

Bell Rock Substation Rebuild Project and the Acushnet to Fall River Reliability Project

Acushnet, New Bedford, Dartmouth, and Fall River, Massachusetts

Appendix A - Figures



1" = 1 miles

Prepared For:

New England Power Company
40 Sylvan Road
Waltham, MA 02451

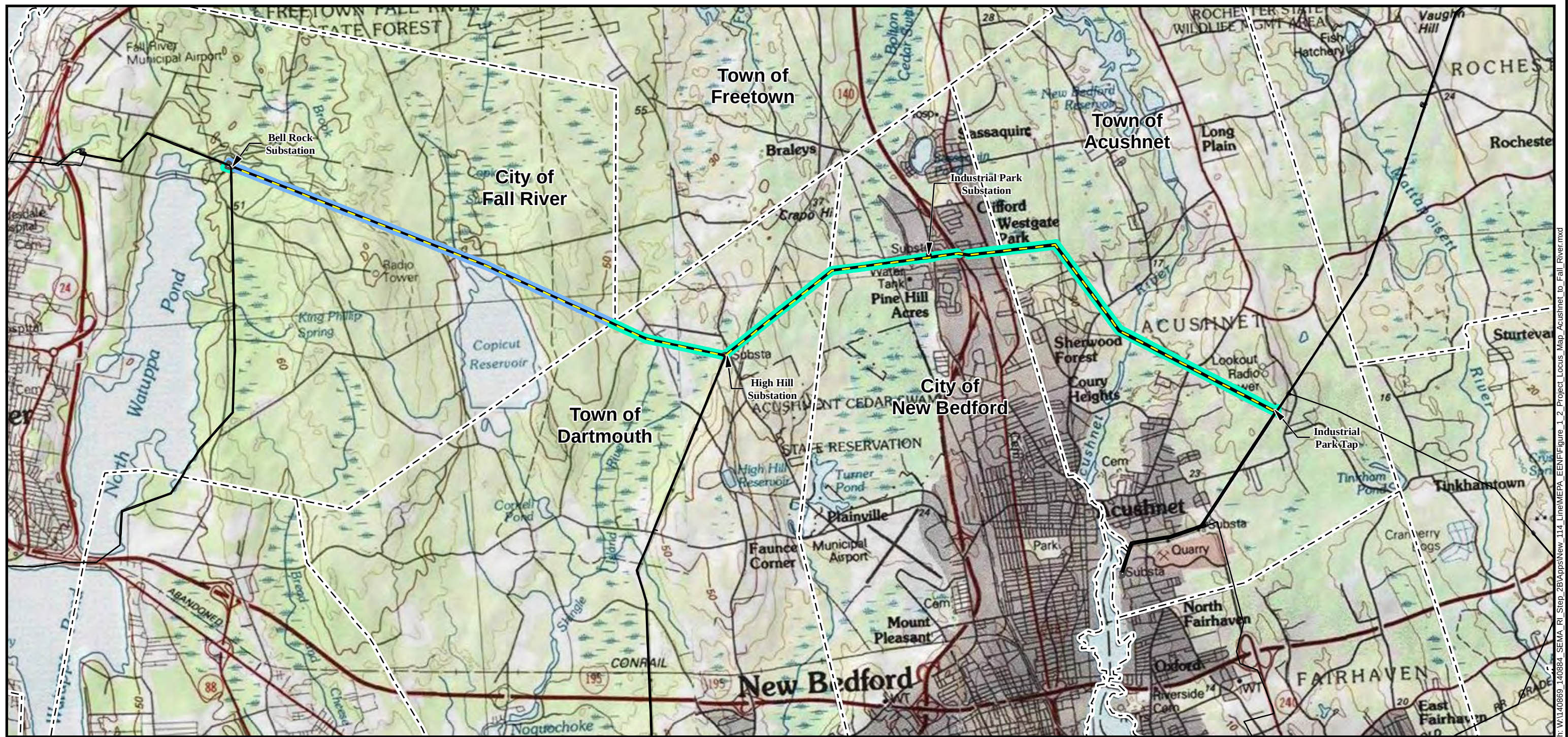
Eversource
247 Station Drive
Westwood, MA 02090

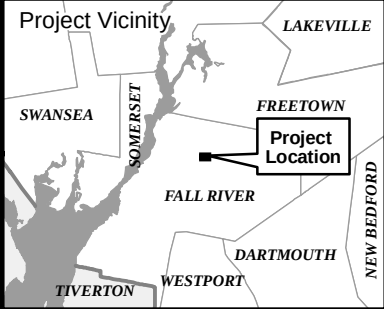
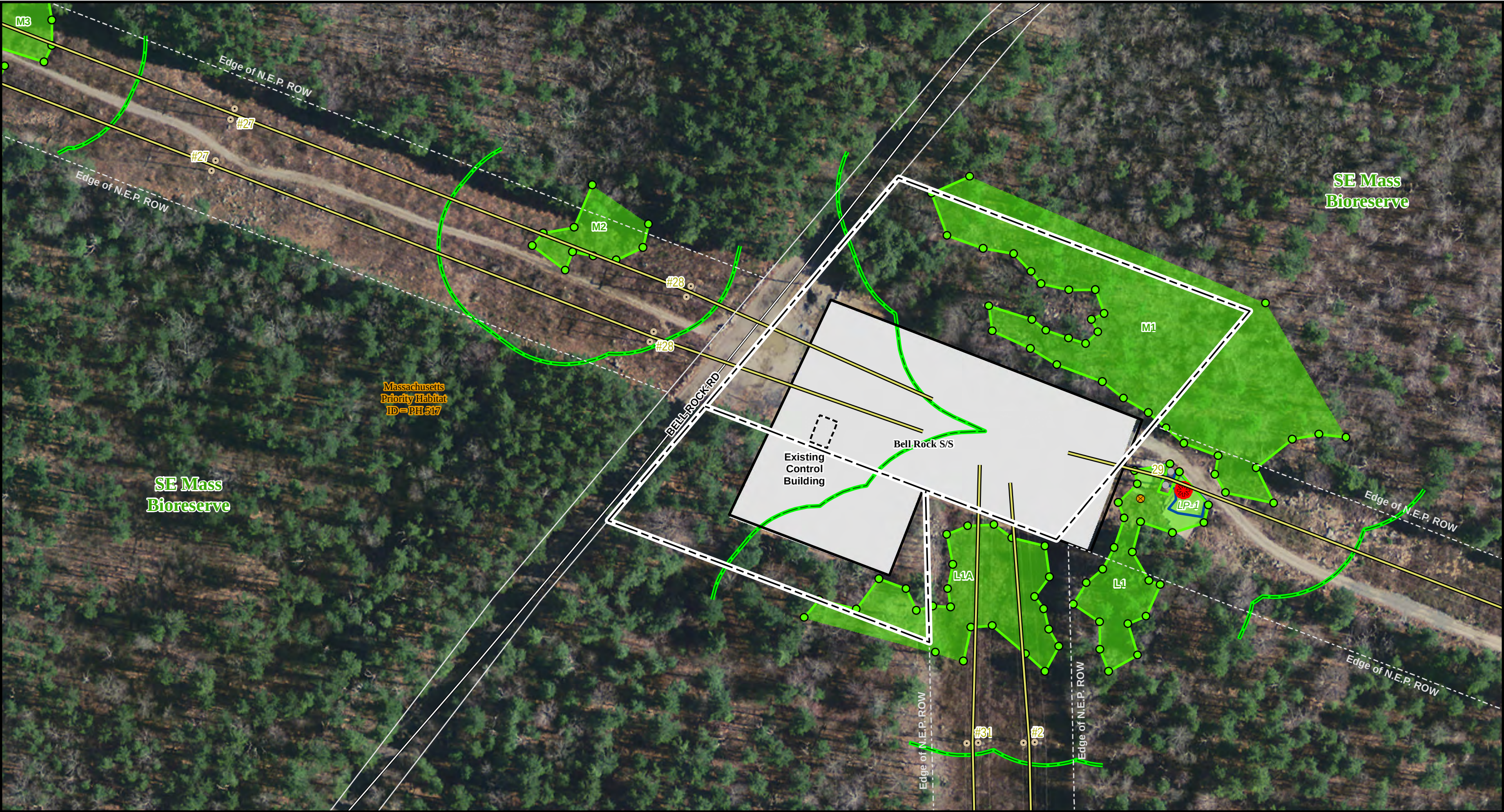
Compiled By:

POWER Engineers, Inc
100 John L. Dietsch Square
North Attleboro, MA 02763

November 2018







Legend

● Steel Pole	--- Edge of ROW	⊗ Culvert	Field Delineated Wetland*
● Wood Pole	— Existing Fence	● Wetland Flag	Outstanding Resource Waters (All of view extent)
— NEP Substation Easement	- - - Existing Building	~ Observed Inundation	MA-NHESP Priority Habitats Rare Species (All of view extent)
— Existing Transmission Line	— Local Road	~ Wetland Border	
— Parcel Boundary	● Field Documented Vernal Pool	~ 100 ft Buffer Wetland	

1 inch = 100 feet

0 50 100

Feet

*Indicates Layers Set to Transparency

BELL ROCK SUBSTATION REBUILD PROJECT

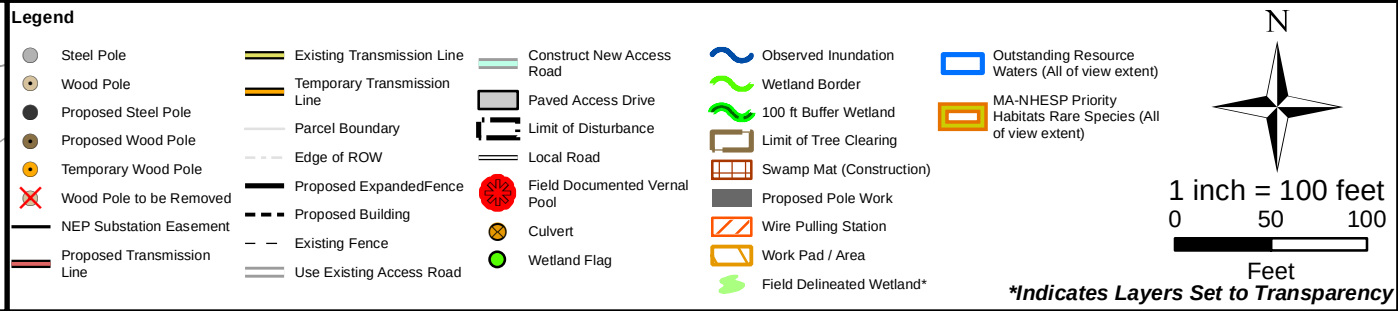
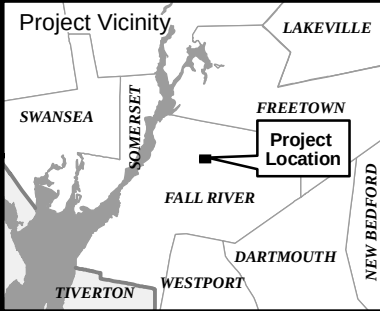
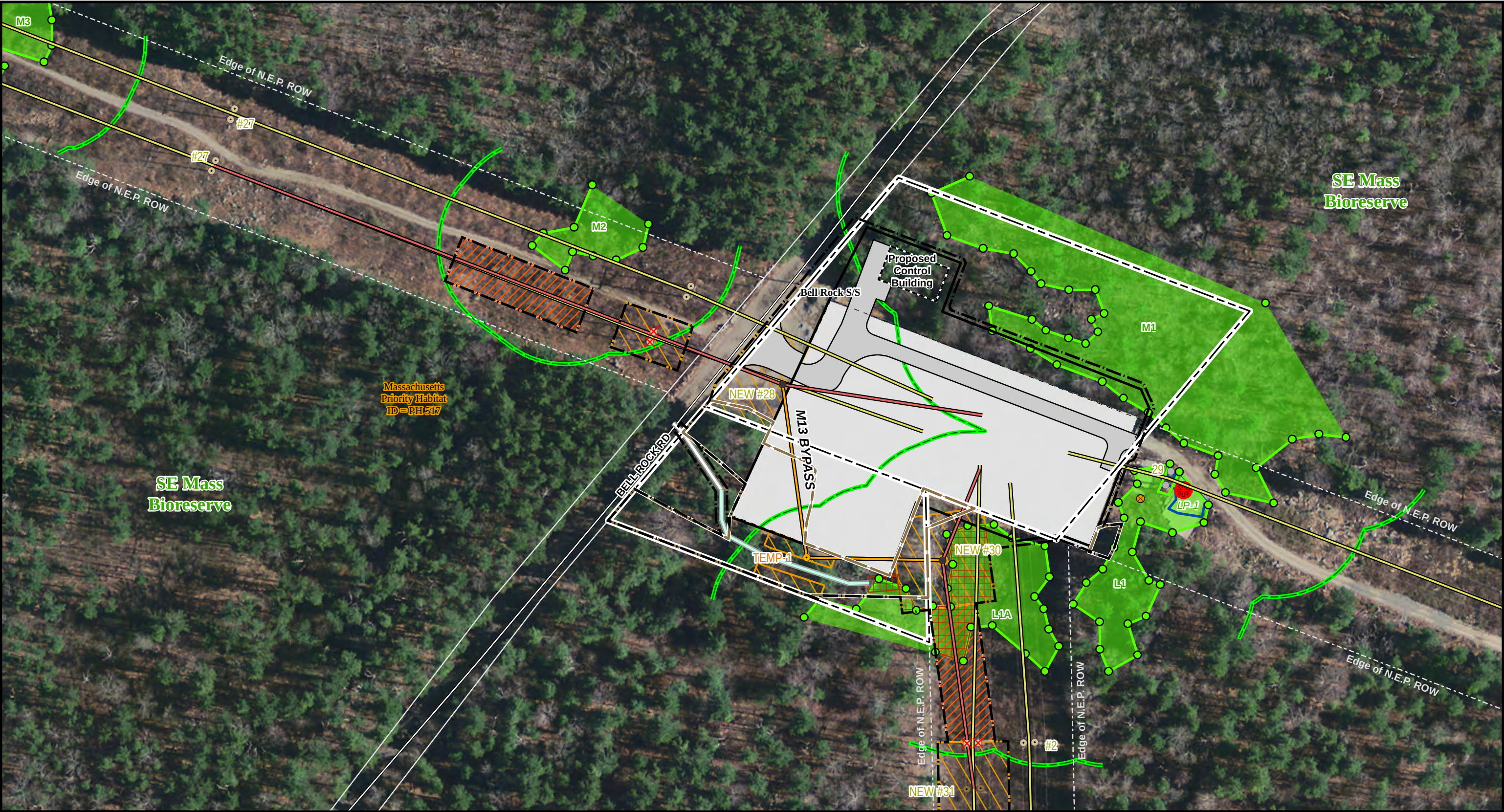
Figure 2-1: Existing Conditions

Commonwealth of Massachusetts
City of Fall River

NOT FOR CONSTRUCTION

Imagery Source: National Map Server 2013-2015 High Resolution Orthoimagery

nationalgrid
POWER ENGINEERS



BELL ROCK SUBSTATION REBUILD PROJECT

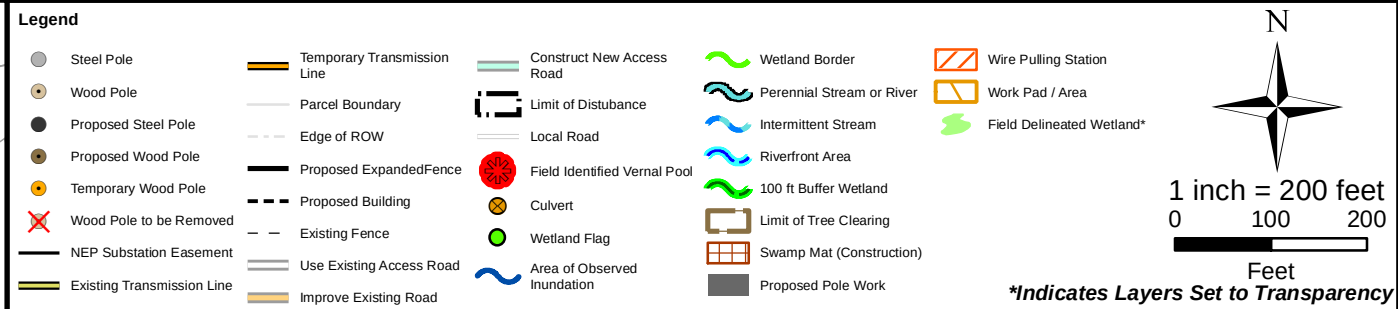
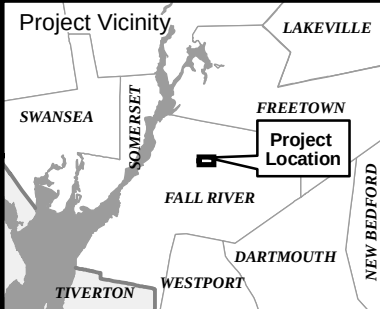
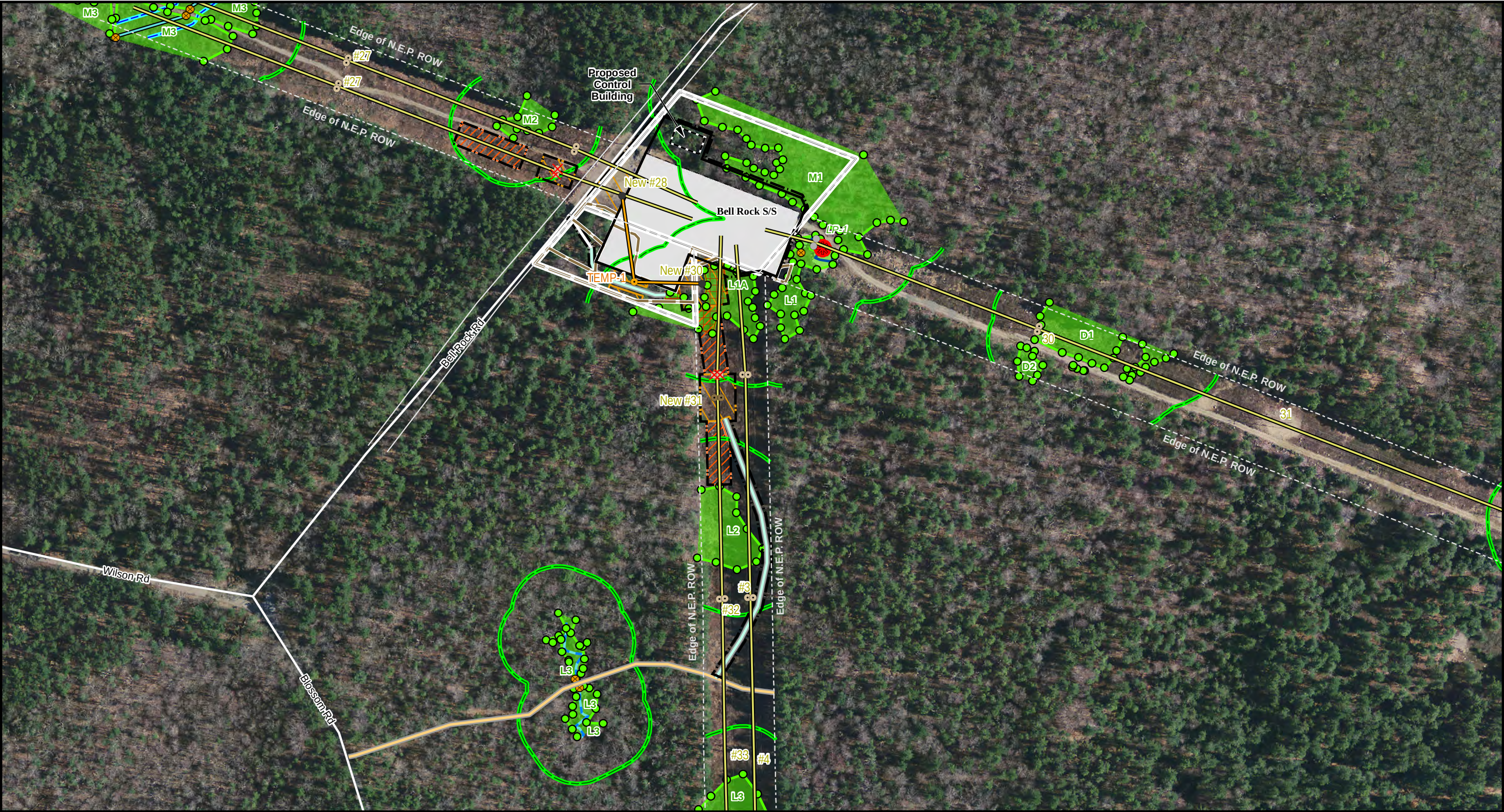
Figure 2-2: Proposed Conditions

Commonwealth of Massachusetts
City of Fall River

**NOT FOR
CONSTRUCTION**

Imagery Source: National
Map Server 2013-2015
High Resolution Orthoimagery





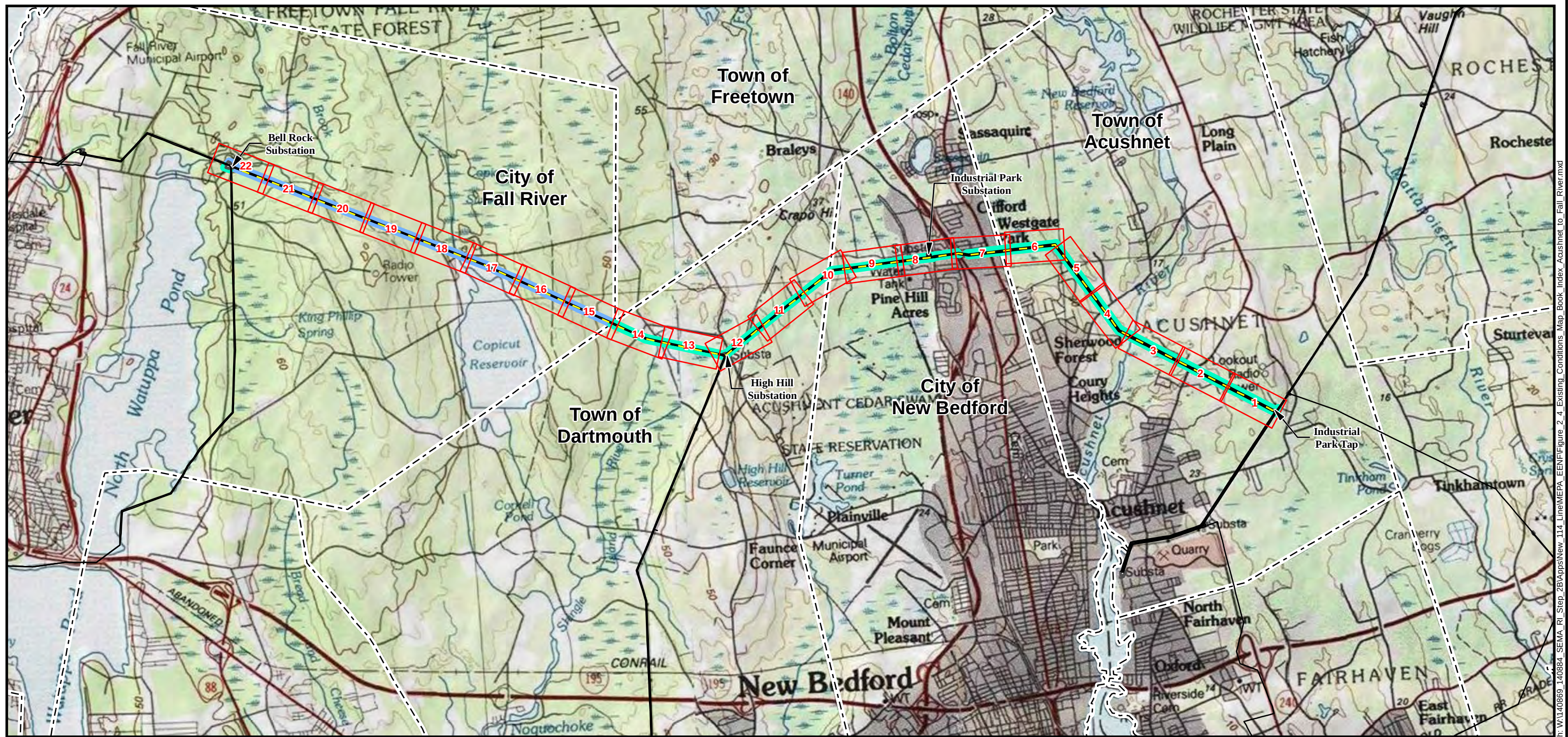
BELL ROCK SUBSTATION REBUILD PROJECT

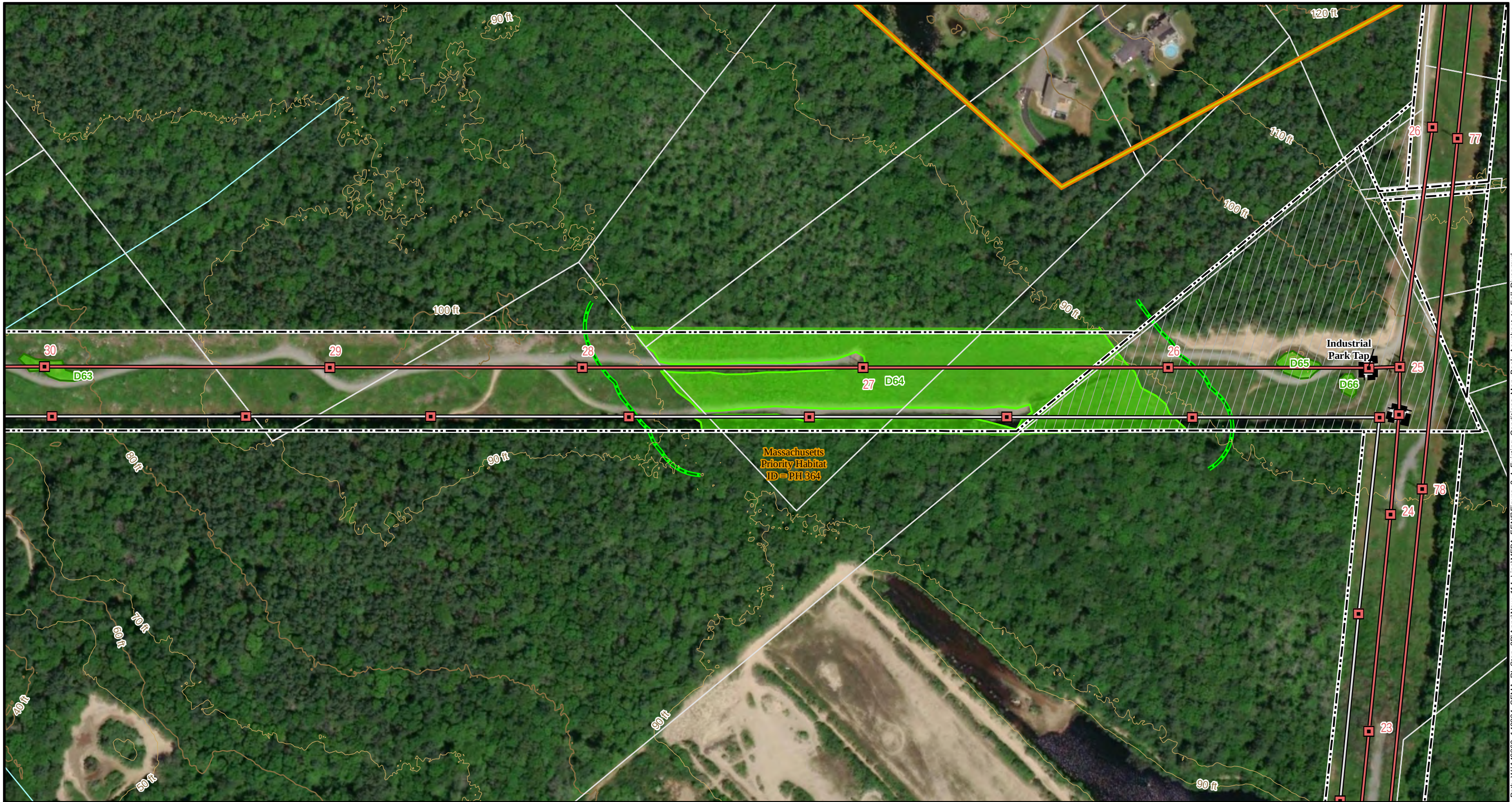
Figure 2-3: Proposed Conditions Overview Map

Commonwealth of Massachusetts
City of Fall River

Imagery Source: National Map Server 2013-2015
High Resolution Orthoimagery

nationalgrid
POWER ENGINEERS





Path: W:\140669_140684_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure 2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

- Utility Structure
- Existing Transmission Line
- Existing Distribution Line
- Substation or Tap
- Eversource Owned Land
- Existing Right of Way
- Parcel Boundary
- Field GPS Survey Line (2015-2018)
- Wetland Border
- Isolated Wetland Border
- Field Delineated Wetland
- Perennial Stream (NHD)
- 100 ft Buffer Wetland
- Priority Habitats Rare Species (MA-NHESP)
- Contour Line (20' Interval)
- Contour Line (10' Interval)

1" = 200'

Feet

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 1 of 22

Commonwealth of Massachusetts

Bristol County:
Town of Acushnet

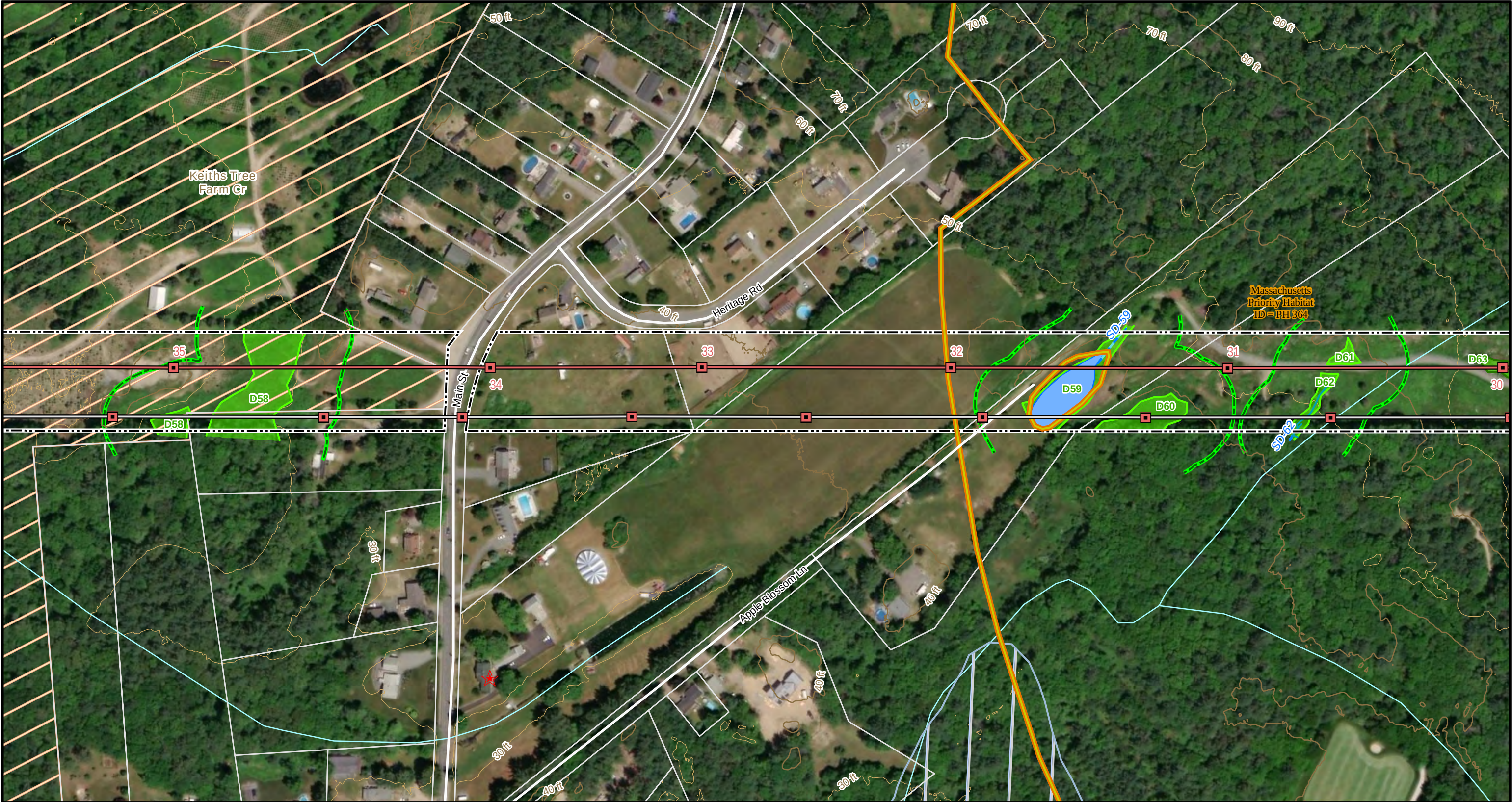
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH





Path: W:\140869_140884_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

Utility Structure	Delineated Open Water	Local Road
Existing Transmission Line	Field Delineated Wetland	Contour Line (20' Interval)
Existing Distribution Line	Perennial Stream (NHD)	Contour Line (10' Interval)
Existing Right of Way	100 ft Buffer Wetland	
Parcel Boundary	FEMA Flood Hazard (DFIRM 100yr)	
Field GPS Survey Line (2015-2018)	Priority Habitats Rare Species (MA-NHESP)	
Surface Drainage	Other Protected Lands	
Wetland Border	MA Historic Commission Historic Inventory Point	
Isolated Wetland Border		
Intermittent Stream		

1" = 200'

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 2 of 22

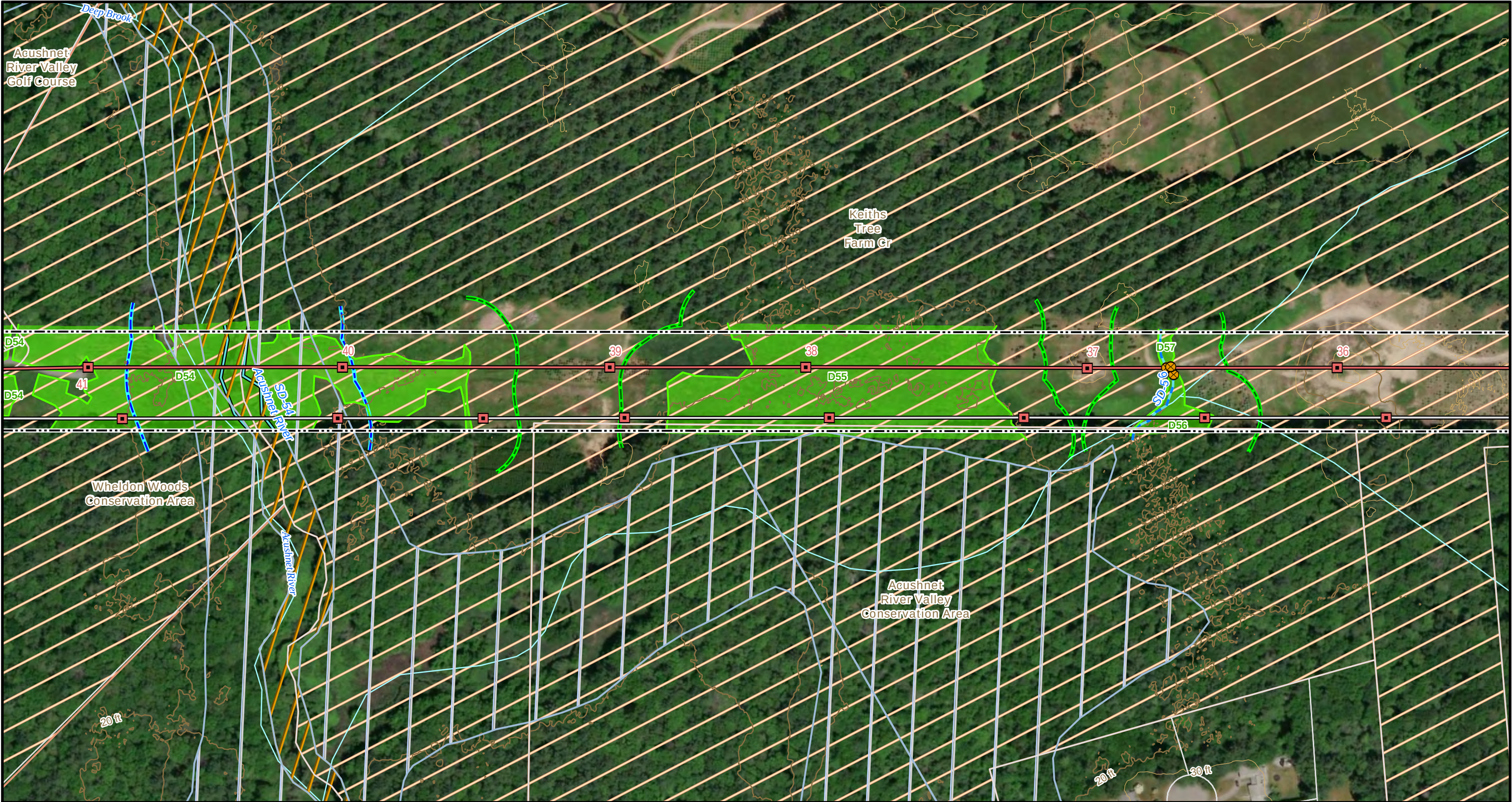
Commonwealth of Massachusetts

Bristol County:
Town of Acushnet

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018 Author: TDH



Path: W:\140869_140884_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EENR\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

Utility Structure	Perennial Stream or River	Contour Line (10' Interval)
Existing Transmission Line	Intermittent Stream	
Existing Distribution Line	Field Delineated Wetland	
Existing Right of Way	Perennial Stream (NHD)	
Parcel Boundary	Riverfront Area	
Field GPS Survey Point (2015-2018)	100 ft Buffer Wetland	
Culvert	FEMA Flood Hazard (DFIRM 100yr)	
Field GPS Survey Line (2015-2018)	Floodway	
Wetland Border	Other Protected Lands	
	Contour Line (20' Interval)	

1" = 200'

0 100 200 300 Feet

North Arrow

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 3 of 22

Commonwealth of Massachusetts

Bristol County:
Town of Acushnet

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018 Author: TDH

EVERSOURCE
nationalgrid

POWER ENGINEERS



Legend

- Utility Structure - Existing Transmission Line - Existing Distribution Line - Existing Right of Way - Parcel Boundary - Field GPS Survey Point (2015-2018) - Culvert - Field GPS Survey Line (2015-2018) - Wetland Border	- Perennial Stream or River - Field Delineated Wetland - Perennial Stream (NHD) - Riverfront Area 100 ft Buffer Wetland - FEMA Flood Hazard (DFIRM 100yr) - Floodway - Other Protected Lands - MA Historic Commission Historic Inventory Point	- Local Road - Contour Line (20' Interval) - Contour Line (10' Interval)
---	--	--

1" = 200'

0 100 200 300 Feet

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 4 of 22

Commonwealth of Massachusetts

Bristol County:
Town of Acushnet

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

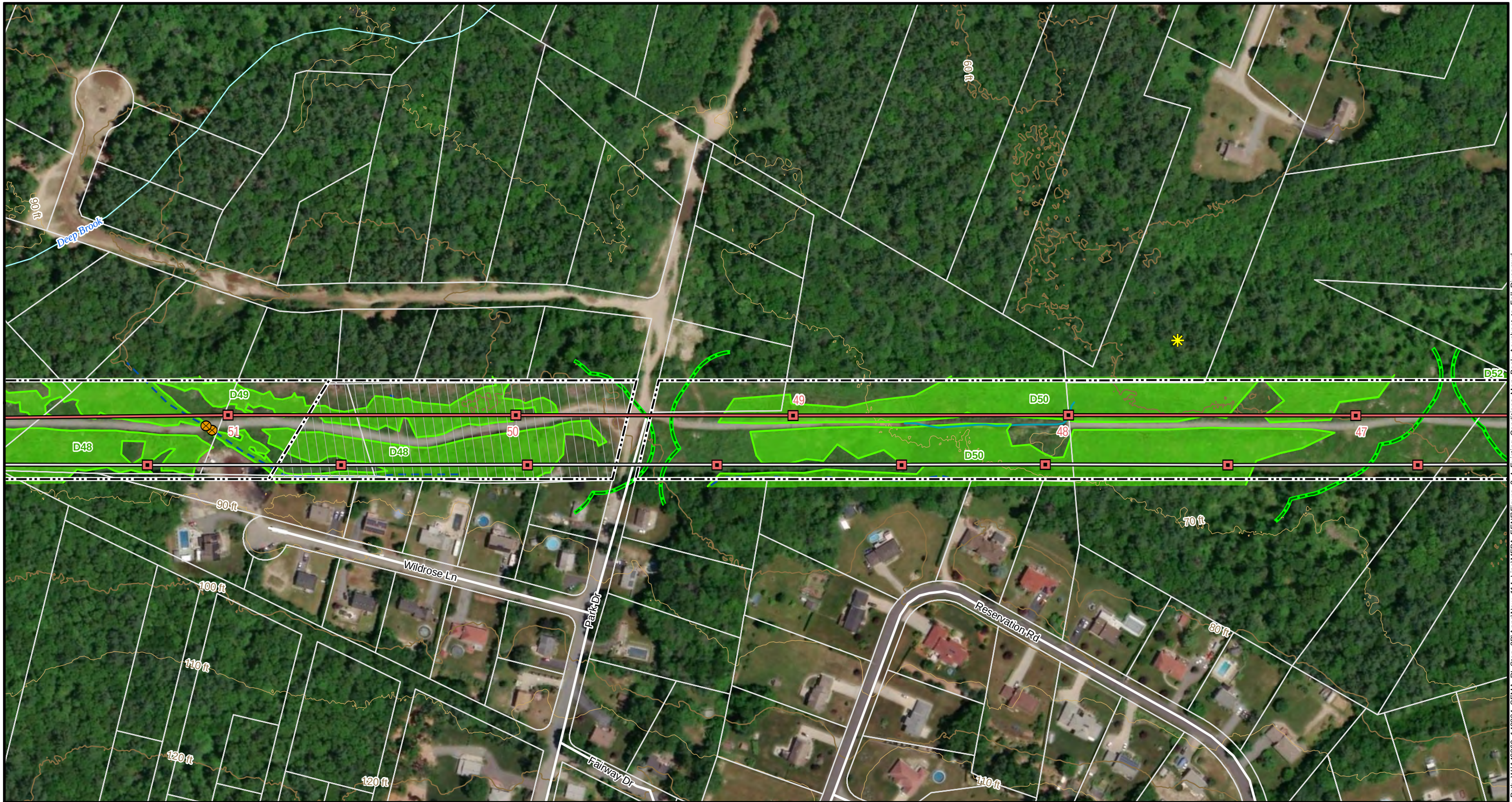
NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH



Path: W:\140869_140884_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

Utility Structure	Field GPS Survey Line (2015-2018)	Contour Line (10' Interval)
Existing Transmission Line	Surface Drainage	
Existing Distribution Line	Wetland Border	
Eversource Owned Land	Ditch	
Existing Right of Way	Field Delineated Wetland	
Parcel Boundary	Potential Vernal Pools (NHESP)	
Culvert	Perennial Stream (NHD)	
	100 ft Buffer Wetland	
	Local Road	
	Contour Line (20' Interval)	

1" = 200'

0 100 200 300 Feet

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 5 of 22

Commonwealth of Massachusetts

Bristol County:
Town of Acushnet

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

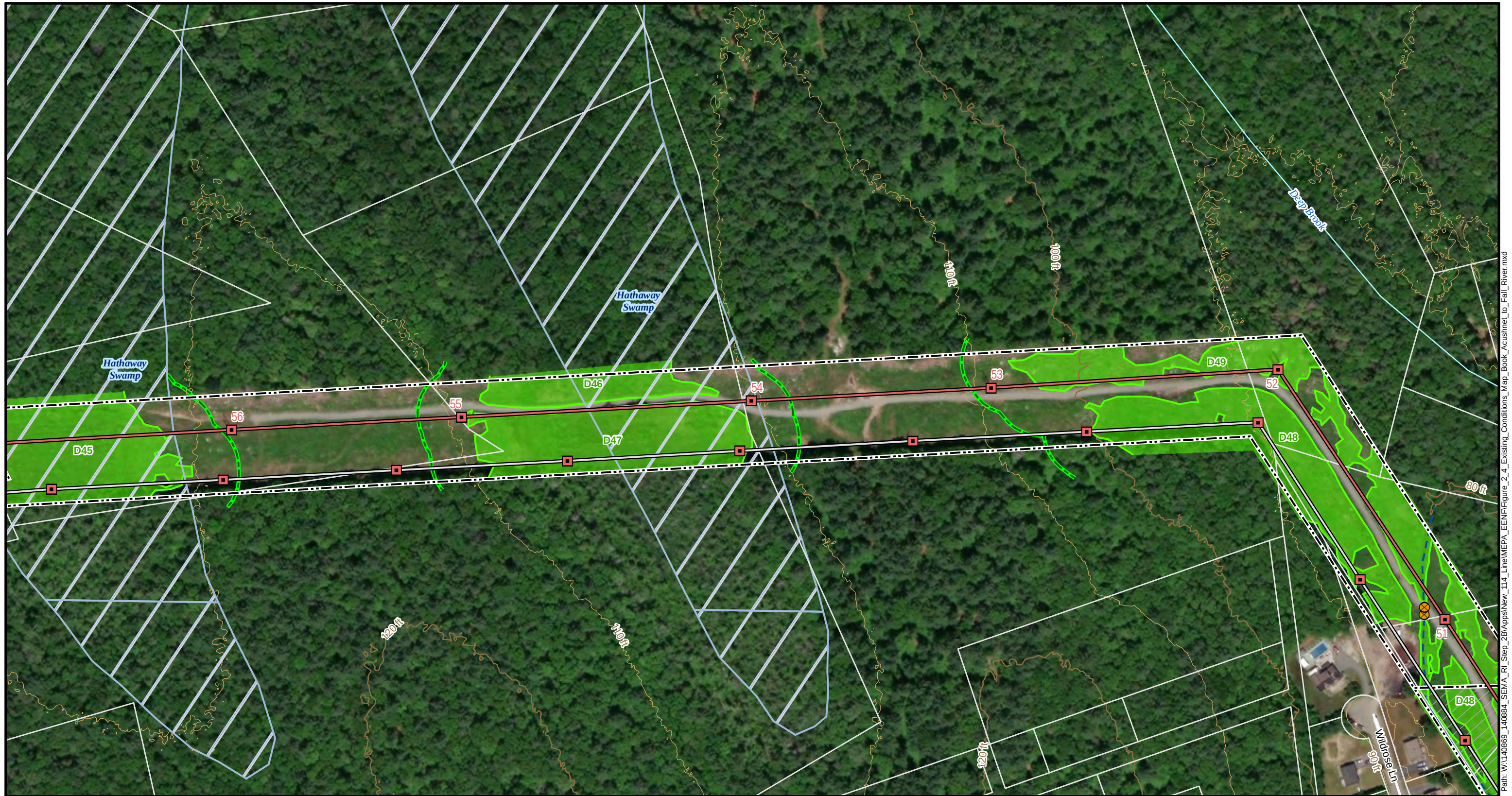
NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018 Author: TDH

EVERSOURCE
nationalgrid

POWER ENGINEERS

Path: W:\140669_140684_SEMA_RL_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

- Utility Structure
- Existing Transmission Line
- Existing Distribution Line
- Eversource Owned Land
- Existing Right of Way
- Parcel Boundary
- Field GPS Survey Point (2015-2018)
- Culvert
- Field GPS Survey Line (2015-2018)
- Wetland Border
- Ditch
- Field Delineated Wetland
- Perennial Stream (NHD)
- 100 ft Buffer Wetland
- FEMA Flood Hazard (DFIRM 100yr)
- Local Road
- Contour Line (10' Interval)
- Contour Line (20' Interval)

1" = 200'

0 100 200 300 Feet

N
W E
S

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 6 of 22

Commonwealth of Massachusetts

Bristol County:
Town of Acushnet

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH





Path: W:\140869_140884_SEMA_RL_Step_2B\apps\New_114_Line\MEPA_EEN\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

Utility Structure	Field GPS Survey Line (2015-2018)	MA Historic Commission Historic Inventory Point
Existing Transmission Line	Wetland Border	State Highway
Existing Distribution Line	Ditch	Local Road
Eversource Owned Land	Field Delineated Wetland	Contour Line (20' Interval)
Existing Right of Way	Perennial Stream (NHD)	Contour Line (10' Interval)
Parcel Boundary	100 ft Buffer Wetland	
Culvert	FEMA Flood Hazard (DFIRM 100yr)	
	Other Protected Lands	

1" = 200'

0 100 200 300 Feet

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 7 of 22

Commonwealth of Massachusetts

Bristol County:
Town of Acushnet, City of New Bedford

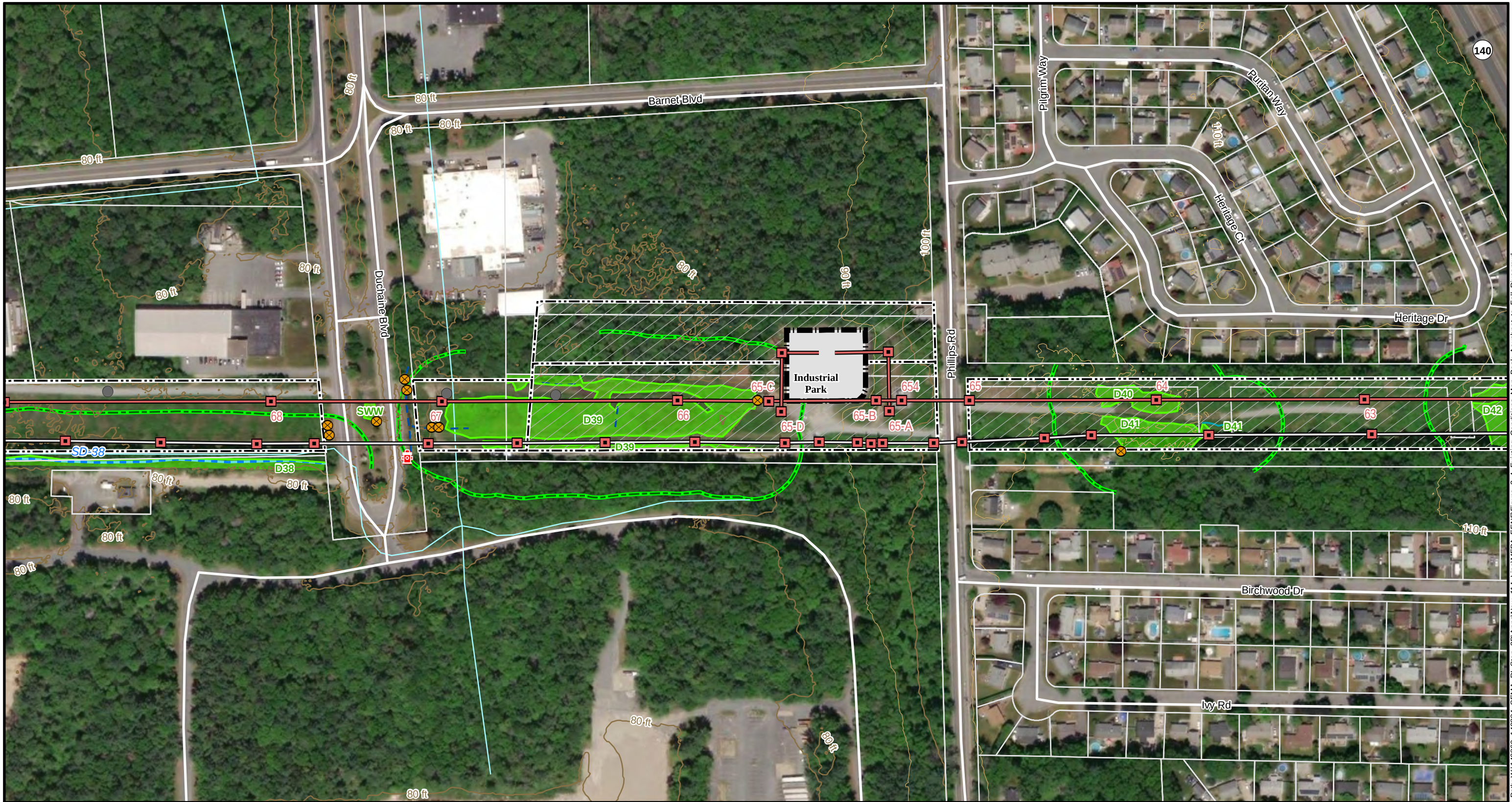
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH





Path: W:\140869_140884_SEMA_RL_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

Utility Structure	Hydrant	100 ft Buffer Wetland
Existing Transmission Line	Field GPS Survey Line (2015-2018)	State Highway
Existing Distribution Line	Surface Drainage	Local Road
Substation or Tap	Wetland Border	Contour Line (20' Interval)
Eversource Owned Land	Intermittent Stream	Contour Line (10' Interval)
Existing Right of Way	Ditch	
Parcel Boundary	Field Delineated Wetland	
Field GPS Survey Point (2015-2018)	Potential Vernal Pools (NHESP)	
Culvert	Perennial Stream (NHD)	
Man Hole		

1" = 200'

0 100 200 300

Feet

W N E S

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 8 of 22

Commonwealth of Massachusetts

Bristol County:
City of New Bedford

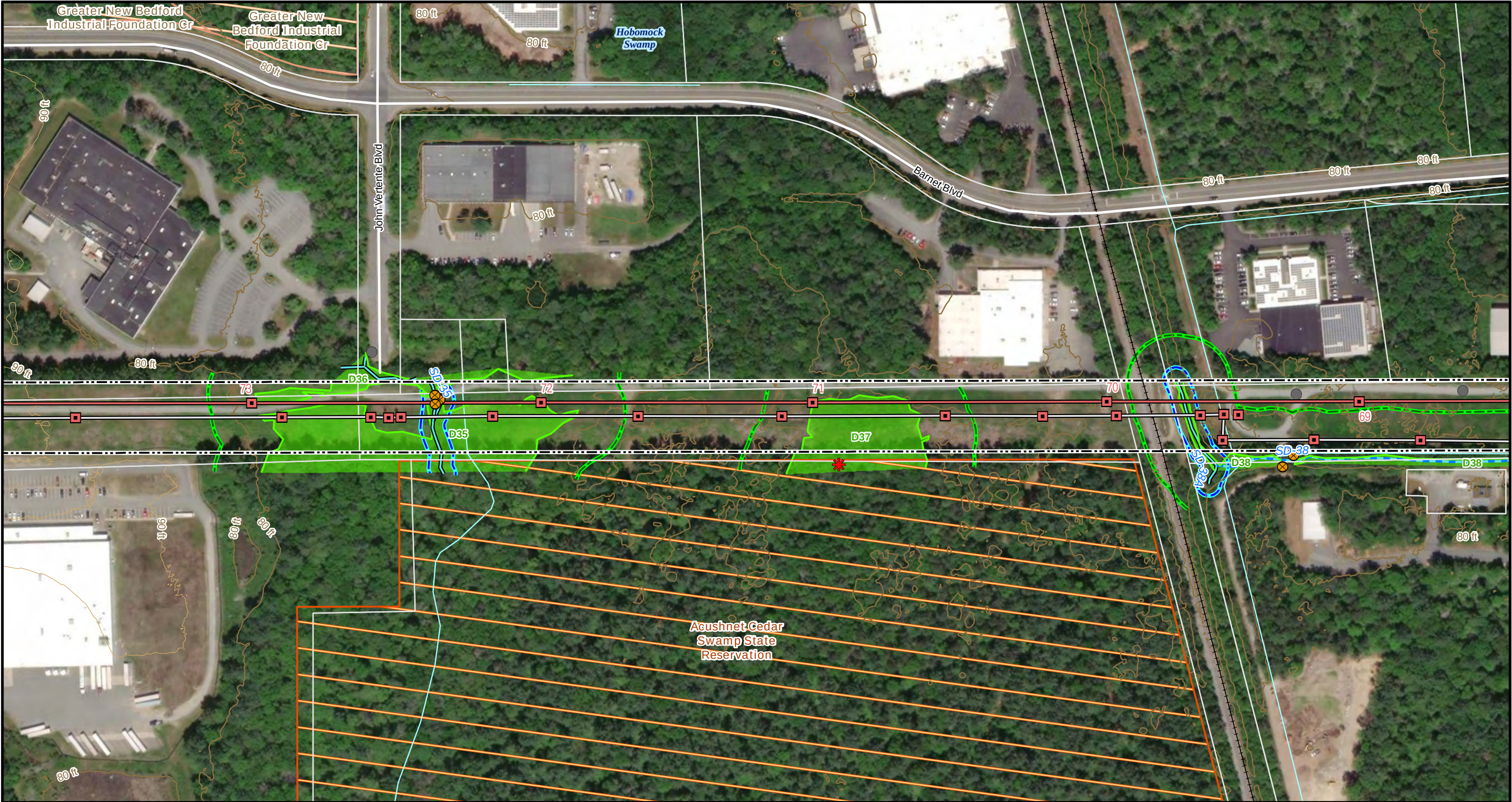
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH





Legend

- Utility Structure
- Existing Transmission Line
- Existing Distribution Line
- Existing Right of Way
- Parcel Boundary
- Field GPS Survey Point (2015-2018)
- Culvert
- Man Hole

Field GPS Survey Line (2015-2018)

- Wetland Border
- Perennial Stream or River
- Intermittent Stream
- Field Delineated Wetland
- Certified Vernal Pools (NHESP)
- Perennial Stream (NHD)
- Riverfront Area
- 100 ft Buffer Wetland

- Massachusetts DCR Protected Lands
- Other Protected Lands
- Local Road
- Railroad
- Contour Line (20' Interval)
- Contour Line (10' Interval)

1" = 200'

0 100 200 300 Feet

W N E S

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 9 of 22

Commonwealth of Massachusetts

Bristol County:
City of New Bedford

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

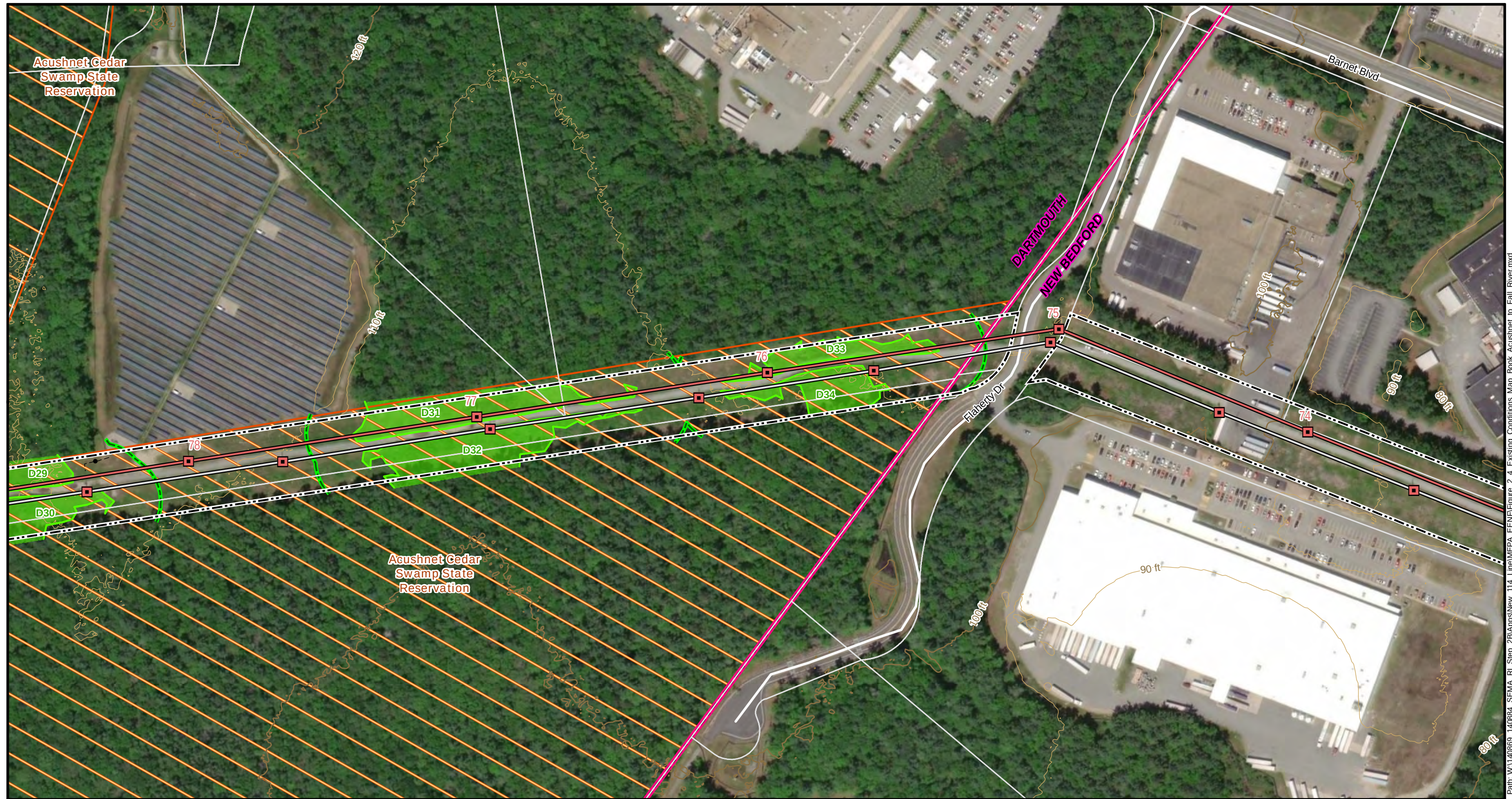
Date: 11/13/2018 Author: TDH

EVERSOURCE

nationalgrid

POWER ENGINEERS

Path: W:\140669_140684_SEMA_RI_Step_2BApps\New_114_LineMEPA_EENR\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

- Utility Structure
- Existing Transmission Line
- Existing Distribution Line
- Existing Right of Way
- Parcel Boundary
- Field GPS Survey Line (2015-2018)
- Pipeline
- Wetland Border
- Field Delineated Wetland
- 100 ft Buffer Wetland
- Massachusetts DCR Protected Lands
- Local Road
- Contour Line (20' Interval)
- Contour Line (10' Interval)

1" = 200'

0 100 200 300 Feet

W N S E

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

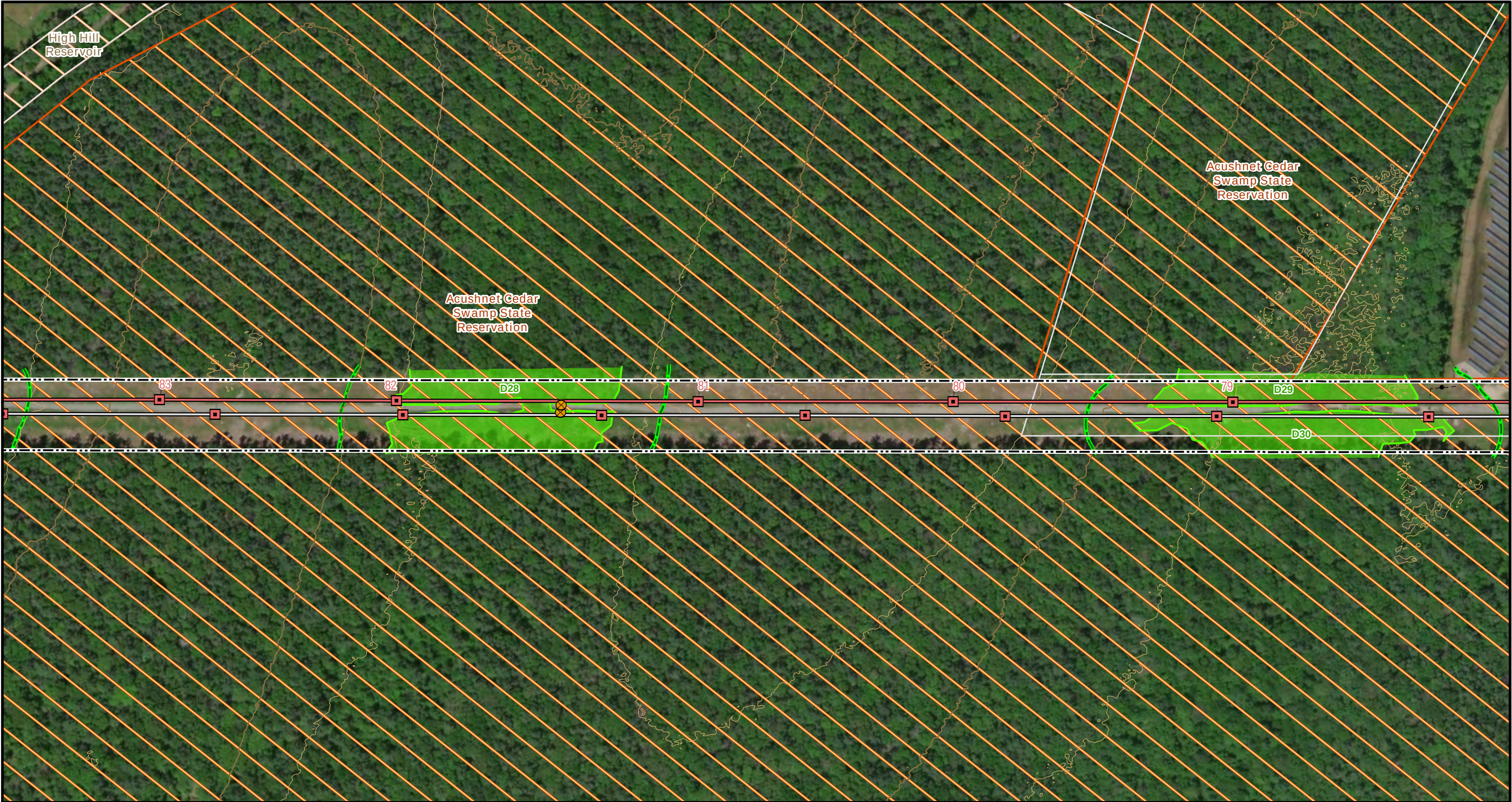
NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018 Author: TDH

EVERSOURCE
nationalgrid

POWER ENGINEERS

Path: W:\140869_140884_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EENR\Figure 2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Path: W:\140669_140684_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

Utility Structure	Wetland Border
Existing Transmission Line	Field Delineated Wetland
Existing Distribution Line	100 ft Buffer Wetland
Existing Right of Way	Massachusetts DCR Protected Lands
Parcel Boundary	Other Protected Lands
Field GPS Survey Point (2015-2018)	Contour Line (20' Interval)
Culvert	Contour Line (10' Interval)
Field GPS Survey Line (2015-2018)	
Pipeline	

1" = 200'

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 11 of 22

Commonwealth of Massachusetts

Bristol County:
Town of Dartmouth

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH





Path: W:\140669_140684_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

- Utility Structure
- Existing Transmission Line
- Existing Distribution Line
- Substation or Tap
- Eversource Owned Land
- Existing Right of Way
- Parcel Boundary
- Field GPS Survey Point (2015-2018)
- Culvert
- Man Hole

Field GPS Survey Line (2015-2018)

- Observed Inundation
- Wetland Border
- Perennial Stream or River
- Intermittent Stream
- Field Delineated Wetland
- Potential Vernal Pools (NHESP)
- Intermittent Stream (NHD)
- Riverfront Area
- 100 ft Buffer Wetland

FEMA Flood Hazard (DFIRM 100yr)

- Massachusetts DCR Protected Lands
- Other Protected Lands
- Local Road
- Contour Line (20' Interval)
- Contour Line (10' Interval)

1" = 200'

0 100 200 300 Feet

North Arrow

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 12 of 22

Commonwealth of Massachusetts

Bristol County:
Town of Dartmouth

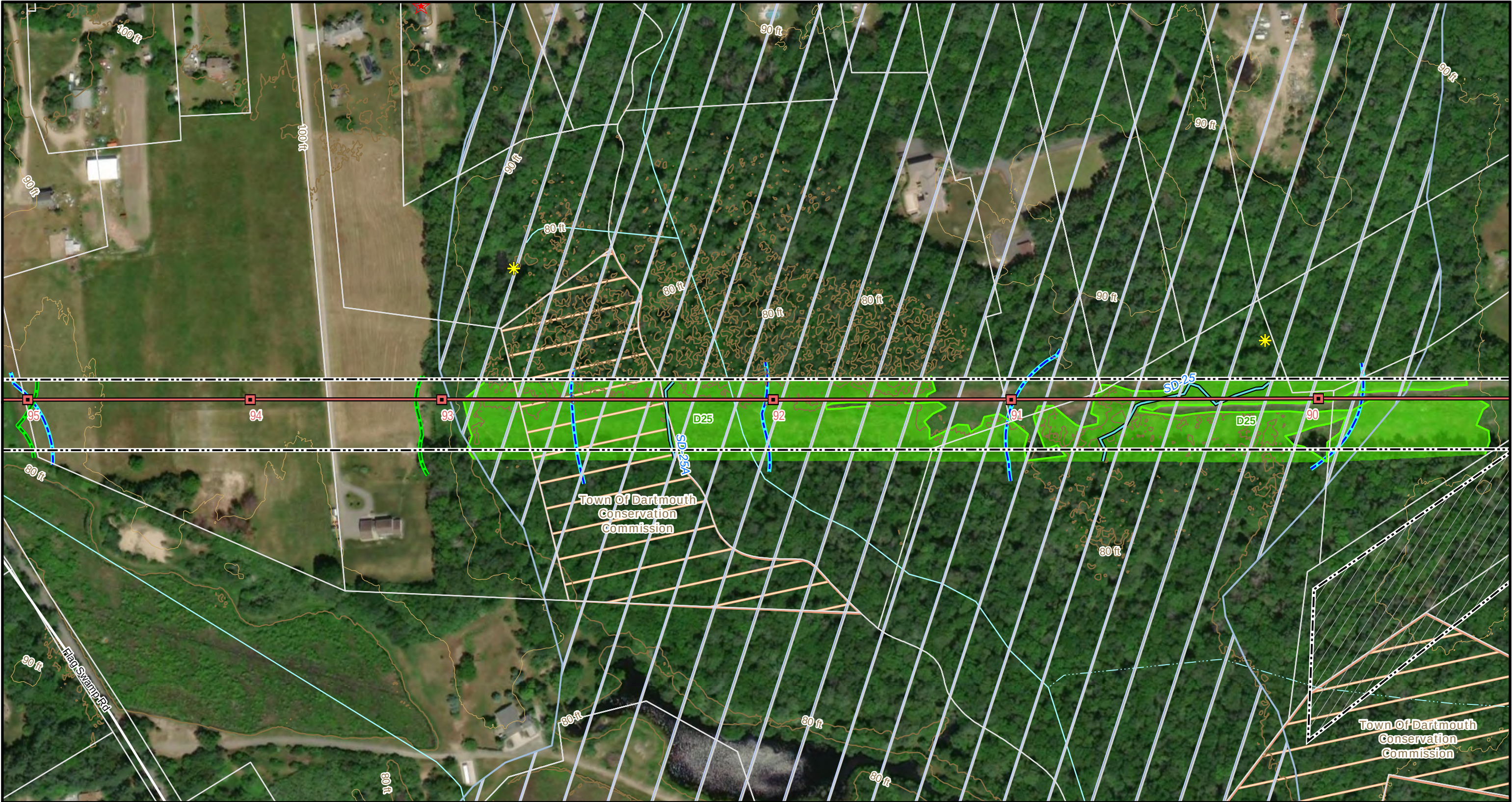
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH





Legend

- Utility Structure
- Existing Transmission Line
- Eversource Owned Land
- Existing Right of Way
- Parcel Boundary
- Field GPS Survey Line (2015-2018)
- Wetland Border
- Perennial Stream or River
- Field Delineated Wetland
- Potential Vernal Pools (NHESP)
- Perennial Stream (NHD)
- Intermittent Stream (NHD)
- Riverfront Area
- 100 ft Buffer Wetland
- FEMA Flood Hazard (DFIRM 100yr)
- Other Protected Lands
- MA Historic Commission Historic Inventory Point
- Local Road
- Contour Line (20' Interval)
- Contour Line (10' Interval)

1" = 200'

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 13 of 22

Commonwealth of Massachusetts

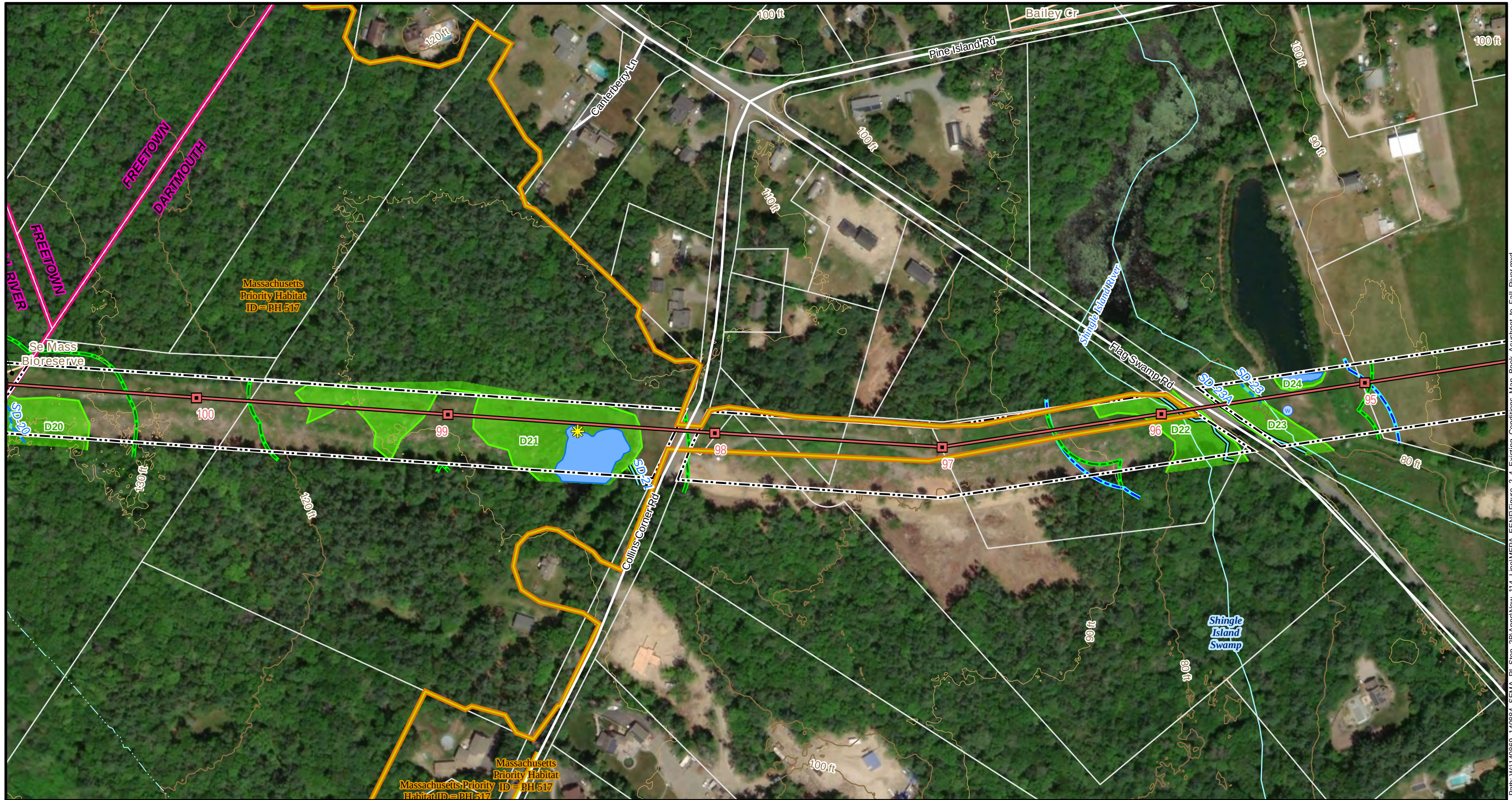
Bristol County:
Town of Dartmouth

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018 Author: TDH

Path: W:\140869_140884_SEMA_RI_Step_2B\apps\New_114_Line\MEPA_EEN\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

- Utility Structure
- Existing Transmission Line
- Existing Right of Way
- Parcel Boundary
- Field GPS Survey Point (2015-2018)
- Well
- Field GPS Survey Line (2015-2018)
- Wetland Border
- Perennial Stream or River
- Intermittent Stream
- Delineated Open Water
- Field Delineated Wetland
- Potential Vernal Pools (NHESP)
- Perennial Stream (NHD)
- Intermittent Stream (NHD)
- Riverfront Area
- 100 ft Buffer Wetland
- Priority Habitats Rare Species (MA-NHESP)
- Other Protected Lands
- Local Road
- Contour Line (20' Interval)
- Contour Line (10' Interval)

1" = 200'

Feet

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 14 of 22

Commonwealth of Massachusetts

Bristol County:
Town of Dartmouth

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH



Path: W:\140369_140884_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Path: W:\140669_140684_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

Utility Structure	Wetland Border	Contour Line (20' Interval)
Existing Transmission Line	Intermittent Stream	Contour Line (10' Interval)
Existing Right of Way	Ditch	
Parcel Boundary	Field Delineated Wetland	
Field GPS Survey Point (2015-2018)	Intermittent Stream (NHD)	
Vernal Pool	100 ft Buffer Wetland	
Field GPS Survey Line (2015-2018)	Priority Habitats Rare Species (MA-NHESP)	
Observed Inundation	Massachusetts DCR Protected Lands	
	Other Protected Lands	

1" = 200'

0 100 200 300 Feet

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 15 of 22

Commonwealth of Massachusetts

Bristol County:
Towns of Dartmouth & Freetown, City of Fall River

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH





Legend

Utility Structure	Isolated Wetland Border	Massachusetts DCR Protected Lands
Existing Transmission Line	Intermittent Stream	Other Protected Lands
Natural Gas Pipeline	Ditch	Contour Line (20' Interval)
Existing Right of Way	Field Delineated Wetland	Contour Line (10' Interval)
Parcel Boundary	400 ft Buffer to Class A Public Water Supply	
Field GPS Survey Point (2015-2018)	100 ft Buffer Wetland	
Culvert	FEMA Flood Hazard (DFIRM 100yr)	
Field GPS Survey Line (2015-2018)	Priority Habitats Rare Species (MA-NHESP)	
Wetland Border		

1" = 200'

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 16 of 22

Commonwealth of Massachusetts

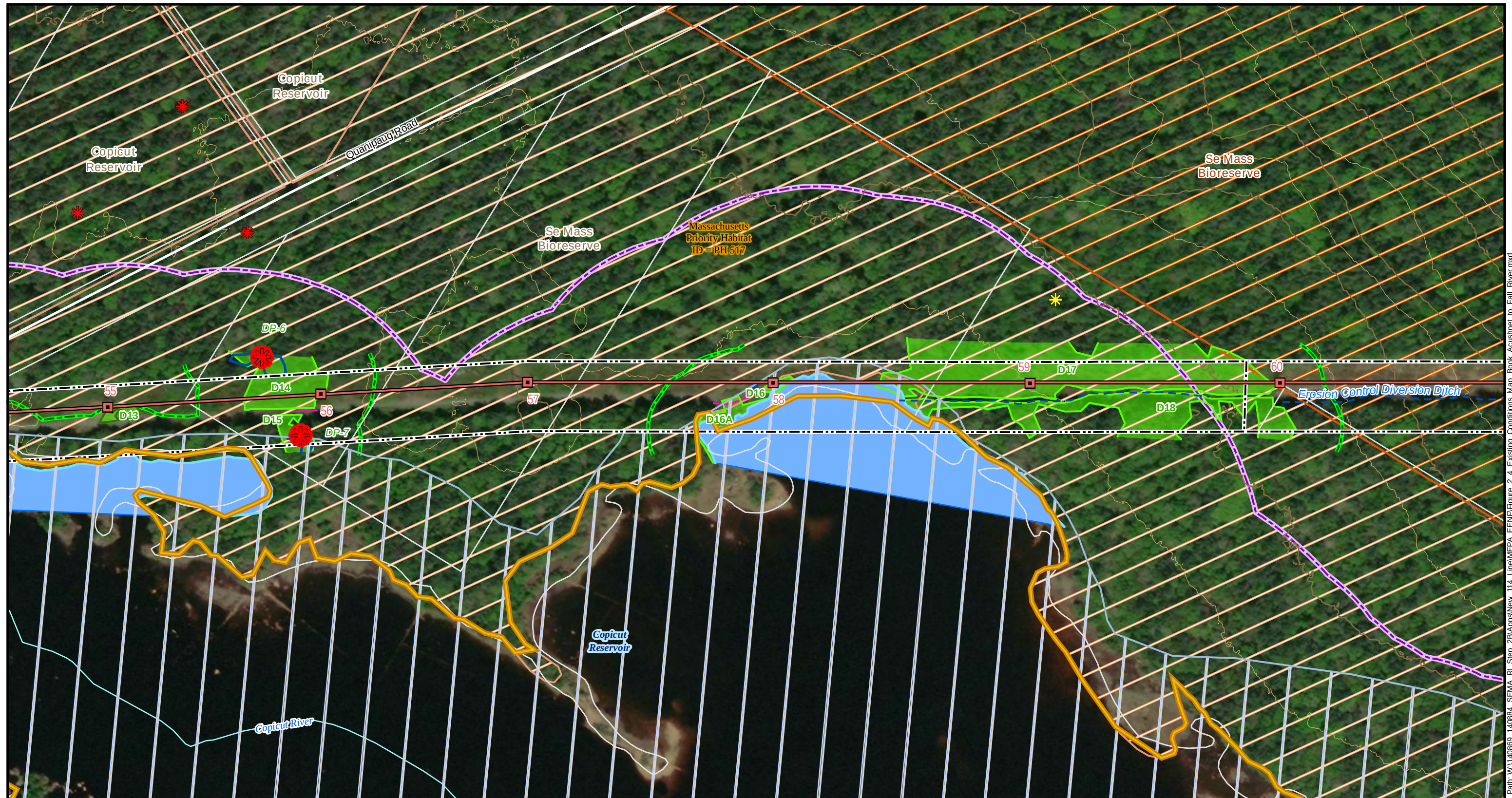
Bristol County:
City of Fall River

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018 Author: TDH

Path: W:\140869_140884_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

- Utility Structure - Existing Transmission Line - Existing Right of Way - Parcel Boundary - Field GPS Survey Point (2015-2018) - Vernal Pool - Field GPS Survey Line (2015-2018) - Note Road Erosion - Observed Inundation	- Wetland Border - Isolated Wetland Border - Mean Annual High Water Line - Ditch - Delineated Open Water - Field Delineated Wetland - Certified Vernal Pools (NHESP) - Potential Vernal Pools (NHESP) - Perennial Stream (NHD)	400 ft Buffer to Class A Public Water Supply 100 ft Buffer Wetland - FEMA Flood Hazard (DFIRM 100yr) - Priority Habitats Rare Species (MA-NHESP) - Massachusetts DCR Protected Lands - Other Protected Lands - Contour Line (20' Interval) - Contour Line (10' Interval)
---	--	---

1" = 200'

0 100 200 300 Feet

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 17 of 22

Commonwealth of Massachusetts

Bristol County:
City of Fall River

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USF

Date: 11/13/2018

Author: TDH



Path: W:\140869_140884_SEMA_RI_Step_2BAApps\New_114_Line\MEPA_EEN\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

Utility Structure	Field GPS Survey Line (2015-2018)	Perennial Stream (NHD)	Local Road
Existing Transmission Line	Observed Inundation	400 ft Buffer to Class A Public Water Supply	Contour Line (20' Interval)
Existing Right of Way	Wetland Border	Riverfront Area	Contour Line (10' Interval)
Parcel Boundary	Isolated Wetland Border	100 ft Buffer Wetland	
Field GPS Survey Point (2015-2018)	Perennial Stream or River	FEMA Flood Hazard (DFIRM 100yr)	
Vernal Pool	Mean Annual High Water Line	Priority Habitats Rare Species (MA-NHESP)	
Culvert	Delineated Open Water	Massachusetts DCR Protected Lands	
	Field Delineated Wetland	Other Protected Lands	
	Certified Vernal Pools (NHESP)		
	Potential Vernal Pools (NHESP)		

1" = 200'

0 100 200 300 Feet

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 18 of 22

Commonwealth of Massachusetts

Bristol County:
City of Fall River

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018 Author: TDH

EVERSOURCE
nationalgrid

POWER ENGINEERS

Path: W:\140669_140684_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Path: W:\140669_140684_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

Utility Structure	Field Delineated Wetland
Existing Transmission Line	100 ft Buffer Wetland
Existing Right of Way	Priority Habitats Rare Species (MA-NHESP)
Parcel Boundary	Massachusetts DCR Protected Lands
Field GPS Survey Point (2015-2018)	Other Protected Lands
Culvert	Contour Line (20' Interval)
Field GPS Survey Line (2015-2018)	Contour Line (10' Interval)
Wetland Border	
Intermittent Stream	

1" = 200'

Feet

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 19 of 22

Commonwealth of Massachusetts

Bristol County:
City of Fall River

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH





Path: W:\140669_140684_SEMA_RI_Step_2B\apps\New_114_Line\MEPA_EEN\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

- Utility Structure
- Existing Transmission Line
- Existing Right of Way
- Parcel Boundary
- Field GPS Survey Point (2015-2018)
- Vernal Pool
- Field GPS Survey Line (2015-2018)
- Observed Inundation
- Isolated Wetland Border
- Field Delineated Wetland
- Priority Habitats Rare Species (MA-NHESP)
- Other Protected Lands
- Contour Line (20' Interval)
- Contour Line (10' Interval)

1" = 200'

Feet

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

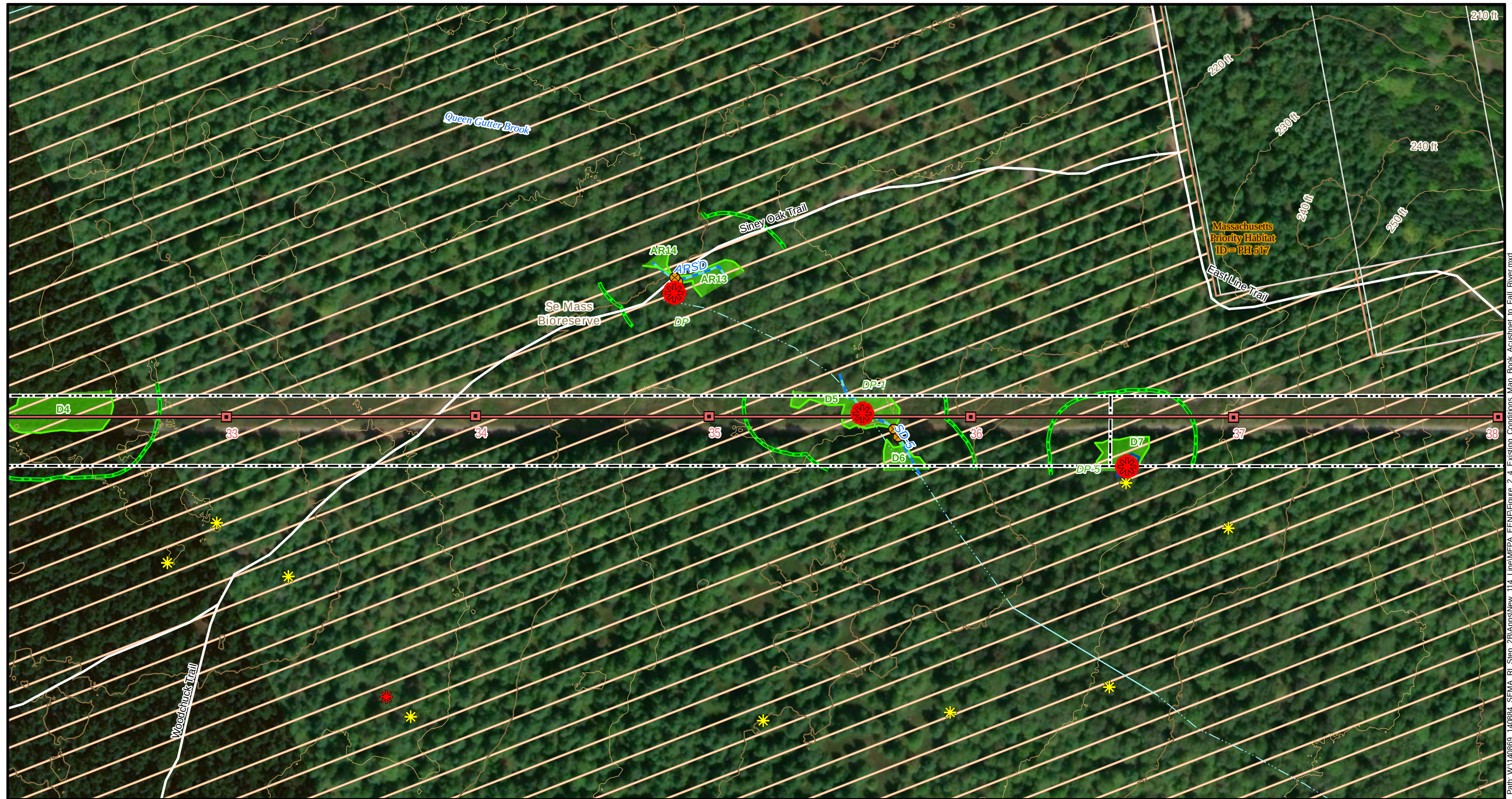
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH





Legend

- Utility Structure
- Existing Transmission Line
- Existing Right of Way
- Parcel Boundary
- Field GPS Survey Point (2015-2018)
- Vernal Pool
- Culvert

Field GPS Survey Line (2015-2018)

- Observed Inundation
- Wetland Border
- Intermittent Stream
- Field Delineated Wetland
- Certified Vernal Pools (NHESP)
- Potential Vernal Pools (NHESP)
- Perennial Stream (NHD)
- Intermittent Stream (NHD)

- 100 ft Buffer Wetland
- Priority Habitats Rare Species (MA-NHESP)
- Other Protected Lands
- Contour Line (20' Interval)
- Contour Line (10' Interval)

1" = 200'

Feet

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018 Author: TDH

Path: W:\140869_140884_SEMA_RI_Step_2B\apps\New_114_Line\MEPA_EEN\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

Utility Structure	Field GPS Survey Line (2015-2018)	Massachusetts DCR Protected Lands
Existing Transmission Line	Observed Inundation	Other Protected Lands
Substation or Tap	Wetland Border	Local Road
National Grid Owned Land	Field Delineated Wetland	Contour Line (20' Interval)
Existing Right of Way	Certified Vernal Pools (NHESP)	Contour Line (10' Interval)
Parcel Boundary	Potential Vernal Pools (NHESP)	
Field GPS Survey Point (2015-2018)	Perennial Stream (NHD)	
Vernal Pool	100 ft Buffer Wetland	
Culvert	Priority Habitats Rare Species (MA-NHESP)	

1" = 200'

0 100 200 300 Feet

Acushnet to Fall River Reliability Project

Figure 2-4: Existing Conditions

Page 22 of 22

Commonwealth of Massachusetts

Bristol County:
City of Fall River

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

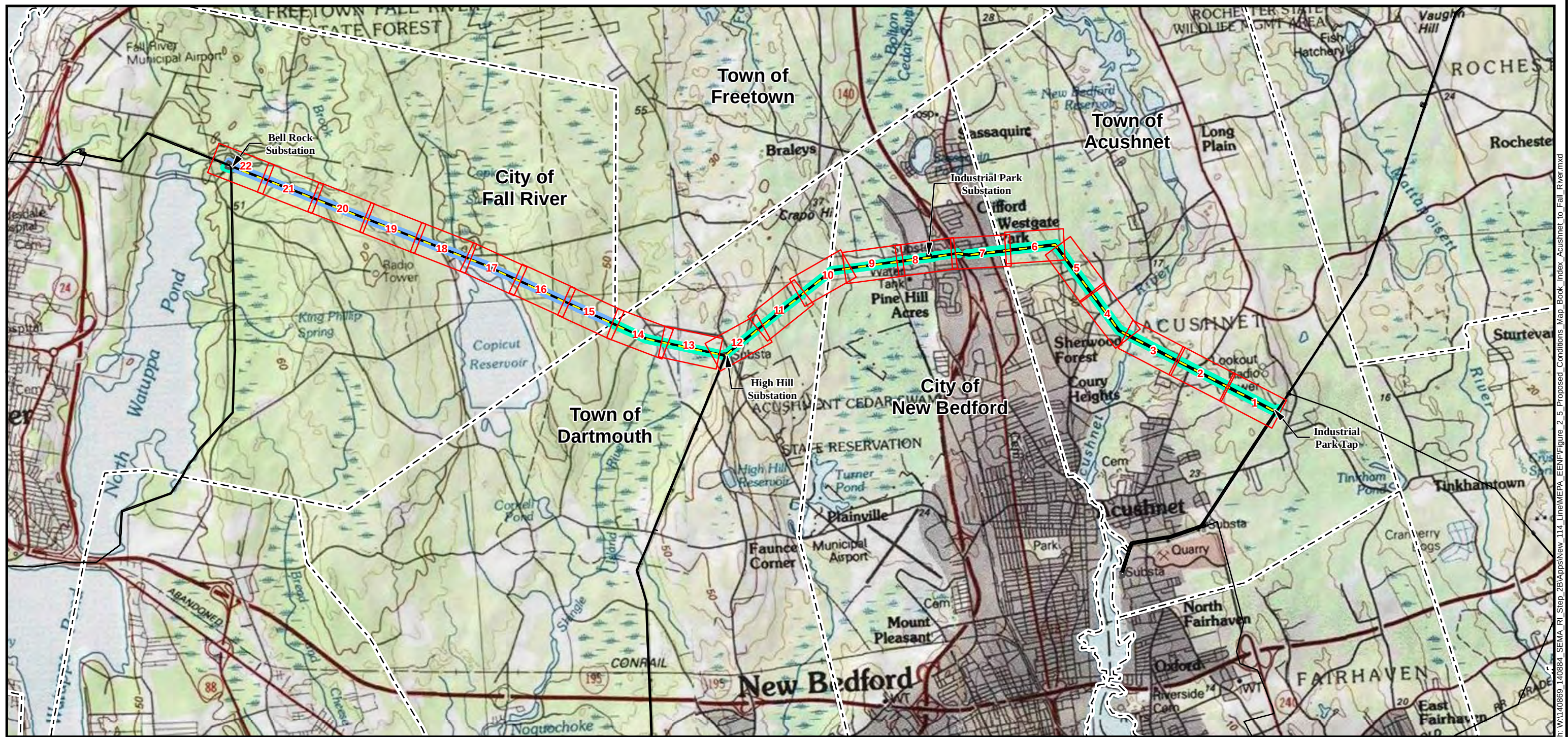
NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018 Author: TDH

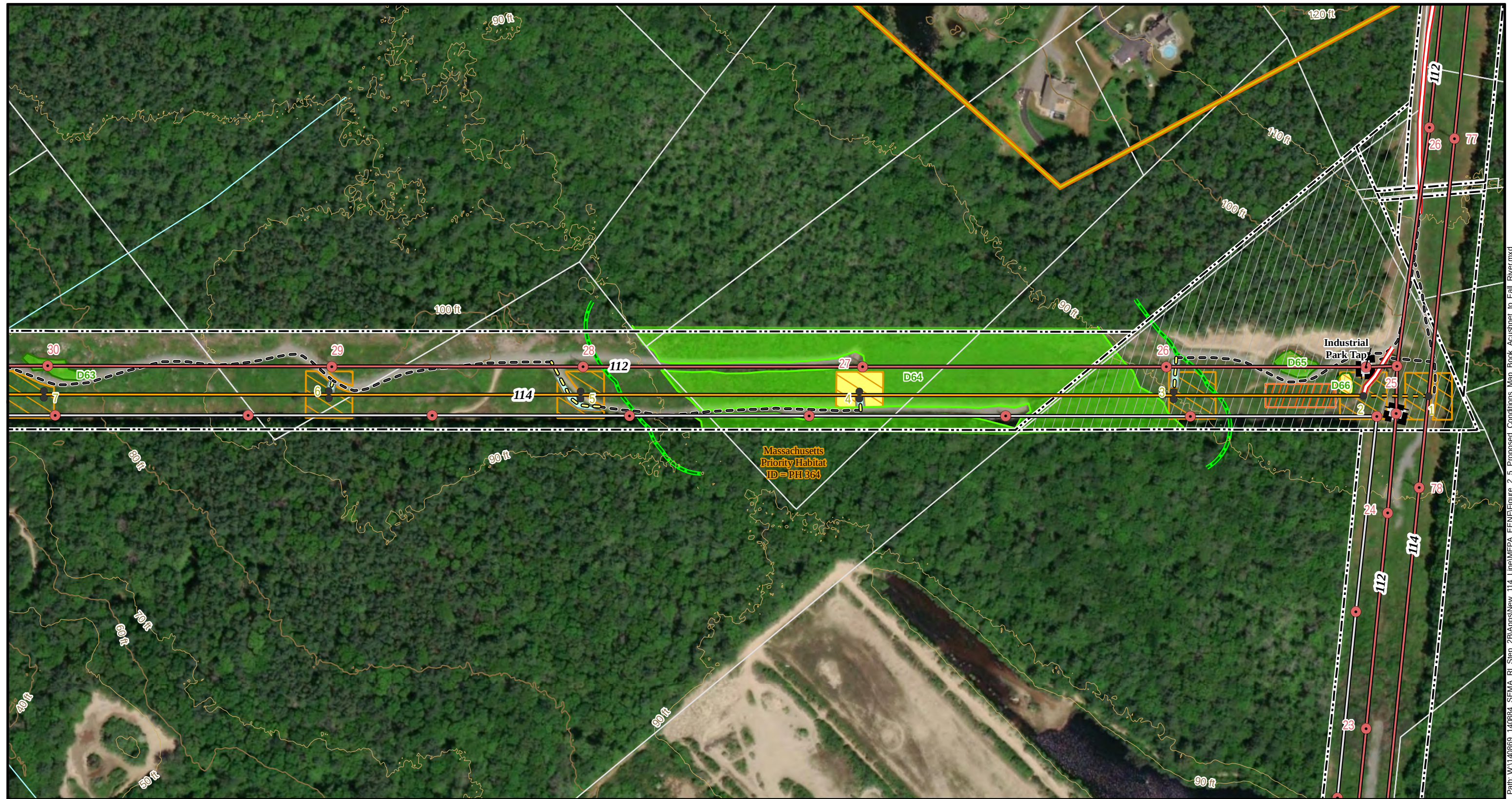
EVERSOURCE
nationalgrid

POWER ENGINEERS

Path: W:\140869_140884_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_4_Existing_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Path: W:\140369_140384_SEMA_PL_Step_2BApps\view_114_LineMEPA_EEN\Figure 2.5 Proposed Conditions Map Book Index Acushnet to Fall River.mxd



Path: W:\140869_140884_SEMA_RL_Step_2B\Aps\New_114_Line\MEPA_EEN\Figure_2_5_Proposed_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

- Proposed Steel Pole
- Proposed Transmission Line
- Proposed Underground Transmission Line
- Use Existing Access Road
- Improve Existing Access Road
- Construct New Access Road
- Improve Existing Access Road
- Wire Pulling Station
- Work Pad / Area
- Construction Mat
- Existing Structure
- Existing Transmission Line
- Sub-Transmission Line
- Substation or Tap
- Eversource Owned Land
- Existing Right of Way
- Parcel Boundary
- Field GPS Survey Line (2015-2018)
- Wetland Border
- Isolated Wetland Border
- Field Delineated Wetland
- Perennial Stream (NHD)
- 100 ft Buffer Wetland
- Priority Habitats Rare Species (MA-NHESP)
- Contour Line (20' Interval)
- Contour Line (10' Interval)

1" = 200'

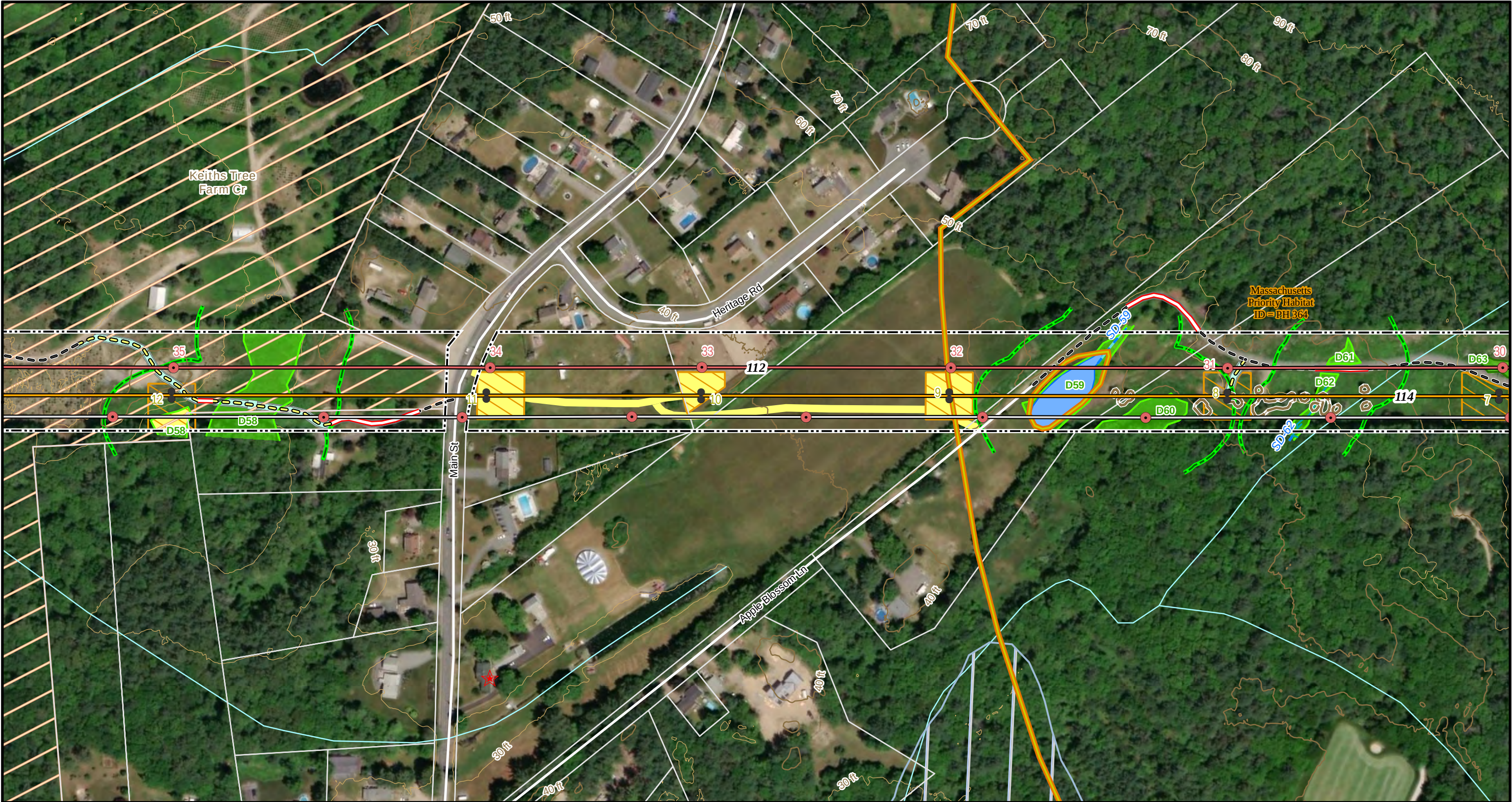
Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018 Author: TDH



Path: W:\140869_140884_SEMA_RI_Step_2B\AApps\New_114_Line\MEPA_EEN\Figure_2_5_Proposed_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

● Proposed Steel Pole	— Sub-Transmission Line	100 ft Buffer Wetland
— Proposed Transmission Line	— Existing Right of Way	FEMA Flood Hazard (DFIRM 100yr)
— Use Existing Access Road	— Parcel Boundary	Priority Habitats Rare Species (MA-NHESP)
— Improve Existing Access Road	— Field GPS Survey Line (2015-2018)	Other Protected Lands
— Construct New Access Road	— Surface Drainage	MA Historic Commission Historic Inventory Point
— Limit of Tree Clearing	— Wetland Border	Local Road
— Construct New Access Road	— Isolated Wetland Border	Contour Line (20' Interval)
— Improve Existing Access Road	— Intermittent Stream	Contour Line (10' Interval)
— Work Pad / Area	— Delineated Open Water	
— Construction Mat	— Field Delineated Wetland	
● Existing Structure	— Perennial Stream (NHD)	
— Existing Transmission Line		

1" = 200'

Feet

Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Page 2 of 22

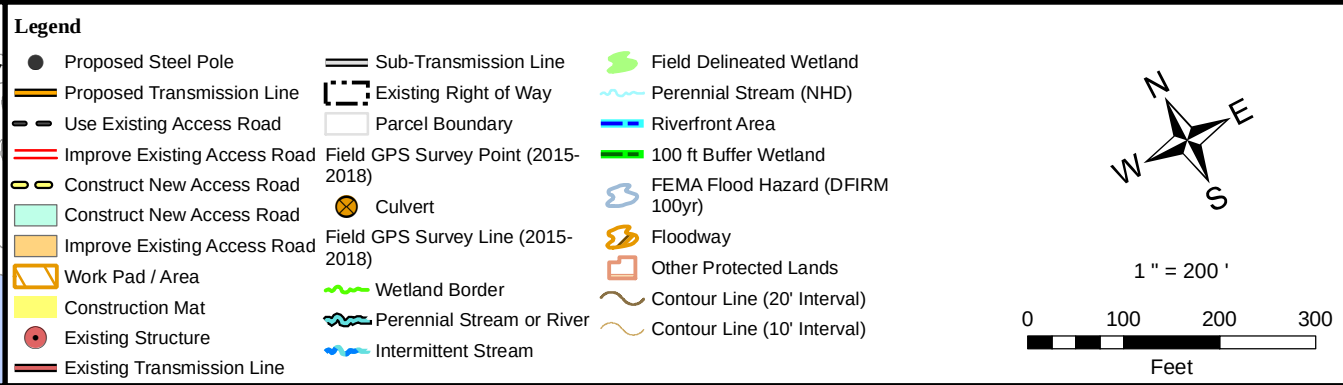
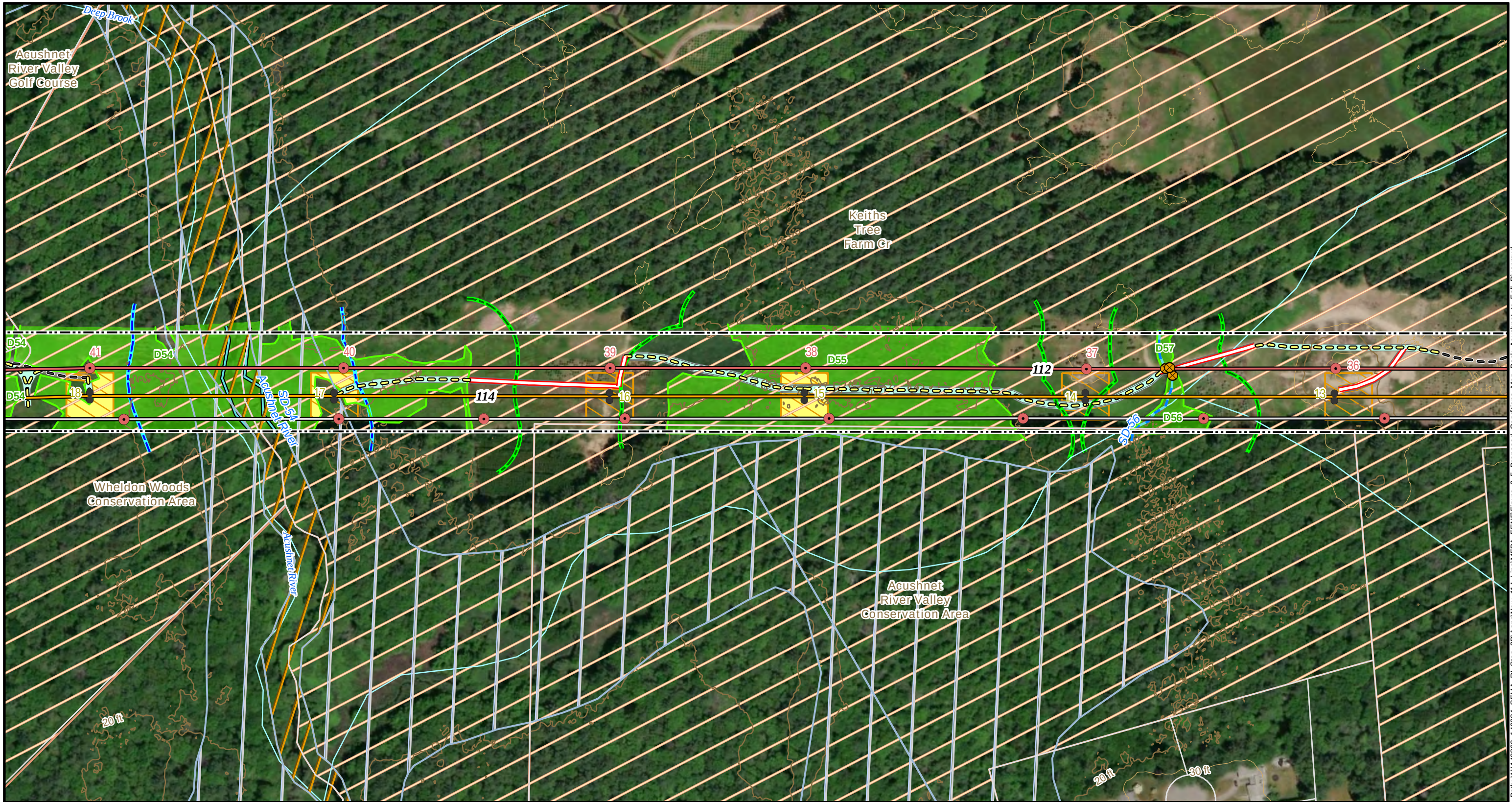
Commonwealth of Massachusetts

Bristol County:
Town of Acushnet

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018 Author: TDH



Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Page 3 of 22

Commonwealth of Massachusetts

Bristol County:
Town of Acushnet

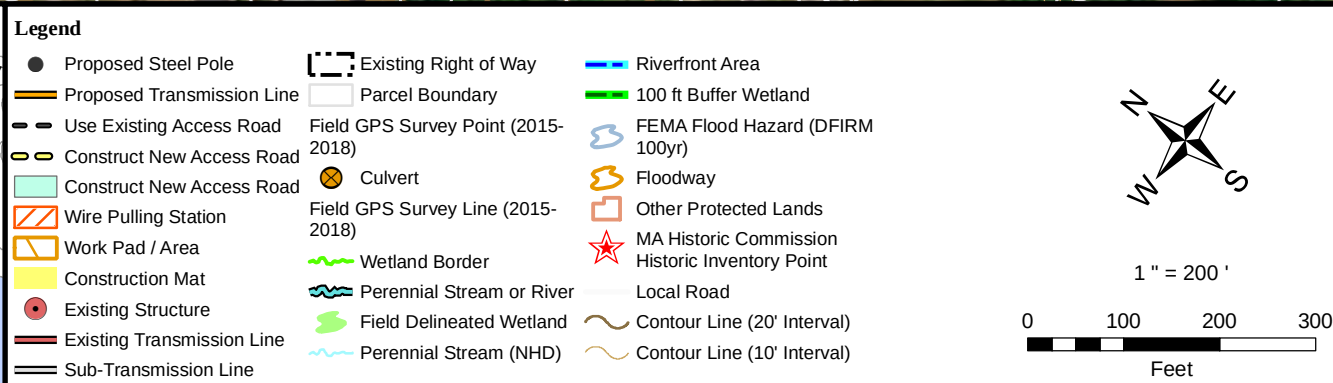
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH





Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Page 4 of 22

Commonwealth of Massachusetts

Bristol County:
Town of Acushnet

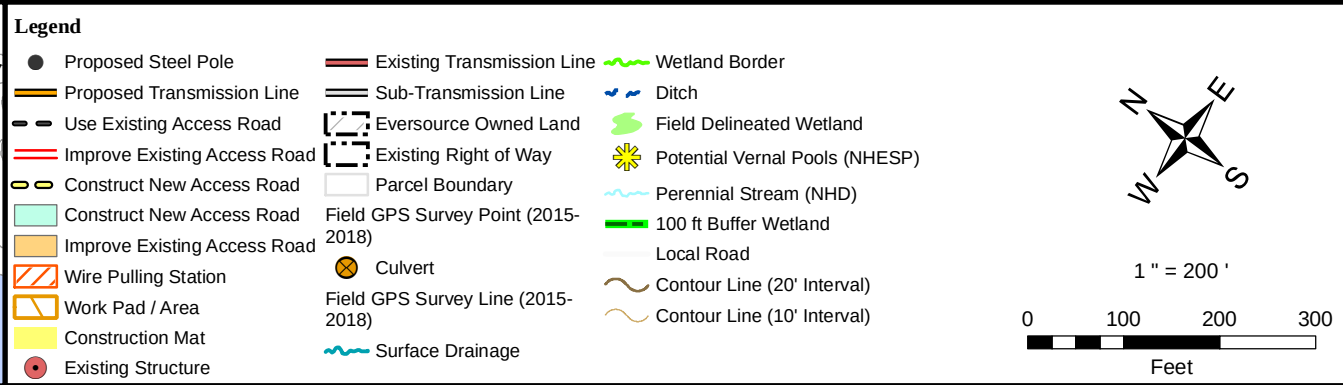
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH





Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Page 5 of 22

Commonwealth of Massachusetts

Bristol County:
Town of Acushnet

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH





Legend - Proposed Steel Pole - Proposed Transmission Line - Use Existing Access Road - Construct New Access Road - Wire Pulling Station - Work Pad / Area - Construction Mat - Existing Structure - Existing Transmission Line - Sub-Transmission Line	- Eversource Owned Land - Existing Right of Way - Parcel Boundary - Field GPS Survey Point (2015-2018) - Culvert - Field GPS Survey Line (2015-2018) - Wetland Border - Ditch - Field Delineated Wetland	- Perennial Stream (NHD) 100 ft Buffer Wetland - FEMA Flood Hazard (DFIRM 100yr) - Local Road - Contour Line (20' Interval) - Contour Line (10' Interval)
---	--	--

1" = 200'

Feet

Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

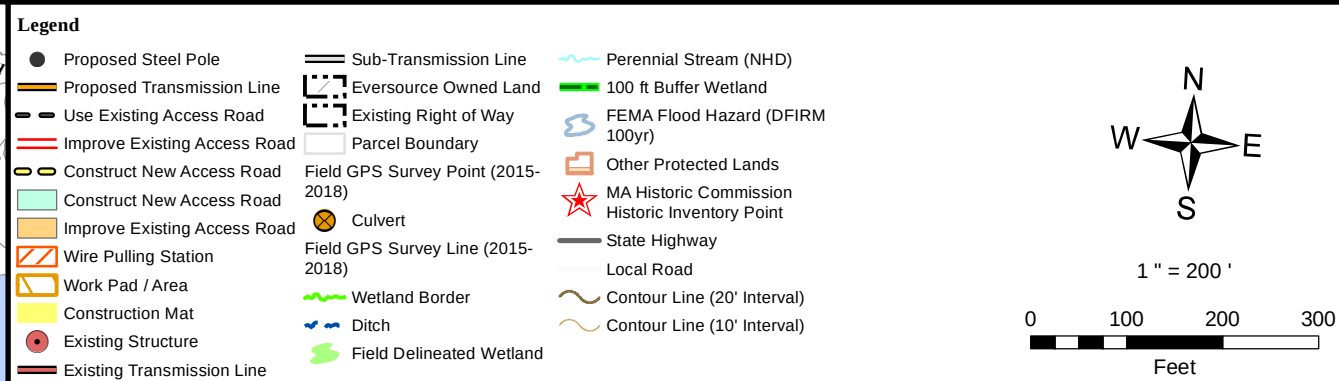
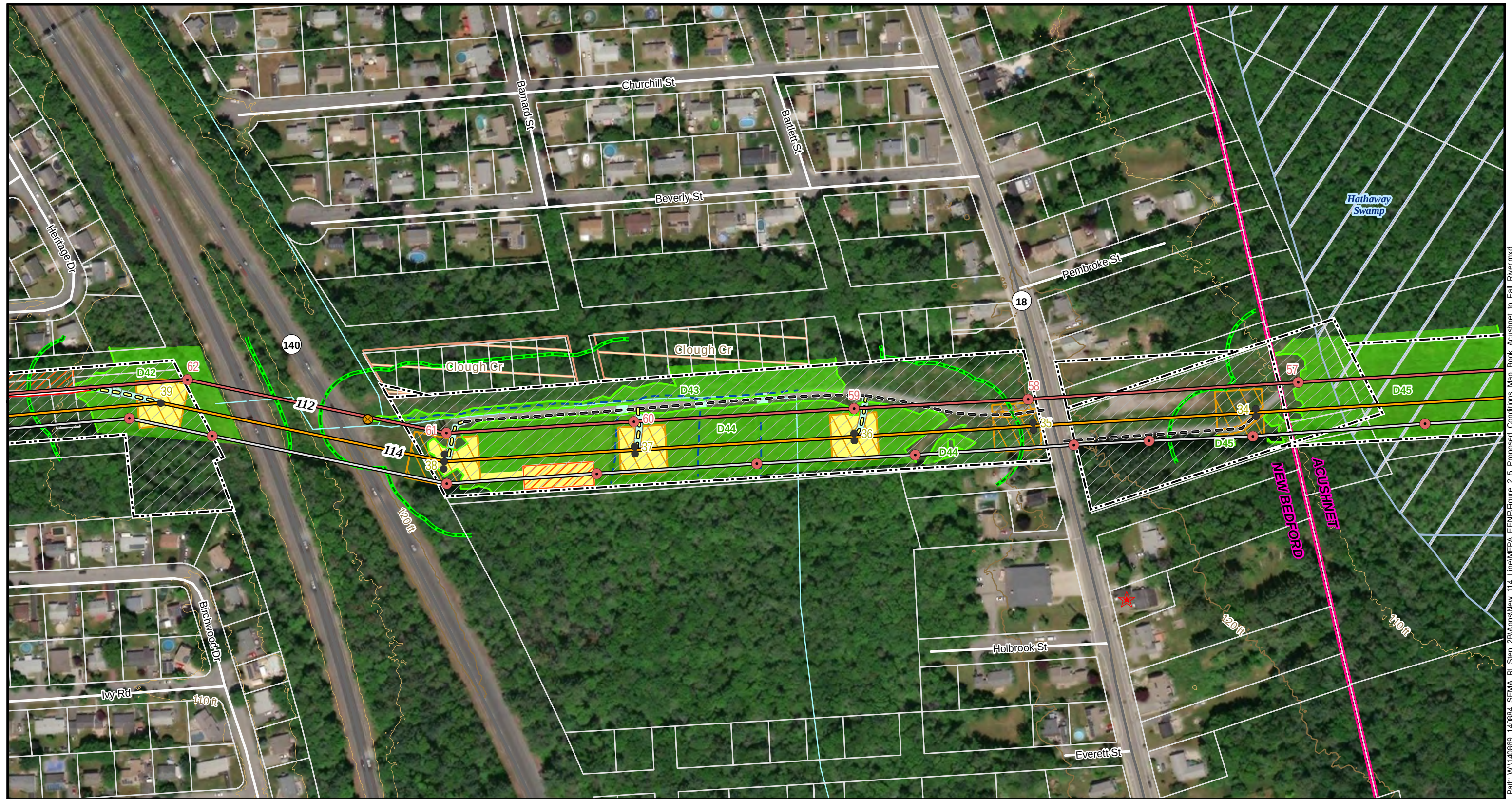
NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH



Path: W:\140869_140884_SEMA_RI_Step_2BApps\New_114_Line\MEPA_EEN\Figure_2_5_Proposed_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

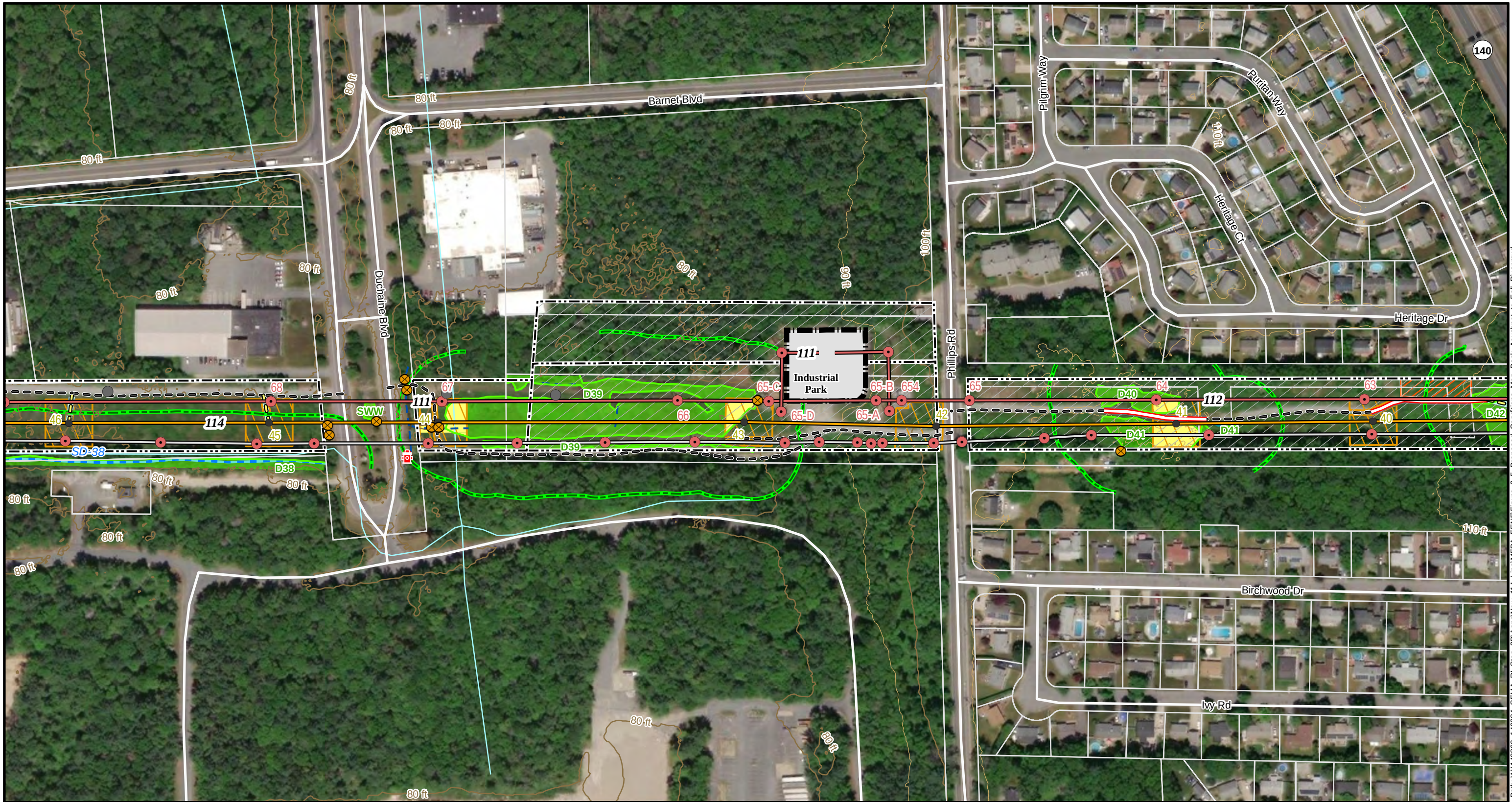
NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

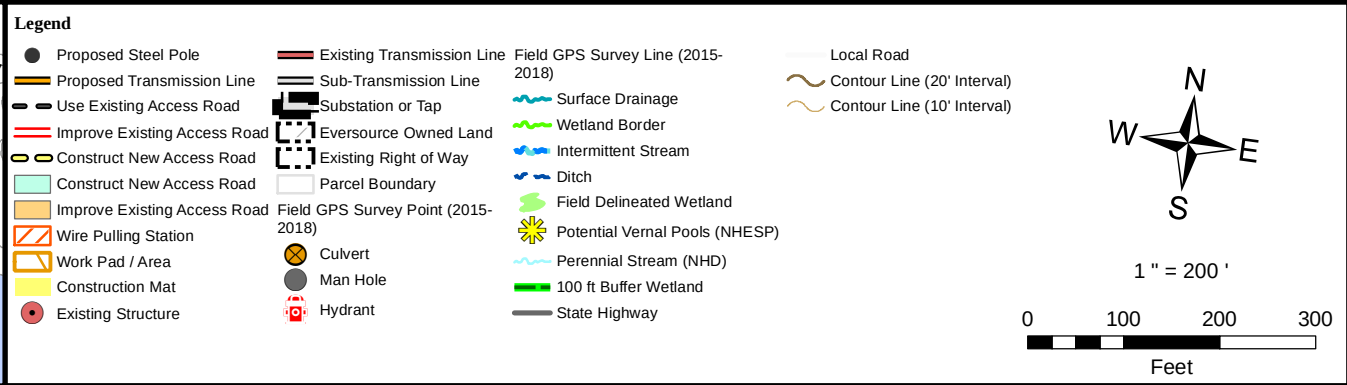
Author: TDH



Path: W:\140869_140884_SEMA_RL_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_5_Proposed_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Path: W:\140869_140884_SEMA_RL_Step_2B\AApps\New_114_Line\MEPA_EEN\Figure_2_5_Proposed_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Page 8 of 22

Commonwealth of Massachusetts

Bristol County:
City of New Bedford

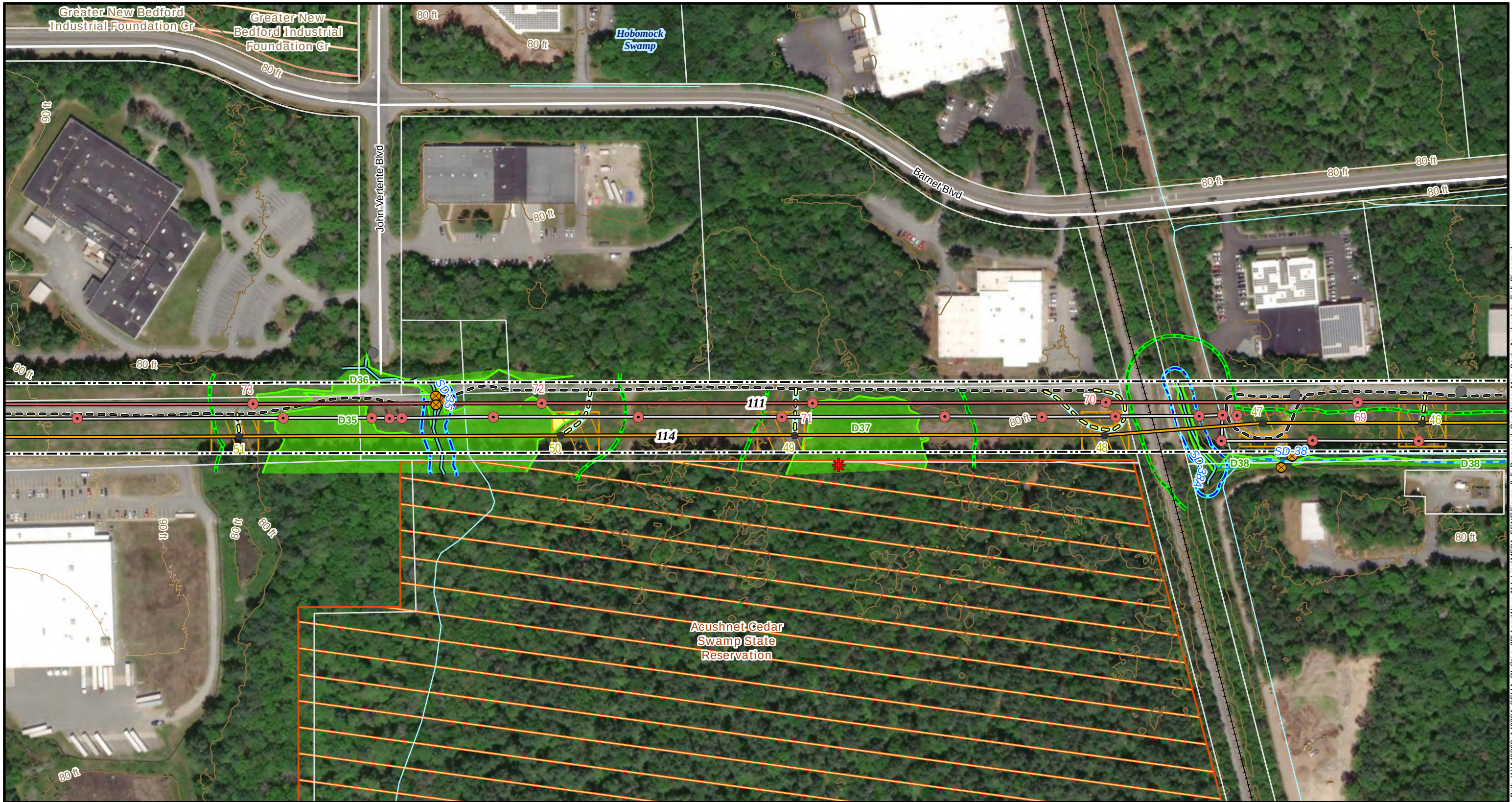
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

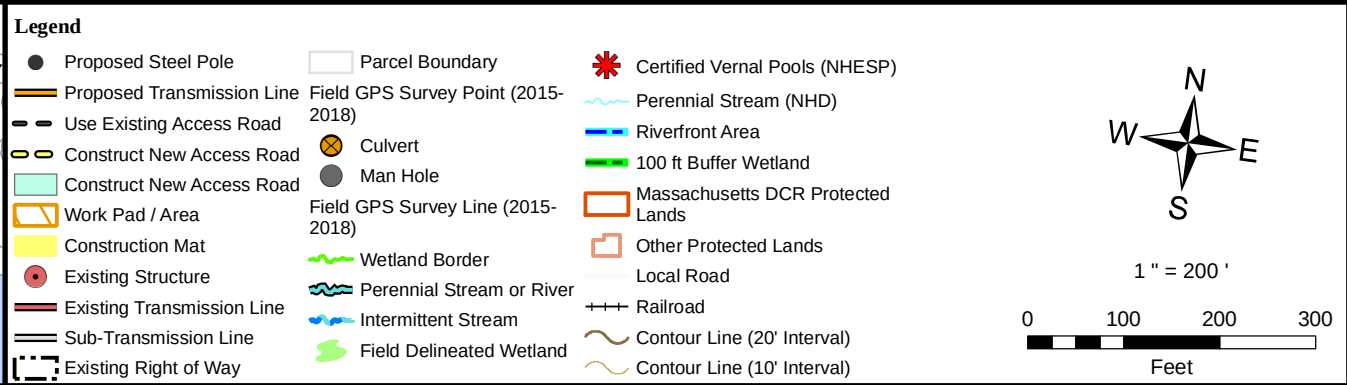
Date: 11/13/2018

Author: TDH





Path: W:\140869_140884_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EENR\Figure_2_5_Proposed_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Page 9 of 22

Commonwealth of Massachusetts

Bristol County:
City of New Bedford

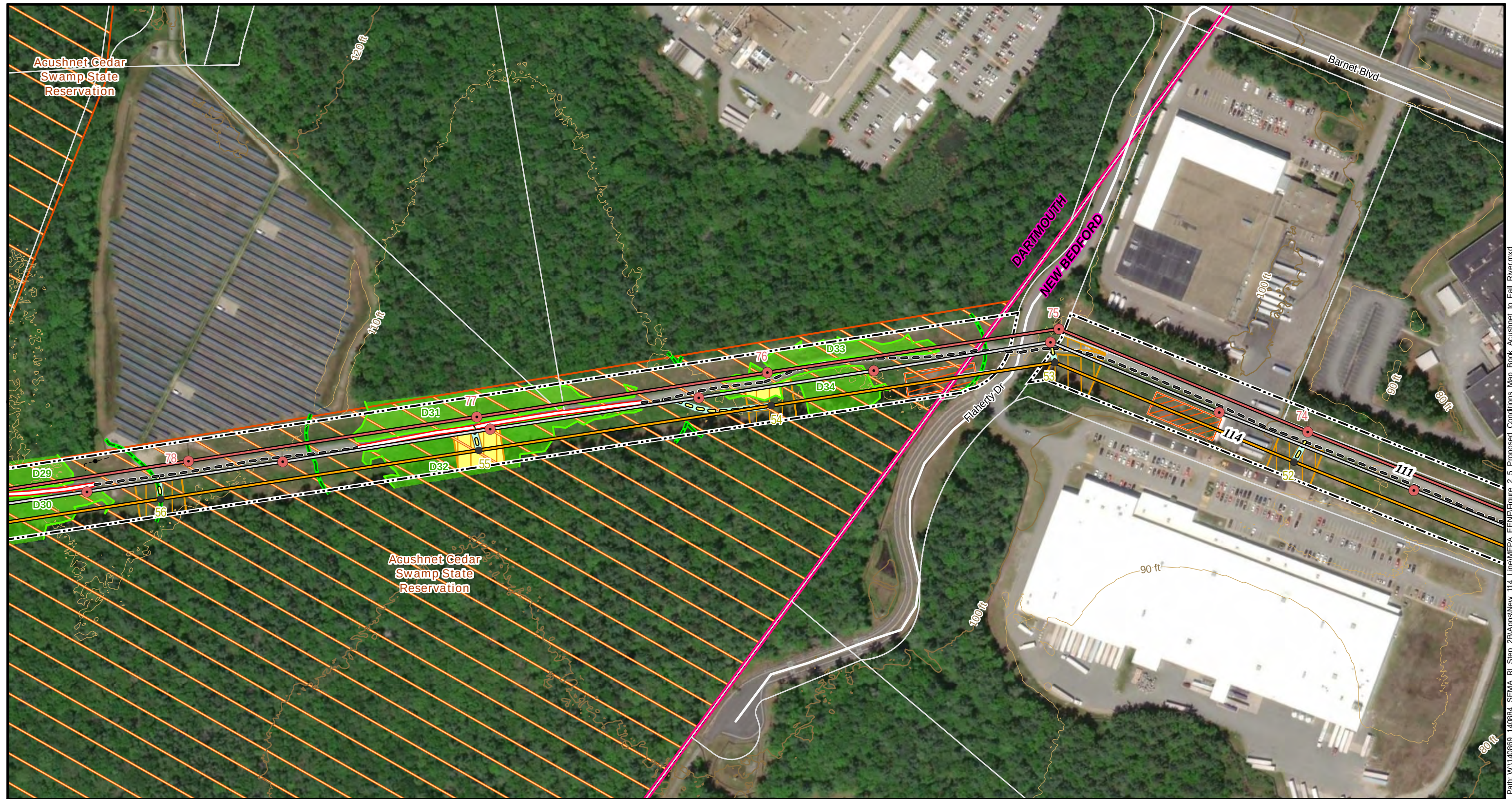
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH





Legend

● Proposed Steel Pole	— Existing Transmission Line	▭ Massachusetts DCR Protected Lands
— Proposed Transmission Line	— Sub-Transmission Line	— Local Road
— Use Existing Access Road	— Existing Right of Way	— Contour Line (20' Interval)
— Improve Existing Access Road	— Parcel Boundary	— Contour Line (10' Interval)
— Construct New Access Road	— Field GPS Survey Line (2015-2018)	— Pipeline
— Construct New Access Road	— Wetland Border	— Wetland Border
— Improve Existing Access Road	— Field Delineated Wetland	— Field Delineated Wetland
▨ Wire Pulling Station	— 100 ft Buffer Wetland	— 100 ft Buffer Wetland
▨ Work Pad / Area		
▨ Construction Mat		
● Existing Structure		

1" = 200'

0 100 200 300 Feet

Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018 Author: TDH

EVERSOURCE
nationalgrid

POWER ENGINEERS

Path: W:\140869_140884_SEMA_RI_Step_2BApps\New_114_Line\MEPA_EEN\Figure_2_5_Proposed_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Path: W:\140869_140884_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_5_Proposed_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

● Proposed Steel Pole	— Sub-Transmission Line	100 ft Buffer Wetland
— Proposed Transmission Line	— Existing Right of Way	Massachusetts DCR Protected Lands
— Use Existing Access Road	— Parcel Boundary	Other Protected Lands
— Improve Existing Access Road	Field GPS Survey Point (2015-2018)	Contour Line (20' Interval)
— Construct New Access Road	● Culvert	Contour Line (10' Interval)
— Construct New Access Road	Field GPS Survey Line (2015-2018)	
— Improve Existing Access Road	— Pipeline	
Work Pad / Area	Wetland Border	
Construction Mat	Field Delineated Wetland	
● Existing Structure		
— Existing Transmission Line		

Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Page 11 of 22

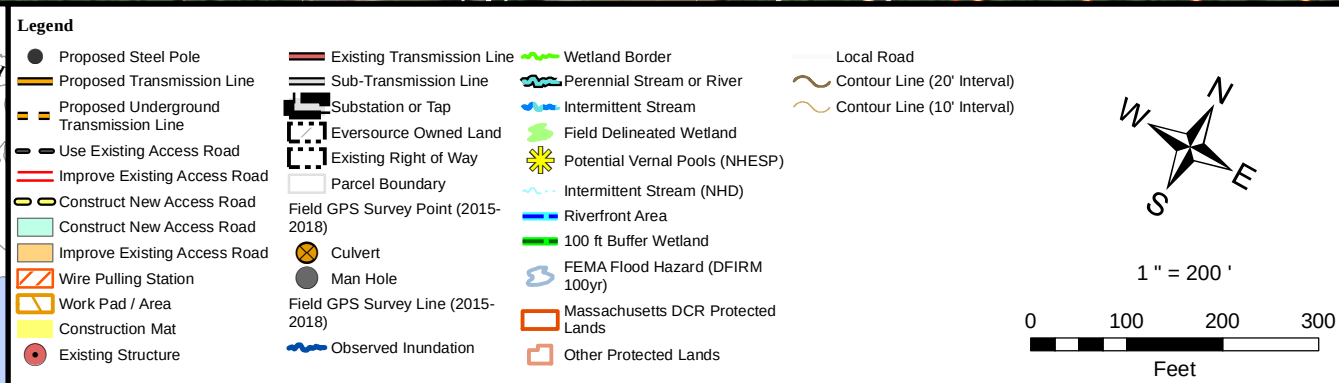
Commonwealth of Massachusetts

Bristol County:
Town of Dartmouth

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018 Author: TDH



Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Page 12 of 22

Commonwealth of Massachusetts

Bristol County:
Town of Dartmouth

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

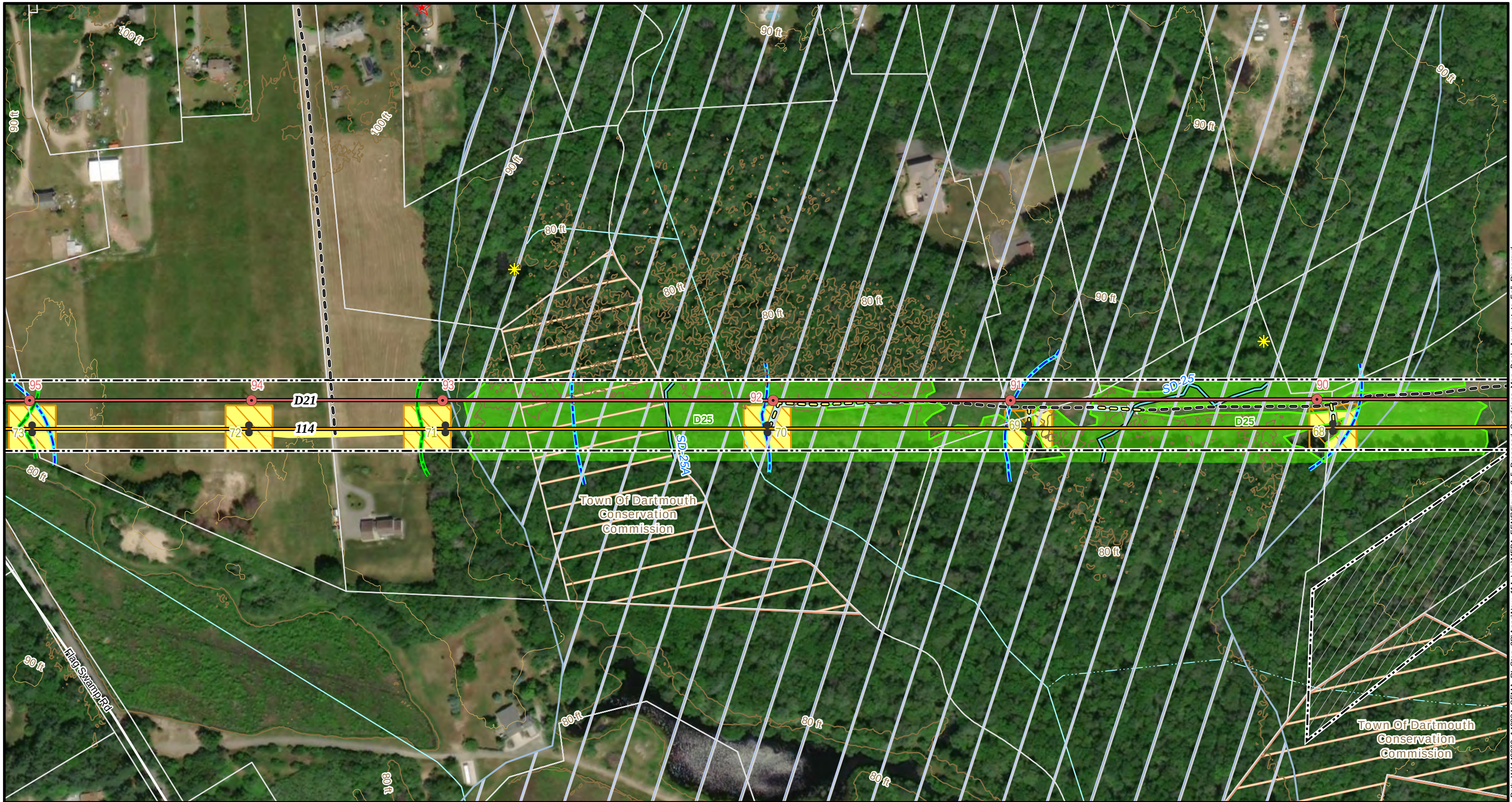
NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH



Path: W:\140669_140684_SEMA_RI_Step_2BApps\New_114_LineMEPA_EENR\Figure_2_5_Proposed_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

● Proposed Steel Pole	Parcel Boundary	FEMA Flood Hazard (DFIRM 100yr)
— Proposed Transmission Line	Field GPS Survey Line (2015-2018)	Other Protected Lands
— Use Existing Access Road	Wetland Border	MA Historic Commission Historic Inventory Point
— Construct New Access Road	Perennial Stream or River	Local Road
— Construct New Access Road	Field Delineated Wetland	Contour Line (20' Interval)
Work Pad / Area	Potential Vernal Pools (NHESP)	Contour Line (10' Interval)
Construction Mat	Perennial Stream (NHD)	
● Existing Structure	Intermittent Stream (NHD)	
— Existing Transmission Line	Riverfront Area	
Eversource Owned Land	100 ft Buffer Wetland	
Existing Right of Way		

1" = 200'

0 100 200 300 Feet

W N E S

Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Page 13 of 22

Commonwealth of Massachusetts

Bristol County:
Town of Dartmouth

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

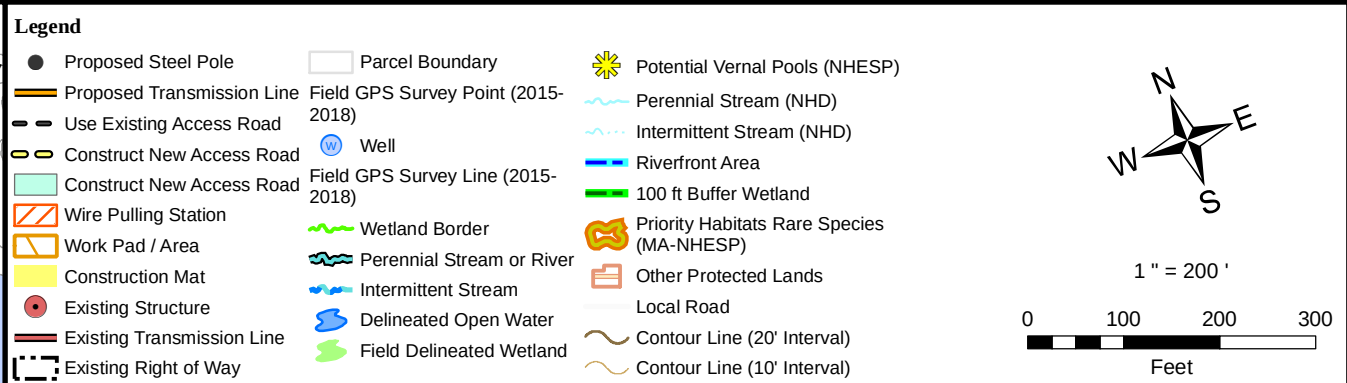
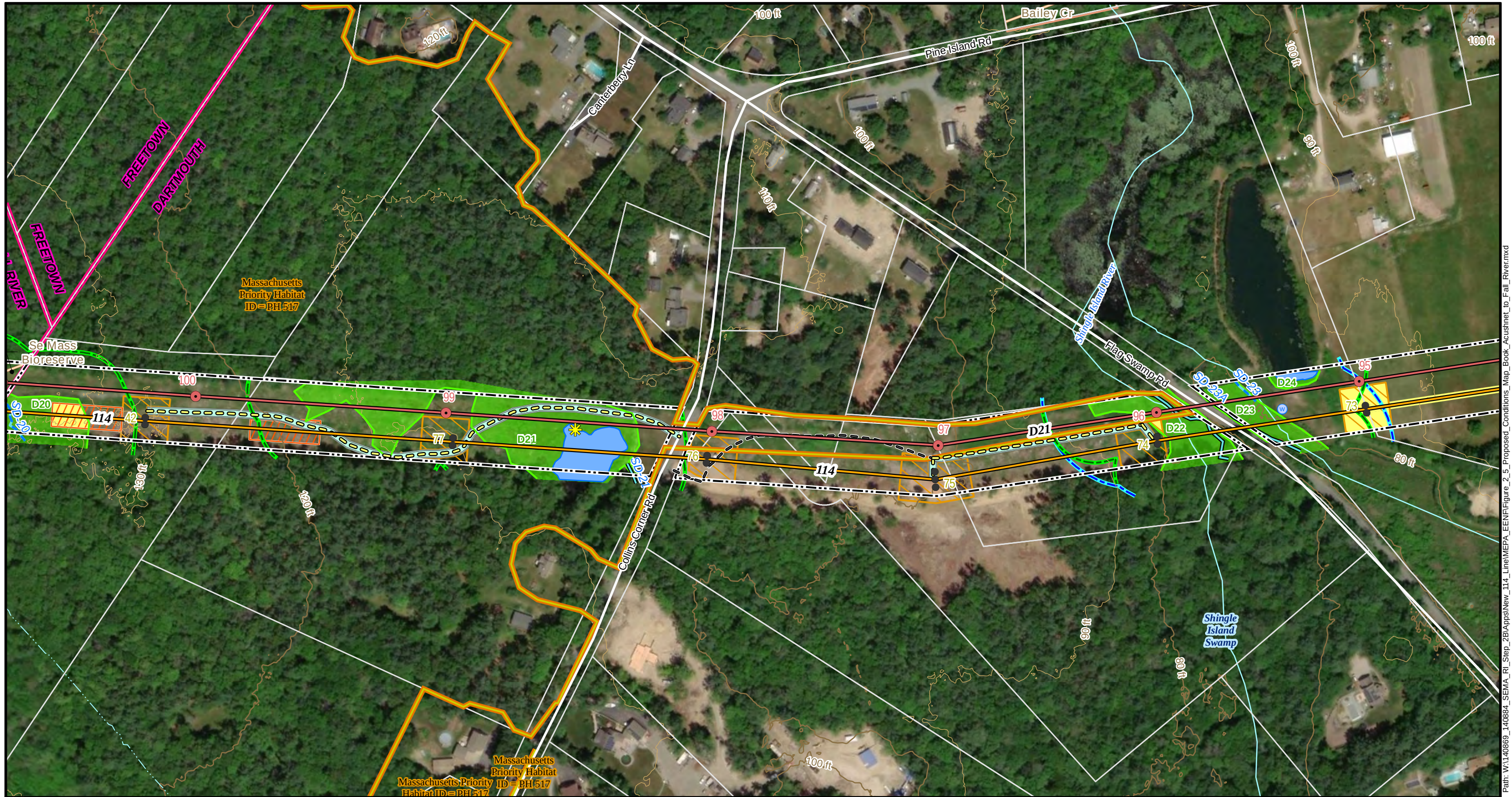
Date: 11/13/2018 Author: TDH

EVERSOURCE

nationalgrid

POWER ENGINEERS

Path: W:\140669_140684_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_5_Proposed_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Page 14 of 22

Commonwealth of Massachusetts

Bristol County:
Town of Dartmouth

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH





Path: W:\140669_140684_SEMA_RI_Step_2B\AApps\New_114_Line\MEPA_EEN\Figure_2_5_Proposed_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

● Proposed Steel Pole	Existing Transmission Line	Ditch
Proposed Transmission Line	Existing Right of Way	Field Delineated Wetland
Use Existing Access Road	Parcel Boundary	Intermittent Stream (NHD)
Improve Existing Access Road	Field GPS Survey Point (2015-2018)	100 ft Buffer Wetland
Construct New Access Road	Vernal Pool	Priority Habitats Rare Species (MA-NHESP)
Limit of Tree Clearing	Field GPS Survey Line (2015-2018)	Massachusetts DCR Protected Lands
Construct New Access Road	Observed Inundation	Other Protected Lands
Improve Existing Access Road	Wetland Border	Contour Line (20' Interval)
Wire Pulling Station	Intermittent Stream	Contour Line (10' Interval)
Work Pad / Area		
Construction Mat		
Existing Structure		

1" = 200'

0 100 200 300 Feet

Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Page 15 of 22

Commonwealth of Massachusetts

Bristol County:
Towns of Dartmouth & Freetown, City of Fall River

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

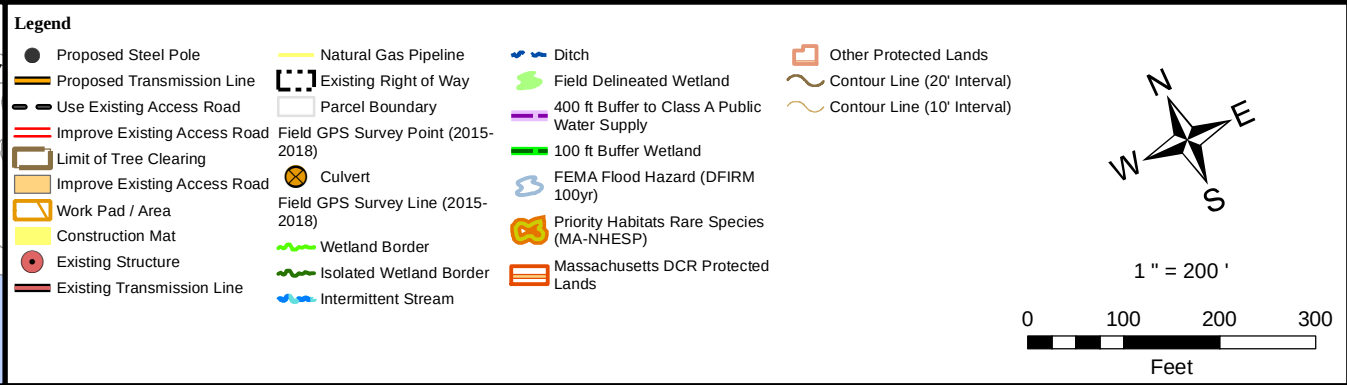
NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018 Author: TDH

EVERSOURCE

nationalgrid

POWER ENGINEERS



Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

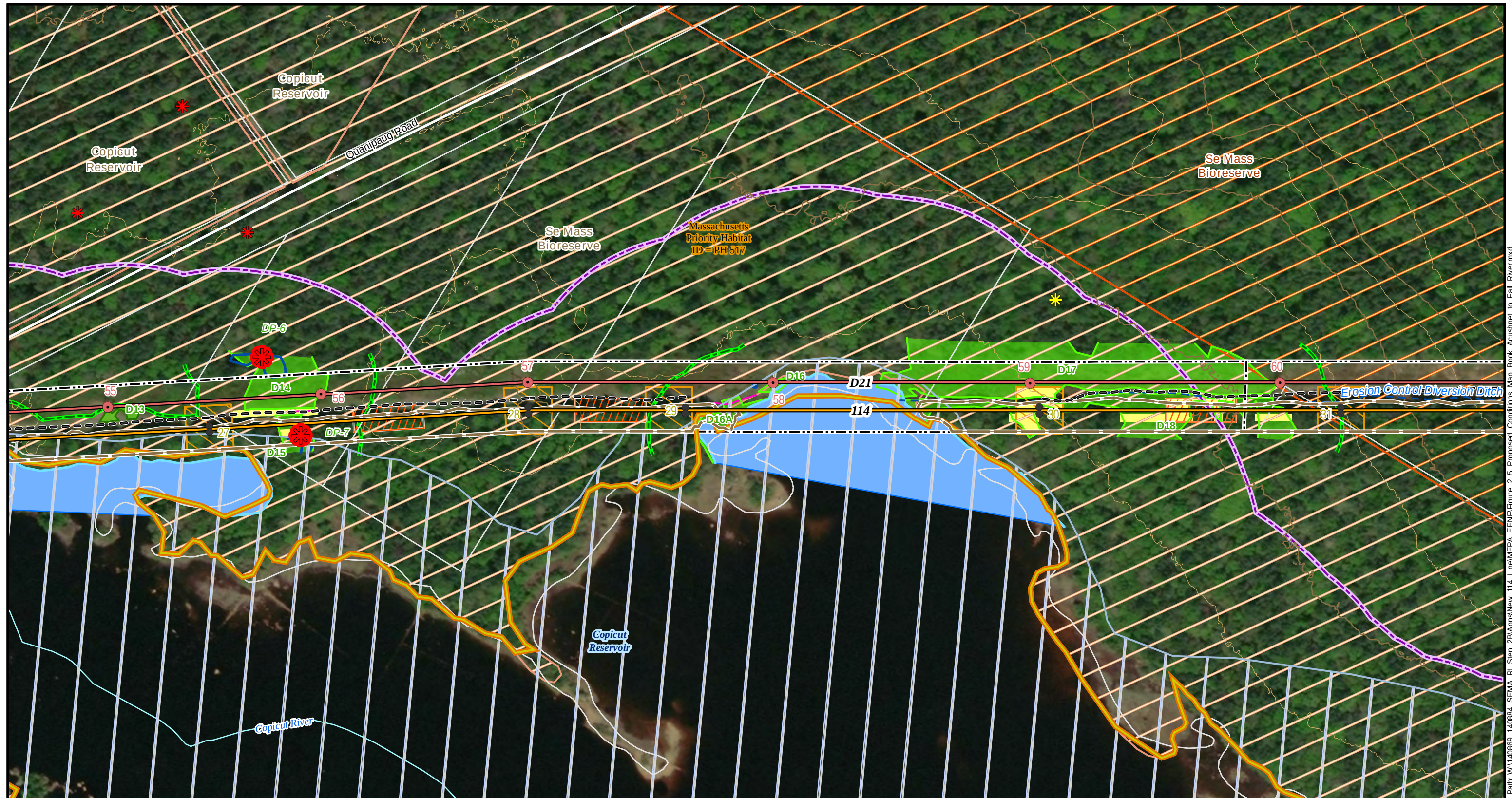
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

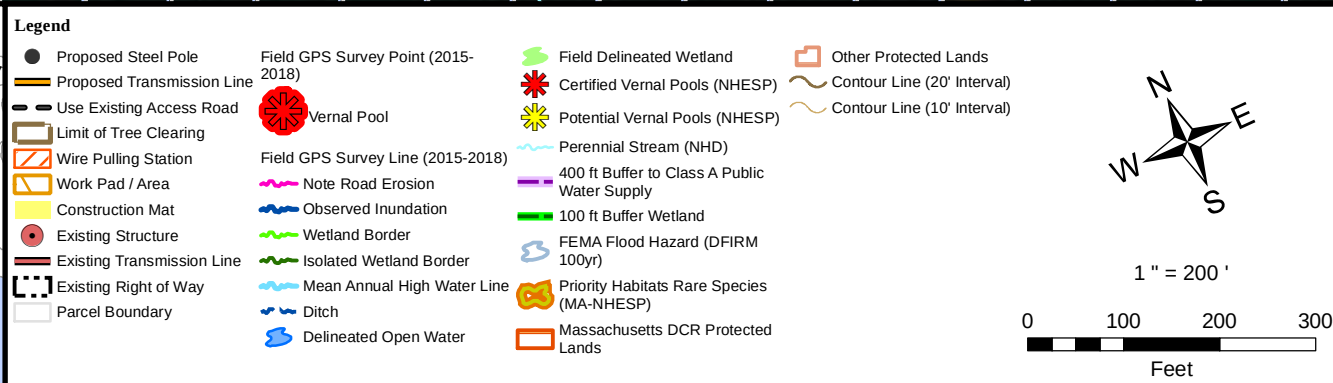
Date: 11/13/2018

Author: TDH





Path: W:\140869_140884_SEMA_RI_Step_2BAAppslNew_114_LineMEPA_EENR\Figure 2_5_Proposed Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Page 17 of 22

Commonwealth of Massachusetts

Bristol County:
City of Fall River

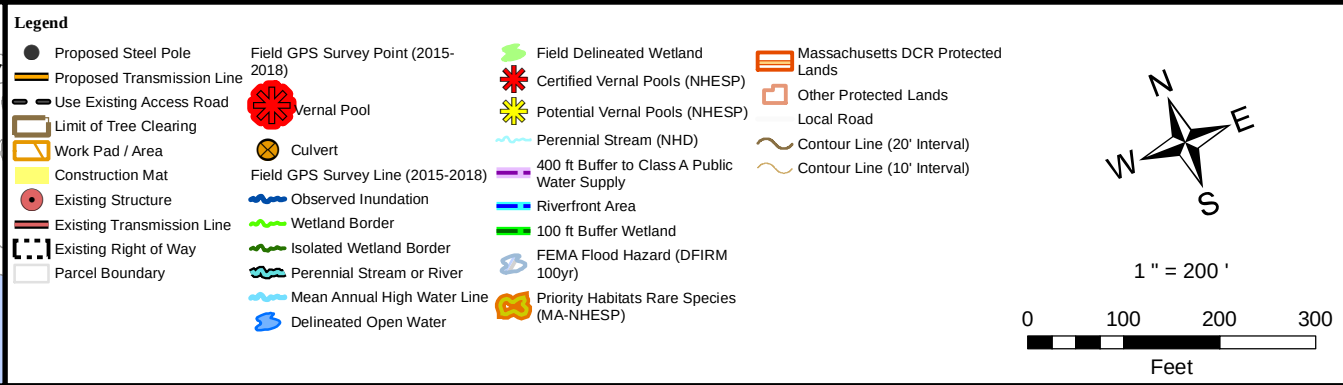
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH





Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Page 18 of 22

Commonwealth of Massachusetts

Bristol County:
City of Fall River

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

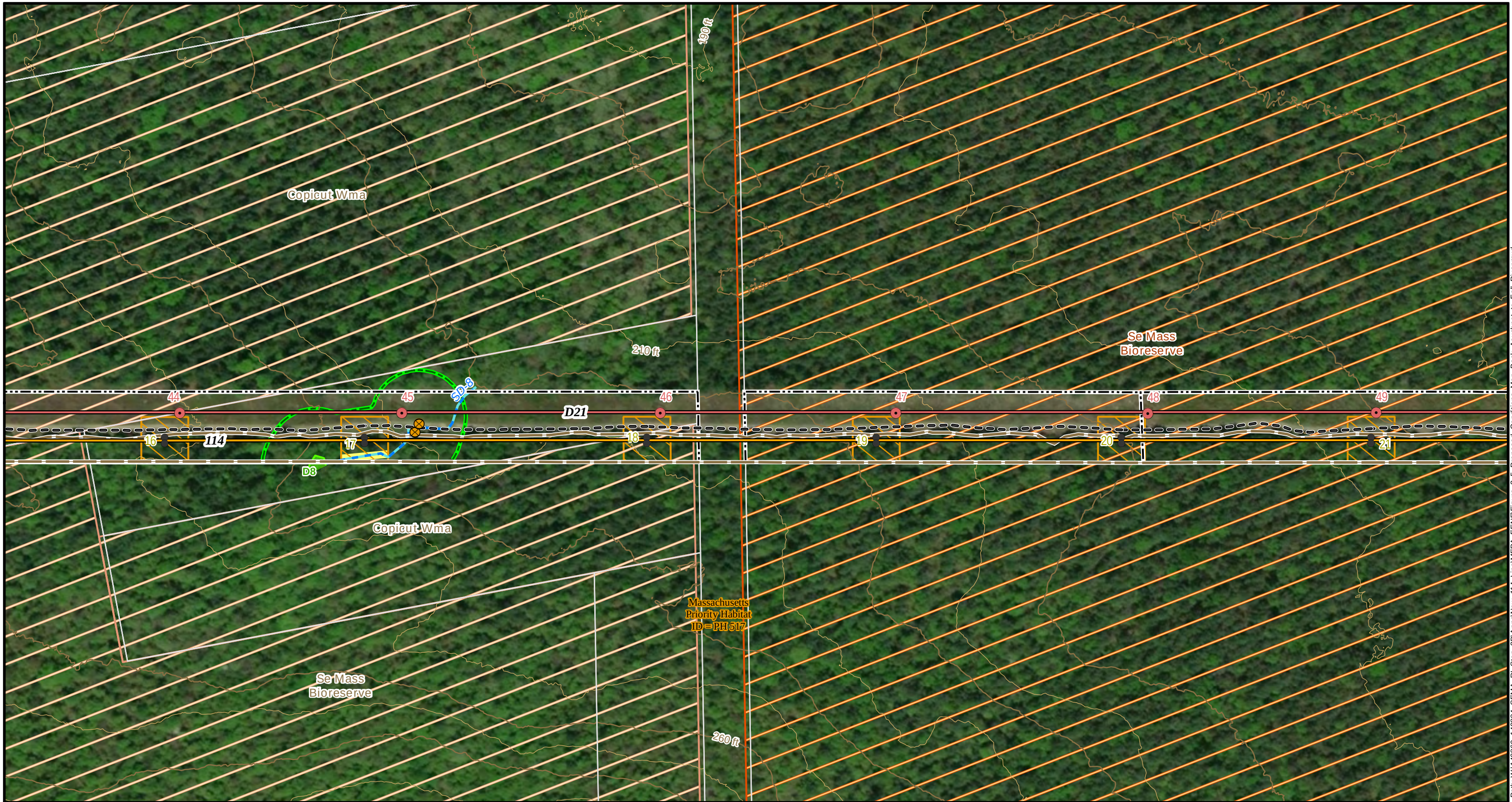
NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH



Path: W:\140669_140684_SEMA_RI_Step_2BApps\New_114_LineMEPA_EEN\Figure_2_5_Proposed_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Path: W:\140669_140684_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_5_Proposed_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

- Proposed Steel Pole
- Proposed Transmission Line
- Use Existing Access Road
- Limit of Tree Clearing
- Work Pad / Area
- Construction Mat
- Existing Structure
- Existing Transmission Line
- Existing Right of Way
- Parcel Boundary

Field GPS Survey Point (2015-2018)

Field GPS Survey Line (2015-2018)

- Wetland Border
- Intermittent Stream
- Field Delineated Wetland
- 100 ft Buffer Wetland
- Priority Habitats Rare Species (MA-NHESP)

- Massachusetts DCR Protected Lands
- Other Protected Lands
- Contour Line (20' Interval)
- Contour Line (10' Interval)

1" = 200'

Feet

Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Page 19 of 22

Commonwealth of Massachusetts

Bristol County:
City of Fall River

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH





Legend

- Proposed Steel Pole
- Proposed Transmission Line
- Use Existing Access Road
- Limit of Tree Clearing
- Wire Pulling Station
- Work Pad / Area
- Existing Structure
- Existing Transmission Line
- Existing Right of Way
- Parcel Boundary

Field GPS Survey Point (2015-2018)

Vernal Pool

Field GPS Survey Line (2015-2018)

Observed Inundation

Isolated Wetland Border

Field Delineated Wetland

Priority Habitats Rare Species (MA-NHESP)

Other Protected Lands

Contour Line (20' Interval)

Contour Line (10' Interval)

1" = 200'

0 100 200 300 Feet

North Arrow

Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Page 20 of 22

Commonwealth of Massachusetts

Bristol County:
City of Fall River

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018 Author: TDH

Path: W:\140669_140684_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_5_Proposed_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Legend

● Proposed Steel Pole	Field GPS Survey Point (2015-2018)	✱ Certified Vernal Pools (NHESP)
— Proposed Transmission Line	✱ Vernal Pool	✱ Potential Vernal Pools (NHESP)
- - Use Existing Access Road	● Culvert	— Perennial Stream (NHD)
— Limit of Tree Clearing	— Field GPS Survey Line (2015-2018)	— Intermittent Stream (NHD)
— Wire Pulling Station	— Observed Inundation	— 100 ft Buffer Wetland
— Work Pad / Area	— Wetland Border	— Priority Habitats Rare Species (MA-NHESP)
— Construction Mat	— Intermittent Stream	— Other Protected Lands
● Existing Structure	— Field Delineated Wetland	— Contour Line (20' Interval)
— Existing Transmission Line		— Contour Line (10' Interval)
- - Existing Right of Way		
— Parcel Boundary		

1" = 200'

0 100 200 300 Feet

Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Page 21 of 22

Commonwealth of Massachusetts

Bristol County:
City of Fall River

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NAD 1983 UTM Zone 18N USFt

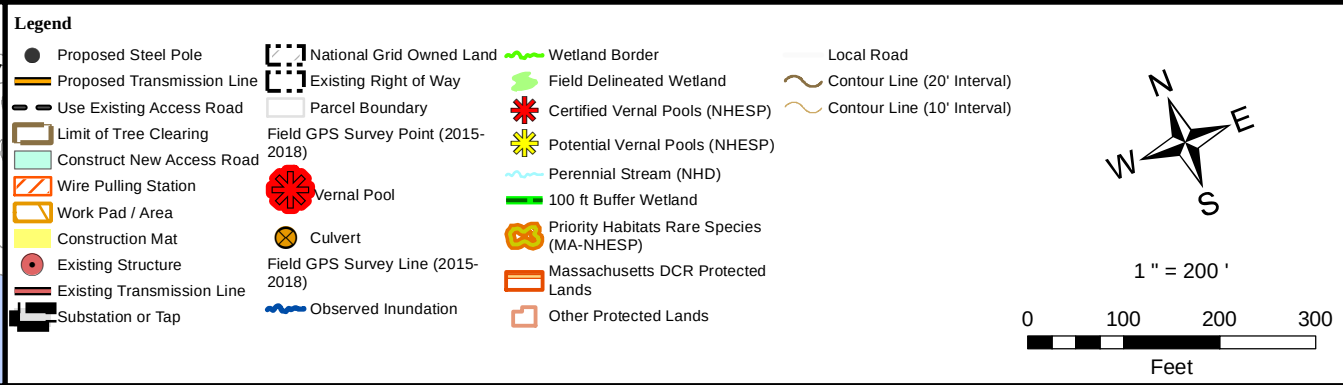
Date: 11/13/2018 Author: TDH

EVERSOURCE

nationalgrid

POWER ENGINEERS

Path: W:\140869_140884_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_5_Proposed_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



Acushnet to Fall River Reliability Project

Figure 2-5: Proposed Conditions

Page 22 of 22

Commonwealth of Massachusetts

Bristol County:
City of Fall River

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

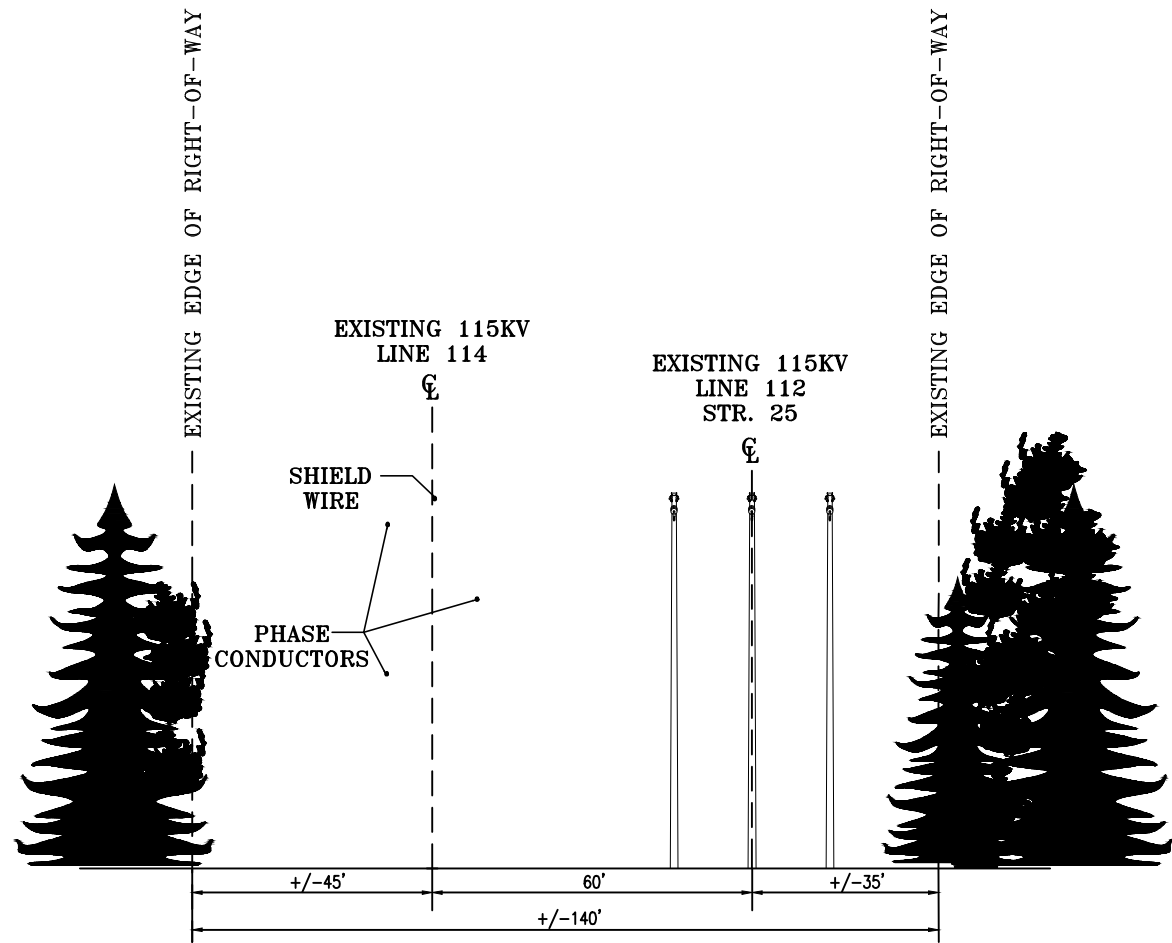
NAD 1983 UTM Zone 18N USFt

Date: 11/13/2018

Author: TDH

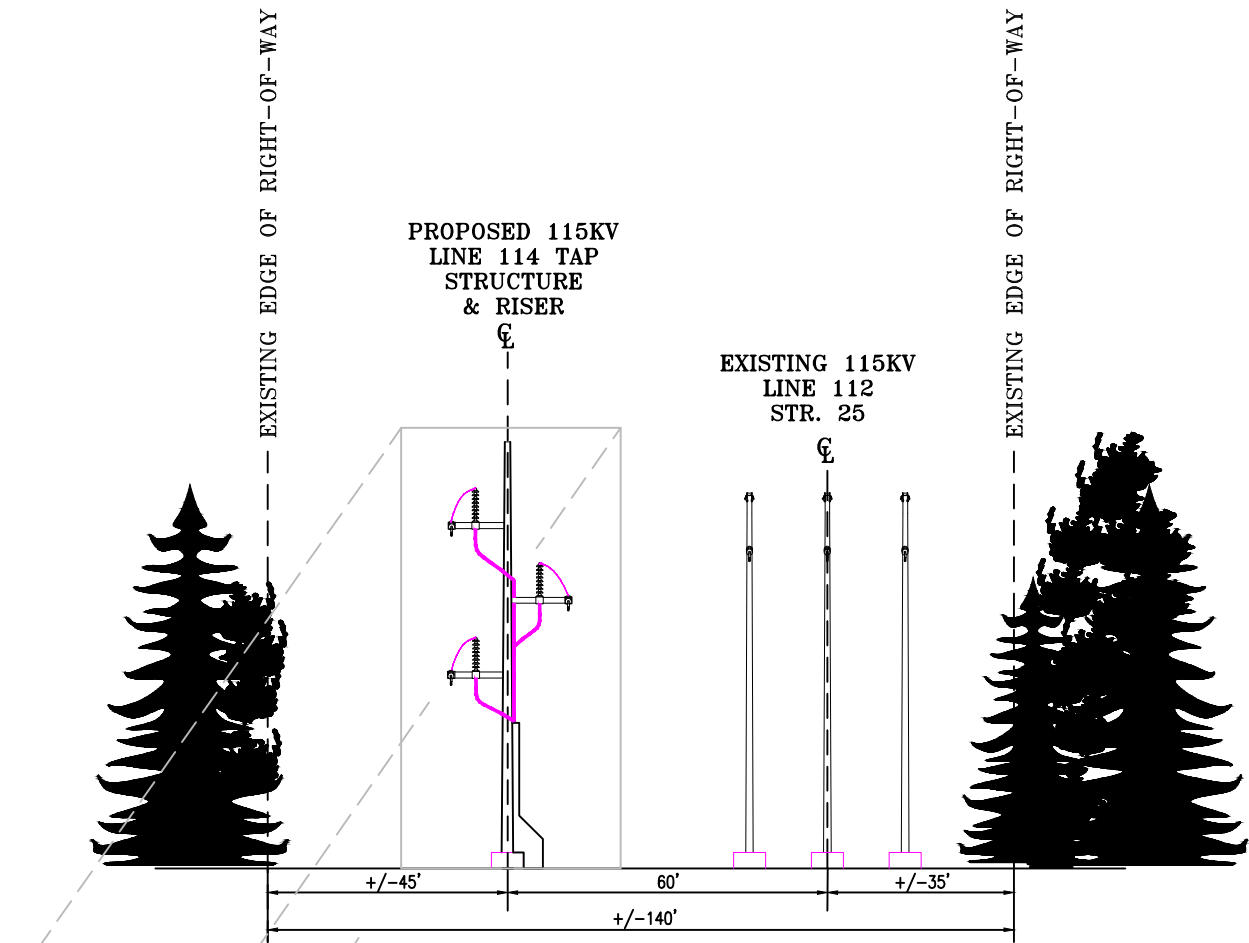


Path: W:\140869_140884_SEMA_RI_Step_2B\Apps\New_114_Line\MEPA_EEN\Figure_2_5_Proposed_Conditions_Map_Book_Acushnet_to_Fall_River.mxd



EXISTING R.O.W. AT TAP POINT

EXISTING CONFIGURATION: SINGLE CIRCUIT DELTA MONO POLES (STEEL) & H-FRAME LOOKING SOUTH WEST



PROPOSED R.O.W. AT TAP POINT

PROPOSED CONFIGURATION: VERTICAL TAP STRUCTURE & RISER TO UNDERGROUND LOOKING SOUTH WEST

ISOMETRIC VIEW

Figure 2-6: Typical ROW Cross- Section Drawings
Sheet 1 of 7

						EVERSOURCE ENERGY				
						TITLE LINE 114 EXTENSION LINE 114 TAP TO NATIONAL GRID INTERCONNECTION TYPICAL ROW CROSS SECTION ACUSHNET/NEW BEDFORD, MASS				
						BY JJD/TRC	CHKD BAF/TRC	APP TRB/TRC	APP	
						DATE 4/30/18	DATE 4/30/18	DATE 4/30/18	DATE	
C	6/29/18	RE-ISSUED FOR REVIEW	KLB	BAF	TRB	H-SCALE N.T.S.	SIZE ANSI B	FIELD BOOK & PAGES		
B	5/18/18	RE-ISSUED FOR REVIEW	KLB	BAF	TRB	V-SCALE N.T.S.	V.S.	R.E.DWG. 291684-T0001-SH1		
A	4/30/18	ISSUED FOR REVIEW	JJD	BAF	TRB	R.E. PROJ. NUMBER 291684		DWG NO. 291684-T0001-SH1		
NO.	DATE	AS BUILT REVISIONS	BY	CHK	APP	APP				

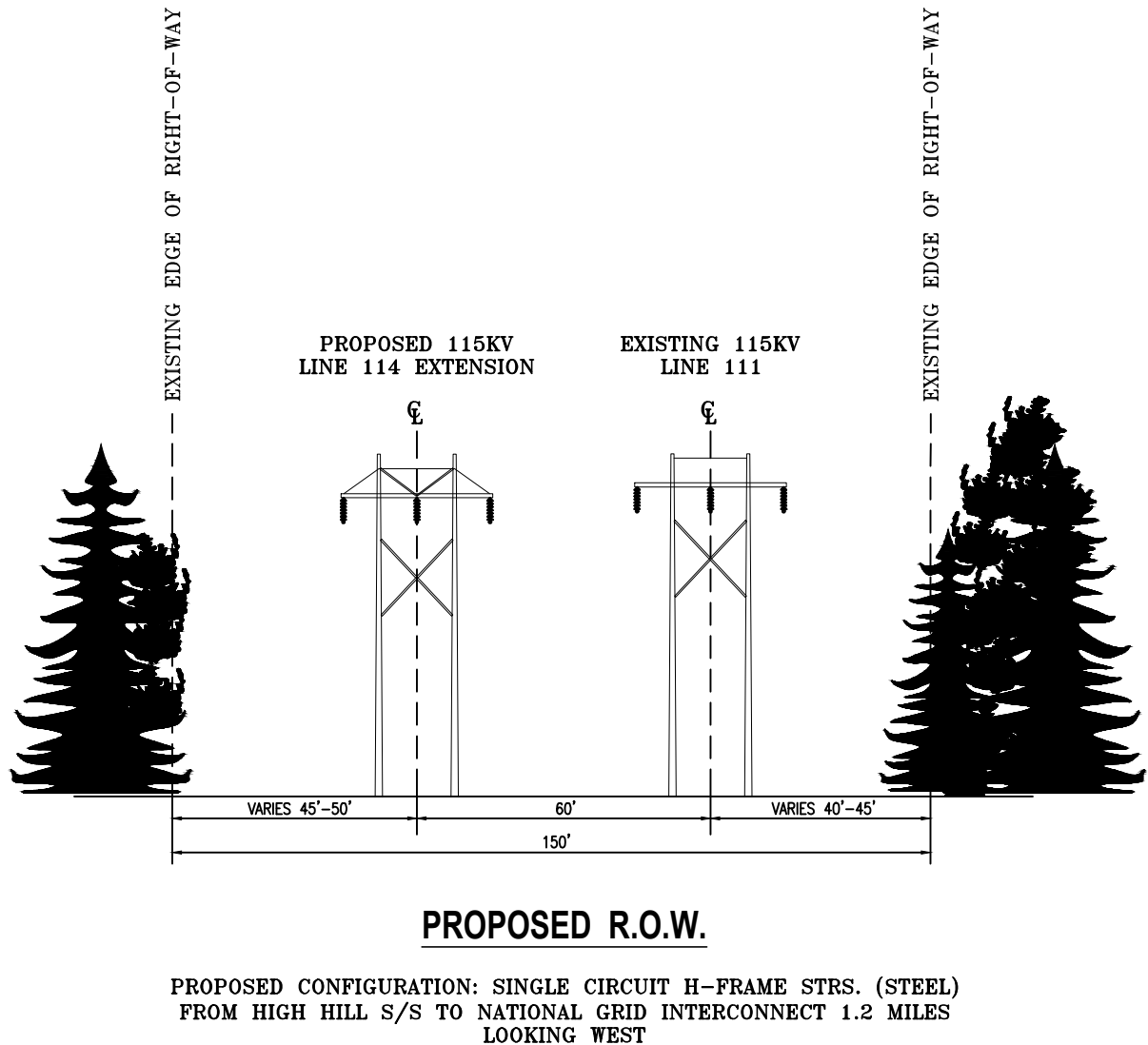
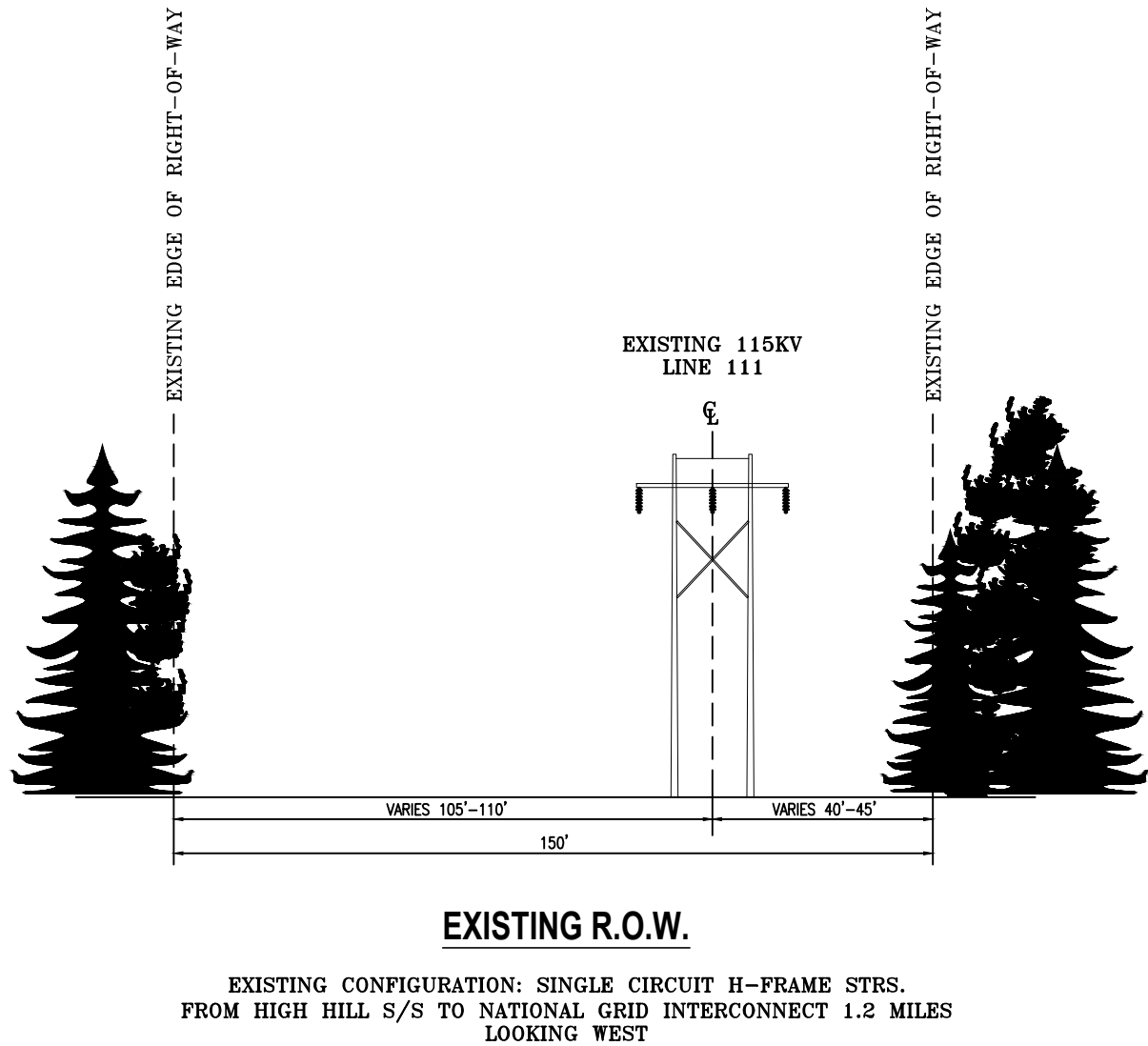


Figure 2-6: Typical ROW Cross- Section Drawings
Sheet 2 of 7

																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

								EVERSOURCE ENERGY						
								TITLE LINE 114 EXTENSION LINE 114 TAP TO NATIONAL GRID INTERCONNECTION TYPICAL ROW CROSS SECTION NEW BEDFORD/DARTMOUTH, MASS						
D	11/8/18	RE-ISSUED FOR REVIEW	GEO	PRG	TRB			BY	JJD/TRC	CHKD	BAF/TRC	APP	TRB/TRC	APP
C	6/29/18	RE-ISSUED FOR REVIEW	KLB	BAF	TRB			DATE	4/30/18	DATE	4/30/18	DATE	4/30/18	DATE
B	5/18/18	RE-ISSUED FOR REVIEW	KLB	BAF	TRB			H-SCALE	N.T.S.	SIZE	ANSI B	FIELD BOOK & PAGES		
A	4/30/18	ISSUED FOR REVIEW	JJD	BAF	TRB			V-SCALE	N.T.S.	V.S.		R.E.DWG.	291684-T0001-SH5	
NO.	DATE	AS BUILT REVISIONS	BY	CHK	APP	APP		R.E. PROJ. NUMBER				291684	DWG NO.	291684-T0001-SH5

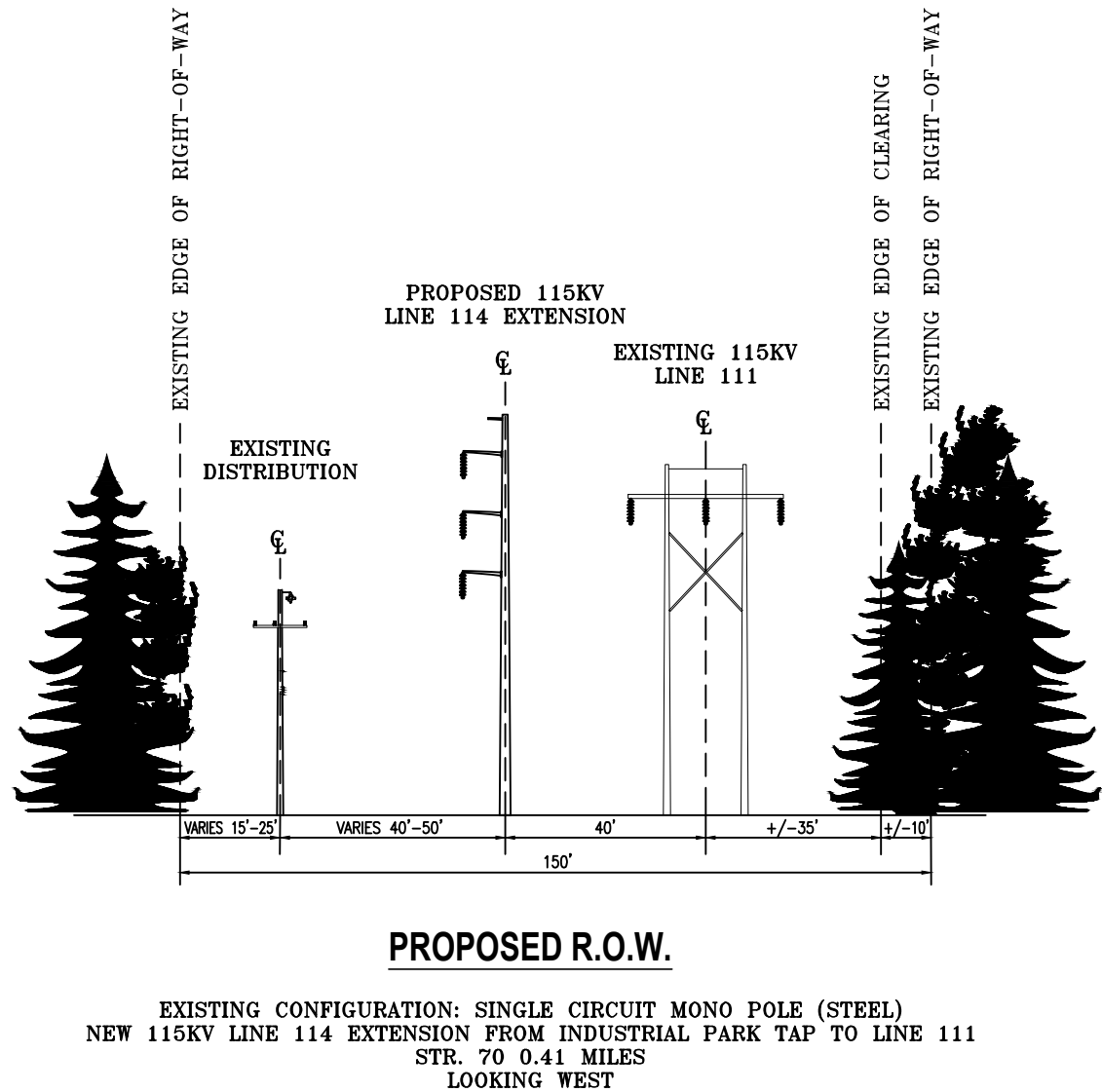
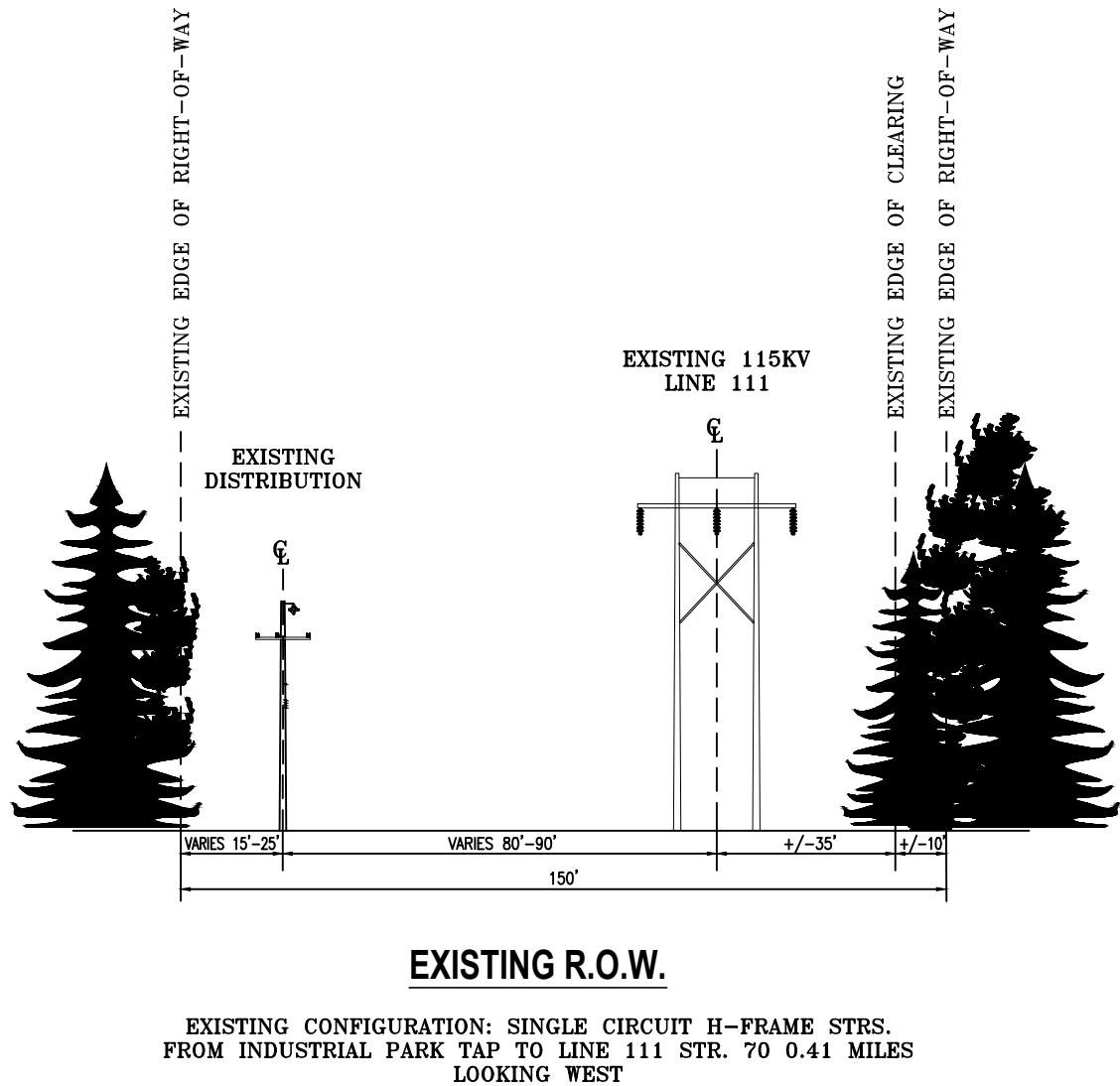


Figure 2-6: Typical ROW Cross- Section Drawings
Sheet 4 of 7

								EVERSOURCE ENERGY			
								TITLE LINE 114 EXTENSION LINE 114 TAP TO NATIONAL GRID INTERCONNECTION TYPICAL ROW CROSS SECTION ACUSHNET/NEW BEDFORD, MASS			
BY		JJD/TRC	CHKD	BAF/TRC	APP	TRB/TRC	APP				
DATE		4/30/18	DATE		4/30/18	DATE		4/30/18	DATE		
H-SCALE		N.T.S.	V-SCALE		N.T.S.	SIZE		ANSI B	FIELD BOOK & PAGES		
A		4/30/18	ISSUED FOR REVIEW		JJD	BAF	TRB	R.E.DWG.		291684-T0001-SH4	
NO.		DATE	AS BUILT REVISIONS		BY	CHK	APP	APP	R.E. PROJ. NUMBER		291684
									DWG NO.		291684-T0001-SH4

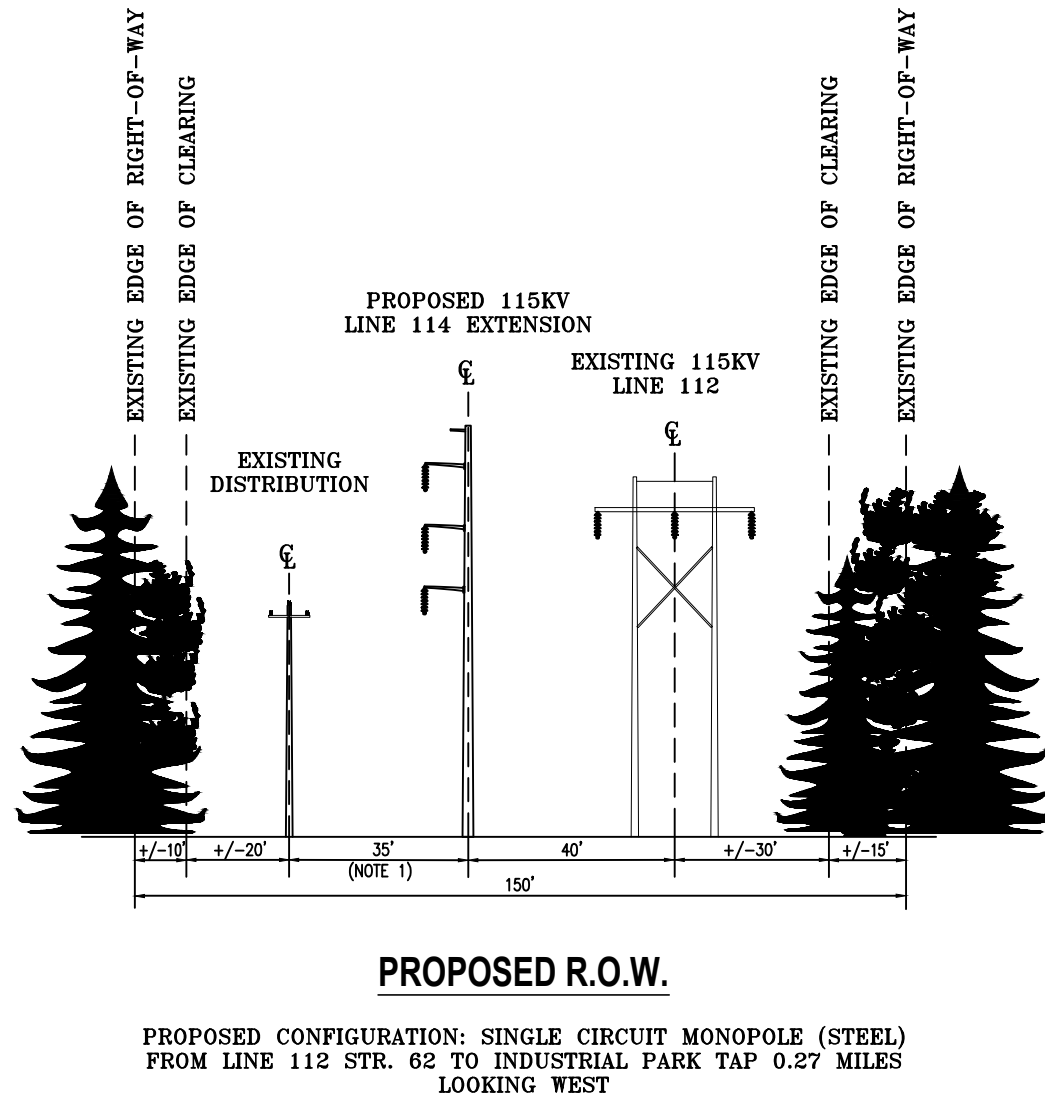
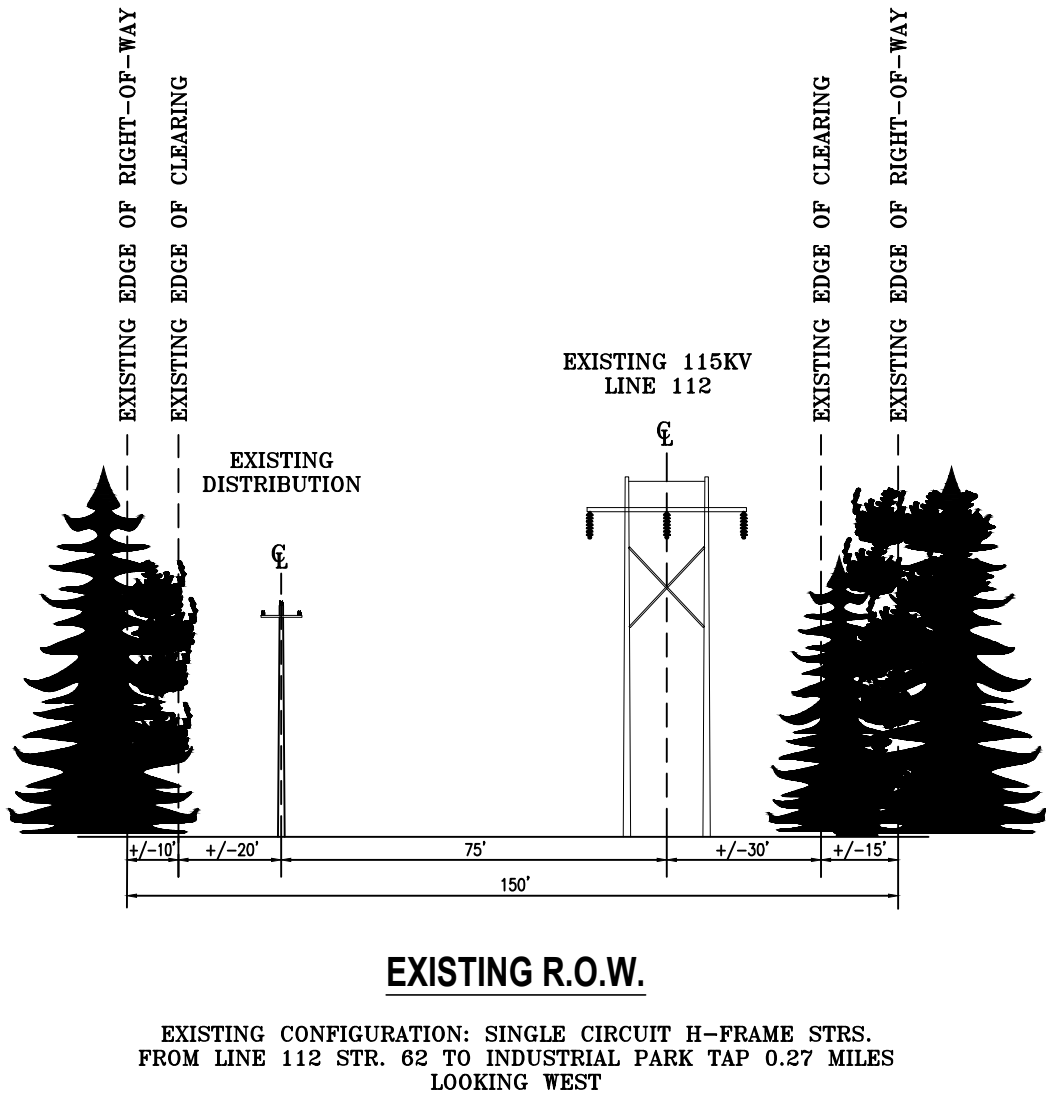
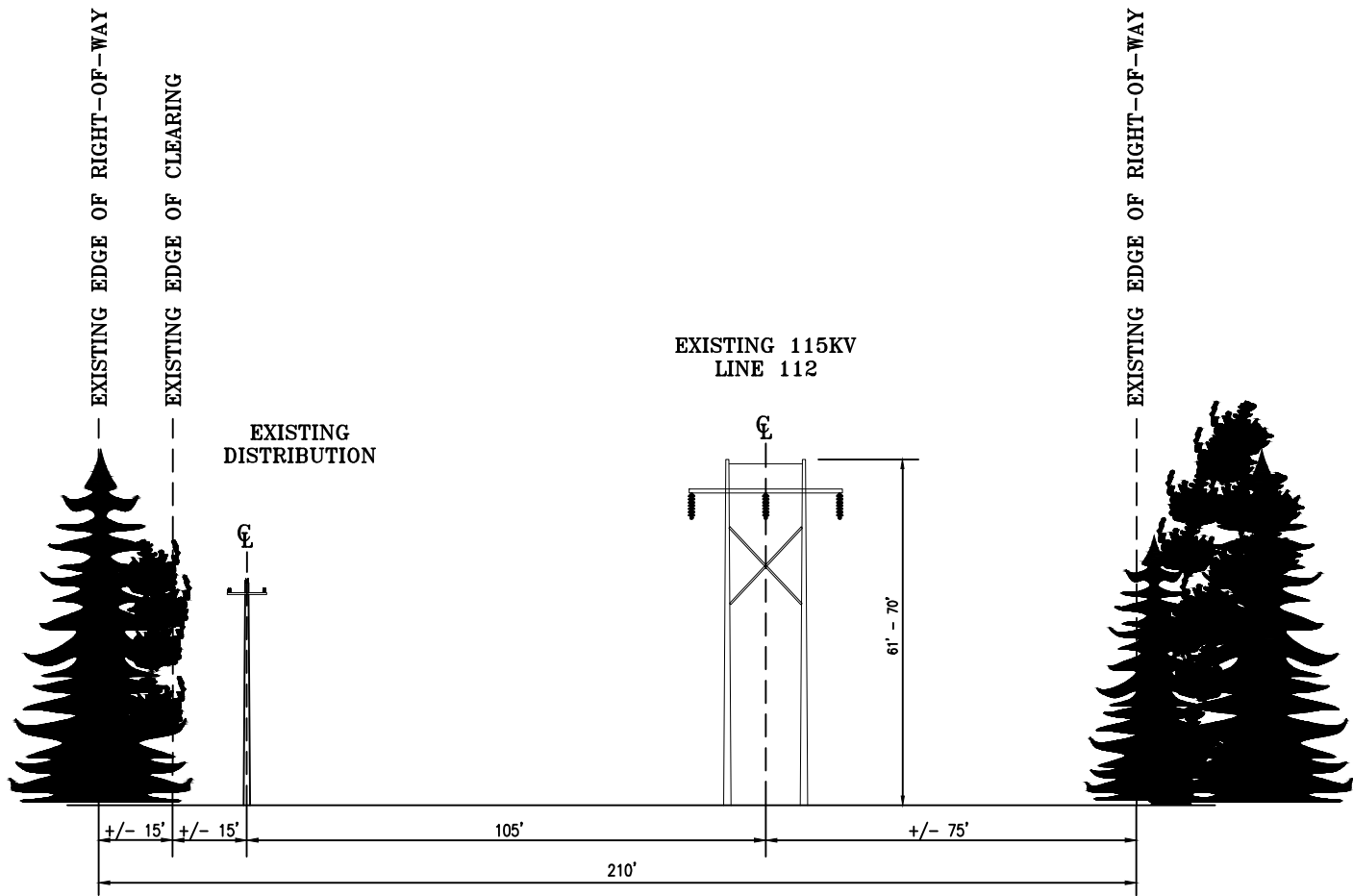


Figure 2-6: Typical ROW Cross- Section Drawings
Sheet 5 of 7

NOTE 1: NON-STANDARD ROW SPACING.

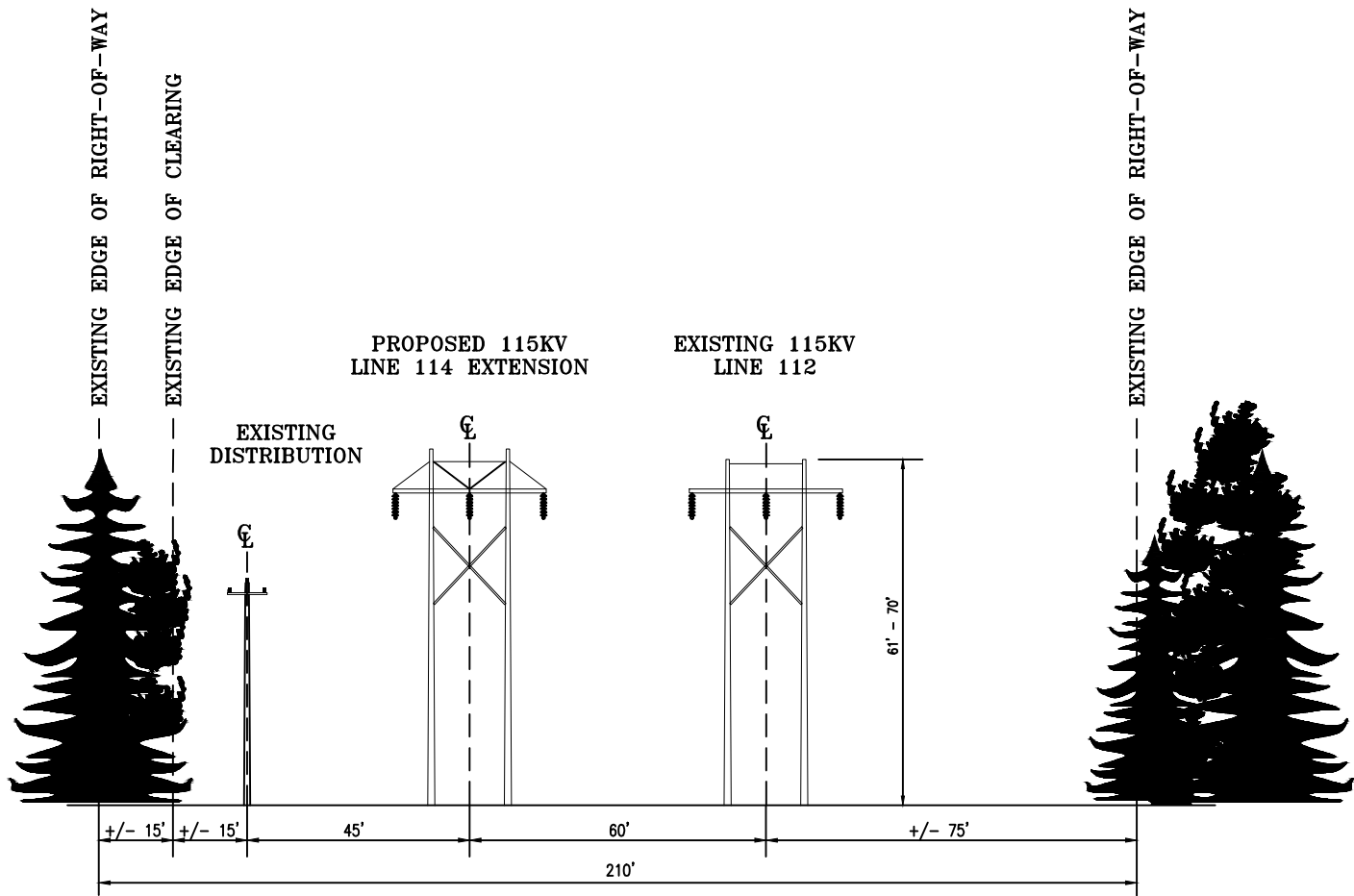
						EVERSOURCE ENERGY			
						TITLE LINE 114 EXTENSION LINE 114 TAP TO NATIONAL GRID INTERCONNECTION TYPICAL ROW CROSS SECTION ACUSHNET/NEW BEDFORD, MASS			
C	6/29/18	RE-ISSUED FOR REVIEW	KL	BA	TR	BY JJD/TRC	CHKD BAF/TRC	APP TRB/TRC	APP
B	5/18/18	RE-ISSUED FOR REVIEW	KL	BA	TR	DATE 4/30/18	DATE 4/30/18	DATE 4/30/18	DATE
A	4/30/18	ISSUED FOR REVIEW	JJD	BAF	TRB	H-SCALE N.T.S.	SIZE ANSI B	FIELD BOOK & PAGES	
						V-SCALE N.T.S.	V.S.	R.E.DWG. 291684-T0001-SH3	
NO.	DATE	AS BUILT REVISIONS	BY	CHK	APP	R.E. PROJ. NUMBER 291684	DWG NO. 291684-T0001-SH3		

6/28/2018 3:24 PM - TBrunner - C:\pwworkingemp\pw1\trunner\d2437592\291684-T0001.dwg - SH.2 ES VER: 05/2015



EXISTING R.O.W.

EXISTING CONFIGURATION: SINGLE CIRCUIT H-FRAME STRUCTURES (WOOD)
FROM TAP TO LINE 112 STR. 62 4.0 MILES
LOOKING NORTH WEST



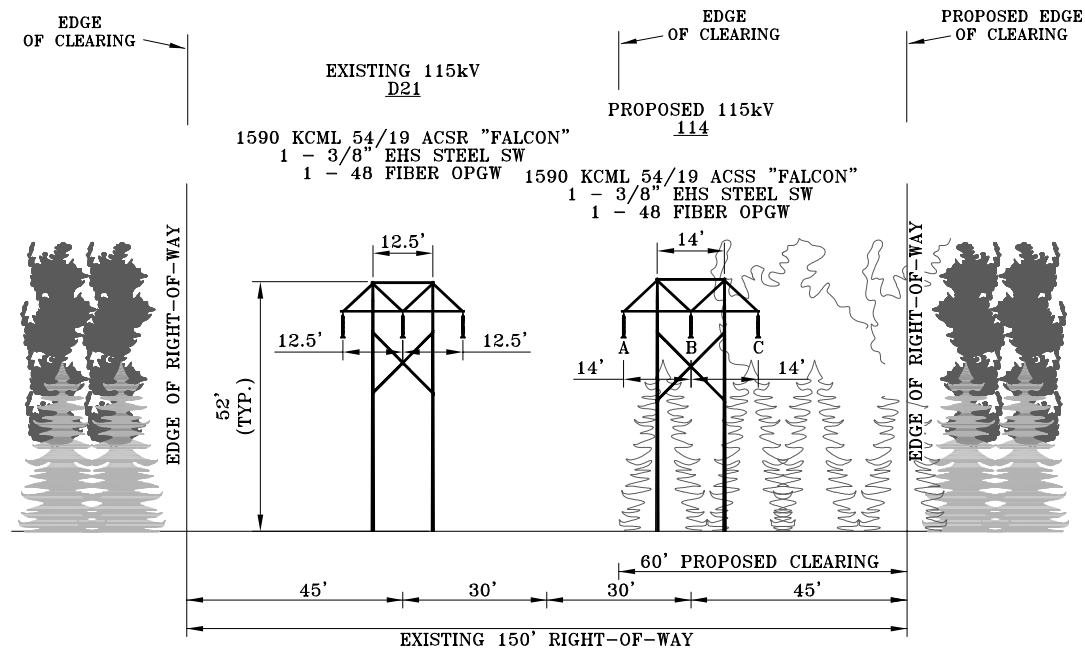
PROPOSED R.O.W.

PROPOSED CONFIGURATION: SINGLE CIRCUIT H-FRAME (STEEL)
NEW 115KV LINE 114 EXTENSION FROM TAP TO LINE 112 STR. 62
4.0 MILES LOOKING NORTH WEST

Figure 2-6: Typical ROW Cross- Section Drawings
Sheet 6 of 7

																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						</
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

- CONCEPTUAL -
FOR REFERENCE ONLY



TYPICAL PROPOSED RIGHT-OF-WAY CROSS SECTION
BELL ROCK SUBSTATION TO THE DARTMOUTH TOWN LINE
APPROXIMATELY 4.2 MILES
FALL RIVER, MA

**Figure 2-6: Typical ROW Cross- Section
Drawings**
Sheet 7 of 7

nationalgrid

114 115kV NEW LINE
BELL ROCK TO DARTMOUTH TOWN LINE
MILE 0.0 TO 4.2
CROSS SECTION #1 OF 1

SCALE: NONE REV: C

DATE: 11/08/18



Legend

	Utility Structure		Edge of ROW		Observed Inundation
	NEP Substation Easement		Local Road		Wetland Border
	Existing Transmission Line		Field Documented Vernal Pool		Field Delineated Wetland *
	Other Transmission Line		Culvert		MA-NHESP Priority Habitats Rare Species (All of view extent)
	Alternative #1 (Preferred Layout)		Wetland Flag		
	Parcel Boundary		100 ft Buffer Wetland		



1 inch = 60 feet



0 30 60
Feet

*** Indicates Layer Set to Transparency**

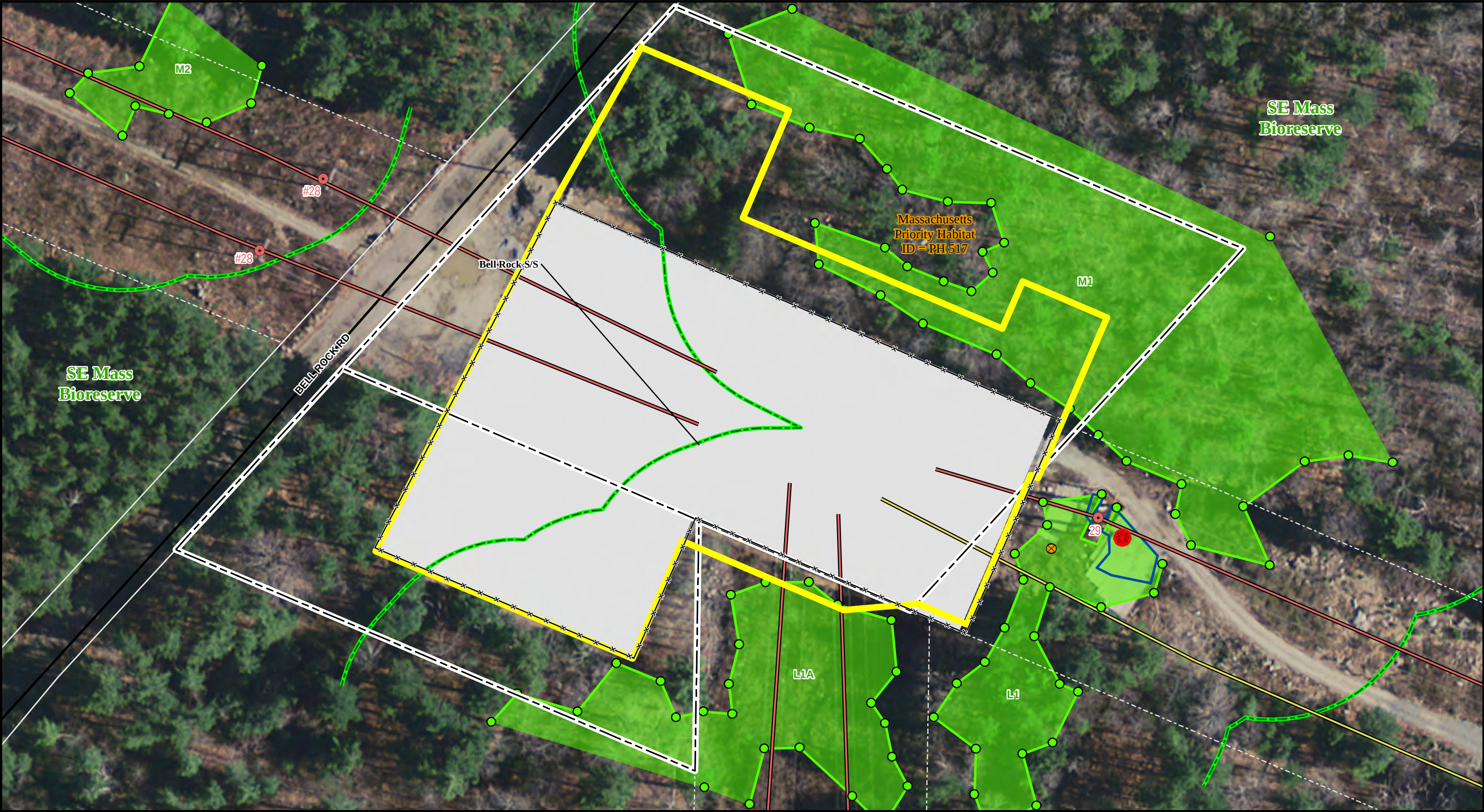
BELL ROCK SUBSTATION REBUILD PROJECT

Figure 3-1: Alternative #1 for Bell Rock

Commonwealth of Massachusetts
City of Fall River

**NOT FOR
CONSTRUCTION**

Imagery Source: National
Map Server 2013-2015
High Resolution Orthoimagery



Legend

- Utility Structure
- NEP Substation Easement
- Existing Transmission Line
- Other Transmission Line
- Alternative #2 (Alternate Layout)
- Parcel Boundary

- Edge of ROW
- Local Road
- Field Documented Vernal Pool
- Culvert
- Wetland Flag
- 100 ft Buffer Wetland

- Observed Inundation
- Wetland Border
- Field Delineated Wetland *
- MA-NHESP Priority Habitats Rare Species (All of view extent)

N

1 inch = 60 feet

0 30 60

Feet

* Indicates Layer Set to Transparency

BELL ROCK SUBSTATION REBUILD PROJECT

Figure 3-2: Alternative #2 for Bell Rock

Commonwealth of Massachusetts
City of Fall River

NOT FOR CONSTRUCTION

Imagery Source: National Map Server 2013-2015 High Resolution Orthoimagery

nationalgrid **POWER ENGINEERS**



Legend

 Utility Structure	 Edge of ROW	 Observed Inundation
 NEP Substation Easement	 Local Road	 Wetland Border
 Existing Transmission Line	 Field Documented Vernal Pool	 Field Delineated Wetland *
 Other Transmission Line	 Culvert	 MA-NHESP Priority Habitats Rare Species (All of view extent)
 Alternative #3 (Alternate Layout)	 Wetland Flag	
 Parcel Boundary	 100 ft Buffer Wetland	


 1 inch = 60 feet

 Feet
*** Indicates Layer Set to Transparency**

BELL ROCK SUBSTATION REBUILD PROJECT

Figure 3-3: Alternative #3 for Bell Rock

Commonwealth of Massachusetts
City of Fall River

**NOT FOR
CONSTRUCTION**

Imagery Source: National
Map Server 2013-2015
High Resolution Orthoimagery

