

Plan Set

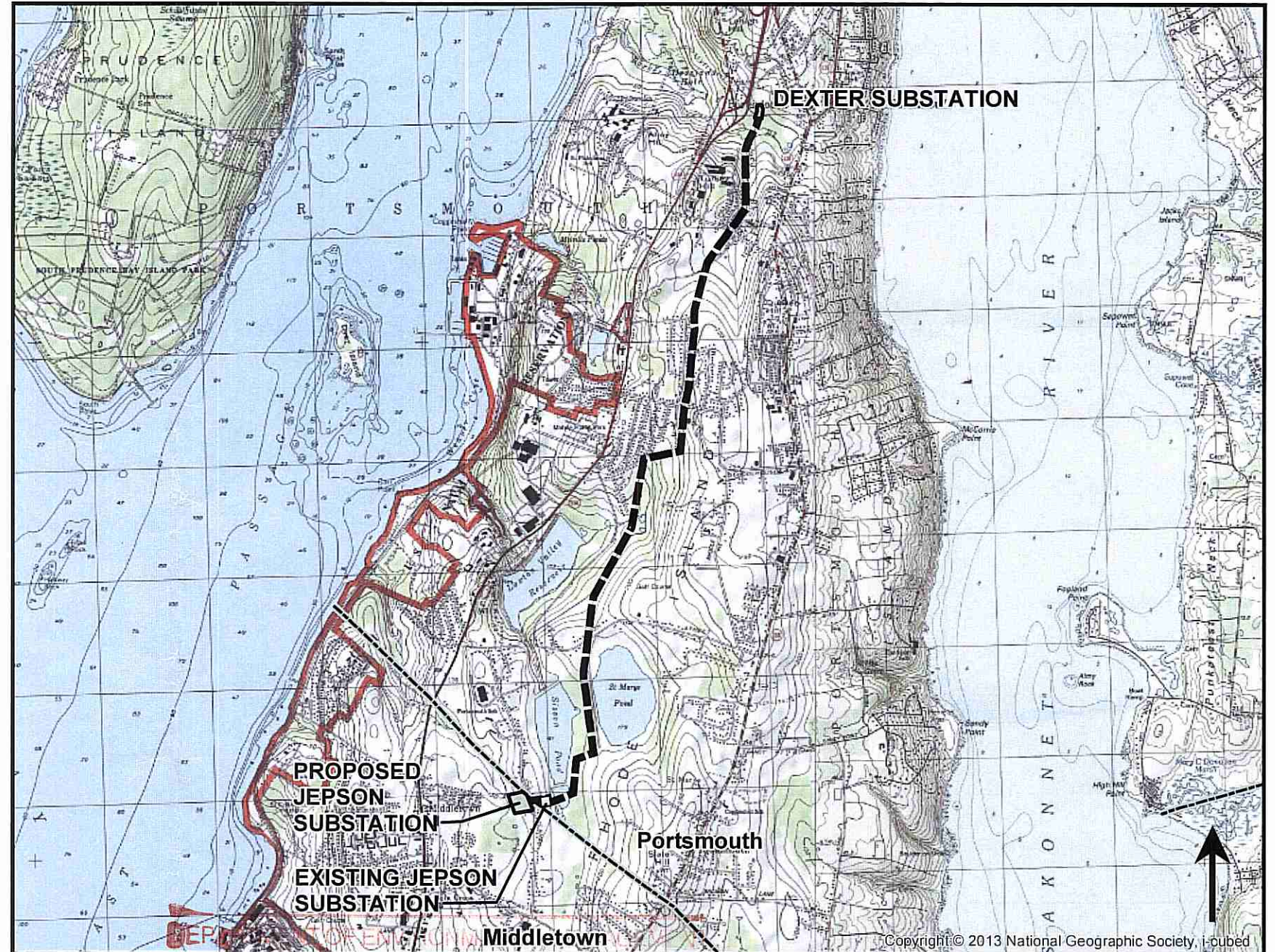
Issued for: RIDEM Request for Preliminary Determination
 Date Issued: January 15, 2018
 Latest Issue: October 9, 2018

Aquidneck Island Reliability Project - Volume 1 (Proposed Additional Temporary Access)

Dexter Substation, 182 Freeborn Street, Portsmouth to
 Proposed Jepson Substation, Jepson Lane, Middletown, Rhode Island

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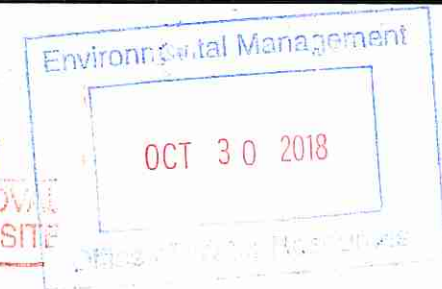


Site Location Map



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 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED **DEC 27 2018** FILE # **18-0289**
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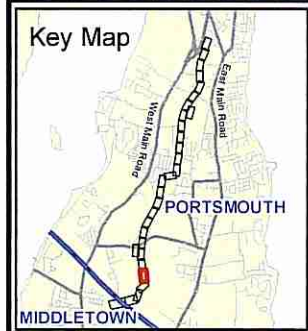
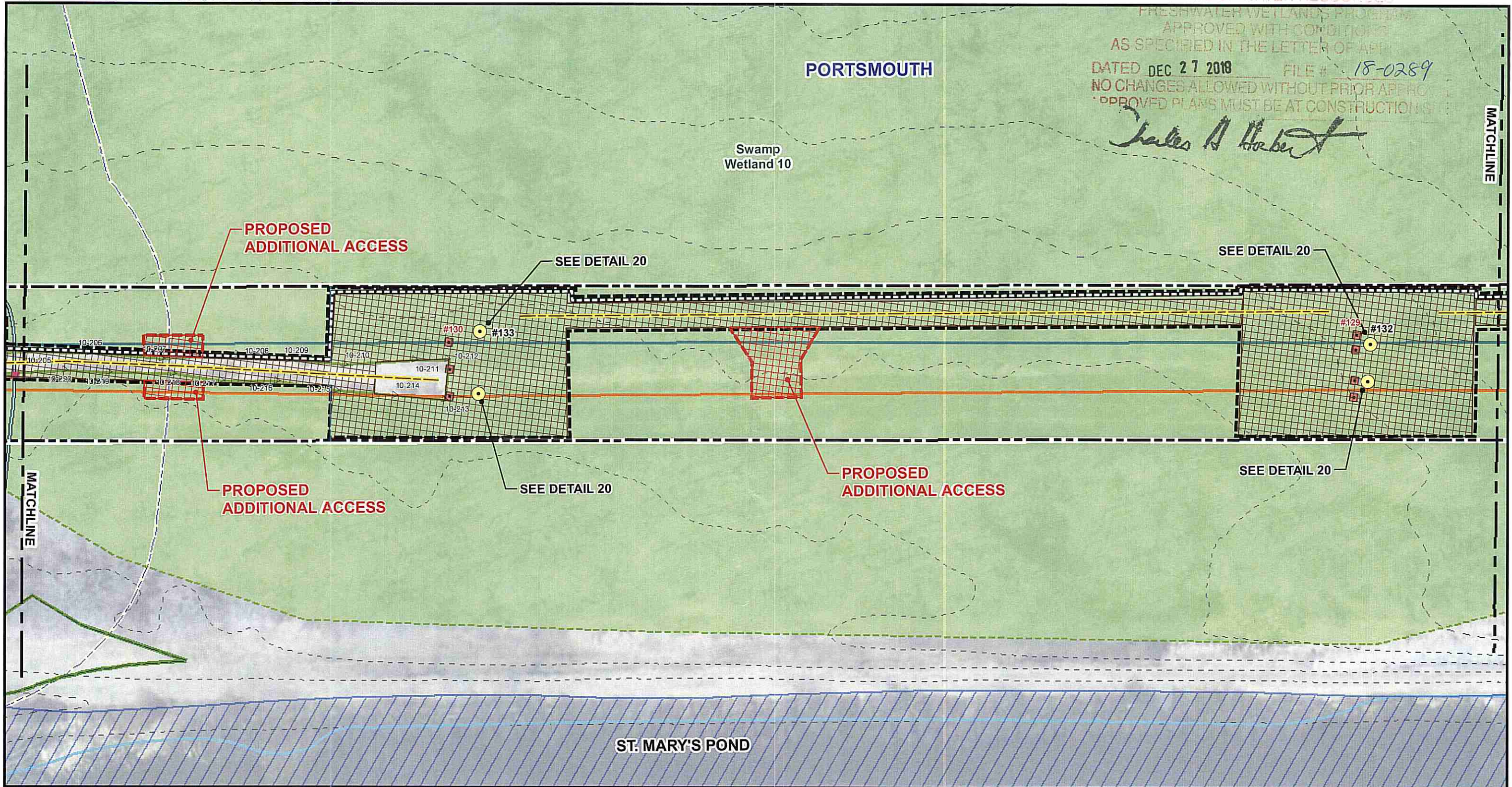
Charles A. Haber



0 2,000 4,000
 Feet
 1 Inch = 4,000 Feet

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#55 (Yellow circle)	Proposed Structure	Access	Proposed Limit of Disturbance (Additional Access)	Wetlands
#55 (Black square)	Structure to be Removed	Limit of Disturbance Approved Under Permit 16-0318	Proposed Additional Swamp Mats	Existing Guy Wire Anchor
#55 (Red square)	Structure to be Replaced	Proposed Swamp Mats	Delineated Wetland Edge	Drop Inlet Catch Basin
#55 (Blue square)	Proposed Temporary Structure	Timber Mat Bridge (Detail 7)	Approximate Wetland Edge	Culvert
#55 (White square)	Existing Structure	Compost Filter Sock (Detail 1)	50' Perimeter Wetland	Gate
--- (Dashed line)	TNEC ROW	Proposed Retaining Wall	Stream	Sleeve in Wire
- - - (Dotted line)	TNEC Easement	Stabilized Construction Exit (Detail 9)	100' Riverbank Wetland	Fence
— (Solid line)	Line 61 (To Be Rebuilt)	Proposed Tree Line	Edge of Open Water	Stonewall
— (Solid line)	Line 62 (To Be Rebuilt)	Flood Zone	ASSF	Existing Tree Line
		1% Annual Chance of Flooding		

AQUIDNECK ISLAND RELIABILITY PROJECT
PORTSMOUTH AND MIDDLETOWN, RHODE ISLAND

Volume 1
 61/62 Transmission Lines Site Plans
 Sheet 8 of 47

nationalgrid

0 30 60
 Feet

vhb

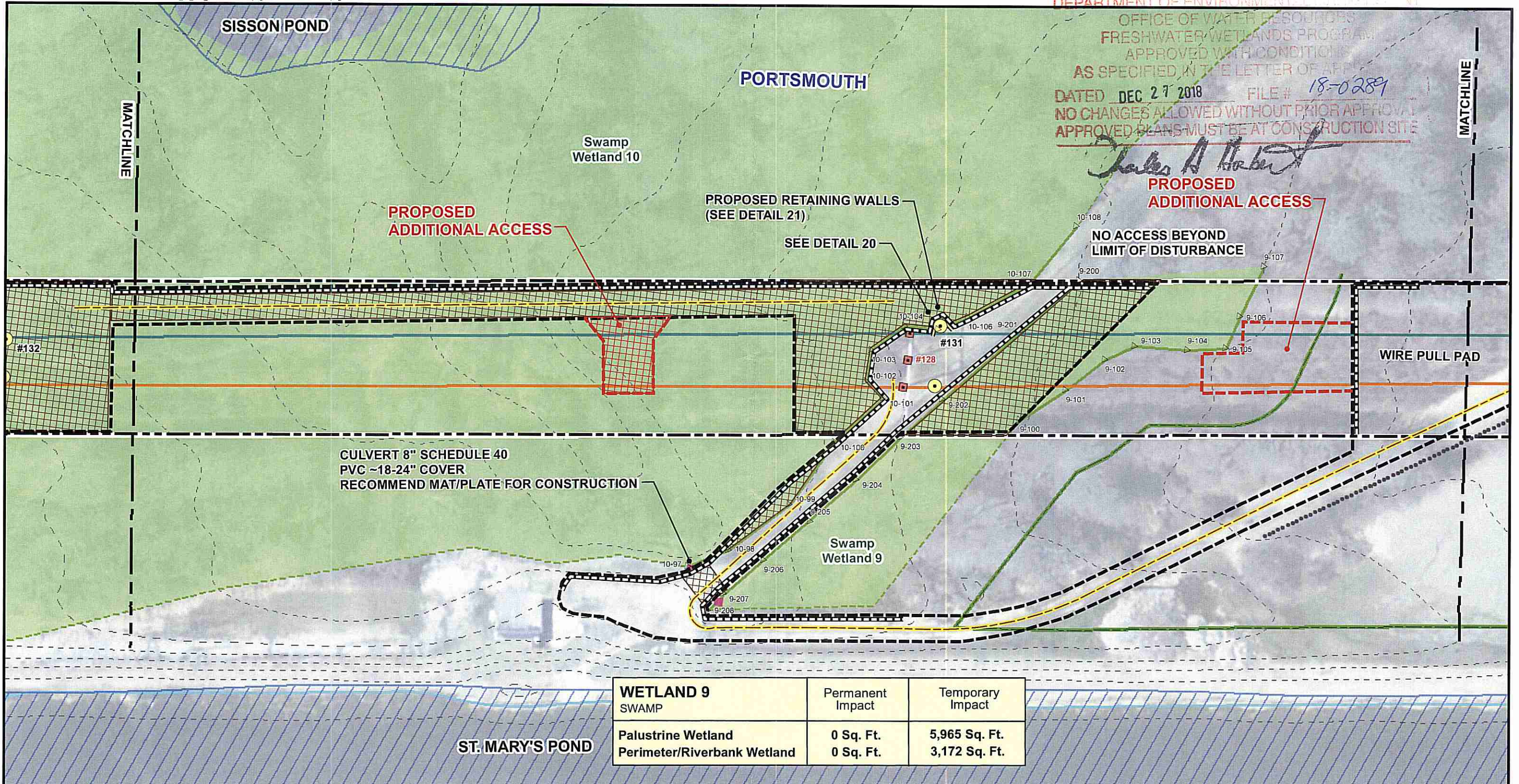
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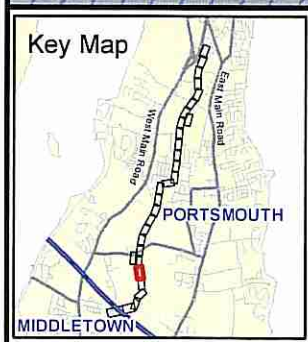
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James A. Haber
**PROPOSED
ADDITIONAL ACCESS**



WETLAND 9 SWAMP	Permanent Impact	Temporary Impact
Palustrine Wetland	0 Sq. Ft.	5,965 Sq. Ft.
Perimeter/Riverbank Wetland	0 Sq. Ft.	3,172 Sq. Ft.



<p>#55 Proposed Structure</p> <p>#55 Structure to be Removed</p> <p>#55 Structure to be Replaced</p> <p>#55 Proposed Temporary Structure</p> <p>#55 Existing Structure</p> <p> TNEC ROW</p> <p> TNEC Easement</p> <p> Line 61 (To Be Rebuilt)</p> <p> Line 62 (To Be Rebuilt)</p>	<p> Access</p> <p> Limit of Disturbance Approved Under Permit 16-0318</p> <p> Proposed Swamp Mats</p> <p> Timber Mat Bridge (Detail 7)</p> <p> Compost Filter Sock (Detail 1)</p> <p> Proposed Retaining Wall</p> <p> Stabilized Construction Exit (Detail 9)</p> <p> Proposed Tree Line</p> <p> Flood Zone 1% Annual Chance of Flooding</p>	<p> Proposed Limit of Disturbance (Additional Access)</p> <p> Proposed Additional Swamp Mats</p> <p> Delineated Wetland Edge</p> <p> Approximate Wetland Edge</p> <p> 50' Perimeter Wetland</p> <p> Stream</p> <p> 100' Riverbank Wetland</p> <p> Edge of Open Water</p> <p> ASSF</p>	<p> Wetlands</p> <p> Existing Guy Wire Anchor</p> <p> Drop Inlet Catch Basin</p> <p> Culvert</p> <p> Gate</p> <p> Sleeve in Wire</p> <p> Fence</p> <p> Stonewall</p> <p> Existing Tree Line</p>
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**AQUIDNECK ISLAND RELIABILITY PROJECT
PORTSMOUTH AND MIDDLETOWN, RHODE ISLAND**

**Volume 1
61/62 Transmission Lines Site Plans
Sheet 9 of 47**

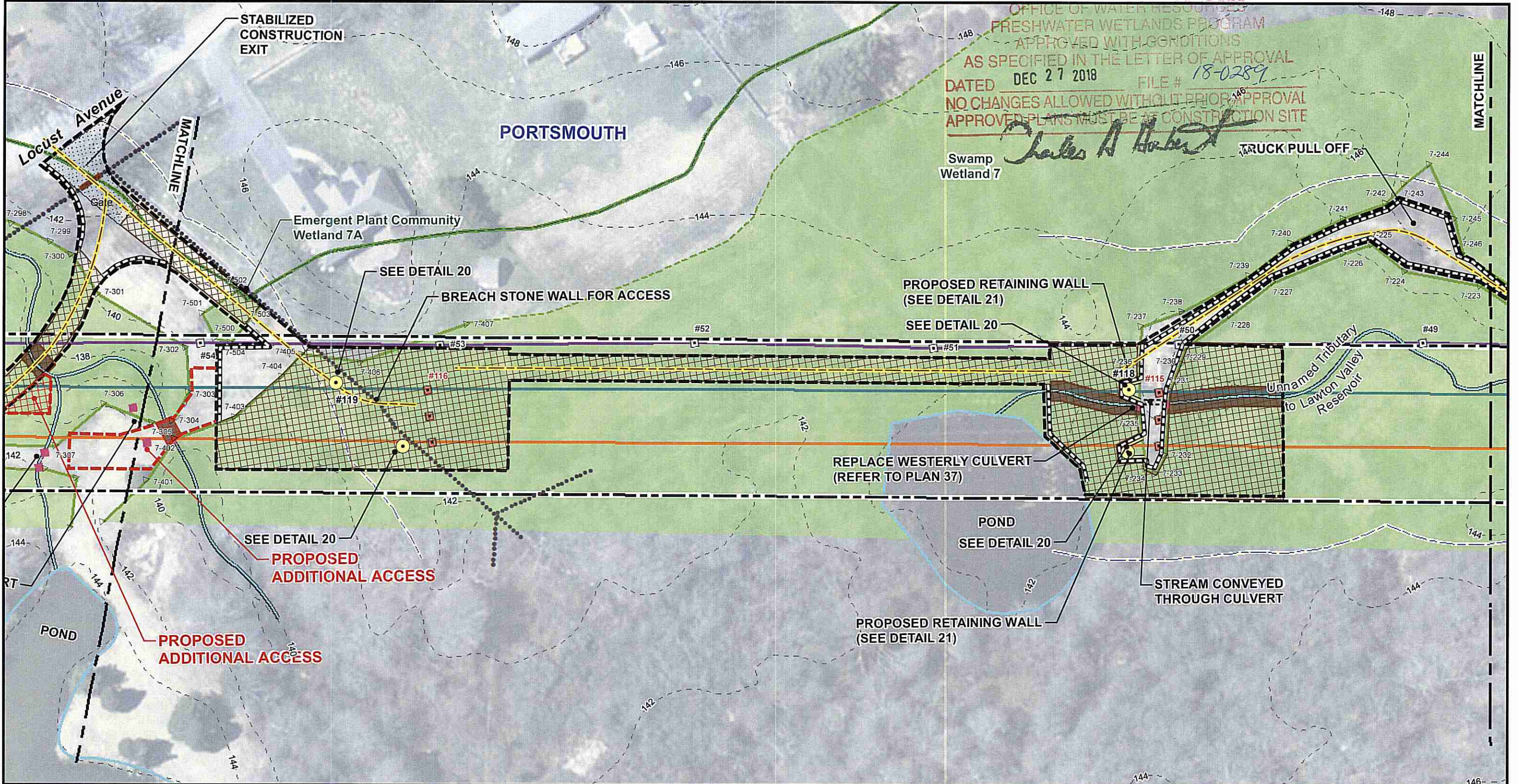
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Charles A. Haber



#55 (Yellow circle)	Proposed Structure	--- (Yellow dashed)	Access	--- (Red dashed)	Proposed Limit of Disturbance (Additional Access)	--- (Green dashed)	Delineated Wetland Edge	--- (Green dashed)	Approximate Wetland Edge	--- (Blue dashed)	Stream	--- (Blue dashed)	100' Riverbank Wetland	--- (Blue dashed)	Edge of Open Water	--- (Blue dashed)	ASSF	--- (Blue dashed)	Wetlands	○ (Black)	Existing Guy Wire Anchor	⊕ (Black)	Drop Inlet Catch Basin	■ (Red)	Culvert	⊙ (Black)	Gate	⊗ (Black)	Sleeve in Wire	⊗ (Black)	Fence	●●●●●● (Black)	Stonewall	⋯ (Black)	Existing Tree Line		
#55 (Black square)	Structure to be Removed	--- (Black dashed)	Limit of Disturbance Approved Under Permit 16-0318	--- (Red dashed)	Proposed Additional Swamp Mats	--- (Green dashed)	50' Perimeter Wetland	--- (Green dashed)	50' Perimeter Wetland	--- (Blue dashed)	Stream	--- (Blue dashed)	100' Riverbank Wetland	--- (Blue dashed)	Edge of Open Water	--- (Blue dashed)	ASSF	--- (Blue dashed)	Wetlands	○ (Black)	Existing Guy Wire Anchor	⊕ (Black)	Drop Inlet Catch Basin	■ (Red)	Culvert	⊙ (Black)	Gate	⊗ (Black)	Sleeve in Wire	⊗ (Black)	Fence	●●●●●● (Black)	Stonewall	⋯ (Black)	Existing Tree Line		
#55 (Red square)	Structure to be Replaced	--- (Black dashed)	Proposed Swamp Mats	--- (Red dashed)	Proposed Additional Swamp Mats	--- (Green dashed)	50' Perimeter Wetland	--- (Green dashed)	50' Perimeter Wetland	--- (Blue dashed)	Stream	--- (Blue dashed)	100' Riverbank Wetland	--- (Blue dashed)	Edge of Open Water	--- (Blue dashed)	ASSF	--- (Blue dashed)	Wetlands	○ (Black)	Existing Guy Wire Anchor	⊕ (Black)	Drop Inlet Catch Basin	■ (Red)	Culvert	⊙ (Black)	Gate	⊗ (Black)	Sleeve in Wire	⊗ (Black)	Fence	●●●●●● (Black)	Stonewall	⋯ (Black)	Existing Tree Line		
#55 (Black square)	Proposed Temporary Structure	--- (Black dashed)	Timber Mat Bridge (Detail 7)	--- (Red dashed)	Proposed Additional Swamp Mats	--- (Green dashed)	50' Perimeter Wetland	--- (Green dashed)	50' Perimeter Wetland	--- (Blue dashed)	Stream	--- (Blue dashed)	100' Riverbank Wetland	--- (Blue dashed)	Edge of Open Water	--- (Blue dashed)	ASSF	--- (Blue dashed)	Wetlands	○ (Black)	Existing Guy Wire Anchor	⊕ (Black)	Drop Inlet Catch Basin	■ (Red)	Culvert	⊙ (Black)	Gate	⊗ (Black)	Sleeve in Wire	⊗ (Black)	Fence	●●●●●● (Black)	Stonewall	⋯ (Black)	Existing Tree Line		
#55 (Black square)	Existing Structure	--- (Black dashed)	Compost Filter Sock (Detail 1)	--- (Red dashed)	Proposed Additional Swamp Mats	--- (Green dashed)	50' Perimeter Wetland	--- (Green dashed)	50' Perimeter Wetland	--- (Blue dashed)	Stream	--- (Blue dashed)	100' Riverbank Wetland	--- (Blue dashed)	Edge of Open Water	--- (Blue dashed)	ASSF	--- (Blue dashed)	Wetlands	○ (Black)	Existing Guy Wire Anchor	⊕ (Black)	Drop Inlet Catch Basin	■ (Red)	Culvert	⊙ (Black)	Gate	⊗ (Black)	Sleeve in Wire	⊗ (Black)	Fence	●●●●●● (Black)	Stonewall	⋯ (Black)	Existing Tree Line		
---	TNEC ROW	---	Proposed Retaining Wall	---	Proposed Additional Swamp Mats	---	50' Perimeter Wetland	---	50' Perimeter Wetland	---	Stream	---	100' Riverbank Wetland	---	Edge of Open Water	---	ASSF	---	Wetlands	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
---	TNEC Easement	---	Stabilized Construction Exit (Detail 9)	---	Proposed Additional Swamp Mats	---	50' Perimeter Wetland	---	50' Perimeter Wetland	---	Stream	---	100' Riverbank Wetland	---	Edge of Open Water	---	ASSF	---	Wetlands	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
---	Line 51 (To Be Rebuilt)	---	Proposed Tree Line	---	Proposed Additional Swamp Mats	---	50' Perimeter Wetland	---	50' Perimeter Wetland	---	Stream	---	100' Riverbank Wetland	---	Edge of Open Water	---	ASSF	---	Wetlands	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	Line 62 (To Be Rebuilt)	---	Flood Zone	---	Proposed Additional Swamp Mats	---	50' Perimeter Wetland	---	50' Perimeter Wetland	---	Stream	---	100' Riverbank Wetland	---	Edge of Open Water	---	ASSF	---	Wetlands	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	Line 62 (To Be Rebuilt)	---	1% Annual Chance of Flooding	---	Proposed Additional Swamp Mats	---	50' Perimeter Wetland	---	50' Perimeter Wetland	---	Stream	---	100' Riverbank Wetland	---	Edge of Open Water	---	ASSF	---	Wetlands	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

AQUIDNECK ISLAND RELIABILITY PROJECT
PORTSMOUTH AND MIDDLETOWN, RHODE ISLAND

Volume 1
 61/62 Transmission Lines Site Plans
 Sheet 17 of 47

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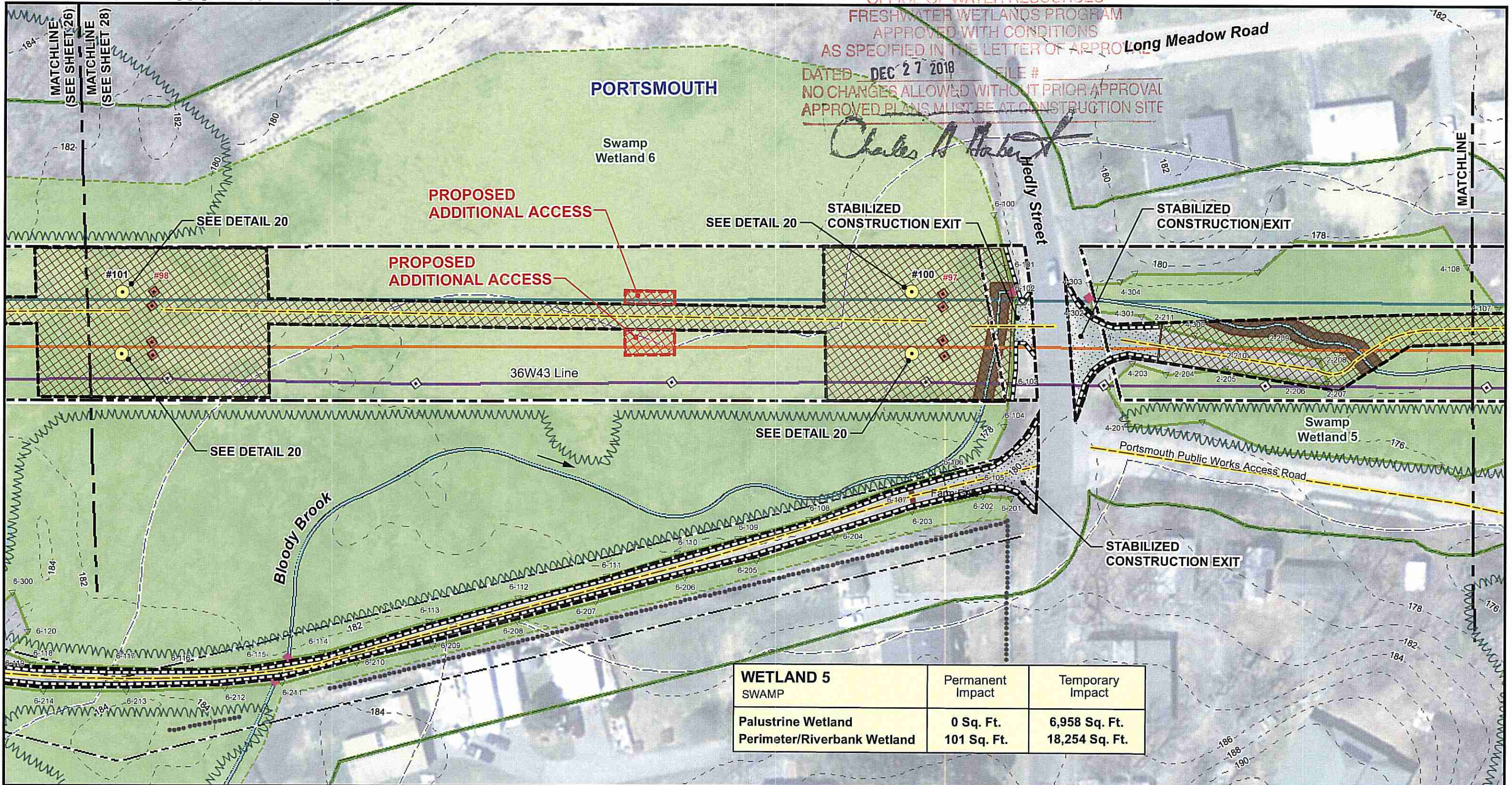
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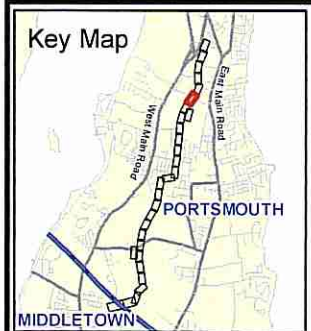
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Charles A. Haber



WETLAND 5 SWAMP	Permanent Impact	Temporary Impact
Palustrine Wetland	0 Sq. Ft.	6,958 Sq. Ft.
Perimeter/Riverbank Wetland	101 Sq. Ft.	18,254 Sq. Ft.



- | | | | |
|---|--|---|---|
| <ul style="list-style-type: none"> #55 (Yellow circle) Proposed Structure #55 (Black square) Structure to be Removed #55 (Red square) Structure to be Replaced #55 (Pink square) Proposed Temporary Structure #55 (White square) Existing Structure --- TNEC ROW - - - TNEC Easement — Line 61 (To Be Rebuilt) — Line 62 (To Be Rebuilt) | <ul style="list-style-type: none"> — Access --- Limit of Disturbance Approved Under Permit 16-0318 --- Proposed Swamp Mats --- Timber Mat Bridge (Detail 7) --- Compost Filter Sock (Detail 1) --- Proposed Retaining Wall --- Stabilized Construction Exit (Detail 9) --- Proposed Tree Line Flood Zone 1% Annual Chance of Flooding | <ul style="list-style-type: none"> --- Proposed Limit of Disturbance (Additional Access) --- Proposed Additional Swamp Mats --- Delineated Wetland Edge --- Approximate Wetland Edge --- 50' Perimeter Wetland --- Stream --- 100' Riverbank Wetland --- Edge of Open Water --- ASSF | <ul style="list-style-type: none"> ○ Wetlands ○ Existing Guy Wire Anchor ⊕ Drop Inlet Catch Basin ■ Culvert ■ Gate ○ Sleeve in Wire × - × - Fence ● Stonewall --- Existing Tree Line |
|---|--|---|---|

AQUIDNECK ISLAND RELIABILITY PROJECT
PORTSMOUTH AND MIDDLETOWN, RHODE ISLAND

Volume 1
61/62 Transmission Lines Site Plans
Sheet 28 of 47

nationalgrid

0 30 60
Feet

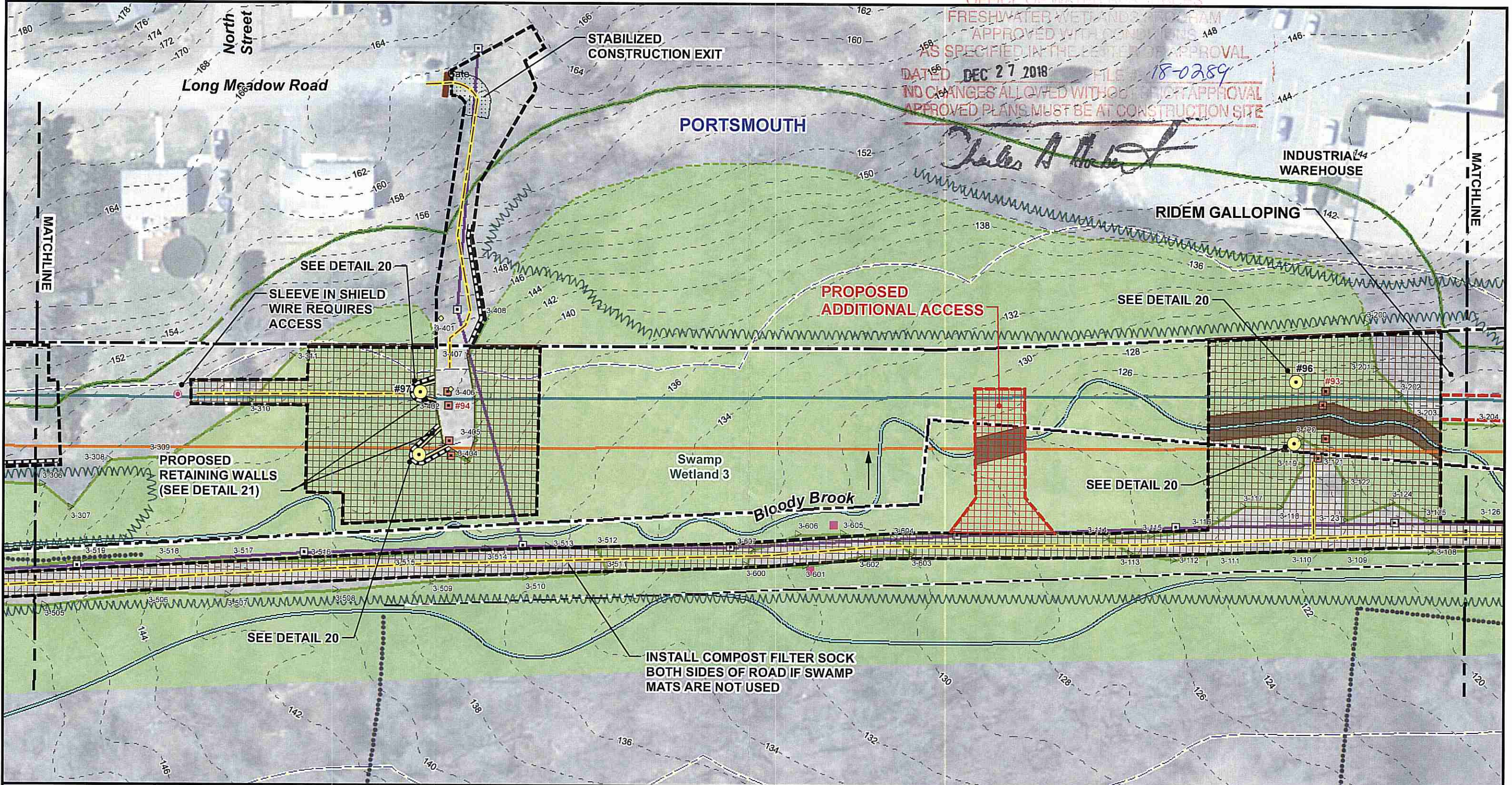
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FRESHWATER WETLAND PROGRAM
APPROVED WITH CONDITIONS
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DATED DEC 27 2018 FILE # 18-0289
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

James A. Hester



#55	Proposed Structure		Access		Proposed Limit of Disturbance (Additional Access)		Wetlands
#55	Structure to be Removed		Limit of Disturbance Approved Under Permit 16-0318		Proposed Additional Swamp Mats		Existing Guy Wire Anchor
#55	Structure to be Replaced		Proposed Swamp Mats		Delineated Wetland Edge		Drop Inlet Catch Basin
#55	Proposed Temporary Structure		Timber Mat Bridge (Detail 7)		Approximate Wetland Edge		Culvert
#55	Existing Structure		Compost Filter Sock (Detail 1)		50' Perimeter Wetland		Gate
	TNEC ROW		Proposed Retaining Wall		Stream		Sleeve in Wire
	TNEC Easement		Stabilized Construction Exit (Detail 9)		100' Riverbank Wetland		Fence
	Line 61 (To Be Rebuilt)		Proposed Tree Line		Edge of Open Water		Stonewall
	Line 62 (To Be Rebuilt)		Flood Zone		ASSF		Existing Tree Line
			1% Annual Chance of Flooding				

AQUIDNECK ISLAND RELIABILITY PROJECT
PORTSMOUTH AND MIDDLETOWN, RHODE ISLAND

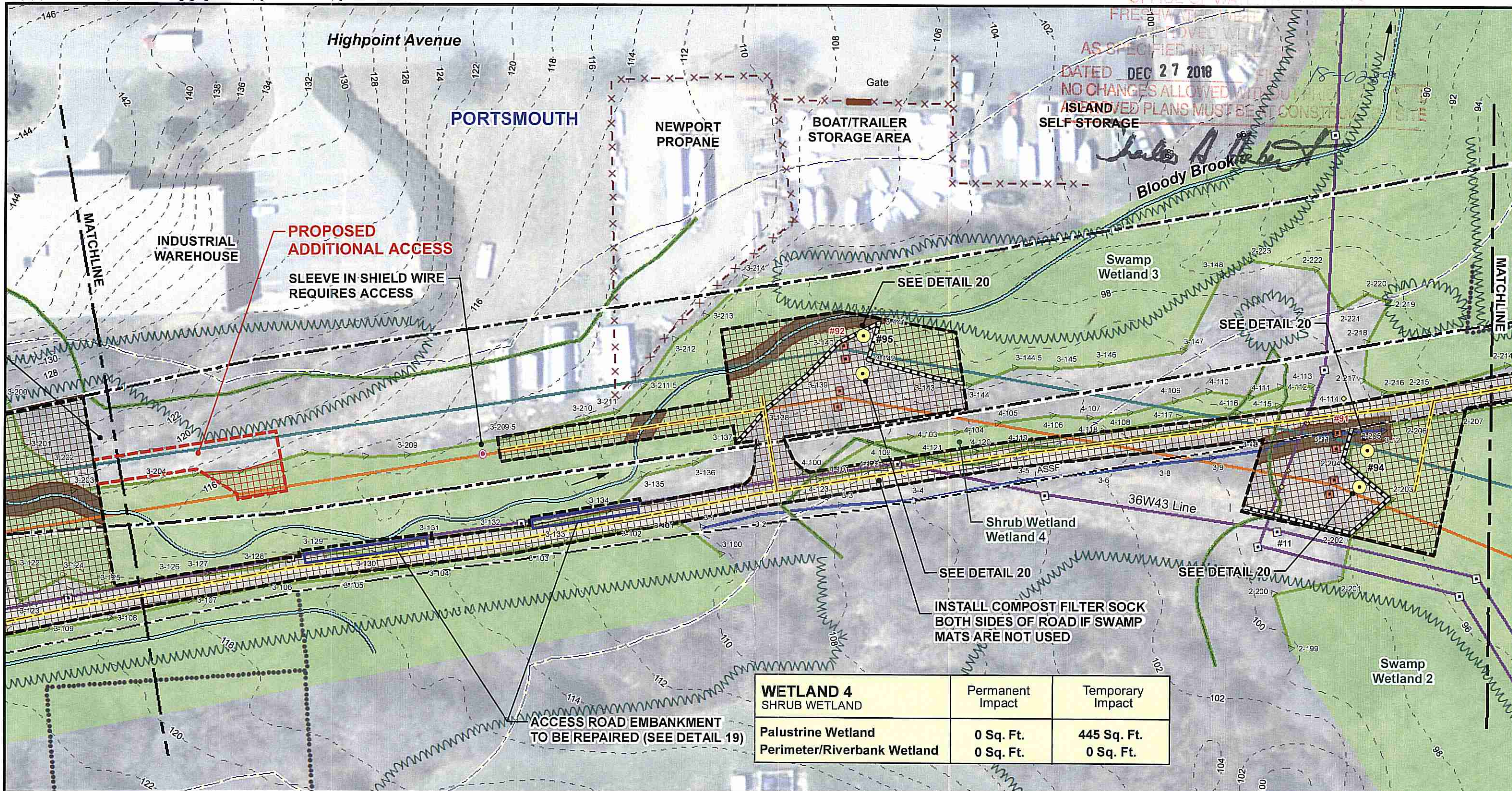
Volume 1
61/62 Transmission Lines Site Plans
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0 30 60
Feet

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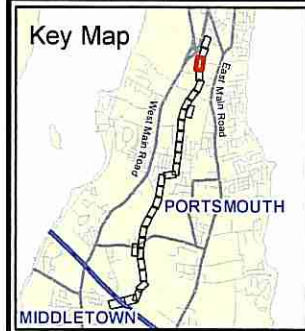
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Sheet 6 of 7



FRESHWATER WETLANDS
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ISLAND/VED PLANS MUST BE IN CONSTRUCTION

John A. [Signature]

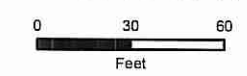


- #55 Proposed Structure
- #55 Structure to be Removed
- #55 Structure to be Replaced
- #55 Proposed Temporary Structure
- #55 Existing Structure
- TNEC ROW
- - - TNEC Easement
- Line 61 (To Be Rebuilt)
- Line 62 (To Be Rebuilt)
- Access
- Limit of Disturbance Approved Under Permit 16-0318
- Proposed Swamp Mats
- Timber Mat Bridge (Detail 7)
- Compost Filter Sock (Detail 1)
- Proposed Retaining Wall
- Stabilized Construction Exit (Detail 9)
- Proposed Tree Line
- Flood Zone
- 1% Annual Chance of Flooding
- Proposed Limit of Disturbance (Additional Access)
- Proposed Additional Swamp Mats
- Delineated Wetland Edge
- Approximate Wetland Edge
- 50' Perimeter Wetland
- Stream
- 100' Riverbank Wetland
- Edge of Open Water
- ASSF
- Wetlands
- Existing Guy Wire Anchor
- Drop Inlet Catch Basin
- Culvert
- Gate
- Sleeve in Wire
- Stonewall
- Existing Tree Line

**AQUIDNECK ISLAND RELIABILITY PROJECT
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