

- Project Features**
- Site Boundary
  - Proposed Route
  - Route Centerline
  - Proposed Route
  - Mileposts
  - Mile
- Transportation**
- Interstates or Highways
- Other Waters**
- NANS Streams (NHD)
- Other Symbols**
- Tenth-mile

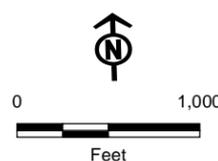
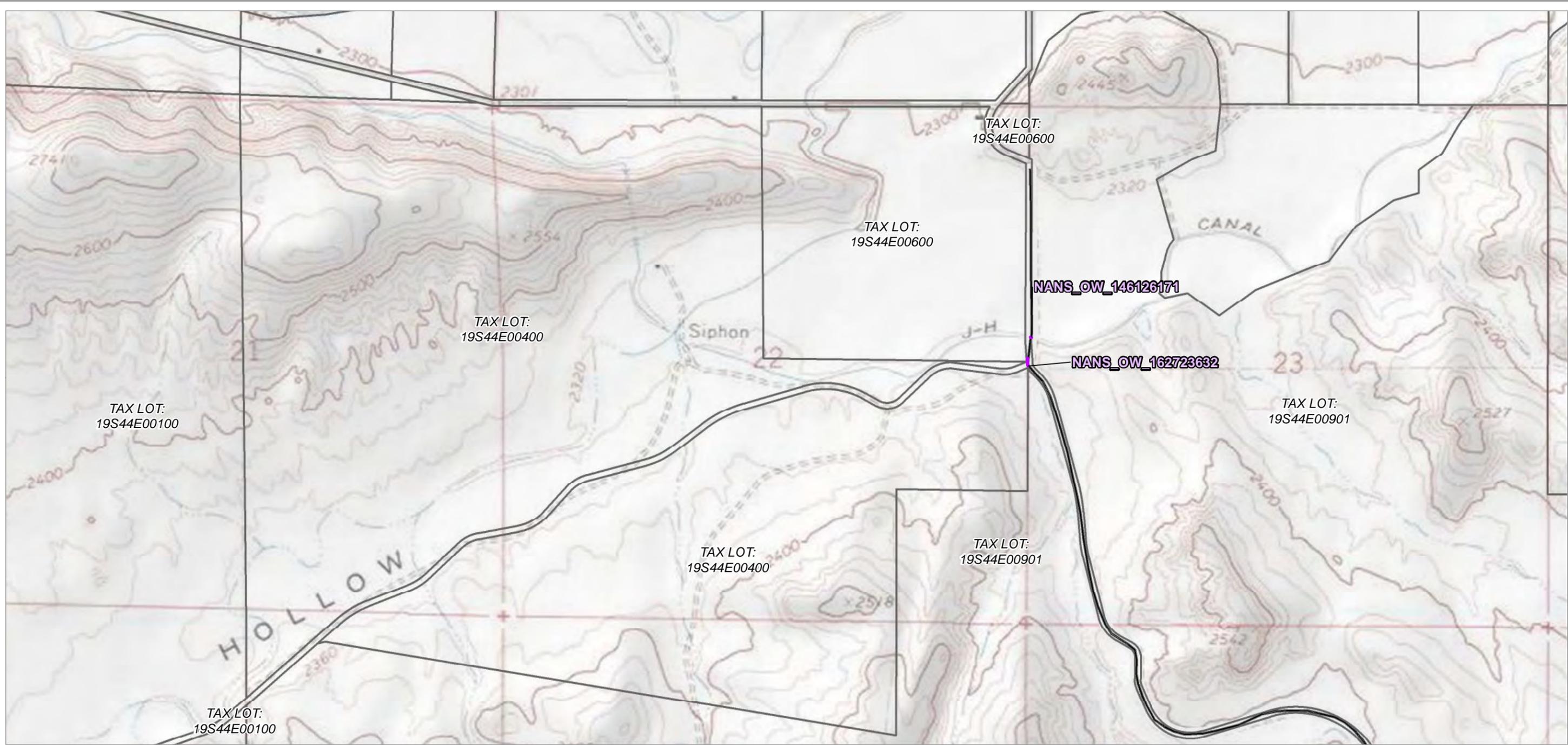
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Transmission Line Project  
Application for Site Certificate

**Appendix C-135**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Other Waters
  - NANS Streams (NHD)

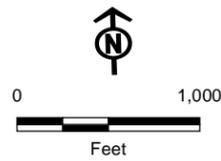
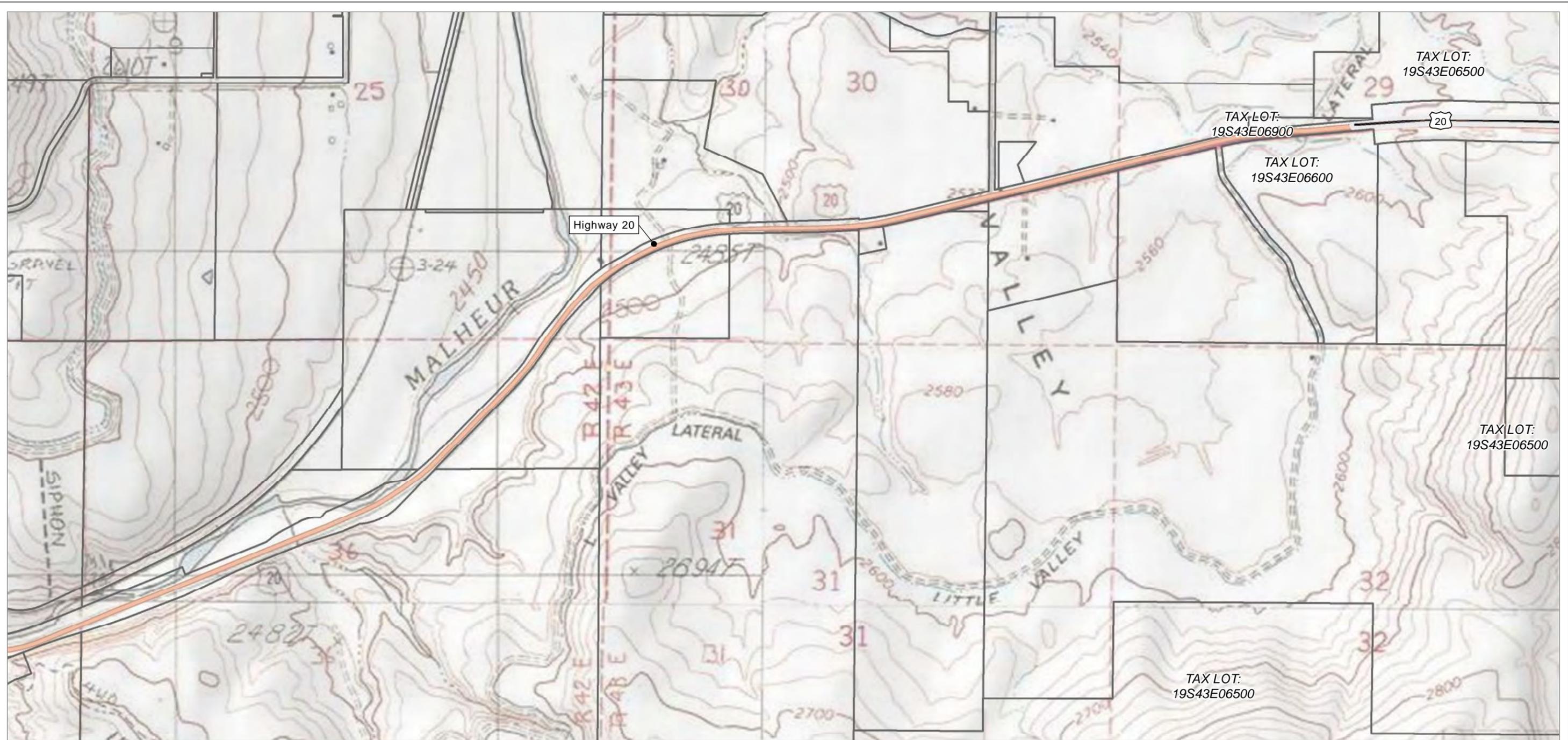
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Transmission Line Project  
Application for Site Certificate

**Appendix C-136**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**  
**Transportation**  
— Interstates or Highways

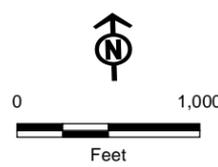
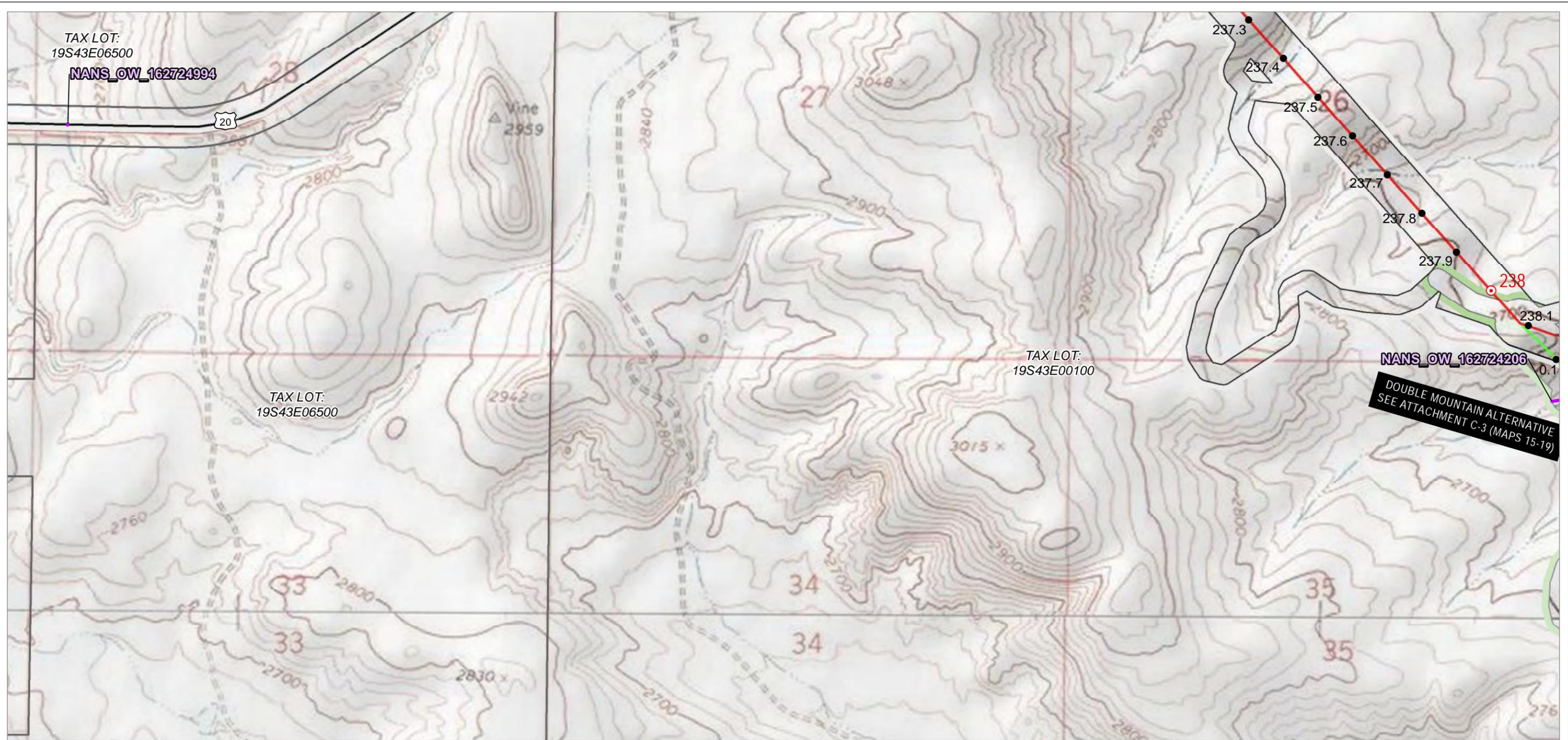


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**Appendix C-137**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
 Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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**Project Features**

- Site Boundary
- Proposed Route
- Alternative Route
- Route Centerline
- Proposed Route
- Alternative

- Mileposts
- Mile
- Tenth-mile

- Transportation**
- Interstates or Highways

**Other Waters**

- NANS Streams (NHD)

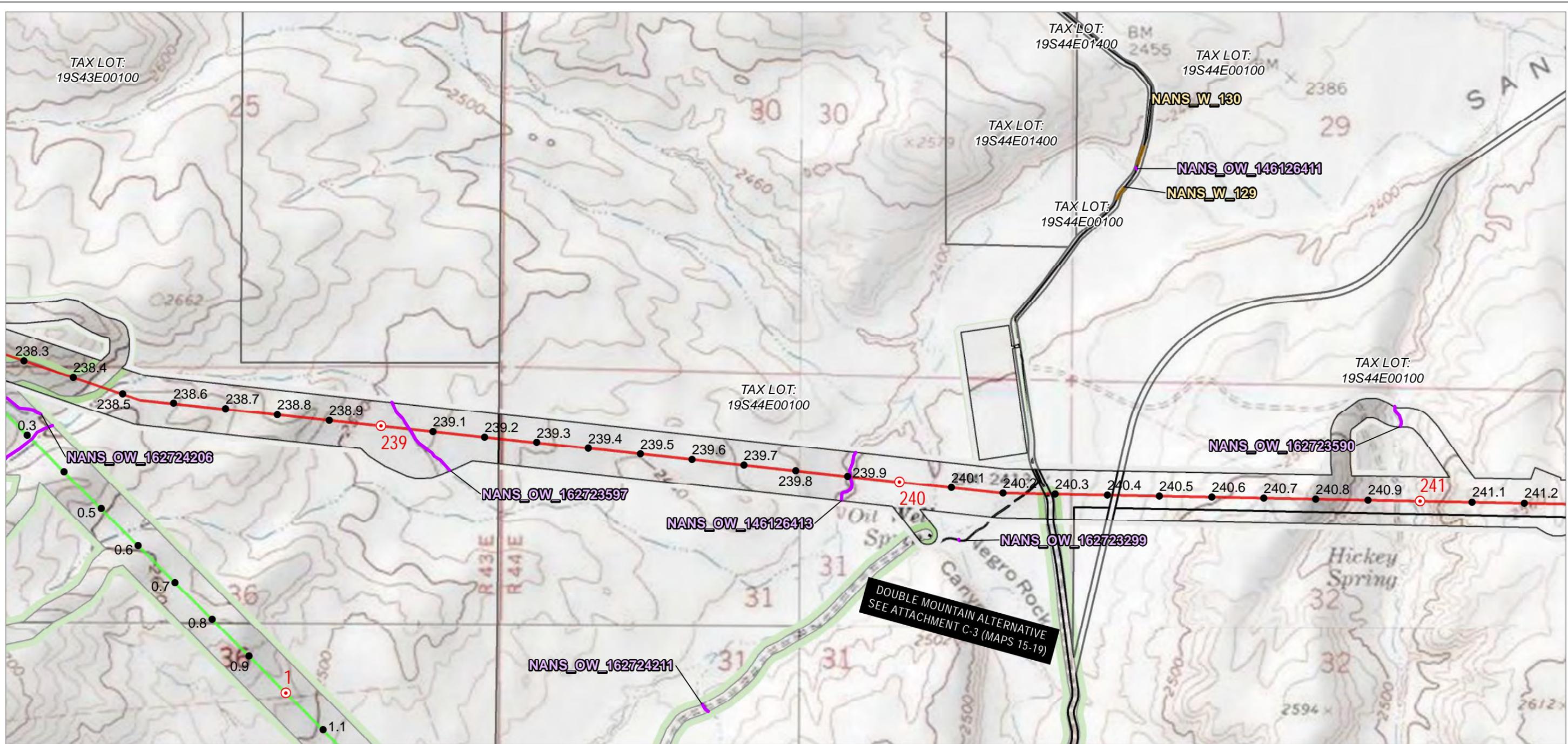


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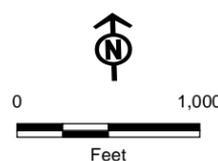
**Appendix C-138**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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**DOUBLE MOUNTAIN ALTERNATIVE  
SEE ATTACHMENT C-3 (MAPS 15-19)**



- Project Features**
- Site Boundary
  - Proposed Route
  - Alternative Route
  - Route Centerline
  - Proposed Route
  - Alternative
- Mileposts**
- Mile
  - Tenth-mile
- Other Waters**
- NANS Streams (NHD)
- Wetland**
- NANS Wetland (NWI)

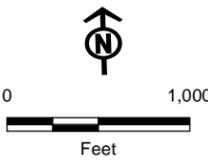
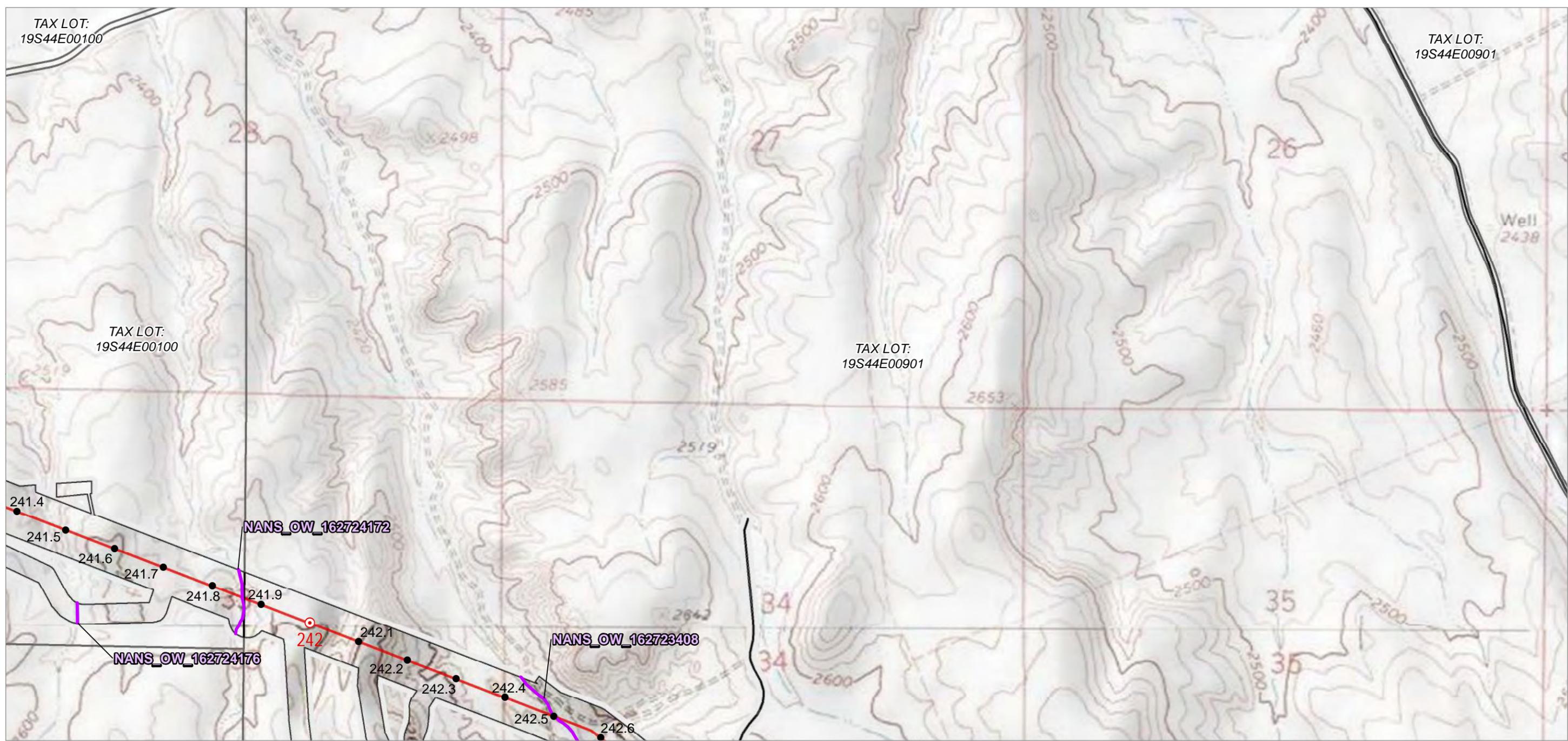
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Application for Site Certificate

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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**Appendix C-139**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County



- Project Features**
- Site Boundary
  - Proposed Route
  - Route Centerline
  - Proposed Route
  - Mileposts
  - Mile
- Other Waters**
- Tenth-mile
  - NANS Streams (NHD)

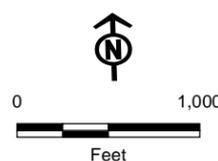
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**Appendix C-140**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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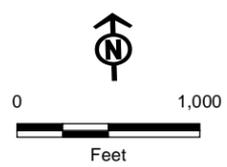
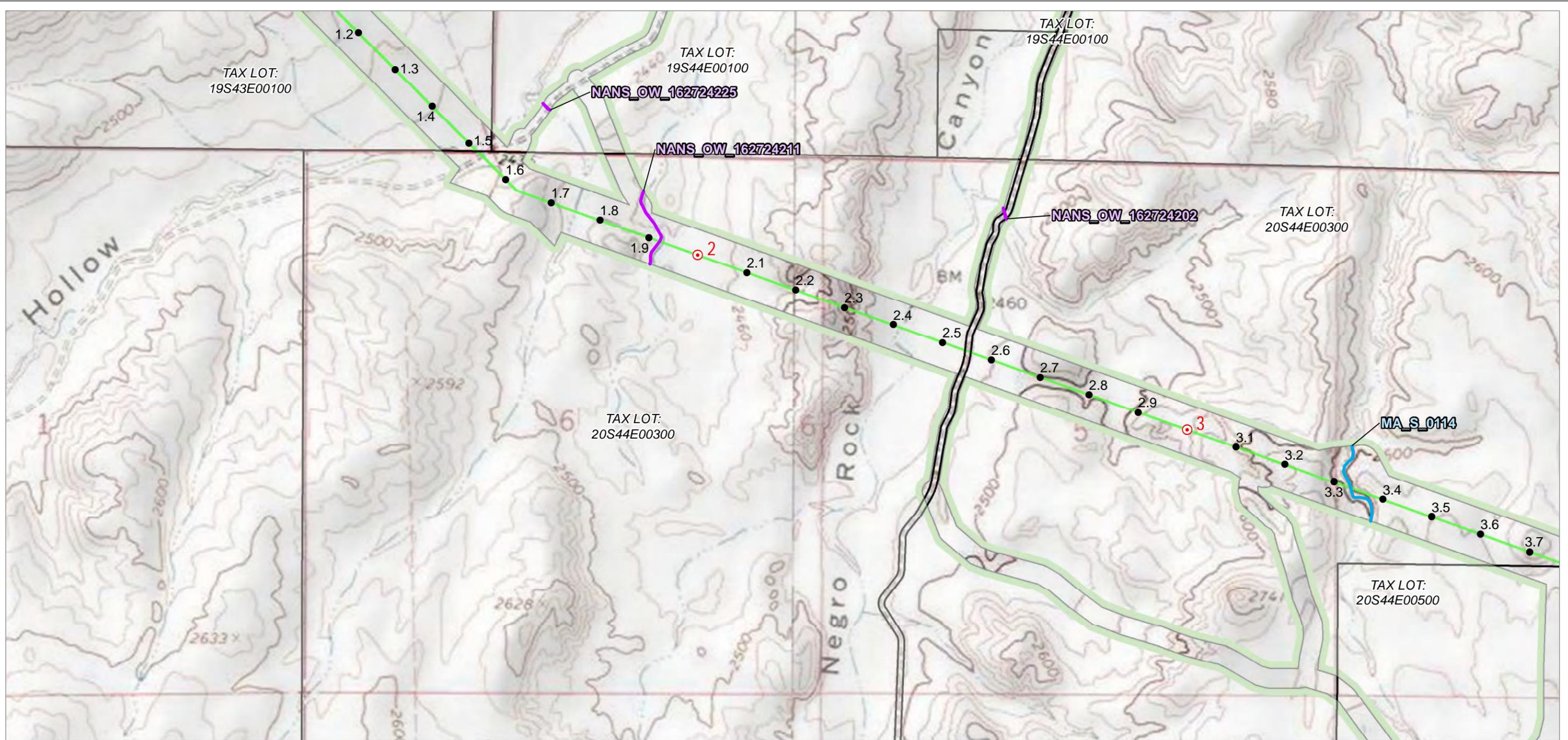
Project Features  
 Other Waters  
 NANS Streams (NHD)

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**Appendix C-141**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
 Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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**Map Area**

**Project Features**

- Site Boundary
- Alternative Route
- Route Centerline
- Alternative
- Mileposts
- Mile

- Tenth-mile
- Other Waters
- Field Survey Streams
- NANS Streams (NHD)

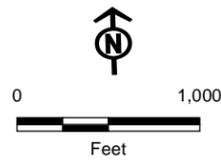
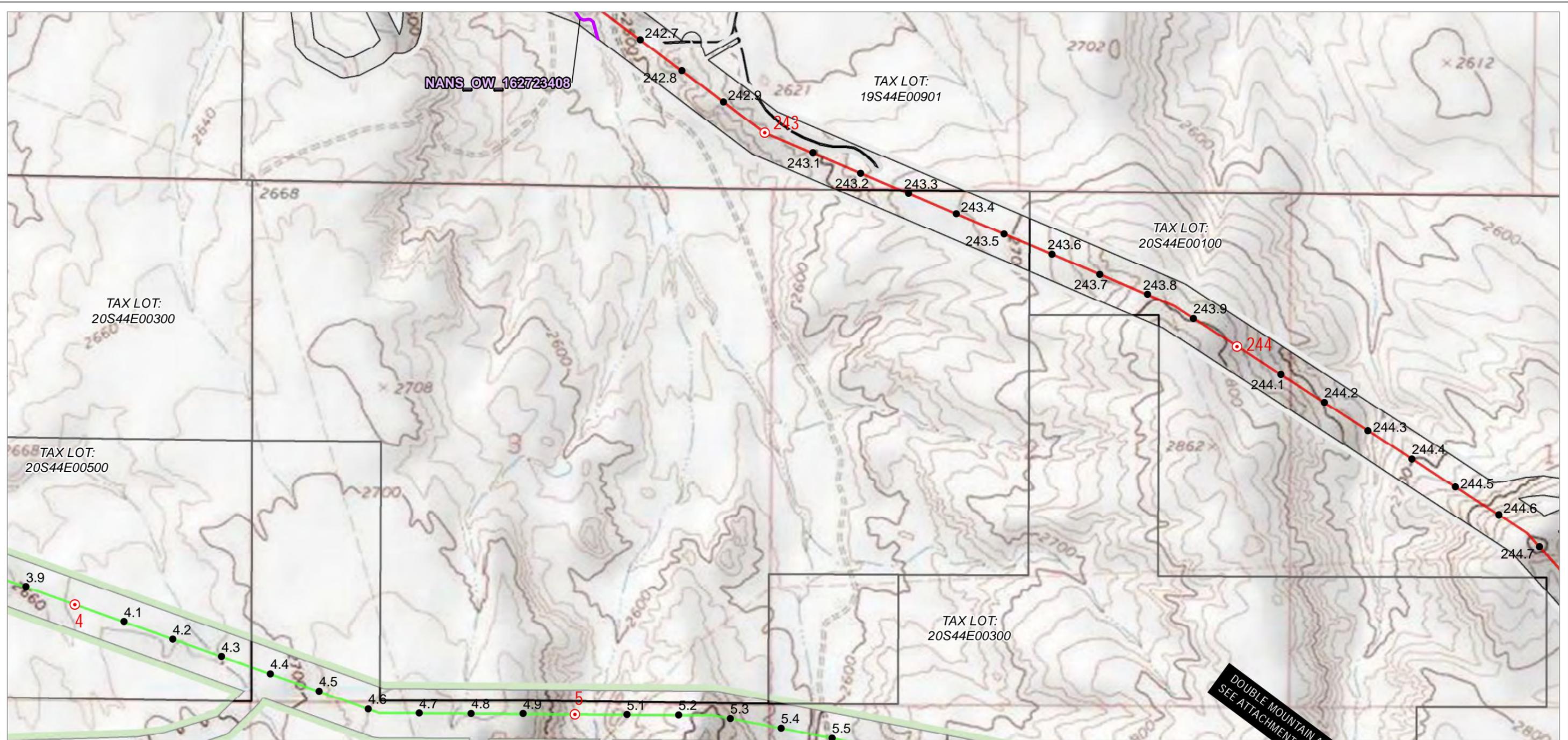


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Transmission Line Project  
Application for Site Certificate

**Appendix C-142**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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**Project Features**

- Site Boundary
- Proposed Route
- Alternative Route
- Route Centerline
- Proposed Route
- Alternative

- Mileposts
- Mile
- Tenth-mile

**Other Waters**

- NANS Streams (NHD)

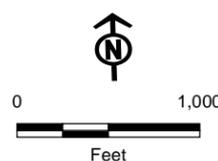
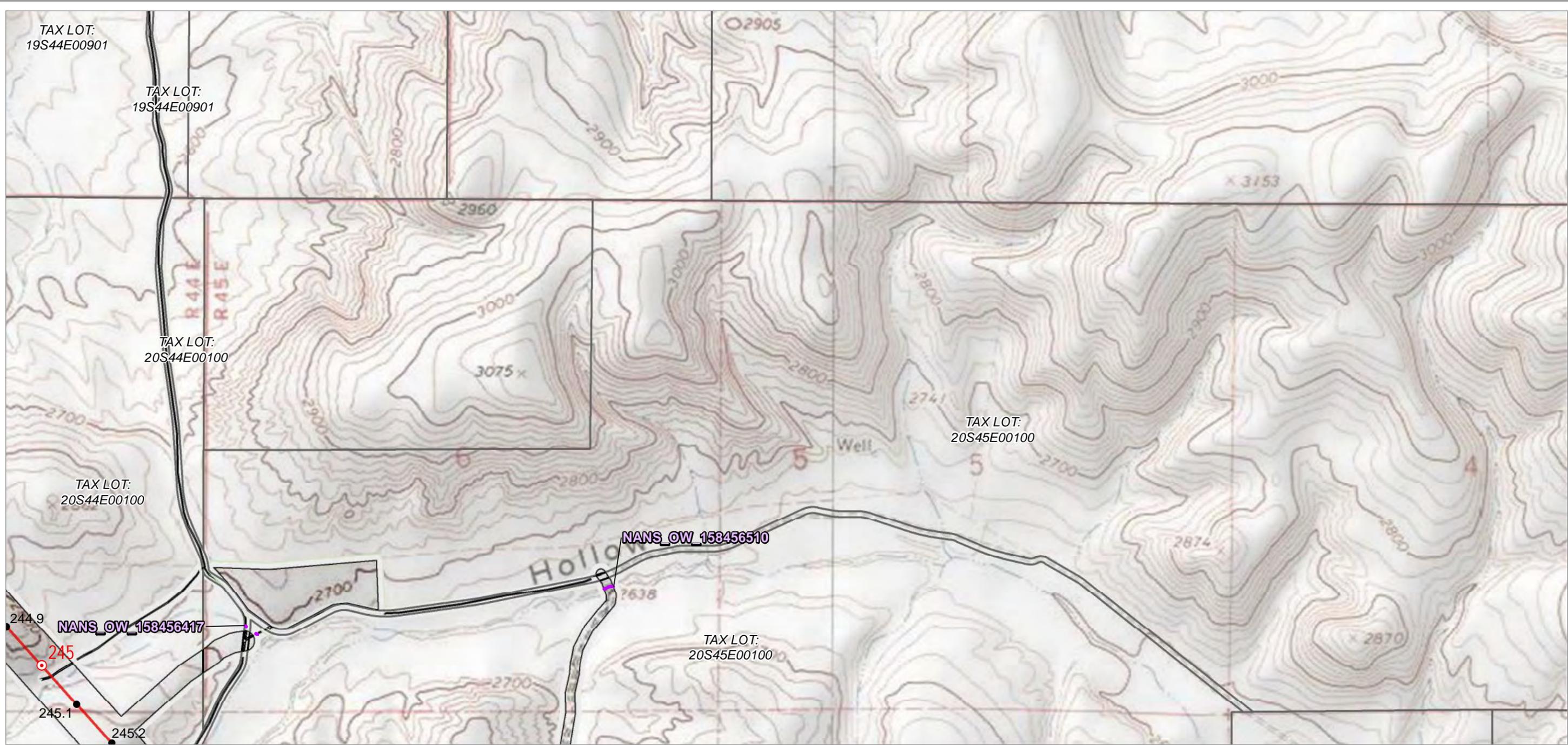
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Boardman to Hemingway  
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**Appendix C-143**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County



- Project Features**
- Site Boundary
  - Proposed Route
  - Alternative Route
  - Route Centerline
  - Proposed Route
- Mileposts**
- Mile
  - Tenth-mile
- Other Waters**
- NANS Streams (NHD)

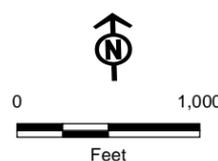
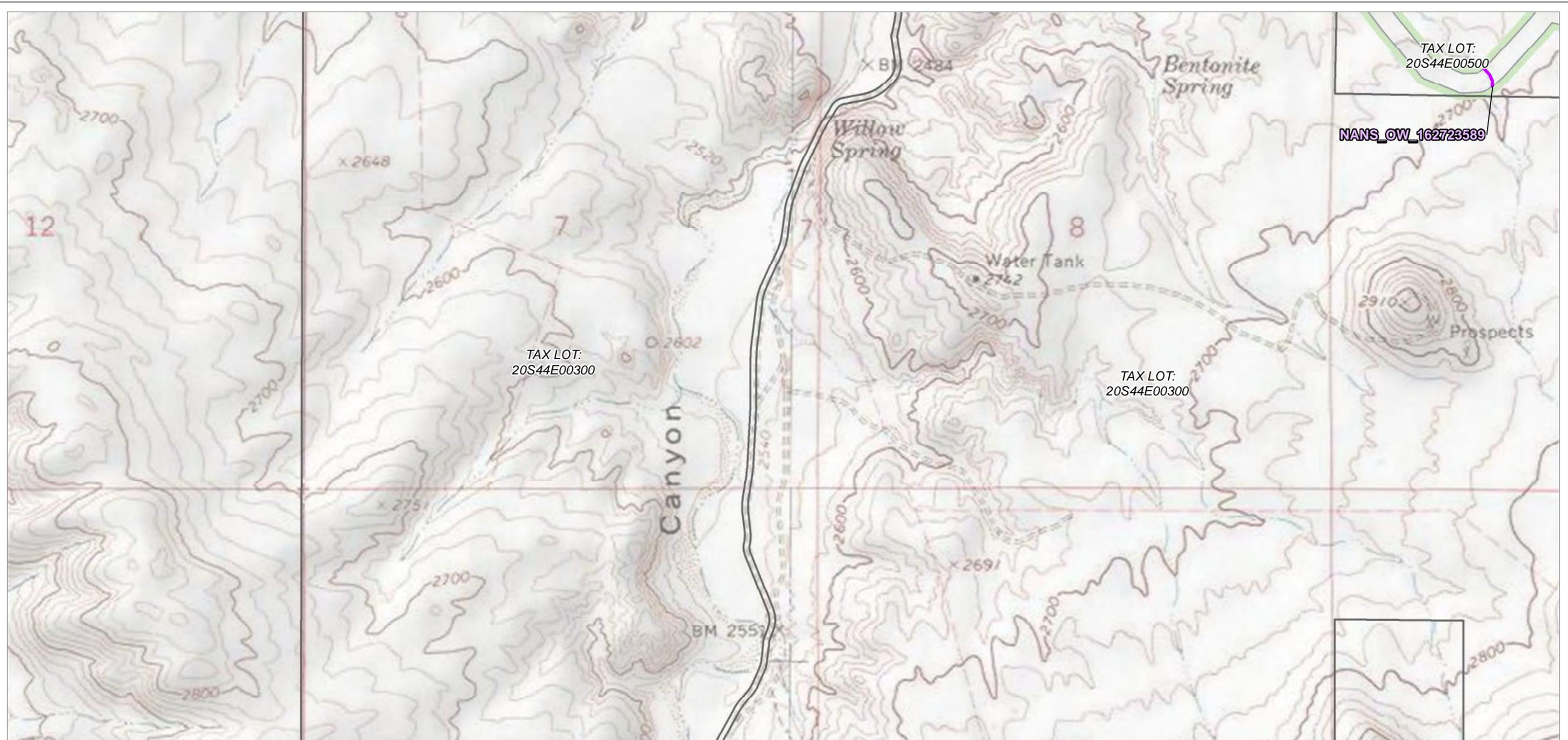
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**Appendix C-144**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
  - Alternative Route
- Other Waters**
- NANS Streams (NHD)

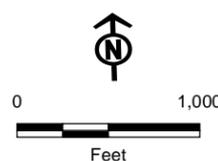
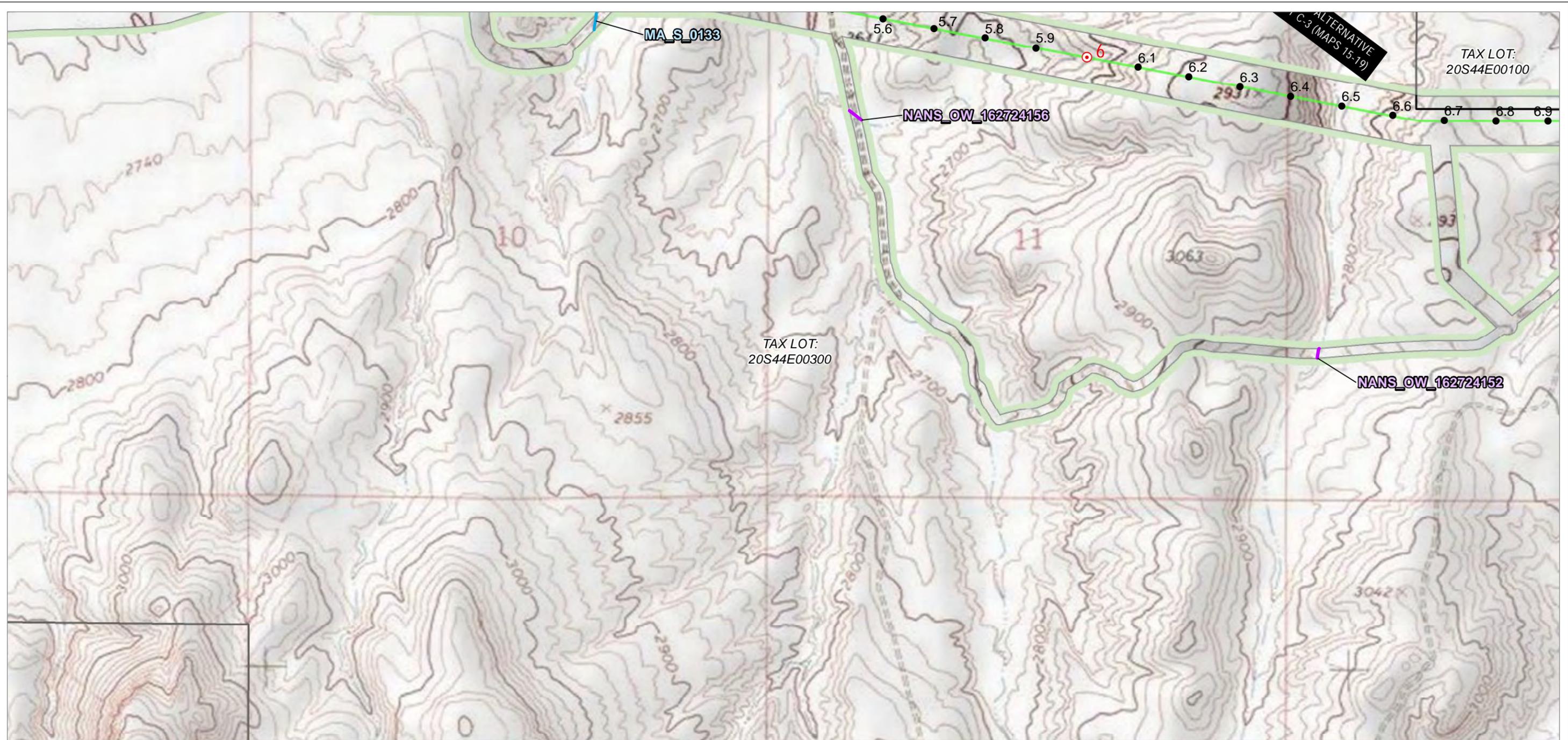
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**Appendix C-145**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
  - Alternative Route
  - Route Centerline
  - Alternative
  - Mileposts
  - Mile
- Other Waters**
- Tenth-mile
  - Field Survey Streams
  - NANS Streams (NHD)

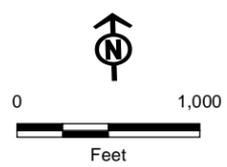
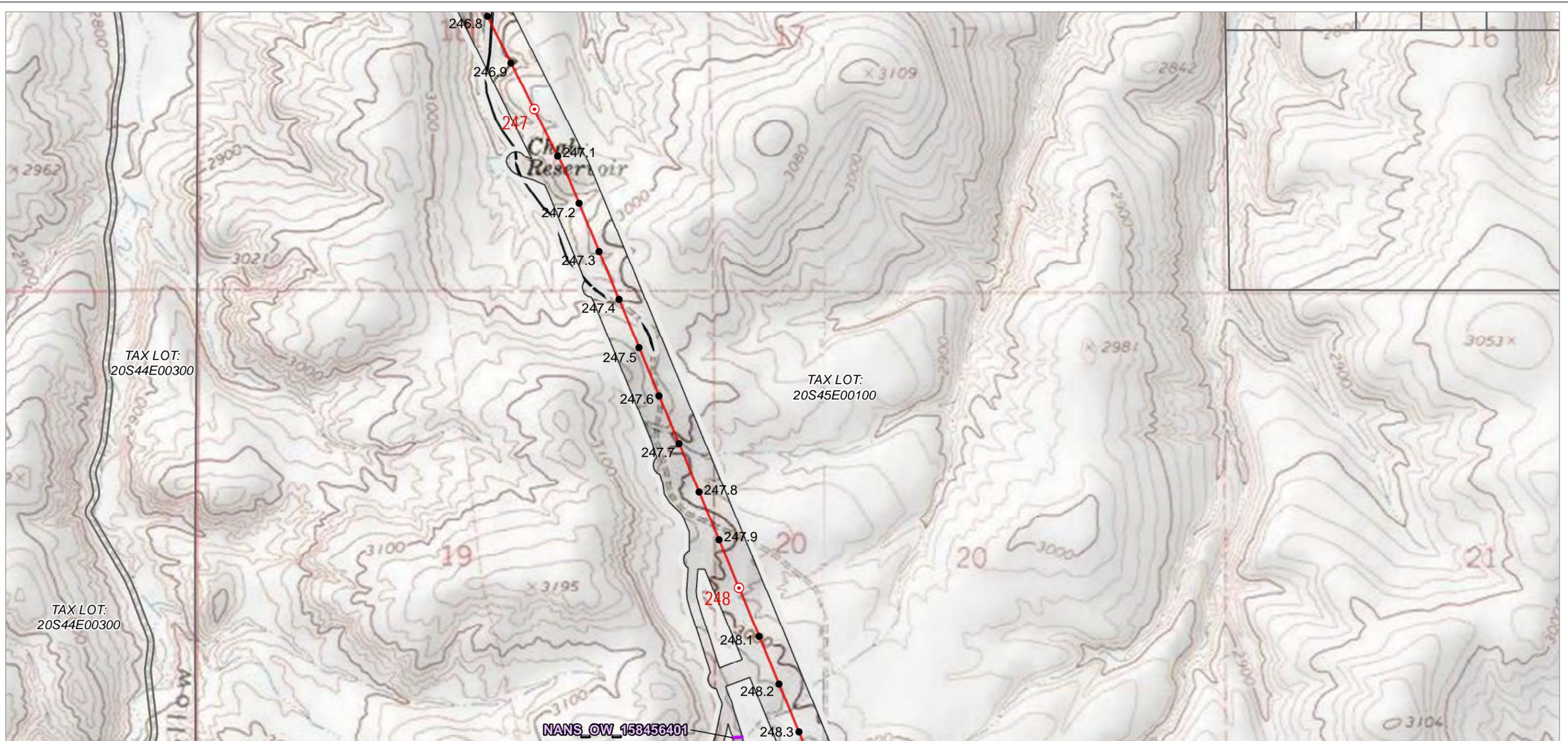
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Application for Site Certificate

**Appendix C-146**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
  - Proposed Route
  - Route Centerline
  - Proposed Route
  - Mileposts
  - Mile
- Other Waters**
- Tenth-mile
  - NANS Streams (NHD)

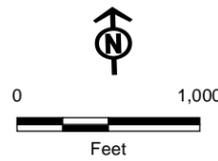
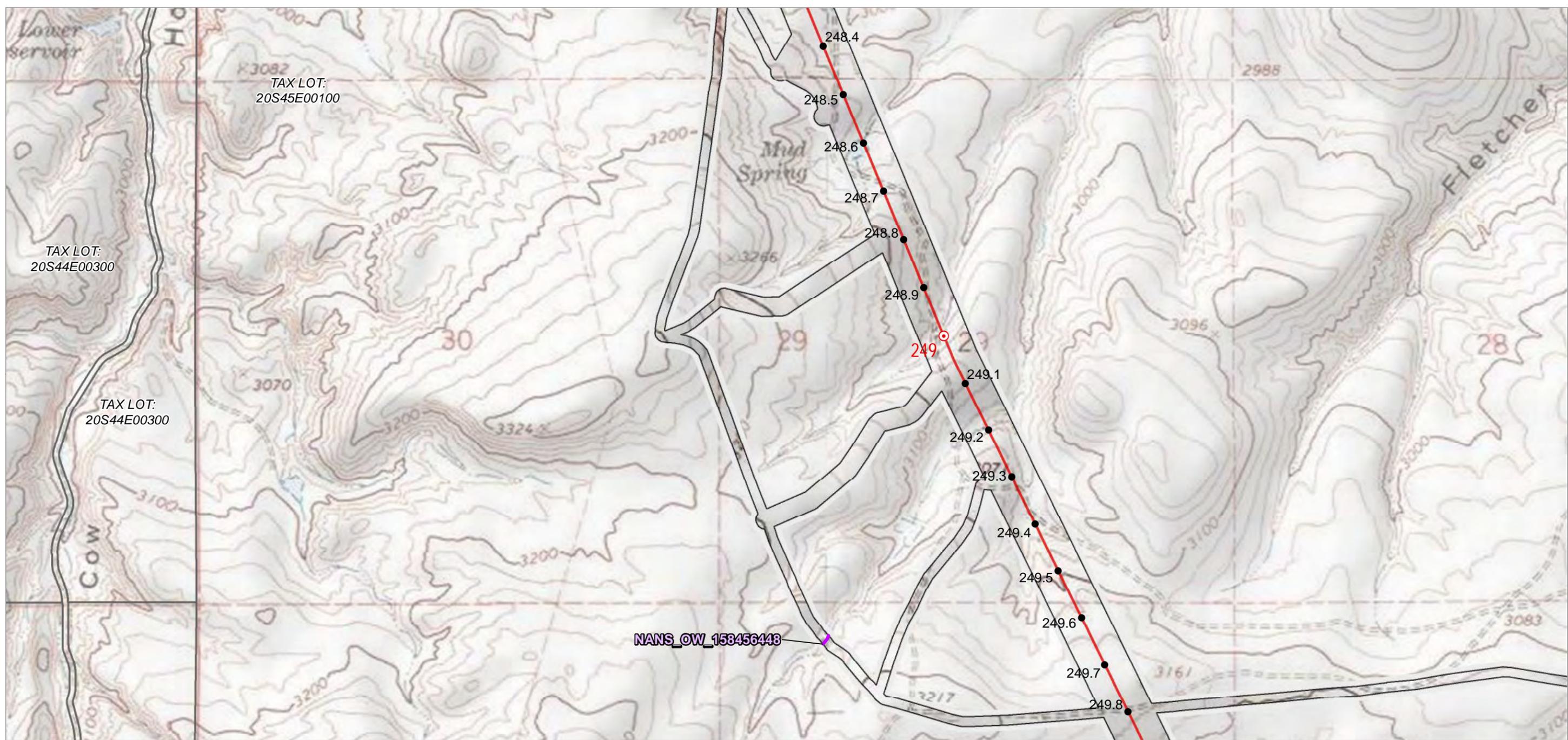
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Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Appendix C-147**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
  - Proposed Route
  - Route Centerline
  - Proposed Route
  - Mileposts
  - Mile
- Other Waters**
- Tenth-mile
  - NANS Streams (NHD)

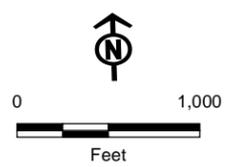
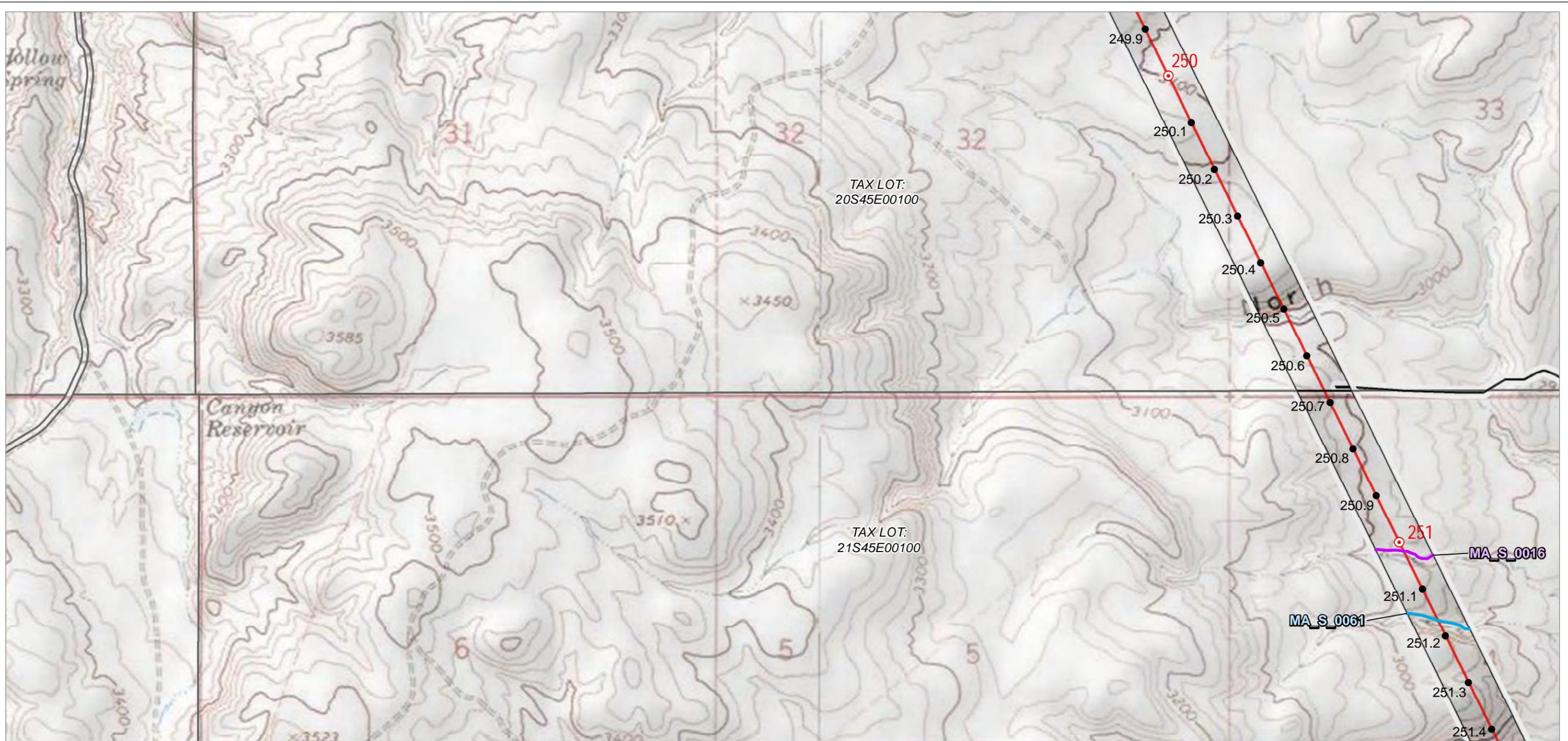


Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Appendix C-148**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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**Map Area**

- Project Features**
- Site Boundary
  - Proposed Route
  - Route Centerline
  - Proposed Route
  - Mileposts
  - Mile
- Other Waters**
- Tenth-mile
  - Field Survey Streams
  - NANS Streams (NHD)

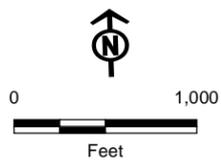
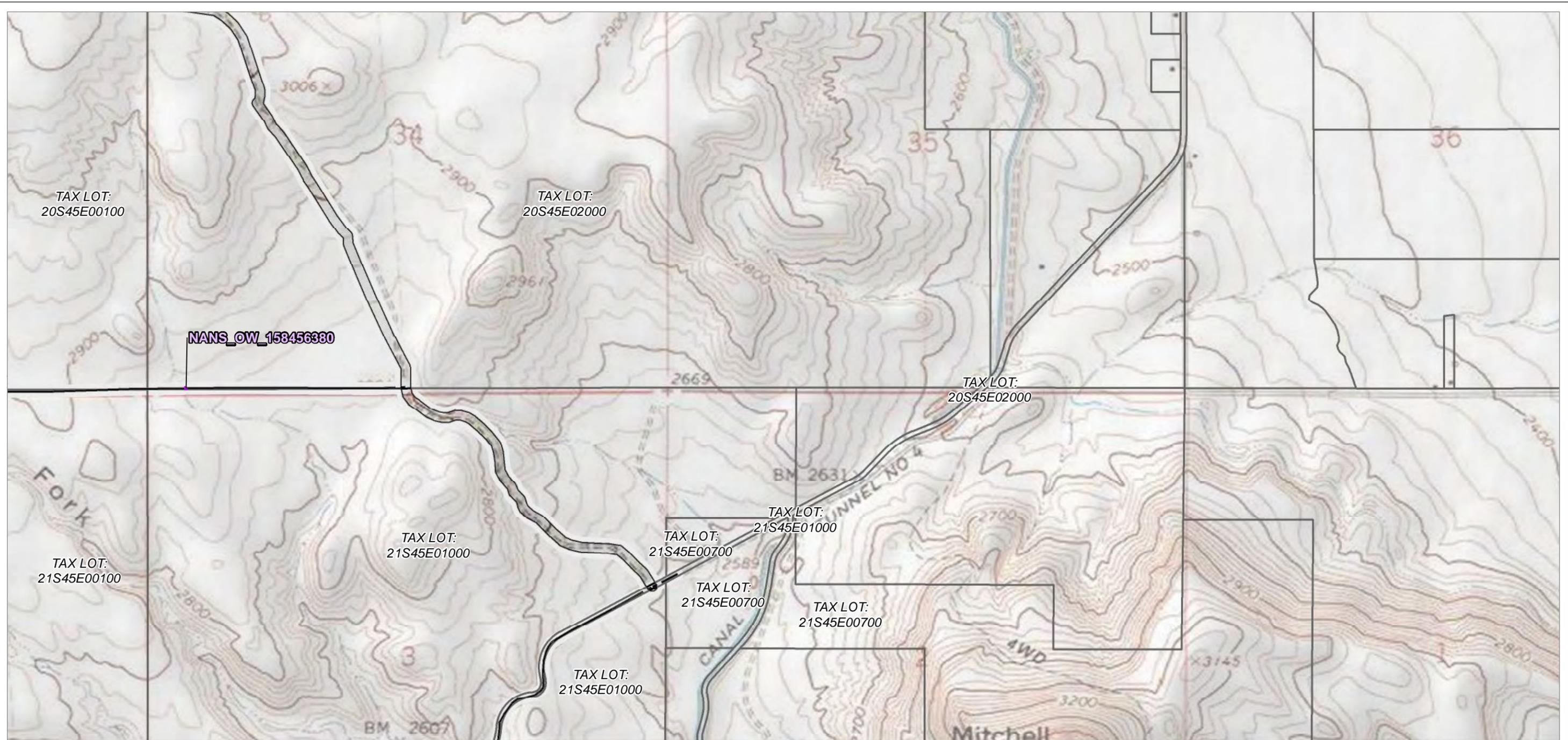
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Transmission Line Project  
Application for Site Certificate

**Appendix C-149**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
**Malheur County**

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
  - Proposed Route
- Other Waters**
- NANS Streams (NHD)

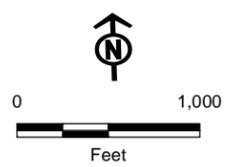
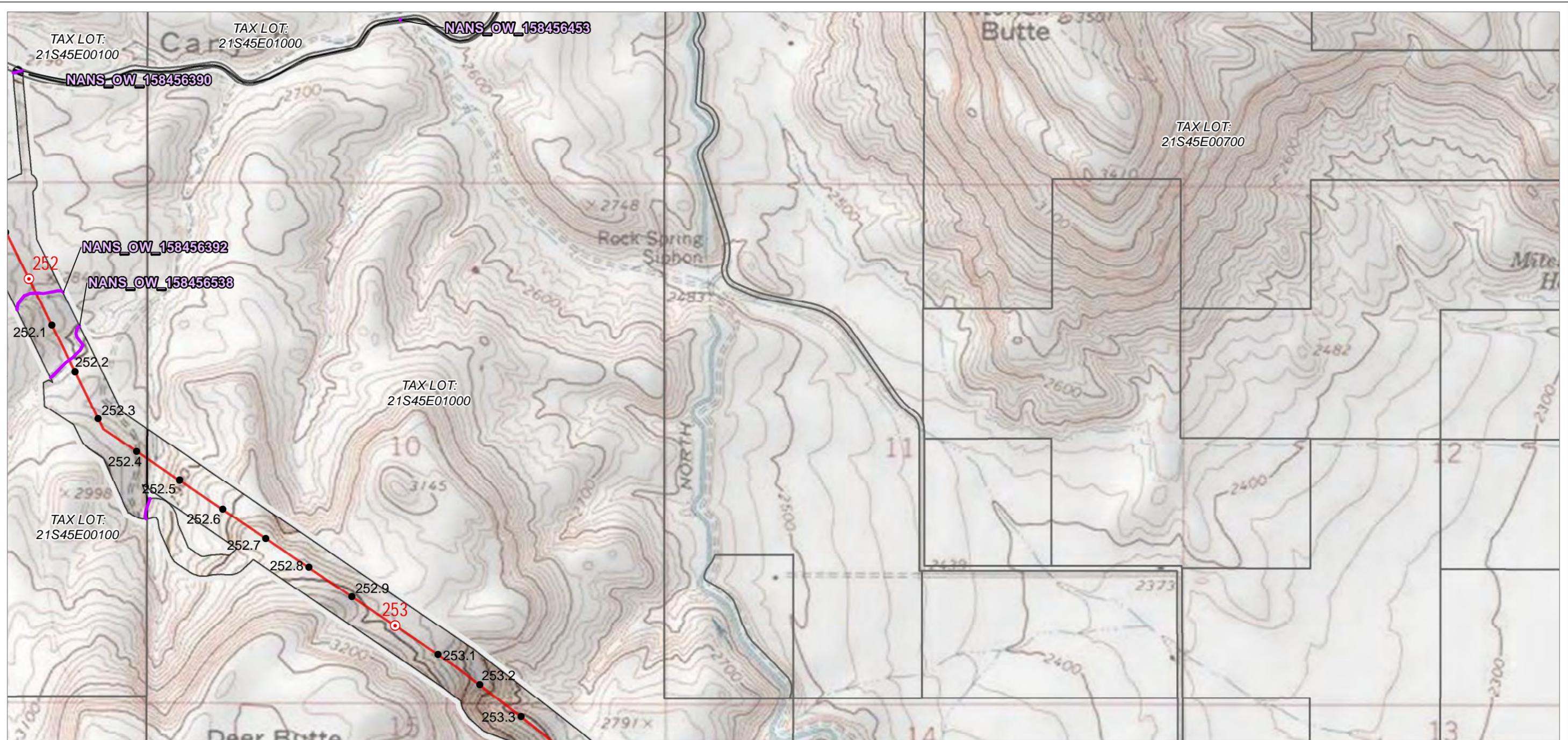


Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Appendix C-150**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
**Malheur County**

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
  - Proposed Route
  - Route Centerline
  - Proposed Route
  - Mileposts
  - Mile
- Other Waters**
- Tenth-mile
  - NANS Streams (NHD)

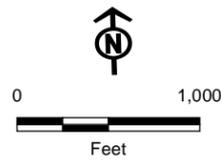
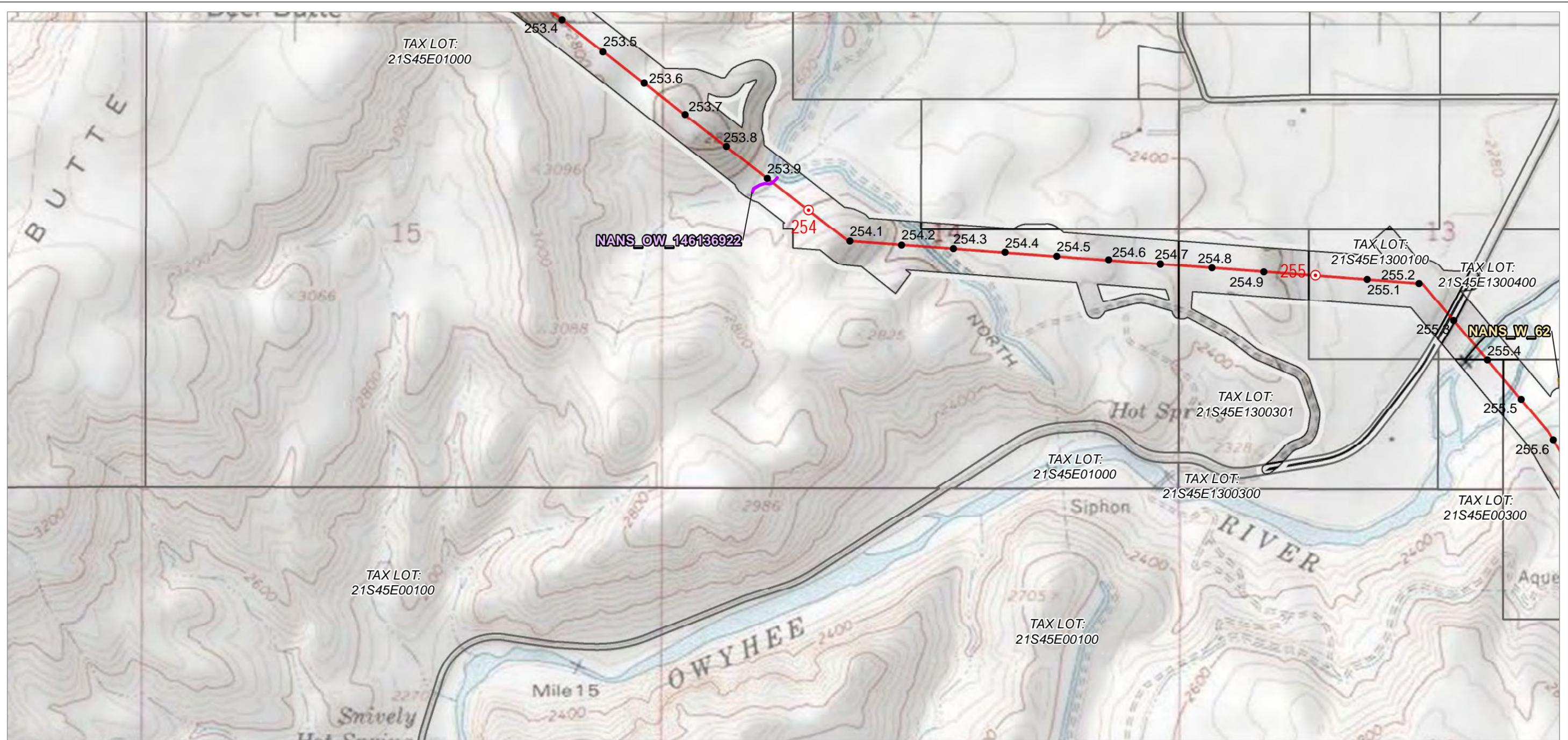
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Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Appendix C-151**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Mileposts
- Mile

- Tenth-mile
- Other Waters**
- NANS Streams (NHD)
- Wetland**
- NANS Wetland (NWI)

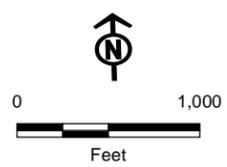
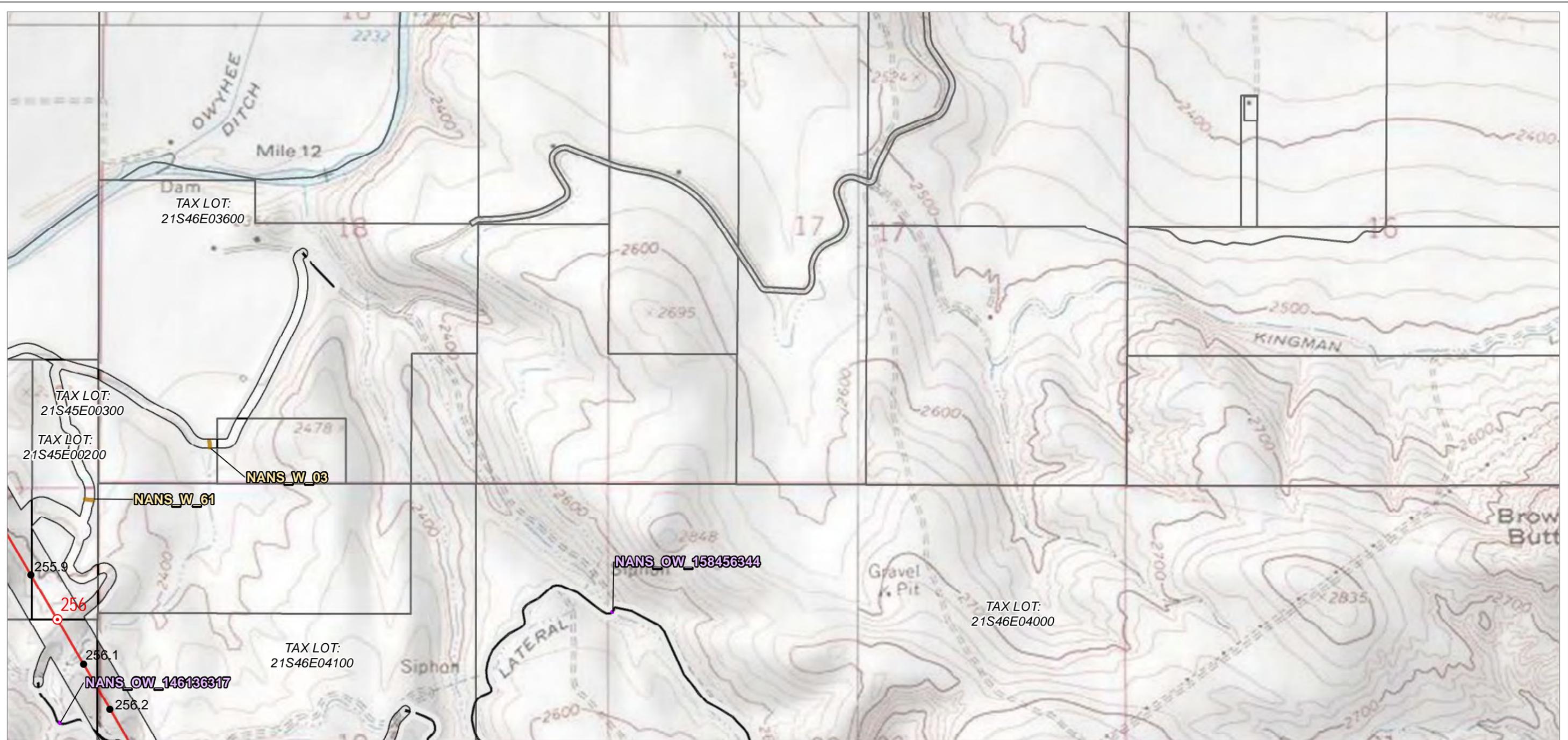


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Application for Site Certificate

**Appendix C-152**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Mileposts
- Mile

- Tenth-mile
- Other Waters**
- NANS Streams (NHD)
- Wetland**
- NANS Wetland (NWI)

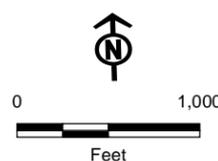
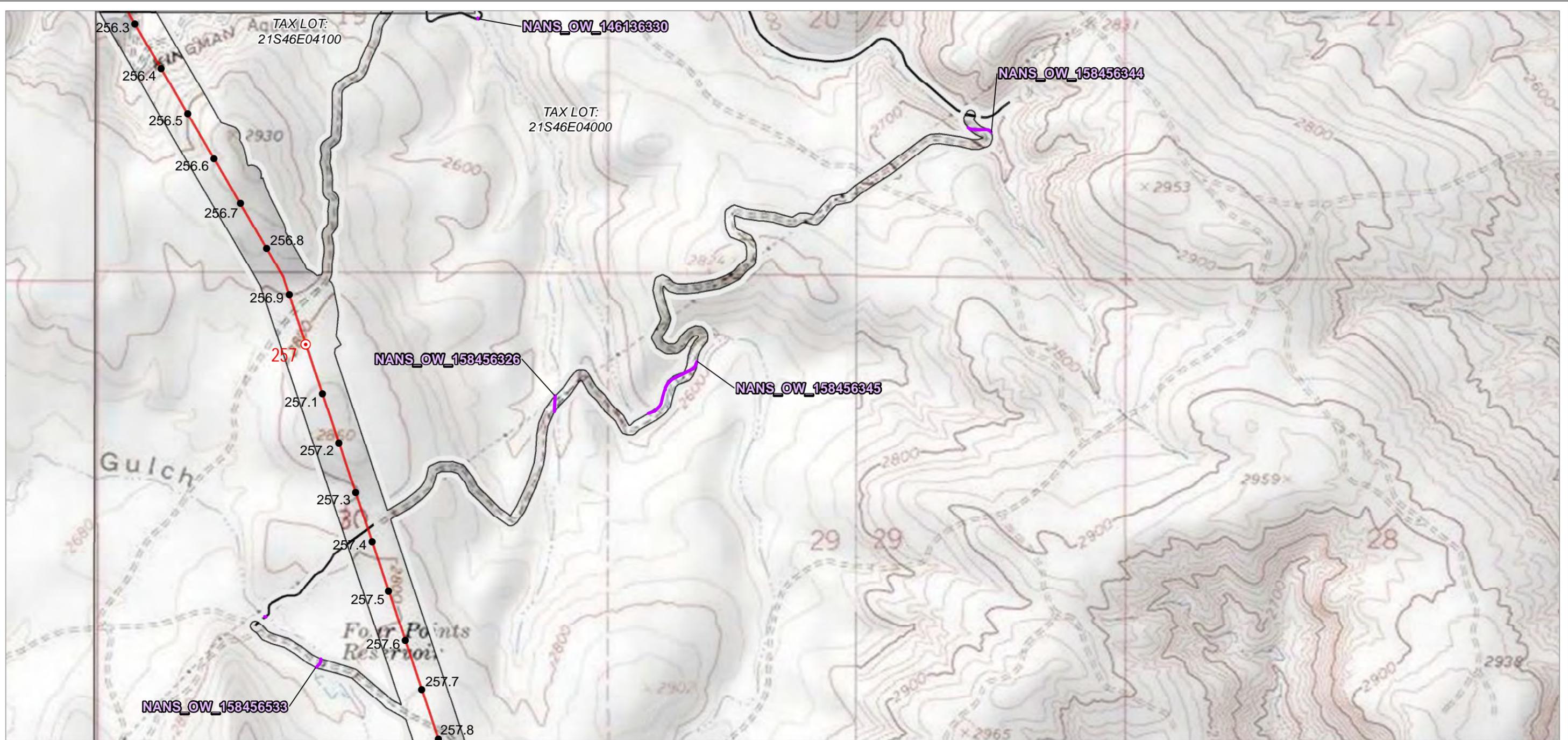


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**Appendix C-153**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
  - Proposed Route
  - Route Centerline
  - Proposed Route
  - Mileposts
  - Mile
- Other Waters**
- Tenth-mile
  - NANS Streams (NHD)

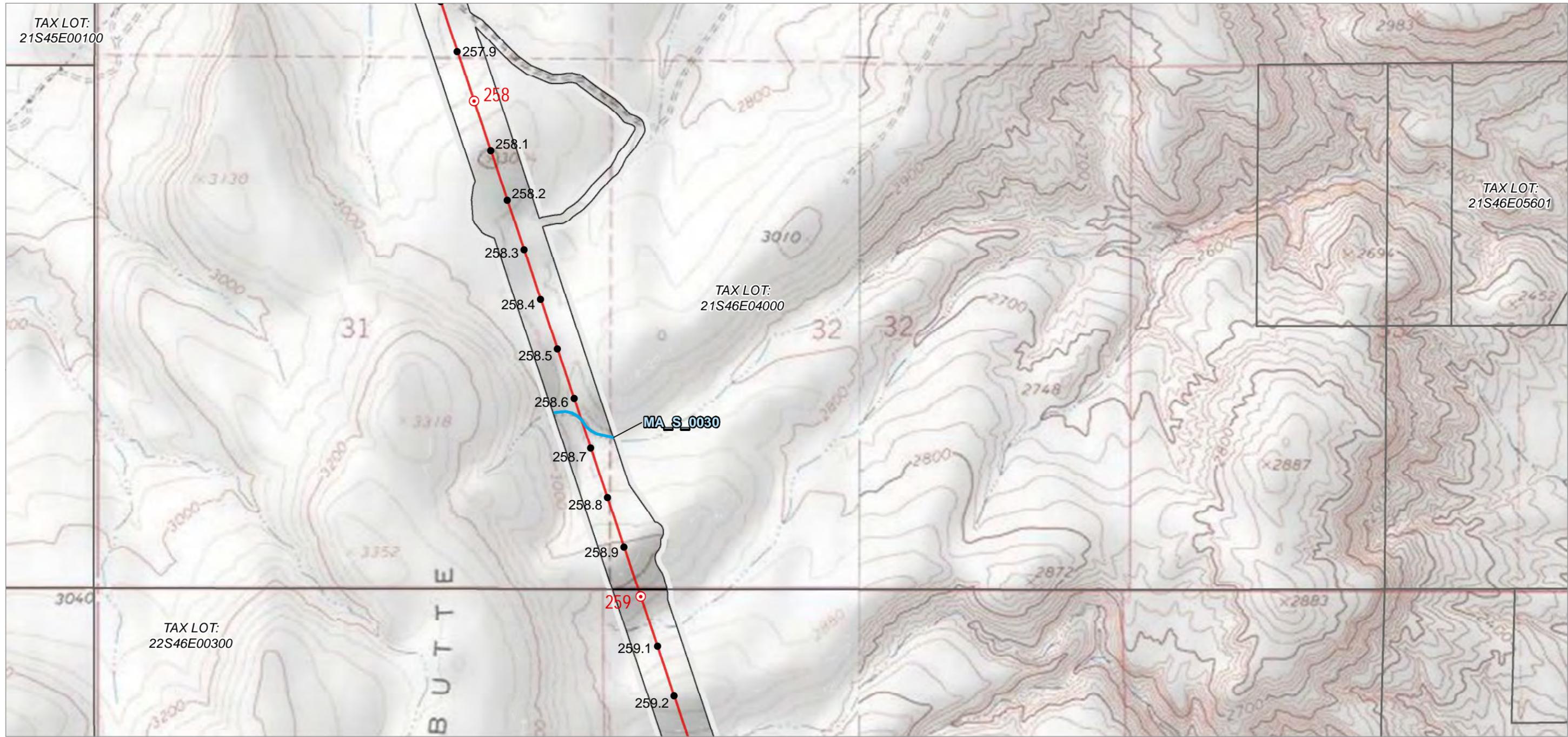
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Application for Site Certificate

**Appendix C-154**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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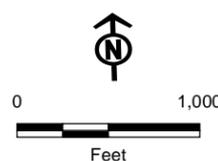
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21S46E05601

TAX LOT:  
21S46E04000

TAX LOT:  
22S46E00300

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E



- Project Features**
- Site Boundary
  - Proposed Route
  - Route Centerline
  - Proposed Route
  - Mileposts
  - Mile
- Other Waters**
- Tenth-mile
  - Field Survey Streams

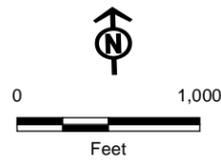
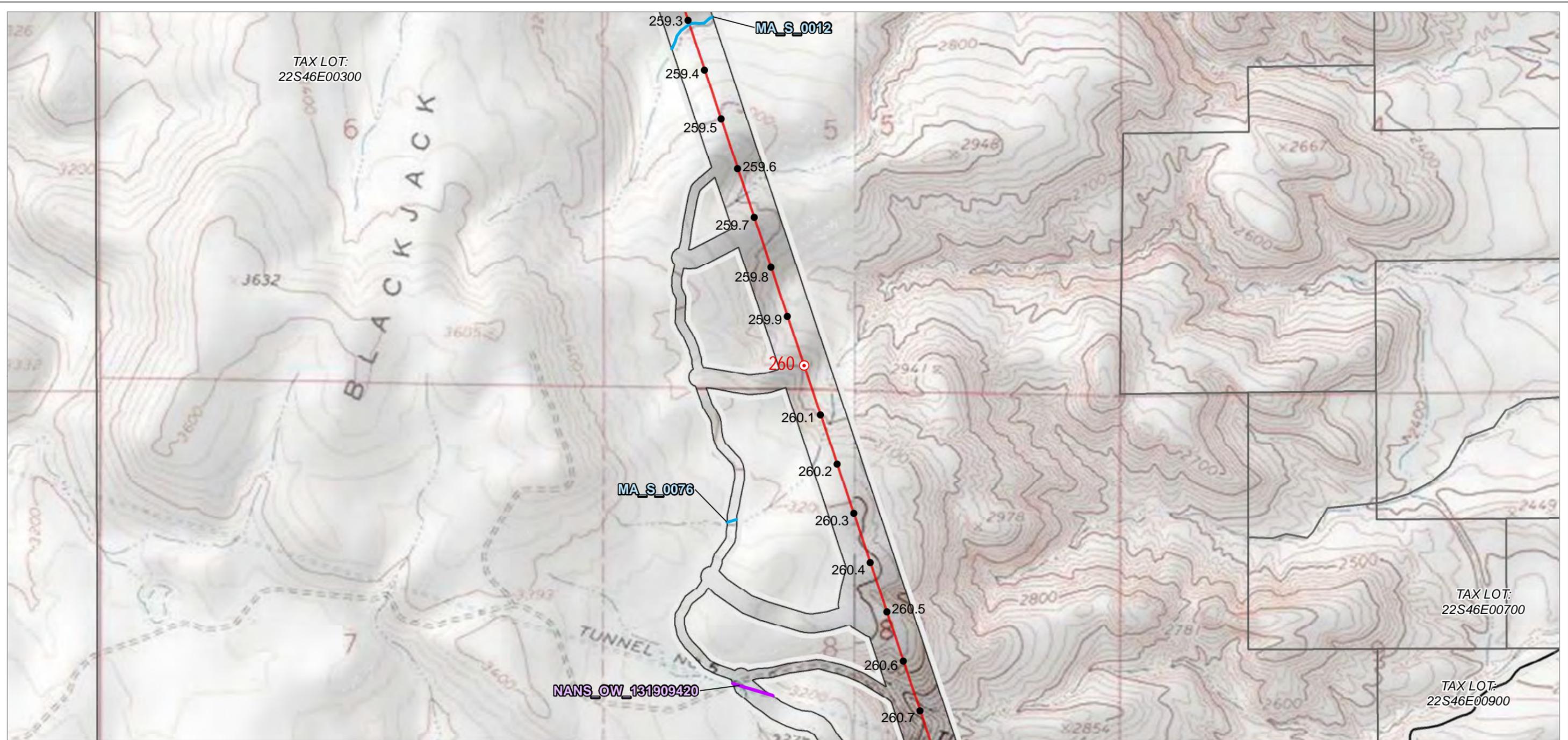
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Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Appendix C-155**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Mileposts
- Mile

- Tenth-mile
- Other Waters
- Field Survey Streams
- NANS Streams (NHD)

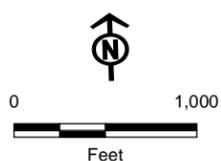
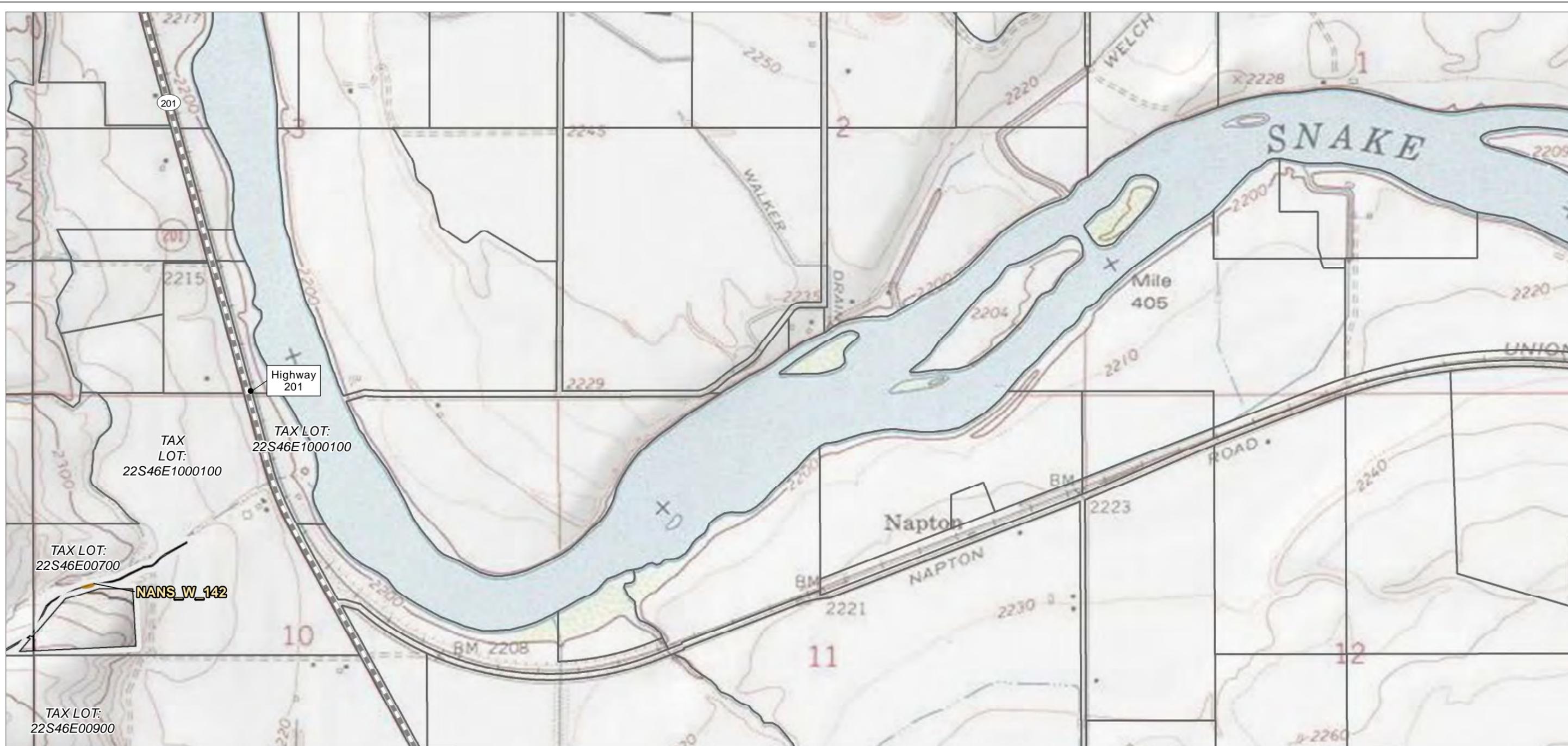


Boardman to Hemingway  
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**Appendix C-156**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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**Project Features**

Site Boundary

Proposed Route

**Transportation**

Other Major Roads

**Wetland**

NANS Wetland (NWI)

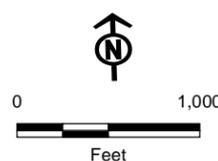
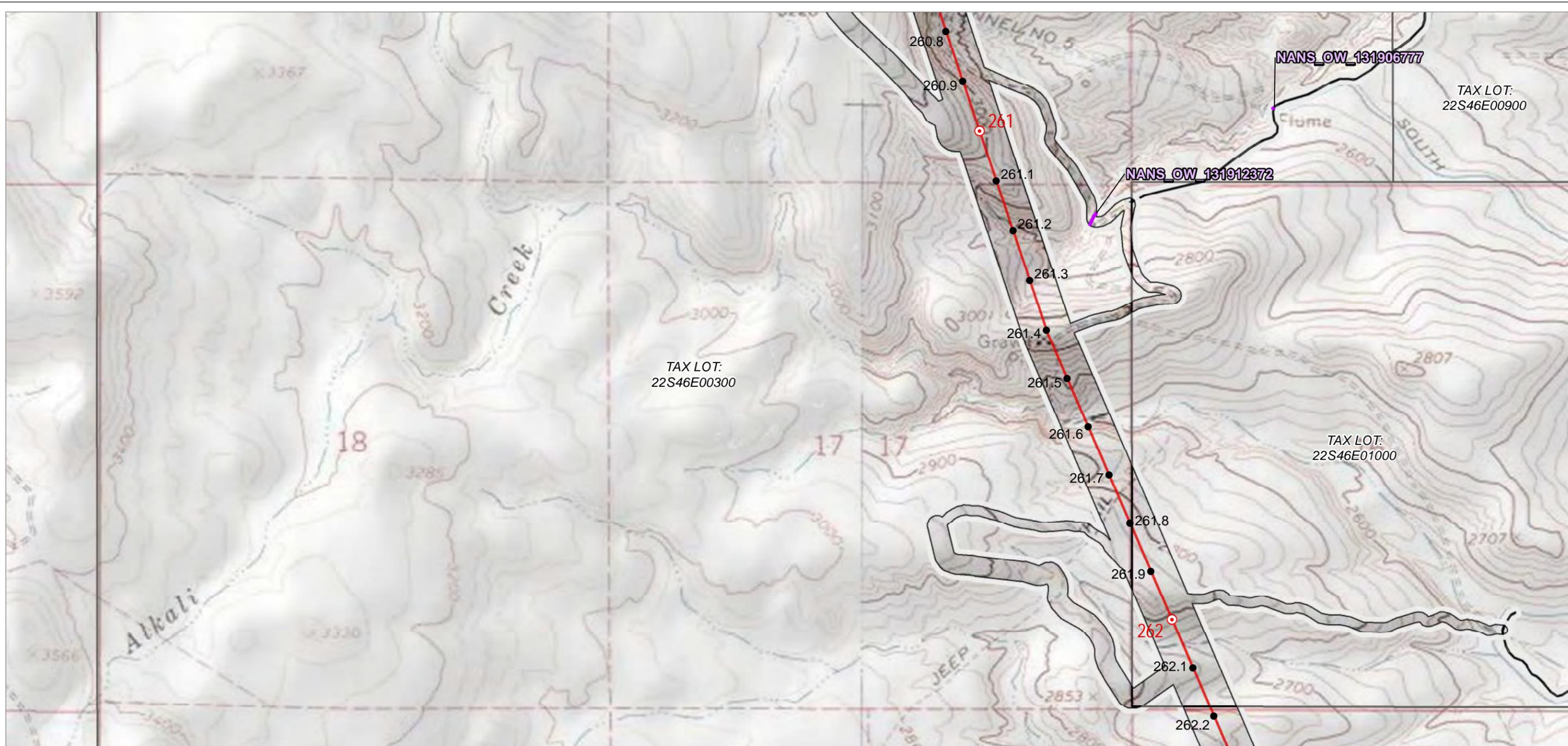


Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Appendix C-157**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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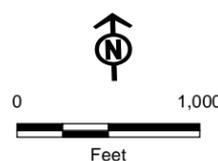
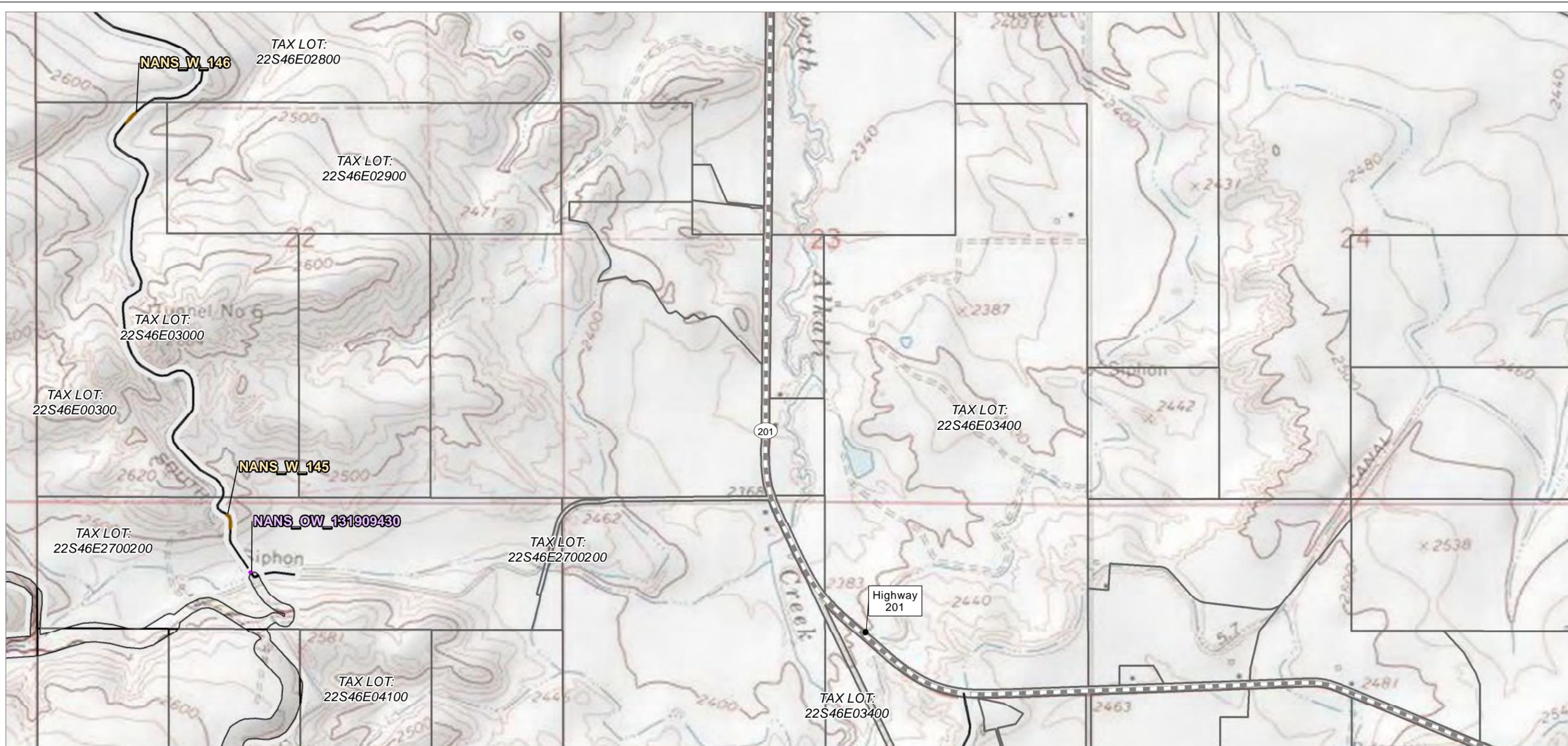
- Project Features**
- Site Boundary
  - Proposed Route
  - Route Centerline
  - Proposed Route
  - Mileposts
  - Mile
- Other Waters**
- Tenth-mile
  - NANS Streams (NHD)

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**Appendix C-158**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo



- Project Features**
- Site Boundary
  - Proposed Route
- Transportation**
- Other Major Roads
- Other Waters**
- NANS Streams (NHD)
- Wetland**
- NANS Wetland (NWI)

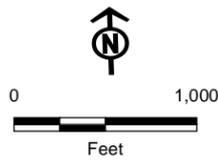
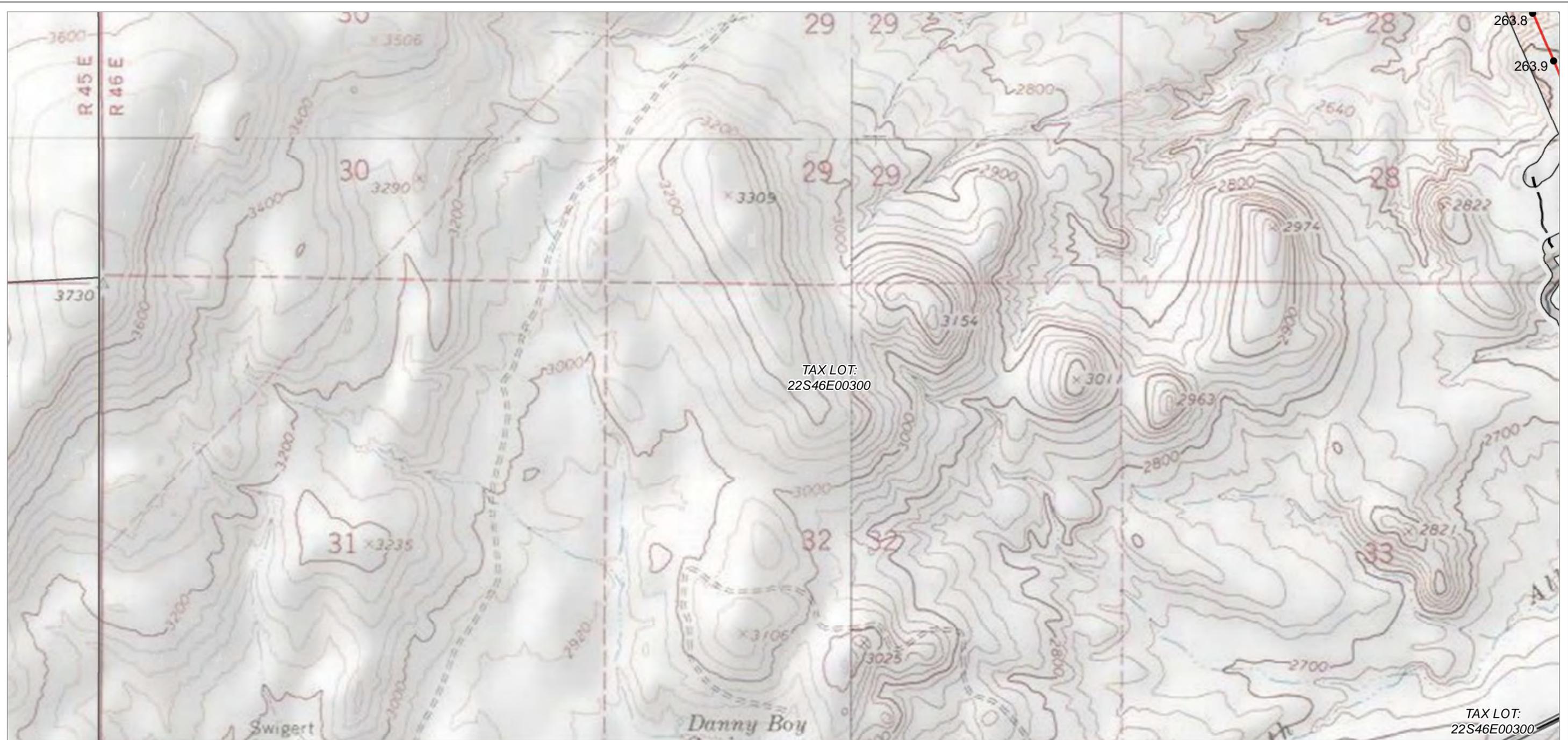
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Application for Site Certificate

**Appendix C-159**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Mileposts
- Tenth-mile

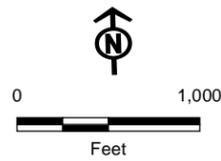
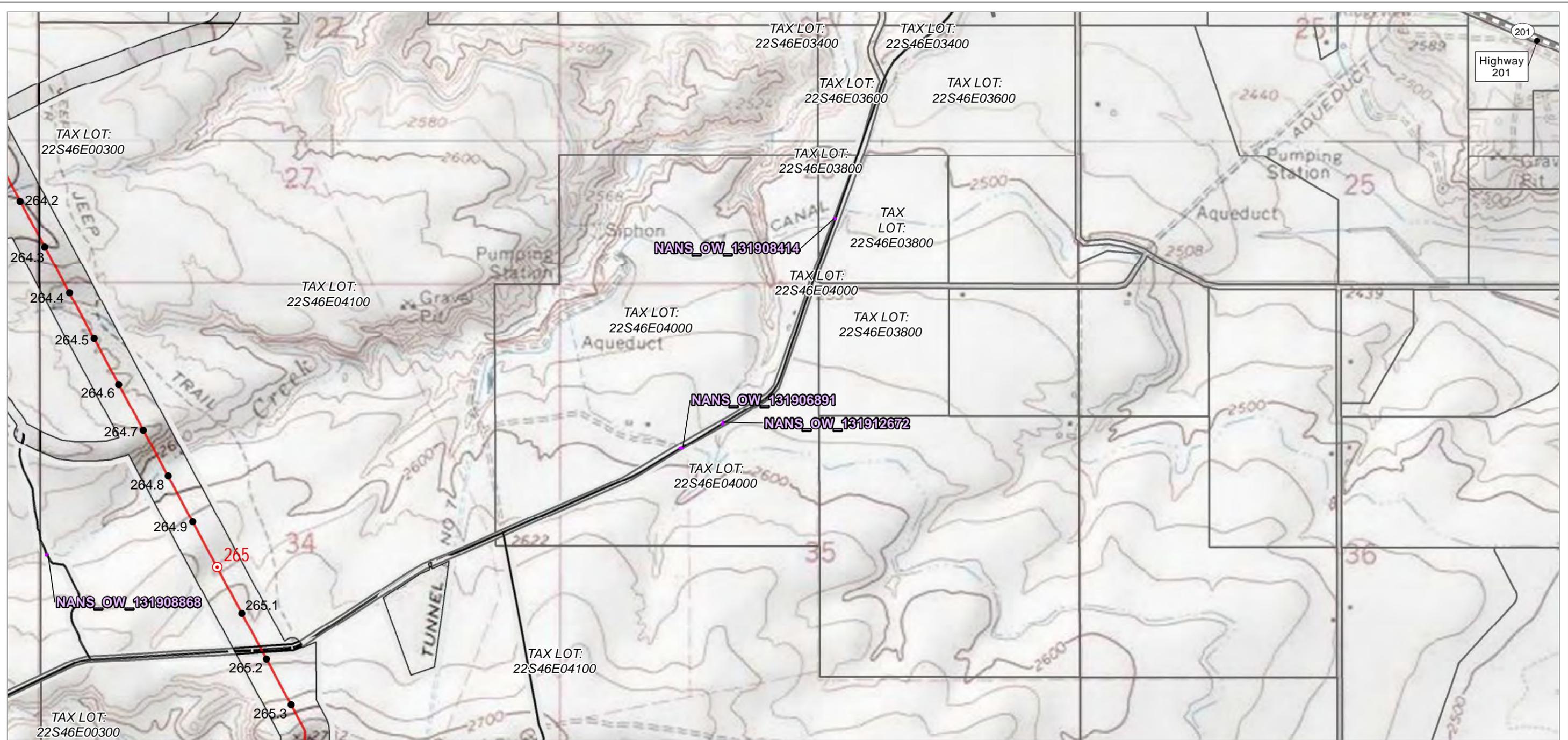


Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Appendix C-160**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Mileposts
- Mile

- Tenth-mile
- Other Major Roads
- Other Waters
- NANS Streams (NHD)

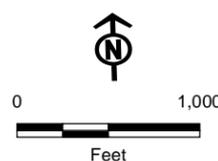
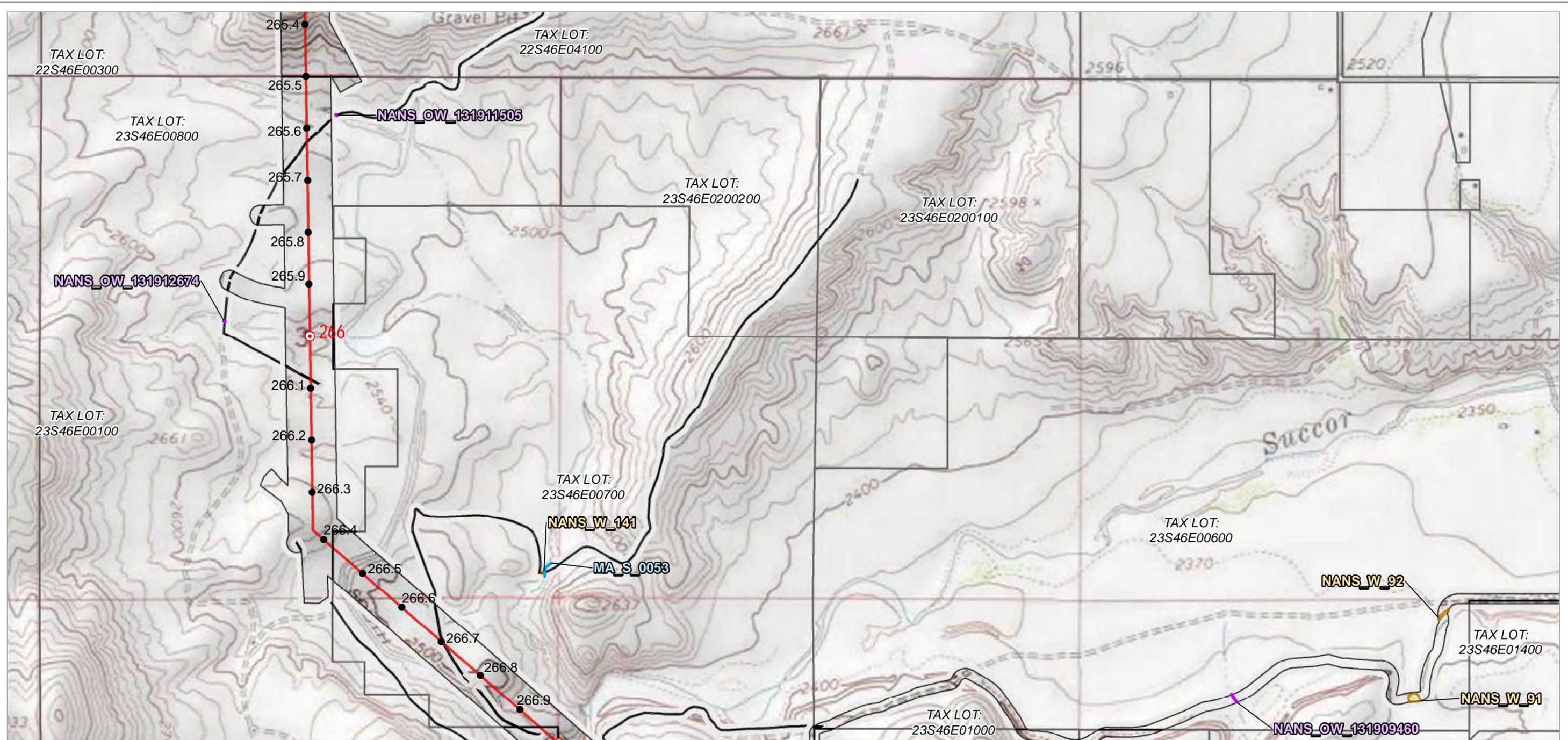


Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Appendix C-161**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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- Project Features**
- Site Boundary
  - Proposed Route
  - Route Centerline
  - Proposed Route
  - Mileposts
  - Mile
- Other Waters**
- Tenth-mile
  - Field Survey Streams
  - NANS Streams (NHD)
- Wetland**
- NANS Wetland (NWI)

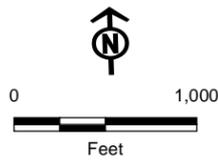
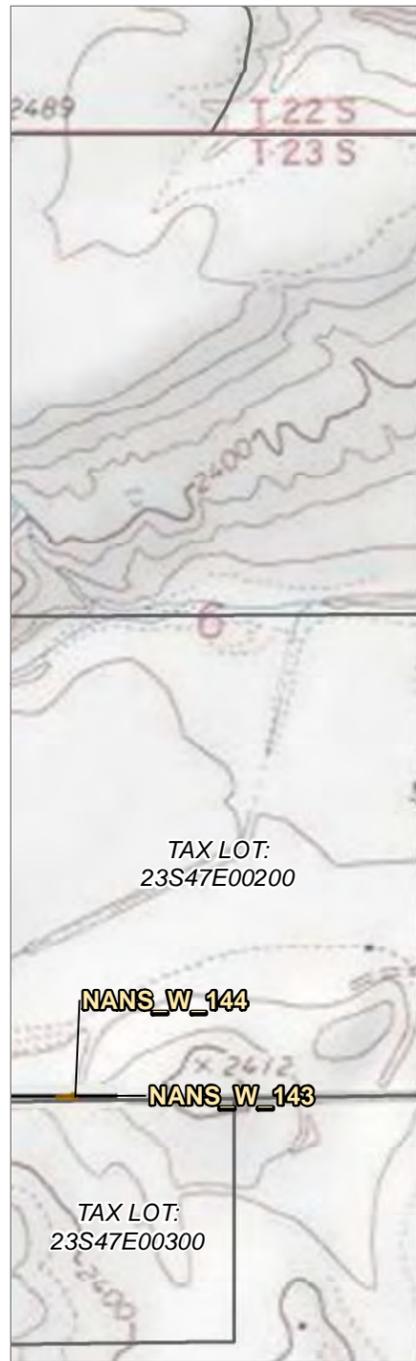
**IDAHO POWER**  
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Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Appendix C-162**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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**Project Features**

Site Boundary

Proposed Route

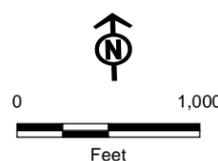
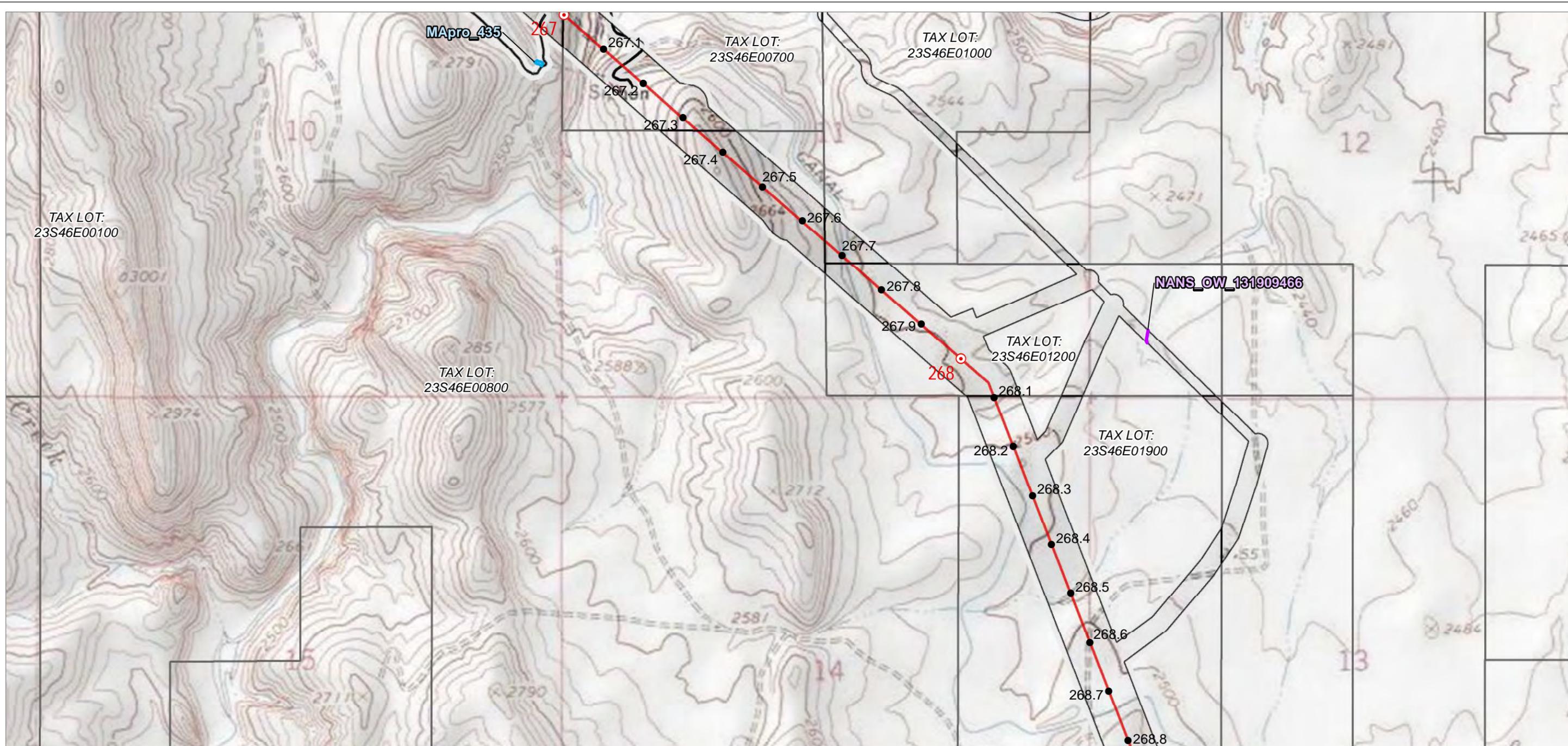
**Wetland**

NANS Wetland (NWI)



Boardman to Hemingway  
Transmission Line Project  
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**Appendix C-163**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County



- Project Features**
- Site Boundary
  - Proposed Route
  - Route Centerline
  - Proposed Route
  - Mileposts
  - Mile
- Other Waters**
- Tenth-mile
  - Field Survey Streams
  - NANS Streams (NHD)

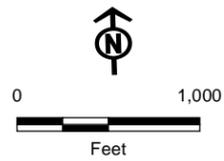
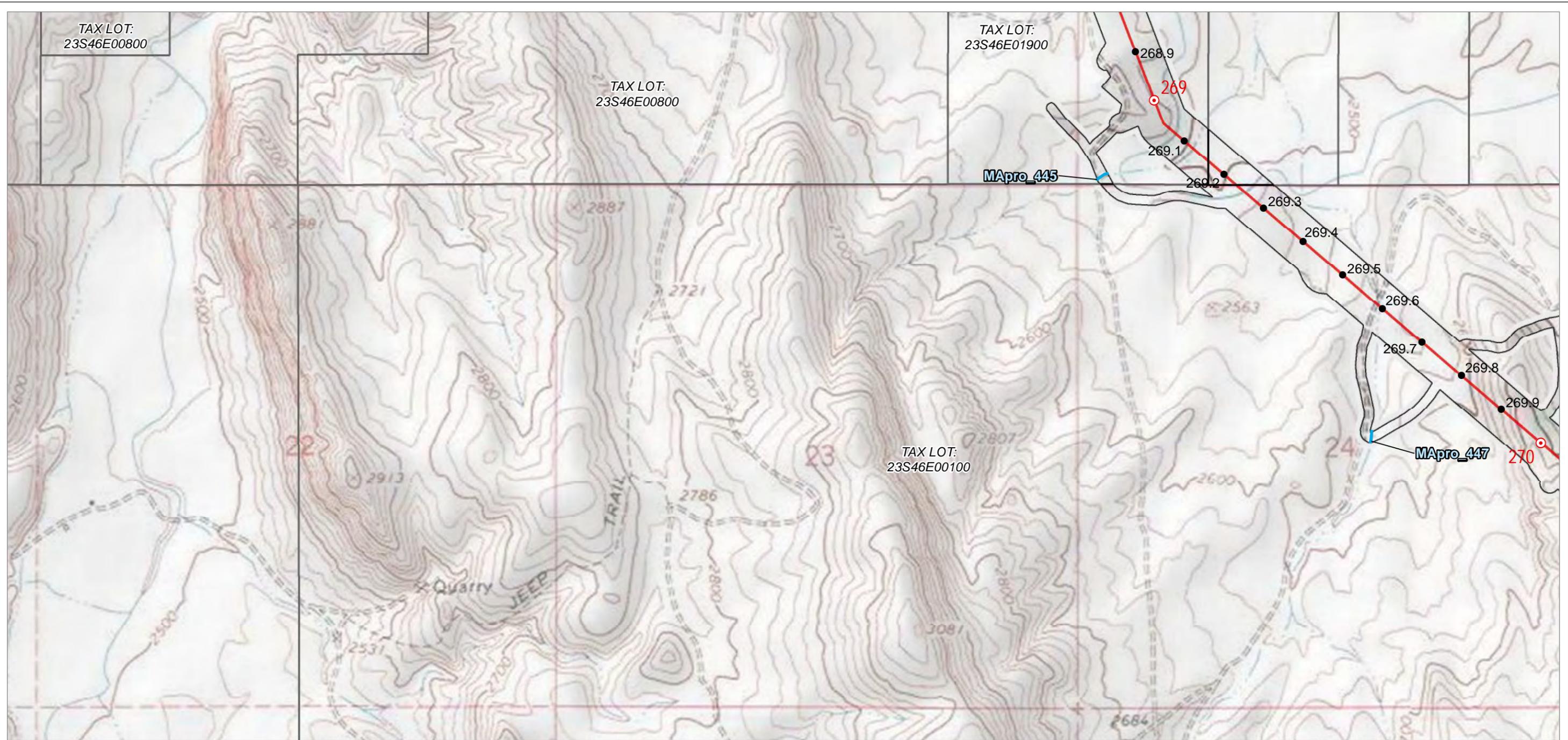
**IDAHO POWER**  
An IDACORP Company

Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Appendix C-164**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route

- Mileposts
- Mile

- Tenth-mile
- Other Waters
- Field Survey Streams



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**Appendix C-165**  
**Wetland and Other Waters**  
**Impact Sites, Tax Lots and Locations**  
**Detail Maps**  
Malheur County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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## Appendix D, Directions to the Site

Maps identifying Removal-Fill sites are included as Figures C-1 through C-165 in Appendix C, above. These figures include roads and other landmarks to serve as directions to the Removal-Fill sites.

## Appendix E, Wetland/Waterway

Impact analysis indicates that the Project will cause permanent and temporary impacts in wetlands and other jurisdictional, non-wetland waters. Features proposed to be impacted are itemized in Appendices G and O below.

## BLOCK 3 PROJECT PURPOSE, NEED, AND INDEPENDENT UTILITY

### Appendix F, Project Purpose, Need, and Independent Utility

The Project is proposed for the following purposes:

1. To allow IPC to meet its obligations to serve its retail customers located in the states of Idaho and Oregon.
2. To comply with the requirements of the Federal Energy Regulatory Commission (FERC) that IPC construct adequate transmission infrastructure to provide service to wholesale customers in accordance with IPC's Open Access Transmission Tariff (OATT) (2008).
3. To provide a cost-effective resource which serves as a critical component of the Company's preferred resource portfolio presented in IPC's 2009, 2011, and 2013 Integrated Resource Plans (IRPs), which have been acknowledged by both the Idaho Public Utilities Commission (IPUC) and the Oregon Public Utility Commission (OPUC). The Project is also part of IPC's preferred portfolio in its 2015 IRP, which was approved by the IPUC and is pending before the OPUC.

The primary needs for the Project are:

1. To allow IPC to maintain reliable electric service pursuant to the standards set forth by the North American Electric Reliability Corporation (NERC) and implemented by the Western Electricity Coordinating Council (WECC).
2. To relieve congestion of the existing transmission system and enhance the reliable, efficient and cost-effective energy transfer capability between the Pacific Northwest and Intermountain regions.

In short, the Project will relieve existing congestion, alleviate reliability constraints, and provide additional capacity for the delivery of needed energy to IPC's service area by 2021 or later.

Further, with respect to the Project's independent utility, OAR 141-085-0510(43) defines "independent utility" as meaning "the project accomplishes its intended purpose without the need for additional phases or other projects requiring further Removal-Fill activities." Here, IPC intends that its Energy Facility Siting Council site certificate application—and the Removal-Fill Permit sought thereunder—will cover all phases of the construction, operation, and maintenance of the transmission line project and will cover all Removal-Fill activities related to the same. Because the Project will accomplish its intended purpose without additional phases or projects requiring further Removal-Fill activities, the Project will have the requisite independent utility.

## BLOCK 4 DESCRIPTION OF RESOURCES IN PROJECT AREA

### **Appendix G, Description of Resources: Wetlands and Waters Characteristics**

Delineated wetlands and other waters proposed for impact are described in tables G-1A and G-2A, respectively, below. Un-delineated National Wetlands Inventory (NWI), National Hydrography Dataset (NHD), and desktop aerial photo-interpreted features with preliminary boundaries are described in Tables G-1B and Table G-2B. Ephemeral stream impacts, which are assumed to be jurisdictional only by the US Army Corps of Engineers (USACE) are described in Table G-3.

**Table G-1A.** Characteristics of Delineated Wetlands Proposed for Removal Fill Impacts

Feature ID	County	Appendix K Map	Mile Post	Cowardin Class	HGM Class	Permanent Acres	Temporary Acres	Hydrology Source	HUC 6 Code	HUC 6 Name	Dominant Plants
BA_BR_W446	Baker	K-134	173.6	PEM	Riverine Flow Through	0.003	0.008	Groundwater	170502	Middle Snake-Powder	<i>Scirpus pungens; Eleocharis palustris</i>
BA_FL_W_011	Baker	K-120	149.3	PEMB	Slope	0.006	0.008	Groundwater	170502	Middle Snake-Powder	<i>Polypogon monspeliensis, Poa fendleriana</i>
BA_FL_W_012	Baker	K-122	150.9	PEMB	Slope	0.008	0.019	Flooding	170502	Middle Snake-Powder	<i>Hordeum jubatum</i>
BA_WT_W_010	Baker	K-135	174	PEM	Slope	0.002	0.002	Groundwater	170502	Middle Snake-Powder	<i>Polypogon monspeliensis, Juncus bufonius, Veronica americana</i>
BA_WT_W_202	Baker	K-140	173.8	PEM	Riverine Flow Through	0.003	0.008	NA	170502	Middle Snake-Powder	<i>Juncus balticus, Eleocharis palustris</i>
BA_WT_W_204	Baker	K-140	173.9	PEMB	Slope	0.015	0.037	Groundwater	170502	Middle Snake-Powder	<i>Iris missouriensis, Rumex crispus, Juncus balticus</i>
BA_WT_W_206	Baker	K-139	174.2	PEM	Riverine Flow Through	0.006	0.013	Groundwater	170502	Middle Snake-Powder	<i>Juncus balticus</i>
UN_MC_W_018	Union	K-74	104	PEM	Slope	0.151	0.177	Groundwater	170601	Lower Snake	<i>Phleum pratense</i>
UN_MC_W_019	Union	K-75	104.4	PEM	Slope	0.010	0.099	Groundwater	170601	Lower Snake	<i>Juncus confusus, Carex nebrascensis</i>
UN_ML_W_004	Union	K-82	6.3	PEMFh	Depressional	0.003	0.006	Groundwater	170601	Lower Snake	<i>Juncus balticus</i>
UN_ML_W_015	Union	K-81	4.5	PEM	Riverine Flow Through	0.003	0.008	Groundwater	170601	Lower Snake	<i>Phleum pratense, Poa pratensis, Juncus balticus</i>
<b>Grand Total</b>						<b>0.211</b>	<b>0.386</b>				

**Table G-1B.** Characteristics of Wetlands (Not Accessed/Not Delineated) Proposed for Removal Fill Impacts

Feature ID	County	Appendix K Map	Mile Post	Cowardin Class	HGM Class	Permanent Acres	Temporary Acres	Hydrology Source	HUC 6 Code	HUC 6 Name	Dominant Plants
NANS_W_104	0.000	K-16	41.2	PEM	NA	0.131	0.131	NA	170701	Middle Columbia	TBD
NANS_W_105	0.009	K-16	41.1	PEM	NA	0.098	0.098	NA	170701	Middle Columbia	TBD
NANS_W_118	0.000	K-2	2.1	PEM	NA	0.237	0.237	NA	170701	Middle Columbia	TBD
NANS_W_119	0.000	K-3	2.4	PEM	NA	0.078	0.078	NA	170701	Middle Columbia	TBD
NANS_W_108	0.000	K-37	70.1	PEM	NA	0.004	0.004	NA	170701	Middle Columbia	TBD
NANS_W_109	0.000	K-37	70.1	PEM	NA	0.006	0.006	NA	170701	Middle Columbia	TBD
NANS_W_112	0.001	K-39	73.1	PEM	NA	0.004	0.004	NA	170701	Middle Columbia	TBD
NANS_W_115	0.000	K-36	69.9	PEM	NA	0.114	0.114	NA	170701	Middle Columbia	TBD
NANS_W_18	0.004	K-28	61.2	PEMA	NA	0.006	0.006	NA	170701	Middle Columbia	TBD
NANS_W_22	0.007	K-33	65.9	PEMC	NA	0.015	0.015	NA	170701	Middle Columbia	TBD
NANS_W_68	0.011	K-31	64.1	PFOC	NA	0.012	0.012	NA	170701	Middle Columbia	TBD
NANS_W_85	0.004	K-39	73.1	PEM	NA	0.013	0.013	NA	170701	Middle Columbia	TBD
NANS_W_86	0.004	K-39	73.1	PEM	NA	0.011	0.011	NA	170701	Middle Columbia	TBD
NANS_W_87	0.008	K-39	73	PEM	NA	0.018	0.018	NA	170701	Middle Columbia	TBD
NANS_W_89	0.010	K-38	72.3	PEM	NA	0.020	0.020	NA	170701	Middle Columbia	TBD
NANS_W_96	0.000	K-37	70.1	PEM	NA	0.001	0.001	NA	170701	Middle Columbia	TBD
NANS_W_98	0.000	K-36	70	PEM	NA	0.002	0.002	NA	170701	Middle Columbia	TBD
NANS_W_99	0.012	K-36	69.9	PEM	NA	0.028	0.028	NA	170701	Middle Columbia	TBD
NANS_W_26	0.016	K-95	126.1	PUSCh	NA	0.018	0.018	NA	170502	Middle Snake-Powder	TBD
NANS_W_51	0.029	K-73	103.6	PABFh	NA	0.034	0.034	NA	170601	Lower Snake	TBD
NANS_W_55	0.016	K-76	104.8	PEMA	NA	0.018	0.018	NA	170601	Lower Snake	TBD
NANS_W_80	0.079	K-53	89.2	PEMC	NA	0.411	0.411	NA	170601	Lower Snake	TBD
NANS_W_36	0.000	K-110	142.5	PSSA	NA	25.203	25.203	NA	170502	Middle Snake-Powder	TBD
NANS_W_37	0.000	K-114	145.7	PUSAh	NA	0.055	0.055	NA	170502	Middle Snake-Powder	TBD
NANS_W_75	0.056	K-123	159.7 - 159.9	PEMC	NA	0.064	0.064	NA	170502	Middle Snake-Powder	TBD
NANS_W_03	0.005	K-221	255.9	PEMB	NA	0.006	0.006	NA	170501	Middle Snake-Boise	TBD
NANS_W_11	0.000	K-179	216.4	PEMA	NA	0.454	0.454	NA	170501	Middle Snake-Boise	TBD
NANS_W_61	0.005	K-222	255.8	PEMC	NA	0.011	0.011	NA	170501	Middle Snake-Boise	TBD
NANS_W_62	0.008	K-220	255.5	PEMC	NA	0.009	0.009	NA	170501	Middle Snake-Boise	TBD
NANS_W_91	0.034	K-234	268	PFOA	NA	0.039	0.039	NA	170501	Middle Snake-Boise	TBD
NANS_W_92	0.007	K-235	268	PEMKCx	NA	0.008	0.008	NA	170501	Middle Snake-Boise	TBD
<b>Grand Total</b>						<b>0.327</b>	<b>27.127</b>				

1. Project impacts currently listed at PFOA and PFOC wetlands will be avoided after final design, before the Project is completed. These wetlands are based on mapped NWI features. Once access to these sites is approved, field surveys will determine the extent of wetlands.

**Table G-2A.** Characteristics of Delineated Other Waters Proposed for Removal or Fill Impacts

Feature ID	County	Appendix K Map	Mile Post	Cowardin Class	Permanent Acres	Temporary Acres	Hydrology Source	Flow Duration	Fish Presence	HUC6 Name	HUC6 Code	Channel Condition	Channel Bank Condition	Stream Substrate	Riparian Vegetation Composition	Permanent Stream Length (Feet)	Temporary Stream Length (Feet)
MO_SW_STRM_300	Morrow	K-13	34.2	R3	0.007	0.015	Groundwater	Perennial	Yes	Middle Columbia	170701	25-75% native &/or affect by disturbance	Incised	Fines, Gravel, Cobble	<i>Phalaris arundinacea</i> , <i>Echinochloa crusgalli</i> , <i>Scirpus microcarpus</i>	14.792	31.596
UM_SW_STRM_004	Umatilla	K-27	59.7	R3	0.013	0.027	Precipitation	Perennial	Anadromous	Middle Columbia	170701	25-75% native &/or affect by disturbance	Stable	Cobble	<i>Populous species</i> , <i>Urtica dioica</i>	28.040	60.267
UM_SW_STRM_008	Umatilla	K-18	37	R3	0.000	0.015	Precipitation	Perennial	Yes	Middle Columbia	170701	25-75% native &/or affect by disturbance	Headcut	Gravel, Cobble	<i>Phalaris arundinacea</i> , <i>Salix species</i> , <i>Conium maculatum</i>	0.000	36.387
UM_SW_STRM_013	Umatilla	K-30	64.2	R3	0.011	0.013	Precipitation	Perennial	Anadromous	Middle Columbia	170701	25-75% native &/or affect by disturbance	Stable	Cobble, Gravel, Boulder/bedrock	<i>Populous species</i> , <i>Urtica dioica</i> , <i>Phalaris arundinacea</i>	14.323	16.329
UN_MC_STRM_001	Union	K-60	97	R4	0.002	0.004	Precipitation	Intermittent	No	Lower Snake	170601	< 25% native &/or significant disturbance	Stable	Cobble, Gravel, Gravel	<i>Danthonia decumbens</i> , <i>Juncus terinius</i> , <i>Iris missouriensis</i>	28.333	29.693
UN_MC_STRM_005	Union	K-63	98.4	R4	0.004	0.006	Precipitation	Intermittent	No	Lower Snake	170601	< 25% native &/or significant disturbance	Stable	Cobble, Gravel, Gravel	<i>Poa pratensis</i> , <i>Carex microptera</i> , <i>Symphoricarpos albus</i> , <i>Iris missouriensis</i>	40.979	57.868
UN_MC_STRM_006	Union	K-63	98.4	R4	0.001	0.001	Precipitation	Intermittent	No	Lower Snake	170601	25-75% native &/or affect by disturbance	Stable	Cobble, Gravel, Gravel	<i>Monardella odoratissima</i> , <i>Polygonum douglasii</i> , <i>Navarretia intertexta</i>	15.029	16.030
UN_MC_STRM_300	Union	K-80	116.3	R3	0.000	0.000	Groundwater	Perennial	Unknown	Lower Snake	170601	25-75% native &/or affect by disturbance	Incised	Fines, Sand, Gravel	<i>Crataegus douglasii</i> , <i>Salix lutea</i>	2.685	12.178
UN_MC_STRM_301	Union	K-77	110.9	R4	0.001	0.002	Precipitation	Intermittent	No	Lower Snake	170601	> 75% cover native spp, good condition	Stable	Sand, Gravel, Cobble	<i>Crataegus douglasii</i> , <i>Salix scouleriana</i> , <i>Cornus alba</i> , <i>Acer glabrum</i>	14.576	16.676
UN_ML_STRM_300	Union	K-88	12.8	R3	0.002	0.005	Groundwater	Perennial	Yes	Lower Snake	170601	25-75% native &/or affect by disturbance	Stable	Fines, Boulder/bedrock, Gravel	<i>Abies grandis</i> , <i>Acer circinatum</i> , <i>Symphoricarpos albus</i>	14.230	37.523
BA_FL_008	Baker	K-122	150.9	R4	0.001	0.002	Groundwater	Intermittent	Unknown	Middle Snake-Powder	170502	25-75% native &/or affect by disturbance	Stable	Fines	<i>Hordeum jubatum</i>	25.671	102.336
BA_FL_STRM_023	Baker	K-121	149.1	R3	0.002	0.003	Groundwater	Perennial	No	Middle Snake-Powder	170502	25-75% native &/or affect by disturbance	Sedimentation	Fines, Sand	<i>Artemisia tridentata</i> , <i>Achillea millefolium</i>	20.845	29.256
BA_FL_STRM_024	Baker	K-119	150.2	R4	0.000	0.004	Flooding	Intermittent	Unknown	Middle Snake-Powder	170502	< 25% native &/or significant disturbance	Stable	Fines, Sand, Gravel	<i>Alopecurus pratensis</i>	0.000	14.803

Feature ID	County	Appendix K Map	Mile Post	Cowardin Class	Permanent Acres	Temporary Acres	Hydrology Source	Flow Duration	Fish Presence	HUC6 Name	HUC6 Code	Channel Condition	Channel Bank Condition	Stream Substrate	Riparian Vegetation Composition	Permanent Stream Length (Feet)	Temporary Stream Length (Feet)
BA_WT_STRM_017	Baker	K-135	174	R3	0.006	0.007	Groundwater	Perennial	No	Middle Snake-Powder	170502	> 75% cover native spp, good condition	Stable	Fines, Sand, Gravel	<i>Mimulus guttatus</i> , <i>Cornus alba</i> , <i>Nasturtium officinale</i>	55.076	57.870
BA_WT_STRM_020	Baker	K-133	173.9	R4	0.002	0.002	Precipitation	Intermittent	Yes	Middle Snake-Powder	170502	25-75% native &/or affect by disturbance	Stable	Cobble, Gravel, Sand	<i>Bromus tectorum</i>	15.191	17.400
BA_WT_STRM_027	Baker	K-155	188.4	R3	0.005	0.012	Groundwater	Perennial	Yes	Middle Snake-Powder	170502	> 75% cover native spp, good condition	Stable	Boulder/bedrock, Gravel, Sand	<i>Juncus confusus</i>	22.033	54.646
BA_WT_STRM_029	Baker	K-157	191.2	R4	0.001	0.004	Precipitation	Intermittent	No	Middle Snake-Powder	170502	< 25% native &/or significant disturbance	Stable	Cobble, Gravel	<i>Poa bulbosa</i> , <i>Dipsacus fullonum</i>	15.223	38.345
BA_WT_STRM_211	Baker	K-140	173.8	R4	0.001	0.002	Precipitation	Intermittent	Unknown	Middle Snake-Powder	170502	> 75% cover native spp, good condition	Stable	Fines, Gravel, Cobble	<i>Maiathemum stellatum</i>	15.641	33.449
BA_WT_STRM_213	Baker	K-138	173.9	R4	0.001	0.002	Precipitation	Intermittent	No	Middle Snake-Powder	170502	> 75% cover native spp, good condition	Stable	Gravel, Cobble	<i>Juniperus occidentalis</i> , <i>Pseudotsuga menziesii</i>	15.230	31.517
BA_WT_STRM_214	Baker	K-138	173.9	R4	0.001	0.001	Groundwater	Intermittent	No	Middle Snake-Powder	170502	> 75% cover native spp, good condition	Stable	Fines, Cobble	<i>Eleocharis palustris</i>	14.376	16.426
BA_WT_STRM_215	Baker	K-141	176.6	R3	0.007	0.009	Groundwater	Perennial	No	Middle Snake-Powder	170502	> 75% cover native spp, good condition	Stable	Fines, Cobble	<i>Acer glabrum</i> , <i>Populus tremuloides</i>	120.064	150.032
BA_WT_STRM_225	Baker	K-129	170.4	R3	0.002	0.004	Groundwater	Perennial	No	Middle Snake-Powder	170502	25-75% native &/or affect by disturbance	Stable	Fines	<i>Rumex crispus</i> , <i>Pseudoroegneria spicata</i> , <i>Artemisia tridentata</i>	17.527	43.484
MA_TM_005	Malheur	K-184	226.3	R4	0.001	0.001	Groundwater	Intermittent	Unknown	Middle Snake-Boise	170501	< 25% native &/or significant disturbance	Stable	Fines	<i>Cardaria draba</i> ,	16.217	18.560
MA_TM_465	Malheur	K-180	217.3	R4	0.000	0.000	Flooding	Intermittent	Unknown	Middle Snake-Boise	170501	< 25% native &/or significant disturbance	Sedimentation	Fines, Gravel, Cobble	<i>Bromus tectorum</i>	0.000	1.116
<b>Grand Total</b>					<b>0.071</b>	<b>0.140</b>										<b>526.082</b>	<b>923.788</b>

1. Project impacts currently listed at streams with fish presence will be avoided after final design, before the Project is completed.

**Table G-2B.** Characteristics of Other Waters (Not Accessed/Not Delineated) Proposed for Removal or Fill Impacts

Feature ID	County	Appendix K Map	Mile Post	Cowardin Class	Permanent Acres	Temporary Acres	Hydrology Source	Flow Duration	Fish Presence	HUC6 Name	HUC6 Code	Channel Condition	Channel Bank Condition	Stream Substrate	Riparian Vegetation Composition	Permanent Stream Length (Feet)	Temporary Stream Length (Feet)
NANS_OW_14 5365444	Morrow	K-7	15	TBD	0.002	0.002	TBD	Intermittent	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	15.13	17.29
NANS_OW_15 2904366	Morrow	K-9	20.5	TBD	0.001	0.003	TBD	Intermittent	Unknown	Middle Columbia	170701	TBD	TBD	TBD	TBD	10.48	2.04
NANS_OW_15 2904546	Morrow	K-8	15	TBD	0.005	0.006	TBD	Intermittent	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	36.31	41.57
NANS_OW_15 2906926	Morrow	K-6	14.4	TBD	0.000	0.039	TBD	Intermittent	Unknown	Middle Columbia	170701	TBD	TBD	TBD	TBD	0.00	281.95
NANS_OW_16 0621028	Morrow	K-12	26.7	TBD	0.001	0.002	TBD	Intermittent	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	10.16	16.26
NANS_OW_16 0621034	Morrow	K-10	25.6	TBD	0.001	0.002	TBD	Intermittent	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	10.27	16.43
NANS_OW_16 0621220	Morrow	K-11	26.2	TBD	0.001	0.002	TBD	Intermittent	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	10.67	16.93
NANS_OW_16 0621288	Morrow	K-17	45	TBD	0.002	0.003	TBD	Intermittent	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	11.65	18.65
NANS_OW_16 7136398	Morrow	K-4	2.3	TBD	0.006	0.007	TBD	Intermittent	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	66.44	25.46
NANS_OW_14 5365948	Umatilla	K-33	65.9	TBD	0.003	0.006	TBD	Intermittent	Yes	Middle Columbia	170701	TBD	TBD	TBD	TBD	20.01	42.87
NANS_OW_14 5367254	Umatilla	K-31	64.1	TBD	0.002	0.002	TBD	Perennial	Anadromous	Middle Columbia	170701	TBD	TBD	TBD	TBD	14.22	16.25
NANS_OW_14 5367832	Umatilla	K-48	85.9	TBD	0.002	0.002	TBD	Perennial	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	14.73	16.83
NANS_OW_16 0620715	Umatilla	K-20	52.6	TBD	0.002	0.002	TBD	Intermittent	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	14.49	16.56
NANS_OW_16 0620752	Umatilla	K-22	53.5	TBD	0.009	0.012	TBD	Intermittent	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	46.28	84.56
NANS_OW_16 0621909	Umatilla	K-21	53.2	TBD	0.001	0.002	TBD	Intermittent	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	11.77	15.72
NANS_OW_16 0622367	Umatilla	K-21	53.2	TBD	0.044	0.049	TBD	Intermittent	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	332.27	360.29
NANS_OW_16 0622394	Umatilla	K-19	47.5	TBD	0.002	0.004	TBD	Intermittent	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	14.02	30.09
NANS_OW_16 0630009	Umatilla	K-46	85.3	TBD	0.003	0.004	TBD	Intermittent	Unknown	Middle Columbia	170701	TBD	TBD	TBD	TBD	23.51	27.31
NANS_OW_16 0630041	Umatilla	K-47	85.6	TBD	0.002	0.002	TBD	Intermittent	Unknown	Middle Columbia	170701	TBD	TBD	TBD	TBD	14.25	16.28
NANS_OW_16 0630259	Umatilla	K-49	86	TBD	0.008	0.017	TBD	Perennial	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	57.51	124.39
NANS_OW_16 0630306	Umatilla	K-44	84.9	TBD	0.005	0.006	TBD	Intermittent	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	38.64	44.16
NANS_OW_16 0630366	Umatilla	K-42	84.2	TBD	0.005	0.005	TBD	Intermittent	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	32.75	37.53
NANS_OW_16 0630515	Umatilla	K-45	85.2	TBD	0.013	0.093	TBD	Perennial	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	93.04	576.25

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NANS_OW_16 0630894	Umatilla	K-50	87	TBD	0.001	0.002	TBD	Perennial	Anadromous	Middle Columbia	170701	TBD	TBD	TBD	TBD	10.10	16.16
NANS_OW_16 0631202	Umatilla	K-40	75.5	TBD	0.017	0.019	TBD	Perennial	Yes	Middle Columbia	170701	TBD	TBD	TBD	TBD	14.60	16.76
NANS_OW_16 0631236	Umatilla	K-40	75.5	TBD	0.002	0.002	TBD	Intermittent	Yes	Middle Columbia	170701	TBD	TBD	TBD	TBD	15.06	17.21
NANS_OW_16 0631504	Umatilla	K-28	61.2	TBD	0.001	0.002	TBD	Intermittent	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	10.49	16.79
NANS_OW_16 0631595	Umatilla	K-26	57	TBD	0.000	0.035	TBD	Intermittent	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	0.00	252.55
NANS_OW_16 0631666	Umatilla	K-32	64.3	TBD	0.010	0.011	TBD	Intermittent	Unknown	Middle Columbia	170701	TBD	TBD	TBD	TBD	71.87	82.14
NANS_OW_16 0631674	Umatilla	K-24	55	TBD	0.002	0.002	TBD	Intermittent	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	14.04	16.05
NANS_OW_16 0631692	Umatilla	K-25	56.4	TBD	0.004	0.007	TBD	Intermittent	No	Middle Columbia	170701	TBD	TBD	TBD	TBD	29.82	47.44
NANS_OW_10 9319883	Union	K-58	93.9	TBD	0.002	0.002	TBD	Intermittent	Unknown	Lower Snake	170601	TBD	TBD	TBD	TBD	14.80	16.91
NANS_OW_10 9322453	Union	K-62	98.2	TBD	0.003	0.003	TBD	Intermittent	No	Lower Snake	170601	TBD	TBD	TBD	TBD	20.57	23.50
NANS_OW_10 9324275	Union	K-71	102.2	TBD	0.002	0.003	TBD	Intermittent	Unknown	Lower Snake	170601	TBD	TBD	TBD	TBD	17.23	19.70
NANS_OW_10 9324277	Union	K-71	102	TBD	0.002	0.003	TBD	Intermittent	Unknown	Lower Snake	170601	TBD	TBD	TBD	TBD	14.97	19.28
NANS_OW_10 9324431	Union	K-69	1.9	TBD	0.004	0.005	TBD	Perennial	No	Lower Snake	170601	TBD	TBD	TBD	TBD	30.54	34.90
NANS_OW_10 9325279	Union	K-69	1.8	TBD	0.004	0.005	TBD	Perennial	No	Lower Snake	170601	TBD	TBD	TBD	TBD	28.99	33.13
NANS_OW_10 9325311	Union	K-76	104.8	TBD	0.006	0.007	TBD	Intermittent	No	Lower Snake	170601	TBD	TBD	TBD	TBD	42.69	48.88
NANS_OW_10 9327743	Union	K-84	10.9	TBD	0.038	0.045	TBD	Perennial	Yes	Lower Snake	170601	TBD	TBD	TBD	TBD	291.41	357.78
NANS_OW_11 2935185	Union	K-90	119.9	TBD	0.002	0.002	TBD	Intermittent	Unknown	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	14.28	16.31
NANS_OW_11 2936335	Union	K-98	126.1	TBD	0.005	0.006	TBD	Perennial	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	37.59	43.35
NANS_OW_11 2936337	Union	K-98	126.4	TBD	0.002	0.003	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	17.05	19.49
NANS_OW_11 2936437	Union	K-101	126.7	TBD	0.005	0.006	TBD	Perennial	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	35.79	40.92
NANS_OW_11 2936455	Union	K-96	126.4	TBD	0.002	0.044	TBD	Perennial	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	12.09	302.67

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NANS_OW_16 0026464	Union	K-59	96.1	TBD	0.000	0.037	TBD	Intermittent	Unknown	Lower Snake	170601	TBD	TBD	TBD	TBD	0.00	267.29
NANS_OW_16 0026869	Union	K-54	90.1	TBD	0.002	0.003	TBD	Intermittent	Unknown	Lower Snake	170601	TBD	TBD	TBD	TBD	16.78	19.17
NANS_OW_16 0027377	Union	K-65	99.6	TBD	0.002	0.002	TBD	Perennial	No	Lower Snake	170601	TBD	TBD	TBD	TBD	14.05	16.05
NANS_OW_16 0027389	Union	K-64	99.1	TBD	0.020	0.023	TBD	Intermittent	Unknown	Lower Snake	170601	TBD	TBD	TBD	TBD	144.22	169.94
NANS_OW_16 0028467	Union	K-66	100.3	TBD	0.002	0.003	TBD	Perennial	No	Lower Snake	170601	TBD	TBD	TBD	TBD	15.91	18.48
NANS_OW_16 0030655	Union	K-86	12.2	TBD	0.003	0.003	TBD	Intermittent	Unknown	Lower Snake	170601	TBD	TBD	TBD	TBD	19.37	22.13
NANS_OW_16 0030657	Union	K-87	12.4	TBD	0.004	0.004	TBD	Intermittent	Unknown	Lower Snake	170601	TBD	TBD	TBD	TBD	27.01	30.88
NANS_OW_16 0030712	Union	K-72	102.8	TBD	0.002	0.002	TBD	Intermittent	Unknown	Lower Snake	170601	TBD	TBD	TBD	TBD	14.22	16.25
NANS_OW_16 0559766	Union	K-97	126.6	TBD	0.007	0.037	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	53.82	205.00
NANS_OW_16 0559774	Union	K-102	127.1	TBD	0.002	0.047	TBD	Intermittent	Unknown	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	12.22	322.89
NANS_OW_16 0559782	Union	K-99	126.4	TBD	0.003	0.003	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	20.79	23.76
NANS_OW_16 0559783	Union	K-100	126.5	TBD	0.002	0.002	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	14.52	16.59
UN_S_0021	Union	K-55	91	TBD	0.001	0.002	TBD	Ephemeral	No	Lower Snake	170601	TBD	TBD	TBD	TBD	45.09	102.23
UN_S_0043	Union	K-70	3.1	TBD	0.000	0.000	TBD	Ephemeral	Unknown	Lower Snake	170601	TBD	TBD	TBD	TBD	14.14	16.15
BA_LM_STRM _208	Baker	K-108	138.8	NONE	0.001	0.002	Precipitation	Ephemeral	No	Middle Snake-Powder	170502	TBD	Stable	TBD	None	16.13	18.45
BA_S_0010	Baker	K-104	132.6	TBD	0.001	0.001	TBD	Ephemeral	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	32.19	36.48
MalWllwCrk_3 70	Baker	K-159	195.5	TBD	0.003	0.006	TBD	Ephemeral	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	24.64	53.27
NANS_OW_11 2857578	Baker	K-123	159.7	TBD	0.030	0.034	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	217.61	250.79
NANS_OW_11 2859680	Baker	K-126	168.7	TBD	0.004	0.004	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	27.81	31.39

Feature ID	County	Appendix K Map	Mile Post	Cowardin Class	Permanent Acres	Temporary Acres	Hydrology Source	Flow Duration	Fish Presence	HUC6 Name	HUC6 Code	Channel Condition	Channel Bank Condition	Stream Substrate	Riparian Vegetation Composition	Permanent Stream Length (Feet)	Temporary Stream Length (Feet)
NANS_OW_11 2859752	Baker	K-126	168.7	TBD	0.009	0.010	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	60.85	74.12
NANS_OW_11 2859912	Baker	K-127	169.1	TBD	0.003	0.003	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	21.11	24.05
NANS_OW_11 2861708	Baker	K-132	171.4	TBD	0.002	0.005	TBD	Intermittent	Unknown	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	14.42	36.12
NANS_OW_11 2862662	Baker	K-137	172.9	TBD	0.002	0.006	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	17.97	40.39
NANS_OW_11 2862680	Baker	K-136	173.4	TBD	0.002	0.004	TBD	Intermittent	Unknown	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	14.10	30.18
NANS_OW_11 2866870	Baker	K-145	178.7	TBD	0.002	0.004	TBD	Perennial	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	14.76	26.36
NANS_OW_11 2944499	Baker	K-109	140.1	TBD	0.003	0.004	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	23.03	26.41
NANS_OW_11 2947391	Baker	K-113	145.6	TBD	0.002	0.046	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	16.87	300.03
NANS_OW_11 2947399	Baker	K-114	145.7	TBD	0.002	0.005	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	15.10	33.41
NANS_OW_11 2947411	Baker	K-114	145.7	TBD	0.000	0.005	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	0.00	33.16
NANS_OW_11 2947525	Baker	K-116	146.2	TBD	0.007	0.036	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	49.65	248.83
NANS_OW_11 2947751	Baker	K-114	145.9	TBD	0.009	0.028	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	65.55	72.17
NANS_OW_11 2947947	Baker	K-117	146.6	TBD	0.014	0.034	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	99.47	240.14
MA_S_0012	Malheur	K-227	259.3	TBD	0.001	0.001	TBD	Ephemeral	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.25	16.29
MA_S_0016	Malheur	K-213	251	TBD	0.001	0.023	TBD	Ephemeral	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	15.22	296.95
MA_S_0030	Malheur	K-226	258.6	TBD	0.002	0.003	TBD	Ephemeral	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	59.25	65.94

Feature ID	County	Appendix K Map	Mile Post	Cowardin Class	Permanent Acres	Temporary Acres	Hydrology Source	Flow Duration	Fish Presence	HUC6 Name	HUC6 Code	Channel Condition	Channel Bank Condition	Stream Substrate	Riparian Vegetation Composition	Permanent Stream Length (Feet)	Temporary Stream Length (Feet)
MA_S_0061	Malheur	K-214	251.2	TBD	0.001	0.003	TBD	Ephemeral	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.66	36.41
MA_S_0076	Malheur	K-228	260.2	TBD	0.001	0.002	TBD	Ephemeral	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.67	31.43
MA_S_0114	Malheur	K-205	3.3	TBD	0.002	0.005	TBD	Ephemeral	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.31	35.77
MA_S_0133	Malheur	K-207	5	TBD	0.002	0.004	TBD	Ephemeral	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	24.60	52.42
MApro_445	Malheur	K-237	269.1	TBD	0.002	0.003	TBD	Ephemeral	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.51	25.75
MApro_447	Malheur	K-238	269.7	TBD	0.002	0.003	TBD	Ephemeral	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	16.03	18.32
NANS_OW_12 7033740	Malheur	K-160	197.1	TBD	0.002	0.013	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	14.24	61.61
NANS_OW_12 7033915	Malheur	K-167	200.3	TBD	0.001	0.002	TBD	Intermittent	Unknown	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	10.02	16.03
NANS_OW_12 7033935	Malheur	K-168	200.5	TBD	0.003	0.003	TBD	Intermittent	Unknown	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	18.81	21.50
NANS_OW_12 7033980	Malheur	K-169	200.9	TBD	0.029	0.037	TBD	Intermittent	Yes	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	216.30	275.21
NANS_OW_12 7034191	Malheur	K-171	204.4	TBD	0.005	0.014	TBD	Intermittent	Unknown	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	33.20	104.05
NANS_OW_13 1909420	Malheur	K-229	260.6	TBD	0.005	0.012	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	35.97	87.42
NANS_OW_13 1909450	Malheur	K-231	264.4	TBD	0.002	0.003	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	16.37	18.71
NANS_OW_13 1909460	Malheur	K-233	267.9	TBD	0.002	0.002	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.65	16.74
NANS_OW_13 1909466	Malheur	K-236	268.1	TBD	0.002	0.003	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	16.96	19.37
NANS_OW_13 1912372	Malheur	K-230	261.2	TBD	0.002	0.005	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	17.70	38.47

Feature ID	County	Appendix K Map	Mile Post	Cowardin Class	Permanent Acres	Temporary Acres	Hydrology Source	Flow Duration	Fish Presence	HUC6 Name	HUC6 Code	Channel Condition	Channel Bank Condition	Stream Substrate	Riparian Vegetation Composition	Permanent Stream Length (Feet)	Temporary Stream Length (Feet)
NANS_OW_14 4341452	Malheur	K-178	216.1	TBD	0.000	0.039	TBD	Intermittent	Unknown	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	0.00	285.54
NANS_OW_14 4341464	Malheur	K-176	215.5	TBD	0.002	0.003	TBD	Intermittent	Unknown	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	16.52	20.79
NANS_OW_14 6126413	Malheur	K-195	239.9	TBD	0.002	0.005	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.39	35.97
NANS_OW_14 6127958	Malheur	K-191	232	TBD	0.002	0.004	TBD	Intermittent	Unknown	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.03	30.06
NANS_OW_14 6131470	Malheur	K-183	222.7	TBD	0.003	0.007	TBD	Intermittent	Unknown	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	21.04	51.76
NANS_OW_14 6132517	Malheur	K-186	227.1	TBD	0.003	0.003	TBD	Intermittent	Unknown	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	18.97	21.83
NANS_OW_14 6136922	Malheur	K-219	253.9	TBD	0.002	0.005	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.23	37.07
NANS_OW_15 8456326	Malheur	K-224	257.3	TBD	0.003	0.004	TBD	Intermittent	Unknown	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	23.49	26.72
NANS_OW_15 8456344	Malheur	K-223	257	TBD	0.004	0.004	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	27.33	31.59
NANS_OW_15 8456345	Malheur	K-224	257.3	TBD	0.003	0.003	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	21.27	24.31
NANS_OW_15 8456389	Malheur	K-218	252.5	TBD	0.002	0.010	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	15.80	32.05
NANS_OW_15 8456390	Malheur	K-215	251.6	TBD	0.002	0.002	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.46	16.52
NANS_OW_15 8456392	Malheur	K-216	252	TBD	0.002	0.002	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.10	16.12
NANS_OW_15 8456401	Malheur	K-211	248.3	TBD	0.002	0.002	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.16	16.18
NANS_OW_15 8456415	Malheur	K-210	6.9	TBD	0.002	0.004	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.38	30.94
NANS_OW_15 8456448	Malheur	K-212	249.4	TBD	0.002	0.004	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.22	30.57

Feature ID	County	Appendix K Map	Mile Post	Cowardin Class	Permanent Acres	Temporary Acres	Hydrology Source	Flow Duration	Fish Presence	HUC6 Name	HUC6 Code	Channel Condition	Channel Bank Condition	Stream Substrate	Riparian Vegetation Composition	Permanent Stream Length (Feet)	Temporary Stream Length (Feet)
NANS_OW_15 8456510	Malheur	K-200	7.39	TBD	0.002	0.002	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.06	16.07
NANS_OW_15 8456533	Malheur	K-225	257.6	TBD	0.002	0.002	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.81	16.99
NANS_OW_15 8456538	Malheur	K-217	252.2	TBD	0.002	0.005	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	15.23	37.97
NANS_OW_16 0608459	Malheur	K-162	197.5	TBD	0.002	0.019	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	14.08	97.25
NANS_OW_16 0608482	Malheur	K-163	198.2	TBD	0.004	0.182	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	10.00	1,288.25
NANS_OW_16 0608484	Malheur	K-163	0.2	TBD	0.003	0.004	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	24.25	32.41
NANS_OW_16 0608485	Malheur	K-161	0	TBD	0.000	0.031	TBD	Intermittent	No	Middle Snake-Powder	170502	TBD	TBD	TBD	TBD	0.00	226.62
NANS_OW_16 2723408	Malheur	K-199	242.5	TBD	0.003	0.008	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	21.90	55.43
NANS_OW_16 2723589	Malheur	K-206	3.8	TBD	0.002	0.005	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.81	36.51
NANS_OW_16 2723590	Malheur	K-196	241	TBD	0.002	0.005	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.86	37.90
NANS_OW_16 2723597	Malheur	K-194	239.1	TBD	0.002	0.005	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.91	37.29
NANS_OW_16 2724152	Malheur	K-209	6.5	TBD	0.002	0.004	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.37	30.79
NANS_OW_16 2724156	Malheur	K-208	5.6	TBD	0.003	0.007	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	22.38	47.96
NANS_OW_16 2724172	Malheur	K-198	241.9	TBD	0.002	0.006	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	18.12	45.53
NANS_OW_16 2724176	Malheur	K-197	241.6	TBD	0.002	0.005	TBD	Intermittent	Unknown	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.28	35.71
NANS_OW_16 2724202	Malheur	K-204	2.5	TBD	0.002	0.003	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	15.81	18.18

Feature ID	County	Appendix K Map	Mile Post	Cowardin Class	Permanent Acres	Temporary Acres	Hydrology Source	Flow Duration	Fish Presence	HUC6 Name	HUC6 Code	Channel Condition	Channel Bank Condition	Stream Substrate	Riparian Vegetation Composition	Permanent Stream Length (Feet)	Temporary Stream Length (Feet)
NANS_OW_16 2724206	Malheur	K-193	0.2	TBD	0.002	0.005	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	15.36	37.36
NANS_OW_16 2724211	Malheur	K-202	1.9	TBD	0.004	0.009	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	24.94	62.93
NANS_OW_16 2724225	Malheur	K-201	1.6	TBD	0.002	0.004	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.53	31.14
NANS_OW_16 2724261	Malheur	K-193	0.3	TBD	0.002	0.005	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.09	35.62
NANS_OW_16 2724299	Malheur	K-187	230.2	TBD	0.003	0.006	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	20.92	44.83
NANS_OW_16 2724333	Malheur	K-188	230.1	TBD	0.044	0.105	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	317.14	796.39
NANS_OW_16 2724347	Malheur	K-192	232.7	TBD	0.002	0.005	TBD	Intermittent	Unknown	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.06	35.65
NANS_OW_16 2730565	Malheur	K-173	211.2	TBD	0.002	0.005	TBD	Intermittent	Unknown	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	14.00	35.01
NANS_OW_16 2730612	Malheur	K-175	215.1	TBD	0.000	0.020	TBD	Intermittent	Unknown	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	0.00	144.57
NANS_OW_16 2730678	Malheur	K-181	217.7	TBD	0.000	0.008	TBD	Intermittent	No	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	0.00	56.92
NANS_OW_16 2734905	Malheur	K-177	215.8	TBD	0.000	0.002	TBD	Intermittent	Unknown	Middle Snake-Boise	170501	TBD	TBD	TBD	TBD	0.00	13.81
<b>Grand Total</b>					<b>0.582</b>	<b>1.605</b>										<b>4,305.05</b>	<b>11,411.70</b>

**Table G-3. Characteristics of Other Waters (Ephemeral Streams) Proposed for Removal or Fill Impacts**

Feature ID	County	Appendix K Map	Mile Post	Fish Presence	HUC 6 Name	HUC 6 Code	Permanent Acres	Temporary Acres	Permanent Stream Length (Feet)	Temporary Stream Length (Feet)
MO_SW_STRM_001	Morrow	K-14	34.1	Unknown	Middle Columbia	170701	0.000	0.003	0.00	40.93
MO_SW_STRM_301	Morrow	K-15	34.8	No	Middle Columbia	170701	0.000	0.001	0.00	7.66
UM_SW_STRM_002	Umatilla	K-34	67.6	Unknown	Middle Columbia	170701	0.000	0.008	0.00	132.61
UM_SW_STRM_009	Umatilla	K-28	61	Unknown	Middle Columbia	170701	0.004	0.007	30.25	47.54
UM_SW_STRM_010	Umatilla	K-29	62.4	No	Middle Columbia	170701	0.005	0.006	16.40	18.83
UM_SW_STRM_016	Umatilla	K-35	67.5	Unknown	Middle Columbia	170701	0.000	0.154	0.00	420.92
UN_LM_STRM_209	Union	K-94	122	No	Middle Snake-Powder	170502	0.002	0.003	94.45	127.62
UN_LM_STRM_226	Union	K-94	122.1	No	Middle Snake-Powder	170502	0.003	0.003	45.52	50.90
UN_LM_STRM_227	Union	K-94	122.2	No	Middle Snake-Powder	170502	0.001	0.001	16.96	19.56
UN_LM_STRM_228	Union	K-94	122	No	Middle Snake-Powder	170502	0.001	0.001	19.33	22.09
UN_LM_STRM_300	Union	K-92	121	No	Middle Snake-Powder	170502	0.004	0.008	27.58	48.59
UN_LM_STRM_301	Union	K-91	120.6	Unknown	Middle Snake-Powder	170502	0.001	0.003	15.10	36.47
UN_MC_STRM_002	Union	K-61	97.1	No	Lower Snake	170601	0.001	0.001	14.41	17.31
UN_MC_STRM_003	Union	K-61	97.1	No	Lower Snake	170601	0.002	0.003	35.26	41.58
UN_MC_STRM_004	Union	K-61	97.2	No	Lower Snake	170601	0.001	0.001	7.34	8.49
UN_ML_STRM_007	Union	K-67	2	No	Lower Snake	170601	0.000	0.029	0.00	207.21
BA_BR_029	Baker	K-131	169.8	No	Middle Snake-Powder	170502	0.001	0.001	23.86	27.40
BA_BR_416	Baker	K-125	167.3	No	Middle Snake-Powder	170502	0.001	0.002	14.85	37.49
BA_BR_461	Baker	K-128	169.7	No	Middle Snake-Powder	170502	0.001	0.008	14.27	152.61
BA_LM_STRM_202	Baker	K-105	133.6	No	Middle Snake-Powder	170502	0.000	0.005	0.00	22.13
BA_LM_STRM_205	Baker	K-107	136.9	No	Middle Snake-Powder	170502	0.001	0.001	14.30	16.38
BA_LM_STRM_206	Baker	K-106	135.7	No	Middle Snake-Powder	170502	0.004	0.016	56.80	169.65
BA_WT_STRM_219	Baker	K-145	178.8	Unknown	Middle Snake-Powder	170502	0.003	0.010	20.75	48.63
BA_WT_STRM_220	Baker	K-147	182.8	No	Middle Snake-Powder	170502	0.029	0.053	500.10	922.18
BA_WT_STRM_224	Baker	K-131	169.8	No	Middle Snake-Powder	170502	0.002	0.002	29.06	32.13
BA_WT_STRM_226	Baker	K-129	170.4	No	Middle Snake-Powder	170502	0.001	0.002	16.65	33.42
BA_WT_STRM_307	Baker	K-146	179.4	Unknown	Middle Snake-Powder	170502	0.001	0.003	16.02	45.74

Feature ID	County	Appendix K Map	Mile Post	Fish Presence	HUC 6 Name	HUC 6 Code	Permanent Acres	Temporary Acres	Permanent Stream Length (Feet)	Temporary Stream Length (Feet)
BA_WT_STRM_308	Baker	K-146	179.6	Unknown	Middle Snake-Powder	170502	0.001	0.003	19.21	45.00
MA_TM_405	Malheur	K-172	205.3	No	Middle Snake-Powder	170502	0.002	0.002	20.29	22.86
MA_TM_483	Malheur	K-177	215.8	Unknown	Middle Snake-Boise	170501	0.001	0.001	14.03	16.03
<b>Grand Total</b>							<b>0.072</b>	<b>0.339</b>	<b>1,082.79</b>	<b>2,839.97</b>

1. Project impacts currently listed at streams with fish presence will be avoided after final design, before the project is completed.
2. Temporary impacts listed for stream BA\_LM\_STRM\_202 will likely be avoided after final design for the project is completed.

## **Appendix H, State Listed Species**

Exhibit Q of the ASC provides expanded information about threatened and endangered species that may be present in the Project site (Site Boundary). A summary of state listed species potentially within the Site Boundary is provided in Table H-1. Data from the following sources were reviewed, and used to help develop threatened and endangered species information:

- Oregon Biodiversity Information Center (ORBIC);
- StreamNet;
- Oregon Department of Fish and Wildlife (ODFW);
- Oregon Department of Agriculture;
- U.S. Department of Agriculture, Forest Service;
- Bureau of Land Management;
- Geographic Biotic Observation (GeoBOB) database;
- ODFW native fish status report; and
- National Oceanic and Atmospheric Administration Fisheries Division.

**Table H-1.** State Listed Threatened and Endangered Species Potentially Present within the Project Site (Site Boundary)

Common Name Scientific Name	State Status	Present in Wetlands or Other Waters	Documented Use of Exhibit Q Analysis Area (Site Boundary +0.5 mile) <sup>1</sup>
<b>WILDLIFE</b>			
Wolverine <i>Gulo gulo</i>	T	No	No records in existing databases. Not found during surveys.
Washington Ground Squirrel <i>Urocitellus washingtoni</i>	E	No <sup>2</sup>	Multiple records in existing databases, mostly along the Boardman Bombing Range; three active colonies identified in the analyses area during surveys.
<b>FISH</b>			
Snake River Chinook (Spring/Summer Run) <i>Oncorhynchus tshawtscha</i>	T	Yes; but not impacted waters.	ORBIC record in the Grande Ronde River. Current literature states that this species occurs in streams or drainages within the analysis area.
<b>PLANTS</b>			
Cronquist's Stickseed <i>Hackelia cronquistii</i>	T	No	Eleven occurrences within the analysis area in Malheur County, based on BLM and ORBIC databases, as well as observations from 2012, 2013, and 2016 field surveys. Estimated 877 acres and 9,833 individuals within the analysis area.
Howell's Spectacular Thelypody <i>Thelypodium howellii</i> ssp. <i>spectabilis</i>	E	No	One ORBIC occurrence in Union County within the analysis area. Not found during surveys. Estimated 40 acres and 1,000 individuals within the analysis area, based on a 1995 field visit reported by ORBIC. More recent field visits were made from the roadside, where only a few individuals were observed.
Laurence's Milk-Vetch <i>Astragalus collinus</i> var. <i>laurentii</i>	T	No	Three occurrences within the analysis area in Morrow and Umatilla counties, based on ORBIC database and observations from 2016 surveys in Umatilla County. Estimated 3 acres and 61 individuals within the analysis area.
Mulford's Milk-Vetch <i>Astragalus mulfordiae</i>	E	No	Two occurrences within the analysis area in Malheur county, based on BLM and ORBIC databases and observations from 2016 surveys. Estimated 173 acres and 4,753 individuals within the analysis area.
Oregon Semaphore Grass <i>Pleuropogon oregonus</i>	T	No	No existing database records or survey observations within the analysis area. Closest known occurrence is 0.2 mile away from the analysis area.
Smooth Mentzelia <i>Mentzelia mollis</i>	E	No	No existing database records or survey observations within the analysis area. Closest known occurrences is 0.2 mile away from the analysis area.

Common Name Scientific Name	State Status	Present in Wetlands or Other Waters	Documented Use of Exhibit Q Analysis Area (Site Boundary +0.5 mile) <sup>1</sup>
Snake River Goldenweed <i>Pyrrocoma radiata</i>	E	No	Four occurrences within the analysis area in Baker County, based on BLM and ORBIC databases, as well as observations from 2012, 2013, and 2016 field surveys. Estimated 500 acres and 12,155 individuals within the analysis area.
Sterile Milk-Vetch (a.k.a. Cusick’s Milk-vetch) <i>Astragalus cusickii</i> var. <i>sterilis</i>	T	No	No existing database records or survey observations within the analysis area. Closest known occurrence is nearly 5 miles west of the analysis area.

T – Threatened; E – Endangered

<sup>1</sup> Based on results of Project-specific surveys, as well as the databases discussed in Exhibit Q, Section 3.2 (e.g., 2016 ORBIC, BLM, or USFS data). The number of occurrences for plants within the analysis area were identified based on a 0.62-mile separation distance as described in NatureServe (2004).

<sup>2</sup> Based on colony boundaries. 785-foot-wide buffers of some colonies overlap wetlands.

## BLOCK 5 PROJECT SPECIFIC CRITERIA AND ALTERNATIVES ANALYSIS

### Appendix I, Alternatives Analysis

Through IPC's 2015 Integrated Resource Plan (IRP) — which forecasts load growth in IPC's service — IPC evaluated the Project portfolio as one of nine alternative portfolios. The Project portfolio represents the lowest-cost resource that will ensure that IPC is able to meet growing load and maintain its system in a safe, reliable, and economic manner, and was selected on the basis of extensive cost analysis performed as part of the IRP process.

IPC is fully engaged in a comprehensive evaluation of resources on the 270.-mile long Proposed Route. This effort includes planning for avoidance and minimization of impacts to numerous resources including but not limited to waters of the state, threatened and endangered species, agricultural land, visual resources, and NHPA Section 106 resources. Selection of the final route and final micro-siting of Project facilities must strike a balance that optimizes minimal impacts to all resources.

This alternatives analysis is ongoing. IPC is committed to achieving minimal impact to all resources, to the greatest extent possible while preserving the feasibility of accomplishing the project in terms of cost, logistics and technology.

The results of the 2011-2013 wetland delineation surveys were used to modify the location of proposed facilities to avoid or minimize impacts to stream, river, and wetland resources along the Proposed Route. The results of subsequent wetland surveys may be analyzed during the final engineering design for additional opportunities for avoidance and minimization.

In 2013, Exhibit J, total impacts to wetlands and other waters, both temporary and permanent, totaled 4.29 acres. In 2014, data analysis for a meeting with USACE in Boise indicated a total impact (again, wetlands and other waters, temporary and permanent) of 3.44 acres. (Impact totals listed above for 2013 and 2014 also included estimated permanent and temporary impacts for some wetlands and streams which had not been field delineated but were estimated from mapped NWI and NHD features). Analysis of the 2015 design indicated total permanent and temporary impact to all delineated water features of 0.351 acres. Total estimated permanent and temporary impact to all not yet field-delineated water features was 0.971 acres. In 2016, total combined impacts to delineated wetlands and other waters, both temporary and permanent, totaled 0.793 acres. Total estimated permanent and temporary impact to all not yet field-delineated wetlands and other waters was 4.47 acres. One potential wetland site (based on NWI mapping) that was not accessed in 2016 is a 25.203-acre potential temporary impact.

Table I-1 documents avoidance and minimization efforts that have occurred on some wetlands and waters. This information is not exhaustive; other avoidance and minimization actions have been taken that are not recorded here.

**Table I-1.** Morrow County Avoidance and Minimization

Feature	Feature Type	Route	Mile	Impact Status	Review Date	Avoidance or Minimization Action
NANS_OW_152 902001	Other Waters	Proposed Route	0.8	Avoided	2014-04-14	No longer using Boardman Canal Rd.

**Table I-2.** Umatilla County Avoidance and Minimization

Feature	Feature Type	Route	Mile	Impact Status	Review Date	Avoidance or Minimization Action
UMpro_064	Other Waters	Proposed Route	79.7	Avoided	2014-02-26	Removed redundant overland travel roads in ROW between structure's 383 and 385. Shifted work area for structure 385 east and trimmed to wetland. New access road was trimmed to avoid water feature.
UMpro_064	Other Waters	Proposed Route	79.7	Avoided	2013-04-24	Shifted roadway approach slightly to avoid crossing buffer structure 405.
UM_S_0143	Other Waters	Proposed Route	80.7	Avoided	2014-02-26	Will limit road disturbance as much as possible to avoid impacts.
UM_S_0059	Other Waters	Proposed Route	81.4	Avoided	2014-03-13	Eliminated redundant overland travel.
NANS_OW_160 630046	Other Waters	Proposed Route	81.7	Avoided	2013-04-24	Design modified to avoid impact.
NANS_OW_160 630032	Other Waters	Proposed Route	83.2	Minimized	2014-02-26	Eliminated redundant overland travel road in ROW between structures 397 and 398. Road type changed to minimize impact as much as possible.
NANS_OW_160 630032	Other Waters	Proposed Route	83.2	Minimized	2014-03-13	Trimmed work area; eliminated redundant overland travel between structures in ROW.
UM_G_122	Other Waters	Proposed Route	84	Avoided	2013-04-25	Design modified to avoid impact.

**Table I-3.** Union County Avoidance and Minimization

Feature	Feature Type	Route	Mile	Impact Status	Review Date	Avoidance or Minimization Action
UN_G_104	Other Waters	Proposed Route	110.2	Avoided	2013-05-13	Shifted tower location; previously trimmed work area and changed access to avoid wetlands.

**Table I-4.** Baker County Avoidance and Minimization

Feature	Feature Type	Route	Mile	Impact Status	Review Date	Avoidance or Minimization Action
BA_S_0010	Other Waters	Proposed Route	128.3	Avoided	2014-04-16	Reworked roads to use existing ephemeral crossing and minimize channel impacts.
BA_FL_035	Other Waters	Proposed Route	150.8	Minimized	2014-03-19	Will limit road disturbance as much as possible to avoid impacts.
NANS_OW_1128 57470	Other Waters	Proposed Route	153.9	Avoided	2014-03-19	Trimmed work area and overland travel site.
NANS_W_38	Wetland	Proposed Route	158.3	Avoided	2014-04-14	Added overland travel on one side and trimmed on the other side to avoid wetlands.
NANS_W_38	Wetland	Proposed Route	158.3	Avoided	2014-03-19	Trimmed remaining road stub to avoid waters/wetland impacts.
BA_TM_218	Other Waters	Proposed Route	190.9	Avoided	2014-03-26	Eliminated crossing in favor of established crossing on Benson Creek Rd to the west.

**Table I-5. Malheur County Avoidance and Minimization**

<b>Feature</b>	<b>Feature Type</b>	<b>Route</b>	<b>Mile</b>	<b>Impact Status</b>	<b>Review Date</b>	<b>Avoidance or Minimization Action</b>
MA_G_290	Other Waters	Double Mountain	0.2	Minimized	date not recorded	Trimmed work area to minimize impact as much as possible.
MA_G_299	Other Waters	Double Mountain	2.5	Minimized	date not recorded	Will limit road disturbance as much as possible to avoid impacts.
MA_TM_465	Other Waters	Proposed Route	212.2	Minimized	2014-06-02	Moved road to in-between water features.
MA_TM_033	Other Waters	Proposed Route	216.4	Avoided	2014-04-11	Trimmed work areas, overland travel sites and reworked road to avoid crossing.
NANS_OW_14613 2542MA_TM_018	Other Waters	Proposed Route	218.3	Avoided	2014-03-28	Eliminated stream crossing.
NANS_OW_15982 9758	Other Waters	Proposed Route	224.1	Avoided	date not recorded	Trimmed structure work area; reworked roads to avoid water feature.
NANS_OW_15982 9758	Other Waters	Proposed Route	224.1	Avoided	date not recorded	Trimmed structure work area; reworked roads to avoid water feature.
NANS_OW_16272 4379	Other Waters	Proposed Route	225.4	Avoided	date not recorded	Reworked roads.
Malpro_573	Wetland	Proposed Route	226.9	Avoided	2014-03-31	Structure previously shifted; Trimmed work area to avoid impact.
NANS_W_162723 597	Other Waters	Proposed Route	234	Minimized	2014-06-02	Reduced structure work area and moved access road to reduce impact to resource.
MA12_1643	Other Waters	Proposed Route	236.4	Minimized	2014-06-02	Moved road south to a better stream crossing point within the Site Boundary.
MA_S_0035	Other Waters	Proposed Route	240.3	Avoided	2014-04-01	Eliminated crossing.

<b>Feature</b>	<b>Feature Type</b>	<b>Route</b>	<b>Mile</b>	<b>Impact Status</b>	<b>Review Date</b>	<b>Avoidance or Minimization Action</b>
MA_S_0082	Other Waters	Proposed Route	243.1	Avoided	2014-04-01	Eliminated redundant overland travel in ROW with crossing.
MA_S_0038	Other Waters	Proposed Route	243.9	Avoided	2014-04-01	Will limit road disturbance as much as possible to avoid impacts.
MA_G_256	Other Waters	Proposed Route	259.2	Avoided	2014-04-02	Removed redundant overland travel in ROW.
MA_G_256	Other Waters	Proposed Route	259.2	Avoided	2014-04-02	Trimmed overland travel; removed overland travel in ROW.
MA_G_277	Wetland	Proposed Route	262.9	Avoided	2013-04-25	Eliminated overland travel site and reclassified bladed road to overland travel.

## BLOCK 6 PROJECT DESCRIPTION

### Appendix J Summary of Overall Project Work

The following description of how the Project will be constructed is extracted and summarized from the Exhibit B Project Description of the ASC and from the draft Plan of Development prepared for the Bureau of Land Management.

#### Access Roads

The Project will require vehicular access during construction of each transmission structure, communication station site, as well as temporary facilities including multi-use areas and pulling and tensioning sites. As described in Exhibit B, Attachment B-5, Road Classification Guide and Access Control Plan, access roads included in the Site Boundary include:

- New roads (primitive, and bladed); and
- Existing roads requiring substantial modification.

Existing roads that will be used for construction and operation of the Project but will not require substantial modification are not “related and supporting facilities” and, therefore, are not included in the Site Boundary. See Exhibit B, Attachment B-5, Table B-12 for a summary of the access road classifications.

**New Primitive Roads.** New primitive roads are characterized as follows:

- Created by direct vehicle travel over native material and existing vegetation.
- Disturbance may include clearing of large woody vegetation and other obstructions to ensure safe vehicle operation.
- Will generally be present on the landscape as two-track roads leaving no disturbance beyond the edge of the travel surface.
- May require intermittent maintenance work to support continued safe vehicle passage during construction.
- Typical construction disturbance is 16 feet wide. The operational width is 10 feet. The Site Boundary for a new primitive road will be 200 feet wide (100 feet each side of centerline).

**New Bladed Roads.** New bladed roads are characterized as follows:

- Construction of new road prism across side slope over 8 percent or over rough and uneven terrain.
- Typical construction disturbance is 16 feet wide, but can be up to 35 feet wide as dictated by terrain and soil conditions. The operational width is 14 feet. The Site Boundary for a new bladed road will be 200 feet wide (100 feet each side of centerline).

**Existing Roads – Substantial Modification.** Existing roads that will require substantial modification are characterized as follows:

- Typical construction disturbance is 16 feet wide, but can be up to 30 feet wide when road modification exceeds 70 percent. The operational width is 14 feet. The Site Boundary for a substantial modification existing road will be 100 feet wide (50 feet each side of centerline)

After construction is completed, any new roads developed for the Project connecting to multi-use areas will be removed and restored to preconstruction conditions, unless the landowner requests otherwise. Roads developed for pulling and tensioning sites will be permanent because they will also provide access to structures for operations and maintenance. Both categories of access roads are shown on maps in Exhibit C of the ASC, Project Location, Attachment C-2.

### **Multi-use Areas**

Construction of the Project will begin with the establishment of multi-use areas. The multi-use areas will serve as field offices; reporting locations for workers; parking space for vehicles and equipment; and sites for material delivery and storage, fabrication assembly of towers, cross arms and other hardware, concrete batch plants, and stations for equipment maintenance. Multi-use areas, each of which is about 30 acres in size, will be located approximately every 15 miles along the corridor.

Helicopter operations may be staged from multi-use areas. Project construction activities potentially facilitated by helicopters may include delivery of construction laborers, equipment, and materials to structure sites; structure placement; hardware installation; and wire stringing operations. Helicopters may also be used to support the administration and management of the Project by IPC, the Construction Contractor, or both. Where construction access by truck is not practical due to steep terrain, all-terrain vehicle trails may be utilized to support maintenance activities. The use of helicopter construction methods for this Project will not change the length of the access road system required for operating the Project because vehicle access is required to each tower site regardless of the construction method employed.

Multi-use areas will be fenced and their gates locked. Security guards will be stationed where needed. In some cases, the multi-use area may need to be scraped by a bulldozer and a temporary layer of rock laid to provide an all-weather surface. Unless otherwise directed by the landowner, the rock will be removed from the multi-use area upon completion and the area will be restored.

### **Pulling and Tensioning Sites**

Pulling and tensioning sites (299) will be required approximately every 1.5 to 2 miles along the ROW and at angle points greater than 30 degrees and will require approximately 5 acres at each end of the wire section to accommodate required equipment. Equipment at sites required for pulling and tensioning activities will include tractors and trailers with spooled reels that hold the conductors and trucks with the tensioning equipment.

Four pulling and tensioning Sites are designated as light-duty fly yards. Light-duty fly yards are similar to the multi-use areas but are smaller in size. All of the equipment and activities that occur at a multi-use area may also occur at a light-duty fly yard. The exception would be that, no oil and gas or explosive storage would occur and no batch plants would be located at the light-duty fly yards.

### **Typical Site Preparation**

Individual structure work areas will be cleared as necessary to install the transmission line structures and to facilitate access for future operation and maintenance activities. As necessary, the blading of individual structure work areas will be done using a bulldozer to blade only the minimum required area, and to the extent practical, blading of native plant communities will be minimized. For all structure types, the structure work area will be cleared of vegetation only to the extent necessary and any removed topsoil will be stockpiled and stabilized to limit erosion.

At each single-circuit 500-kV structure location, an area approximately 250 feet by 250 feet will be needed for construction laydown, structure assembly, and erection, depending on slope. This area will provide a safe working space for placing equipment, vehicles, and materials. Upon completion of construction, areas not needed for normal transmission line maintenance, including fire and personnel safety clearance areas, will be graded to blend as near as possible with the natural contours, then revegetated as required.

Additional equipment may be required if solid rock is encountered at a structure location. Rock-hauling, hammering, or blasting may be required to remove the rock. Excess rock that is too large in size or volume to be spread at the individual structure sites will be hauled away and disposed of at approved landfills or at a location specified by the landowner or land-management agency.

### **Structure Foundations**

The 500-kV single-circuit lattice steel structures each require four foundations, one on each of the four corners of the lattice towers. The foundation style, diameter, and depth will be determined during final design and are dependent on structure loading conditions and the type of soil or rock present at each specific site. The preliminary design indicates the foundations for the single-circuit tangent lattice towers will be composed of steel-reinforced concrete drilled piers with a typical diameter of 4 feet and a depth of approximately 15 feet.

For the 500-kV H-frame structures, each tangent structure will require two foundations, one for each pole that comprises the H-frame structure. Angle and dead-end structures will use a three-pole structure, each with its own foundation. They will be steel-reinforced drilled piers with a typical diameter of 6 to 8 feet and a depth of approximately 25 to 40 feet.

### **Appendix K Work in Waters and Wetlands**

The proposed project crosses both wetlands and streams. There are a number of different construction methods that could potentially be used for any given crossing. Presented below is a brief description of the available construction methods applicable to the Project. This information is not exhaustive; other construction methods may be used that are not recorded here.

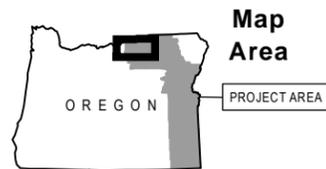
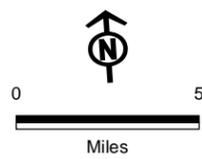
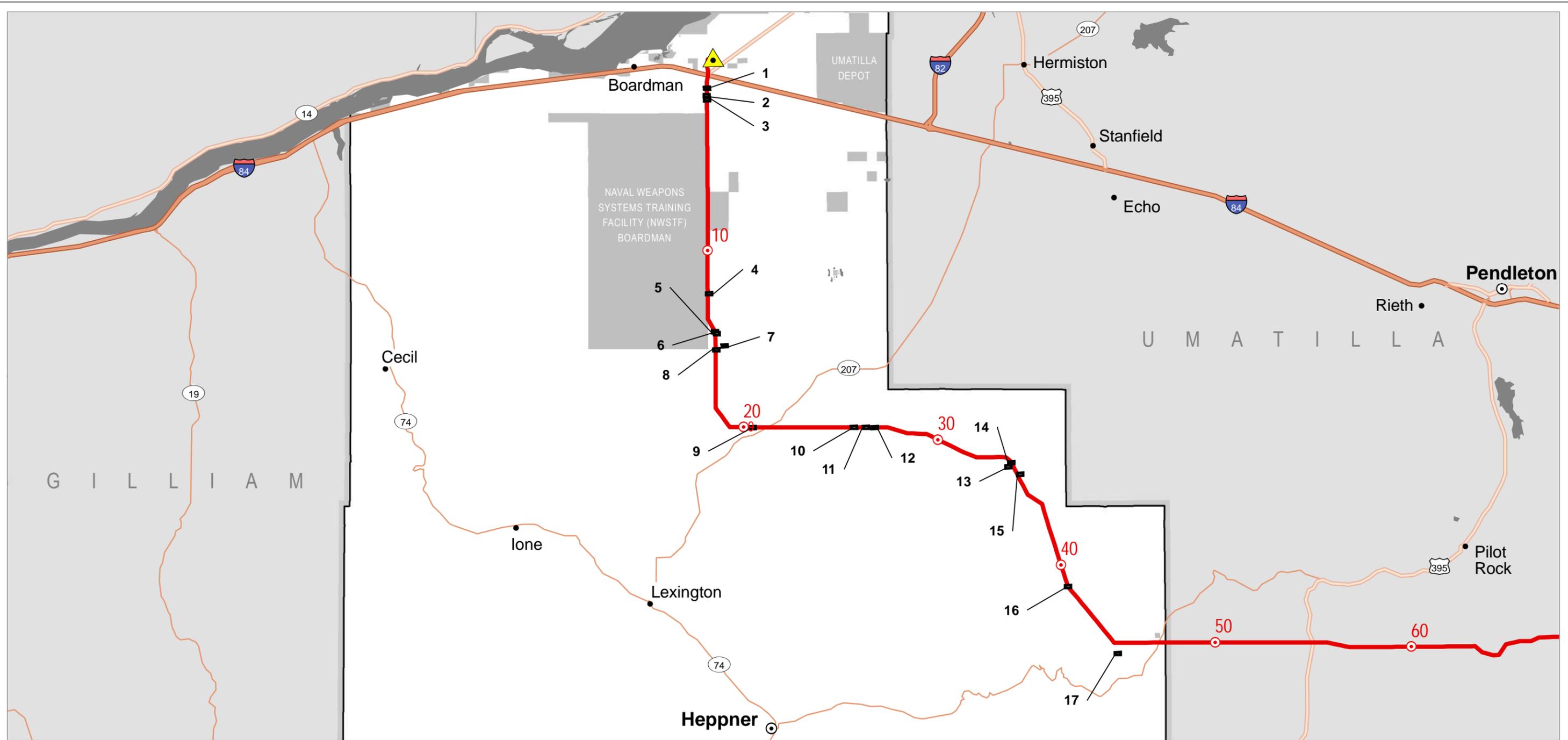
The primary impacts to wetlands and streams will be from improving existing access roads, and constructing new roads and new towers structures. Impacts may include site grading and placing geotextile separation fabric and crushed rock fill, and compaction for surface stabilization. Structures used at streams crossings such as rail car bridges or timber matting would span the stream above the ordinary high water mark and will be removed following construction. No de-watering of streams is anticipated during construction. There will be no direct effects (removal or fill) during the Project's operation, and roads will be constructed using best management practices to prevent erosion and subsequent sedimentation in waters during the operational life of the Project.

Impact site location topographic maps are provided in Appendix C above. Site plan drawings depicting permanent and temporary impacts to wetlands and waters are provided in Figures K-1 – K-238, below.

Figures K-239 through K-241, below illustrate typical site plans, cross sections, and dimensions for road crossings, and related permanent and temporary impacts in wetlands and other waters, and construction BMPs. Construction work at road crossings of fish bearing streams will not be performed below the ordinary high water mark.

The best available environmental practices pertinent to each construction methodology or environmental protection measures will be employed. These practices include, but are not necessarily limited to the following:

- Prior to initial construction activities wetland and stream boundaries will be clearly marked with high visible flagging, signs, and/or construction fencing to delineate the limits of work in and near sensitive water resources.
- A storm water pollution prevention plan (SWPPP) and erosion and sediment control plan (ECSP) will be created and implemented to cover construction related ground disturbing activities associated with this project. The SWPPP and ECSP will specify best management practices (BMPs) that will be implemented in order to minimize sediment and other pollutants from impacting waters of the WOS/WOUS.
- Stream crossings and in-water work will follow preferred work periods outlined in the ODFW Guidelines for Timing of In-Water Work to Protect Fish and Wildlife Resources (2008). Crossings will be reviewed with ODFW and follow the Fish Passage Plans and Designs document for this Project (Tetra Tech 2015).
- Temporary and permanent BMPs will be used to control erosion, sediment and other pollutants associated with construction related activities. BMPs will be installed and maintained until disturbed areas meet final stabilization criteria.
- Temporary impacts to wetlands and other non-wetland waters will be rectified within 24-months from the date the impact occurred (see Site Rehabilitation Plan in Appendix S), and as specified in conditions of the Removal-Fill Permit.
- Temporary impact areas will be returned to their original contour, mulched, and replanted with native plants appropriate for the site location.
- During O&M activities IPC will use existing stream crossings or new, permanent crossings that were approved as part of the Project, and IPC will not create additional crossings without prior agency permitting and approval.



**Project Features**

- Proposed Route
- Alternative
- ▲ Stations
- ⊙ Ten Mile Marker

**Map Index**

- Map Tile (Map #)



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

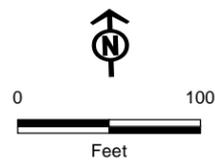
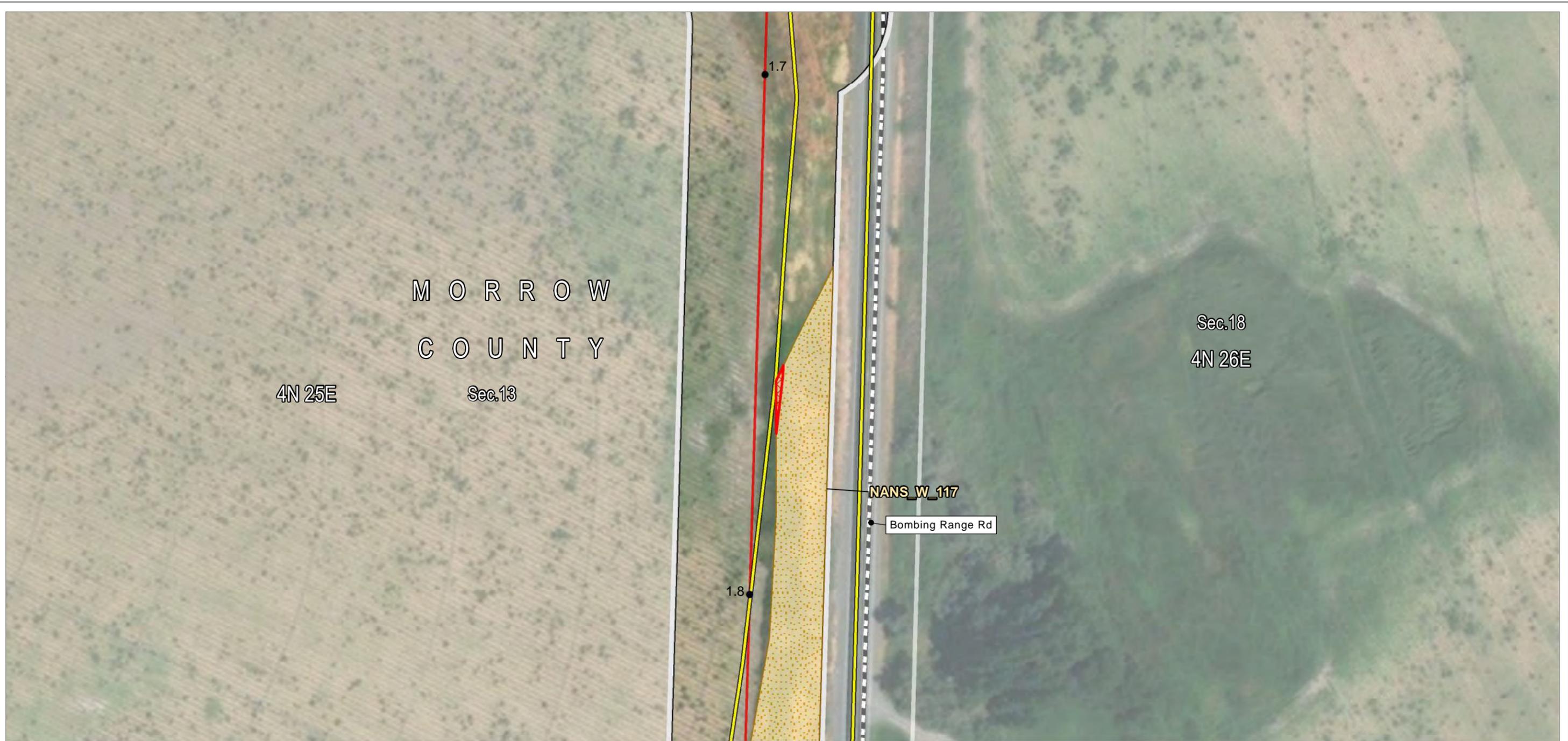
**Appendix K  
Joint Permit Application  
Location Map**

Morrow County

Map Index

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Mileposts
- Tenth-mile

- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements

- Transportation
- Other Major Roads
- Rivers, Streams, and Canals

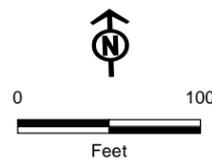
**Wetland**

- NANS Wetland (NWI)



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-1**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Morrow County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

**Mileposts**

- Tenth-mile
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- New Road, Primitive

**Transportation**

- Other Major Roads
- Rivers, Streams, and Canals

**Wetland**

- NANS Wetland (NWI)



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-2**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Morrow County

MORROW  
COUNTY

4N 25E

Sec.24

NANS\_W\_119

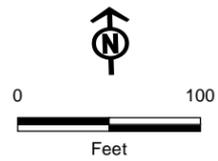
2.3

2.4

Bombing Range Rd

4N 26E

Sec.19



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- New Road, Primitive

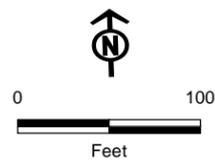
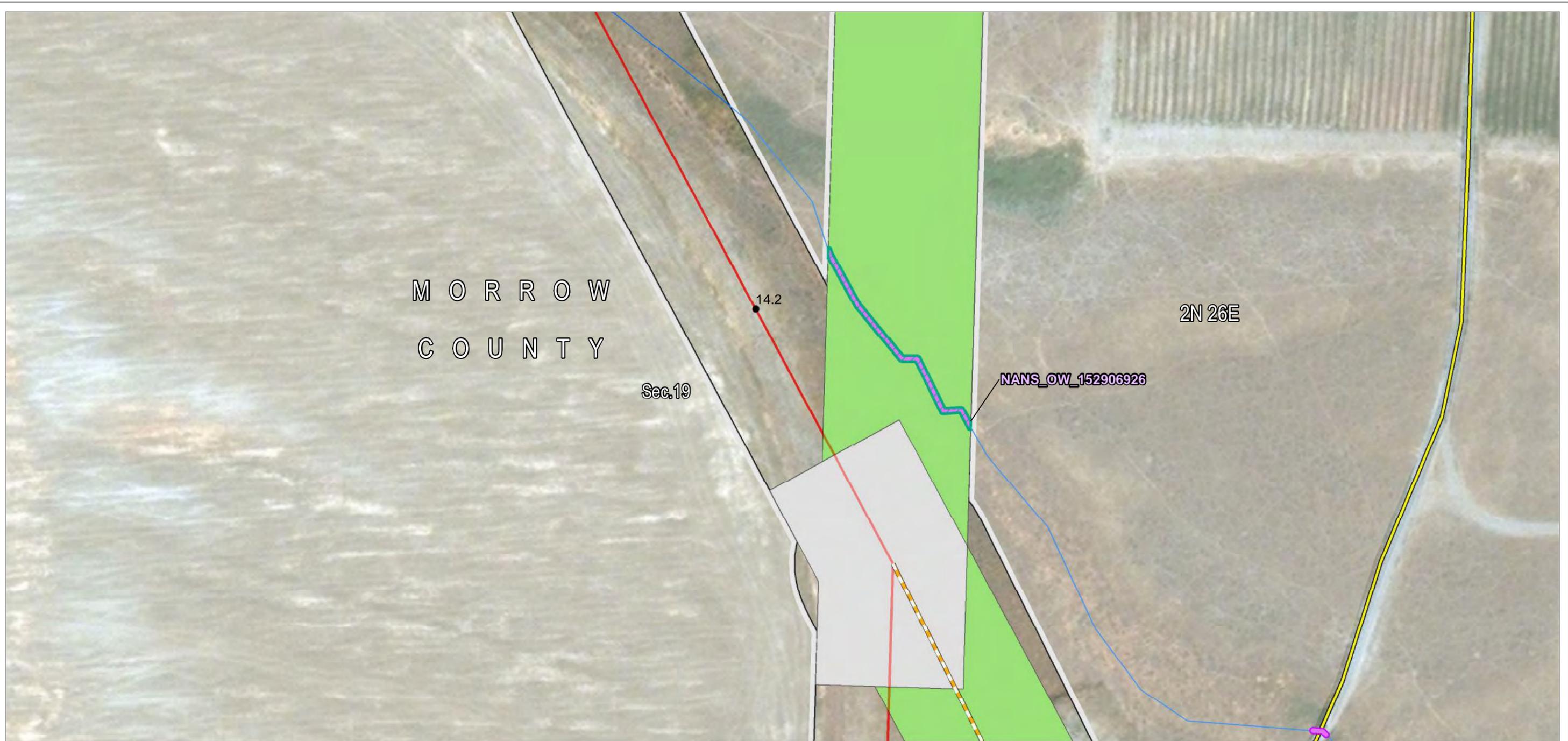
- Transportation
- Other Major Roads
- Rivers, Streams, and Canals
- Wetland
- NANS Wetland (NWI)



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-3**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Morrow County





**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- Other Waters
- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

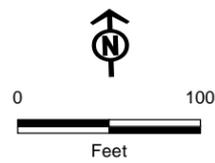
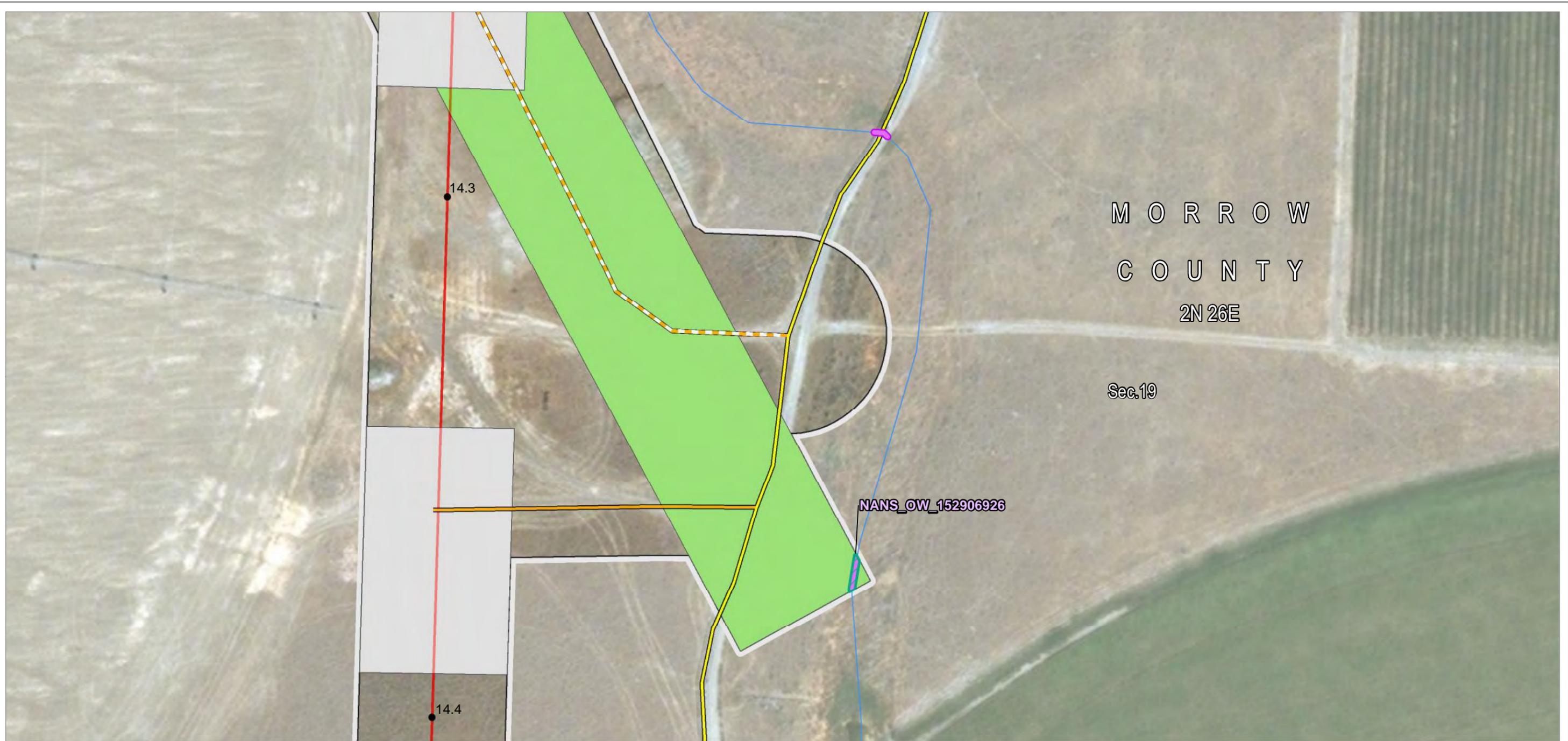
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
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**Attachment K-5**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Morrow County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

**Mileposts**

- Tenth-mile
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- Existing Road, Substantial Modification, 21-70% Improvements

- New Road, Primitive
- Rivers, Streams, and Canals

**Other Waters**

- NANS Streams (NHD)
- Stream Impact Type
- Temporary

- Permanent

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-6**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Morrow County

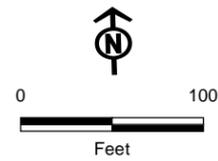


MORROW  
COUNTY

NANS\_OW\_145365444

Sec.19

2N 26E



Map Area

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

Site Boundary

Proposed Route

Construction Access

Existing Road, Substantial Modification, 21-70% Improvements

Rivers, Streams, and Canals

**Other Waters**

NANS Streams (NHD)

Stream Impact Type

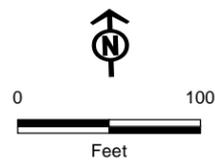
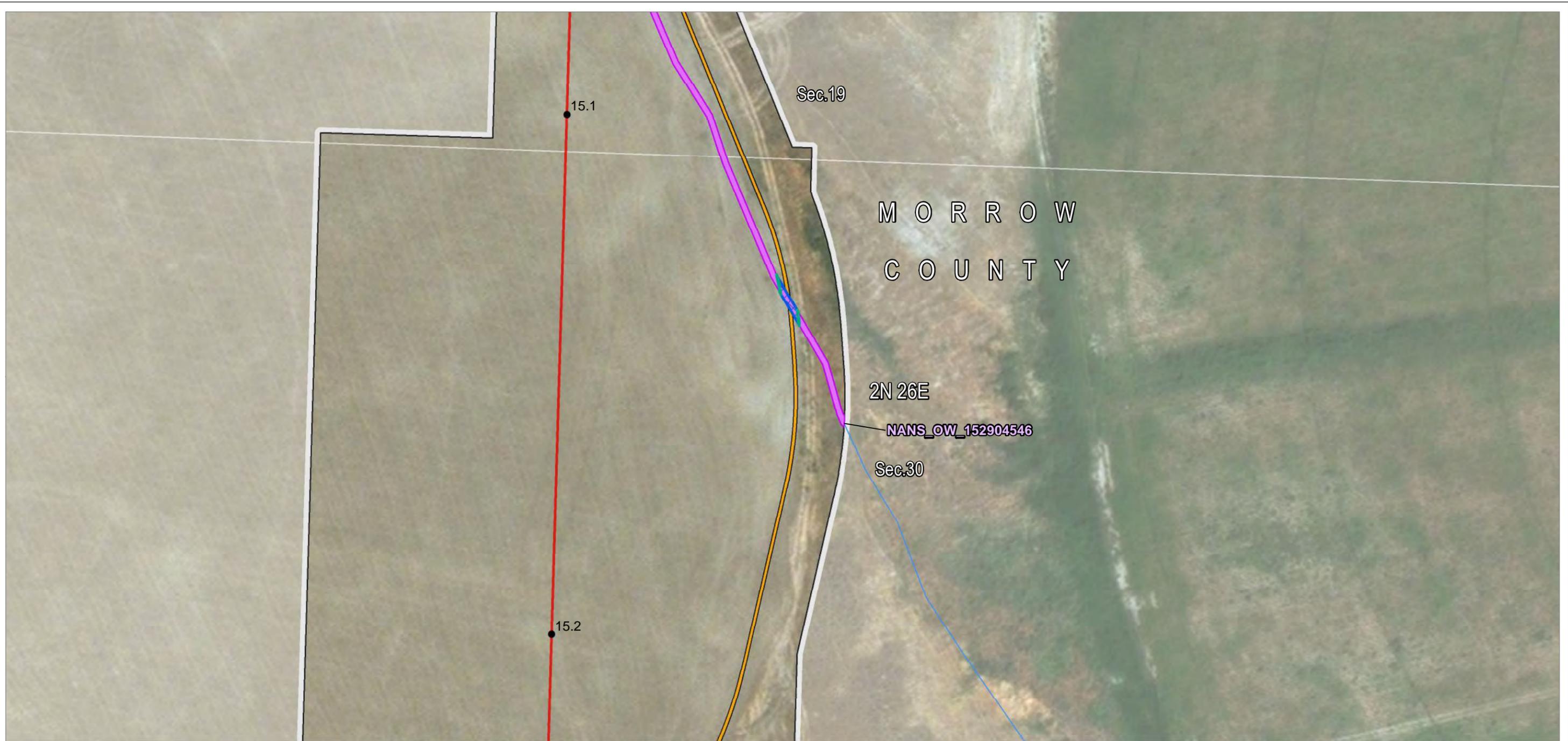
Temporary

Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-7**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Morrow County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Mileposts
- Tenth-mile

- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- Rivers, Streams, and Canals

- Other Waters
- NANS Streams (NHD)

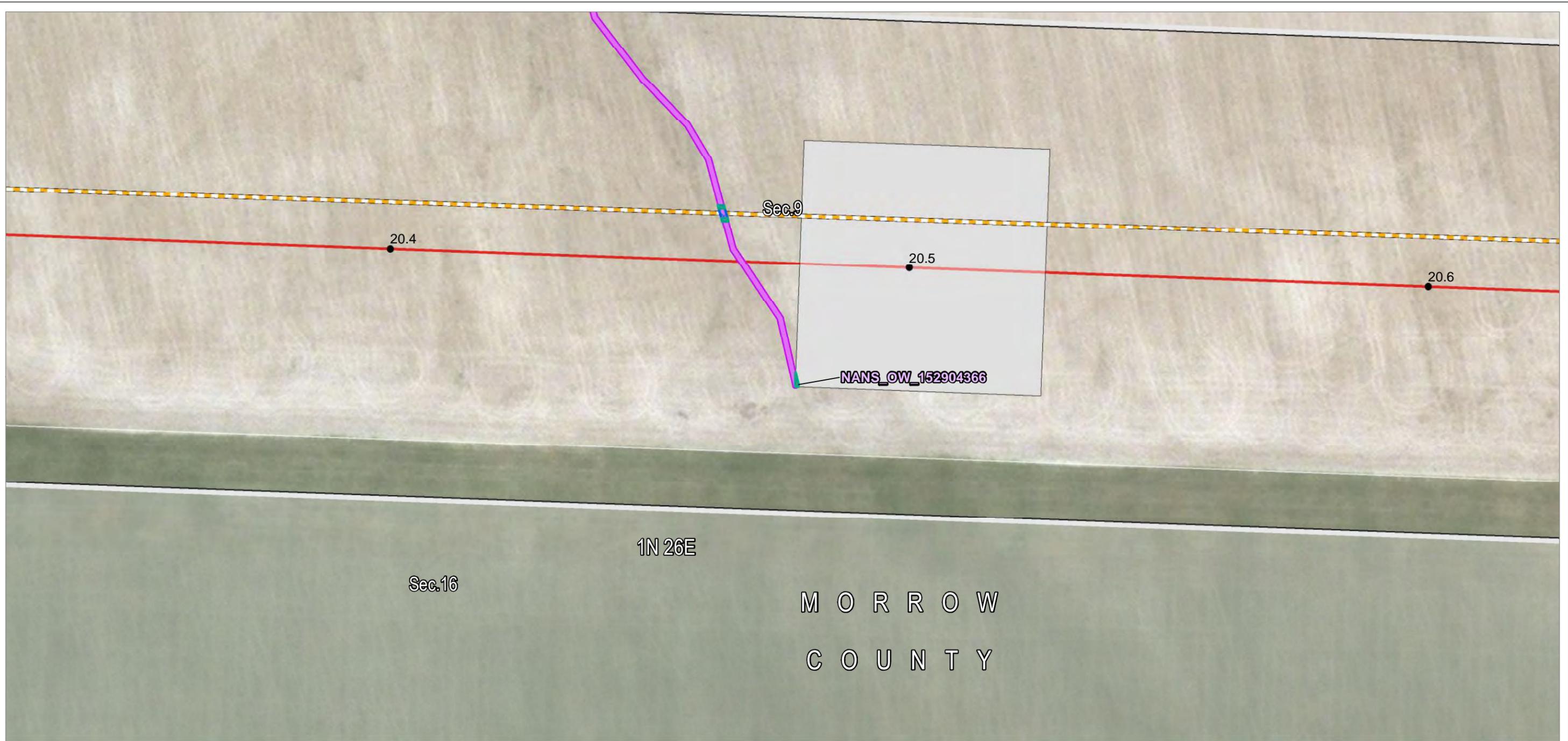
**Stream Impact Type**

- Temporary
- Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-8  
Wetland and Other Waters  
Joint Permit Application  
Detail Maps  
Morrow County**



1N 26E

Sec.16

Sec.9

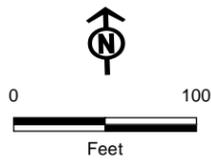
20.4

20.5

20.6

NANS\_OW\_152904366

MORROW  
COUNTY



Map Area

**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- New Road, Primitive
- Rivers, Streams, and Canals

- Other Waters
- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-9**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Morrow County

1N 27E

MORROW  
COUNTY

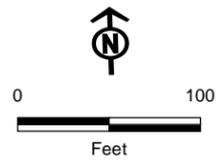
NANS\_OW\_160621034 Sec.8

Sec.17

25.5

25.6

25.7



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- New Road, Primitive
- Rivers, Streams, and Canals

- Other Waters
- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

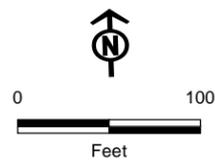
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-10**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Morrow County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

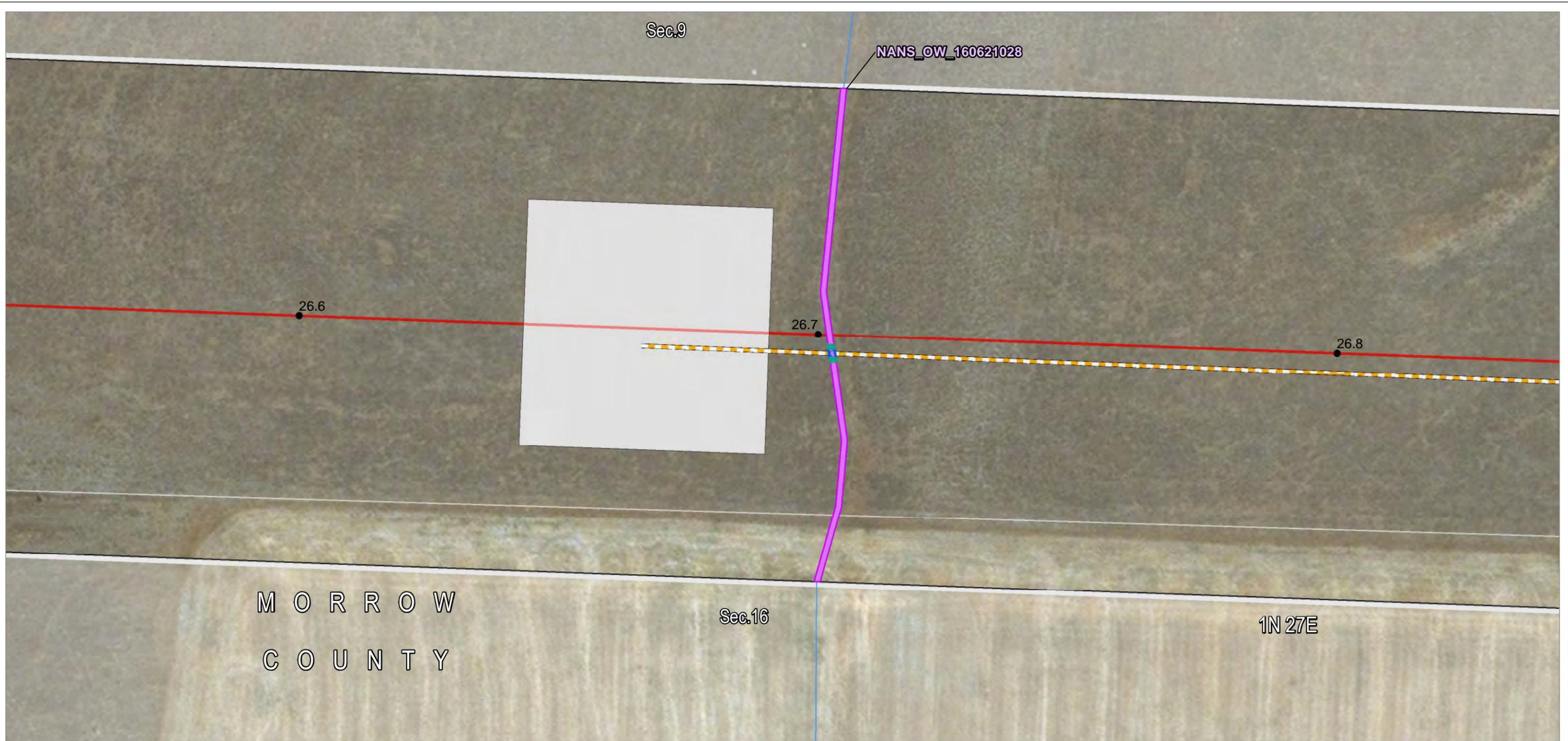
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-11**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Morrow County



Sec.9

NANS\_OW\_160621028

26.6

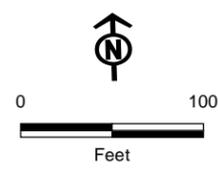
26.7

26.8

MORROW  
COUNTY

Sec.16

1N 27E



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- New Road, Primitive
- Rivers, Streams, and Canals

- Other Waters
- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

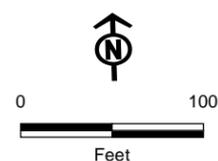
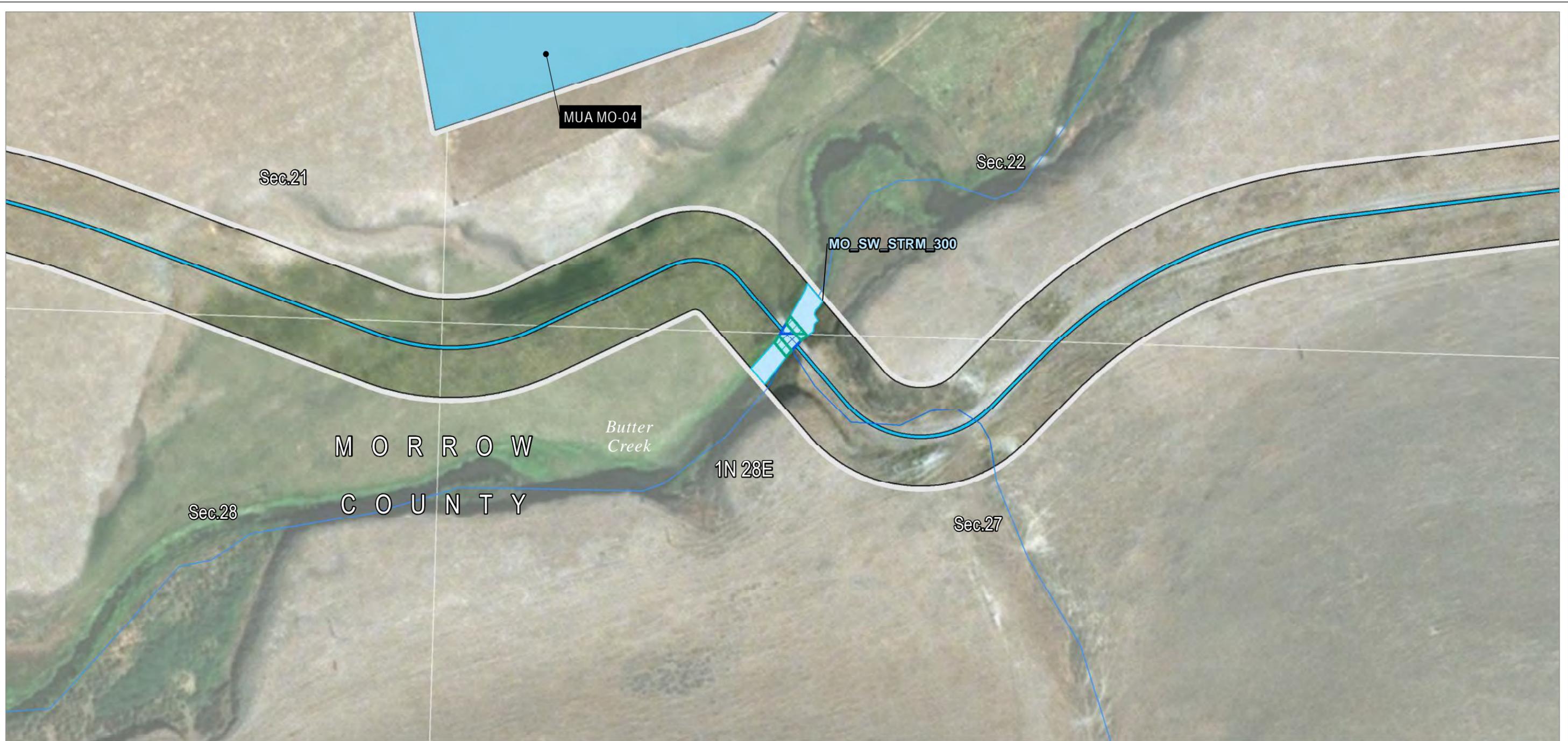


Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-12  
Wetland and Other Waters  
Joint Permit Application  
Detail Maps  
Morrow County**

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

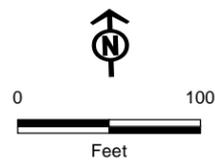
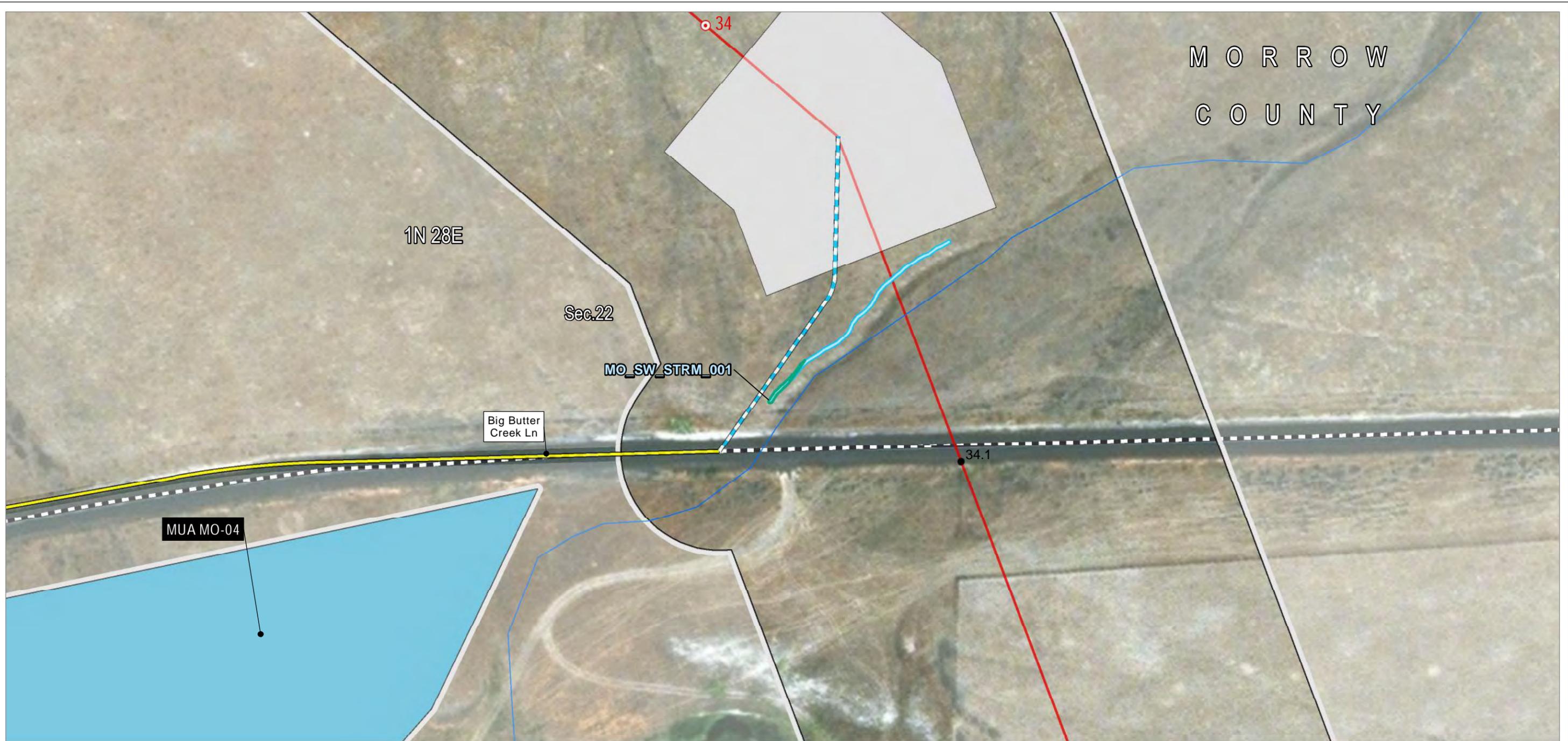
Notes: Elevation Contour lines are not available at this time and will be added at a later date.

- Project Features**
- Site Boundary
  - Proposed Route
  - Work Areas
  - Multi-Use Area
  - Construction Access
  - Existing Road, Substantial Modification, 71-100% Improvements
- Other Waters**
- Rivers, Streams, and Canals
  - Field Survey Streams
  - Stream Impact Type
  - Temporary
  - Permanent

**IDAHO POWER**  
An IDACORP Company

Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-13**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Morrow County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Multi-Use Area
- Structure Work Area

**Mileposts**

- Mile
- Tenth-mile

**Construction Access**

- Existing Road, No Substantial Modification, 0-20% Improvements
- New Road, Bladed

**Transportation**

- Other Major Roads
- Rivers, Streams, and Canals

**Other Waters**

- Field Survey Streams

**Stream Impact Type**

- Temporary

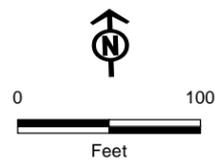
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-14**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Morrow County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

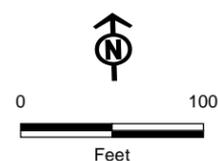
- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- Other Waters
- Field Survey Streams
- Stream Impact Type
- Temporary
- Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-15**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Morrow County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- New Road, Primitive
- Rivers, Streams, and Canals

- Wetland
- NANS Wetland (NWI)

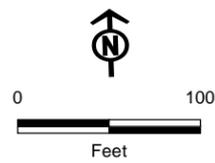
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**IDAHO POWER**  
An IDACORP Company

Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-16**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Morrow County



**Project Features**

- Site Boundary
- Proposed Route
- Construction Access

- Existing Road, Substantial Modification, 21-70% Improvements
- Existing Road, Substantial Modification, 71-100% Improvements

- New Road, Primitive
- Rivers, Streams, and Canals

**Other Waters**

- NANS Streams (NHD)

**Stream Impact Type**

- Temporary

- Permanent

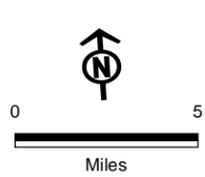
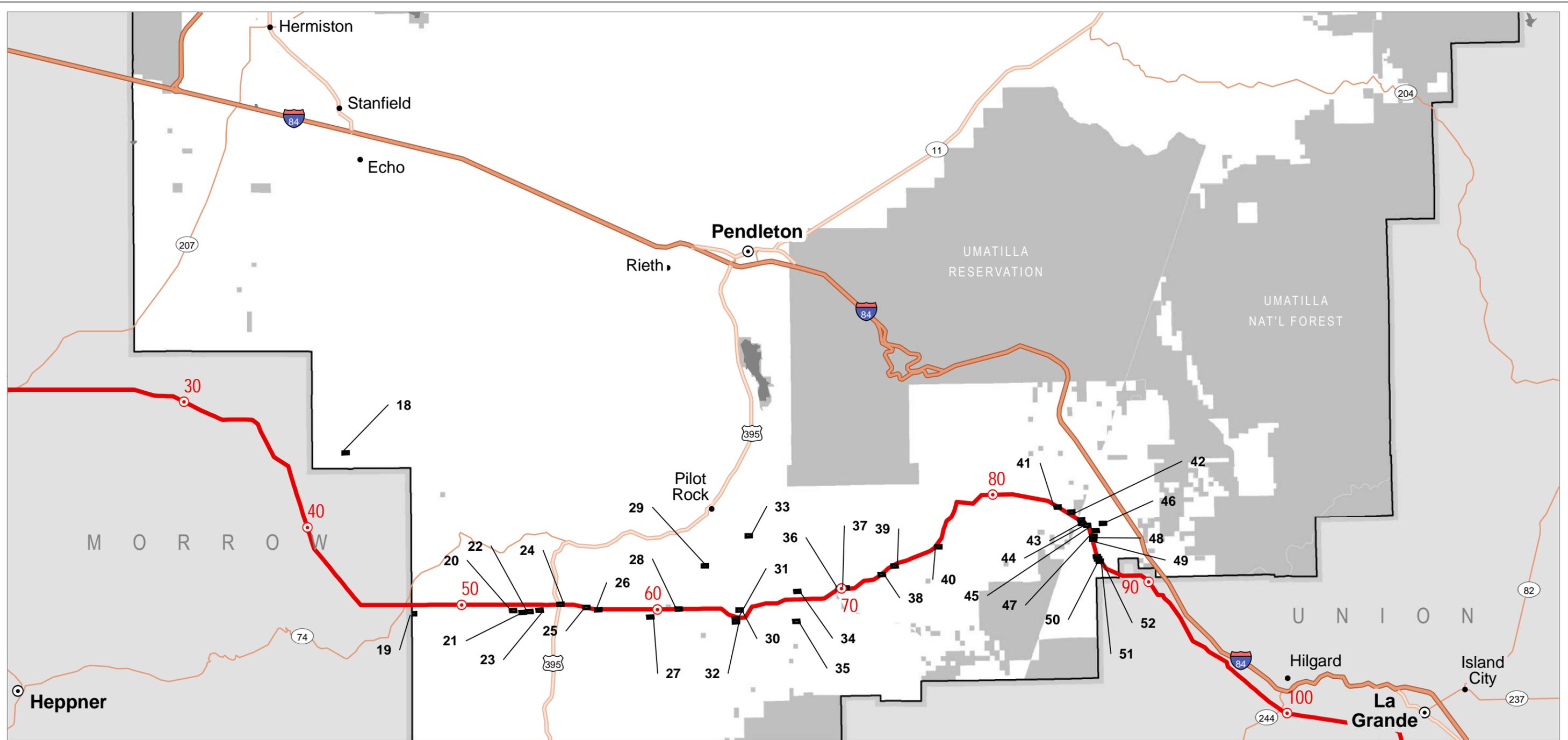
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-17**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Morrow County



**Project Features**

- Proposed Route
- Ten Mile Marker

**Map Index**

- Map Tile (Map #)



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Appendix K  
Joint Permit Application  
Location Map**

Umatilla County

Map Index

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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UMATILLA  
COUNTY

NANS\_OW\_160621491

Butter  
Creek Rd

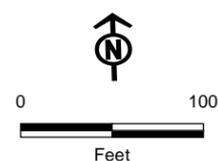
Sec.32

1N 29E

Butter  
Creek

UM\_SW\_STRM\_008

MUA UM-02



**Project Features**

Site Boundary

Proposed Route

Work Areas

Multi-Use Area

Construction Access

Existing Road, No  
Substantial Modification, 0-  
20% Improvements

Transportation

Other Major Roads

Rivers, Streams, and  
Canals

Other Waters

Field Survey Streams

NANS Streams (NHD)

Stream Impact Type

Temporary

Permanent

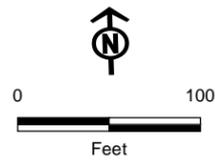
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-18**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



**Project Features**

Site Boundary

Proposed Route

Construction Access

Existing Road, Substantial Modification, 71-100% Improvements

Rivers, Streams, and Canals

**Other Waters**

NANS Streams (NHD)

Stream Impact Type

Temporary

Permanent

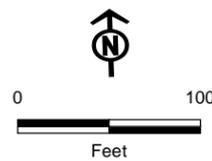
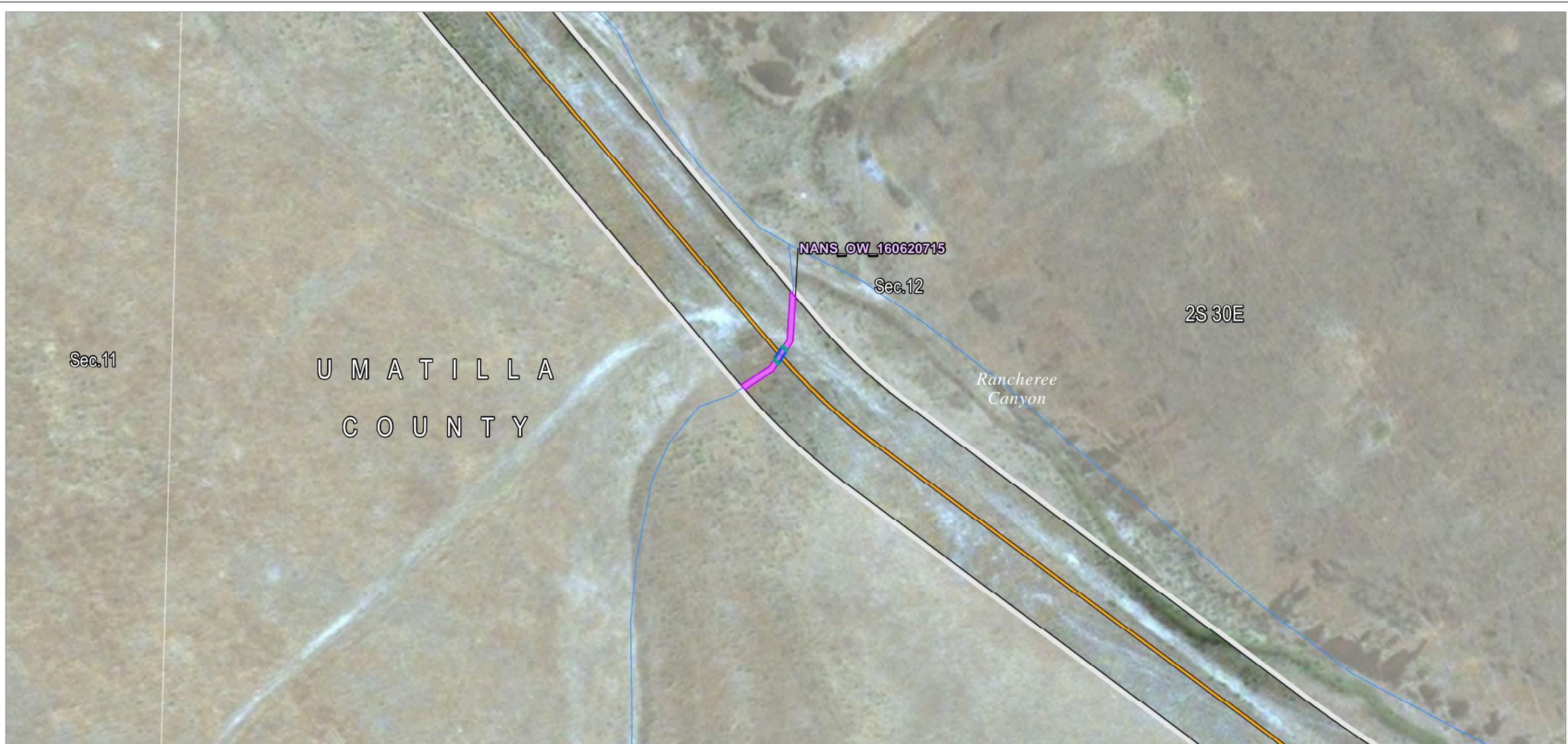
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-19**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

- Site Boundary
- Proposed Route
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- Rivers, Streams, and Canals

**Other Waters**

- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-20**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County

U M A T I L L A  
C O U N T Y

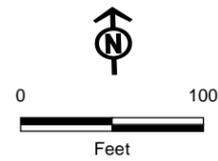
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Sec. 12

NANS\_OW\_160621909

NANS\_OW\_160622367

Rancheree  
Canyon



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

Site Boundary

Proposed Route

Construction Access

Existing Road, Substantial Modification, 21-70% Improvements

Rivers, Streams, and Canals

**Other Waters**

NANS Streams (NHD)

Stream Impact Type

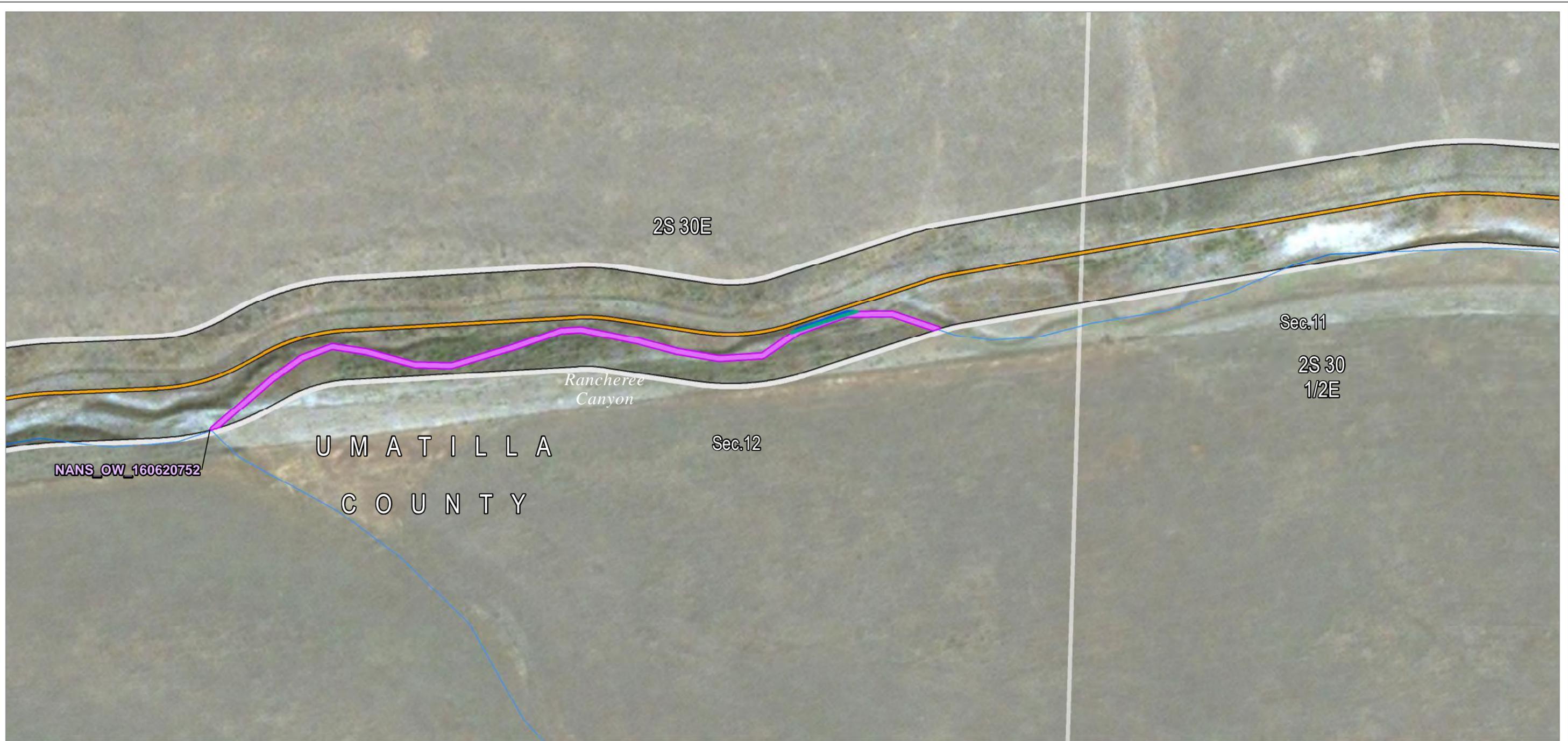
Temporary

Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-21**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



NANS\_OW\_160620752

2S 30E

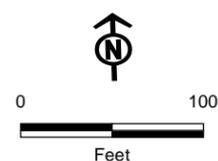
Rancheree Canyon

Sec.11

2S 30  
1/2E

Sec.12

UMATILLA  
COUNTY



**Project Features**

- Site Boundary
- Proposed Route
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- Rivers, Streams, and Canals

**Other Waters**

- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-22**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

2S 30  
1/2E

UMATILLA  
COUNTY  
Sec.12

NANS\_OW\_160620752

Rancheree  
Canyon

**Project Features**

Site Boundary

Proposed Route

Construction Access

Existing Road, Substantial  
Modification, 21-70%  
Improvements

Rivers, Streams, and  
Canals

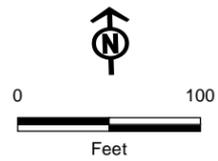
**Other Waters**

NANS Streams (NHD)

Stream Impact Type

Temporary

Permanent



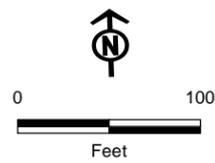
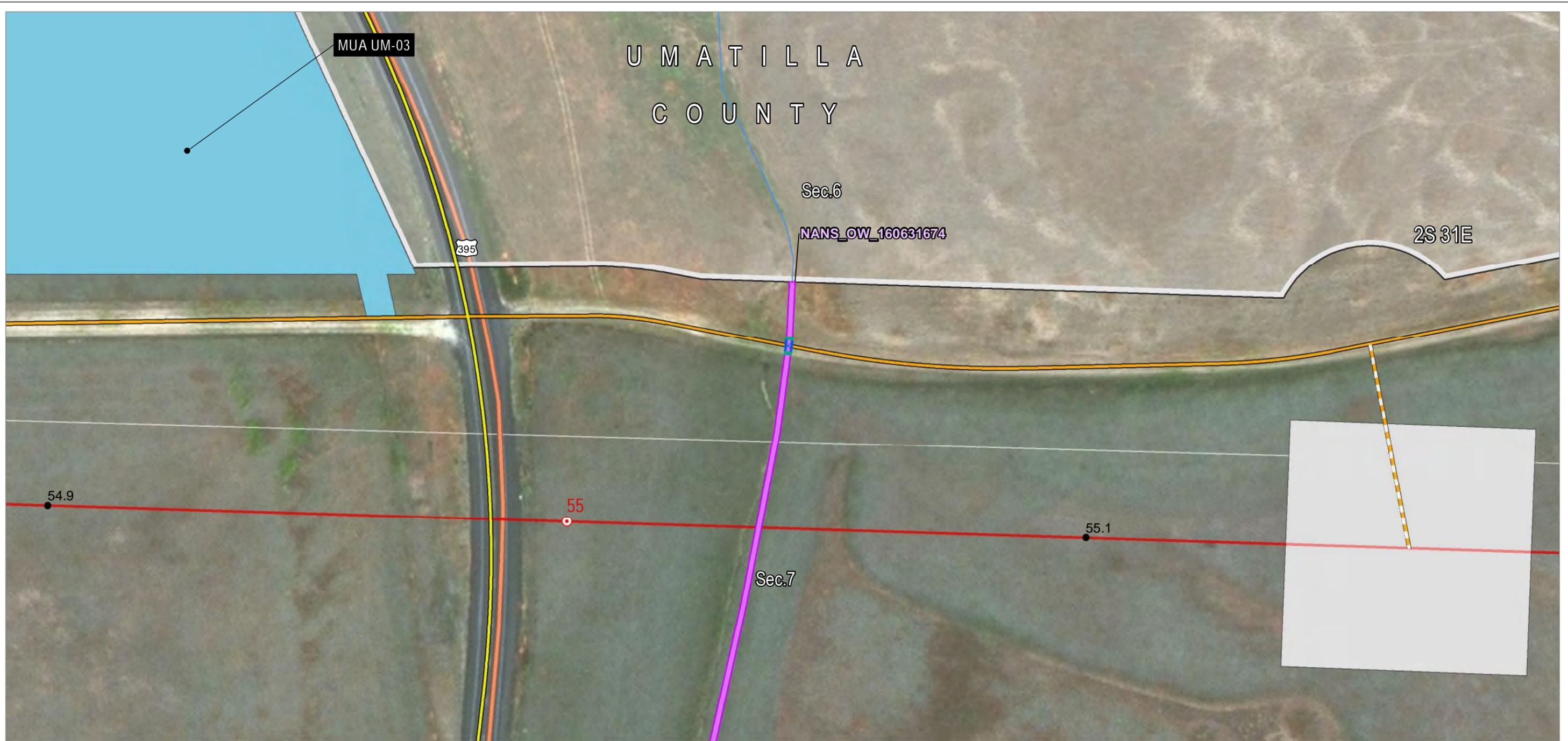
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-23**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Multi-Use Area
- Structure Work Area

**Mileposts**

- Mile
- Tenth-mile
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements

- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Primitive

**Transportation**

- Interstates or Highways
- Rivers, Streams, and Canals

**Other Waters**

- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-24**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County

# UMATILLA COUNTY

Sec.8

2S 31E

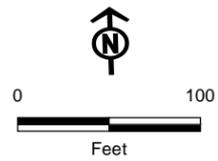
56.3

56.4

56.5

NANS\_OW\_160631692

Rugg  
Canyon



### Project Features

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

### Mileposts

- Tenth-mile
- Construction Access
- New Road, Primitive
- Rivers, Streams, and Canals

### Other Waters

- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

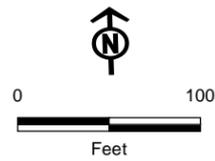
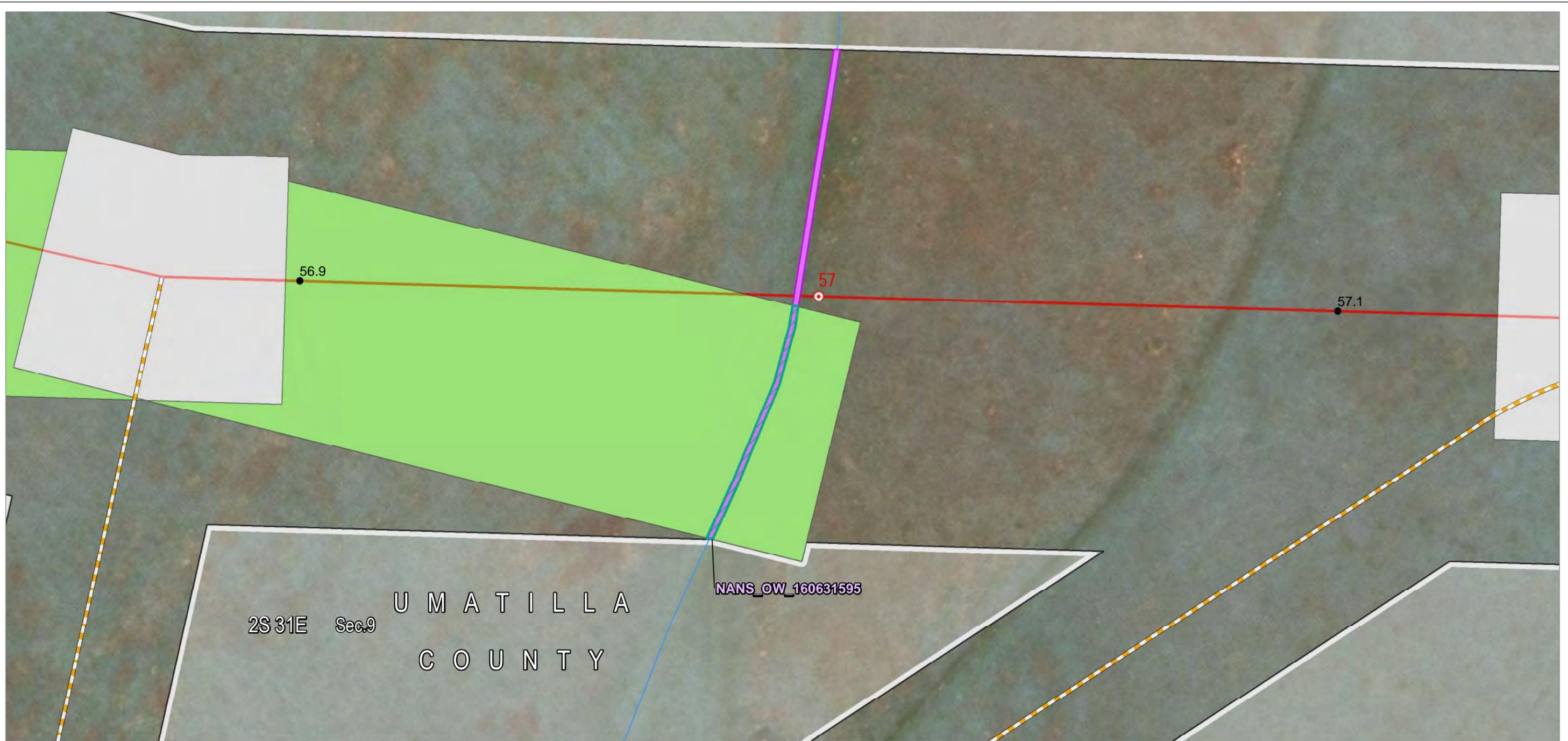
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-25**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Mile
- Tenth-mile
- Construction Access
- New Road, Primitive
- Rivers, Streams, and Canals

- Other Waters
- NANS Streams (NHD)
- Stream Impact Type
- Temporary

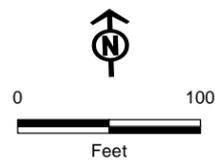
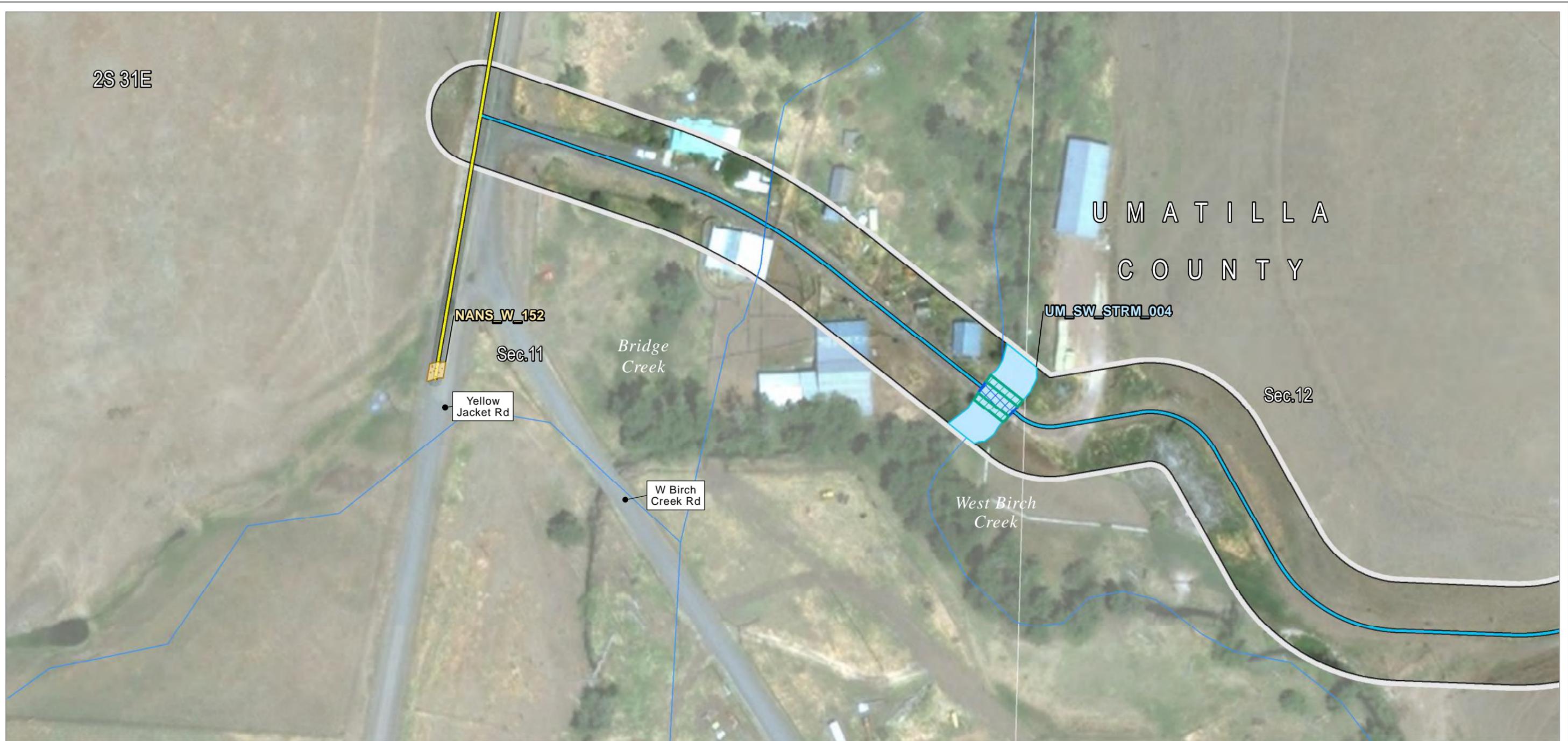
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-26**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



**Project Features**

- Site Boundary
- Proposed Route
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- Existing Road, Substantial Modification, 71-100% Improvements

Rivers, Streams, and Canals

Field Survey Streams

Stream Impact Type

- Temporary
- Permanent

**Wetland**

- NANS Wetland (NWI)

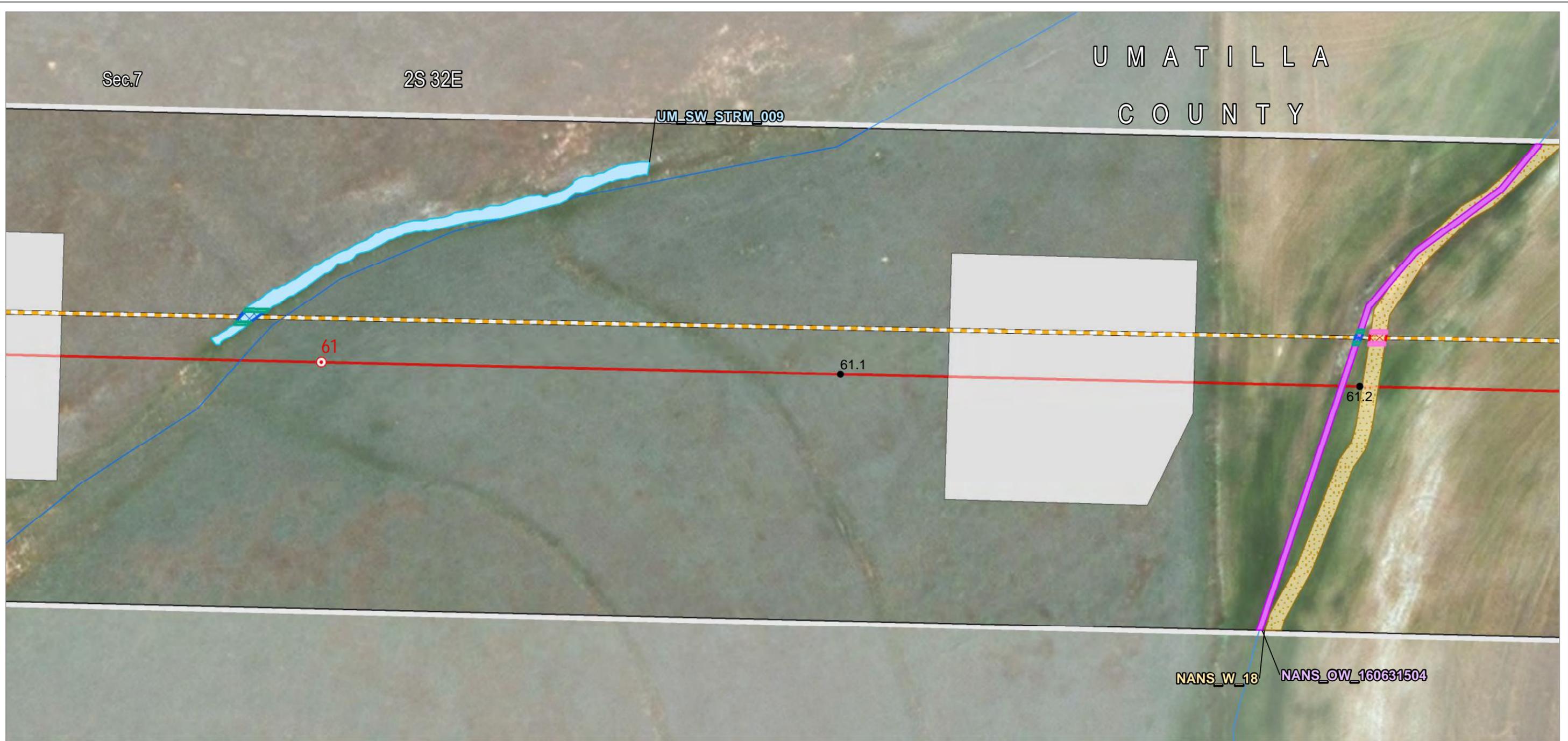
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-27  
Wetland and Other Waters  
Joint Permit Application  
Detail Maps  
Umatilla County**



UMATILLA  
COUNTY

Sec.7

2S 32E

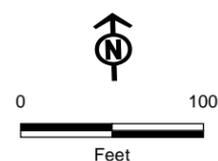
UM\_SW\_STRM\_009

61

61.1

61.2

NANS\_W\_18 NANS\_OW\_160631504



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

- Mileposts
- Mile
- Tenth-mile
- Construction Access
- New Road, Primitive
- Rivers, Streams, and Canals

- Other Waters
- Field Survey Streams
- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

- Wetland
- NANS Wetland (NWI)



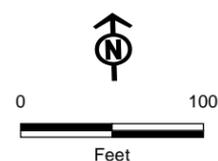
Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-28**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

# UMATILLA COUNTY



**Map Area**

PROJECT AREA

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

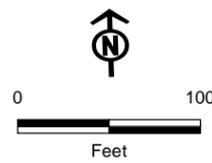
- Site Boundary
- Proposed Route
- Work Areas
- Multi-Use Area
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements

- Rivers, Streams, and Canals
- Field Survey Streams
- Stream Impact Type
- Temporary
- Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-29**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

Site Boundary

Proposed Route

Construction Access

Existing Road, No Substantial Modification, 0-20% Improvements

Existing Road, Substantial Modification, 21-70% Improvements

Rivers, Streams, and Canals

**Other Waters**

Field Survey Streams

Stream Impact Type

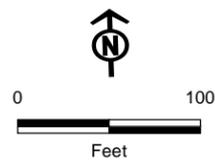
Temporary

Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-30  
Wetland and Other Waters  
Joint Permit Application  
Detail Maps  
Umatilla County**



**Project Features**

- Site Boundary
- Proposed Route
- Work Areas
- Structure Work Area
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements

Rivers, Streams, and Canals

- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

**Wetland**

- NANS Wetland (NWI)

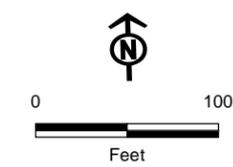
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-31**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



**Project Features**

- Site Boundary
- Proposed Route
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- Rivers, Streams, and Canals

**Other Waters**

- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

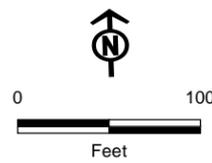


Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-32**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

**Site Boundary**

Proposed Route

**Construction Access**

Existing Road, Substantial Modification, 71-100% Improvements

Rivers, Streams, and Canals

**Other Waters**

NANS Streams (NHD)

**Stream Impact Type**

Temporary

Permanent

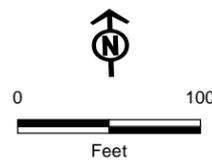
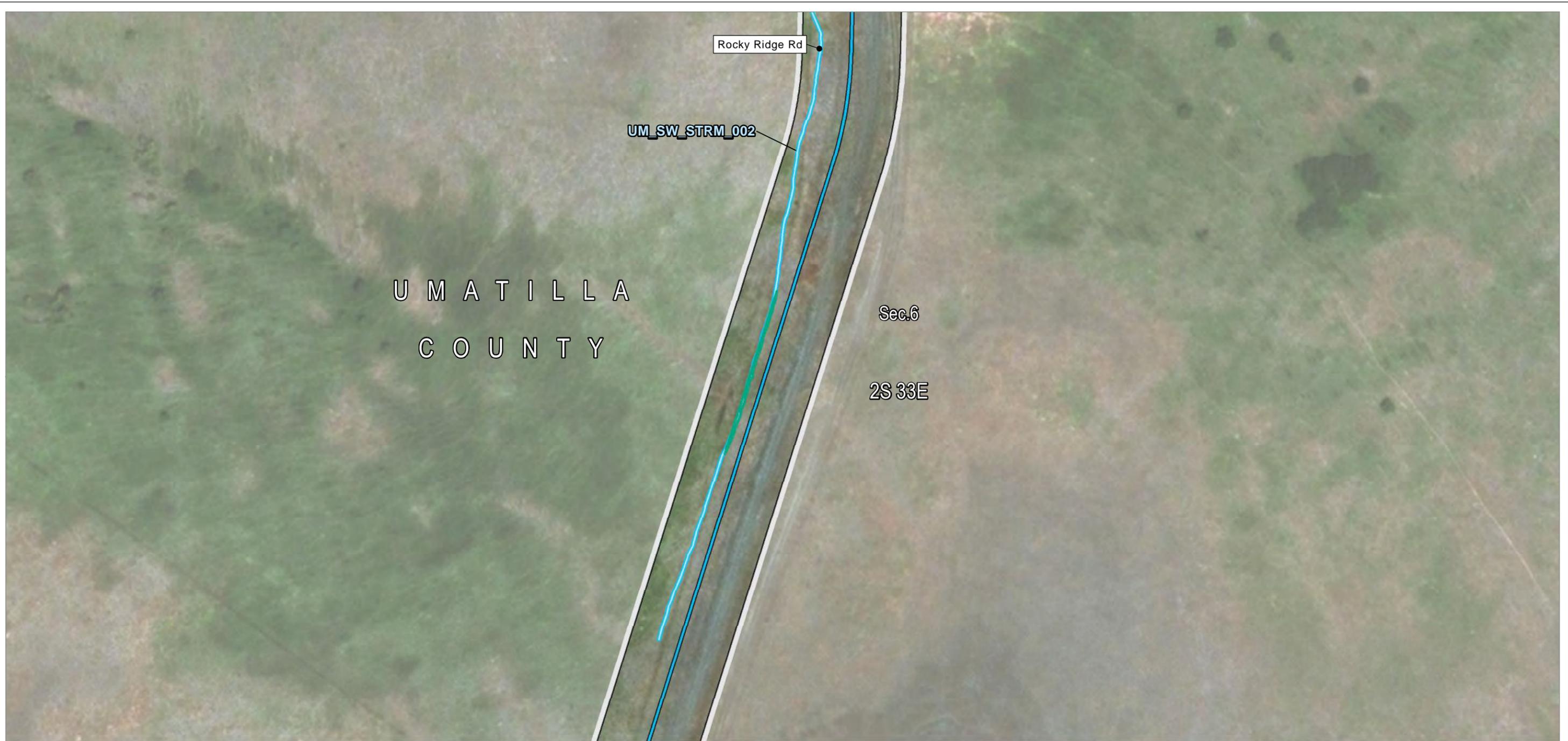
**Wetland**

NANS Wetland (NWI)



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-33  
Wetland and Other Waters  
Joint Permit Application  
Detail Maps  
Umatilla County**



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

Site Boundary

Proposed Route

Construction Access

Existing Road, Substantial Modification, 71-100% Improvements

Rivers, Streams, and Canals

**Other Waters**

Field Survey Streams

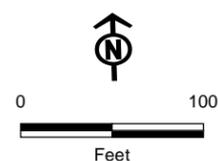
Stream Impact Type

Temporary



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-34**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

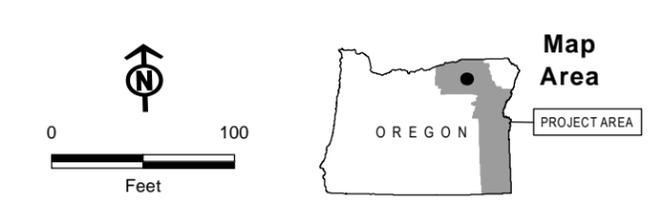
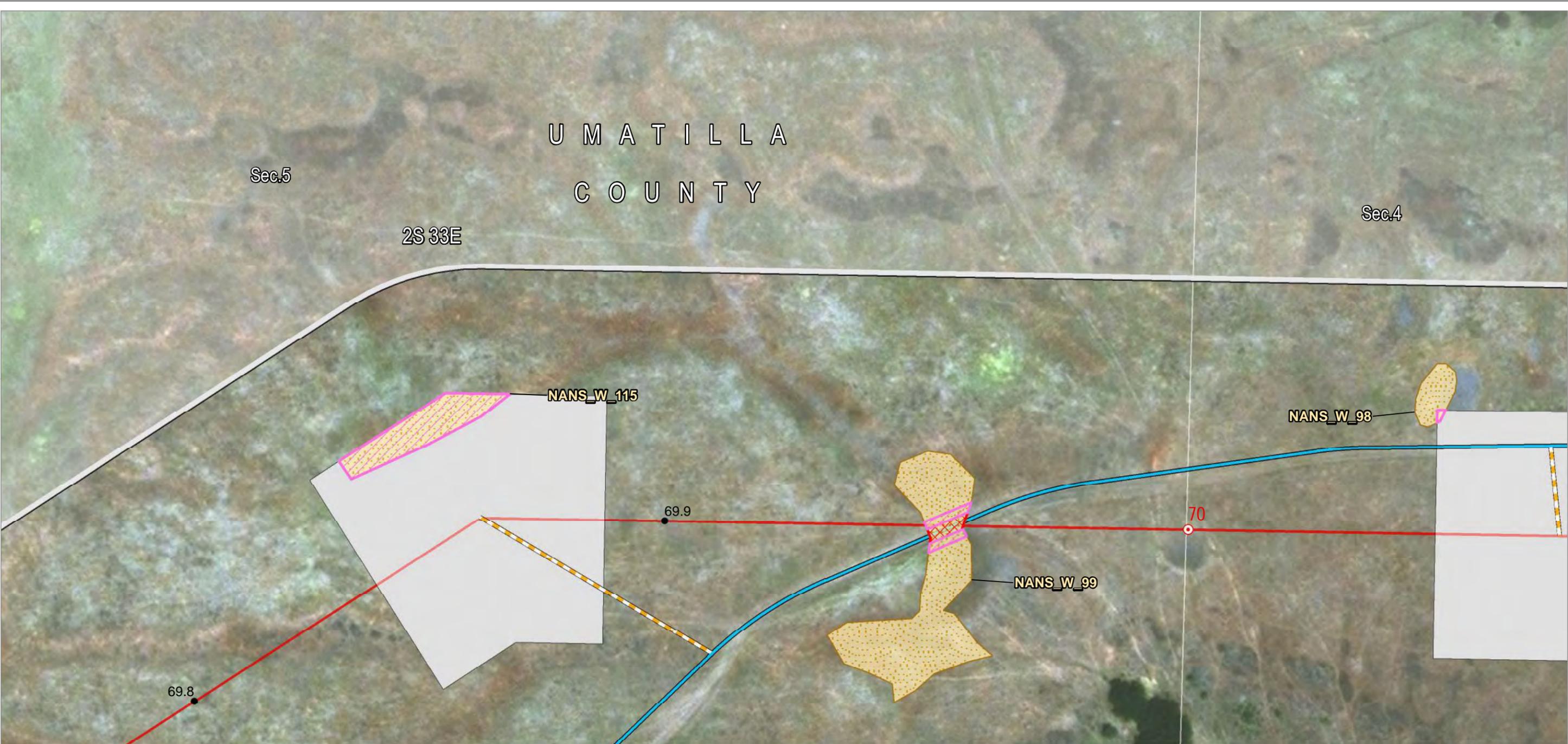
Notes: Elevation Contour lines are not available at this time and will be added at a later date.

- Project Features**
- Site Boundary
  - Proposed Route
  - Work Areas
  - Multi-Use Area
  - Construction Access
  - Existing Road, No Substantial Modification, 0-20% Improvements
- Other Waters**
- Rivers, Streams, and Canals
  - Field Survey Streams
  - Stream Impact Type
  - Temporary



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-35**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

- Mileposts
- Mile
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- Wetland
- NANS Wetland (NWI)

**IDAHO POWER**  
An IDACORP Company

Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-36**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County

# UMATILLA COUNTY

2S 33E

Sec.4

NANS\_W\_109

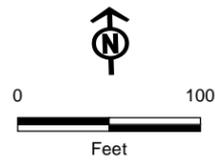
NANS\_W\_108

NANS\_W\_96

70.1

70.2

70.3



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- Wetland
- NANS Wetland (NWI)

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

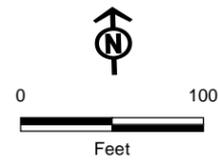


Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-37**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



1S 33E  
 Sec.35  
 U M A T I L L A  
 C O U N T Y



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- Wetland
- NANS Wetland (NWI)

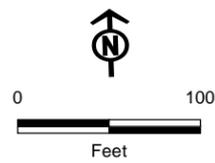
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
 Transmission Line Project  
 Application for Site Certificate

**Attachment K-38**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
 Umatilla County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

- Mileposts
- Mile
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- Wetland
- NANS Wetland (NWI)

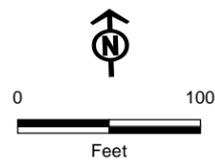
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-39**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements

- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Primitive
- Rivers, Streams, and Canals

- Other Waters**
- NANS Streams (NHD)

**Stream Impact Type**

- Temporary
- Permanent

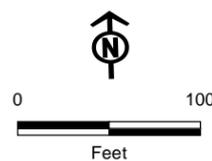
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-40**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



**Project Features**

- Site Boundary
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

**Mileposts**

- Tenth-mile
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- New Road, Bladed

**Rivers, Streams, and Canals**

- Field Survey Streams
- Stream Impact Type
- Permanent

**Wetland**

- Field Survey Wetland

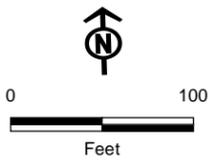
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-41**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- Rivers, Streams, and Canals

- Other Waters
- NANS Streams (NHD)

- Stream Impact Type
- Temporary
- Permanent

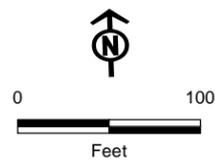
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**IDAHO POWER**  
An IDACORP Company

Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-42**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

**Mileposts**

- Tenth-mile
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- Existing Road, Substantial Modification, 21-70% Improvements

- New Road, Bladed
- Rivers, Streams, and Canals

- Other Waters**
- Field Survey Streams
  - NANS Streams (NHD)

**Stream Impact Type**

- Permanent

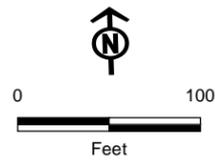
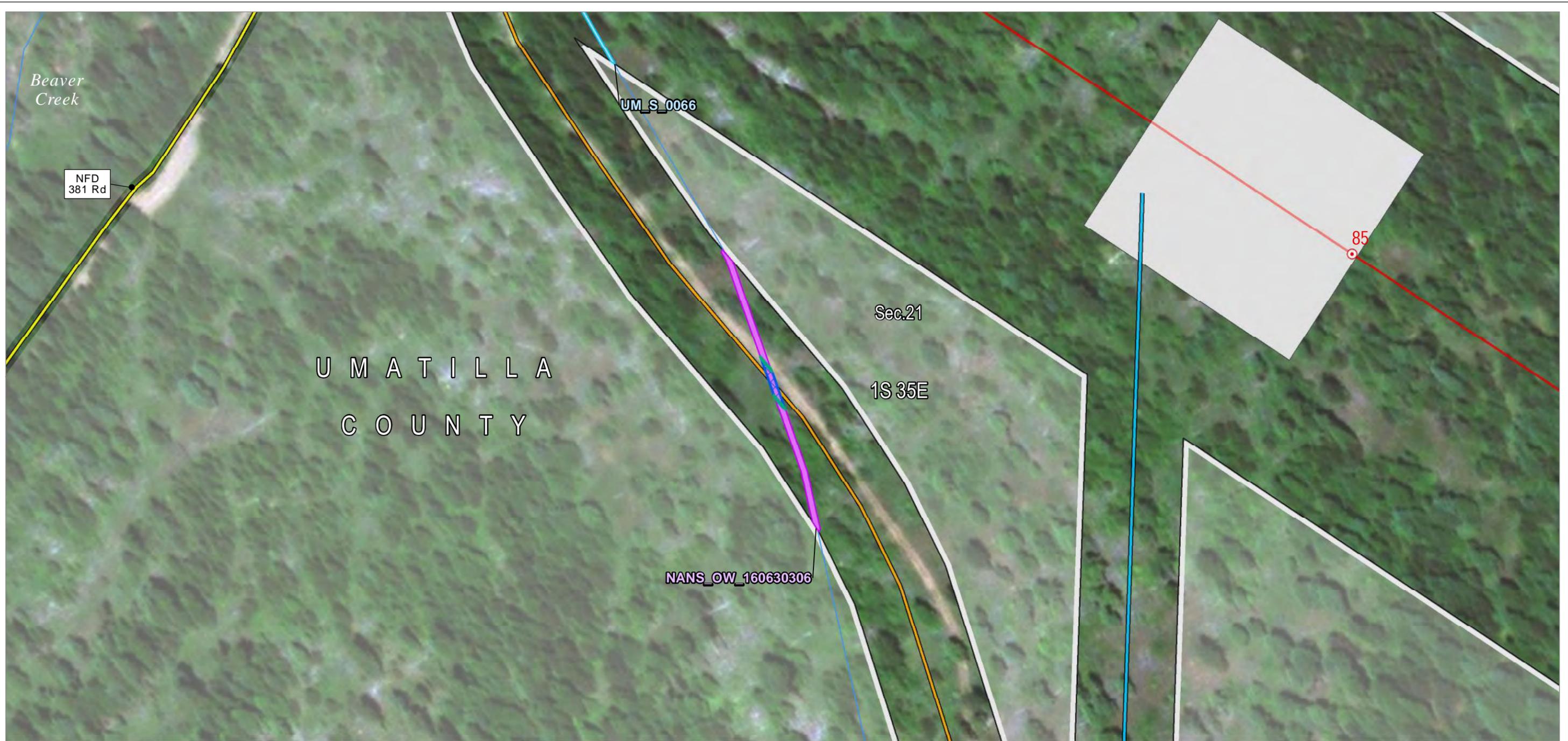
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-43**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

**Mileposts**

- Mile
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- Existing Road, Substantial Modification, 21-70% Improvements

**Existing Road, Substantial Modification, 71-100% Improvements**

- Rivers, Streams, and Canals

**Other Waters**

- Field Survey Streams
- NANS Streams (NHD)

**Stream Impact Type**

- Temporary
- Permanent

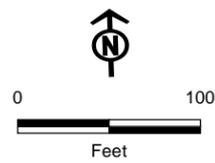
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-44**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

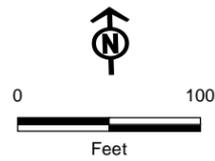
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-45**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



**Map Area**

PROJECT AREA

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

Site Boundary

Proposed Route

Construction Access

Existing Road, Substantial Modification, 21-70% Improvements

Rivers, Streams, and Canals

**Other Waters**

NANS Streams (NHD)

Stream Impact Type

Temporary

Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

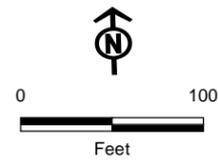
**Attachment K-46**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County

# UMATILLA COUNTY

Sec.22

1S 35E

NANS\_OW\_160630041



**Map Area**

PROJECT AREA

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

Site Boundary

Proposed Route

Construction Access

Existing Road, Substantial Modification, 21-70% Improvements

Rivers, Streams, and Canals

**Other Waters**

NANS Streams (NHD)

Stream Impact Type

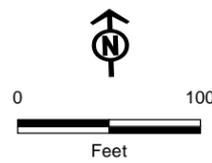
Temporary

Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-47**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- Rivers, Streams, and Canals

**Other Waters**

- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

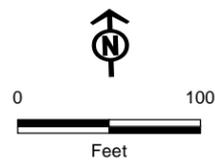
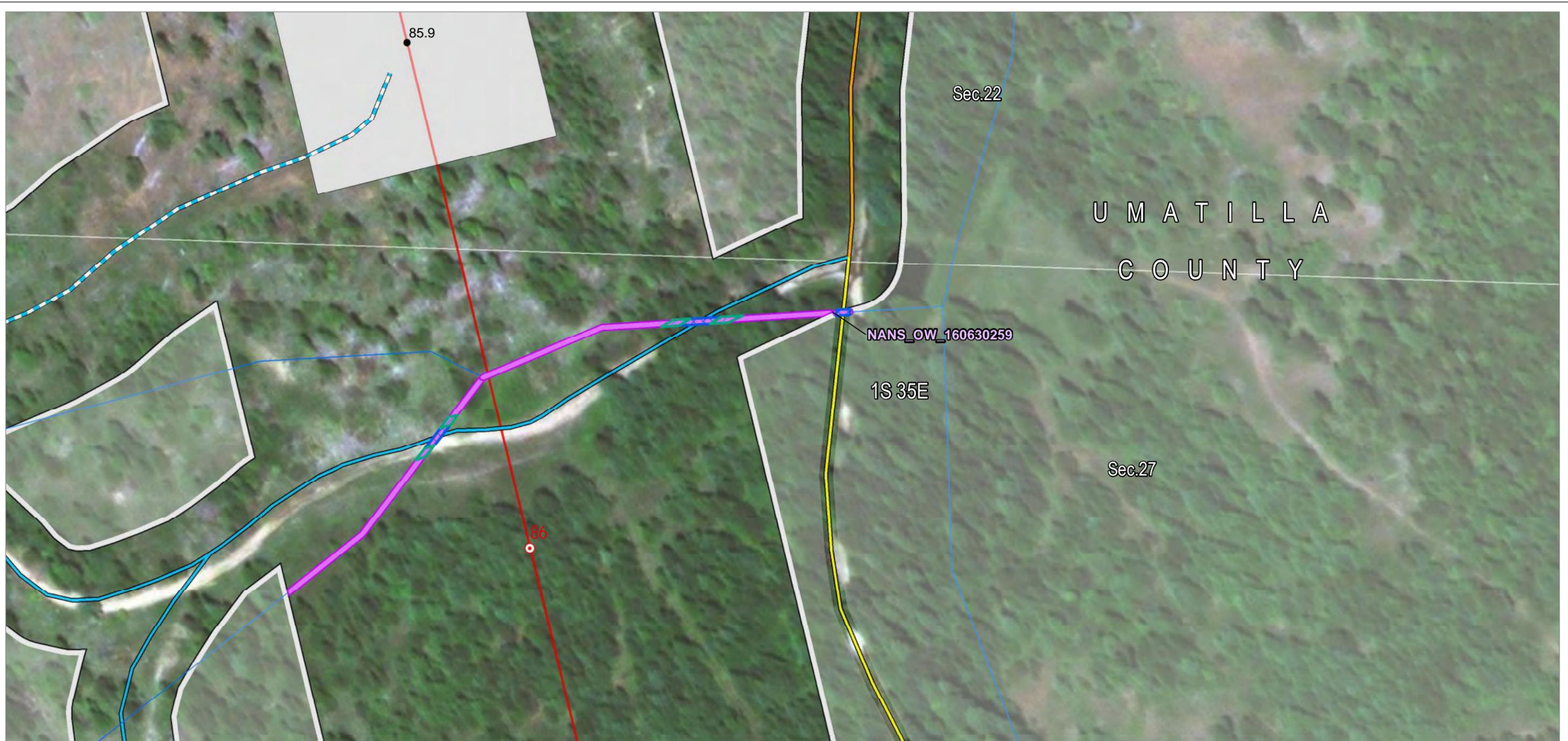
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-48**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

**Mileposts**

- Mile
- Tenth-mile

**Construction Access**

- Existing Road, No Substantial Modification, 0-20% Improvements

- Existing Road, Substantial Modification, 21-70% Improvements

- Existing Road, Substantial Modification, 71-100% Improvements

- New Road, Bladed

- Rivers, Streams, and Canals

**Other Waters**

- NANS Streams (NHD)

**Stream Impact Type**

- Temporary
- Permanent

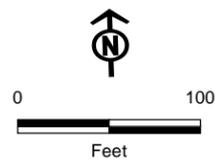
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-49**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

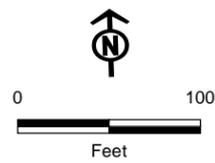
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-50**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Mile
- Tenth-mile
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- Other Waters
- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

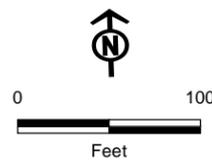
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-51**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- Other Waters
- NANS Streams (NHD)
- Stream Impact Type
- Permanent

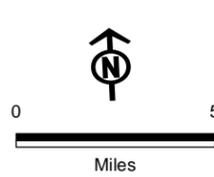
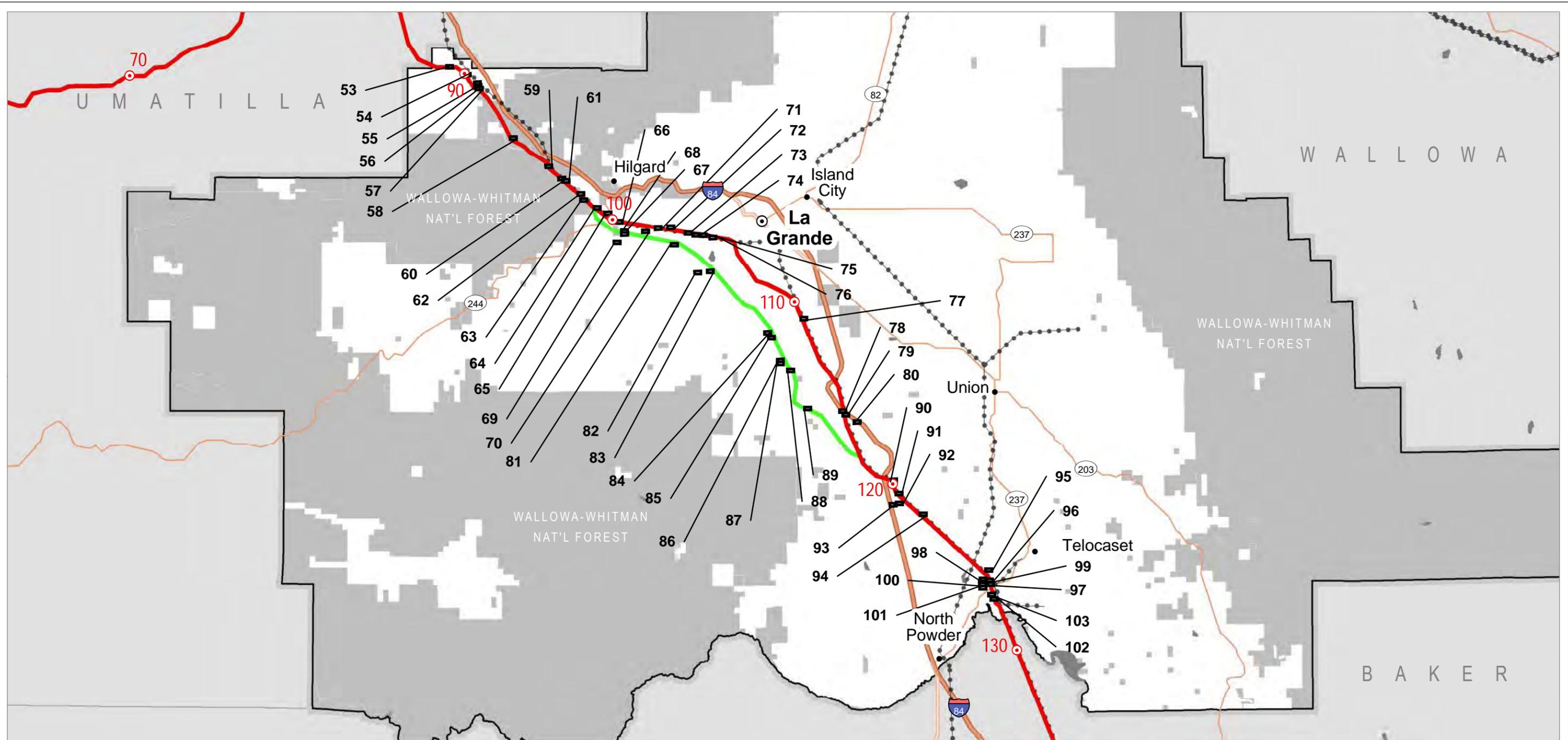
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-52**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Umatilla County



- |                                                    |                                                                                                                   |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Project Features</b>                            | <b>Map Index</b>                                                                                                  |
| <span style="color: red;">—</span> Proposed Route  | <span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> Map Tile (Map #) |
| <span style="color: green;">—</span> Alternative   |                                                                                                                   |
| <span style="color: red;">○</span> Ten Mile Marker |                                                                                                                   |

**IDAHO POWER**  
An IDACORP Company

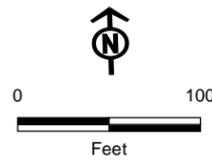
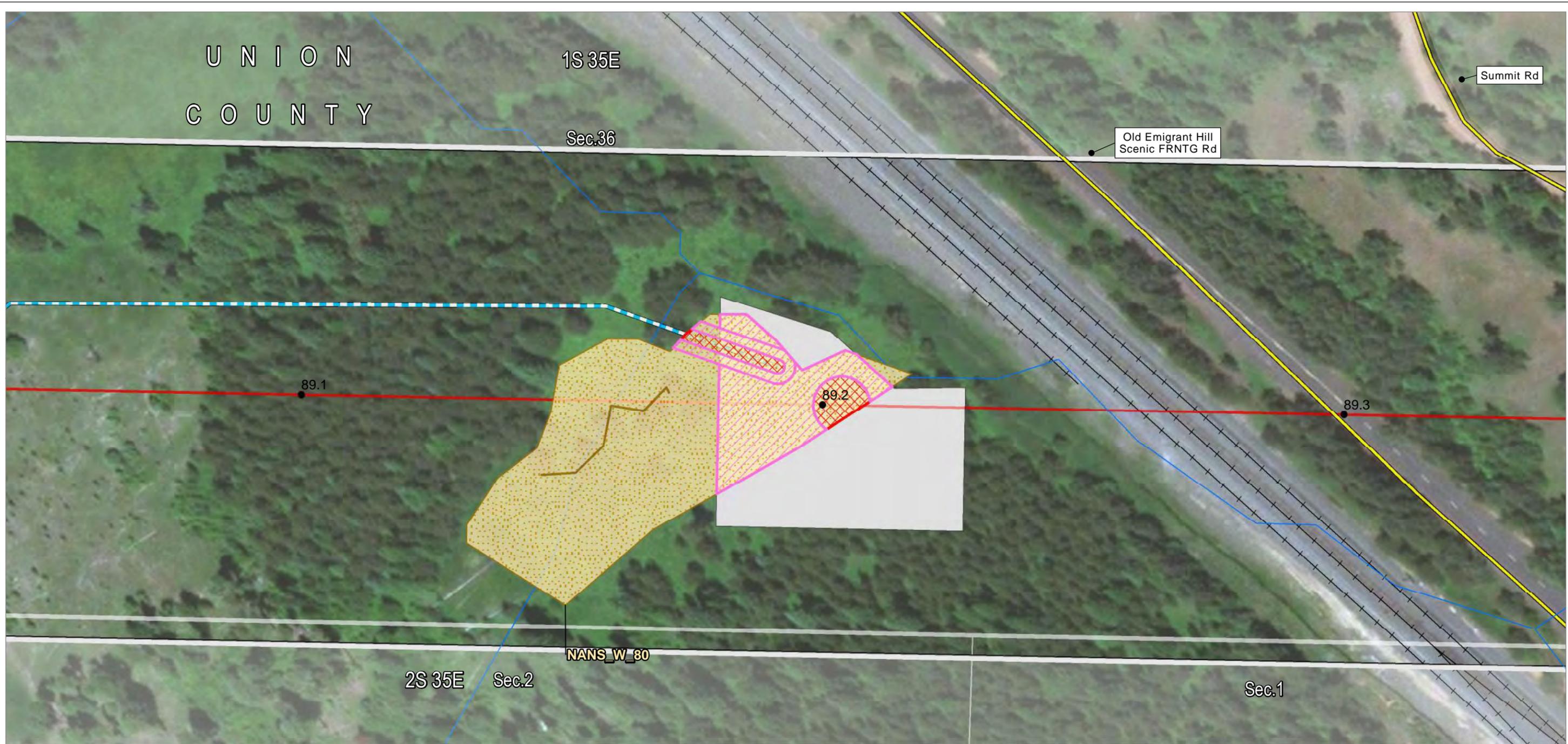
Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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**Appendix K**  
**Joint Permit Application**  
**Location Map**  
Union County

Map Index



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area
- Railroads

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- New Road, Bladed

- Rivers, Streams, and Canals
- Wetland
- NANS Wetland (NWI)

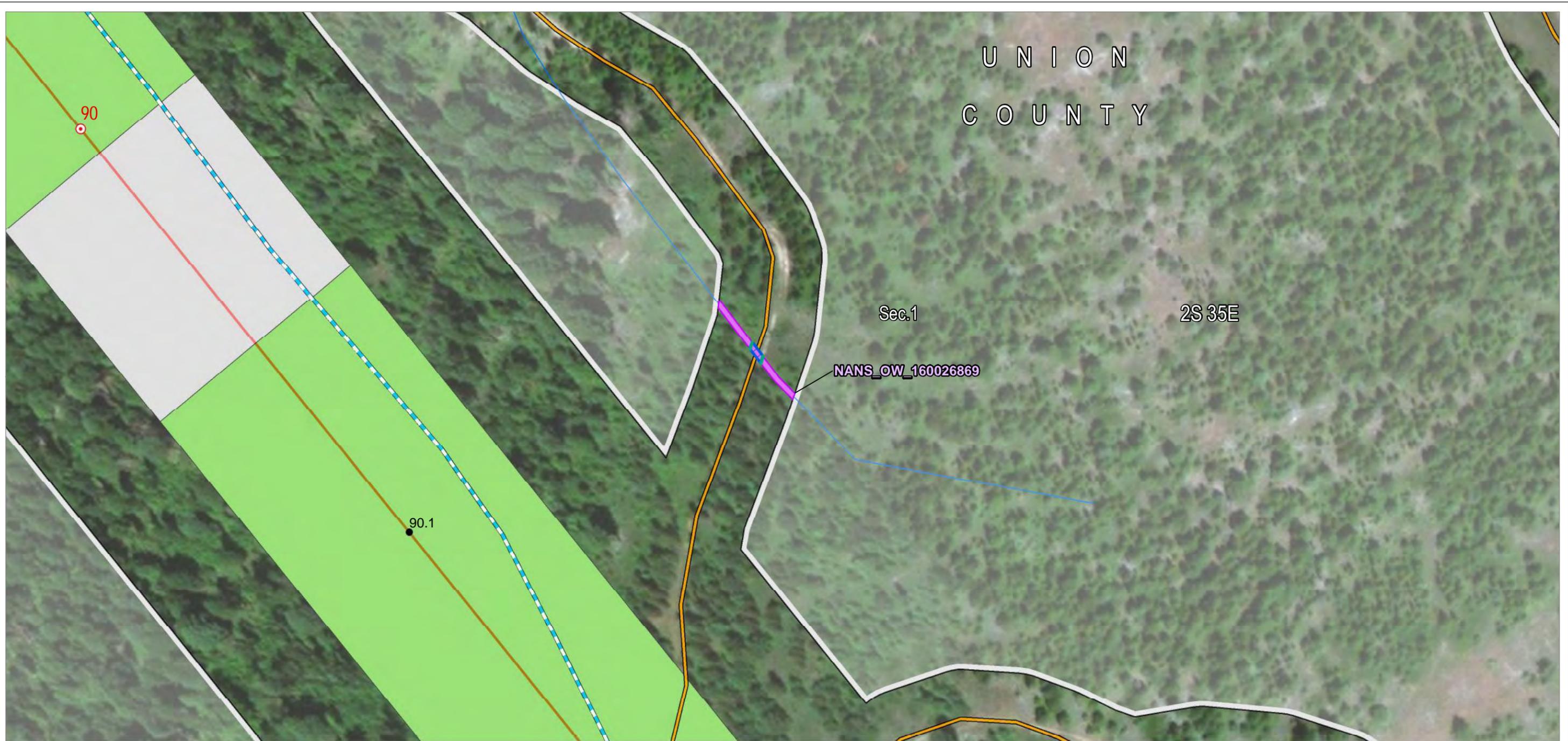
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-53**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



U N I O N  
C O U N T Y

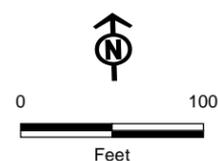
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2S 35E

NANS\_OW\_160026869

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**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Mile
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Bladed

- Rivers, Streams, and Canals
- Other Waters
- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

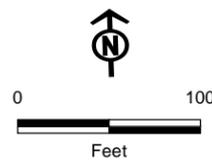
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-54**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

**Site Boundary**

Proposed Route

**Construction Access**

Existing Road, Substantial Modification, 21-70% Improvements

Existing Road, Substantial Modification, 71-100% Improvements

Rivers, Streams, and Canals

**Other Waters**

Field Survey Streams

**Stream Impact Type**

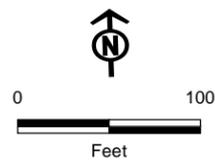
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Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-55**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

Site Boundary

Proposed Route

Construction Access

Existing Road, Substantial Modification, 71-100% Improvements

Rivers, Streams, and Canals

**Other Waters**

Field Survey Streams

Stream Impact Type

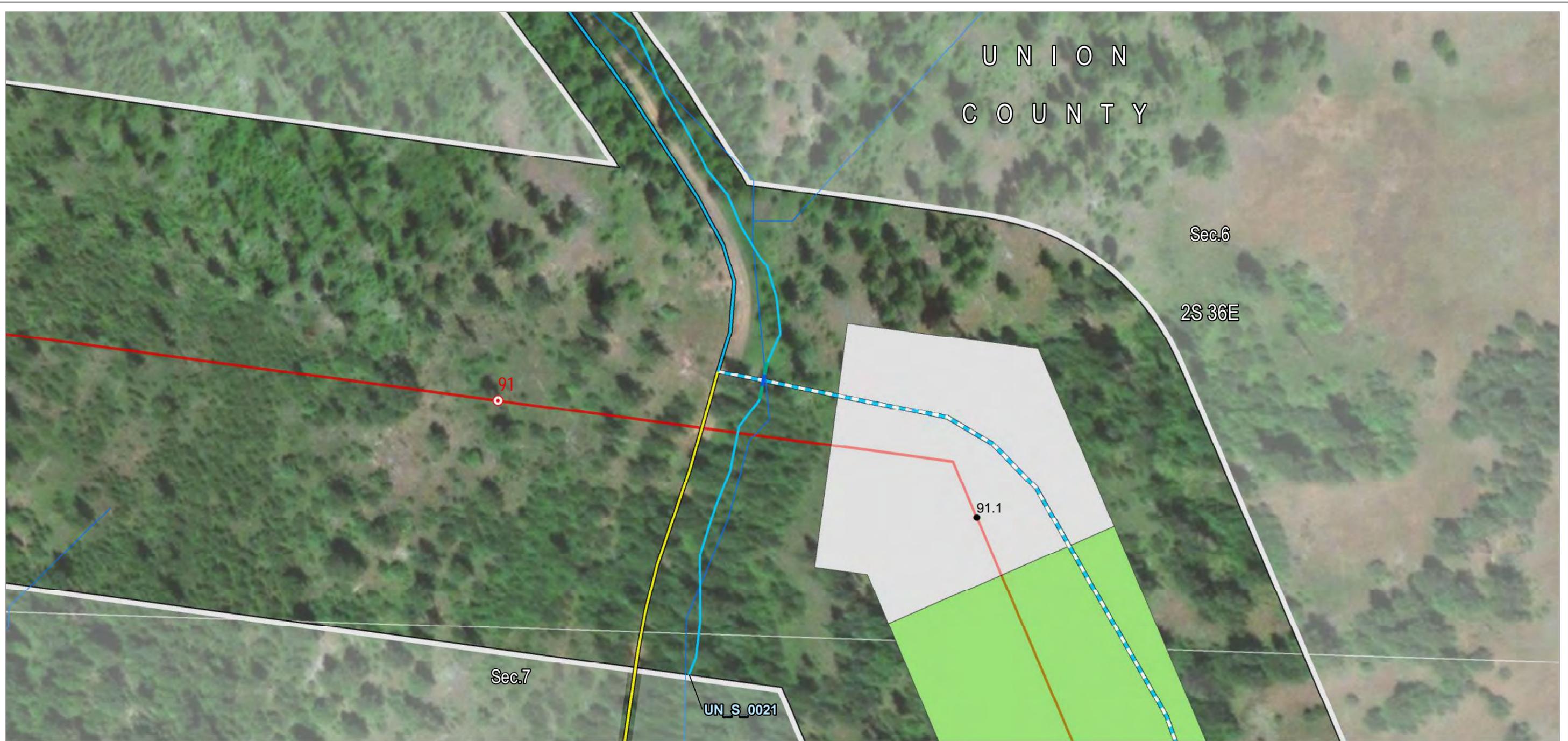
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Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-56**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



U N I O N  
C O U N T Y

Sec.6

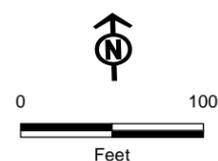
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**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

**Mileposts**

- Mile
- Tenth-mile
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements

- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Bladed
- Rivers, Streams, and Canals

**Other Waters**

- Field Survey Streams

**Stream Impact Type**

- Temporary
- Permanent

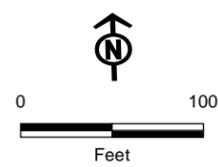
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-57**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- Existing Road, Substantial Modification, 71-100% Improvements

- Rivers, Streams, and Canals
- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

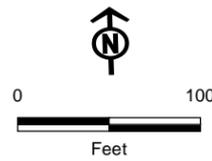
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**IDAHO POWER**  
An IDACORP Company

Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-58**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- Other Waters
- NANS Streams (NHD)
- Stream Impact Type
- Temporary

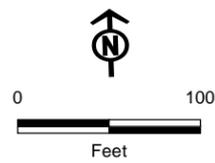
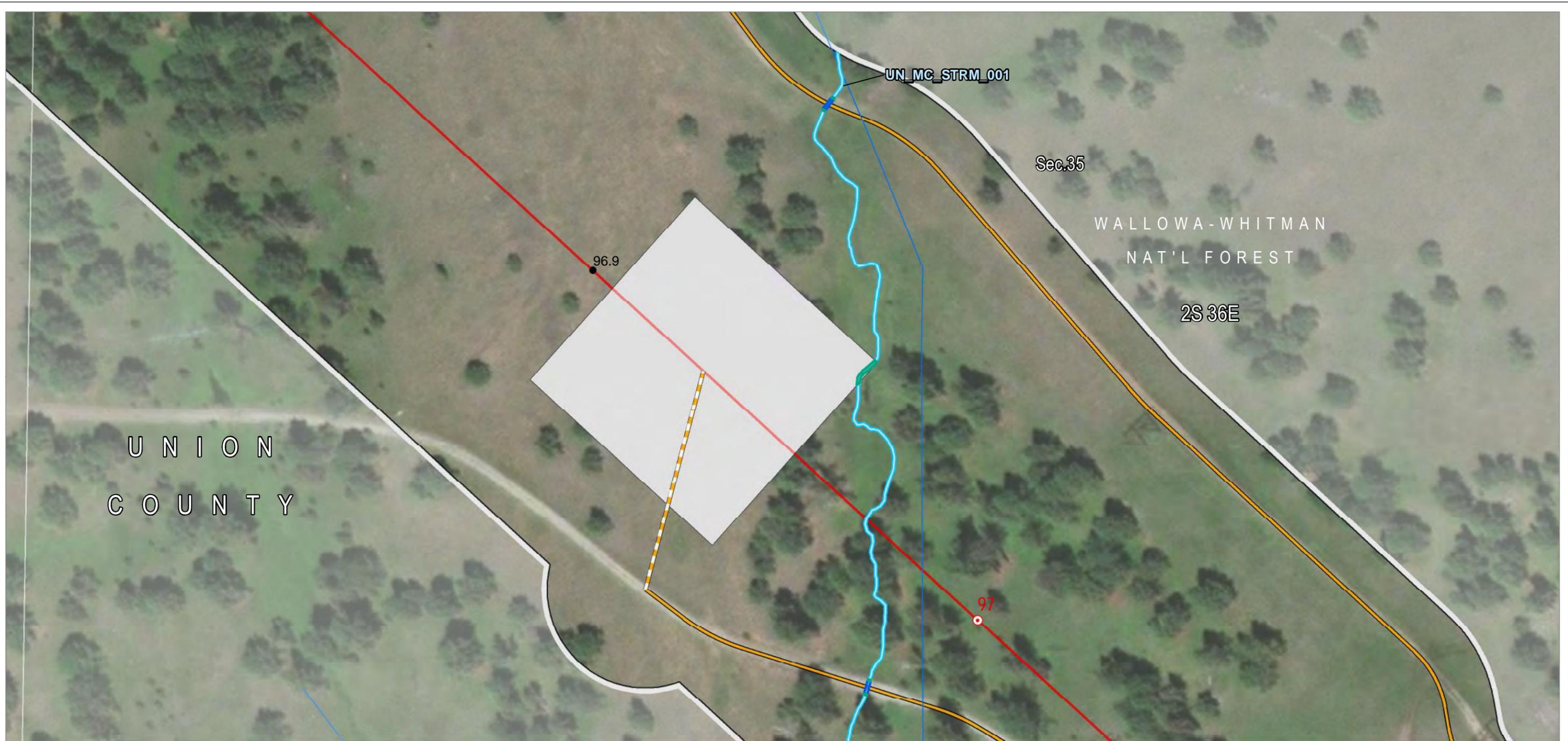
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-59**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

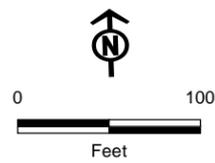
- Mileposts
- Mile
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- Other Waters
- Field Survey Streams
- Stream Impact Type
- Temporary
- Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-60**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Mileposts
- Tenth-mile

- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- Rivers, Streams, and Canals

- Other Waters
- Field Survey Streams

**Stream Impact Type**

- Temporary
- Permanent

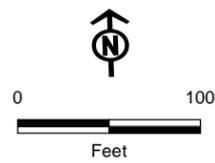
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-61**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Mile
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- Other Waters
- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

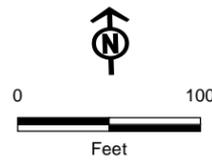
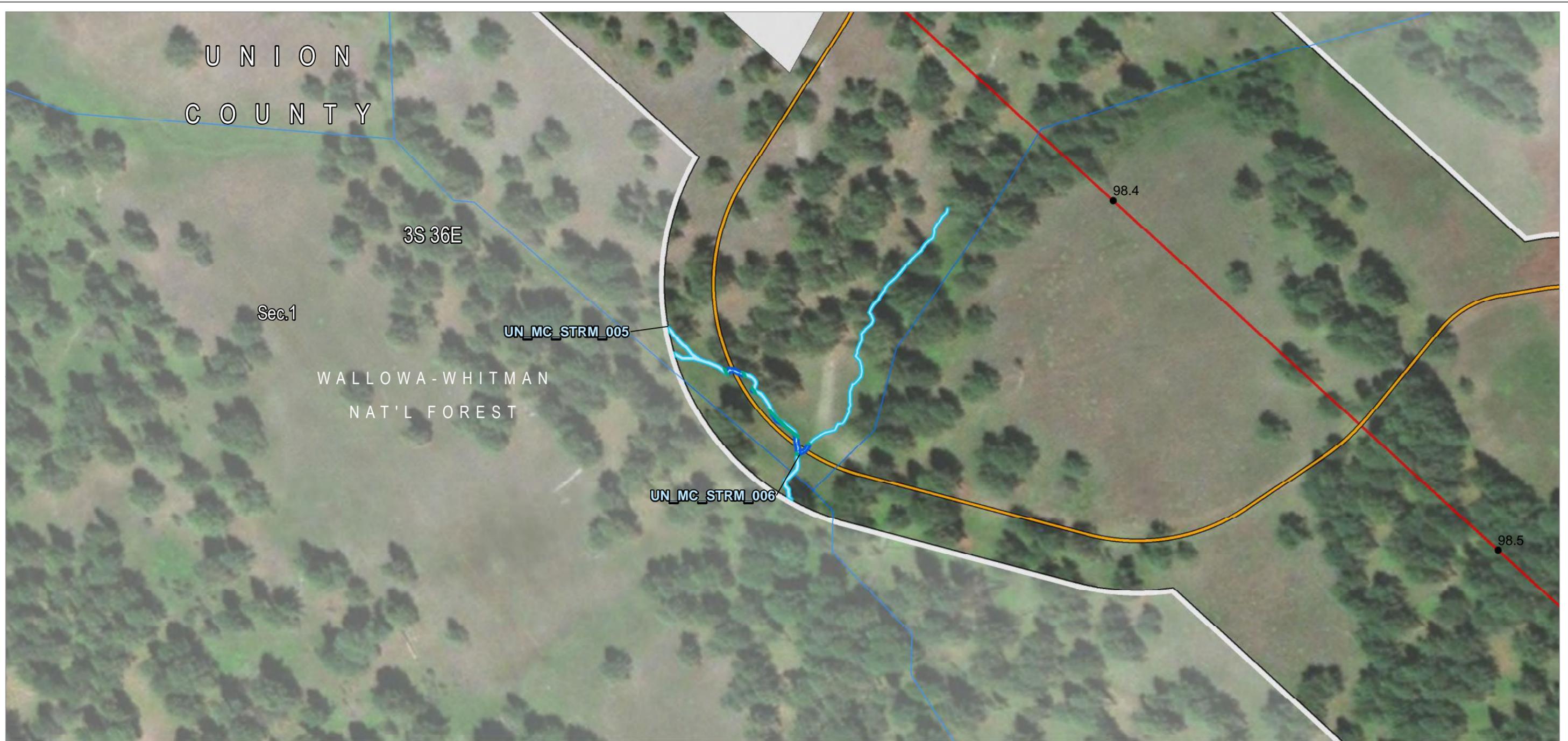
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-62**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

**Mileposts**

- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- Rivers, Streams, and Canals

**Other Waters**

- Field Survey Streams
- Stream Impact Type
- Temporary
- Permanent

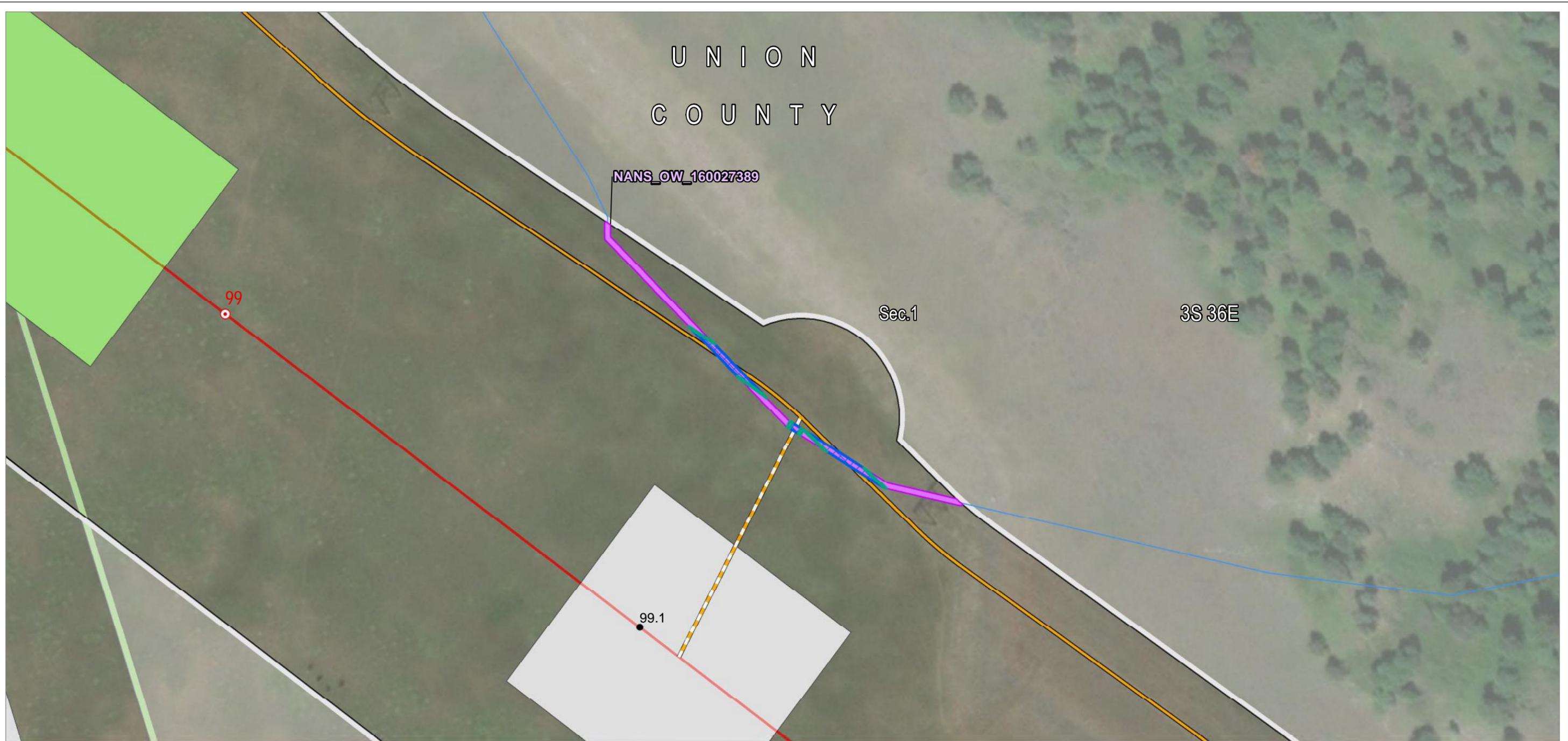
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-63**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



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COUNTY

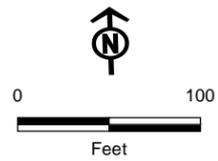
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**Project Features**

**Site Boundary**

- Proposed Route
- Alternative Route

**Route Centerline**

- Proposed Route

**Work Areas**

- Pulling and Tensioning

- Structure Work Area

**Mileposts**

- Mile
- Tenth-mile

**Construction Access**

- Existing Road, Substantial Modification, 21-70% Improvements

- New Road, Primitive

- Rivers, Streams, and Canals

**Other Waters**

- NANS Streams (NHD)

**Stream Impact Type**

- Temporary

- Permanent



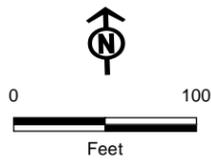
Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

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Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Attachment K-64**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County

# UNION COUNTY



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

### Project Features

- Site Boundary
- Proposed Route
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- Existing Road, Substantial Modification, 21-70% Improvements

- New Road, Primitive
- Other Major Roads
- Rivers, Streams, and Canals

- Other Waters
- NANS Streams (NHD)

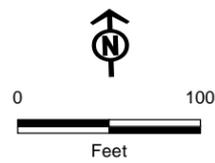
### Stream Impact Type

- Temporary
- Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

## Attachment K-65 Wetland and Other Waters Joint Permit Application Detail Maps Union County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

**Mileposts**

- Tenth-mile
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- Existing Road, Substantial Modification, 21-70% Improvements

- New Road, Primitive
- Rivers, Streams, and Canals

**Other Waters**

- NANS Streams (NHD)
- Stream Impact Type
- Temporary

- Permanent

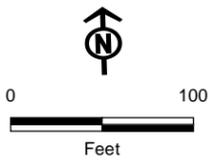
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-66**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

- Site Boundary
- Alternative Route
- Route Centerline
- Alternative
- Work Areas
- Pulling and Tensioning
- Structure Work Area

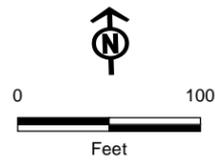
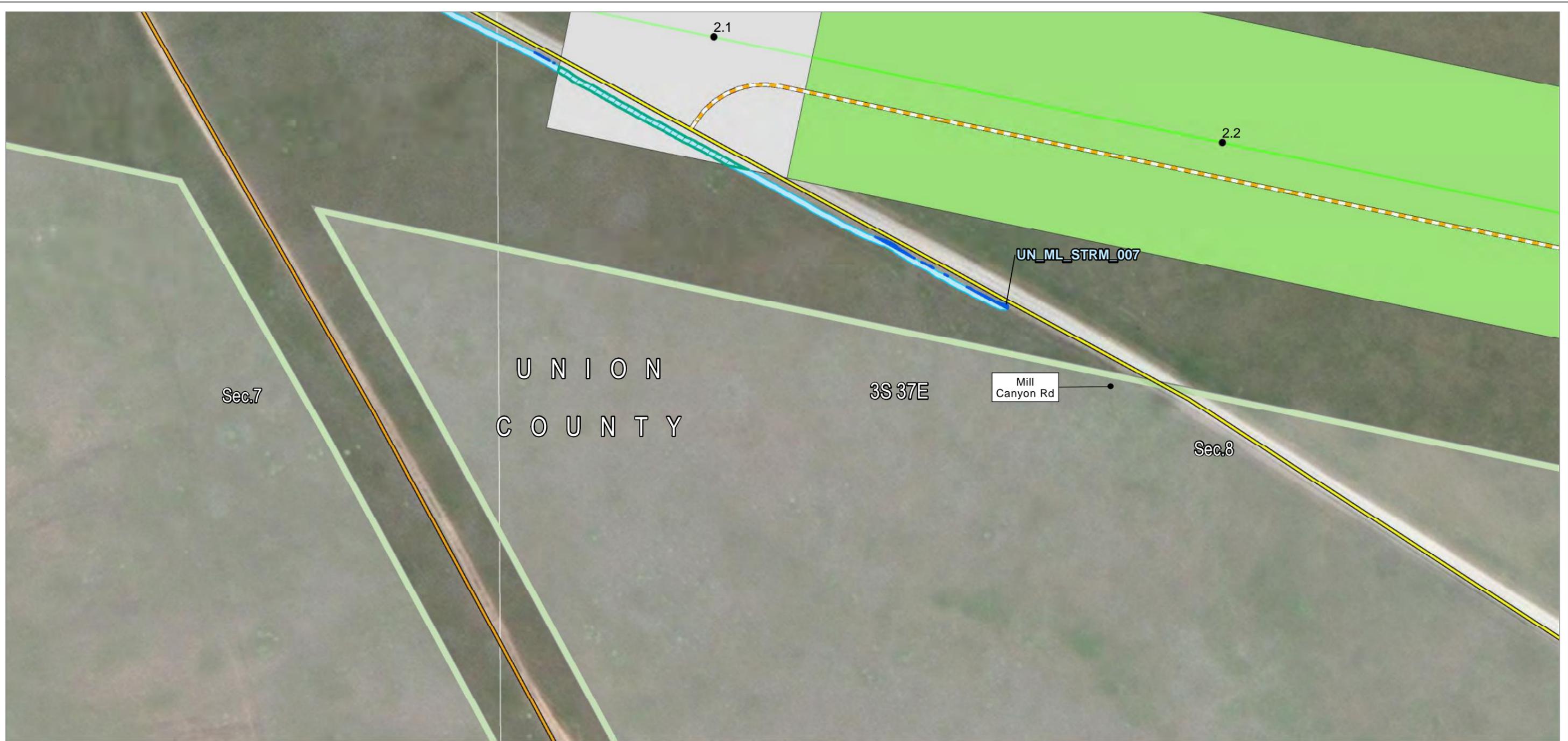
- Mileposts
- Mile
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- Existing Road, Substantial Modification, 21-70% Improvements

- New Road, Primitive
- Rivers, Streams, and Canals
- Other Waters
- Field Survey Streams
- Stream Impact Type
- Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-67**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



**Project Features**

- Site Boundary
- Alternative Route
- Route Centerline
- Alternative
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- Existing Road, Substantial Modification, 21-70% Improvements

- New Road, Primitive
- Rivers, Streams, and Canals

- Other Waters
- Field Survey Streams
- Stream Impact Type
- Temporary

- Permanent

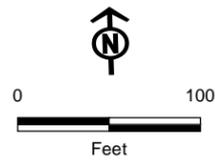
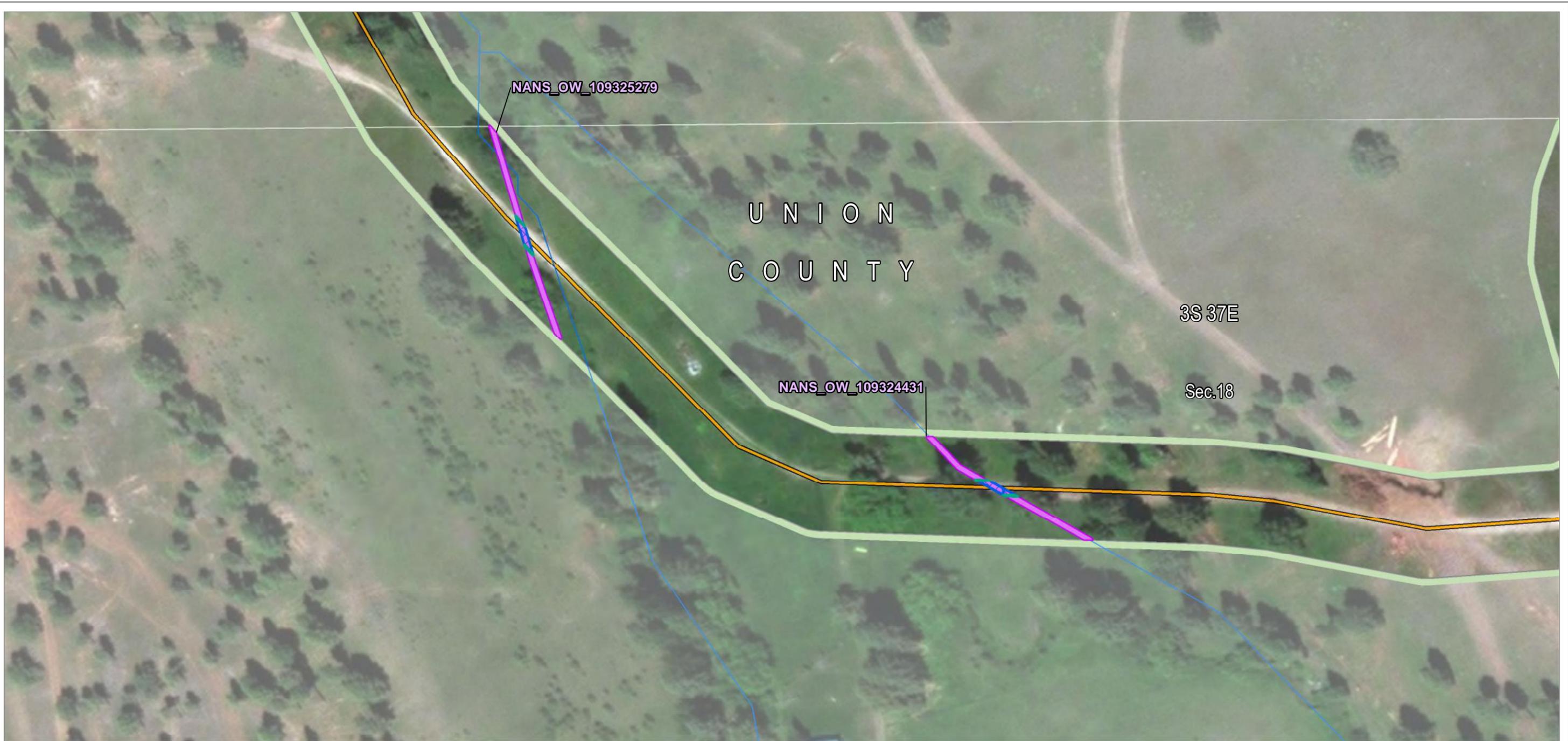
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-68**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



**Project Features**

**Site Boundary**

Alternative Route

**Construction Access**

Existing Road, Substantial Modification, 21-70% Improvements

Rivers, Streams, and Canals

**Other Waters**

NANS Streams (NHD)

**Stream Impact Type**

Temporary

Permanent

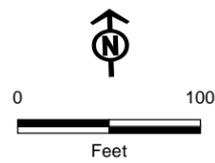
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-69**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

**Site Boundary**

Alternative Route

**Construction Access**

Existing Road, Substantial Modification, 21-70% Improvements

Rivers, Streams, and Canals

**Other Waters**

Field Survey Streams

**Stream Impact Type**

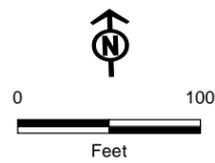
Temporary

Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-70**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



**Project Features**

- Site Boundary
- Proposed Route
- Alternative Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

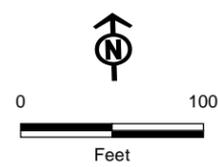
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-71**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

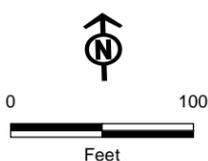
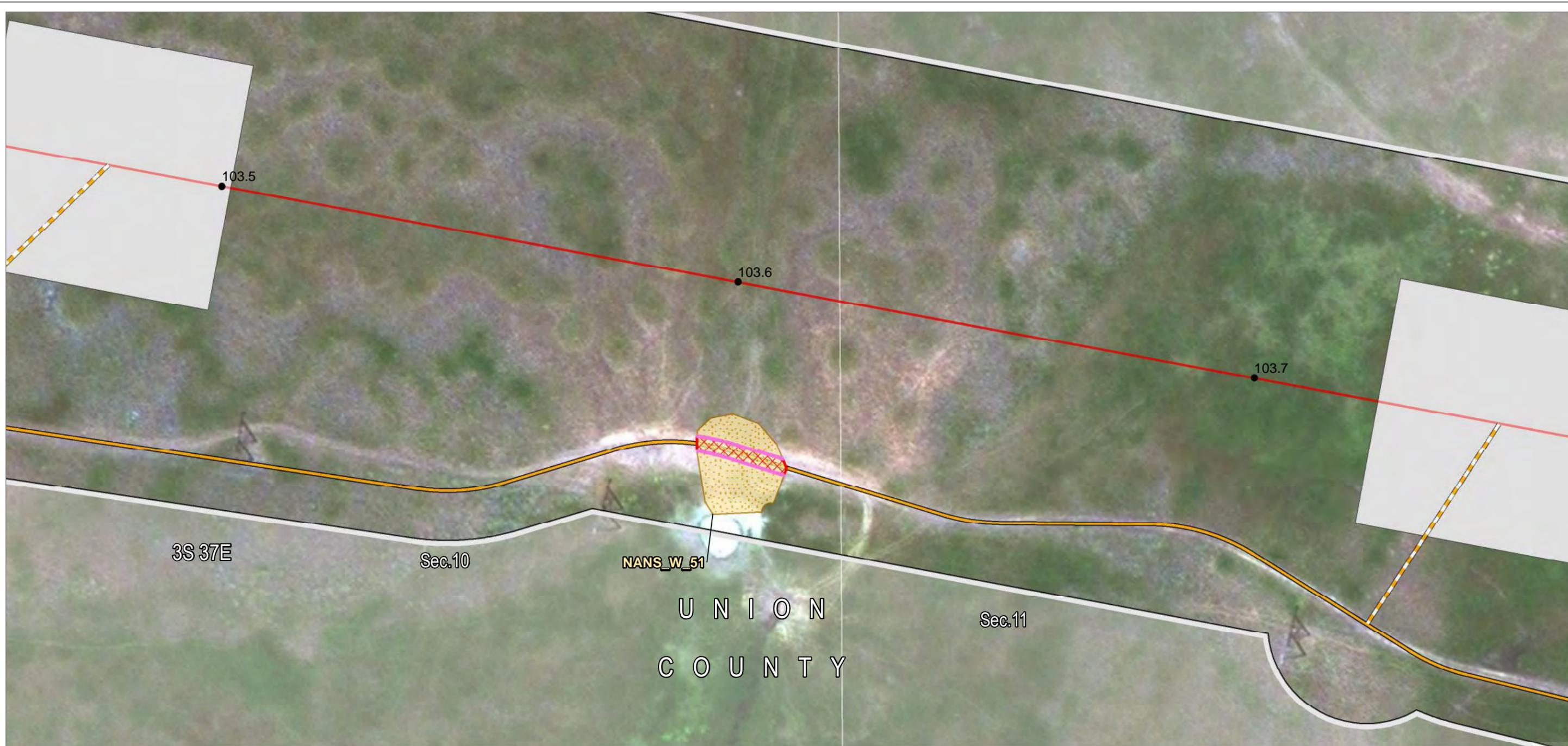
Notes: Elevation Contour lines are not available at this time and will be added at a later date.

- Project Features**
- Site Boundary
  - Proposed Route
  - Work Areas
  - Structure Work Area
  - Construction Access
  - Existing Road, Substantial Modification, 21-70% Improvements
- Other Waters**
- Rivers, Streams, and Canals
  - NANS Streams (NHD)
  - Stream Impact Type
  - Temporary
  - Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-72**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

**Mileposts**

- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Primitive

**Rivers, Streams, and Canals**

**Wetland**

- NANS Wetland (NWI)

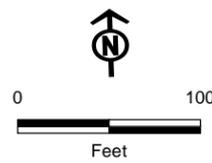
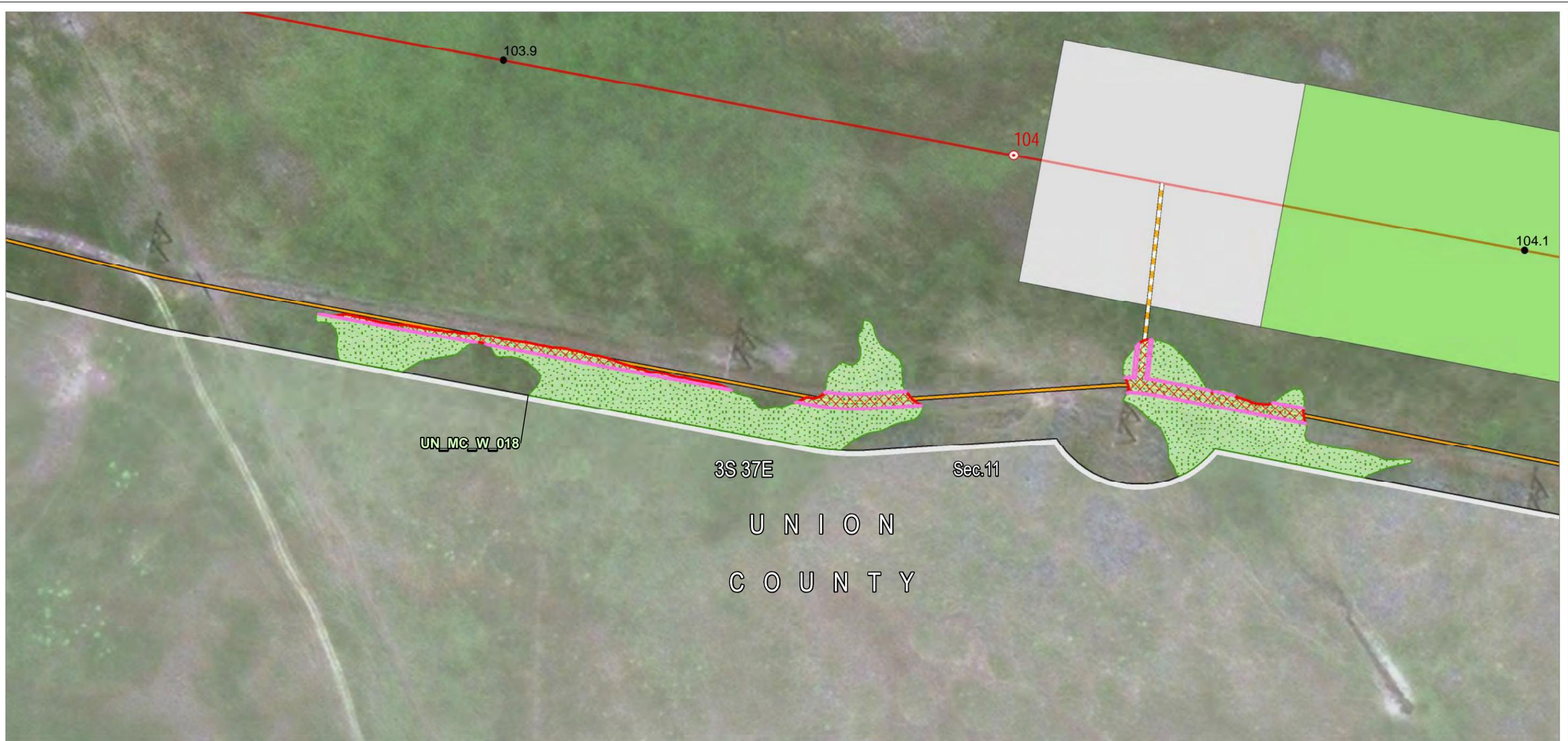


Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-73  
Wetland and Other Waters  
Joint Permit Application  
Detail Maps  
Union County**

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Mile
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- Wetland
- Field Survey Wetland

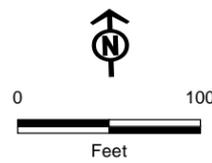
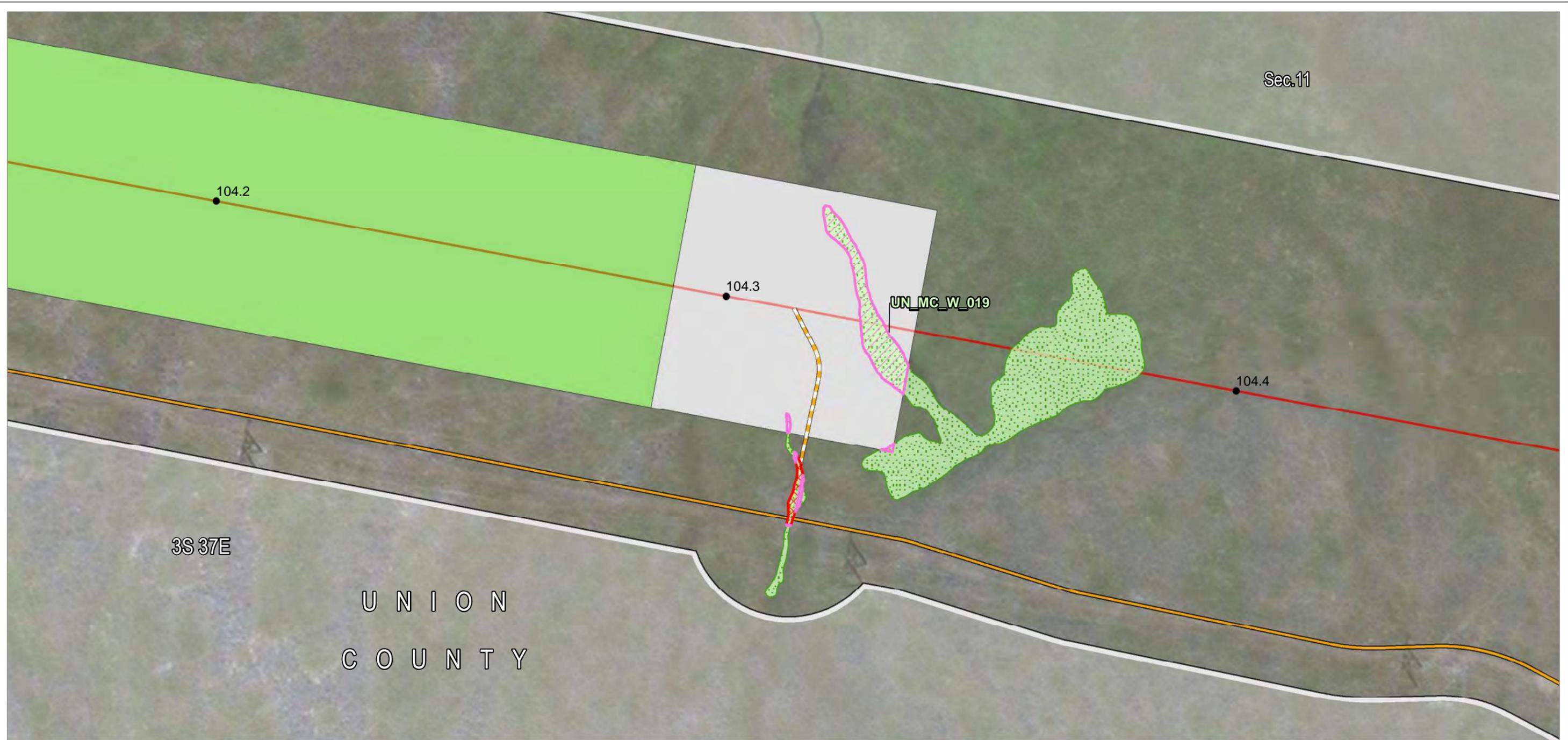
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-74**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- Wetland
- Field Survey Wetland

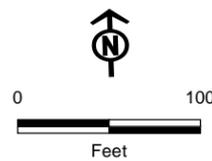
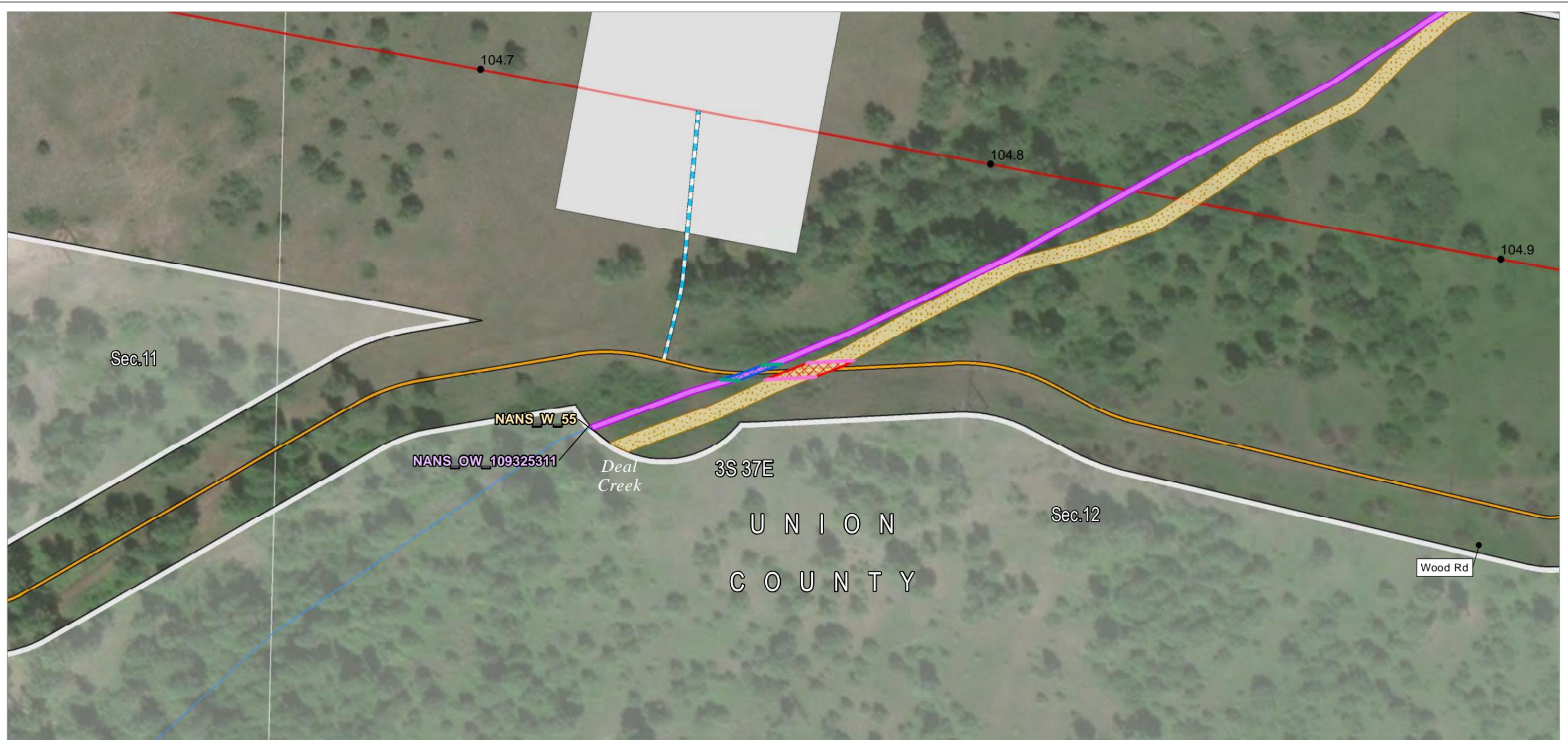
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-75**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

**Mileposts**

- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Bladed

**Rivers, Streams, and Canals**

- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

**Wetland**

- NANS Wetland (NWI)

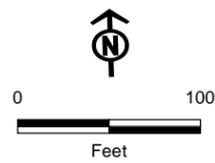
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-76**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning

- Mileposts**
- Tenth-mile
- Construction Access**
- Existing Road, No Substantial Modification, 0-20% Improvements
  - Existing Road, Substantial Modification, 21-70% Improvements

- Rivers, Streams, and Canals**
- Field Survey Streams
- Other Waters**
- Stream Impact Type
  - Temporary
  - Permanent

- Wetland**
- NANS Wetland (NWI)

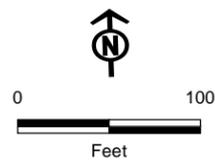
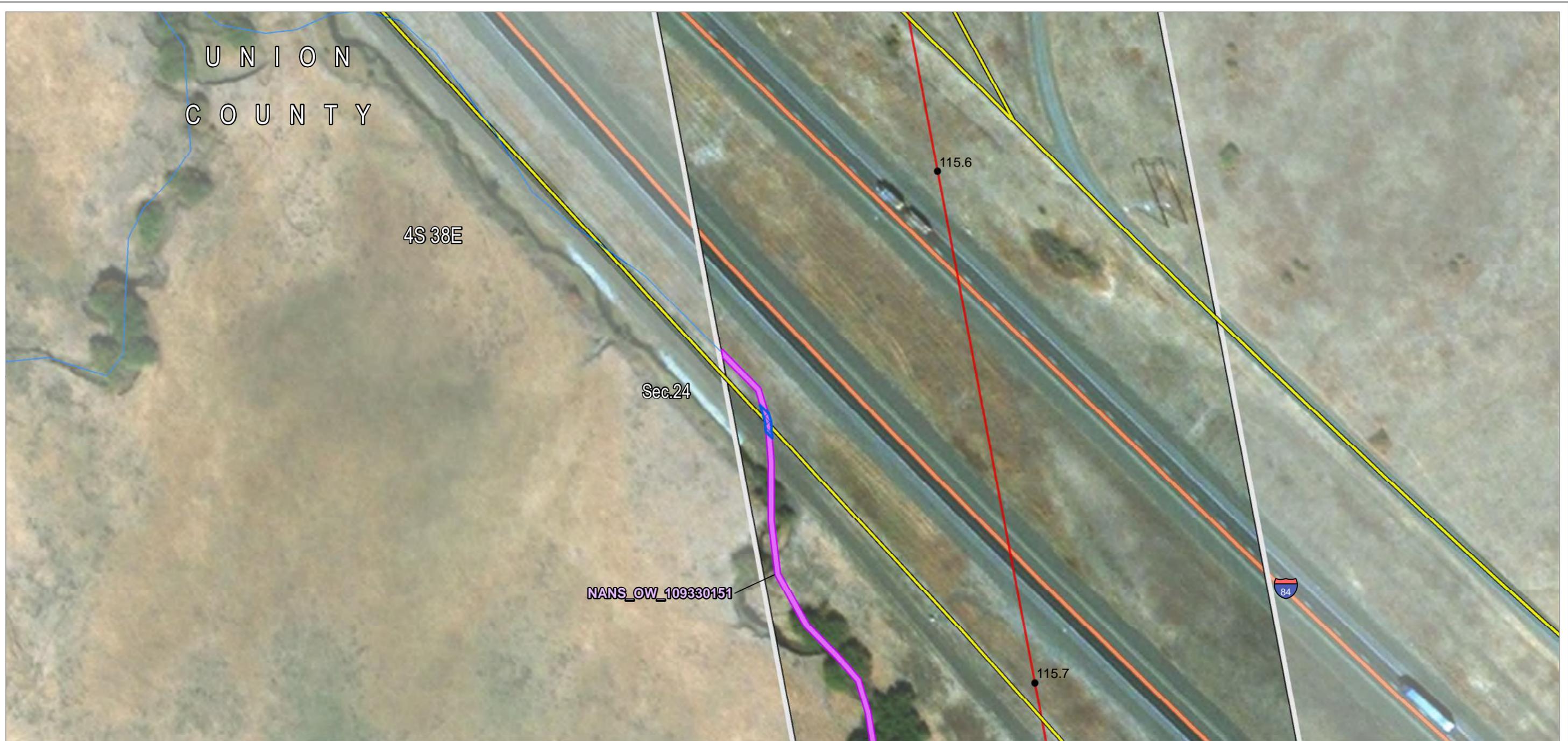
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-77**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Mileposts
- Tenth-mile

- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements

- Transportation
- Interstates or Highways
- Rivers, Streams, and Canals

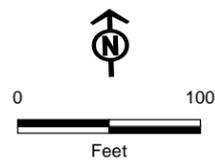
**Other Waters**

- NANS Streams (NHD)
- Stream Impact Type
- Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-78**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements

- Transportation
- Interstates or Highways

- Rivers, Streams, and Canals

- Other Waters
- NANS Streams (NHD)

- Wetland
- NANS Wetland (NWI)



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-79**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



U N I O N  
C O U N T Y



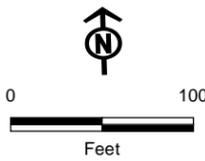
4S 38E

UN\_MC\_STRM\_300  
Ladd  
Canyon

NANS\_OW\_109331429

NANS\_OW\_109330399

Sec. 25



**Project Features**

- Site Boundary
- Proposed Route
- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- Existing Road, Substantial Modification, 21-70% Improvements

- Transportation**
- Interstates or Highways
- Rivers, Streams, and Canals

- Other Waters**
- Field Survey Streams
- NANS Streams (NHD)

- Stream Impact Type**
- Temporary
- Permanent

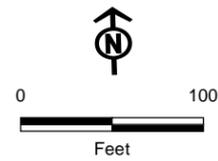


Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-80**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



**Project Features**

- Site Boundary
- Alternative Route
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Bladed

Rivers, Streams, and Canals

**Wetland**

- Field Survey Wetland

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-81  
Wetland and Other Waters  
Joint Permit Application  
Detail Maps  
Union County**

# U N I O N C O U N T Y

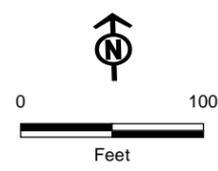


Sec. 23

UN\_ML\_W\_004

3S 37E

Mill Canyon Rd



- Project Features**
- Site Boundary
  - Alternative Route
  - Construction Access
  - Existing Road, No Substantial Modification, 0-20% Improvements
  - New Road, Primitive
- Wetland**
- Rivers, Streams, and Canals
  - Field Survey Wetland

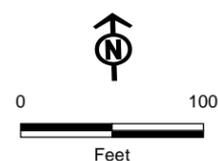
**IDAHO POWER**  
An IDACORP Company

Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-82**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



**Project Features**

- Site Boundary
- Alternative Route
- Route Centerline
- Alternative
- Work Areas
- Pulling and Tensioning

- Construction Access
- Existing Road, No Substantial Modification, 0-20% Improvements
- Rivers, Streams, and Canals

- Other Waters
- NANS Streams (NHD)

**Stream Impact Type**

- Permanent
- NANS Wetland (NWI)

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**IDAHO POWER**  
An IDACORP Company

Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-83**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County

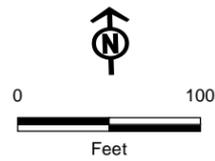
# UNION COUNTY

NANS\_OW\_109327743

Sheep  
Creek

Sec.5

4S 38E



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

### Project Features

Site Boundary

Alternative Route

Construction Access

Existing Road, Substantial  
Modification, 21-70%  
Improvements

Existing Road, Substantial  
Modification, 71-100%  
Improvements

Rivers, Streams, and  
Canals

### Other Waters

NANS Streams (NHD)

Stream Impact Type

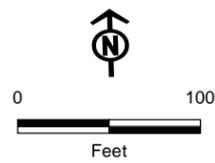
Temporary

Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-84**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

- Site Boundary
- Alternative Route
- Route Centerline
- Alternative
- Work Areas
- Structure Work Area

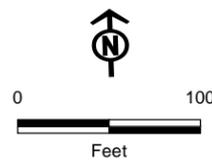
- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- Existing Road, Substantial Modification, 71-100% Improvements

- Rivers, Streams, and Canals
- Other Waters
- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-85  
Wetland and Other Waters  
Joint Permit Application  
Detail Maps  
Union County**



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

**Site Boundary**

Alternative Route

**Construction Access**

Existing Road, Substantial Modification, 21-70% Improvements

Rivers, Streams, and Canals

**Other Waters**

NANS Streams (NHD)

**Stream Impact Type**

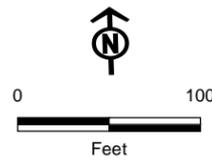
Temporary

Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-86**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

**Site Boundary**

Alternative Route

**Construction Access**

Existing Road, Substantial Modification, 21-70% Improvements

Rivers, Streams, and Canals

**Other Waters**

NANS Streams (NHD)

**Stream Impact Type**

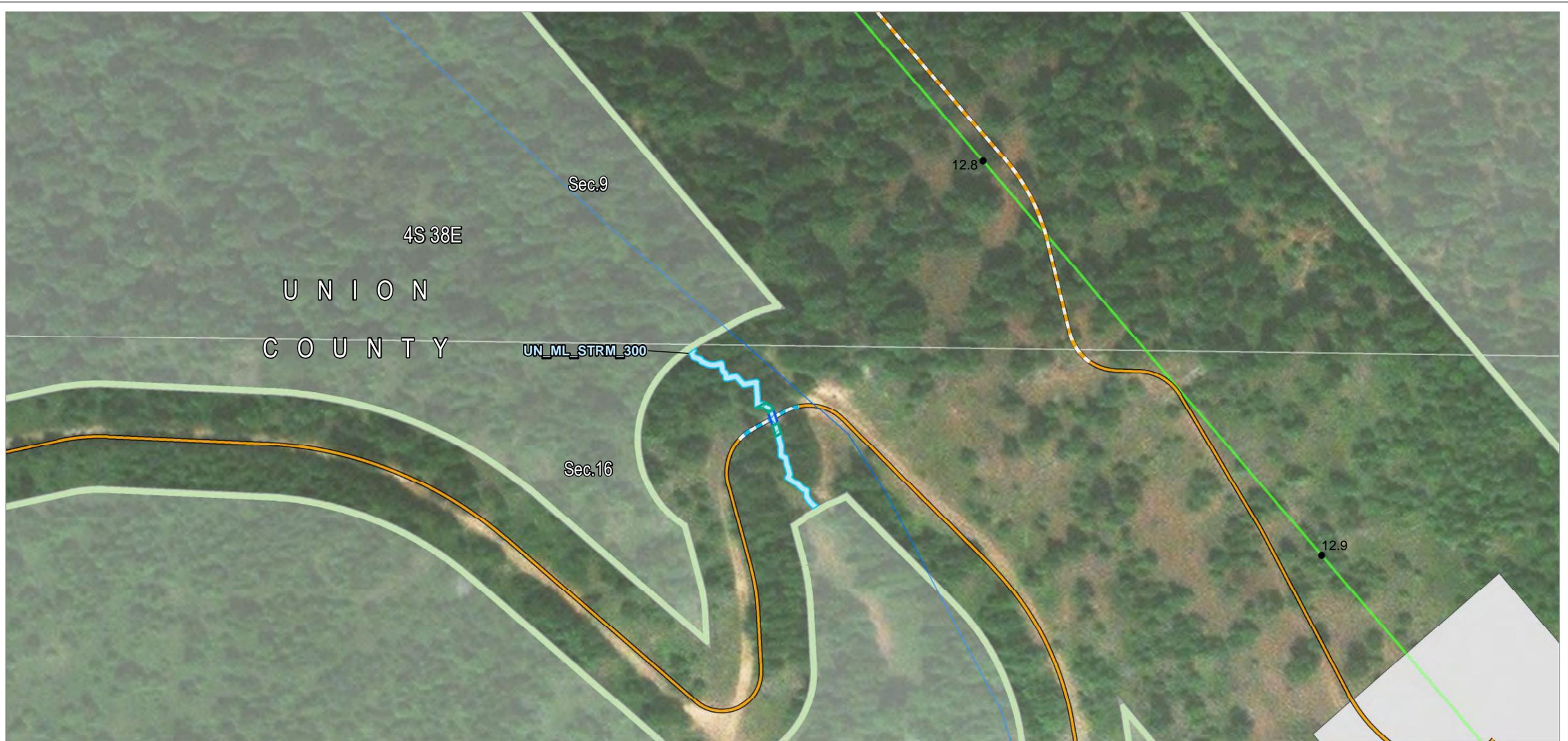
Temporary

Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-87**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



UNION  
COUNTY

4S 38E

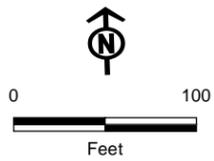
Sec.9

UN\_ML\_STRM\_300

Sec.16

12.8

12.9



Map Area

**Project Features**

- Site Boundary
- Alternative Route
- Route Centerline
- Alternative
- Work Areas
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Bladed
- New Road, Primitive

- Rivers, Streams, and Canals
- Other Waters
- Field Survey Streams
- Stream Impact Type
- Temporary
- Permanent

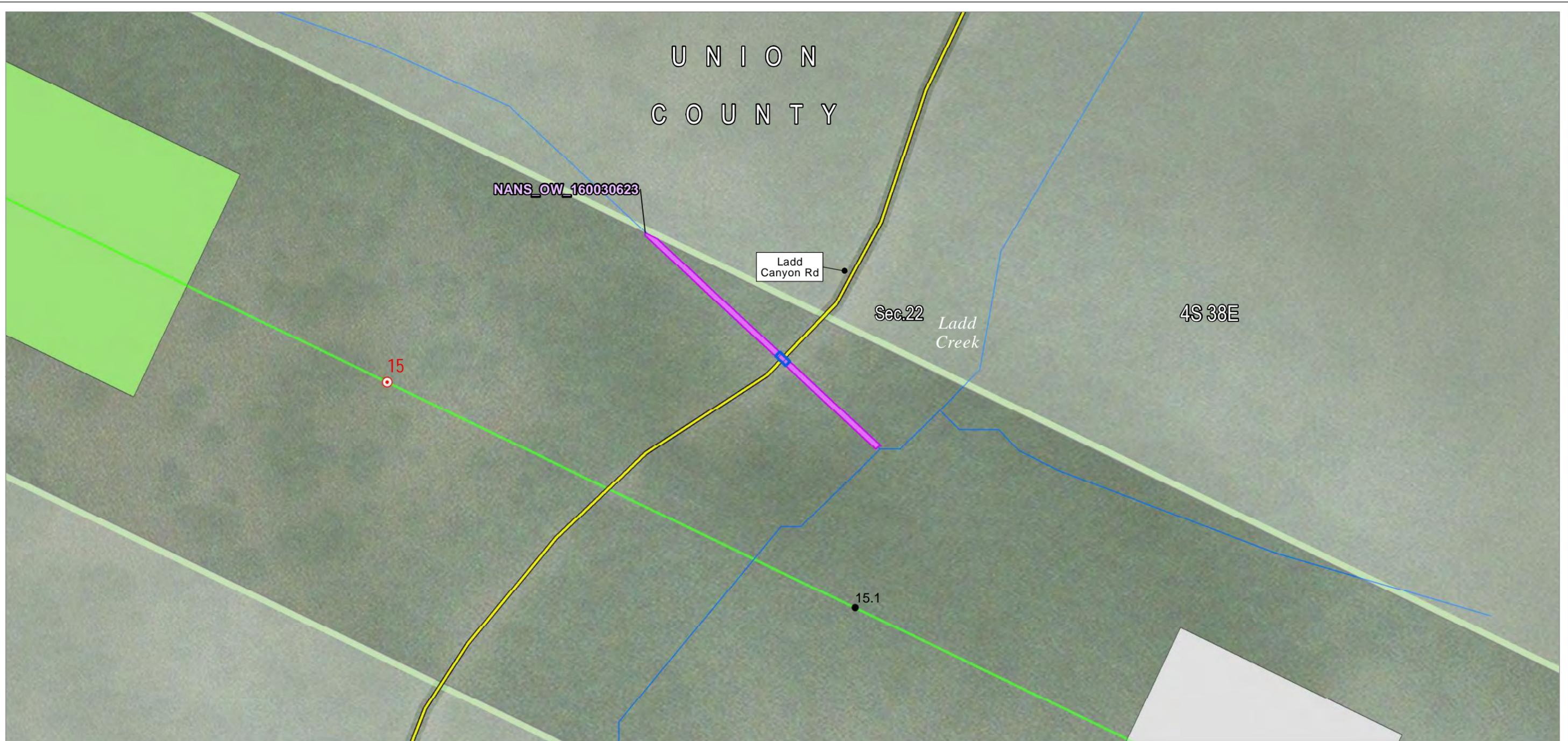
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-88**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



U N I O N  
C O U N T Y

NANS\_OW\_160030623

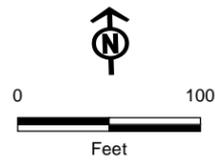
Ladd  
Canyon Rd

Sec.22  
Ladd  
Creek

4S 38E

15

15.1



**Project Features**

- Site Boundary
- Alternative Route
- Route Centerline
- Alternative
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Mile
- Tenth-mile
- Construction Access
- Existing Road, No
- Substantial Modification, 0-20% Improvements

- Rivers, Streams, and Canals
- Other Waters
- NANS Streams (NHD)
- Stream Impact Type
- Permanent

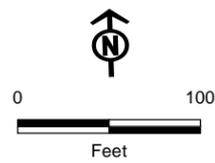


Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-89**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

**Construction Access**

- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Primitive
- Rivers, Streams, and Canals

**Other Waters**

- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-90**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



U N I O N  
C O U N T Y

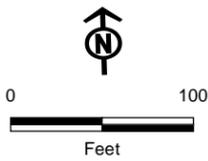
Sec.8

5S 39E

UN\_LM\_STRM\_301

120.5

120.6



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- New Road, Bladed
- Rivers, Streams, and Canals

- Other Waters**
- Field Survey Streams
- Stream Impact Type
- Temporary
- Permanent

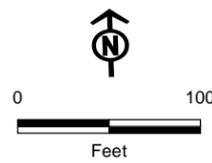
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-91**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

Site Boundary

Proposed Route

Construction Access

Existing Road, Substantial Modification, 71-100% Improvements

Rivers, Streams, and Canals

**Other Waters**

Field Survey Streams

Stream Impact Type

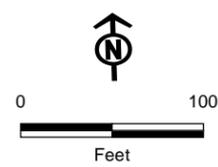
Temporary

Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-92**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



**Project Features**

**Site Boundary**

Proposed Route

**Construction Access**

Existing Road, No Substantial Modification, 0-20% Improvements

Existing Road, Substantial Modification, 71-100% Improvements

**Transportation**

Interstates or Highways  
Rivers, Streams, and Canals

**Other Waters**

Field Survey Streams

**Stream Impact Type**

Temporary

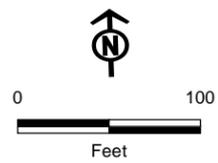
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-93  
Wetland and Other Waters  
Joint Permit Application  
Detail Maps  
Union County**



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Mileposts
- Mile

- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Primitive
- Rivers, Streams, and Canals

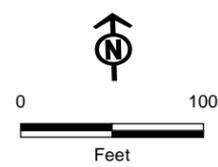
**Other Waters**

- Field Survey Streams
- Stream Impact Type
- Temporary
- Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-94**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



- Project Features**
- Site Boundary
  - Proposed Route
  - Construction Access
  - Existing Road, Substantial Modification, 21-70% Improvements
  - Rivers, Streams, and Canals

- Wetland**
- NANS Wetland (NWI)

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**IDAHO POWER**  
An IDACORP Company

Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-95**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County

U N I O N  
C O U N T Y



5S 39E

Sec.36

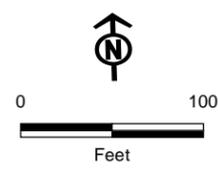
5S 40E

Sec.31

126.4

126.5

NANS\_OW\_112936455



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- New Road, Primitive
- Rivers, Streams, and Canals

**Other Waters**

- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

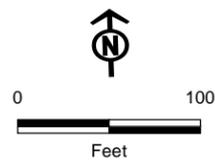
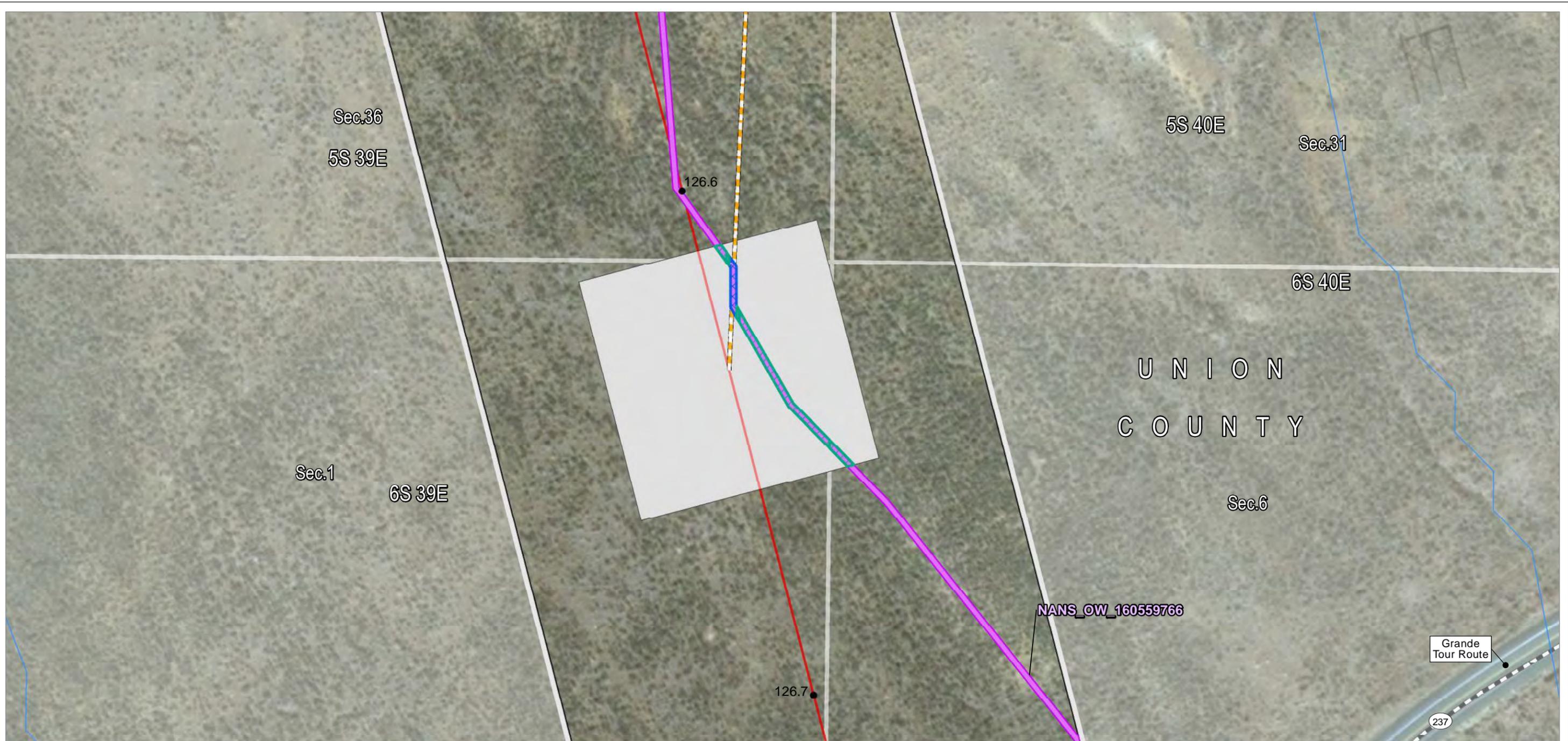


Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-96  
Wetland and Other Waters  
Joint Permit Application  
Detail Maps  
Union County**

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



**Project Features**

**Site Boundary**

Proposed Route

Route Centerline

Proposed Route

**Work Areas**

Structure Work Area

**Mileposts**

Tenth-mile

**Construction Access**

New Road, Primitive

**Transportation**

Other Major Roads

**Other Waters**

Rivers, Streams, and Canals

NANS Streams (NHD)

**Stream Impact Type**

Temporary

Permanent

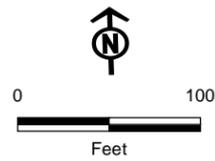
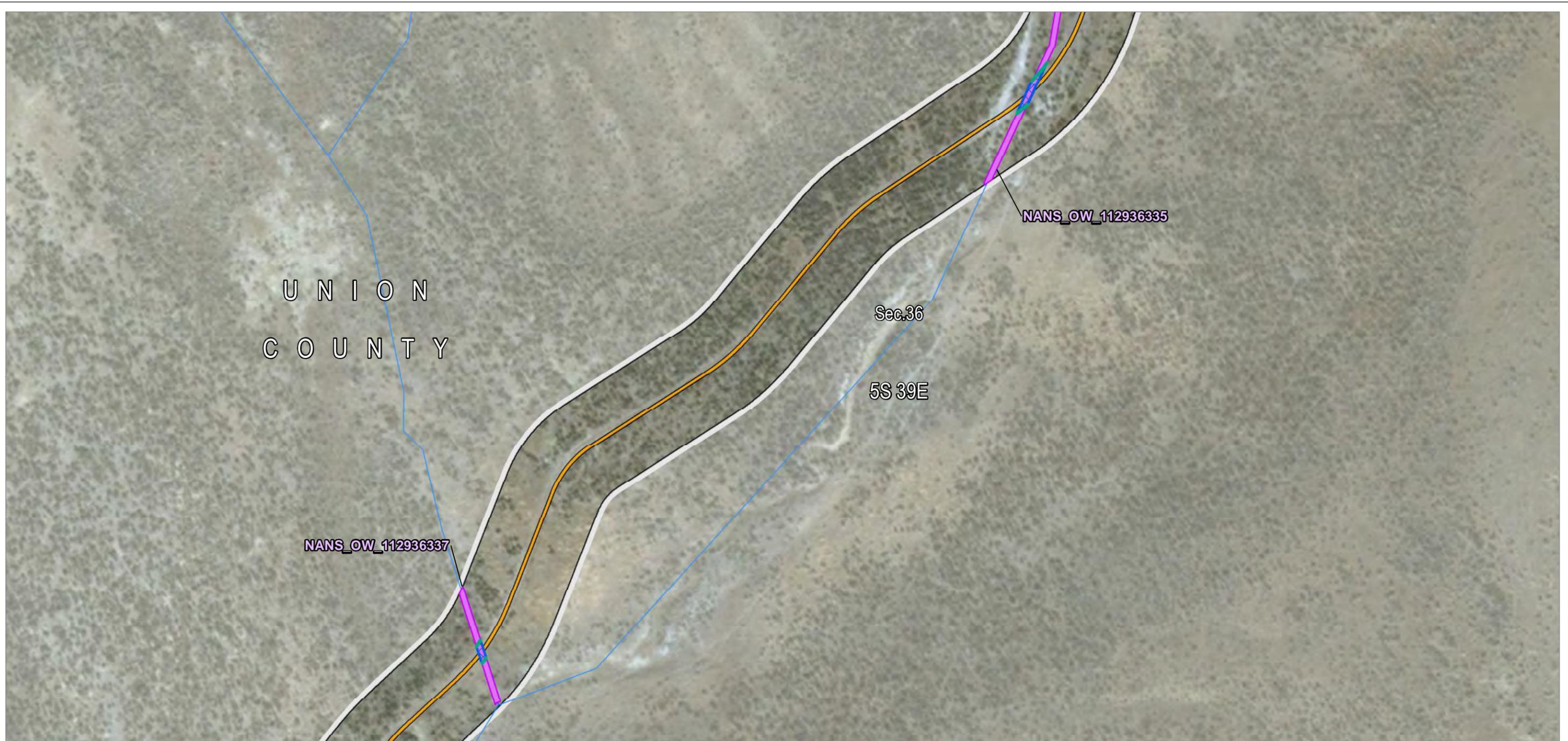
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-97**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

- Site Boundary
- Proposed Route
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- Rivers, Streams, and Canals

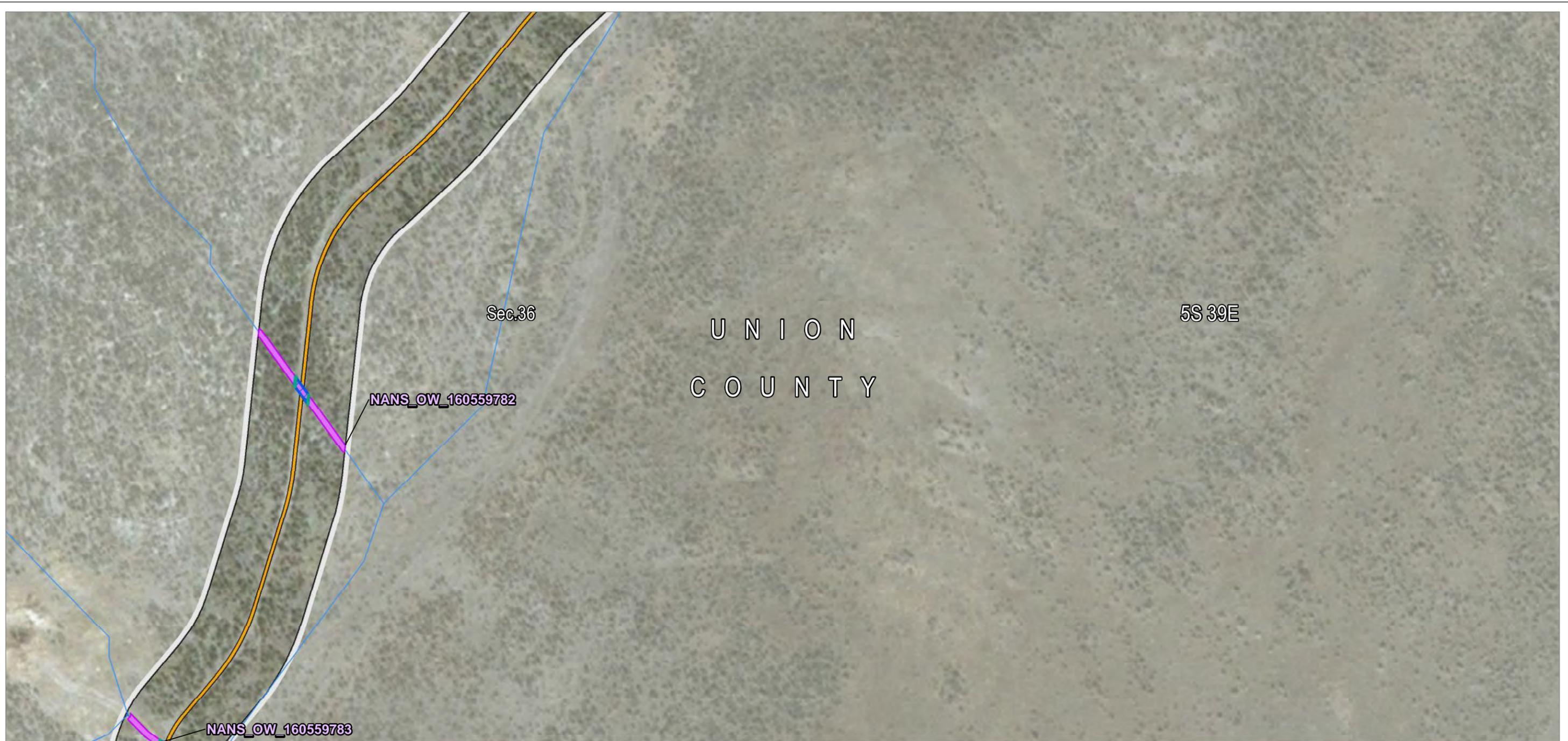
**Other Waters**

- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-98**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



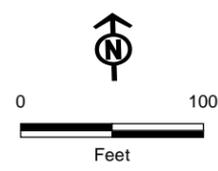
U N I O N  
C O U N T Y

Sec.36

5S 39E

NANS\_OW\_160559782

NANS\_OW\_160559783



Map Area

**Project Features**

- Site Boundary
- Proposed Route
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- Rivers, Streams, and Canals

**Other Waters**

- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

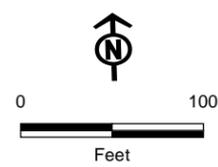


Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-99**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

- Site Boundary
- Proposed Route
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- Rivers, Streams, and Canals

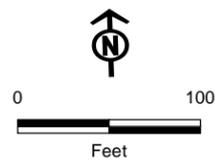
**Other Waters**

- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-100**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

**Project Features**

Site Boundary

Proposed Route

Construction Access

Existing Road, Substantial Modification, 21-70% Improvements

Rivers, Streams, and Canals

**Other Waters**

NANS Streams (NHD)

Stream Impact Type

Temporary

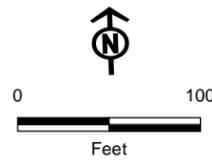
Permanent



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-101**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County

# U N I O N C O U N T Y



### Project Features

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- Other Waters
- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

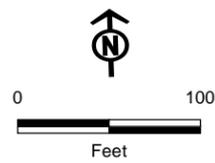
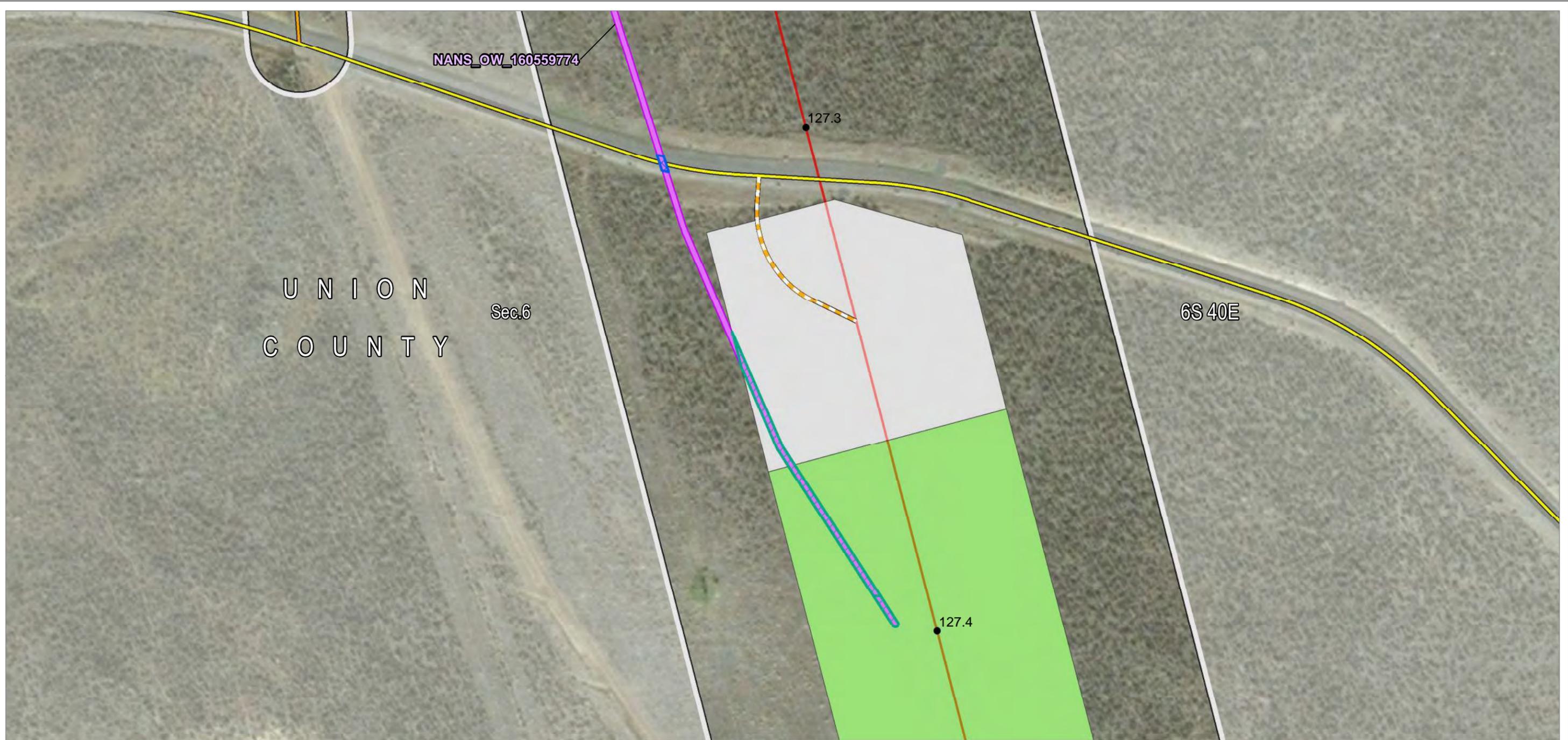
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

## Attachment K-102 Wetland and Other Waters Joint Permit Application Detail Maps Union County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts**
- Tenth-mile
- Construction Access**
- Existing Road, No Substantial Modification, 0-20% Improvements
  - Existing Road, Substantial Modification, 21-70% Improvements

- New Road, Primitive
- Rivers, Streams, and Canals

- Other Waters**
- NANS Streams (NHD)
- Stream Impact Type**
- Temporary

- Permanent

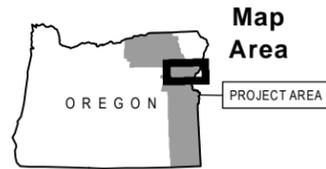
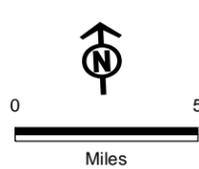
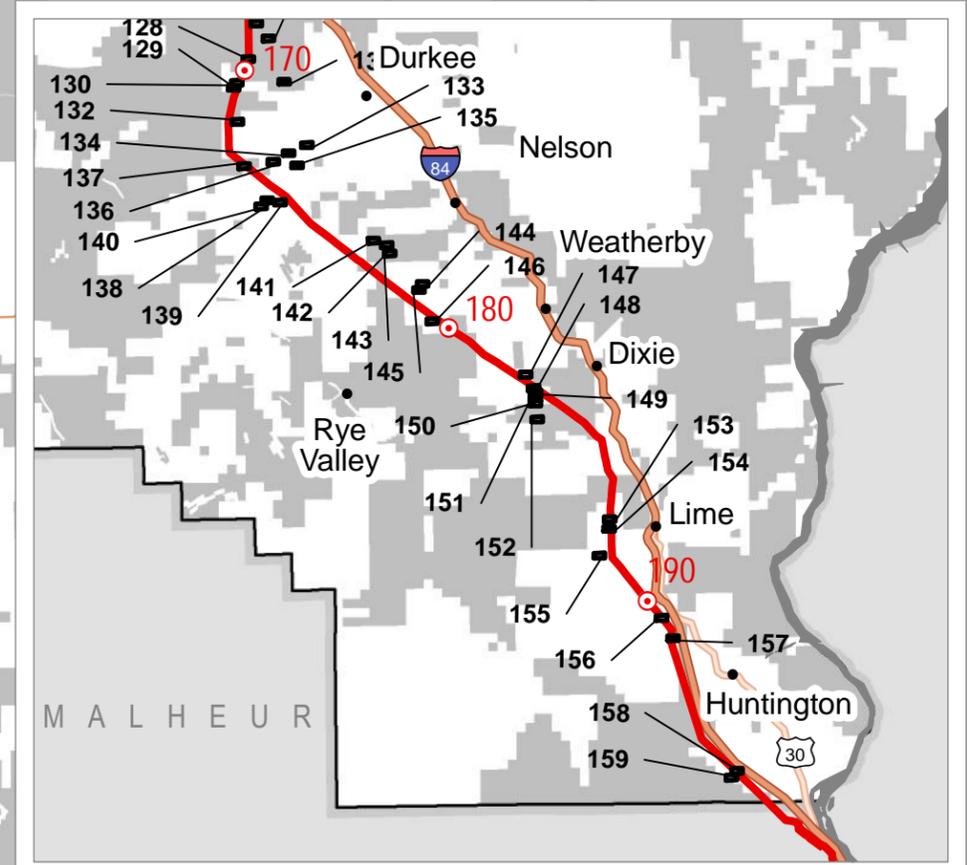
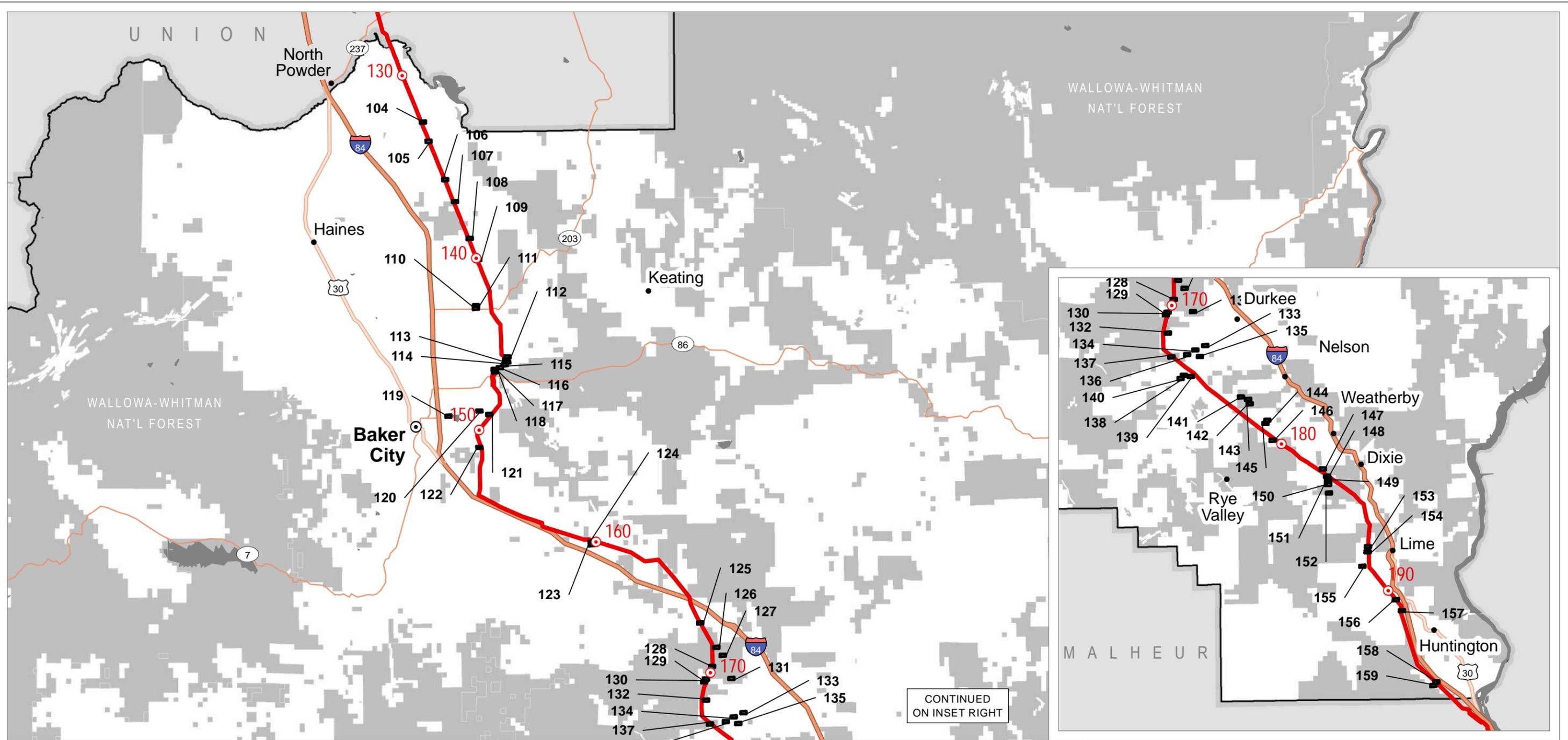
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-103**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Union County



**Project Features**

- Proposed Route
- Ten Mile Marker

**Map Index**

- Map Tile (Map #)

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

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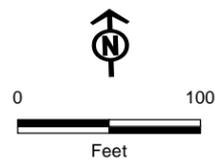
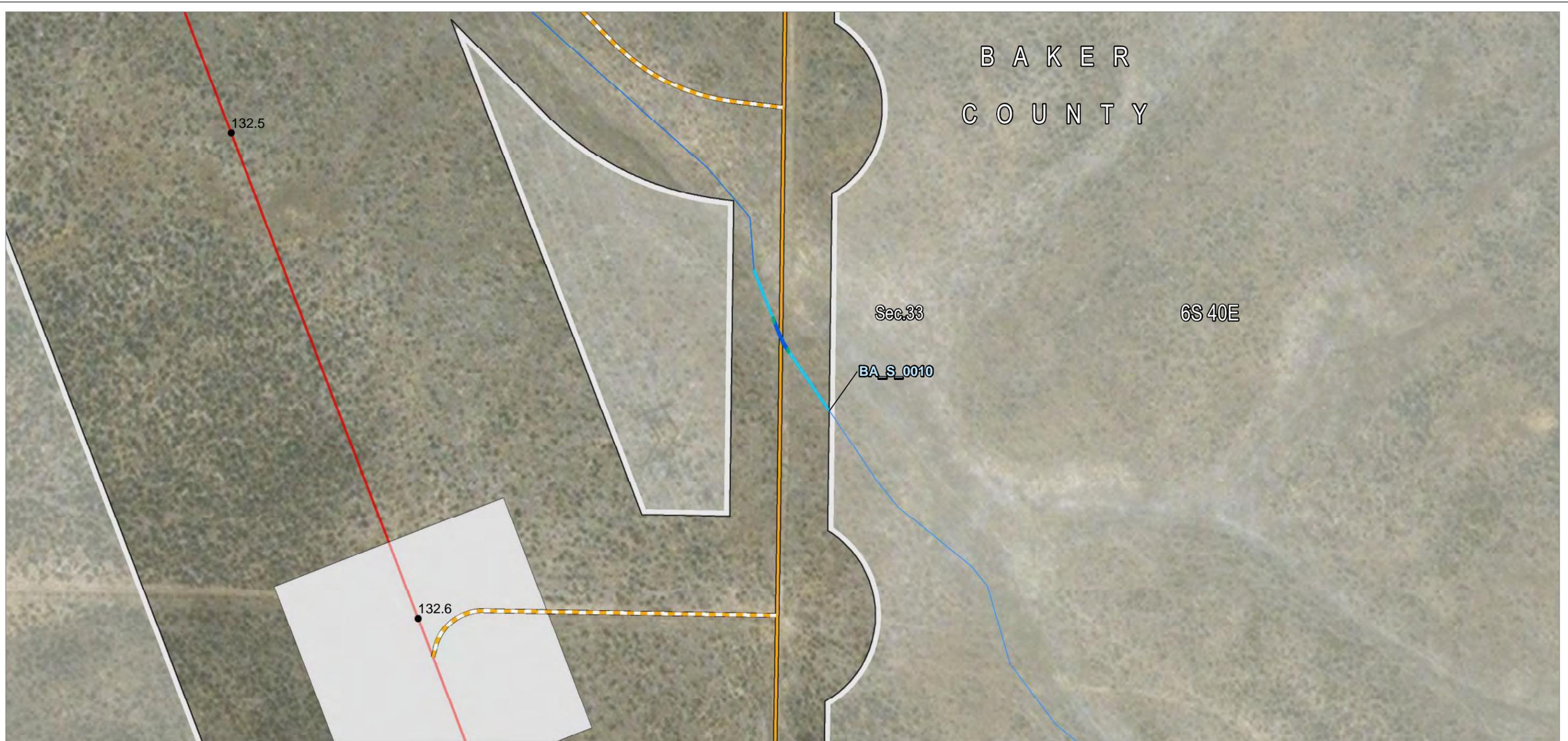


Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Appendix K  
Joint Permit Application  
Location Map**

Baker County

Map Index



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- Field Survey Streams
- Stream Impact Type
- Temporary
- Permanent

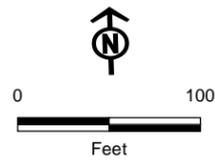
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-104**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Baker County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

**Mileposts**

- Tenth-mile
- Construction Access
- New Road, Primitive
- Rivers, Streams, and Canals

**Other Waters**

- Field Survey Streams
- Stream Impact Type
- Temporary

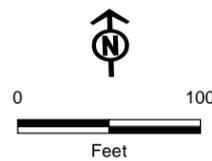
Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
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**Attachment K-105**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
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**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- Field Survey Streams
- Stream Impact Type
- Temporary
- Permanent

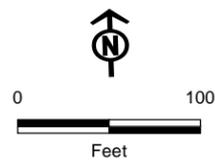
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
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**Attachment K-106**  
**Wetland and Other Waters**  
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**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Mileposts
- Tenth-mile

- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- Rivers, Streams, and Canals

- Other Waters
- Field Survey Streams

**Stream Impact Type**

- Temporary
- Permanent

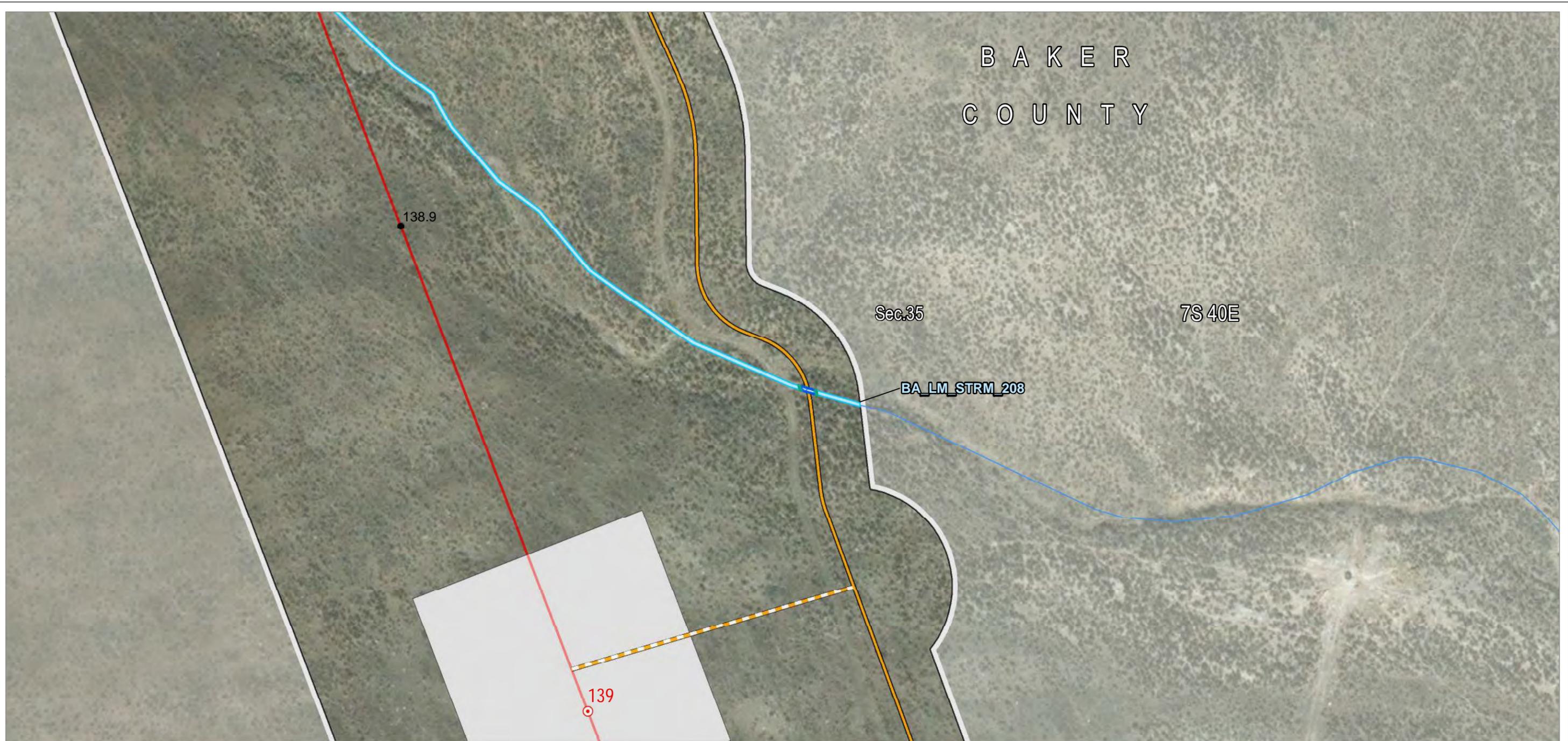
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-107**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Baker County



BAKER  
COUNTY

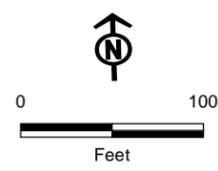
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**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Structure Work Area

- Mileposts
- Mile
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- Field Survey Streams
- Stream Impact Type
- Temporary
- Permanent

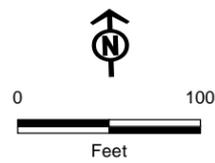
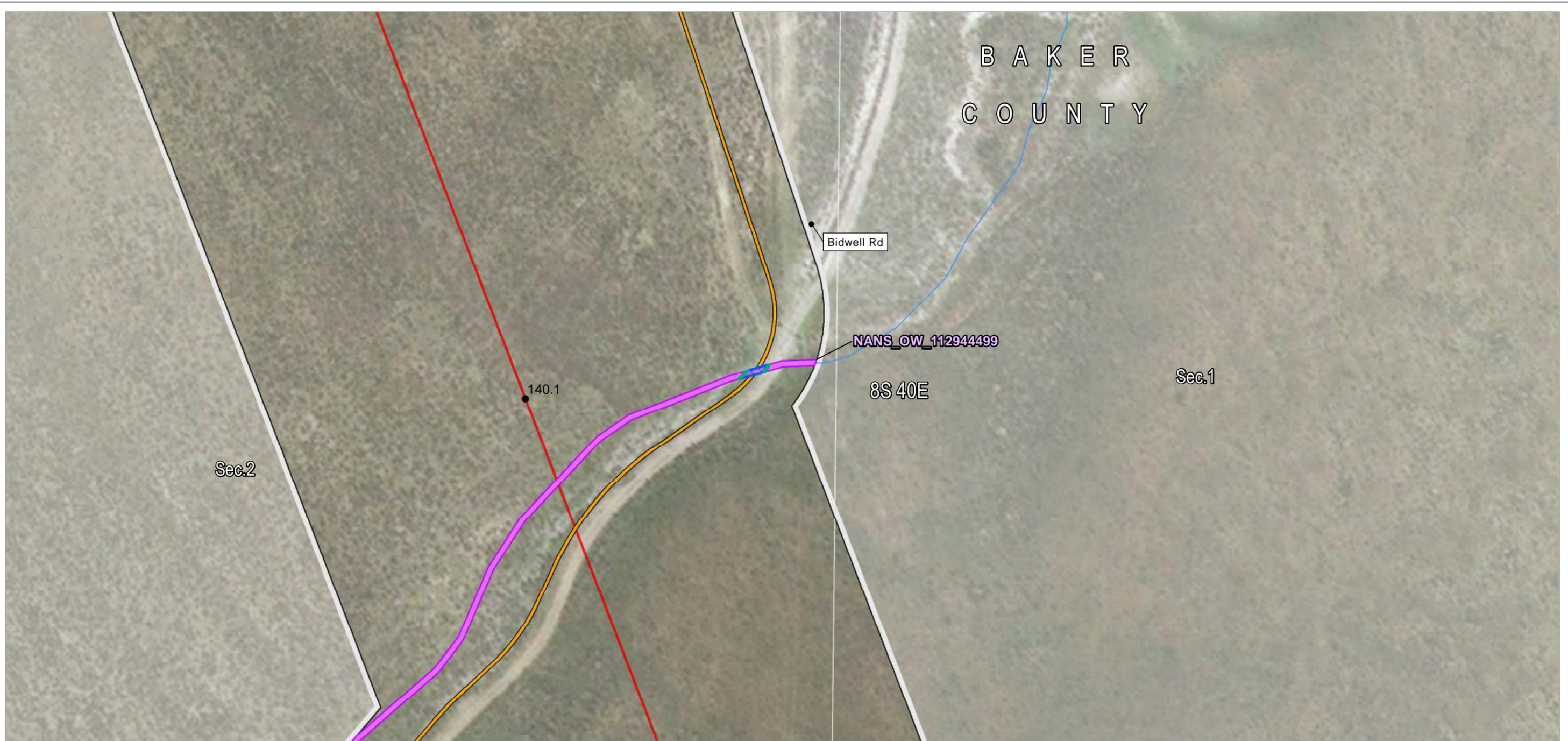
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



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**Attachment K-108**  
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**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Mileposts
- Tenth-mile

- Construction Access
- Existing Road, Substantial Modification, 21-70% Improvements
- Rivers, Streams, and Canals

- Other Waters
- NANS Streams (NHD)

**Stream Impact Type**

- Temporary
- Permanent

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

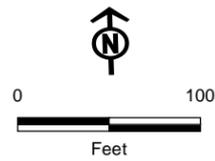
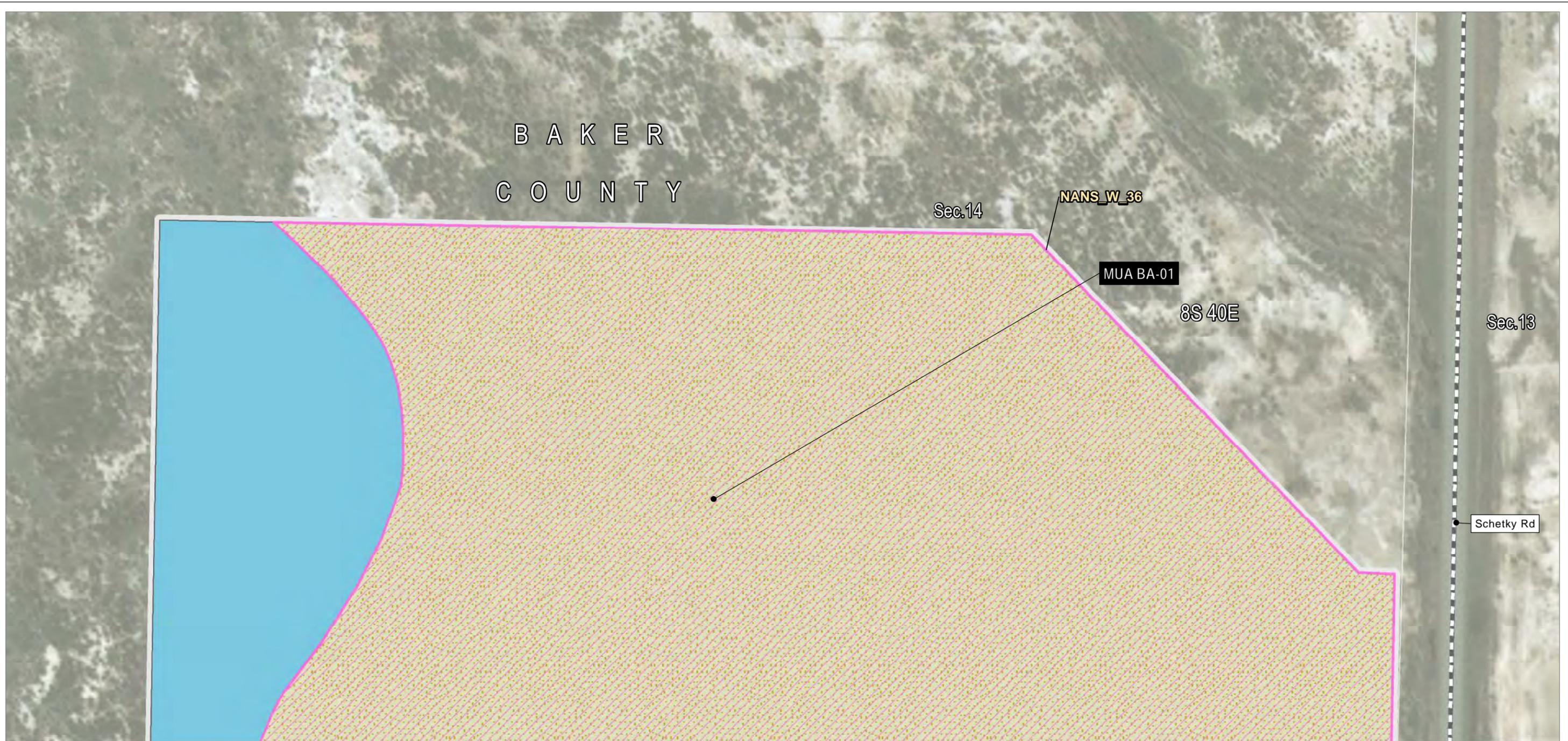
Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
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**Attachment K-109**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Baker County

BAKER  
COUNTY



Map Area

**Project Features**

Site Boundary

Proposed Route

Work Areas

Multi-Use Area

Transportation

Other Major Roads

Rivers, Streams, and Canals

Wetland

NANS Wetland (NWI)

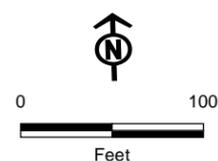
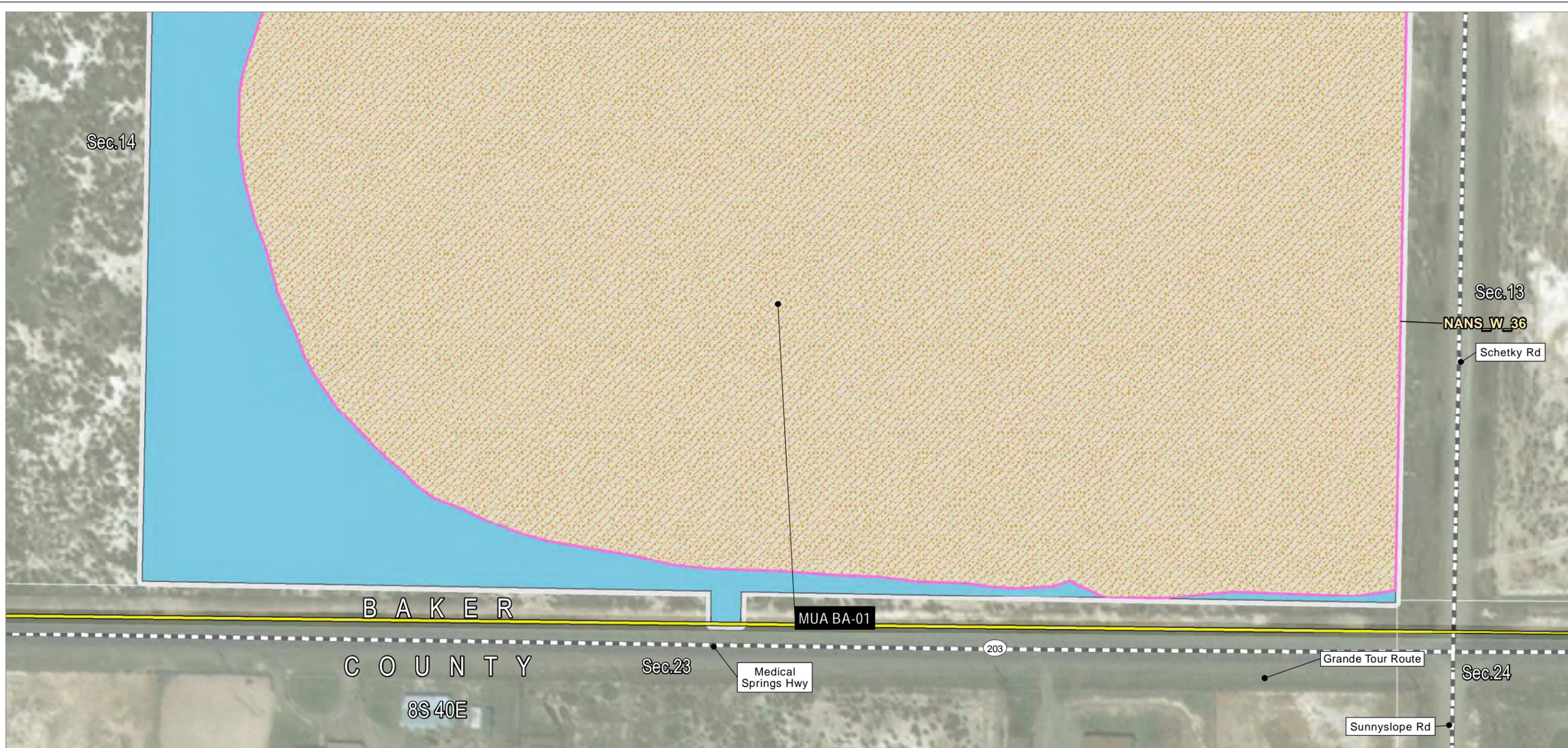
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



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**Attachment K-110**  
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**Detail Maps**  
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- Project Features**
- Site Boundary
  - Proposed Route
  - Work Areas
  - Multi-Use Area
  - Construction Access
  - Existing Road, No Substantial Modification, 0-20% Improvements
- Transportation**
- Other Major Roads
  - Rivers, Streams, and Canals
- Wetland**
- NANS Wetland (NWI)

**IDAHO POWER**  
An IDACORP Company

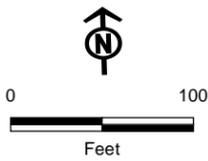
Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-111**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Baker County

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation Contour lines are not available at this time and will be added at a later date.

# BAKER COUNTY



### Project Features

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- New Road, Primitive
- Rivers, Streams, and Canals

- Other Waters
- NANS Streams (NHD)
- Stream Impact Type
- Temporary

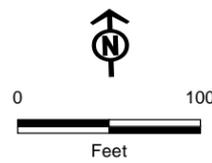
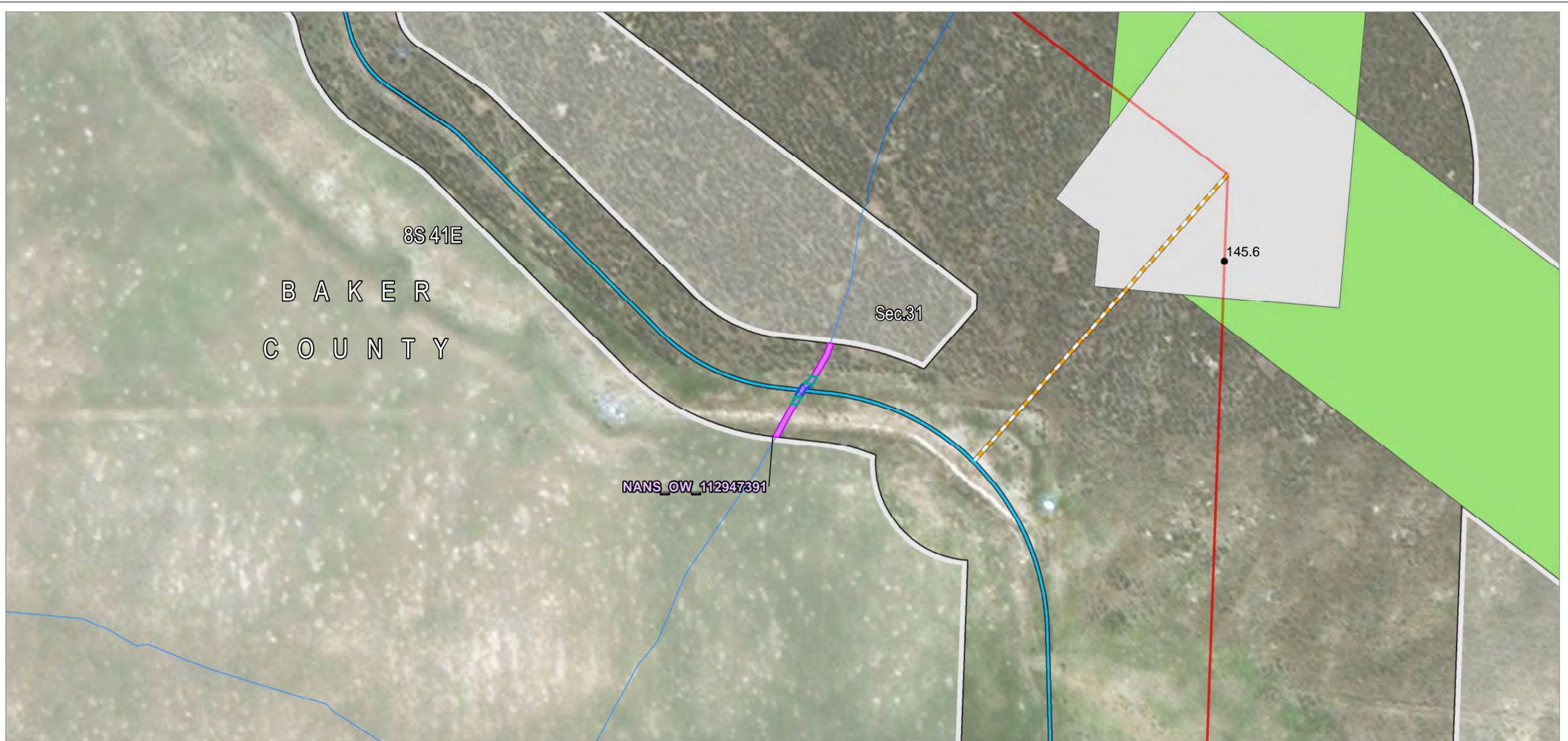
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Notes: Elevation Contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
Application for Site Certificate

**Attachment K-112**  
**Wetland and Other Waters**  
**Joint Permit Application**  
**Detail Maps**  
Baker County



**Project Features**

- Site Boundary
- Proposed Route
- Route Centerline
- Proposed Route
- Work Areas
- Pulling and Tensioning
- Structure Work Area

- Mileposts
- Tenth-mile
- Construction Access
- Existing Road, Substantial Modification, 71-100% Improvements
- New Road, Primitive

- Rivers, Streams, and Canals
- Other Waters
- NANS Streams (NHD)
- Stream Impact Type
- Temporary
- Permanent

Source(s): BLM, IPC, ODFW, ODOT, NPS, USDA, USFS, USGS, Ventyx, Esri, DigitalGlobe, GeoEys, Earthstar Geographics, CNES/Airbus DS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Notes: Elevation contour lines are not available at this time and will be added at a later date.



Boardman to Hemingway  
Transmission Line Project  
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**Attachment K-113**  
**Wetland and Other Waters**  
**Joint Permit Application**  
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Baker County