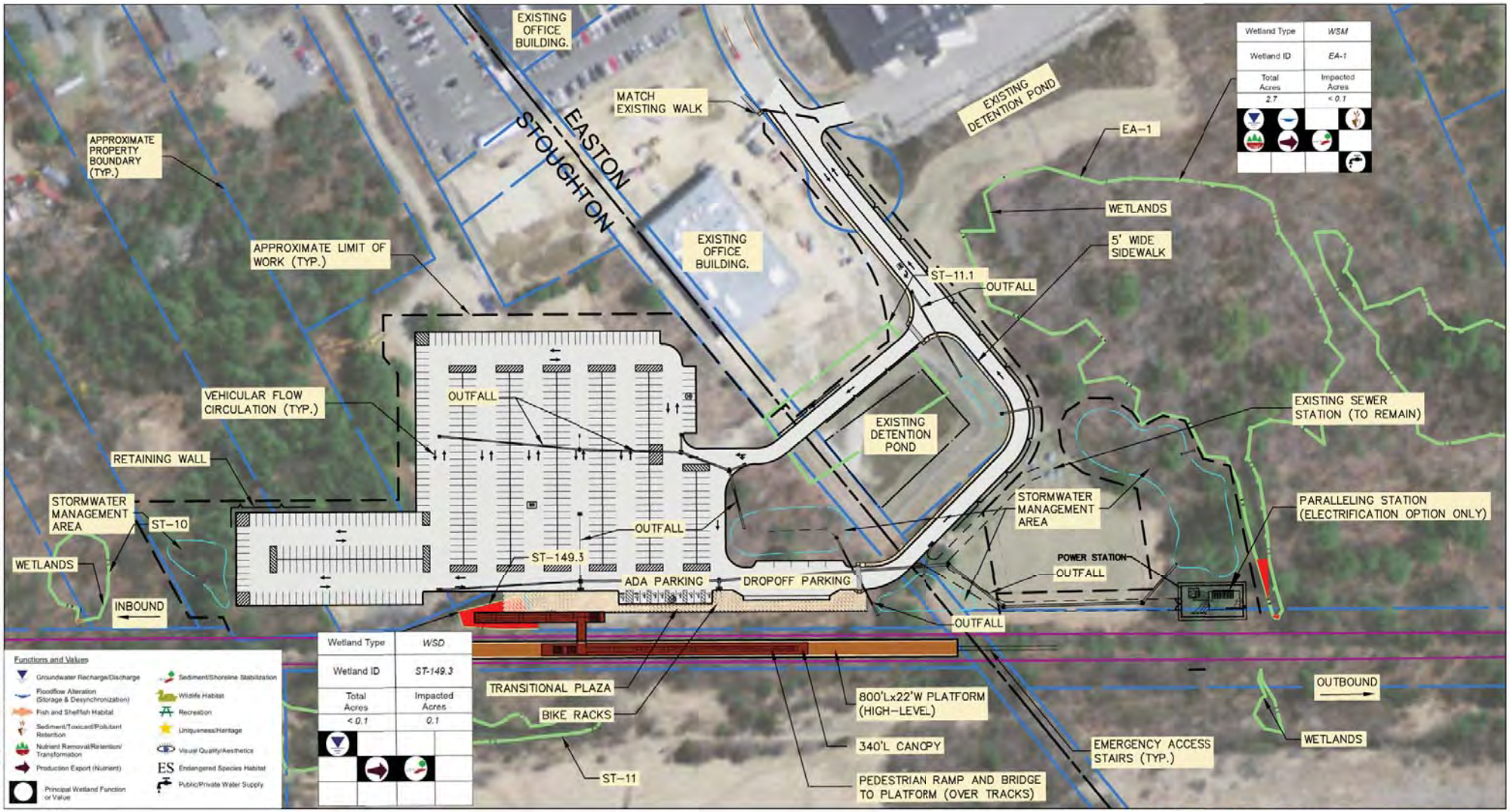


0 60 120 Feet

Legend

- Platform
- Canopy
- Transitional Plaza
- Proposed Track
- Property
- Stormwater Management Area
- Limit of Work
- Wetlands
- Impacted Wetlands

Figure 4.17-14
Stoughton Station
Conceptual Station Design



0 60 120 Feet

Legend

- Platform
- Canopy
- Transitional Plaza
- Proposed Track
- Property
- Stormwater Management Area
- Limit of Work
- Wetlands
- Impacted Wetlands

Figure 4.17-15a
North Easton Station
Conceptual Station Design

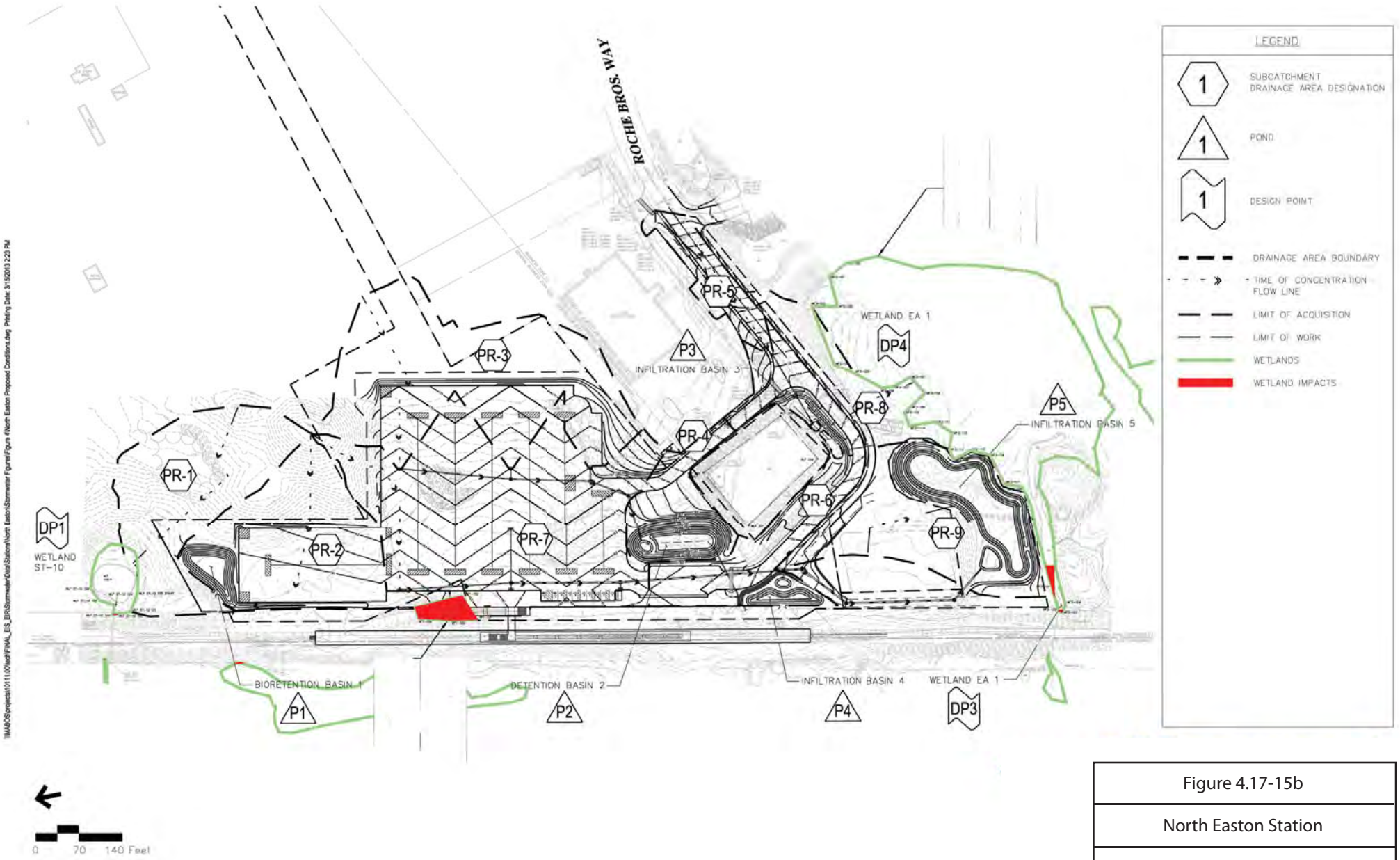
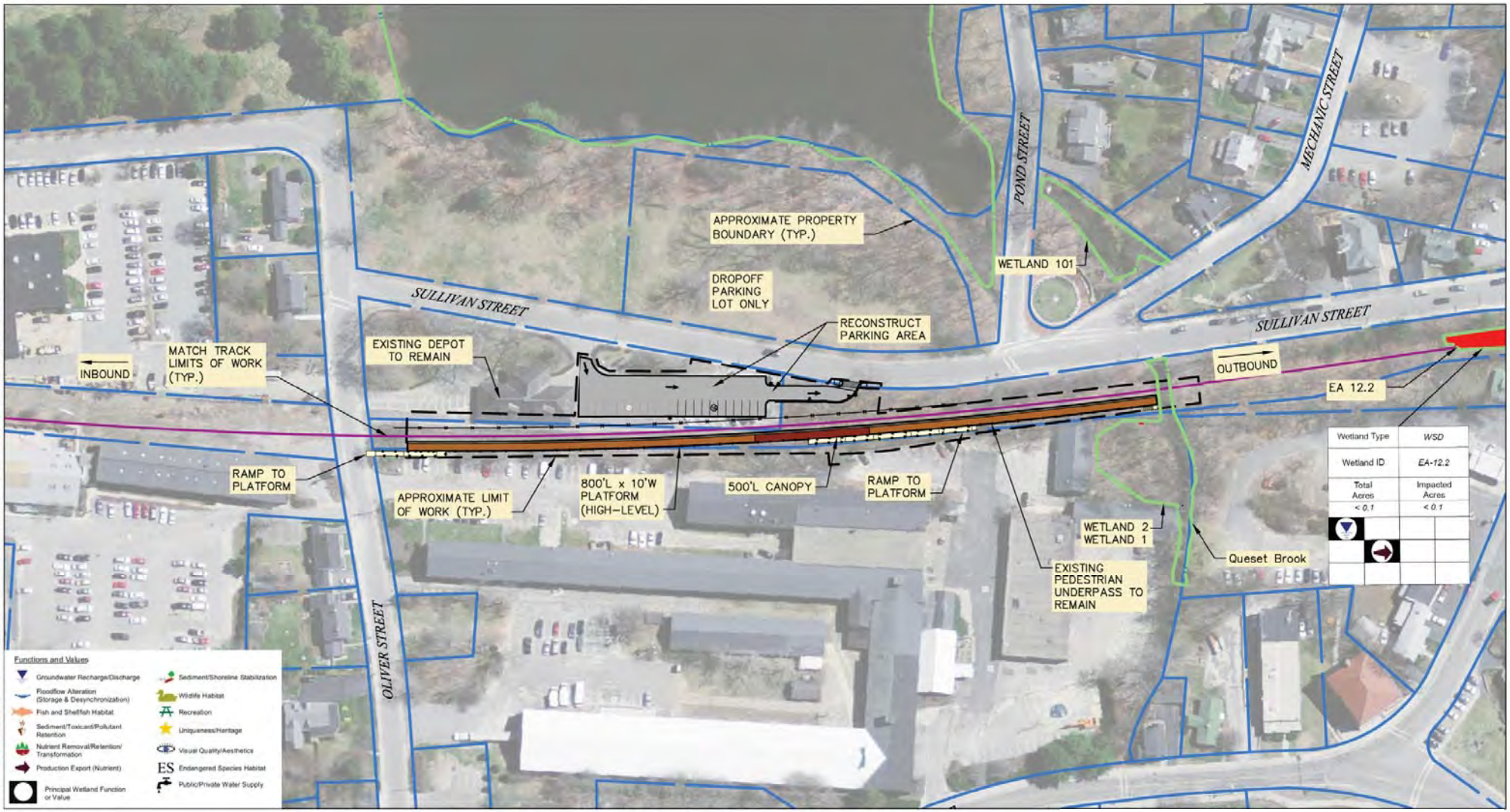


Figure 4.17-15b
North Easton Station
Proposed Conditions Drainage Areas



0 50 100 Feet

Legend

- Platform
- Canopy
- Transitional Plaza
- Proposed Track
- Property
- Stormwater Management Area
- Limit of Work
- Wetlands
- Impacted Wetlands

Figure 4.17-16

Wetland Impacts

Easton Village Station

0 75 150 Feet

Legend

- Platform
- Canopy
- Transitional Plaza
- Proposed Track
- Property
- Stormwater Management Area
- Limit of Work
- Wetlands
- Impacted Wetlands

Figure 4.17-17a
Raynham Park Station
Conceptual Station Design

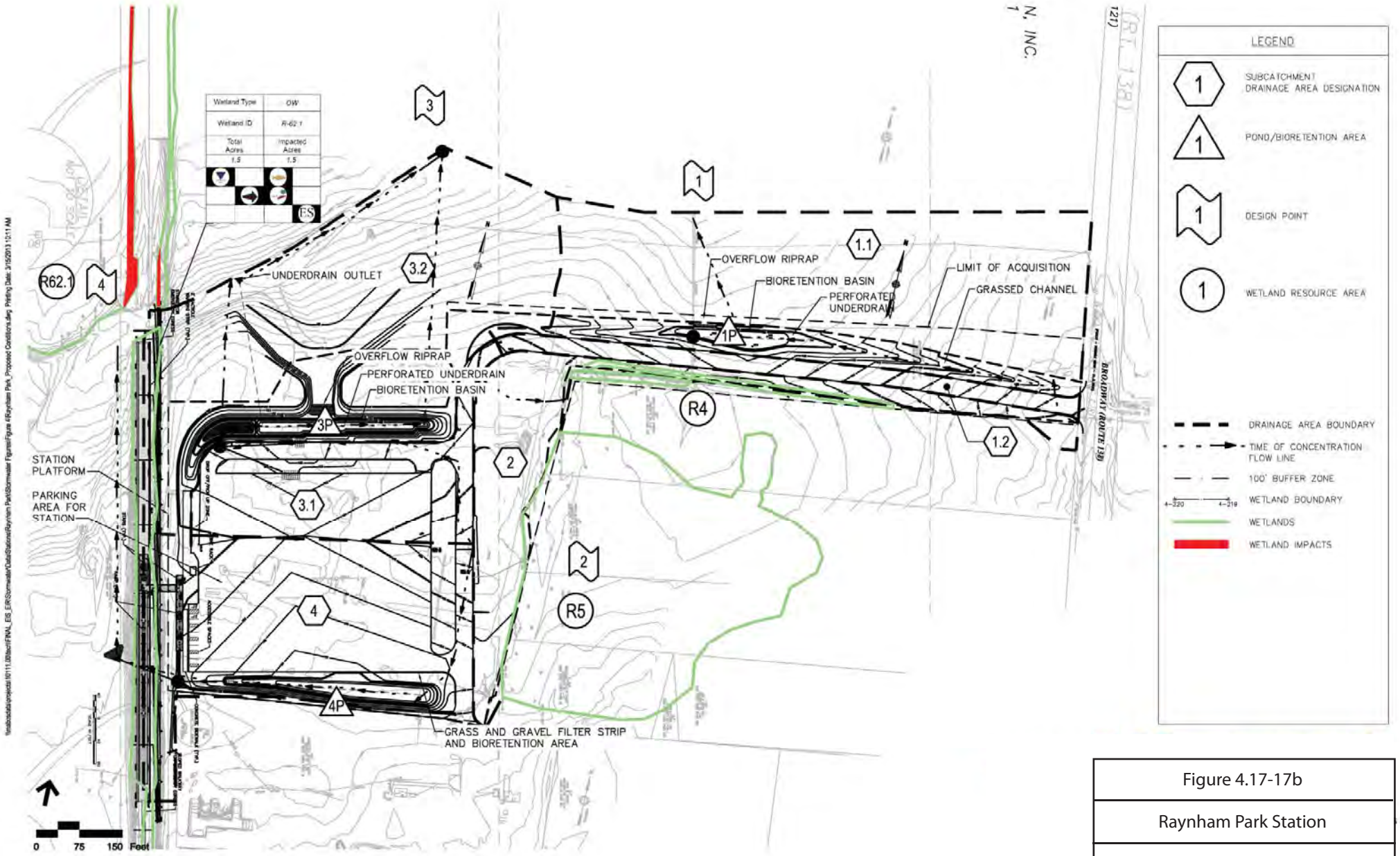
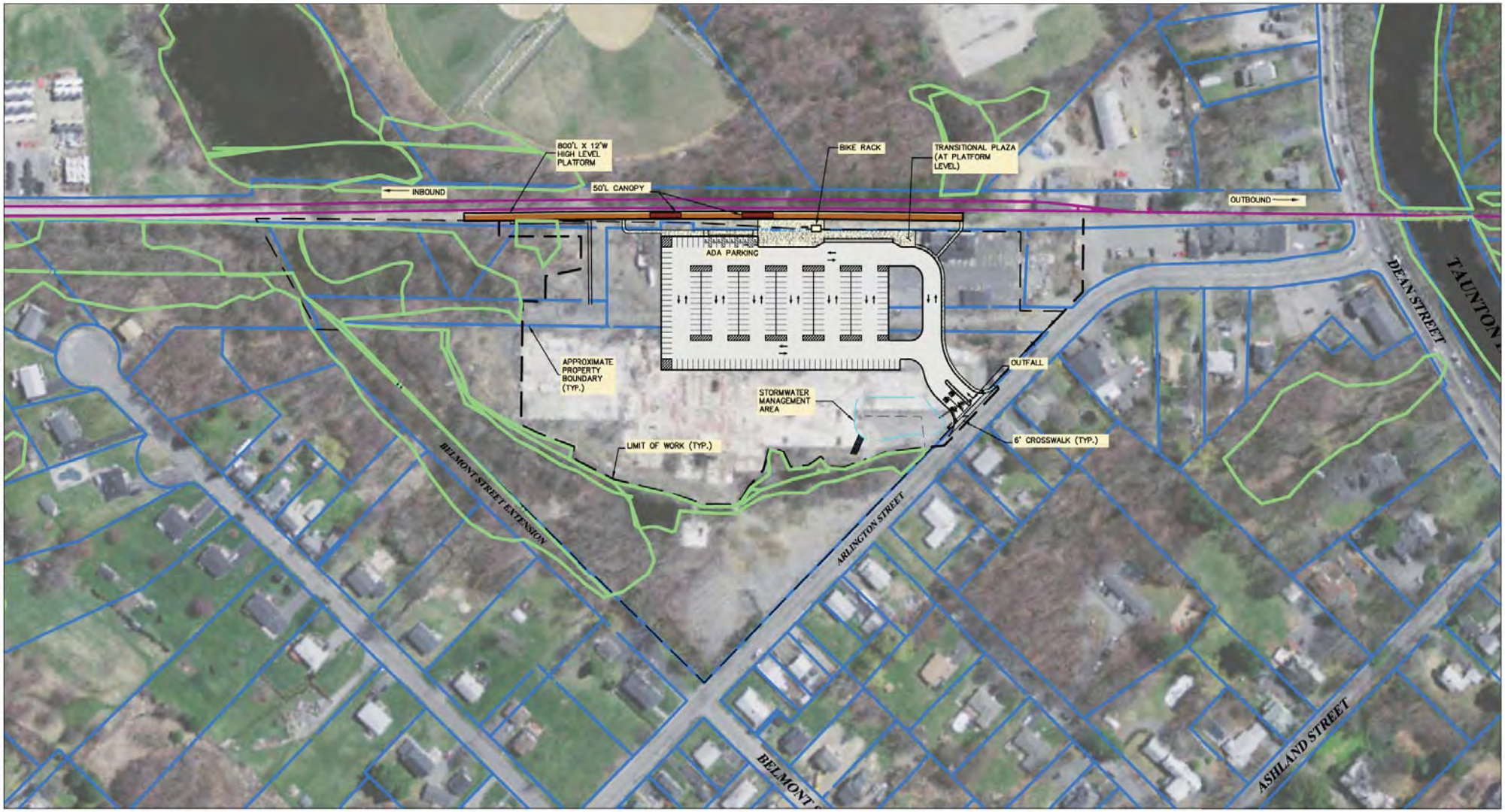


Figure 4.17-17b

Raynham Park Station

Proposed Conditions Drainage Areas



0 75 150 Feet

Legend

- Platform
- Canopy
- Transitional Plaza
- Proposed Track
- Property
- Stormwater Management Area
- Limit of Work
- Wetlands

Figure 4.17-18a
Taunton Station
Conceptual Station Design

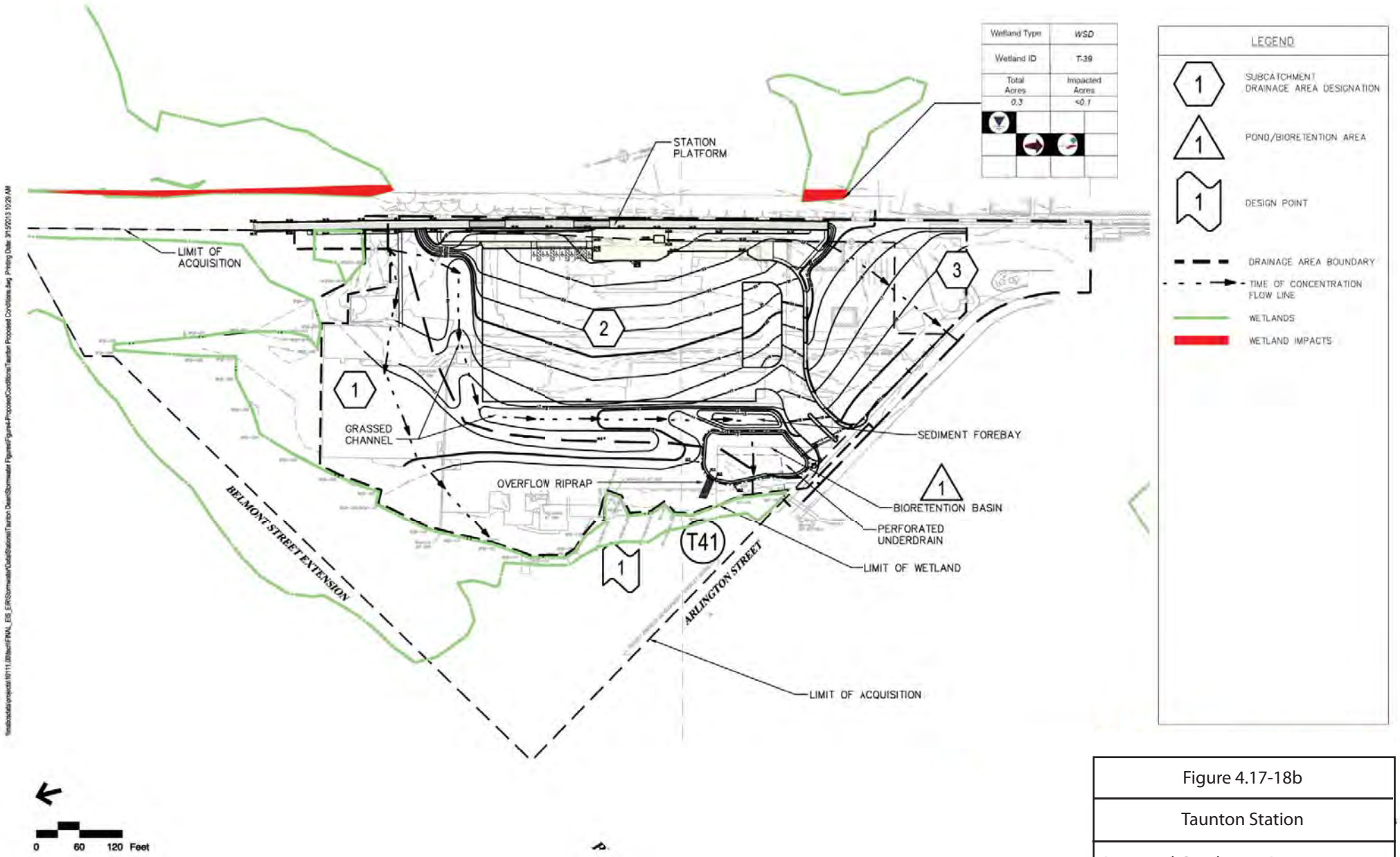


Figure 4.17-18b

Taunton Station

Proposed Conditions Drainage Areas

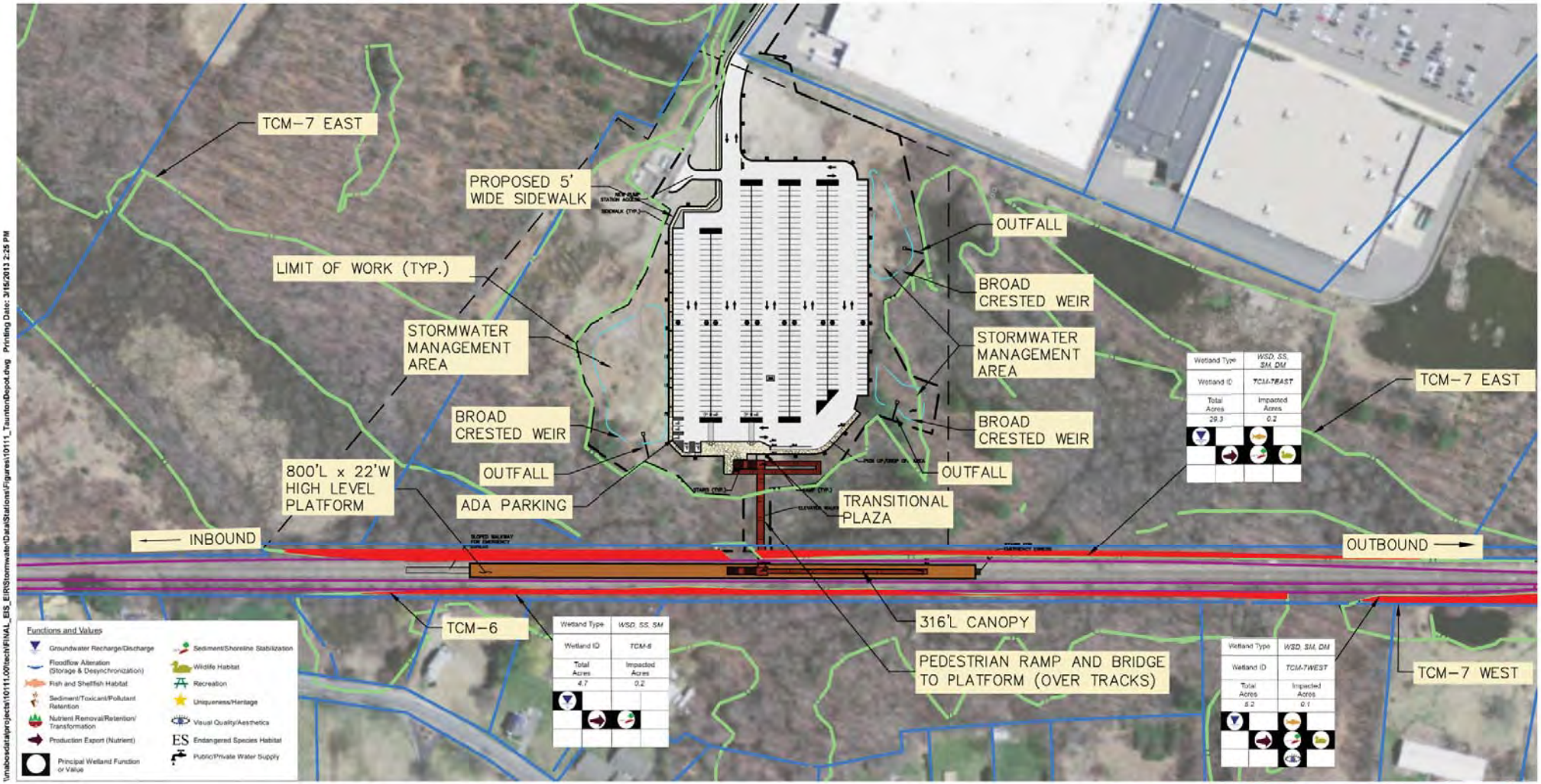


Figure 4.17-19a

Taunton Depot Station

Conceptual Station Design

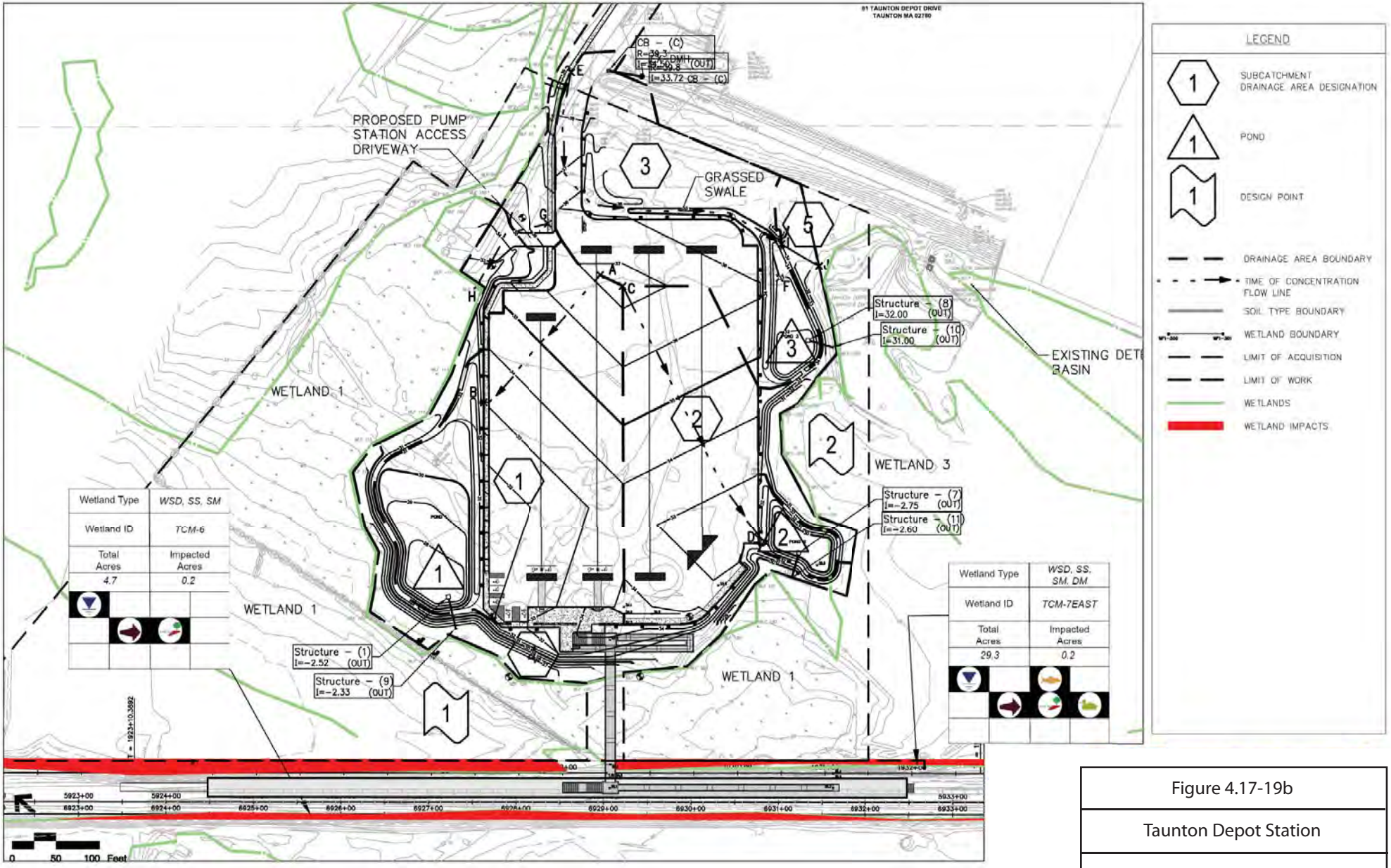
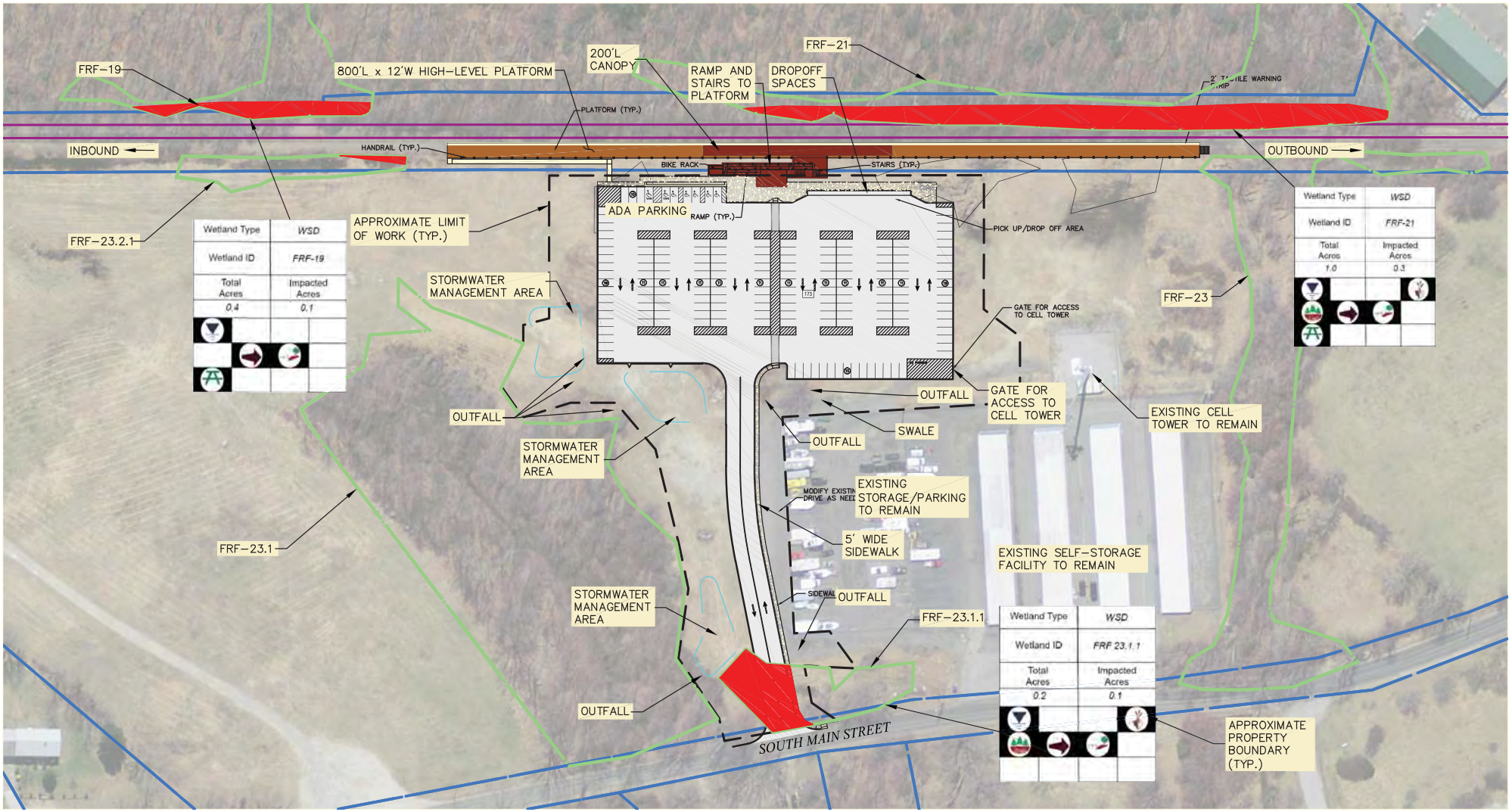


Figure 4.17-19b

Taunton Depot Station

Proposed Conditions Drainage Areas



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0 50 100 Feet

Legend

- Platform
- Canopy
- Transitional Plaza
- Proposed Track
- Property
- Stormwater Management Area
- Limit of Work
- Wetlands
- Impacted Wetlands

Figure 4.17-20a

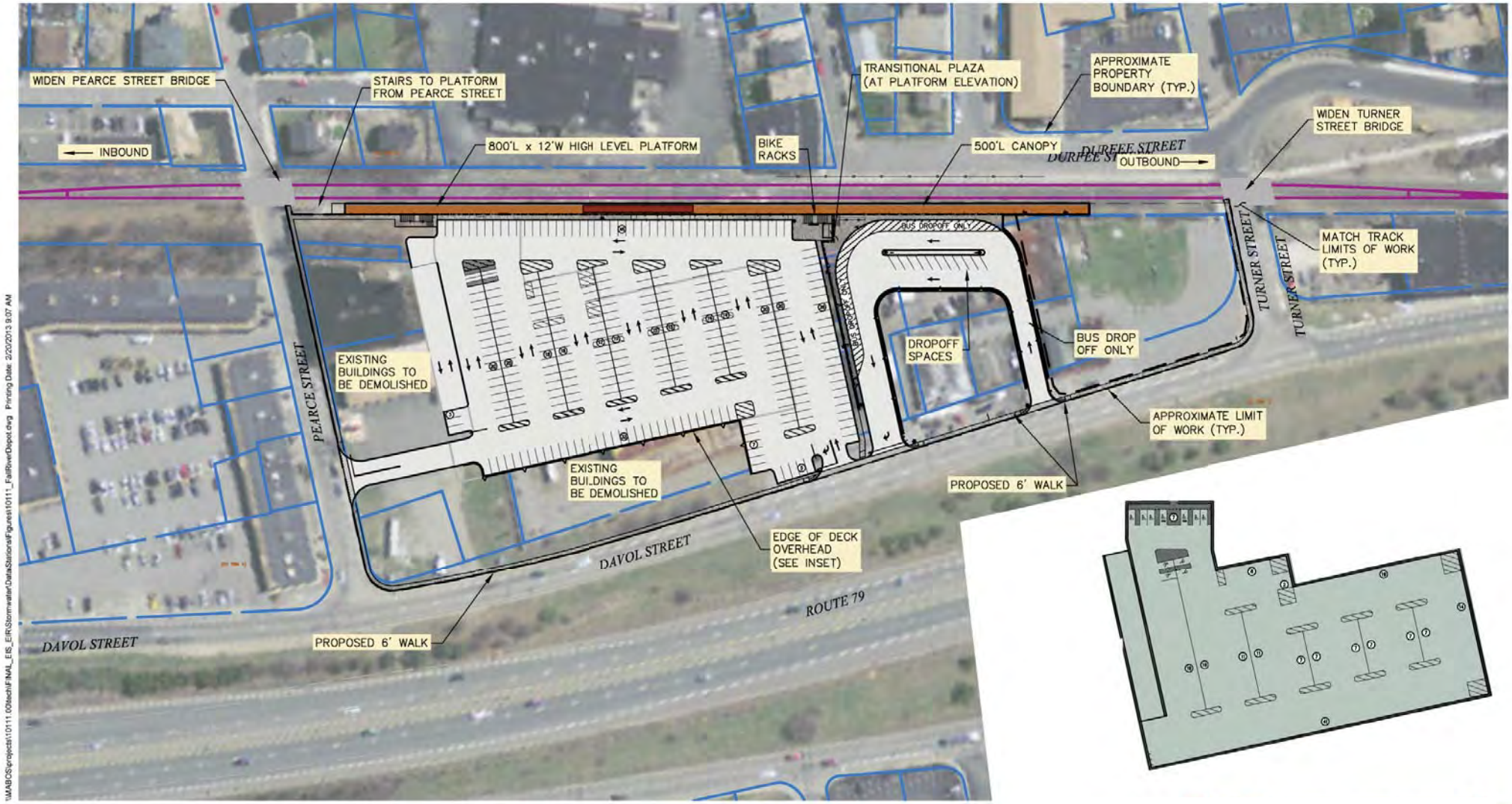
Wetland Impacts

Freetown Station

Figure 4.17-20b

Freetown Station

Proposed Conditions Drainage Areas

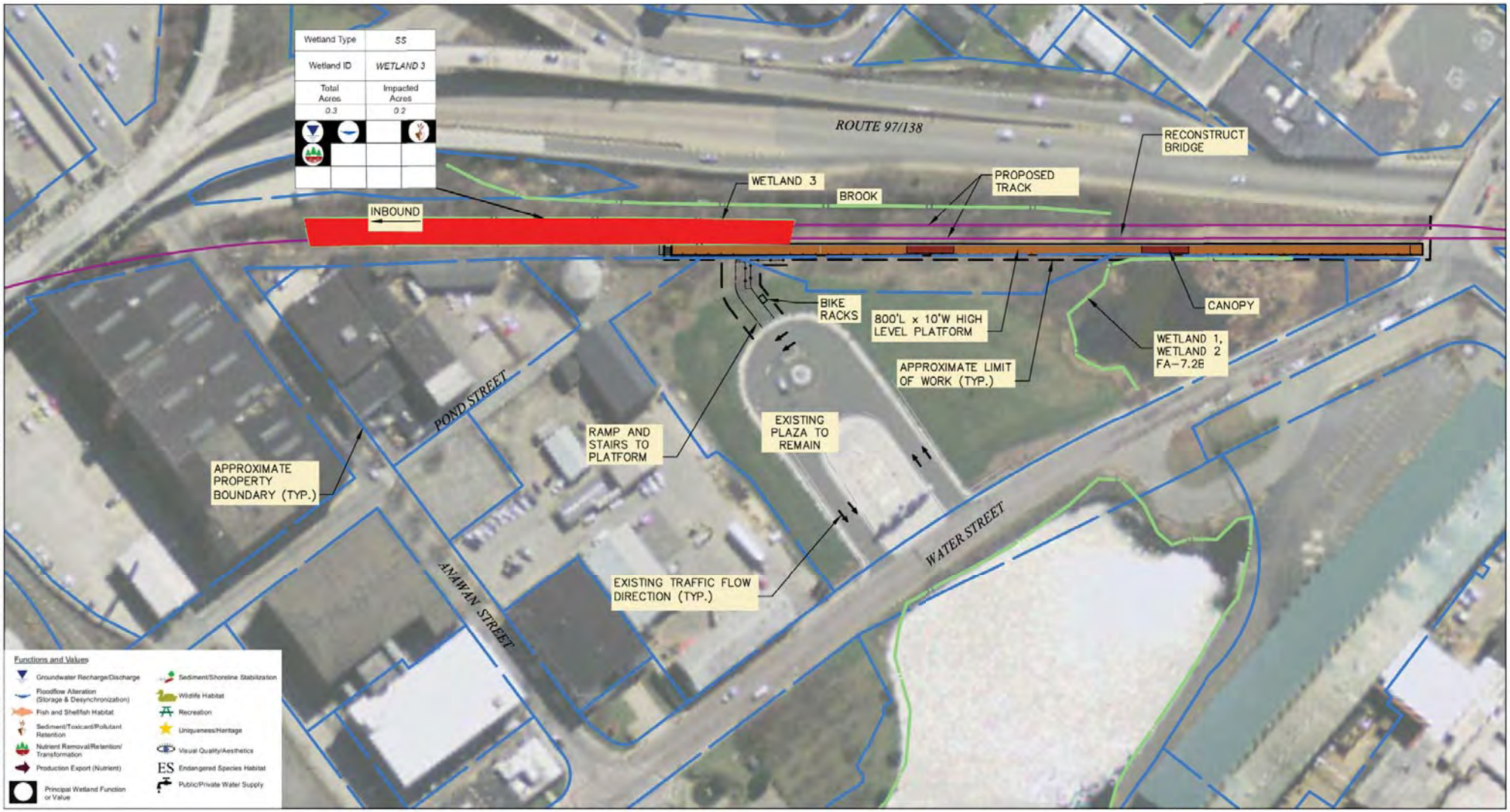


0 50 100 Feet

Legend

- Platform
- Canopy
- Transitional Plaza
- Proposed Track
- Property
- Stormwater Management Area
- Limit of Work
- Wetlands

Figure 4.17-21
Fall River Depot Station
Conceptual Station Design



0 50 100 Feet

Legend

- Platform
- Canopy
- Transitional Plaza
- Proposed Track
- Property
- Stormwater Management Area
- Limit of Work
- Wetlands
- Impacted Wetlands

Figure 4.17-22

Battleship Cove Station

Conceptual Station Design

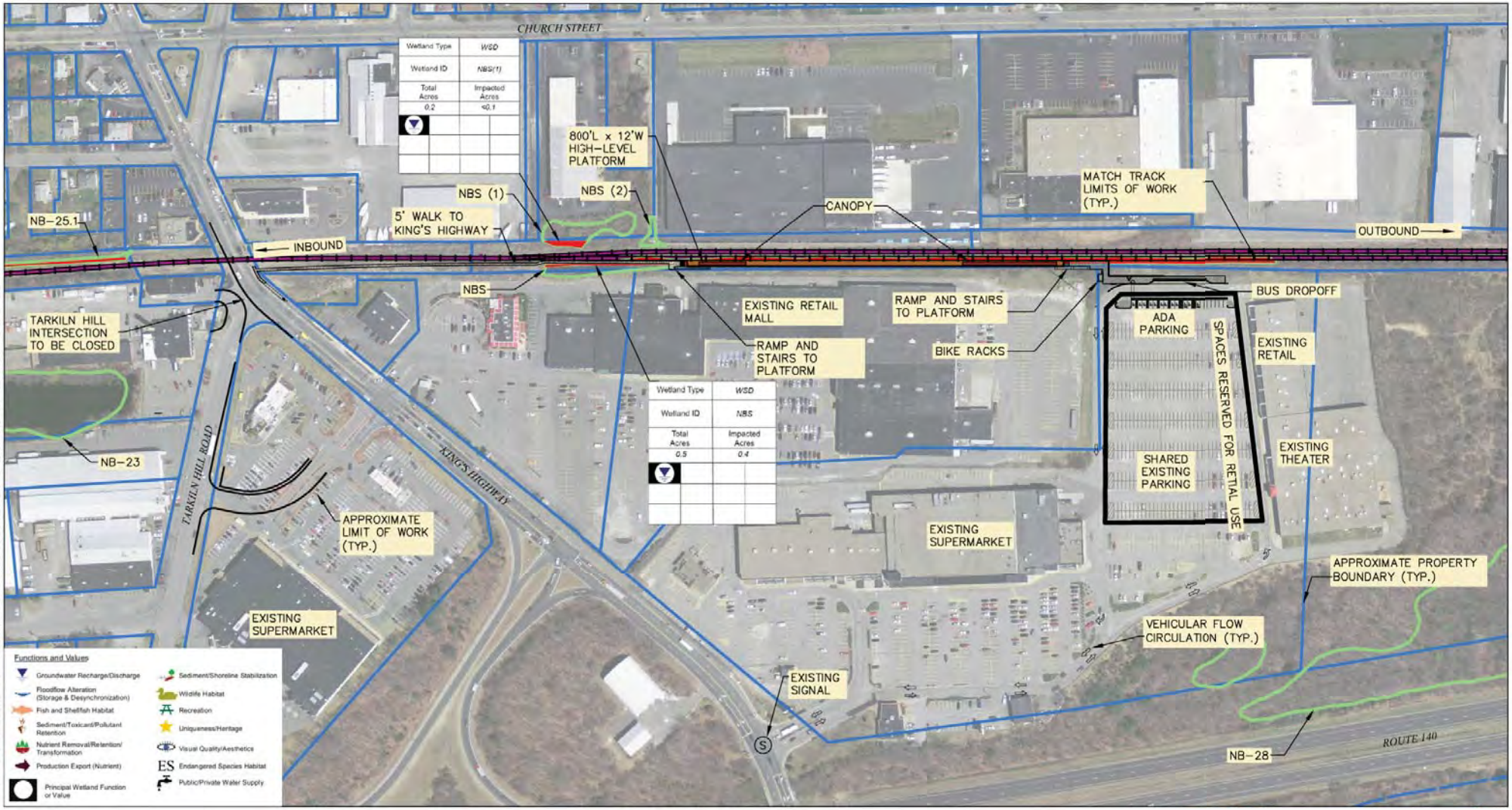
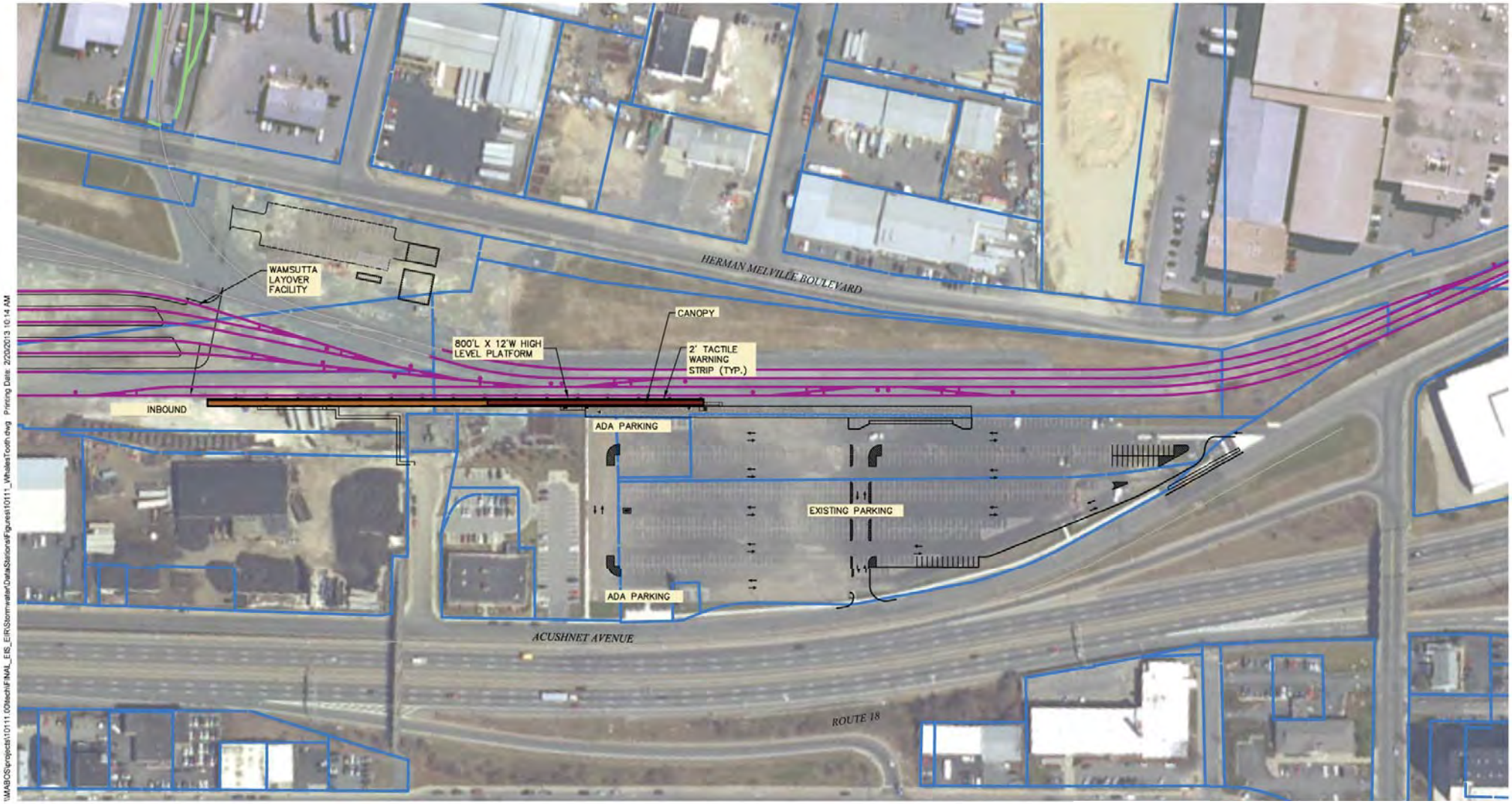


Figure 4.17-23

King's Highway Station

Conceptual Station Design

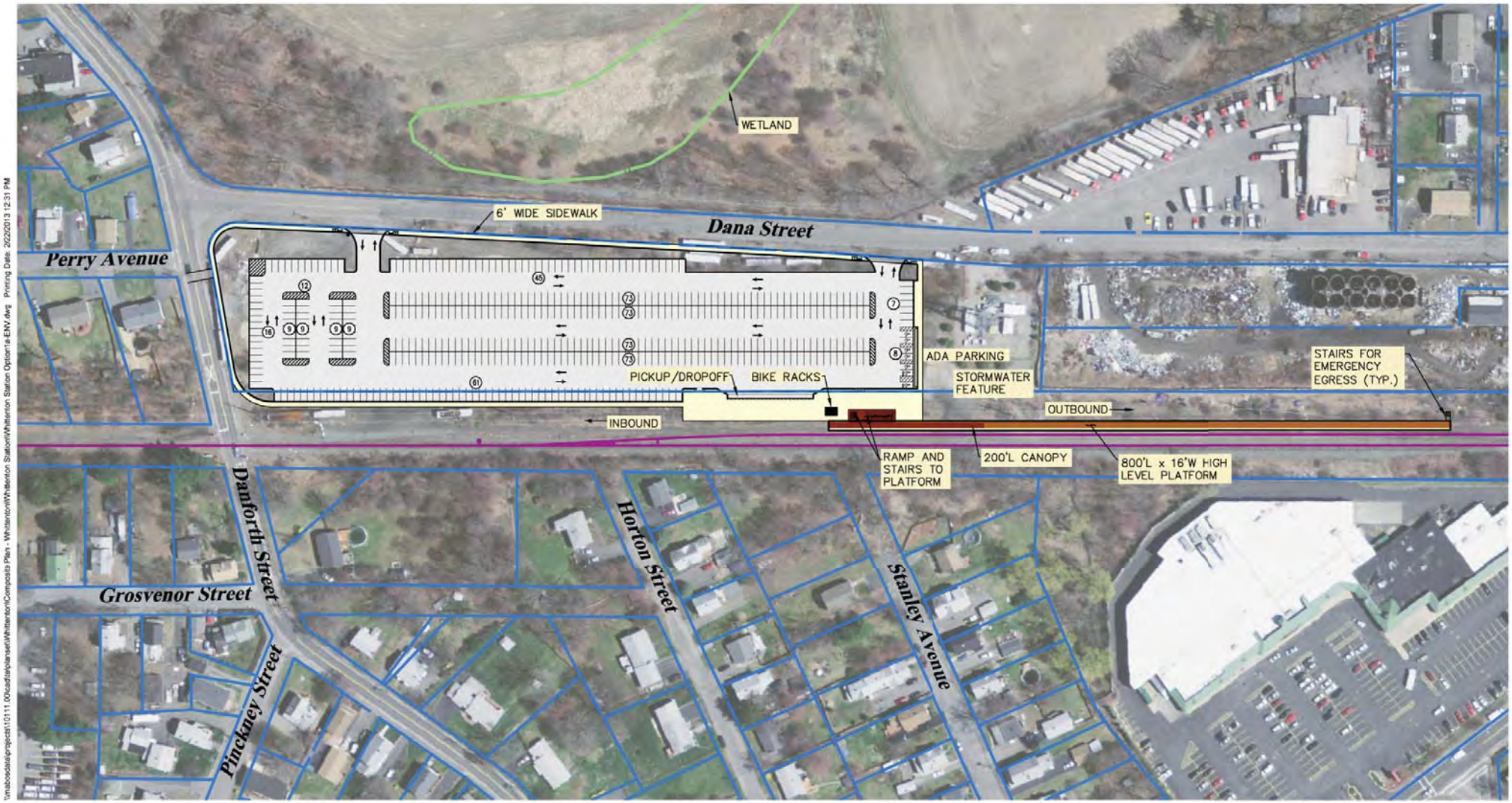


0 75 150 Feet

Legend

- Platform
- Canopy
- Transitional Plaza
- Proposed Track
- Property
- Stormwater Management Area
- Limit of Work
- Wetlands

Figure 4.17-24
Whale's Tooth Station
Conceptual Station Design

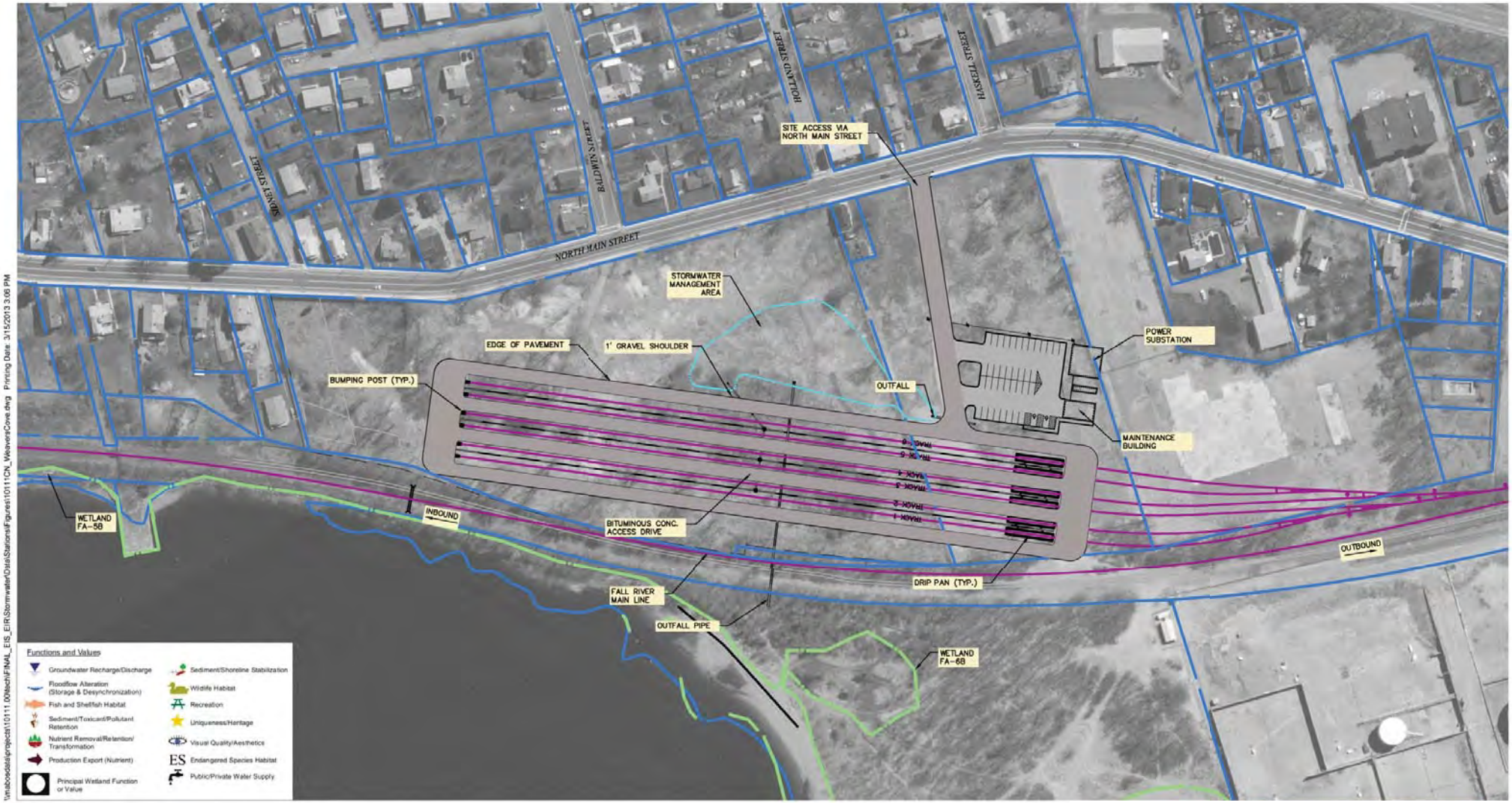


0 60 120 Feet

Legend

- Platform
- Canopy
- Transitional Plaza
- Proposed Track
- Property
- Stormwater Management Area
- Limit of Work
- Wetlands
- Impacted Wetlands

Figure 4.17-25
Dana Street Station
Conceptual Station Design

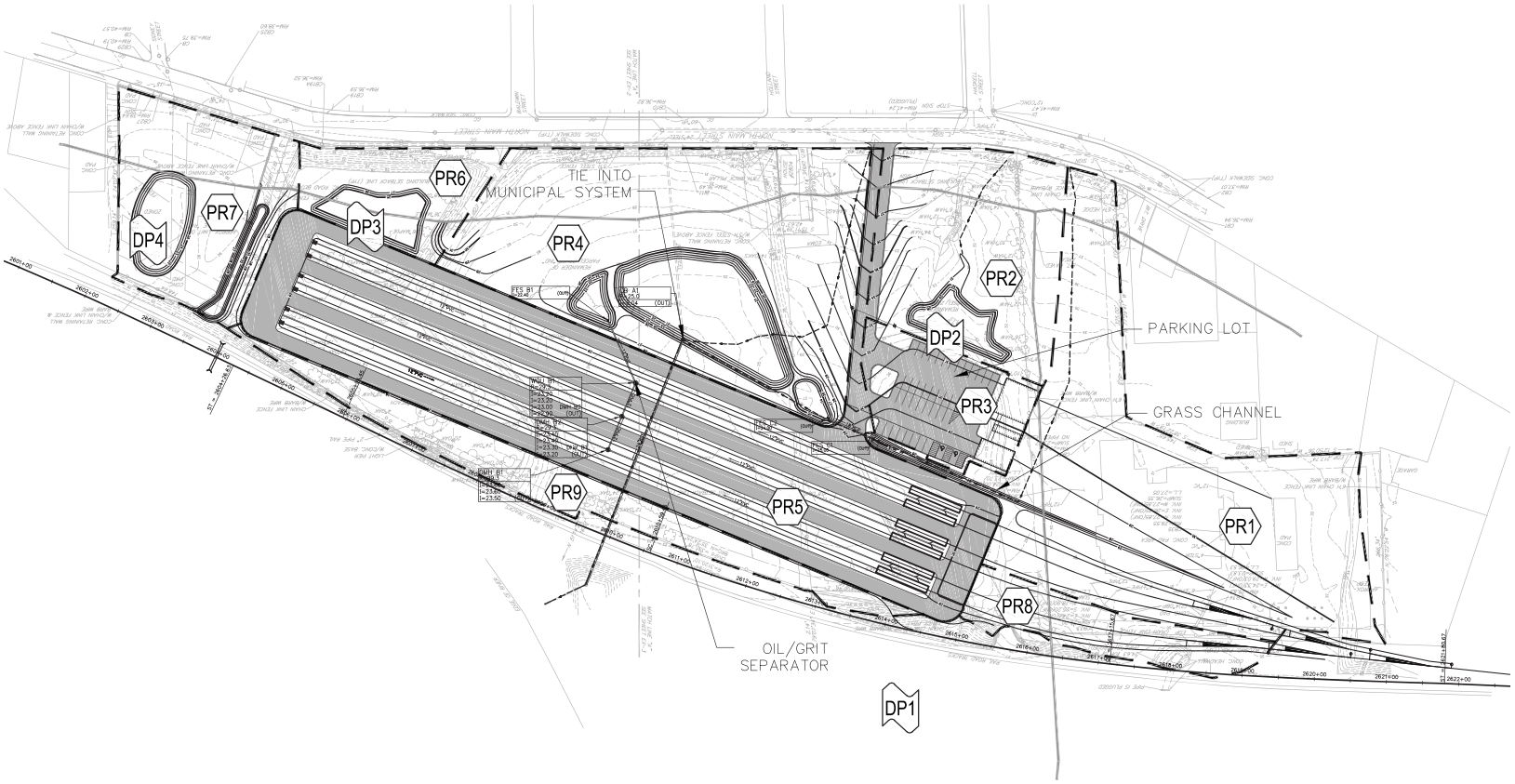


0 75 150 Feet

Legend

- Platform
- Canopy
- Transitional Plaza
- Proposed Track
- Property
- Stormwater Management Area
- Limit of Work
- Wetlands
- Impacted Wetlands

Figure 4.17-26a
Weaver's Cove East Layover Facility
Conceptual Facility Design



LEGEND

- 1 — SUBCATCHMENT DRAINAGE AREA DESIGNATION
- 1 — DESIGN POINT
- DRAINAGE AREA BOUNDARY
- TIME OF CONCENTRATION FLOW LINE
- SOIL TYPE BOUNDARY
- WETLAND BOUNDARY (WF1-301, WF1-300)
- ACQUISITION LIMIT
- LIMIT OF WORK

0 80 160 Feet

Figure 4.17-26b

Weaver's Cove East Layover Facility

Proposed Conditions Drainage Areas

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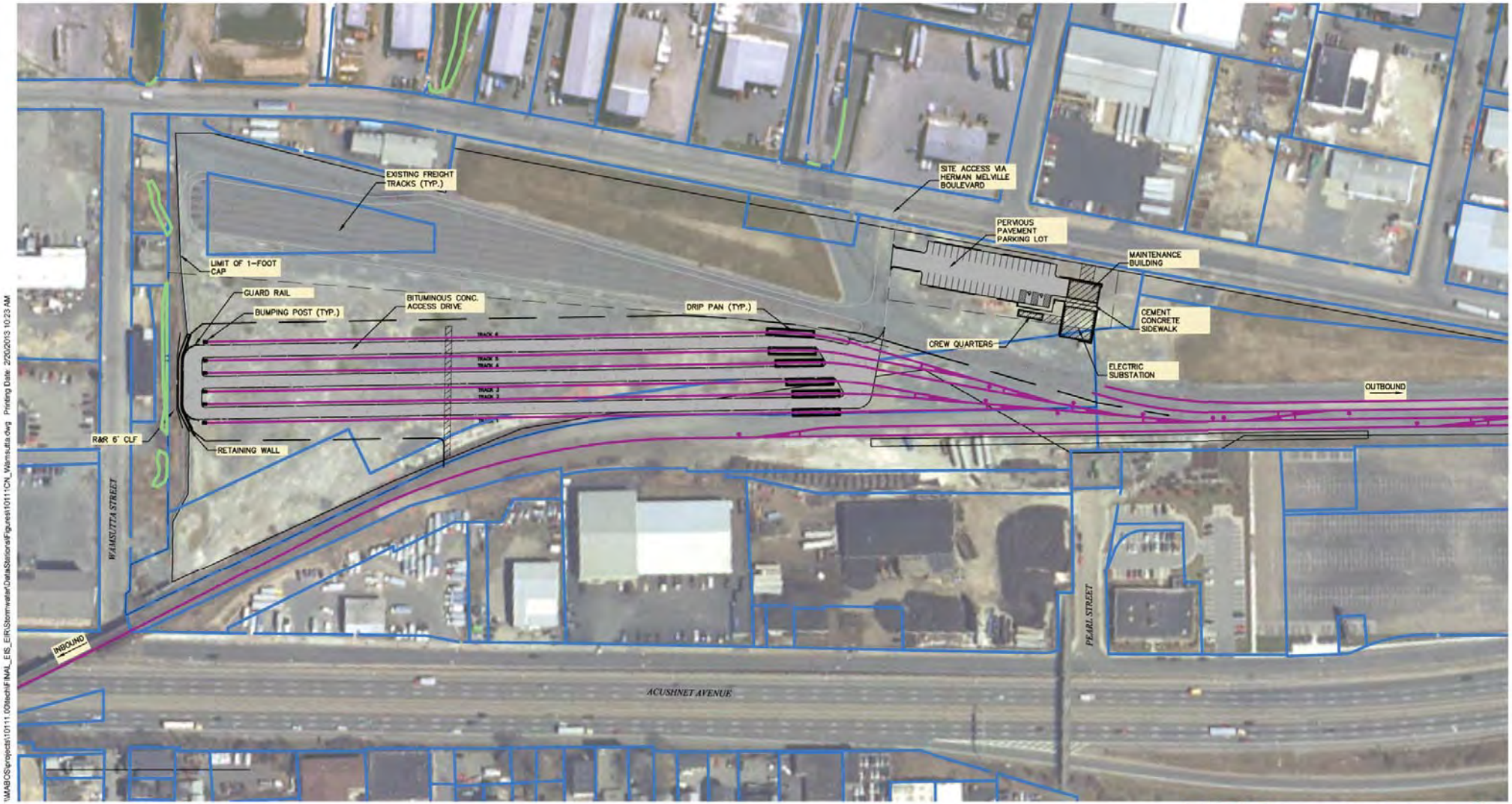

Figure 4.17-27

Wamsutta Layover Facility

Conceptual Facility Design