

Western Wake Regional  
Water Reclamation Facility

Project Limits

Proposed Pump Station



2,000 0 2,000 Feet

1 inch = 2,000 feet



**Hazen**

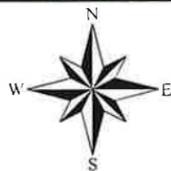
**USGS Topographic Map**  
Big Branch Pump Station and Force Main  
Town of Apex  
Apex, North Carolina



Western Wake Regional  
Water Reclamation Facility

Project Limits

Proposed Pump Station



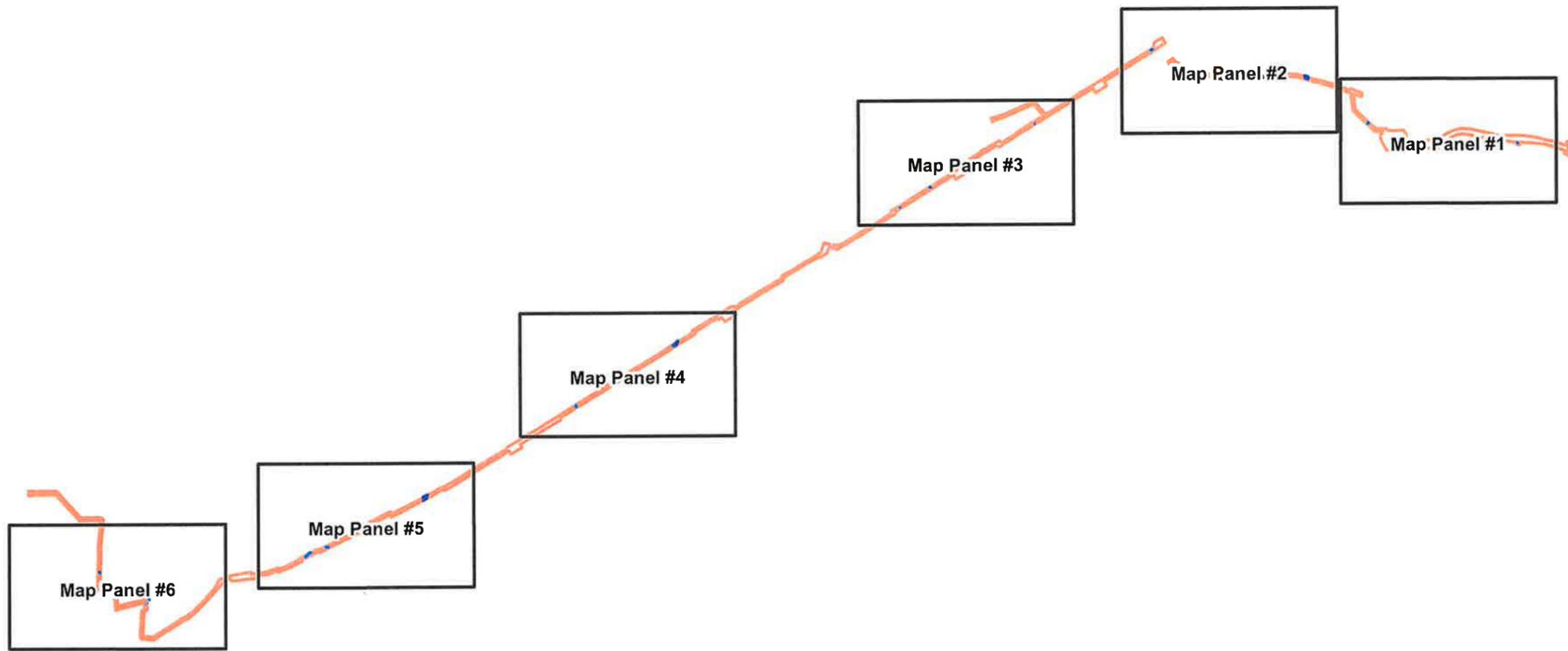
2,000 0 2,000 Feet

1 inch = 2,000 feet



**Hazen**

**Aerial Vicinity Map**  
Big Branch Pump Station and Force Main  
Town of Apex  
Apex, North Carolina



2,000 0 2,000 Feet

1 inch = 2,000 feet

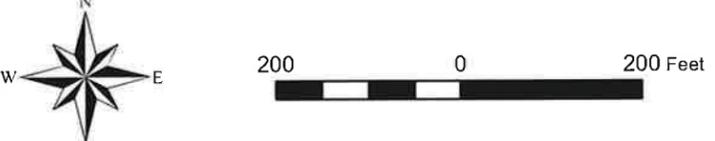


**Hazen**

**Delineation Map - Index**  
Big Branch Pump Station and Force Main  
Town of Apex  
Apex, North Carolina

**Legend**

-  Jurisdictional Stream
-  Jurisdictional Wetland
-  Proposed Project Limits

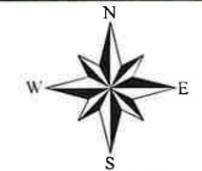
1 inch = 200 feet



**Delineation Map - Panel 1**  
 Big Branch Pump Station and Force Main  
 Town of Apex  
 Apex, North Carolina

**Legend**

-  Jurisdictional Stream
-  Jurisdictional Wetland
-  Proposed Project Limits



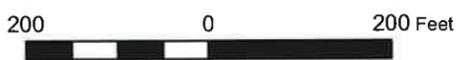
1 inch = 200 feet



**Delineation Map - Panel 2**  
Big Branch Pump Station and Force Main  
Town of Apex  
Apex, North Carolina

**Legend**

-  Jurisdictional Stream
-  Jurisdictional Wetland
-  Proposed Project Limits



1 inch = 200 feet



**Delineation Map - Panel 3**  
 Big Branch Pump Station and Force Main  
 Town of Apex  
 Apex, North Carolina

**Legend**

-  Jurisdictional Stream
-  Jurisdictional Wetland
-  Proposed Project Limits

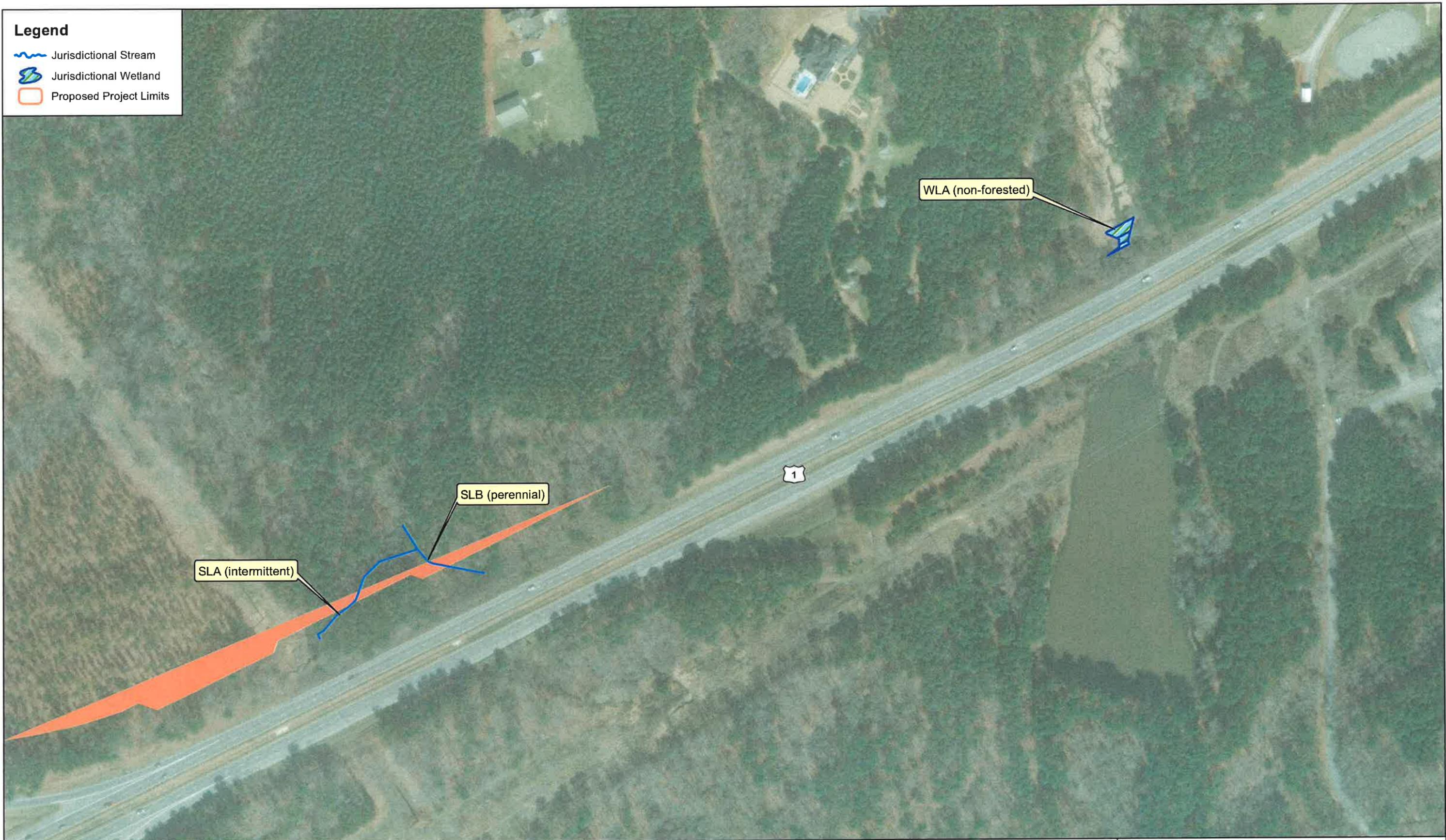


1 inch = 200 feet



**Delineation Map - Panel 4**  
Big Branch Pump Station and Force Main  
Town of Apex  
Apex, North Carolina

- Legend**
-  Jurisdictional Stream
  -  Jurisdictional Wetland
  -  Proposed Project Limits



1 inch = 200 feet

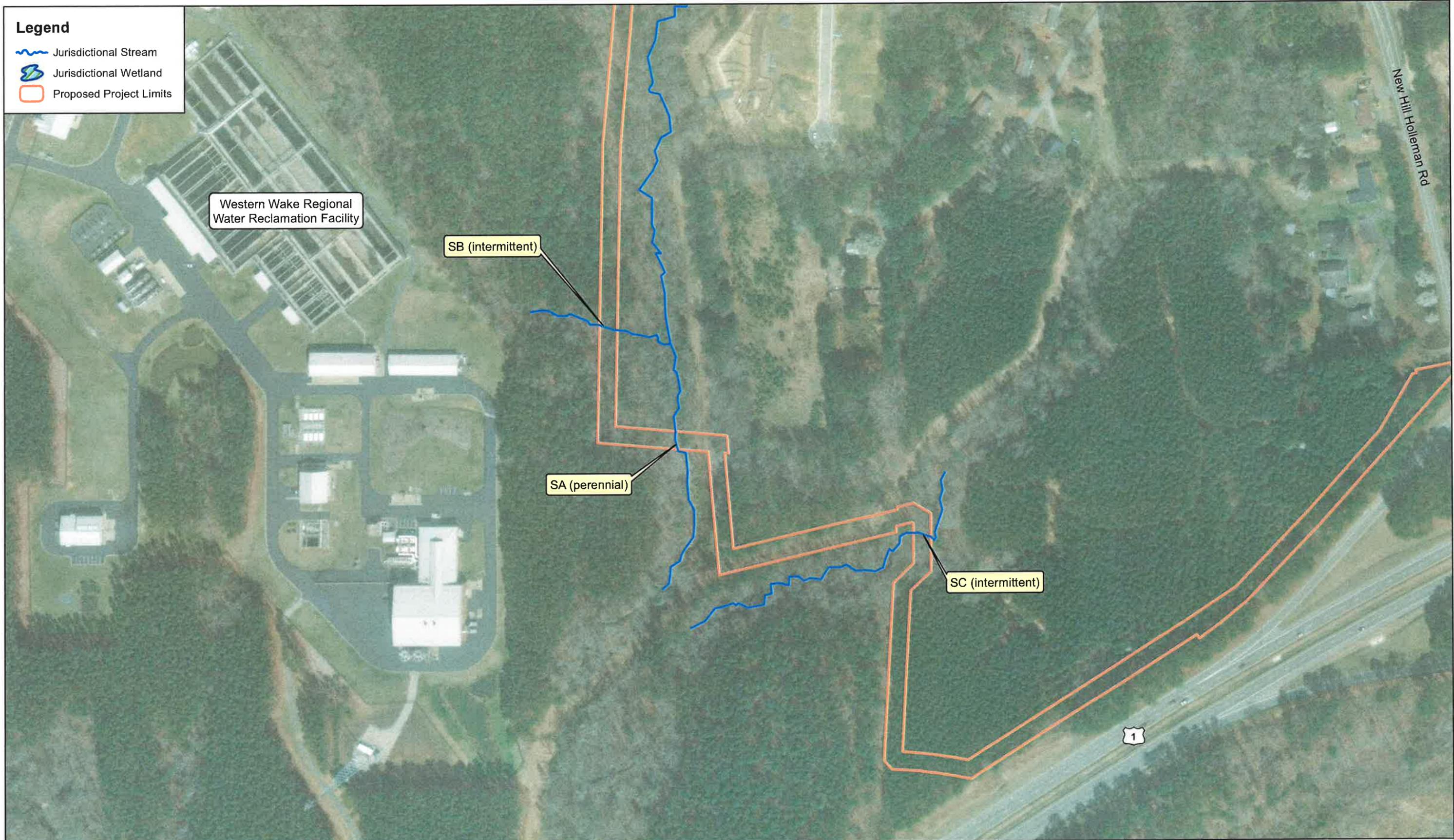


**Hazen**

**Delineation Map - Panel 5**  
 Big Branch Pump Station and Force Main  
 Town of Apex  
 Apex, North Carolina

**Legend**

-  Jurisdictional Stream
-  Jurisdictional Wetland
-  Proposed Project Limits



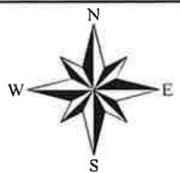
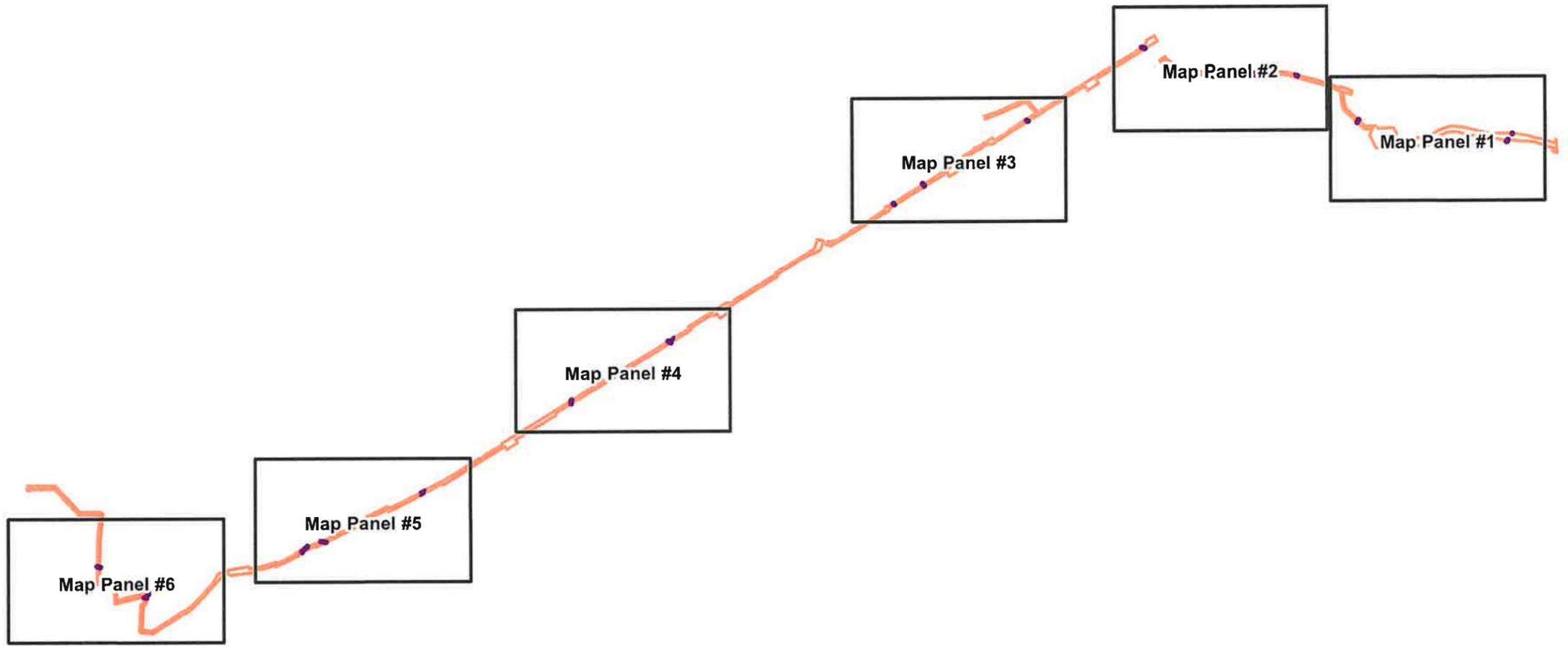
200 0 200 Feet

1 inch = 200 feet



**Hazen**

**Delineation Map - Panel 6**  
Big Branch Pump Station and Force Main  
Town of Apex  
Apex, North Carolina



2,000 0 2,000 Feet

1 inch = 2,000 feet

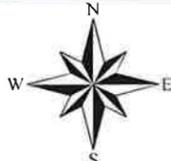


**Hazen**

**Impacts Map - Index**  
Big Branch Pump Station and Force Main  
Town of Apex  
Apex, North Carolina

**Legend**

-  Permanent Stream Impact
-  Temporary Stream Impact
-  Permanent Wetland Impact
-  Temporary Wetland Impact
-  Proposed Project Limits


1 inch = 200 feet





**Impacts Map - Panel 1**  
 Big Branch Pump Station and Force Main  
 Town of Apex  
 Apex, North Carolina

**Legend**

-  Permanent Stream Impact
-  Temporary Stream Impact
-  Permanent Wetland Impact
-  Temporary Wetland Impact
-  Proposed Project Limits

Impact Site S7 - SLE (intermittent)  
Permanent Impact due to Ford  
32 feet

Impact Site S8 - SLE (intermittent)  
Temporary Impact to Install Sewer  
42 feet

Impact Site S6 - SKC (intermittent)  
Temporary Impact to Install Sewer  
47 feet

Impact Site S5 - SKC (intermittent)  
Permanent Impact due to Ford  
15 feet

1



200 0 200 Feet

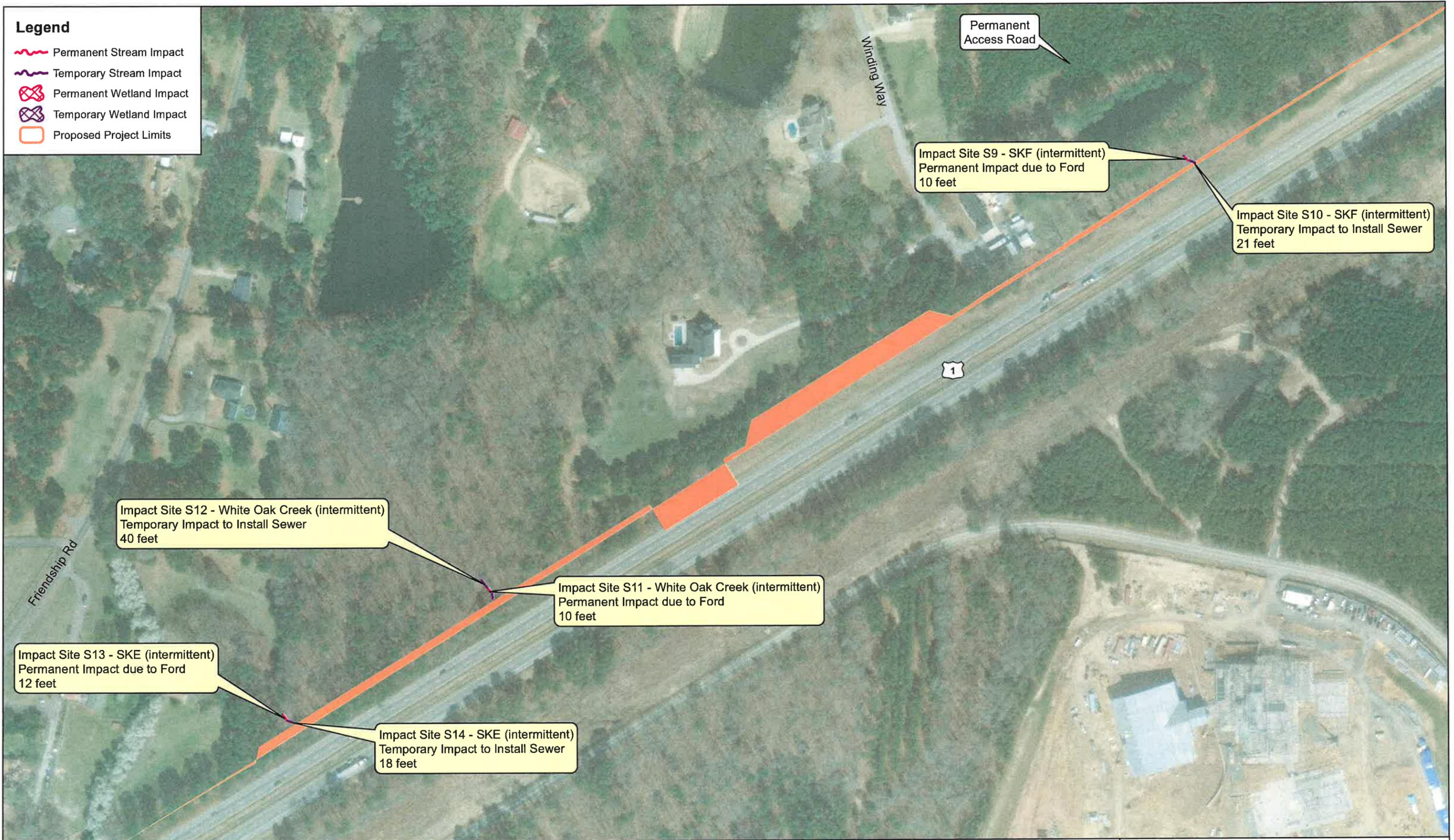
1 inch = 200 feet



**Impacts Map - Panel 2**  
Big Branch Pump Station and Force Main  
Town of Apex  
Apex, North Carolina

**Legend**

-  Permanent Stream Impact
-  Temporary Stream Impact
-  Permanent Wetland Impact
-  Temporary Wetland Impact
-  Proposed Project Limits



Permanent Access Road

Impact Site S9 - SKF (intermittent)  
Permanent Impact due to Ford  
10 feet

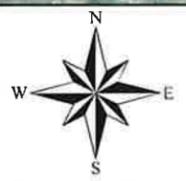
Impact Site S10 - SKF (intermittent)  
Temporary Impact to Install Sewer  
21 feet

Impact Site S12 - White Oak Creek (intermittent)  
Temporary Impact to Install Sewer  
40 feet

Impact Site S11 - White Oak Creek (intermittent)  
Permanent Impact due to Ford  
10 feet

Impact Site S13 - SKE (intermittent)  
Permanent Impact due to Ford  
12 feet

Impact Site S14 - SKE (intermittent)  
Temporary Impact to Install Sewer  
18 feet



200 0 200 Feet

1 inch = 200 feet



**Impacts Map - Panel 3**  
Big Branch Pump Station and Force Main  
Town of Apex  
Apex, North Carolina

**Legend**

-  Permanent Stream Impact
-  Temporary Stream Impact
-  Permanent Wetland Impact
-  Temporary Wetland Impact
-  Proposed Project Limits



Impact Site W2 - WLB (forested)  
Temporary Impact to Install Sewer  
0.014 acre / 619 sf

Impact Site S16 - SLC (intermittent)  
Temporary Impact to Install Sewer  
44 feet

Impact Site W1 - WLB (forested)  
Permanent Impact for Permanent Access  
0.010 acre / 439 sf of stone fill at grade

Impact Site S15 - SLC (intermittent)  
Permanent Impact due to Ford  
18 feet

Impact Site S18 - Little White Oak Creek (perennial)  
Temporary Impact to Install Sewer  
53 feet

Impact Site S17 - Little White Oak Creek (perennial)  
Permanent Impact due to Ford  
13 feet



1 inch = 200 feet



**Impacts Map - Panel 4**  
Big Branch Pump Station and Force Main  
Town of Apex  
Apex, North Carolina

**Legend**

-  Permanent Stream Impact
-  Temporary Stream Impact
-  Permanent Wetland Impact
-  Temporary Wetland Impact
-  Proposed Project Limits



1 inch = 200 feet



**Impacts Map - Panel 5**  
Big Branch Pump Station and Force Main  
Town of Apex  
Apex, North Carolina

**Legend**

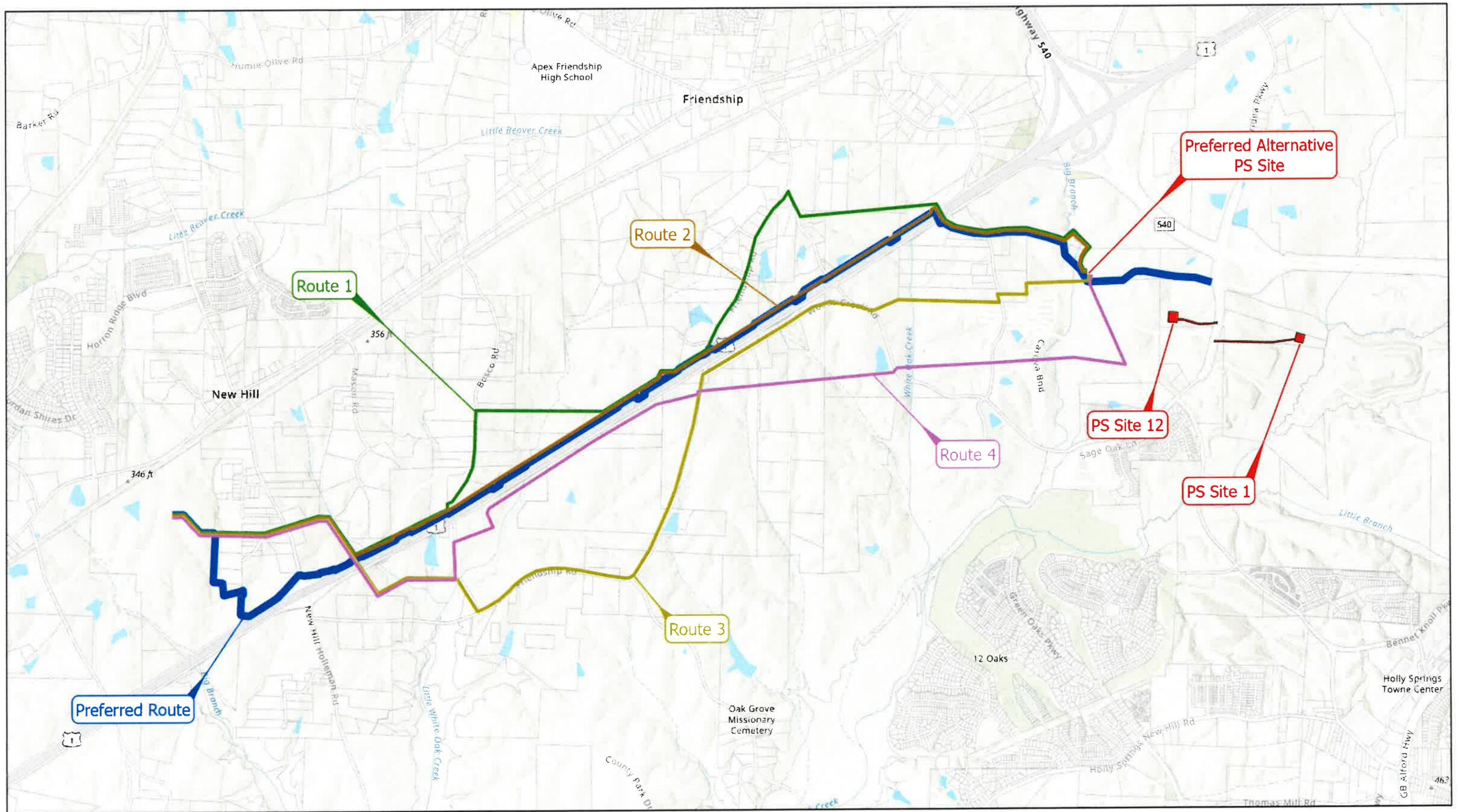
-  Permanent Stream Impact
-  Temporary Stream Impact
-  Permanent Wetland Impact
-  Temporary Wetland Impact
-  Proposed Project Limits




1 inch = 200 feet



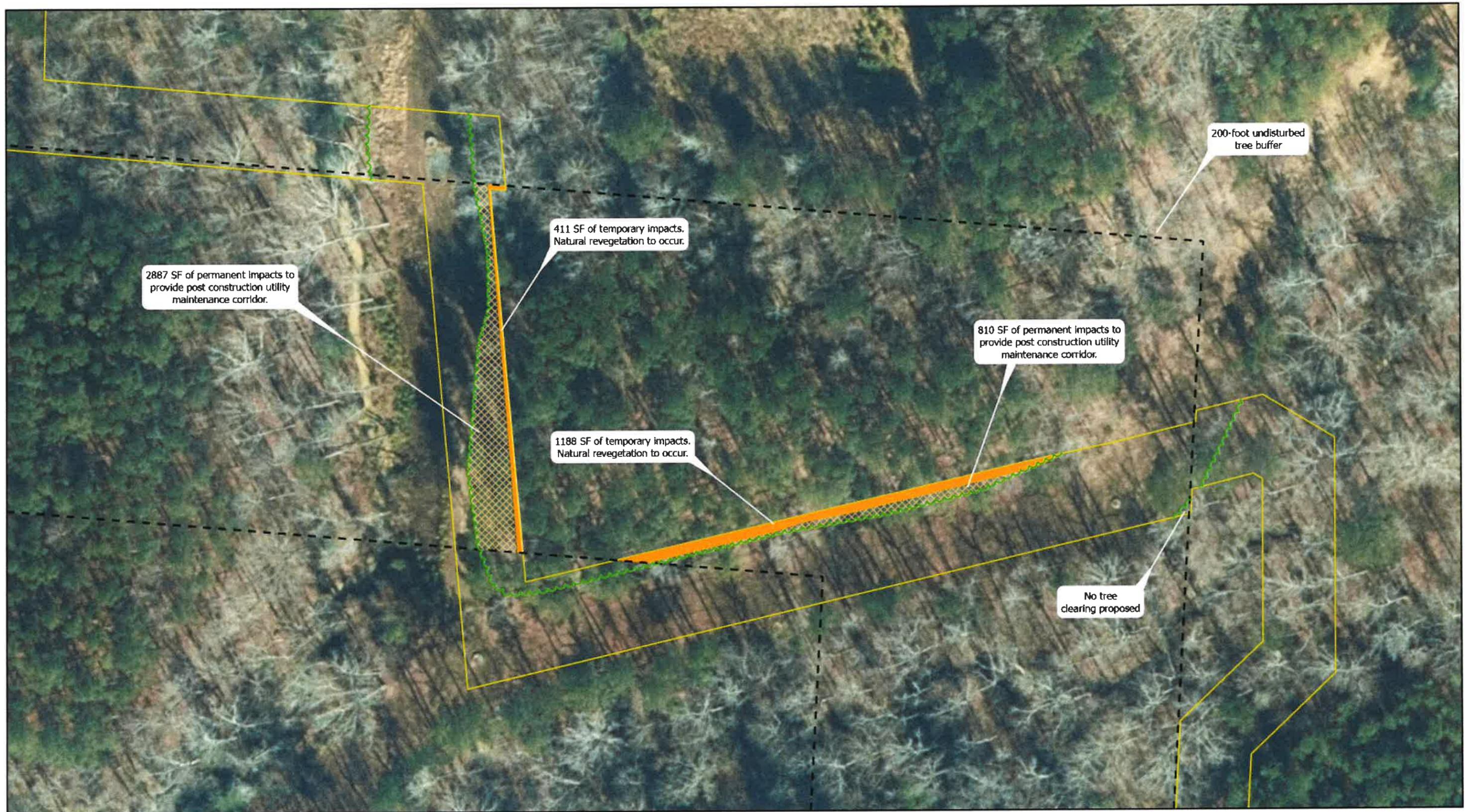
**Impacts Map - Panel 6**  
 Big Branch Pump Station and Force Main  
 Town of Apex  
 Apex, North Carolina



1 inch equals 2,000 feet



**Big Branch Force Main  
and Pump Station Alternatives**  
Big Branch Pump Station and Force Main  
Town of Apex  
Apex, North Carolina

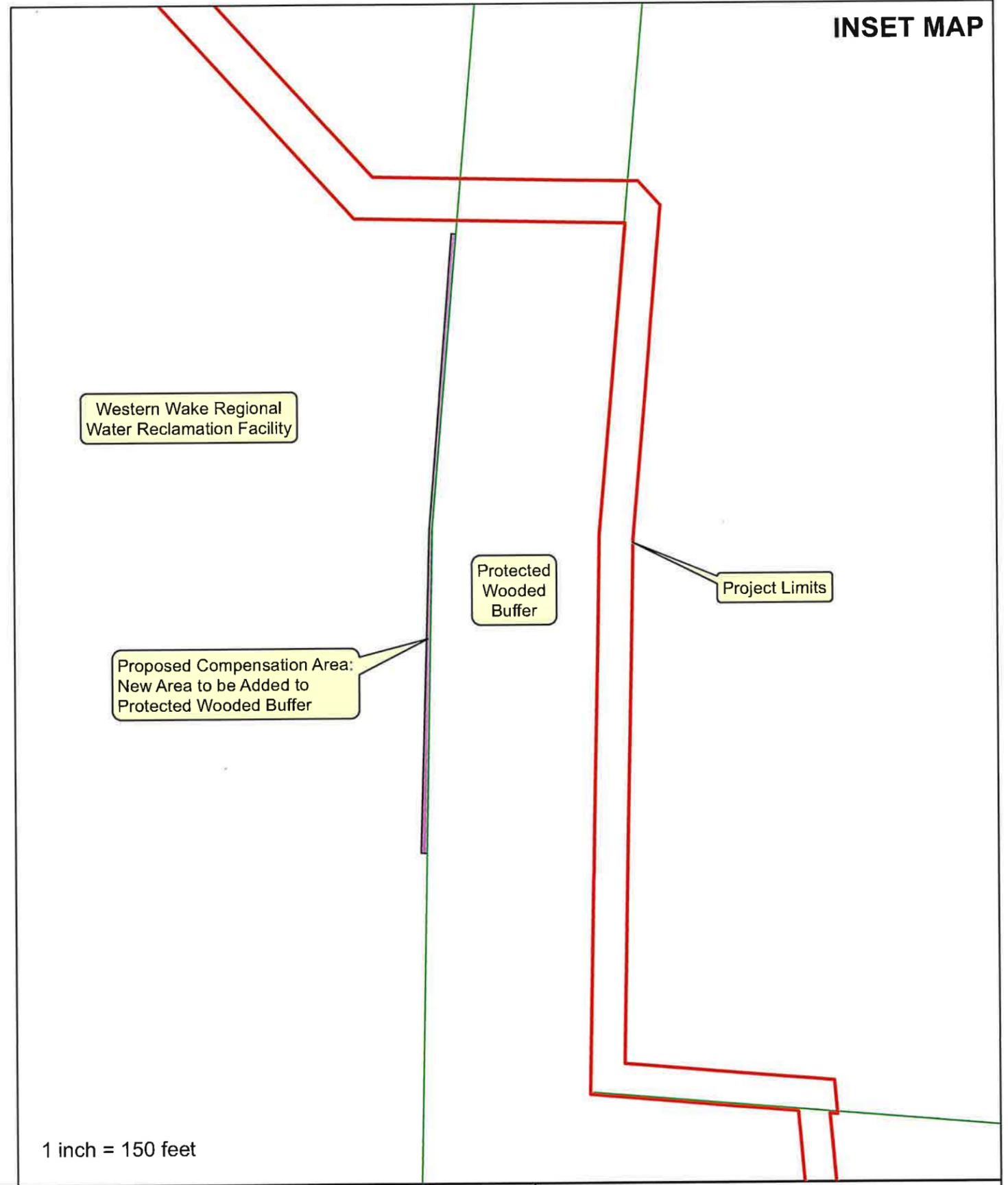


1 inch equals 50 feet



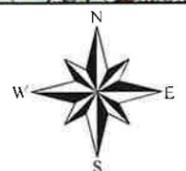
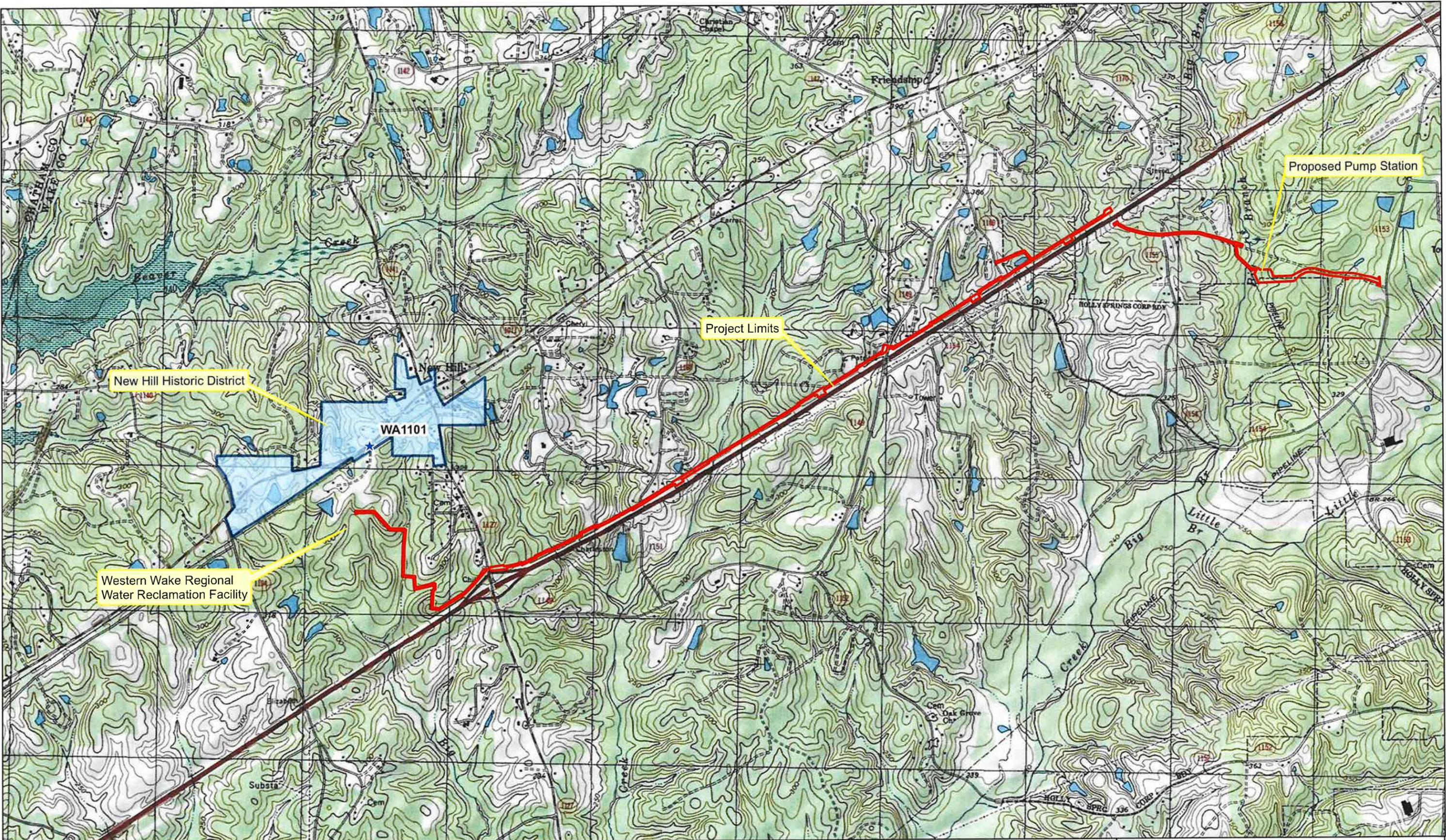
**Hazen**

**WWRWF Buffer Impacts**  
 Big Branch Pump Station and Force Main  
 Town of Apex  
 Apex, North Carolina



**Hazen**

**WWRWRF Buffer Mitigation Map**  
Big Branch Pump Station and Force Main  
Town of Apex  
Apex, North Carolina



2,000 0 2,000 Feet

1 inch = 2,000 feet



**Hazen**

**Historic Resources Map**  
 Big Branch Pump Station and Force Main  
 Town of Apex  
 Apex, North Carolina