

Data Sources: ESRI
Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

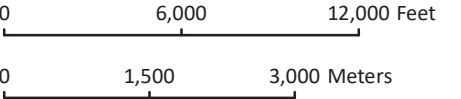
USACE-NLW
RCVD 8/30/2022

COASTAL VIRGINIA OFFSHORE
WIND:
JOINT PERMIT APPLICATION

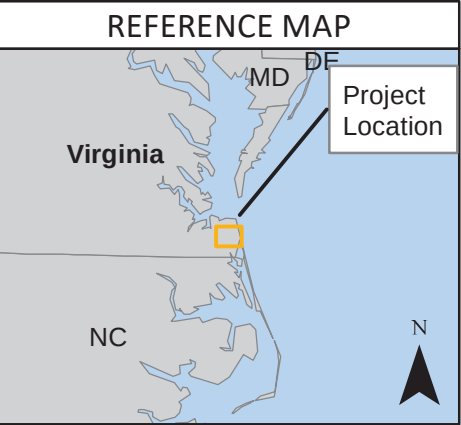


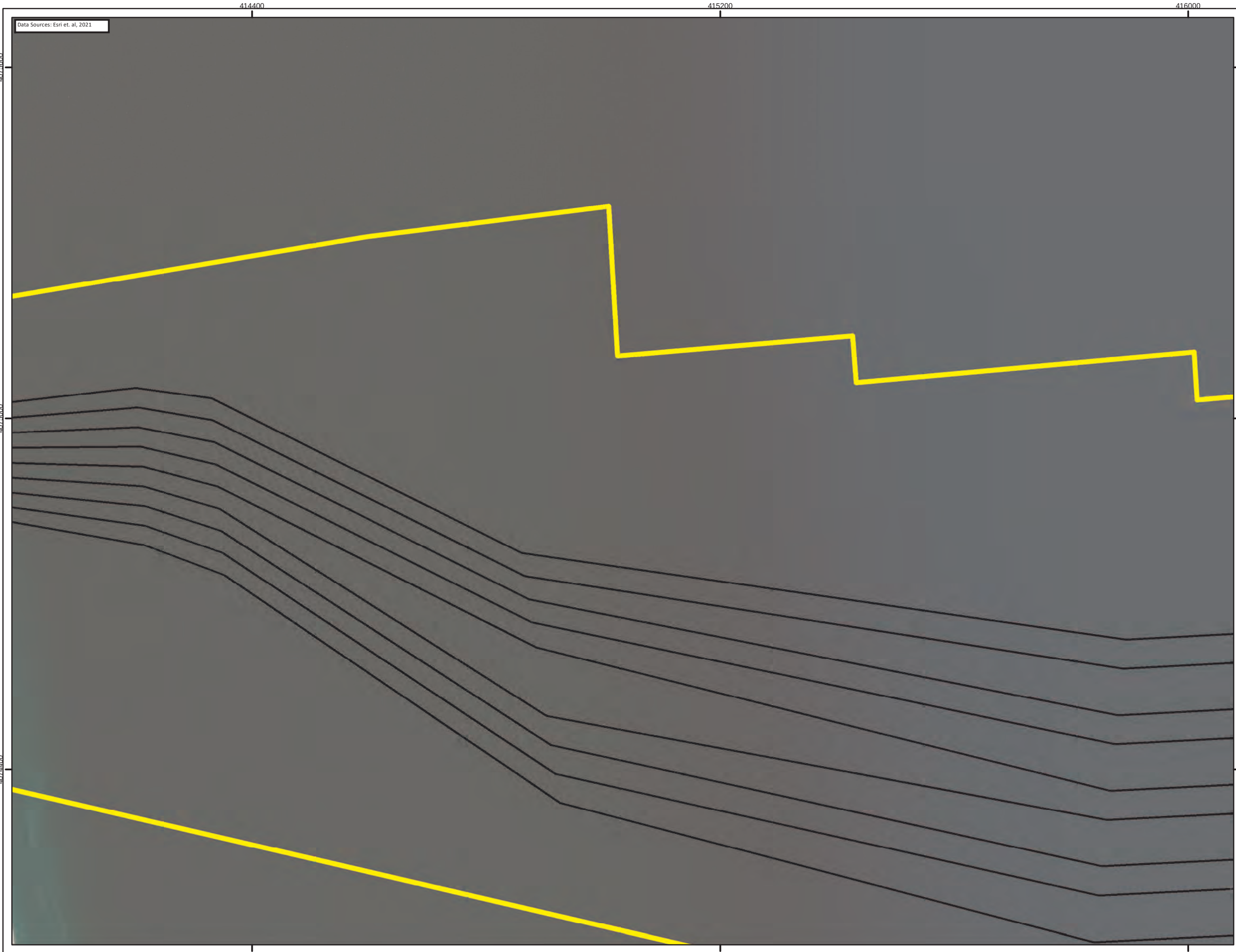
- Legend**
- Map Sheet
 - Project Area

Date	8/24/2022
Projection	NAD 1983 2011 UTM Zone 18N
Personnel	Figure Prepared by: Tetra Tech Offshore GIS Group



1 inch = 6,500 feet
when printed at 11"x17"





Data Sources: Esri et. al, 2021

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RCVD 8/30/2022

COASTAL VIRGINIA OFFSHORE
WIND:
JOINT PERMIT APPLICATION
ONSHORE IMPACT MAP

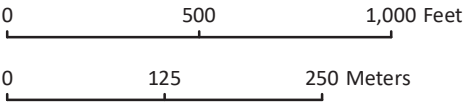


Legend

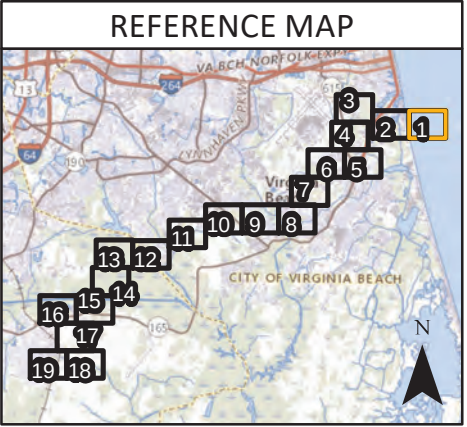
 Offshore Export Cable Corridor

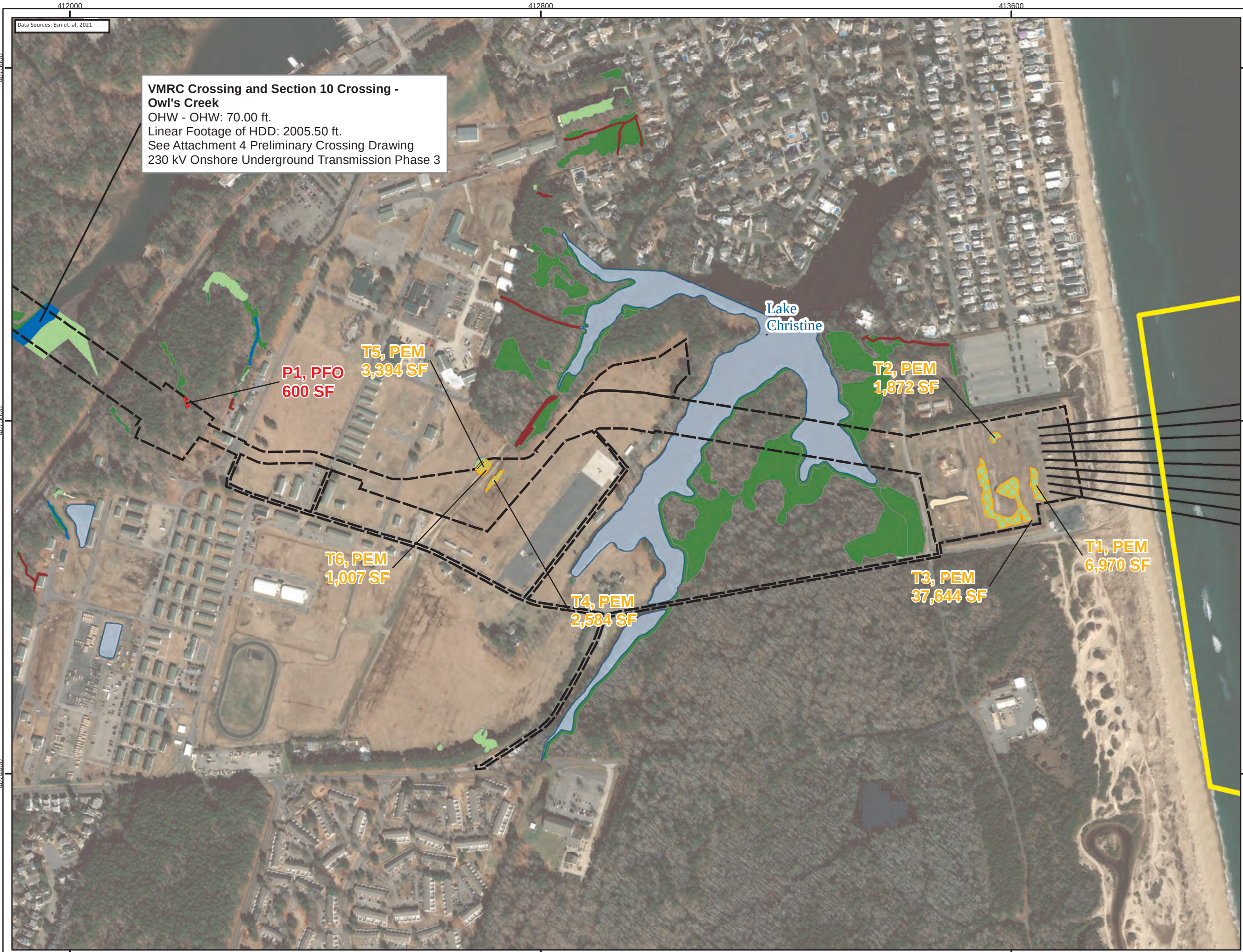
 Offshore Export Cable

Date	8/26/2022
Projection	NAD 1983 2011 UTM Zone 18N
Personnel	Figure Prepared by: Tetra Tech Offshore GIS Group



1 inch = 500 feet
when printed at 11"x17"





VMRC Crossing and Section 10 Crossing - Owl's Creek
OHW - OHW: 70.00 ft.
Linear Footage of HDD: 2005.50 ft.
See Attachment 4 Preliminary Crossing Drawing 230 kV Onshore Underground Transmission Phase 3

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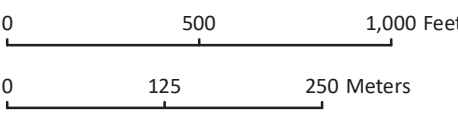
**COASTAL VIRGINIA OFFSHORE
WIND:
JOINT PERMIT APPLICATION
ONSHORE IMPACT MAP**

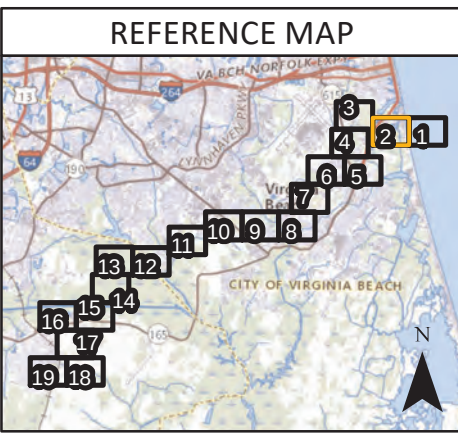
Legend

-  Project Area
-  Offshore Export Cable Corridor
-  Offshore Export Cable
-  Ditch
-  Stream
-  Waterbody
- Delineated Wetland**
 -  Palustrine Emergent
 -  Palustrine Forested
 -  Palustrine Scrub-Shrub
- Wetland Impact**
 -  Temporary Impact
 -  Permanent Impact

Date	8/26/2022
Projection	NAD 1983 2011 UTM Zone 18N
Personnel	Figure Prepared by: Tetra Tech Offshore GIS Group



1 inch = 500 feet
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Data Sources: Esri et. al, 2021

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**COASTAL VIRGINIA OFFSHORE
WIND:
JOINT PERMIT APPLICATION
ONSHORE IMPACT MAP**

Legend

 Project Area

 Ditch

 Stream

Delineated Wetland

 Palustrine Forested

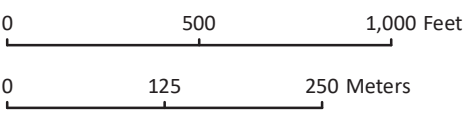
 Palustrine Scrub-Shrub

Wetland Impact

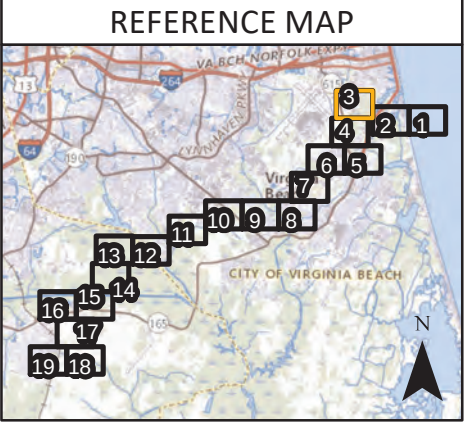
 Permanent Impact

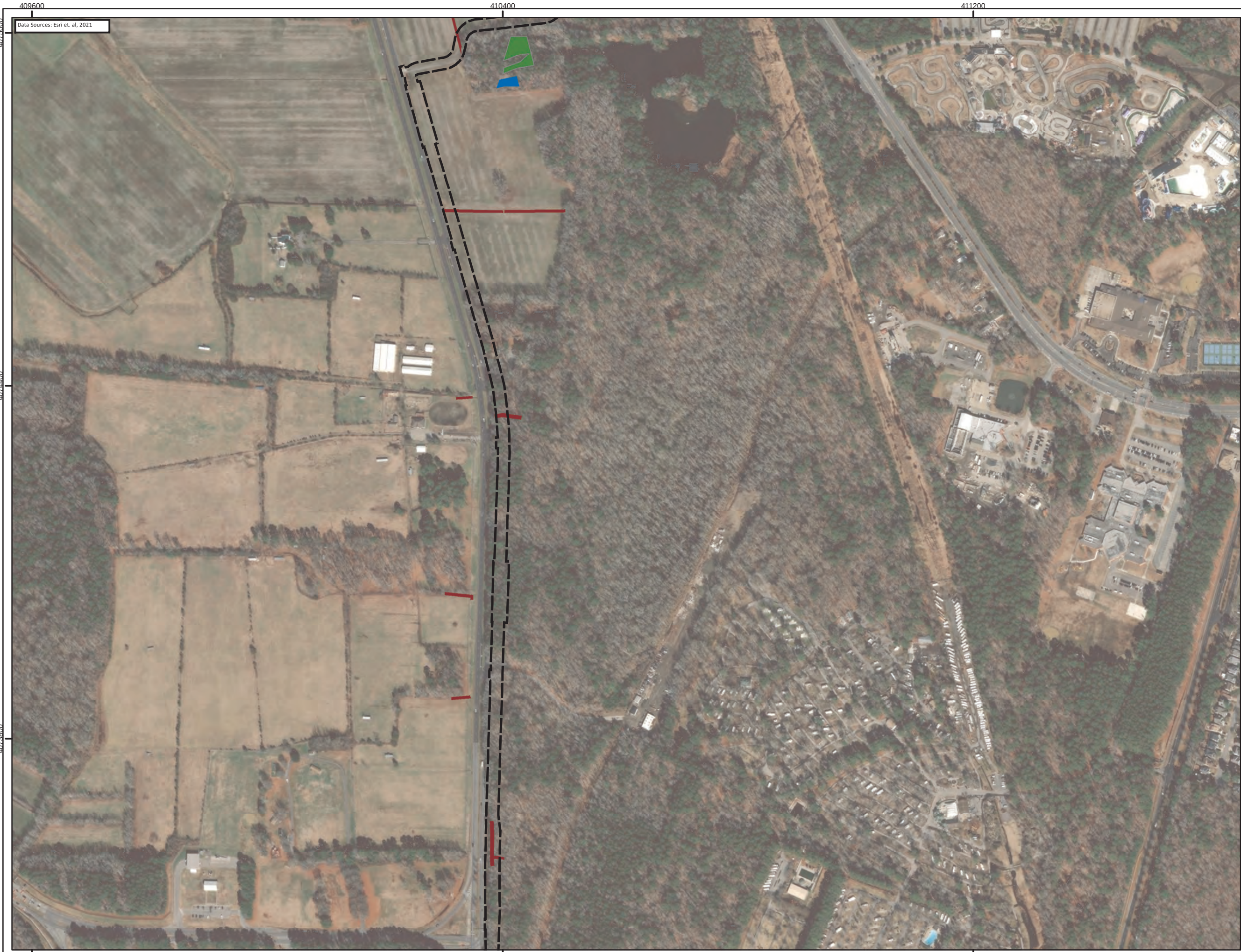
 Conversion Impact

Date	8/26/2022
Projection	NAD 1983 2011 UTM Zone 18N
Personnel	Figure Prepared by: Tetra Tech Offshore GIS Group



1 inch = 500 feet
when printed at 11"x17"





Data Sources: Esri et. al, 2021

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**COASTAL VIRGINIA OFFSHORE
WIND:
JOINT PERMIT APPLICATION
ONSHORE IMPACT MAP**

Legend

 Project Area

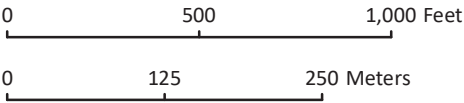
 Ditch

 Stream

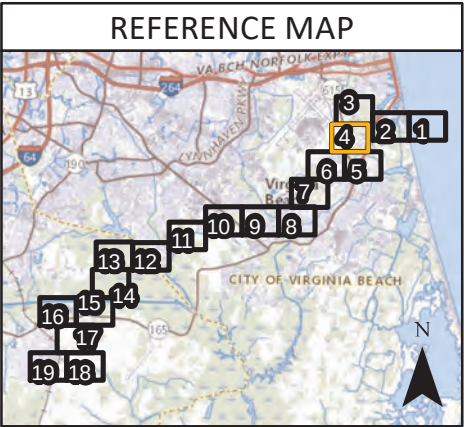
Delineated Wetland

 Palustrine Forested

Date	8/26/2022
Projection	NAD 1983 2011 UTM Zone 18N
Personnel	Figure Prepared by: Tetra Tech Offshore GIS Group



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Data Sources: Esri et. al, 2021

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COASTAL VIRGINIA OFFSHORE
WIND:
JOINT PERMIT APPLICATION
ONSHORE IMPACT MAP



Legend

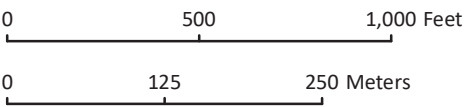
 Project Area

 Ditch

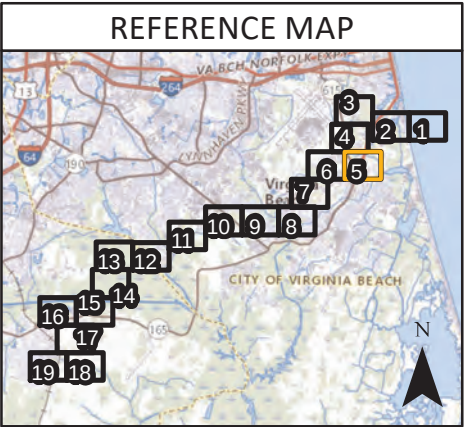
Delineated Wetland

 Palustrine Emergent

Date	8/26/2022
Projection	NAD 1983 2011 UTM Zone 18N
Personnel	Figure Prepared by: Tetra Tech Offshore GIS Group



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Data Sources: Esri et. al, 2021

408800 409600

4073200 4072600 4072000

NOT FOR CONSTRUCTION

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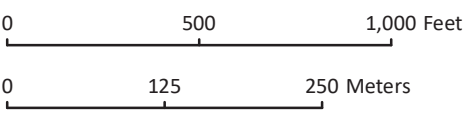
COASTAL VIRGINIA OFFSHORE WIND: JOINT PERMIT APPLICATION ONSHORE IMPACT MAP



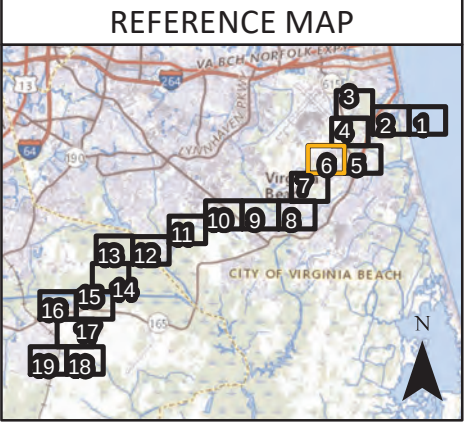
Legend

- Project
- Proposed Structure
- Ditch
- Stream
- Waterbody
- Delineated Wetland**
 - Palustrine Emergent
 - Palustrine Forested
 - Palustrine Scrub-Shrub
- Wetland Impact**
 - Temporary Impact
 - Permanent Impact

Date	8/26/2022
Projection	NAD 1983 2011 UTM Zone 18N
Personnel	Figure Prepared by: Tetra Tech Offshore GIS Group



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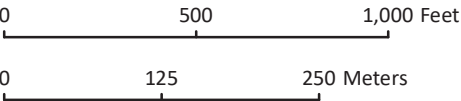
COASTAL VIRGINIA OFFSHORE
WIND:
JOINT PERMIT APPLICATION
ONSHORE IMPACT MAP



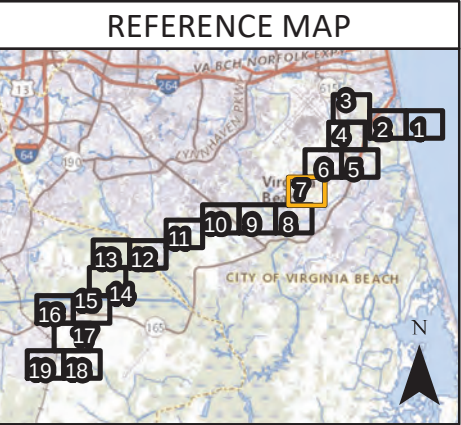
Legend

- Project Area
- Proposed Structure
- Ditch
- Stream
- Delineated Wetland
 - Palustrine Emergent
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Date	8/26/2022
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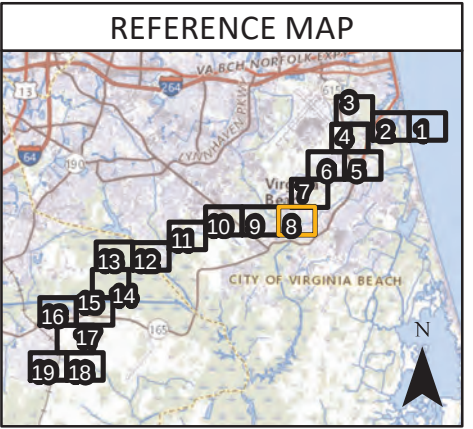
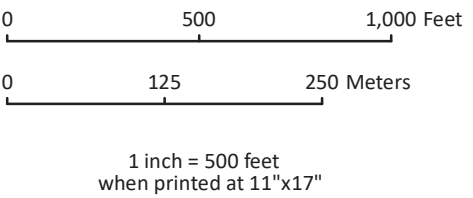
USACE-NLW
RCVD 8/30/2022

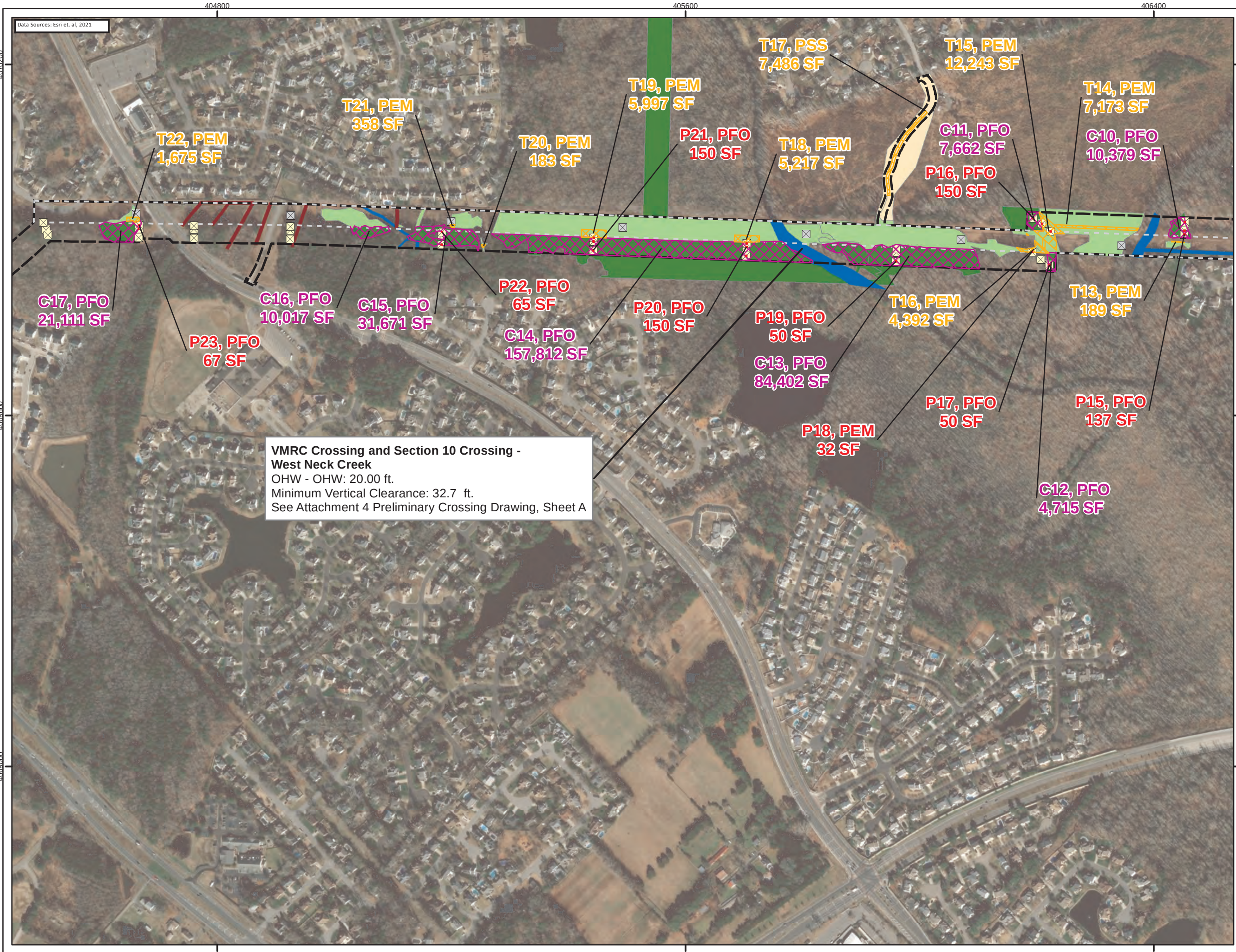
**COASTAL VIRGINIA OFFSHORE
WIND:
JOINT PERMIT APPLICATION
ONSHORE IMPACT MAP**

Legend

- Project Area
- Existing Right-of-Way
- Proposed Structure
- Existing Structure
- Ditch
- Stream
- Delineated Wetland**
 - Palustrine Emergent
- Wetland Impact**
 - Temporary Impact
 - Permanent Impact

Date	8/26/2022
Projection	NAD 1983 2011 UTM Zone 18N
Personnel	Figure Prepared by: Tetra Tech Offshore GIS Group





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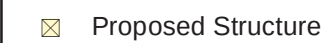
COASTAL VIRGINIA OFFSHORE
WIND:
JOINT PERMIT APPLICATION
ONSHORE IMPACT MAP



Legend

 Project Area

 Existing Right-of-Way

 Proposed Structure

 Existing Structure

 Ditch

 Stream

Delineated Wetland

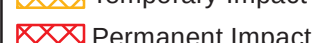
 Palustrine Emergent

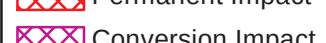
 Palustrine Forested

 Palustrine Scrub-Shrub

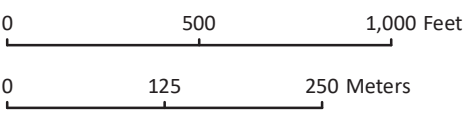
Wetland Impact

 Temporary Impact

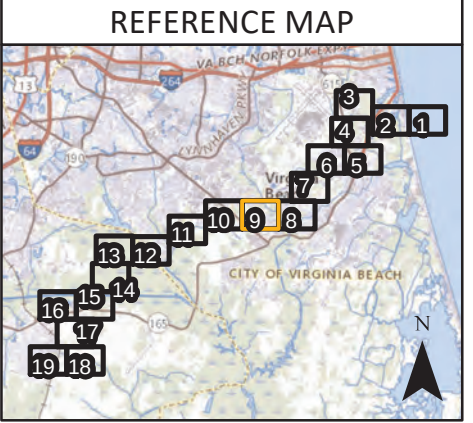
 Permanent Impact

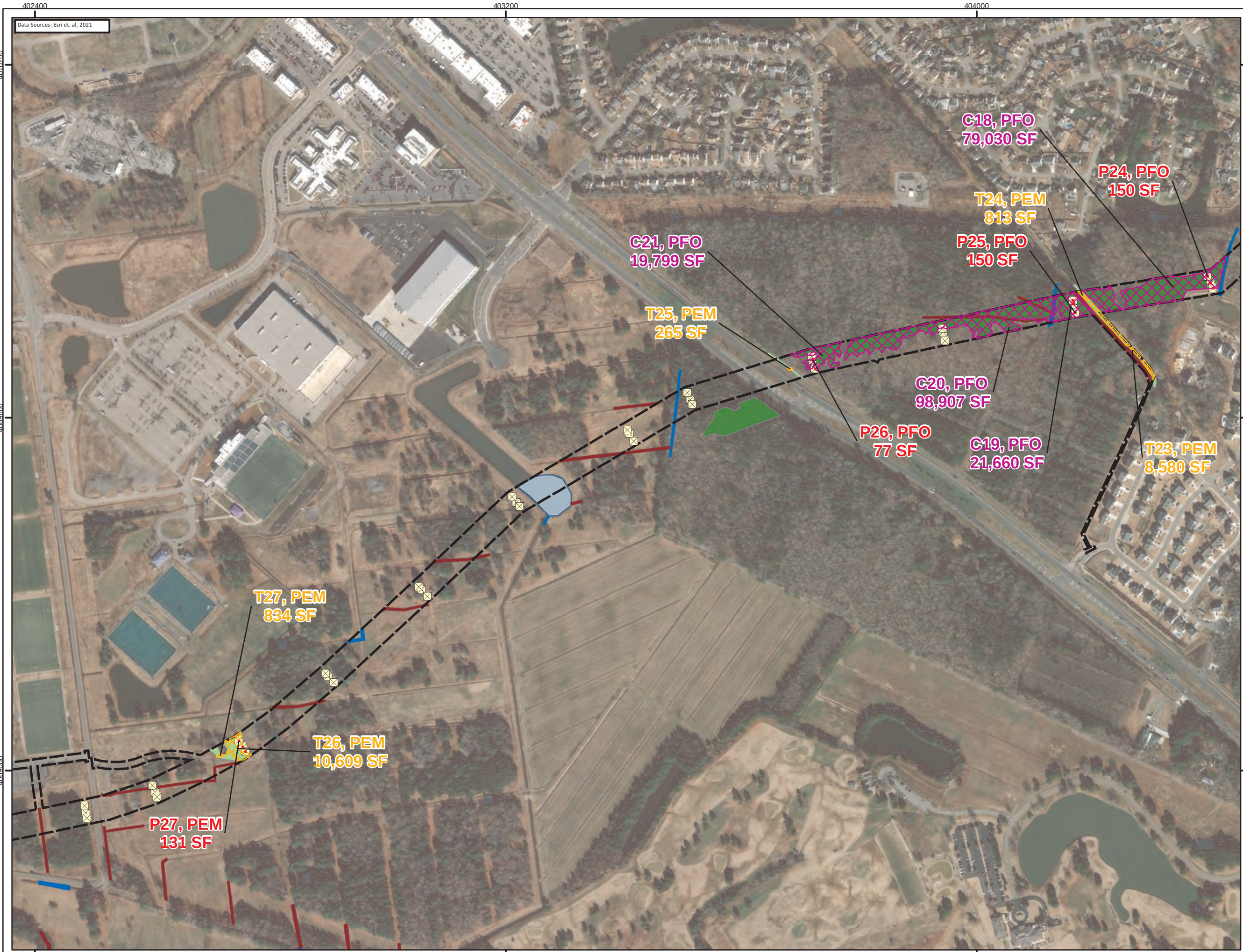
 Conversion Impact

Date	8/26/2022
Projection	NAD 1983 2011 UTM Zone 18N
Personnel	Figure Prepared by: Tetra Tech Offshore GIS Group



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402400 403200 404000

Data Sources: Esri et. al, 2021

4070200 4069600 4069000

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COASTAL VIRGINIA OFFSHORE
WIND:
JOINT PERMIT APPLICATION
ONSHORE IMPACT MAP



Legend

 Project Area

 Proposed Structure

 Ditch

 Stream

 Waterbody

Delineated Wetland

 Palustrine Emergent

 Palustrine Forested

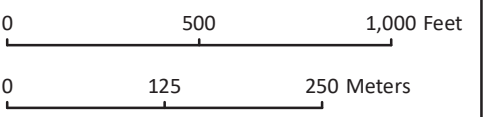
Wetland Impact

 Temporary Impact

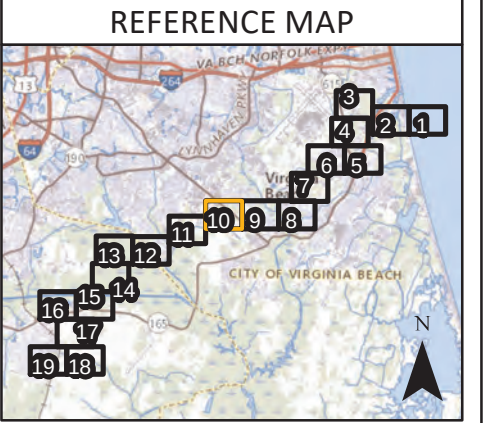
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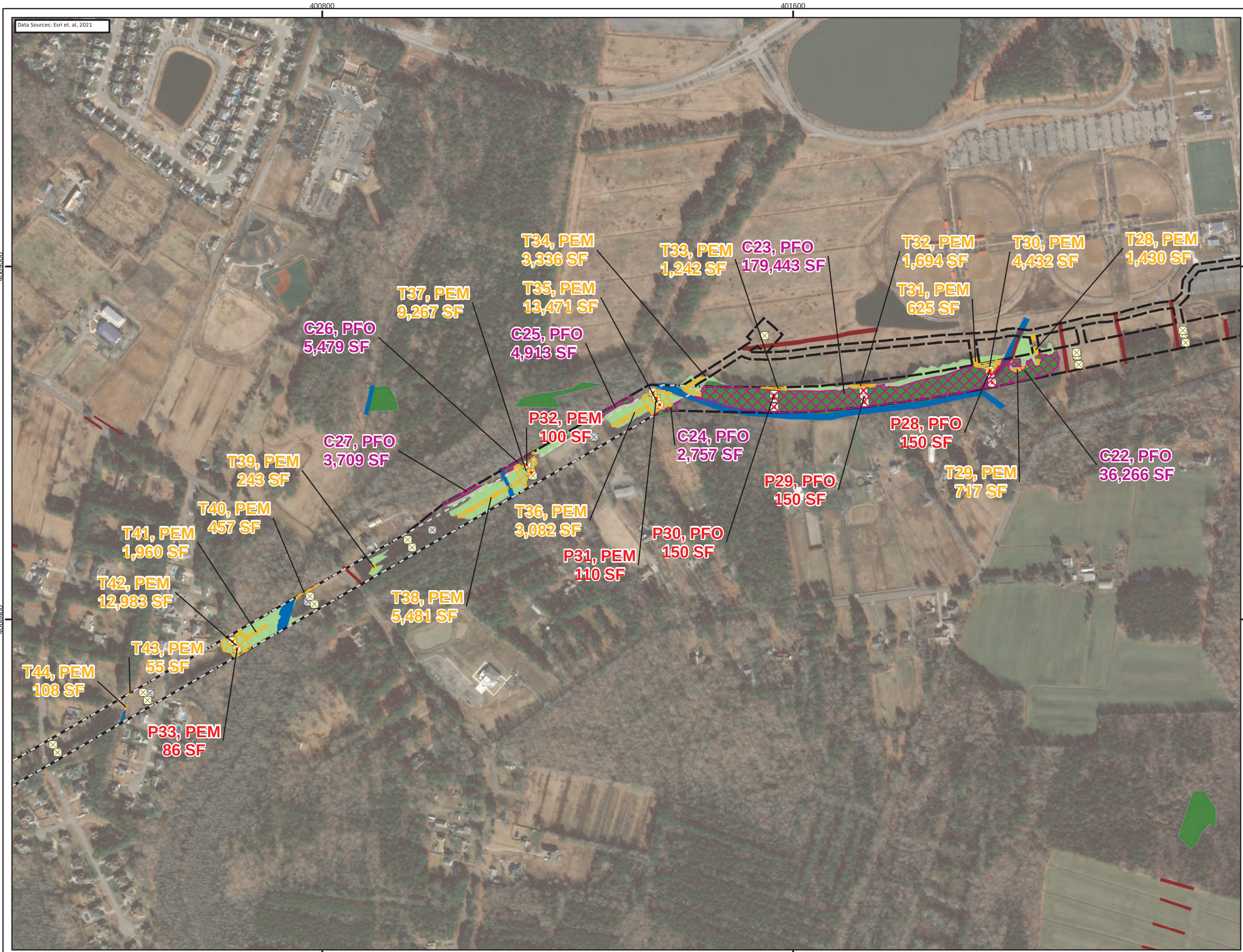
 Conversion Impact

Date	8/26/2022
Projection	NAD 1983 2011 UTM Zone 18N
Personnel	Figure Prepared by: Tetra Tech Offshore GIS Group



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COASTAL VIRGINIA OFFSHORE
WIND:
JOINT PERMIT APPLICATION
ONSHORE IMPACT MAP



Legend

 Project Area

 Existing Right-of-Way

 Proposed Structure

 Existing Structure

 Ditch

 Stream

Delineated Wetland

 Palustrine Emergent

 Palustrine Forested

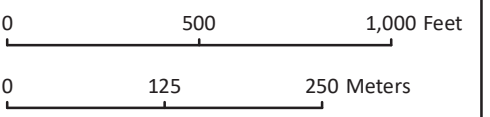
Wetland Impact

 Temporary Impact

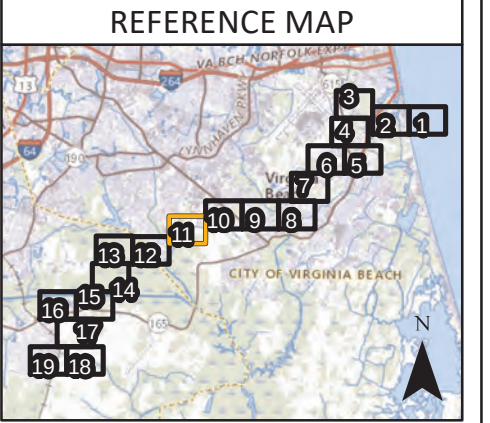
 Permanent Impact

 Conversion Impact

Date	8/26/2022
Projection	NAD 1983 2011 UTM Zone 18N
Personnel	Figure Prepared by: Tetra Tech Offshore GIS Group



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VMRC Crossing and Section 10 Crossing -
North Landing River
OHW - OHW: 48.00 ft.
Minimum Vertical Clearance: 30.3 ft.
See Attachment 4 Preliminary Crossing Drawing, Sheet B

VMRC Crossing and Section 10 Crossing -
Drainage area of 10.4 sq miles (source: stream stats)
*No bed and bank observed in the field
- may require additional VMRC field confirmation
Minimum Vertical Clearance: 35.8 ft.
See Attachment 4 Preliminary Crossing Drawing, Sheet C

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COASTAL VIRGINIA OFFSHORE
WIND:
JOINT PERMIT APPLICATION
ONSHORE IMPACT MAP



Legend

 Project Area

 Existing Right-of-Way

 Proposed Structure

 Existing Structure

 Stream

Delineated Wetland

 Palustrine Emergent

 Palustrine Forested

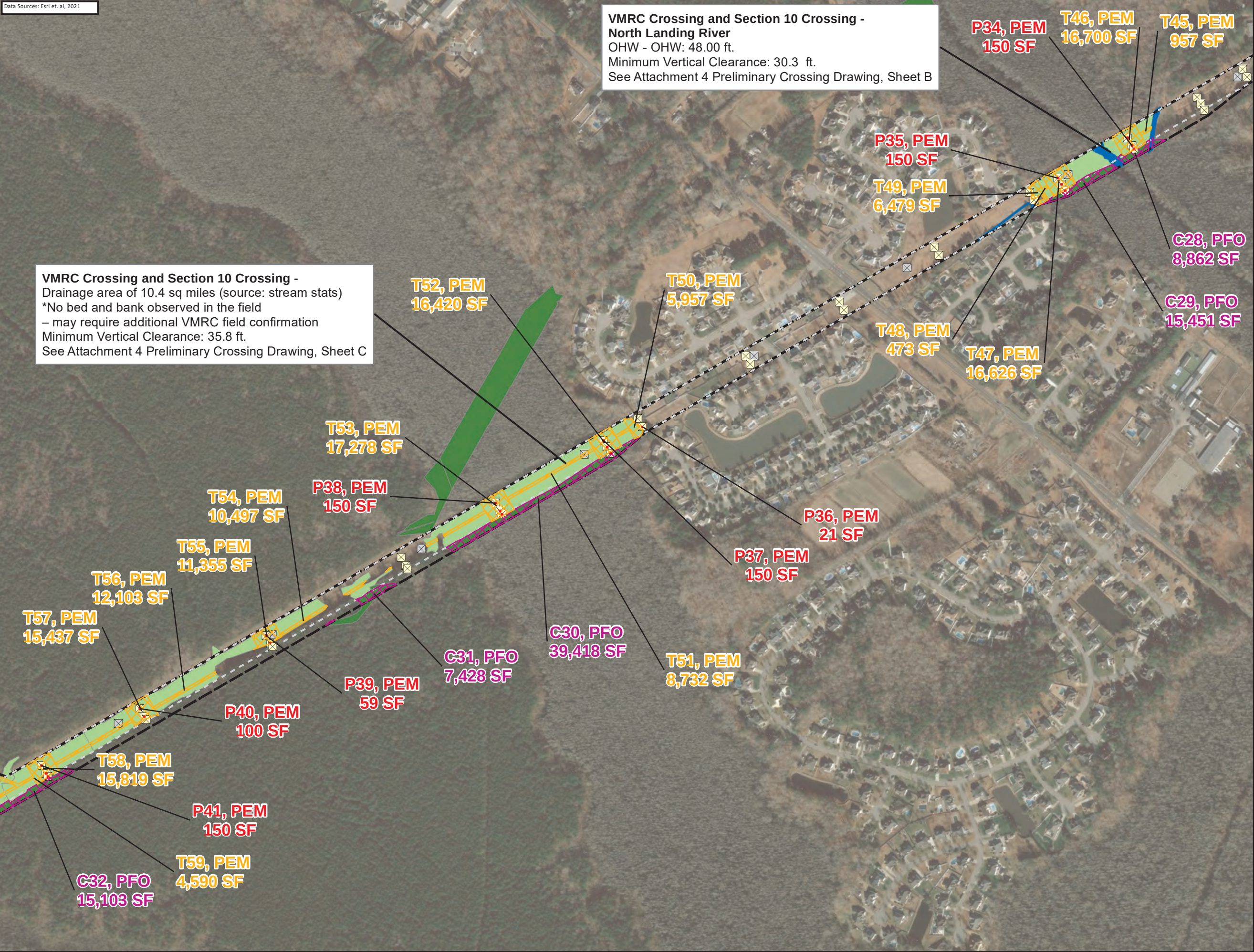
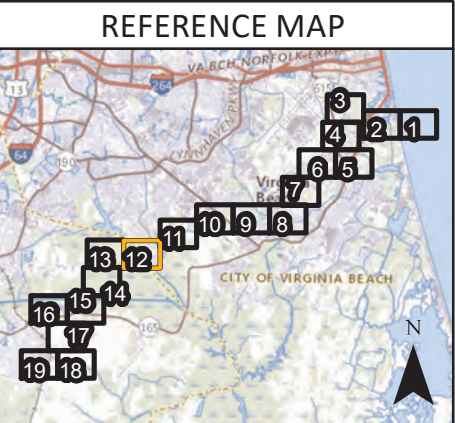
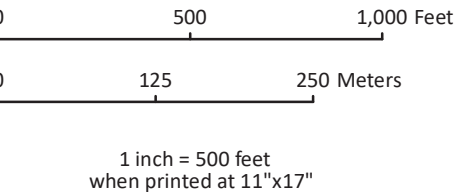
Wetland Impact

 Temporary Impact

 Permanent Impact

 Conversion Impact

Date	8/26/2022
Projection	NAD 1983 2011 UTM Zone 18N
Personnel	Figure Prepared by: Tetra Tech Offshore GIS Group



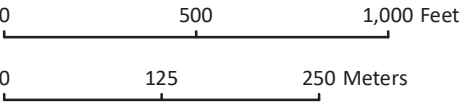
COASTAL VIRGINIA OFFSHORE
WIND:
JOINT PERMIT APPLICATION
ONSHORE IMPACT MAP



Legend

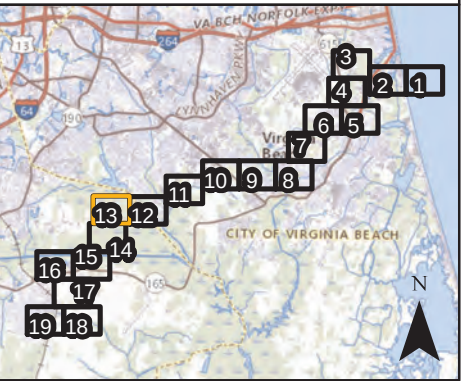
- Project Area
- Existing Right-of-Way
- Proposed Structure
- Existing Structure
- Delineated Wetland**
 - Palustrine Emergent
 - Palustrine Forested
- Wetland Impact**
 - Temporary Impact
 - Permanent Impact
 - Conversion Impact

Date	8/26/2022
Projection	NAD 1983 2011 UTM Zone 18N
Personnel	Figure Prepared by: Tetra Tech Offshore GIS Group



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REFERENCE MAP



T60, PEM
47,197 SF

T61, PEM
6,460 SF

C33, PFO
40,806 SF

T62, PEM
15,411 SF

T63, PEM
7,896 SF

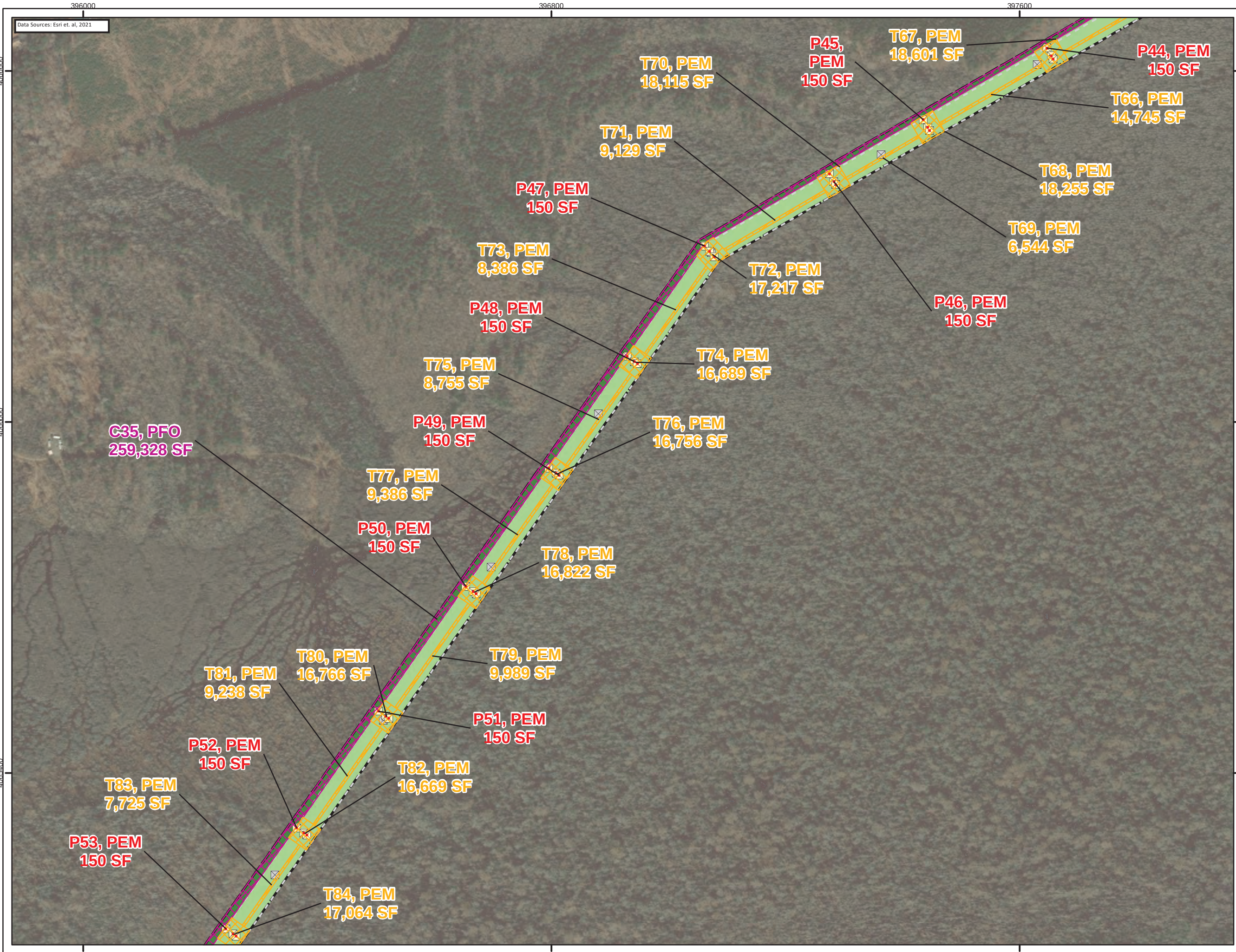
C34, PFO
19,151 SF

T64, PEM
18,309 SF

T65, PEM
3,207 SF

P43, PEM
150 SF

P42, PEM
150 SF



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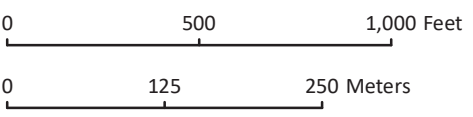
**COASTAL VIRGINIA OFFSHORE
WIND:
JOINT PERMIT APPLICATION
ONSHORE IMPACT MAP**

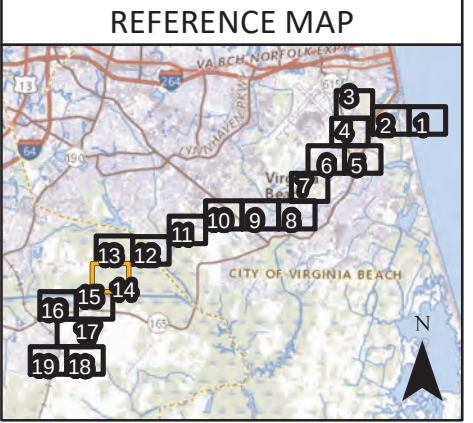
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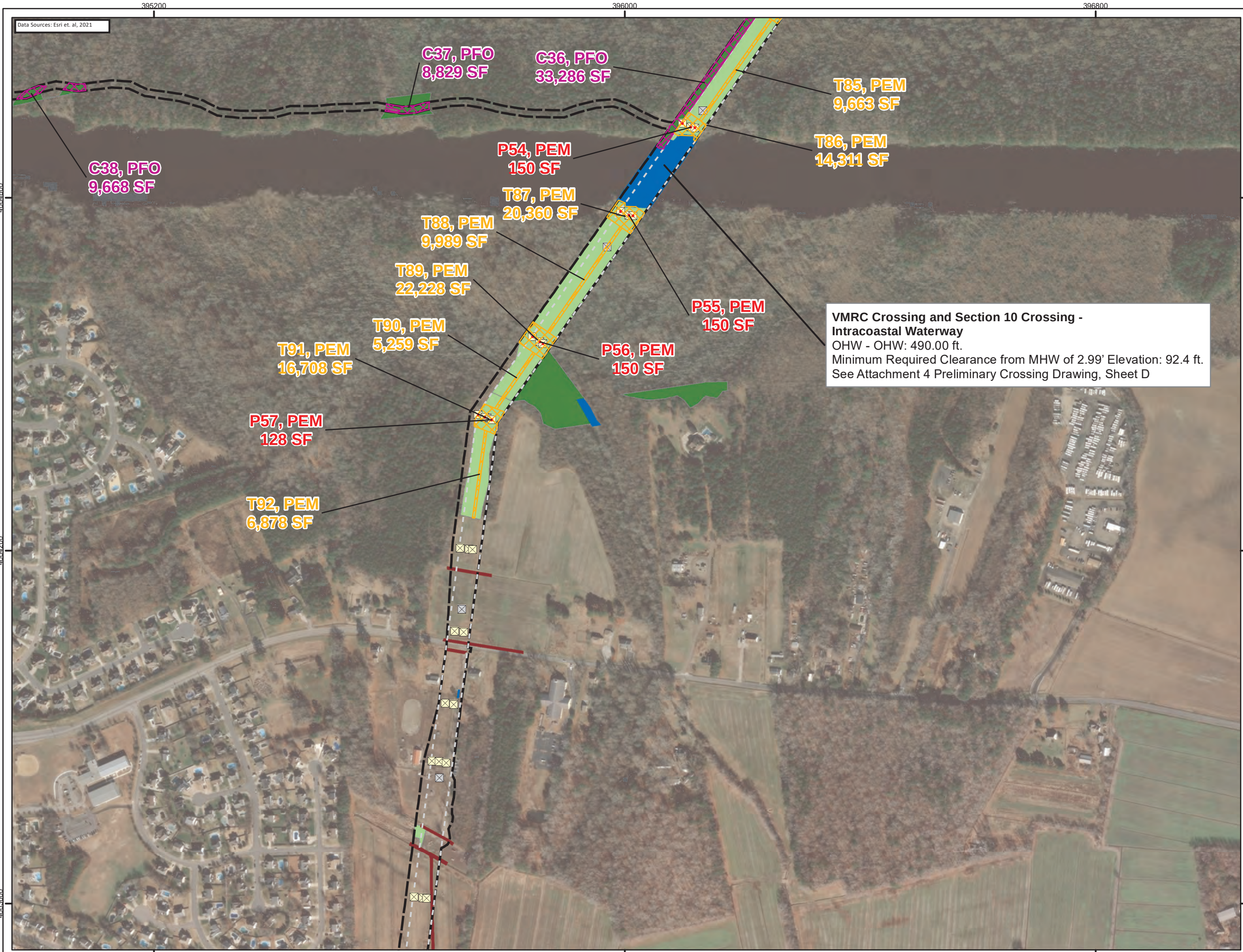
-  Project Area
-  Existing Right-of-Way
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Date	8/26/2022
Projection	NAD 1983 2011 UTM Zone 18N
Personnel	Figure Prepared by: Tetra Tech Offshore GIS Group



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COASTAL VIRGINIA OFFSHORE

WIND:

JOINT PERMIT APPLICATION

ONSHORE IMPACT MAP



Legend

- Project Area
- Existing Right-of-Way
- Proposed Structure
- Existing Structure
- Ditch
- Stream

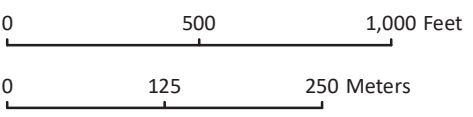
Delineated Wetland

- Palustrine Emergent
- Palustrine Forested

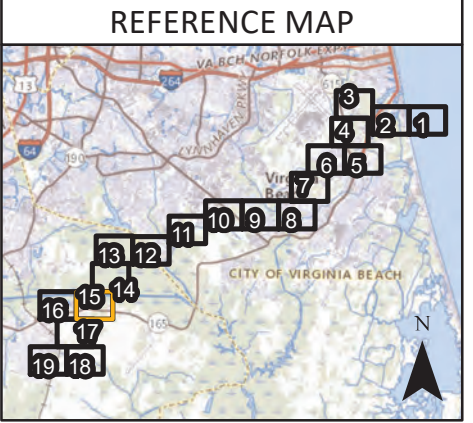
Wetland Impact

- Temporary Impact
- Permanent Impact
- Conversion Impact

Date	8/26/2022
Projection	NAD 1983 2011 UTM Zone 18N
Personnel	Figure Prepared by: Tetra Tech Offshore GIS Group



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COASTAL VIRGINIA OFFSHORE
WIND:
JOINT PERMIT APPLICATION
ONSHORE IMPACT MAP



Legend

- Project Area
- Stream
- Delineated Wetland**
 - Palustrine Forested
- Wetland Impact**
 - Conversion Impact

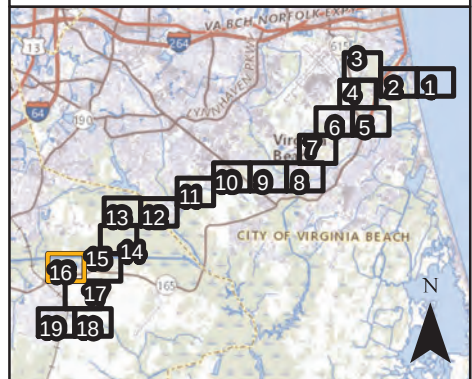
Date	8/26/2022
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Personnel	Figure Prepared by: Tetra Tech Offshore GIS Group

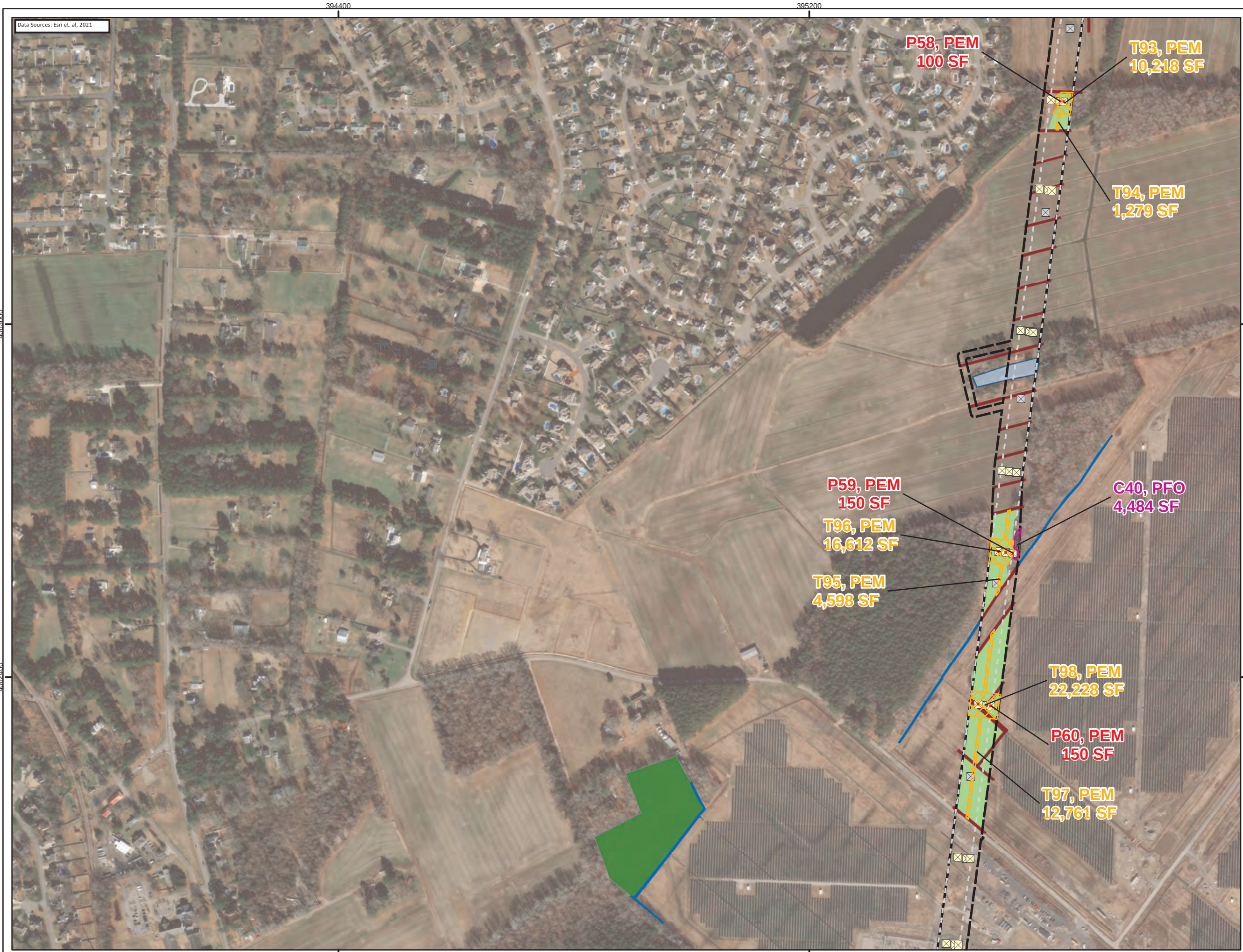
0 500 1,000 Feet

0 125 250 Meters

1 inch = 500 feet
when printed at 11"x17"

REFERENCE MAP





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RCVD 8/30/2022

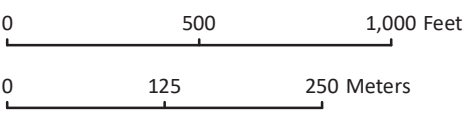
**COASTAL VIRGINIA OFFSHORE
WIND:
JOINT PERMIT APPLICATION
ONSHORE IMPACT MAP**

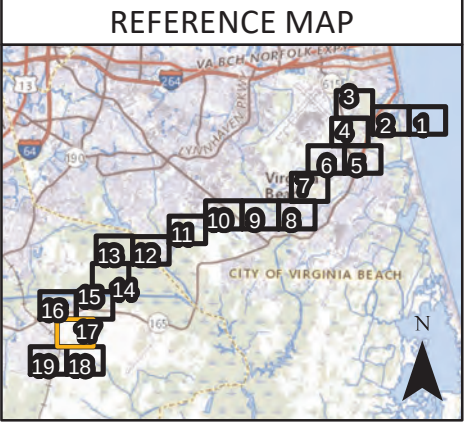
Legend

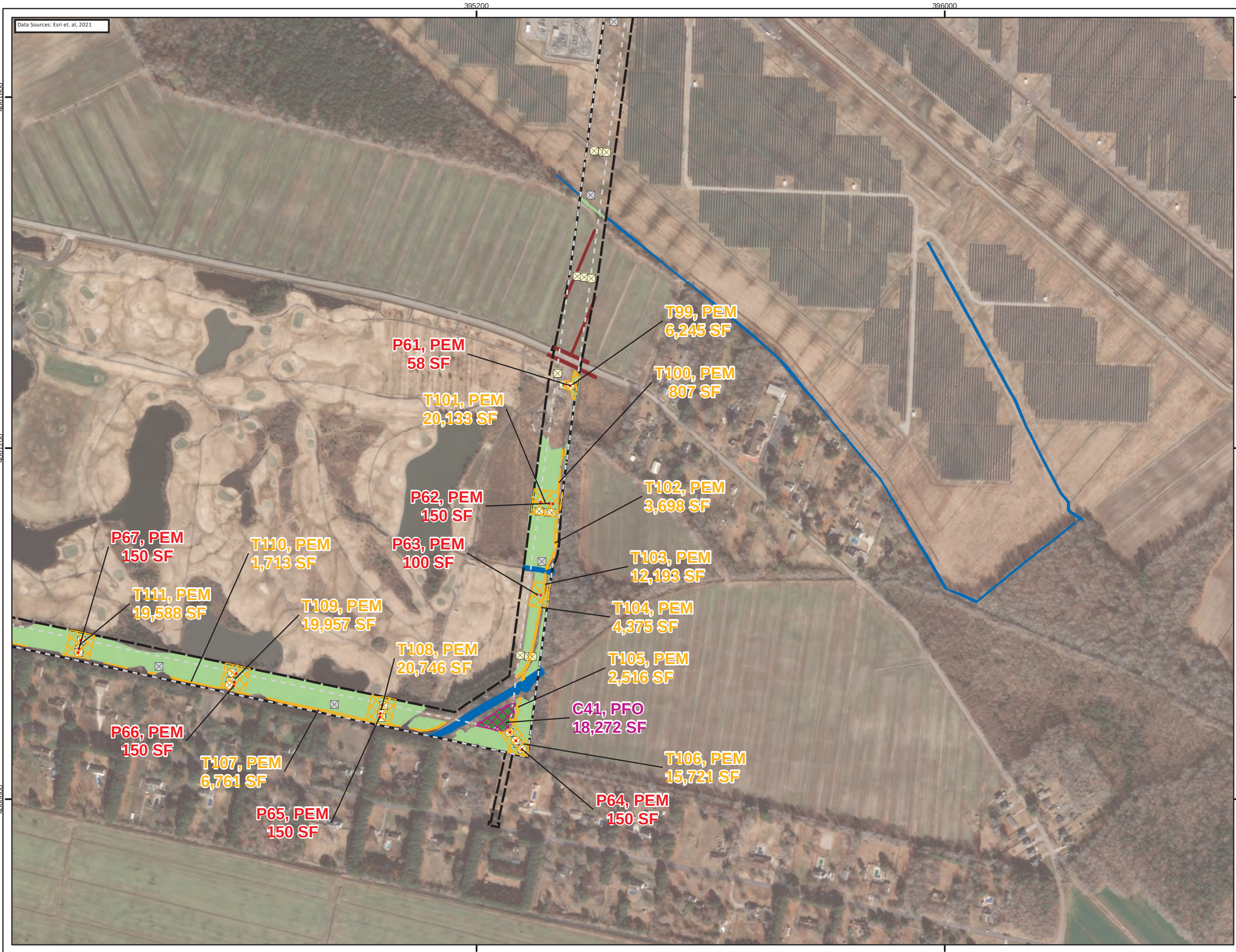
-  Project Area
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-  Proposed Structure
-  Existing Structure
-  Ditch
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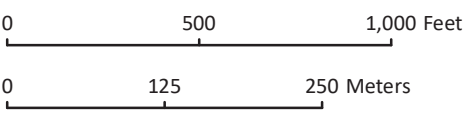
**COASTAL VIRGINIA OFFSHORE
WIND:
JOINT PERMIT APPLICATION
ONSHORE IMPACT MAP**

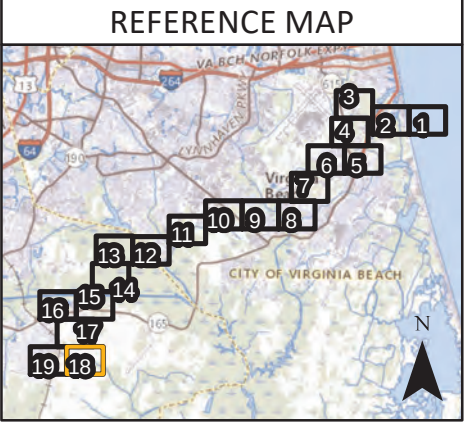
Legend

-  Project Area
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**COASTAL VIRGINIA OFFSHORE
WIND:
JOINT PERMIT APPLICATION
ONSHORE IMPACT MAP**

Legend

-  Project Area
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Personnel	Figure Prepared by: Tetra Tech Offshore GIS Group

