

Notice of Intent to Apply for a Site Certificate

**Nolin Hills Wind Power Project
Umatilla County, Oregon**

**Submitted to
Oregon Energy Facility Siting Council**

September 2017

Prepared for



Capital Power Corporation

Prepared by



Tetra Tech, Inc.

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Acronyms and Abbreviations

ACDP	Air Contaminant Discharge Permit
Applicant	Capital Power Corporation
ASC	Application for Site Certificate
BPA	Bonneville Power Administration
CFR	Code of Federal Regulations
EFSC	Energy Facility Siting Council
FAA	Federal Aviation Administration
GSU	Generator Step-Up
I-84	Interstate 84
kV	Kilovolt
met tower	Meteorological Tower
MW	Megawatt
NHD	National Hydrography Dataset
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NWI	National Wetlands Inventory
O&M	Operations and Maintenance
OAR	Oregon Administrative Rule
ODA	Oregon Department of Agriculture
ODEQ	Oregon Department of Environmental Quality
ODFW	Oregon Department of Fish and Wildlife
ODOE	Oregon Department of Energy
ORBIC	Oregon Biodiversity Information Center
ORS	Oregon Revised Statute
Project	Nolin Hills Wind Power Project
RSA	Rotor Swept Area
SCADA	Supervisory Control and Data Access
SHPO	State Historic Preservation Office
USFWS	U.S. Fish and Wildlife Service

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Exhibit A. Applicant Information – OAR 345-020-0011(1)(a)

(a) Exhibit A. Information about the applicant and participating persons, including:

(A) The name and address of the applicant including all co-owners of the proposed facility, the name, mailing address, email address and telephone number of the contact person for the NOI, and if there is a contact person other than the applicant, the name, title, mailing address, email address and telephone number of that person.

Response

Name and mailing address of Applicant:

Nolin Hills Wind, LLC
155 Federal Street, Suite 1200
Boston, MA 02110

Applicant contact persons with mailing address and telephone numbers:

Paul Wendelgass, Director of Business Development
Capital Power Corporation
155 Federal Street, Suite 1200
Boston, MA 02110
(617) 330-1325
PWendelgass@capitalpower.com

Contact persons other than the Applicant:

Carrie Konkol
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Portland, OR 97213
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Timothy L. McMahan
Stoel Rives LLP
760 SW Ninth Avenue, Suite 3000
Portland, OR 97205
(503) 294-9517
Tim.McMahan@stoel.com

(B) The contact name, mailing address, email address and telephone number of all participating persons, other than individuals, including but not limited to any parent corporation of the applicant, persons upon whom the applicant will rely for third-party permits or approvals related to the facility, and persons upon whom the applicant will rely in meeting any facility standard adopted by the Council.

Response

Nolin Hills Wind, LLC is a wholly-owned subsidiary of Capital Power (US) Holdings, Inc.
Capital Power Development, LLC
EPCOR Tower
1200-10423 101 St. NW
Edmonton, Alberta, Canada, T6H 0E9
(617) 330-1325
PWendelgass@capitalpower.com

Capital Power (US) Holdings, Inc., is a wholly-owned subsidiary of Capital Power Corporation.
Capital Power Corporation
EPCOR Tower
1200-10423 101 St. NW
Edmonton, Alberta, Canada, T6H 0E9
(617) 330-1325
PWendelgass@capitalpower.com

Contact name, mailing address, email address, and telephone number:

Paul Wendelgass, Director of Business Development

Capital Power Corporation

155 Federal Street, Suite 1200

Boston, MA 02110

(617) 330-1325

PWendelgass@capitalpower.com

(C) If the applicant is a corporation, it shall give:

(i) The full name, official designation, mailing address, email address and telephone number of the officer responsible for submitting the NOI;

(ii) The date and place of its incorporation;

(iii) A copy of its articles of incorporation and its authorization for submitting the NOI; and

(iv) In the case of a corporation not incorporated in Oregon, the name and address of the resident attorney-in-fact in this state and proof of registration to do business in Oregon.

Response

The Applicant is not a corporation. Therefore, this rule is not applicable.

(D) If the applicant is a wholly owned subsidiary of a company, corporation or other business entity, in addition to the information required by paragraph (C), it shall give the full name and business address of each of the applicant's full or partial owners.

Response

Nolin Hills Wind, LLC is a wholly-owned subsidiary of Capital Power (US) Holdings, Inc.

Capital Power (US) Holdings, Inc.

155 Federal St., Suite 1200

Boston, MA 02110

Capital Power (US) Holdings, Inc., is a wholly-owned subsidiary of Capital Power Corporation.

EPCOR Tower
1200-10423 101 St. NW
Edmonton, Alberta, Canada, T6H 0E9
(617) 330-1325
PWendelgass@capitalpower.com

(E) If the person submitting the NOI is an association of citizens, a joint venture or a partnership, it shall give:

- (i) The full name, official designation, mailing address, email address and telephone number of the person responsible for submitting the NOI;*
- (ii) The name, business address and telephone number of each person participating in the association, joint venture or partnership and the percentage interest held by each;*
- (iii) Proof of registration to do business in Oregon;*
- (iv) A copy of its articles of association, joint venture agreement or partnership agreement and a list of its members and their cities of residence; and*
- (v) If there are no articles of association, joint venture agreement or partnership agreement, the applicant shall state that fact over the signature of each member.*

Response

The Applicant is not an association of citizens, a joint venture, or partnership. Therefore, this rule is not applicable.

(F) If the applicant is a public or governmental entity, it shall give:

- (i) The full name, official designation, mailing address, email address and telephone number of the person responsible for submitting the NOI; and*
- (ii) Written authorization from the entity's governing body to submit an NOI.*

Response

The Applicant is not a public or governmental entity. Therefore, this rule is not applicable.

(G) If the applicant is an individual, the individual shall give his or her mailing address, email address and telephone number.

Response

The Applicant is not an individual. Therefore, this rule is not applicable.

(H) If the applicant is a limited liability company, it shall give:

(i) The full name, official designation, mailing address, email address and telephone number of the officer responsible for submitting the NOI;

(ii) The date and place of its formation;

(iii) A copy of its articles of organization and its authorization for submitting the NOI; and

(iv) In the case of a limited liability company not registered in Oregon, the name and address of the resident attorney-in-fact in this state and proof of registration to do business in Oregon.

Response

The Applicant is a limited liability company.

Nolin Hills Wind, LLC

155 Federal Street, Suite 1200

Boston, MA 02110

Attention: Chris Kopecky, Vice President

Capital Power Corporation

(617) 274-7706

ckopecky@capitalpower.com

Nolin Hills Wind, LLC was incorporated in the State of Delaware in October 2014. The articles of incorporation and authorization for submitting this Notice of Intent (NOI) are contained in the Certificate of Formation dated October 9, 2014, provided in Attachment 1.

Exhibit B. Facility Description – OAR 345-020-0011(1)(b)

(b) Exhibit B. Information about the proposed facility, including:

(A) A description of the proposed energy facility, including as applicable:

(i) The nominal electric generating capacity and the average electrical generating capacity, as defined in ORS 469.300.

Response

Overview of the Proposed Facility

Nolin Hills Wind, LLC (the Applicant) proposes to construct the Nolin Hills Wind Power Project (Project), a wind energy facility with a nominal generating capacity of approximately 350 megawatts (MW) in Umatilla County, Oregon. The Project Site Boundary encompasses approximately 44,900 acres, and is located entirely on private land. The number, size, and actual layout of the wind turbine generators have not yet been determined. The Project will connect to the proposed Bonneville Power Administration (BPA) Stanfield Substation located approximately 8 miles north of the Site Boundary near Stanfield, Oregon.

The Applicant intends to begin onsite construction by 2019, pending issuance of a Site Certificate from the Energy Facility Siting Council (EFSC), with commissioning completed and commercial operation targeted for the end of 2020.

(ii) Major components, structures and systems, including a description of the size, type and configuration of equipment used to generate electricity and useful thermal energy.

Response

Major Components, Structures, and Systems

Major components, structures, and systems associated with the proposed Project are listed below and summarized in this Exhibit:

- Turbines, including the nacelle, blades, rotor, and tower;
- Turbine foundations; and
- Generator Step-Up (GSU) transformers and transformer foundations.

The analysis presented in the forthcoming Application for Site Certificate (ASC) will present a worst-case scenario with respect to each impact analyzed. For any given impact, the turbine model

that causes the greatest impact to the resource under consideration will be evaluated and presented in the respective exhibit. For example, for scenic resources, an analysis will be conducted using the tallest turbine and the layout with the greatest number of turbines. In this manner, the ASC will ensure that the Project meets all of the EFSC standards for a Site Certificate, and will allow the Applicant flexibility in micro-siting turbines within the EFSC-approved development areas.

Turbines

A wind turbine generator consists of a three-bladed rotor, attached to a nacelle that is mounted on a tubular tower (see Attachment 2, Figure B-1). In operating mode, the rotor is located on the upwind side of the tower. The Applicant is considering wind turbine models with specifications that have the following ranges:

- a) Nominal power ranging from 2.0 MW to 4.2 MW;
- b) Rotor diameter ranging from 380 to 493 feet; and
- c) Tower heights ranging from 262 to 394 feet. Thus, the combined tower and rotor height will not exceed 640 feet.

Turbines will be spaced approximately 1,490 to 2,980 feet apart within a row, and approximately 1 to 1.3 miles apart between rows of turbines, with some rows as close as 3,400 feet apart. Turbines will be connected via electrical collection and fiber-optic communication lines, feeding turbine output into one or more on-site substations. The collection and communications lines will be primarily placed underground, but may include some overhead segments where avoidance of sensitive features is necessary, or where underground cabling is not feasible. At the on-site substation(s), power will then be “stepped up” and fed into the proposed 230-kilovolt (kV) transmission line. Aviation lighting will be mounted on turbines as per Federal Aviation Administration (FAA) requirements.

Nacelles

The nacelle sits atop the turbine tower. It houses the gearbox, generator, power converter and control systems for the turbine, and is where the turbine blades attach. Access to the nacelle is via a ladder inside the turbine tower, which is accessible by a locked doorway at the base of the tower. The nacelle is mounted to the turbine tower on a geared plate that allows the turbine to rotate horizontally, orienting the nacelle such that the rotor faces into the wind to maximize capture of the available wind resource.

Blades and Rotors

Turbine blades are attached to the rotor hub, which is mounted to the front of the nacelle. A rotor blade is made of lightweight wood, metal, laminated fiberglass and carbon fiber, and typically is constructed as a single piece (although it is possible that blades may be fabricated in two pieces for ease of transport and assembly at the Project). The rotor diameters under consideration by the

Applicant range from 380 to 493 feet. When operating, the rotor turns at a rate between 6 and 16 revolutions per minute. The area covered by the rotating blades is referred to as the rotor swept area (RSA). The turbine begins generating electricity at wind speeds of approximately 8 miles per hour, although this wind speed varies by turbine size and manufacturer. At wind speeds greater than about 55 miles per hour, the turbines will shut down and the rotor will be automatically locked to prevent damage to the machine.

Turbine Towers

A turbine tower is a cylindrical steel structure tapered from the base to the top. The nacelle is mounted on top. Tower heights vary by turbine model and manufacturer, with those under consideration by the Applicant ranging from 262 to 394 feet (see Attachment 2, Figure B-1). A self-diagnosing controller is located inside the base within the tower. Each tower is hollow, and will feature a locked entry door at ground level, with an internal access ladder with safety platforms for access to the nacelle. Towers will be fabricated in sections and assembled on-site. Towers will be uniformly painted an FAA-approved color suitable for daytime marking and air navigation.

Turbine Foundations

A turbine tower is secured to a reinforced concrete foundation. The actual foundation type and design for each tower will be determined after on-site geotechnical studies are completed, but are often either spread-footing (most common) or caisson-type concrete foundations (see Attachment 2, Figure B-2). Typical spread-footing foundations reach a depth of 8 to 10 feet below grade, and can be as large as 82 feet in diameter. At some locations, foundation subbase may require to be improved to raise the bearing capacity. During construction, a temporary staging area will be cleared beside each turbine tower base, where turbine components will be offloaded and staged prior to assembly. An engineered, graveled pad may be installed adjacent to the foundation. During construction, this or temporary rig matting will serve as a pad for the construction crane, and following construction, a parking area for maintenance vehicles.

Pad-mount Transformer and Transformer Foundation

For wind turbines that do not have a step-up transformer in the nacelle, a pad-mounted transformer is installed at each turbine to step up the output voltage from the turbine (575 – 900 volts) to the collector system voltage (34.5 kV). Typically, the pad-mount transformer is a rectangular box with a footprint approximately 7.5 by 8.5 feet located adjacent to the base of the turbine tower. Support for the transformer will be provided by a concrete pad or foundation approximately 8 inches thick, placed over approximately 2 feet of weak concrete fill. The thickness and extent of the GSU transformer foundation is dependent upon soil conditions at the site, and will be determined after the geotechnical study is conducted. The entire support structure will be above 3 feet below grade. Approximately 1.5 cubic yards of concrete will be used in the pad, and approximately 11 cubic yards will be used in the concrete fill, for a total of approximately 13 cubic yards of concrete per transformer.

(iii) Methods for waste management and waste disposal, including, to the extent known, the amount of wastewater the applicant anticipates, the applicant's plans for disposal of wastewater and storm water, and the location of disposal.

Response

Wind turbines do not generate waste water or solid waste during operation. Small quantities of waste water and solid waste are generated by the operations and maintenance (O&M) building, the details of which are covered in Exhibit K.

(iv) For thermal power plants:

(I) A discussion of the source, quantity and availability of all fuels proposed to be used in the facility to generate electricity or useful thermal energy.

(II) Methods for disposal of waste heat.

Response

The Project is not a thermal power plant. The Project will generate wind power; consequently, no waste heat will be generated.

(v) For transmission lines, approximate transmission line voltage, load carrying capacity and type of current.

Response

Power generated by the Project will be transmitted by 34.5-kV electric cables. The majority of the electrical collection system will be buried underground in a trench approximately 3 feet wide, within a greater 24-foot-wide disturbance area, and will be approximately 4 feet deep.

The Applicant requests flexibility in siting a limited amount of overhead 34.5-kV cabling for areas where underground cabling is not feasible. The aboveground portion of the electrical collection system will be a 34.5-kV collector line supported by wooden tangential monopole, monopole with guy wire, or H-frame structures, 115 to 130 feet in height. The final siting of the collector system will be identified once final engineering drawings are completed.

The Applicant proposes to construct up to two on-site collector substations to increase the voltage from the 34.5-kV collection system to 230-kV, for transmission through the proposed overhead transmission line that will connect the Project to the proposed BPA Stanfield Substation. The 230-kV overhead transmission line will be supported by H-frame or monopole structures. The structures will be approximately 75 feet above grade. The Applicant requests flexibility in the final siting of the Project collector substation(s), pending final engineering drawings.

(vi) For pipelines, approximate operating pressure and delivery capacity in thousand cubic feet per day.

Response

The Project is not a pipeline. Therefore, this rule is not applicable.

(vii) For surface facilities related to underground gas storage, estimated daily injection and withdrawal rates, horsepower compression required to operate at design injection or withdrawal rates, operating pressure range and fuel type of compressors.

Response

The Project does not involve underground gas storage. Therefore, this rule is not applicable.

(viii) For facilities to store liquefied natural gas, the approximate volume, maximum pressure, liquefaction and gasification capacity in thousand cubic feet per hour.

Response

The Project does not propose the storage of liquefied natural gas. Therefore, this rule is not applicable.

(B) A description of major components, structures and systems of each related or supporting facility.

Response

Related or Supporting Facilities

Related or supporting facilities consist of the 34.5-kV electrical collector lines, one or more on-site collector substations, a 230-kV transmission line, communication and Supervisory Control and Data Access (SCADA) systems, an O&M building, meteorological (met) towers, access roads, and additional construction areas such as temporary staging areas and a concrete batch plant.

34.5-kV Electrical Collection System

The Project's collection system carries power generated by the Project's turbines at 34.5 kV. Power will be initially generated at 575 to 900 volts by the Project's turbines, then stepped up to 34.5 kV through the pad-mount transformers and conducted onto the 34.5-kV electrical collector lines. The collector lines will then carry the power to one or more on-site collector substations, where the

voltage will be stepped up from 34.5 kV to as much as 230 kV for overhead transmission to the point of interconnection to BPA's transmission system.

The 34.5-kV collector lines consist of five separate cables; three stranded metal conductor cables in a size range of 1/0 to 1250MCM American Wire Gauge, one 4/0 American Wire Gauge ground wire, and one 1 to 2-inch conduit to accommodate a communications wire. The three conductor wires are bundled together, while the ground wire and communications conduit are each laid beside the conductor bundle. The collector lines will be buried approximately 4 feet deep. Cable may be laid using a plow technique or by trenching, with an approximate width of 3 feet, depending on terrain. In either method, any excavation will be backfilled after the collector line is laid. The collector lines will run parallel to turbine access roads where possible, and junction splice boxes will be positioned intermittently along the collector lines for maintenance access.

It is possible that some of the collector lines will need to be run overhead in situations where a buried cable would be infeasible, such as at stream or canyon crossings. In such instances, overhead collector lines will be supported by a wooden structure. Each support pole will be buried approximately 6 feet in the ground, and will extend to a height of approximately 115 to 130 feet above ground. The structures will be spaced approximately 400 to 900 feet apart, depending on specific site conditions. Final siting of the collector lines will be determined when the engineering design is complete, and will be detailed in the ASC.

Collector Substation(s)

The Project will include up to two collector substations, occupying 8 acres and 4 acres, respectively. Substation 1 will include two transformers whereas Substation 2 will include one transformer. The collector substations will be placed strategically within the Site Boundary, to aggregate the power being collected by the 34.5-kV collector lines, which may include foundations or directional anchoring system.

230-kV Transmission Line

A new approximately 18-mile overhead 230-kV transmission line will connect the Project to BPA's proposed Stanfield Substation. The overhead transmission line either will be supported by H-frame wooden structures or monopole structures.

The Applicant is in the process of identifying the 230-kV transmission line route, and requests flexibility in siting this structure, including locating the structure within a micro-siting corridor of sufficient dimension to address natural resource constraints and property owner considerations. Preliminary studies and analyses will be completed for the transmission line route and presented in the ASC.

Communication and SCADA System

A communication system consisting of fiber optic and copper communication lines will connect the turbines and collector substation(s) to the O&M building. These communication lines will run with the collector lines, either buried or overhead, depending on site-specific conditions. Where buried, the communication lines are placed above the collector lines in the trench, and where overhead, run alongside the collector lines. This communication system allows each turbine and substation to be monitored by a SCADA system, installed in the O&M building. This system monitors each turbine for variables such as meteorological conditions, critical operating parameters, and power output. The turbines are controlled via the SCADA system, and can be controlled remotely. SCADA software is tuned specifically to the needs of each wind project by the turbine manufacturer or a third-party SCADA vendor.

Operations and Maintenance Building

The O&M building will have a footprint of approximately 5,000 square-feet (approximately 45 by 110 feet) and will include a second story loft storage area that will be 45 feet by 55 feet. The building will be located within a 77,500-square-foot (1.8 acres) area which will include a parking lot for employees, visitors, and Project equipment. The O&M building will consist of offices, a break room, kitchen, a bathroom with shower, utility room, storage room, server room, conference room, and warehouse. Electricity and telephone service will be provided to the O&M building from local providers using overhead and/or underground lines. Water will be provided by an on-site well. Water use is not anticipated to be greater than 1,600 to 2,000 gallons per day, so a permit will not be required for such a well. The kitchen, toilets, and shower will drain into an on-site septic system, also located within the O&M building footprint.

Permanent Meteorological Towers

As many as five permanent met towers will be located throughout the Project Site Boundary. Each permanent met tower will be an un-guyed (free-standing) structure, with total height corresponding to the hub height of the associated turbines. The foundation of each permanent met tower will be a concrete pad approximately 25 feet in diameter and 10 feet deep, within a total disturbance area of approximately 2 acres (Attachment 2, Figure B-3). Each tower will be fitted with aviation lighting according to FAA requirements.

Project Access Roads and Railroad

The primary access to the Project will be from Interstate 84 (I-84) via Rieth Road. Oregon Route 395 will be used to access eastern portions of the Project, but to a lesser extent than Rieth Road. Existing county and private roads will provide access to the Project's components, including turbines and the O&M building. Upgrades to existing roads or the construction of new roads will be done according to applicable state and county road standards, and after consultation with Umatilla County staff members.

Typical existing roads are generally 8 to 16 feet in width. Proposed Applicant improvements include widening some existing roads up to 18 feet to provide access for construction vehicles. Improved roads will include a gravel, all-weather surfaced roadbed. During construction, some roads may need an additional shoulder for turnaround areas for larger vehicles. These areas will be reclaimed upon completion of construction. All existing public roads used to access the Project will be left in “as good or better” condition than that which existed prior to the start of construction.

At this time, an exact layout of proposed new roads is not final. It is the Applicant's intent to use existing roads wherever possible, and to minimize impacts to the agricultural and grazing effectiveness of the land by working in conjunction with the landowners on new road construction. All newly constructed roads will be graded and graveled to meet load requirements for all equipment. Each road will be as much as 18 feet wide, with additional margins as wide as 16 feet on each side, for a total corridor width of 50 feet which will be temporarily disturbed during construction. An additional 40 feet may be temporarily disturbed for crane paths during construction. Use of the roads may continue after construction, or new roads may be removed and the land reclaimed to pre-construction conditions.

Railroads may also provide access to the Project, and will be described in more detail in the ASC.

Temporary Staging Area

During construction, the Applicant will clear up to two temporary staging areas within the Site Boundary, to facilitate the delivery and assembly of material and equipment. The staging areas will be a graded area, surfaced in gravel, of approximately 20 acres. The temporary staging areas may also be fenced along the perimeter. The staging areas will be reclaimed to pre-construction conditions unless an agreement with the landowner leads to some or all of a staging area being retained after construction. Additional information on the temporary staging areas, including location, size, and other specifics, will be detailed in the ASC.

Temporary Concrete Batch Plant and Rock Quarry

A temporary concrete batch plant will be installed within the Site Boundary during construction of the Project. It will be located within the boundary of the temporary staging area, and will be permitted through Umatilla County by a selected contractor. Rock will be obtained from existing, permitted quarries near the Project, if possible. However, if a new quarry is required, it will be permitted and developed by a selected contractor. These third-party permits are described in more detail in Exhibit E.

(C) The approximate dimensions of major facility structures and visible features.

Response

Approximate Dimensions of Major Project Structures and Features

Wind Turbine Dimensions

Attachment 2, Figure B-1 shows the typical configuration for a wind turbine, illustrating the range of dimensions for the total height, tower, rotor blade, and rotor diameter under consideration for the Project.

Table B-1. Approximate Dimensions of Major Turbine Structures and Visible Features

Turbine Dimension	Minimum	Maximum
Total Turbine Height	453 feet	640 feet
Tower Height	262 feet	394 feet
Rotor Blade Diameter	380 feet	493 feet
Rotor Blade Height	187 feet	242 feet
Note: All values are approximate.		

Operations and Maintenance Building Dimensions

As stated above, the Applicant plans to construct an O&M building for the Project. The O&M building will be located on approximately 1.8 acres and will consist of a building approximately 45 feet by 110 feet in size.

Collector Substation Dimensions

As stated above, up to two on-site collector substations, approximately 8 acres and 4 acres in size, are proposed to be installed.

Transmission Line Dimensions

As stated above, the overhead transmission line route from the on-site collector substation(s) to the proposed Stanfield Substation will be approximately 18-miles in length. The overhead transmission line either will be supported by wooden H-frame or monopole structures, which may include foundations or a directional anchoring system.

Exhibit C. Facility Location – OAR 345-020-0011(1)(c)

(c) Exhibit C. A description of the location of the proposed energy facility site and the proposed site of each related or supporting facility and all areas that might be temporarily disturbed during construction of the facility, including the approximate land area of each.

Response

The proposed Project is located in Umatilla County, Oregon, south of I-84, and is approximately 4 miles south of Echo and 10 miles west of Pendleton (see Figure G-1 in Attachment 4). The Project Site Boundary includes approximately 44,900 acres of private land. The Applicant has negotiated or in is in the final stages of negotiating long-term wind energy leases or easements with the landowners. Easements also will be negotiated with adjacent landowners for the 230-kV transmission line corridor outside of the Site Boundary, as needed. The Site Boundary encompasses some or all of the townships, ranges, and sections identified in Table C-1.

Table C-1 Township, Range, and Section within the Project Site Boundary

Township and Range	Sections
T2N R29E	1, 2, 3, 10, 11, 12, 14, 15, 22, 23, 24, 25, 36
T2N R30E	5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36
T1N R29E	1, 12, 13, 14, 15, 22, 23, 24, 25, 26, 35
T1N R30E	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 15, 16, 17, 18, 19, 20, 21, 28, 29, 30, 31, 32

In the ASC, the Applicant will define micrositing corridors within which all Project components will be located. This approach will allow the Applicant the flexibility to adjust the location of Project components, to maximize the available wind resource, and minimize, as much as possible, impacts to sensitive resources. The micrositing corridors will be surveyed in accordance with Oregon Department of Energy (ODOE) requirements for the ASC, and impact calculations and analyses will be based on a worst case, or most conservative, scenario customized for each resource under an EFSC standard. The Applicant will demonstrate as part of the ASC that the proposed Project meets all applicable standards for a wind energy facility.

Exhibit D. Alternative Locations – OAR 345-020-0011(1)(d)

(d) Exhibit D. If the proposed energy facility is a pipeline or a transmission line or has, as a related or supporting facility, a transmission line or pipeline that, by itself, is an energy facility under the definition in ORS 469.300, identification of at least two proposed corridors, as defined in OAR 345-001-0010, or identification of a single proposed corridor with an explanation of why alternate corridors are unlikely to better meet the applicant's needs and satisfy the Council's standards. The applicant shall include an explanation of the basis for selecting the proposed corridor(s) and, for each proposed corridor, the information described in subsections (e), (g), (i), (j), (k), (n) and (p) that is available from existing maps, aerial photographs, and a search of readily available literature.

Response

The proposed Project is not a pipeline or a transmission line as defined by Oregon Revised Statute (ORS) 469.300. The Project includes neither a pipeline nor transmission line that, by themselves, would be considered an energy facility under ORS 469.300(11)(a)(C).

The Project will require, as a related or supporting facility, a new overhead 230-kV transmission line. The proposed transmission line will interconnect the proposed on-site collector substation(s) to BPA's transmission system at the proposed BPA Stanfield Substation. The proposed 230-kV transmission line route will be approximately 18 miles in length. This transmission line does not fall within the definition of "energy facility" under ORS 469.300(11)(a)(C).

Exhibit E. Permits Needed for Construction and Operation – OAR 345-020-0011(1)(e)

(e) Exhibit E. Identification of all federal, state and local government permits related to the siting of the proposed facility, a legal citation of the statute, rule or ordinance governing each permit, and the name, address, email address and telephone number of the agency or office responsible for each permit. For each permit, the applicant shall provide a preliminary analysis of whether the permit should or should not be included in and governed by the site certificate.

Response

Table E-1 identifies the federal, state, and local government permits required for construction and operation of the Project.

Table E-1. Permits or other Approvals Required for Construction and Operation of the Project

Permit	Agency	Authority/Description
Federal Permits		
Record of Decision/ National Environmental Policy Act Compliance	Bonneville Power Administration Attn: Eric Taylor, Customer Manager PO Box 3621 Portland, OR 97208-3621 (360) 619-6014 ektaylor@bpa.gov	National Environmental Policy Act (NEPA), Section 102 (42 USC § 4332); 40 CFR § 1500 Description: Required as part of BPA's decision to interconnect the Project to BPA's transmission network.
Clean Water Act, Section 404	U.S. Army Corps of Engineers, Portland District Attn: Peter Olmstead, Project Manager PO Box 2946 Portland, OR 97208-2946 (541) 962-0401 Peter.d.olmstead@usace.army.mil	Clean Water Act, Section 404 (33 USC § 1344); 33 Code of Federal Regulations (CFR) §§ 320, 323, 325-28, and 330 Description: A Section 404 Permit will be required if dredge or fill occurs in waters of the United States.

Table E-1. Permits or other Approvals Required for Construction and Operation of the Project

Permit	Agency	Authority/Description
Notice of Proposed Construction or Alteration (Form 7460.1)	Federal Aviation Administration Attn: Dan Shoemaker Airspace Specialist Seattle Obstruction Evaluation Group 1601 Lind Ave SW Renton, WA 98057 (425) 227-2791 Dan.shoemaker@faa.gov	Federal Aviation Act of 1958 (14 USC § 44718); 14 CFR § 77 Description: Required for construction of any object over 200 feet above ground level at the location of the proposed action, and for construction of structures within specified distances of runways or helipads.
Eagle Take Permit	U.S. Fish and Wildlife Service (USFWS) Attn: Suzanne Anderson USFWS – La Grande Field Office 3502 Hwy 30 La Grande, OR 97850 (541) 962-8583 Suzanne.Anderson@fws.gov	Bald and Golden Eagle Protection Act; 50 CFR §§ 13, 22 Eagle Permits; Take Necessary to Protect Interests in Particular Localities; Final Rules FR 46836 September 11, 2009 Description: Consultation will occur to determine if any permits are necessary.
State Permits		
Energy Facility Site Certificate	Oregon Department of Energy and Energy Facility Siting Council Attn: Katie Clifford 550 Capitol Street NE Salem, OR 97301 (503) 378-8692 Katie.Clifford@oregon.gov	ORS 469.300 et seq.; OAR Chapter 345, Divisions 1, 21-24 Description: This site certificate is the subject of this NOI.
Removal/Fill Permit	Oregon Department of State Lands Attn: Bethany Herrington Eastern Region 1645 NE Forbes Rd., Suite 112 Bend, OR 97701 (541) 325-6170 Bethany.Herrington@state.or.us	ORS 196; OAR Chapter 141, Division 85 Description: A removal-fill permit is required if 50 cubic yards or more of material is removed, filled, or altered within a jurisdictional water of the State.

Table E-1. Permits or other Approvals Required for Construction and Operation of the Project

Permit	Agency	Authority/Description
On-site Sewage Disposal Construction-Installation Permit	Oregon Department of Environmental Quality Water Quality On-site Program, Eastern Region Attn: Bob Marshall 800 SE Emigrant, Suite 330 Pendleton, OR 97801 (541) 276-4063 Marshall.Bob@deq.state.or.us	ORS 454 and 468B; OAR Chapter 340, Divisions 71 Description: Facilities with on-site sewage disposal system must obtain a Construction-Installation Permit before construction. The Project will have a daily sewage flow of fewer than 2,500 gallons and the Applicant's third-party contractor will obtain from the Oregon Department of Environmental Quality (ODEQ) a Construction-Installation Permit for the operations and maintenance facility. Therefore, this permit should not be included in and governed by the site certificate.
National Pollutant Discharge Elimination System (NPDES) Stormwater Discharge Permit 1200-C	Oregon Department of Environmental Quality Attn: Jackie Ray Eastern Region 800 SE Emigrant, Suite 330 (541) 278-4605 Ray.Jackie@deq.state.or.us	Clean Water Act, Section 402 (33 USC § 1342); 40 CFR § 122; ORS 468 and 468B; OAR Chapter 340, Division 45 Description: NPDES permit is required for construction activities that will disturb one or more acres of land.
401 Water Quality Certification	Oregon Department of Environmental Quality Attn: Linda Hayes-Gorman Eastern Region 700 SE Emigrant, Suite 330 (541) 633-2018 Hayes-gorman.linda@deq.state.or.us	Clean Water Act, Section 401 (33 USC § 1341); OAR Chapter 340, Division 48 Description: Water quality certification is required for projects that are processed under the U.S. Army Corps of Engineers Section 404 Nationwide Permits.
Water Right Permit or Water Use Authorization	Oregon Water Resources Department Water Rights Section District 5 Attn: Greg Silbernagel 116 SE Dorion Ave Pendleton, OR 97801 (541) 278-5456 greg.m.silbernagel@wrdd.state.or.us	ORS 537; OAR 690 Divisions 310, 340, 410 and 502 Description: If water for construction is not available from permitted sources, Nolin Hills will seek temporary authorization for water use.

Table E-1. Permits or other Approvals Required for Construction and Operation of the Project

Permit	Agency	Authority/Description
Air Contaminant Discharge Permit (ACDP)	Oregon Department of Environmental Quality Attn: Linda Hayes-Gorman Eastern Region 700 SE Emigrant, Suite 330 (541) 633-2018 Hayes-gorman.linda@deq.state.or.us	OAR Chapter 340, Division 216 Description: Each mobile concrete batch plant used will require an associated Air Contaminant Discharge Permit. Depending on the anticipated volume of concrete to be made by each plant, either a Basic or General ACDP would be required.
Oversize Load Movement Permit/Load Registration	Oregon Department of Transportation Attn: Christy Jordan Motor Carriers Transportation Division 550 Capitol Street NE Salem, OR 97301 (503) 378-6192 Christy.A.Jordan@odot.state.or.us	ORS 818.030; OAR Chapter 734, Division 82 Description: Authorization for oversized loads. Movement of construction cranes and other equipment and materials may require this permit.
Access Management Permit	Oregon Department of Transportation ODOT District 12 - Pendleton 1327 SE Third Street Pendleton, OR 97801 (541) 276-1241	OAR Chapter 734, Division 51 Description: Access from Oregon state highways would require an access permit, which may be issued by the local ODOT District Offices, if required.
Permit to Occupy or Perform Operations Upon a State Highway	Oregon Department of Transportation Attn: ODOT Utility and Miscellaneous Permit Specialist ODOT District 12 - Pendleton 1327 SE Third Street Pendleton, OR 97801 (541) 276-1241	OAR Chapter 734, Division 55 (Pole Lines, Buried Cables, and Miscellaneous Operations) Description: Utility installations within the right-of-way of a state highway in Oregon require a permit issued by the ODOT.
Archaeological Excavation Permit	Oregon Parks and Recreation Department, State Historic Preservation Office John Pouley 725 Summer Street NE, Suite C Salem, OR 97301 (503) 986-0577 John.Pouley@oregon.gov	ORS Chapter 97, 358, and 390; OAR Chapter 736, Division 51 Description: Ground-disturbing activity that may affect a known or unknown archaeological resource on public or private lands requires a permit issued by the Oregon Parks and Recreation Department.

Table E-1. Permits or other Approvals Required for Construction and Operation of the Project

Permit	Agency	Authority/Description
Building Permit for construction in Umatilla County	Oregon Department Consumer and Business Services, Building Codes Division Attn: Permit Technician 800 SE Emigrant Ave, Suite 360 Pendleton, OR 97801 (541) 276-7814	OAR 734, Division 51 Description: A building permit is required prior to beginning construction of the Project. Umatilla County does not have its own building department, so building permits are issued by the Oregon State Building Codes Agency.
Local Permits		
Conditional Use Permit and Zoning Permit	Umatilla County Department of Land Use Planning Attn: Tamra Mabbott, Planning Director 216 SE 4 th Street Pendleton, OR 97801 (541) 278-6252 Tamra.Mabbott@umatillacounty.net	Umatilla County Comprehensive Plan and Development Code Description: Under ORS 469.401(3), following issuance of the Site Certificate, the County, upon the applicant's submission or the proper application and fee, shall issue the permits addressed in the Site Certificate, subject only to the conditions set forth in the Site Certificate and without hearings or other proceedings.
Installation of Utilities on County and Public Roads Permit and Construction of Road Approaches and Private Road Crossings Permit	Umatilla County Public Works Department Attn: Public Works Director 3920 Westgate Street Pendleton, OR 97801 (541) 278-5424	ORS 374.305 to 374.325 Description: A Utility Crossing permit is required any time a utility is constructed within or across a public right-of-way. Access Permit may be required if the Project access roads intersect with public roads, or if necessary upgrades to existing access roads affect a public road.
Conditional Use Permit for use of temporary concrete batch plant	Umatilla County Department of Land Use Planning Attn: Tamra Mabbott, Planning Director 216 SE 4 th Street Pendleton, OR 97801 (541) 278-6252 Tamra.Mabbott@umatillacounty.net	Umatilla County Development Code Section 152.060 Description: if the use of mobile concrete batch plants is determined to be necessary, a Conditional Use Permit would be required to establish and use temporary concrete batch plants to support construction of the Project.

Exhibit F. Property Ownership – OAR 345-020-0011(1)(f)

(f) Exhibit F. A list of the names and mailing addresses of all owners of record, as shown on the most recent property tax assessment roll, of property located within or adjacent to the site boundary as defined in OAR 345-001-0010. In addition to incorporating the list in the NOI, the applicant shall submit the list to the Department of Energy in electronic format acceptable to the Department for the production of mailing labels. Property adjacent to the site boundary means property that is:

(A) Within 100 feet of the site boundary where the site, corridor or micrositing corridor is within an urban growth boundary;

(B) Within 250 feet of the site boundary where the site, corridor or micrositing corridor is outside an urban growth boundary and not within a farm or forest zone; and

(C) Within 500 feet of the site boundary where the site, corridor or micrositing corridor is within a farm or forest zone.

Response

In accordance with OAR 345-020-0011(1)(f)(C), Table F-1 in Attachment 3 lists the names and mailing addresses of all owners of record in Umatilla County located within 500 feet of the proposed Project Site Boundary. Property ownership records were obtained from Umatilla County on August 28, 2017. The 500-foot buffer includes the turbine micrositing corridors as well as other Project components, such as collector lines, the 230-kV transmission line (within the Project Site Boundary), the collector substation(s), and roads. Figure F-1 in Attachment 3 displays the Umatilla County property tax lots in relation to the Site Boundary. An electronic list of property ownership will also be provided to ODOE in a format suitable to produce mailing labels, as requested.

Exhibit G. Facility Maps – OAR 345-020-0011(1)(g)

(g) Exhibit G. A map or maps showing:

Response

Attachment 4 contains six maps that show the required information, as follows:

(A) The proposed locations of the energy facility site, all related or supporting facility sites and all areas that might be temporarily disturbed during construction of the facility in relation to major roads, water bodies, cities and towns, important landmarks and topographic features.

Response

Figure G-1 shows the location of the Site Boundary in relation to major roads, waterbodies, cities and towns, important landmarks, and topographic features.

Figure G-2 shows the proposed locations of the micrositings corridors that the Applicant has identified in relation to major roads, waterbodies, cities and towns, important landmarks, and topographic features. Figure G-2 also identifies the Project Site Boundary and related or supporting features.

Figure G-3 details the Site Boundary in relation to nearby geographic features, and illustrates the range of elevations within the vicinity of the Project. Figures G-4 and G-5 show the hydrology within the vicinity of the Project based on National Wetlands Inventory (NWI) data (Figure G-4) and National Hydrography Dataset (NHD) data (Figure G-5).

(B) The proposed locations of the corridors the applicant has identified under subsection (d) in relation to major roads, water bodies, cities and towns, important landmarks and topographic features.

Response

The Applicant has not identified proposed alternative corridors under subsection (d). As noted above, the Project includes neither a pipeline nor transmission line that, by themselves, would be considered an energy facility under ORS 469.300(11)(a)(C). However, micrositings corridors within which project infrastructure will be located are shown in Figure G-2 in Attachment 4.

(C) The study area(s) for the proposed facility as defined in OAR 345-001-0010.

(D) The topography of the study area(s) including streams, rivers, lakes, major roads and contour lines.

Response

Figure G-6 shows the boundaries and topography of the study areas as defined by OAR 345-001-0010(59) for land use (0.5 miles), fish and wildlife habitat (0.5 miles), recreational opportunities (5 miles), threatened and endangered species (5 miles), scenic resources (10 miles), and public services (10 miles), as well as for protected areas (20 miles), as described in OAR 345-022-0040.

(E) All protected areas in the study area as defined in OAR 345-001-0010 for impacts to protected areas.

Response

Figure G-7 displays and labels all protected areas in the study area as defined by OAR 345-001-0010(59). Figure G-8 shows recreational and historic areas, and Figure G-9 shows scenic areas.

(F) The location of any potential waters of the state or waters of the United States that are on or adjacent to the site.

Response

Figures G-4 and G-5, showing NWI and NHD features respectively, display potential waters of the State or potential waters of the United States within the vicinity of the Project. A comprehensive waters and wetlands field survey, including a formal wetland delineation, was conducted in summer 2017, and detailed information regarding the location of and impacts to waters of the State or of the United States will be provided in the ASC.

(G) For energy generation facilities, the approximate locations of any other energy generation facilities that are known to the applicant to be permitted at the state or local level within the study area as defined in OAR 345-001-0010 for impacts to public services.

Response

Figure G-10 shows approximate locations of proposed and existing energy facilities known to the Applicant (EFSC 2017, Renewable Northwest Project 2017) within 10 miles of the Site Boundary, in accordance with OAR 345-001-0010(59) for impacts to public services. The only existing wind energy facility known to the Applicant within this distance is the Echo Wind Farm Project cluster,

which consists of nine separate wind energy projects (Four Corners, Oregon Trail, Ward Butte, Butter Creek, Pacific Canyon, Big Top, Wagon Trail, Sand Ranch, and Four Mile Canyon). Proposed wind energy facilities known to the Applicant with 10 miles of the Project include the High Plateau, Lower Ridge, Mariah, Mule Hollow, Pine City, and Wheatridge wind projects. Figure G-10 includes the route of the proposed Boardman to Hemmingway (B2H) 500-kV transmission line, which runs south of the Project Site Boundary, through the 10-mile Study Area.

Figure G-10 also shows natural gas, hydropower, and solar energy facilities within the study area. These include the following operational projects:

- Natural Gas Projects:
 - Hermiston Generating Plant;
 - Hermiston Power Project;
 - Perennial Wind Chaser Station; and
 - Umatilla Generating Project.
- Solar Projects:
 - Cold Springs Solar Project;
 - Pendleton Solar Project;
 - Pilot Rock Solar Project (NorWest); and
 - Pilot Rock Solar 1 Project.
- Hydroelectric Projects:
 - Byers Well Hydro;
 - Jim Boyd (Hermiston);
 - McKay Dam Hydro;
 - Stillman Well Hydro; and
 - Well 14 Hydro.

Exhibit H. Non-generating Energy Facility – OAR 345-020-0011(1)(h)

(h) Exhibit H. If the proposed facility is a non-generating energy facility for which the applicant must demonstrate need under OAR 345-023-0005, identification of the rule in Division 23 of this chapter under which the applicant intends to demonstrate need and a summary statement of the need and justification for the proposed facility.

Response

The proposed Project is not a non-generating energy facility. Therefore, this rule is not applicable.

Exhibit I. Land Use – OAR 345-020-0011(1)(i)

(i) Exhibit I. A statement indicating whether the applicant intends to satisfy the Council's land use standard, OAR 345-022-0030, by obtaining local land use approval under ORS 469.504(1)(a) or by seeking a Council determination under ORS 469.504(1)(b).

Response

The Applicant intends to satisfy EFSC's land use standard, OAR 345-022-0030, by seeking an EFSC determination under ORS 469.504(1)(b). The Applicant seeks a determination by EFSC of compliance with land use standards from Umatilla County.

Exhibit J. Environmental Impacts – OAR 345-020-0011(1)(j)

(j) Exhibit J. Identification of significant potential environmental impacts of construction and operation of the proposed facility on the study areas, including those impacts affecting air quality, surface and ground water quality and availability, wildlife and wildlife habitat, threatened and endangered plant and animal species, historic, cultural and archaeological resources, scenic and aesthetic areas, recreation, and land use.

Response

This response presents potential environmental impacts from the proposed Project's construction and operation on air quality; surface and groundwater quality and availability (including wetlands and waters of the State or of the United States); wildlife and wildlife habitat; threatened and endangered plant and animal species; historic, cultural, and archaeological resources; scenic and aesthetic areas (including protected areas); recreation; and land use. The analyses are based on the study area for each resource, as defined in OAR 345-001-0010(59) and shown in Table J-1.

Table J-1. Study Areas for Environmental Impacts

Resource	Study Area	Regulatory Requirement
Air Quality	Site Boundary	Not applicable
Surface and Groundwater Quality and Availability (includes Wetlands and Waters of the United States)	Site Boundary	Not applicable
Wildlife and Wildlife Habitat	0.5 miles from Site Boundary	OAR 345-001-0010(57)(c)
Threatened and Endangered Plant and Animal Species	5 miles from Site Boundary	OAR 345-001-0010(57)(a)
Historic, cultural and archaeological resources	Site Boundary	Not applicable
Scenic and Aesthetic Areas	10 miles from Site Boundary	OAR 345-001-0010(57)(b)
Recreation	5 miles from Site Boundary	OAR 345-001-0010(57)(d)
Protected Areas	20 miles from Site Boundary	OAR 345-001-0010(59)(e)
Land Use	0.5 miles from Site Boundary	OAR 345-001-0010(57)(c)

Air Quality

Air quality has the potential to be affected during construction, as well as during the operation and maintenance of the Project, primarily due to vehicle emissions and fugitive dust generation. The wind turbines, collector lines, substation(s), transmission lines, and associated facilities would not generate emissions of air contaminants, so they would consequently not have a negative impact on air quality. Because it is not a potential emitter of air contaminants, the Project would not require air quality permits, such as a Prevention of Significant Deterioration or Title V operating permit.

During construction, air quality impacts would be associated with gasoline and diesel engine exhaust from construction equipment and maintenance vehicles, fugitive dust resulting from vehicles driving on dirt and gravel roads, land clearing, and other construction-related activities such as rock crushing. Post-construction impacts on air quality would be limited to vehicle exhaust emissions and from dust emissions associated with vehicular traffic on dirt and gravel roads. Vehicle trips during operations would be limited to up to 20 permanent Project personnel and occasional deliveries. The Applicant will implement dust control measures during construction, which will be detailed in the ASC.

Should rock crushing be conducted as a part of Project construction, air quality permits may be needed depending on the scale of use (an ACDP would be needed if rock crushing exceeds 5,000 tons per year). The portable concrete batch plant used to provide concrete during construction will require an ACDP. Obtaining the ACDP will be the responsibility of the batch plant owner or construction contractor selected for the Project.

Because vehicle use and dust generated during construction and operations are mobile, temporary, and non-point sources, they are not subject to air quality permitting. All Project-related vehicles, workers' vehicles, and vehicles used for delivery of construction supplies and equipment, or operational supplies, are subject to Oregon Department of Transportation and United States Department of Transportation regulations for registration and emissions. Project construction equipment will be subject to the federal non-road engine standards in 40 CFR Part 89. These standards establish the maximum allowable emission rates for compression ignition non-road engines based on the model year of the engine.

Surface and Groundwater

Surface and Groundwater Quality

The Project will not discharge pollutants to surface water or groundwater. Temporary impacts due to construction stormwater runoff will be controlled in compliance with a NPDES 1200-C permit to be issued by ODEQ, which will include an Erosion and Sediment Control Plan and NPDES 1200-A permits for the concrete batch plant. During Project operation, the O&M facility will discharge domestic wastewater to an approved on-site septic system and drain field in compliance with local or state permitting requirements.

Surface and Groundwater Availability

During Project construction, approximately 10.2 million gallons of water will be required for dust suppression, road and earthwork compaction, and concrete mixing. The Applicant will confirm the estimated amount of water and will provide additional detail on water use in the ASC. Water use during construction is not expected to injure any existing water rights or exceed the amount of water available for beneficial use within the watersheds on which the Project is located.

During Project construction, water will be obtained from an existing municipal water source with valid water rights and trucked to the site. It is anticipated that water will be obtained from Pendleton or Stanfield. In the ASC, the Applicant will both confirm the anticipated amount of water required for construction and confirm with the cities of Pendleton and Stanfield that one or both can provide sufficient water to meet the Project requirements during construction.

If water is not available from these sources, the Project may apply to the Oregon Water Resources Department for a limited water use license, to allow either a new well or an existing landowner's well to be used for Project construction water. The construction contractor will identify potential water sources and obtain any relevant permits for water use. Water will either be used immediately, or stored in a tank or holding pond.

Only minimal water will be used during Project operations, primarily at the O&M building, at the level of a standard commercial office employing approximately 20 people. This water use would be for purposes associated with restrooms, sinks, showers, dishwashers, and an outside hose for miscellaneous uses. If a new well is required, it would be located near the O&M building to provide approximately 1,600 to 2,000 gallons per day for O&M building use.

Wetlands and Waters of the United States

A desktop analysis of the Project Site Boundary was performed, to identify potential impacts from construction and operation of the Project on potentially jurisdictional wetlands and waters of the State or of the United States. Desktop tools included NWI and NHD data sets. Preliminary review of NWI wetland locations and NHD stream flowlines suggests that wetlands within the Site Boundary are associated with rivers and streams. NWI and NHD locations and feature types are shown in Figures G-4 and G-5.

An on-site wetland delineation and assessment of potentially jurisdictional wetlands and waters will be conducted within the Site Boundary. These field studies will identify potential impacts from construction and operation of the Project on potentially jurisdictional wetlands and waters. The delineation and assessment will be conducted to meet the Oregon Removal/Fill Law and Section 404 of the Clean Water Act. These field studies commenced in the summer of 2017.

The ASC will contain a detailed discussion of the potential impacts to potentially jurisdictional wetlands and waters, including required mitigation (if any), and will identify necessary permits. Where impacts may occur, they will be mitigated in accordance with state and federal law.

Wildlife and Wildlife Habitat

A desktop analysis using data provided by the National Land Cover Database (Homer 2015) was conducted to identify preliminary habitat types within the Site Boundary. Most of the land within the Site Boundary is dominated by sage brush scrub/shrub (59 percent) and cultivated croplands (38 percent), with the remaining 3 percent consisting of grassland/herbaceous, developed, hay/pasture, and open water cover types. These cover types likely provide habitat for a variety of wildlife species, including raptors and predatory mammals and their prey, such as small mammals, reptiles, and amphibians.

Based on Oregon Department of Fish and Wildlife (ODFW) range maps, the Project is outside of winter ranges for big game, including mule deer, elk, and pronghorn (SWCA 2010). Therefore, impacts to big game winter ranges are not expected to occur due to the proposed Project.

The following preliminary or reconnaissance level surveys and assessments were conducted for the Project between 2010 and 2012 (Northwest Wildlife Consultants, Inc. 2012):

- Golden and bald eagle records and database review;
- Avian use surveys;
- Aerial raptor nest survey;
- Eagle nest survey;
- Eagle nest monitoring;
- Site characterization study; and
- Habitat mapping and characterization.

The following surveys and assessments are in progress:

- Avian use surveys;
- Eagle nest surveys within a 10-mile buffer of the Site Boundary;
- Eagle use surveys;
- Bat acoustic monitoring;
- Washington ground squirrel surveys;
- Rare plant surveys; and
- Wetland surveys.

Washington ground squirrel, rare plant, and wetland surveys focused on the microsite corridors surrounding the proposed locations of Project components such as wind turbines, roads, and supporting facilities (for example, the proposed sites of the O&M building, collector substation(s), transmission line corridor, and temporary staging areas).

Data collected during these surveys may identify or confirm the presence of sensitive plant and wildlife species. This information will be used to analyze potential impacts to wildlife and wildlife habitat during construction and operation, as well as in the micro-siting of Project components to minimize impacts. The results of these surveys, including a site-specific habitat analysis and measures for avoiding, minimizing, and mitigating impacts, will be presented in the ASC.

Sensitive, Threatened, and Endangered Species

Methods

Tetra Tech queried USFWS, ODFW, and Oregon Department of Agriculture (ODA) online species lists for Umatilla County to determine if endangered, threatened, proposed, candidate, or special status wildlife and plant species were likely to occur in or near the Site Boundary (Attachment 5; ODA 2017, ODFW 2016, ODFW 2017, ORBIC 2016, USFWS 2017). In June 2017, Tetra Tech requested from the Oregon Biodiversity Information Center (ORBIC) a list of documented occurrences of rare, threatened, and endangered plant and wildlife species in the vicinity of the Project. ORBIC provided the list to Tetra Tech on June 16, 2017 (ORBIC 2017). Attachment 5 contains the response letters from ORBIC. As noted in the letter, the records are confidential and not to be distributed. The Applicant will provide the records to ODFW and ODOE upon request, with the permission of ORBIC.

Results

The USFWS species list for Umatilla County was reviewed for species with potential to occur in the area and to aid in compiling a target wildlife list for surveys. Attachment 5 contains the species' federal status and status definitions.

The ORBIC data request found a total of 60 records of state and federal, Oregon sensitive, federal species of concern, and other special-status species with potential to occur and known documented occurrences within 10 miles of the Site Boundary, as of June 16, 2017. A summary of documented species record results follows:

- Mammal records provided by ORBIC consisted only of the Washington ground squirrel (*Urocitellus washingtoni*; federal species of concern, state endangered, 10 records within 10 miles, including two records within the Site Boundary).
- Avian records provided by ORBIC consisted of the golden eagle (*Aquila chrysaetos*; BCC; five nest records), Swainson's hawk (*Buteo swainsoni*; state sensitive; one nest record); long-billed curlew (*Numenius americanus*; BCC, state sensitive-critical; one record), bald eagle (*Haliaeetus leucocephalus*; BCC, state sensitive; one nest record), grasshopper sparrow (*Ammodramus savannarum*; state sensitive; two records), and tri-colored blackbird (*Agelaius tricolor*; BCC, federal species of concern; one record). None of these records were within the Site Boundary.

- Reptile and amphibian records provided by ORBIC consisted only of the painted turtle (*Chrysemys picta*; state sensitive-critical; two records outside of the Site Boundary).
- Mollusk species occurrences were of the California floater (*Anodonta californiensis*; federal species of concern), Oregon floater (*Anodonta oregonensis*; tracked by ORBIC but with no special status), and western ridged mussel (*Gonidea angulata*; tracked by ORBIC but with no special status). One occurrence of the latter species was within the section of the Umatilla River just north of the Site Boundary.
- Fish species occurrences were of the margined sculpin (*Cottus marginatus*; federal species of concern), steelhead (*Oncorhynchus mykiss*; Middle Columbia River Evolutionarily Significant Unit, summer run; federal threatened species; state sensitive-critical), and bull trout (*Salvelinus confluentus*; Umatilla Species Management Unit; federal threatened species; state sensitive-critical). Bull trout and steelhead occurrence records included the section of the Umatilla River that lies just north of the Site Boundary.
- Plant species occurrences were of the salt heliotrope (*Heliotropium curassavicum*; tracked by ORBIC but with no special status), retrorse sedge (*Carex retrorsa*; tracked by ORBIC but with no special status), Laurence's milk-vetch (*Astragalus collinus* var. *laurentii*; state threatened; federal species of concern), beaked cryptantha (*Cryptantha rostellata*; tracked by ORBIC but with no special status), and stalked-pod milkvetch (*Astragalus sclerocarpus*; tracked by ORBIC but with no special status). Of these species, only the Laurence's milkvetch had occurrences (two) within the Site Boundary.

Field surveys conducted to date have observed sensitive wildlife species using the area within the Site Boundary. These include the Washington ground squirrel, long-billed curlew, grasshopper sparrow, loggerhead shrike, golden eagle, ferruginous hawk, and Swainson's hawk. In addition to wildlife, Laurence's milkvetch was documented within the Site Boundary, and sessile mousetail (*Myosurus sessilis*), a federal plant species of concern, was documented in vernal pools within the Site Boundary.

Historic, Cultural, and Archaeological Resources

The Applicant will complete a cultural resources field inventory and submit the results of this study with the ASC. This inventory will evaluate the presence or absence of historic properties and other cultural resources that may not meet the threshold of significance necessary to qualify them as historic properties. The study area for this field inventory will consist of microsites centered on the alignments of proposed wind turbines, collector lines, access roads, the O&M building, collector substation(s), additional construction areas, and the 230-kV overhead transmission line route (see Figure G-6). The width of the study corridor was established to provide reasonable opportunity for microsites of Project components.

The study methodology will follow applicable Oregon State Historic Preservation Office (SHPO) regulations, and will be consistent with U.S. Secretary of Interior standards for cultural resource

surveys and documentation under Section 106 of the National Historic Preservation Act (Public Law 89-665).

Any archaeological or historic sites discovered during the field investigation will be officially recorded and filed with SHPO. If an archaeological or historic site is identified, the Applicant will undertake the appropriate avoidance or mitigation actions to avoid significant impacts.

Scenic and Aesthetic Areas

The study area for scenic and aesthetic resources consists of the area within the Site Boundary plus a 10-mile buffer around the Site Boundary (Figure G-8), in accordance with OAR 345-001-0010(59)(b). Pursuant to OAR 345-021-0010(1)(r) and 345-022-0080(1), scenic resources to be considered are those “identified as significant or important in local land use plans, tribal land management plans and federal land management plans for any lands located within the analysis area....”

Local land use plans to be considered include Umatilla County Comprehensive Plan and the comprehensive plans for the cities of Echo, Hermiston, Pendleton, Pilot Rock, and Stanfield. Requirements of the Umatilla County Comprehensive Plan are described below. The comprehensive plans for the cities of Echo, Hermiston, Pendleton, Pilot Rock, and Stanfield will be reviewed as part of the ASC. There are no tribal management plans for lands within the study area.

The Umatilla County Comprehensive Plan, as amended, (Umatilla County 2017) was reviewed for designated scenic resources or sites. In Chapter 8, Open Space, Scenic and Historic Areas, and Natural Resources, there is a discussion of Outstanding Scenic Views and Sites which states:

There are areas and views which [sic] are commonly recognized as striking in their effect on those who experience them. Geological features, green vegetation, and water are major scenic features; human works and dry, shrubsteppe [sic] landscape are other attractions. So that areas do not lose their eye-catching attributes, plans attempt to identify “commonly recognized” scenic features, and suggest uses for these areas that minimize conflicts with the valuable features (Umatilla County 2017, page 8-1).

Goal 20 of Chapter 8 states, “Umatilla County has a number of outstanding scenic views and pleasant vistas” (Umatilla County 2017, page 8-10). This goal is accompanied by a list of five policies related to protection of scenic resources. The only area specified in these policies as a significant scenic area is the Wallula Gap, located in northern Umatilla County adjacent to the Columbia River, approximately 16 to 20 miles north of the Site Boundary, and it therefore not within the study area. The noted geologic features, vegetation, water features, human works, and shrub-steppe landscape are not mapped or otherwise sufficiently specific to be considered as important scenic resources for the purpose of this analysis.

The National Park Service (NPS) has management responsibilities for the Oregon National Historic Trail, which passes through the study area approximately 0.5 miles north of the Site Boundary. The combined NPS Management and Use Plan and Final EIS (NPS 1999) for the Oregon National Historic

Trail (and three other designated trails) notes that viewsheds contribute in significant ways to the experience of visitors, and that viewshed protection is controversial and needs to be done consistently. In describing significant resources associated with the historic trails, the plan focuses on the provisions in the National Trail System Act for identifying trail sites and segments of potential high visual significance. Criteria for identifying such sites and segments are specified in the National Trail System Act, and include historic significance, the presence of visible historic remnants, scenic quality, and relative freedom from intrusion.

Appendix G of the NPS management plan does not identify any high-potential trail segments within the study area (NPS 1999). However, Appendix H of the NPS management plan identifies two high-potential trail sites within the study area: Echo Complex and Echo Meadows (NPS 1999). The Echo Complex includes the existing interpretive center at Fort Henrietta, as well as other wayside exhibits that are located within the city of Echo. The Echo Meadows site is a split in the trail, which contains an interpretive site and handicapped accessible trail to existing ruts. These sites do not specifically address scenic resources. While maintaining scenic integrity of the viewsheds surrounding Oregon Trail resources is clearly an important management objective, the language of the NPS management plan does not identify any specific scenic resources as significant or important (NPS 1999).

No significant or important scenic resources, as defined in OAR 345-021-0010(1)(r) and 345-022-0080(1), have been identified within the study area. Potential impacts to identified scenic resources will likely be negligible because the Project will be screened by vegetation and topography, will be near existing agricultural development (e.g., irrigation systems), and will be viewed from long distances. The visual assessment that will be included in the ASC will include proposed mitigation measures for any significant potential impacts identified through the ASC process.

Recreation

The study area for recreational opportunities consists of the Site Boundary plus a surrounding 5-mile buffer (Figure G-9), in accordance with OAR 345-001-0010(59)(d). In general, recreational activities in the study area consist of hiking, fishing, boating, camping, bicycling, photography, game and bird hunting, and sightseeing. These activities occur in numerous locations outside the study area, and therefore the recreational opportunities within the study area do not rise to the level of uniqueness or irreplaceability that is required by OAR 345-022-0100(1).

Some specific recreational opportunities within the study area include the Echo Hills Golf Club 9-hole golf course, Fort Henrietta RV Park and Campground, the Sno Road Winery and tasting room, and the small Oregon Trail Arboretum, all of which are in or near the City of Echo. Exhibit T of the ASC will include more detailed analysis of the potential impacts to these recreational resources.

Protected Areas

The study area for protected areas is the Site Boundary plus a surrounding 20-mile buffer (Figure G-7), in accordance with OAR 345-001-0010(59)(e). Protected areas are defined and listed in OAR

345-022-0040. Table J-2 lists all protected areas within the study area, which are shown on Figure G-7. No protected areas are located within the Site Boundary, and none would be directly impacted by the construction or operation of the Project.

Table J-2. Protected Areas¹ within the Study Area

Type	Area Name	Distance to Site Boundary (Miles)	Direction from Project
(a) National Parks	None	NA	NA
(b) National Monuments	None	NA	NA
(c) Wilderness Areas	None	NA	NA
(d) National and State Wildlife Refuges	Cold Springs National Wildlife Refuge	10.3	North
	McNary National Wildlife Refuge	15.8	North
	McKay National Wildlife Refuge	9.5	East
	Columbia Basin-Irrigon ODFW Wildlife Refuge	17.7	Northwest
	Columbia Basin-Power City ODFW Wildlife Refuge	15.0	Northwest
(e) National Coordination Areas	None	NA	NA
(f) Fish Hatcheries	Three Mile Adult Hold Hatchery	14.9	Northwest
(g) National Recreation and Scenic Areas	None	NA	NA
(h) State Parks and Waysides	Hat Rock State Park	14.9	North
	Battle Mountain Forest State Scenic Corridor	16.2	South
(i) State Natural Heritage Areas	None	NA	NA
(j) State Estuarine Sanctuaries	None	NA	NA
(k) Scenic Waterways/Wild and Scenic Rivers	None	NA	NA
(l) Experimental Areas (Rangeland Resources Program)	None	NA	NA
(m) Agricultural Experimental Stations	Hermiston Agricultural Research Center	9.9	Northwest
(n) Research Forests	None	NA	NA

Table J-2. Protected Areas¹ within the Study Area

Type	Area Name	Distance to Site Boundary (Miles)	Direction from Project
(o) BLM Areas of Critical Environmental Concern (ACEC)	Oregon Trail ACEC	5.5	Northwest
(o) BLM Research Natural Areas and Outstanding Natural Areas	None	NA	NA
(p) State Wildlife Areas and Management Areas (per OAR 635, Div. 8)	Columbia Basin-Power City Wildlife Area	15.0	Northwest
	Columbia-Basin Irrigon Wildlife Area	17.7	Northwest
¹ Protected Areas are defined and listed in OAR 345-022-0040			

Land Use

The study area for land use consists of the area within the Site Boundary plus a surrounding 0.5-mile buffer, in accordance with OAR 345-001-0010(59) (c). All land within the study area is zoned for Exclusive Farm Use by Umatilla County. Some conversion of agricultural land will occur; these impacts will be fully evaluated in the ASC.

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- USFWS (U.S. Fish and Wildlife Service). 2017. Federally listed, proposed, candidate species and species of concern under the jurisdiction of the fish and wildlife service which may occur within Umatilla County, Oregon. Available online at: <https://www.fws.gov/oregonfwo/promo.cfm?id=177175701> (Accessed June 2017)

Exhibit K. Community Service Impacts – OAR 345-020-0011(1)(k)

(k) Exhibit K. Information about significant potential adverse impacts of construction and operation of the proposed facility on the ability of communities in the study area to provide the services listed in OAR 345-022-0110.

Response

Pursuant to OAR 345-001-0010(57)(b), the study area for impacts to the public services listed in OAR 345-022-0110 includes the Site Boundary plus a surrounding 10-mile buffer. Public services that will be evaluated for potential impacts from the construction and operation of the Project are listed in OAR 345-020-0011(1)(k) and outlined below:

- Sewers and sewage treatment;
- Water;
- Stormwater drainage;
- Solid waste management;
- Housing;
- Traffic safety;
- Police and fire protection;
- Health care; and
- Schools.

Sewers and Sewage Treatment

During construction, sanitary waste will be collected on-site in portable toilets that will be provided and maintained by a licensed subcontractor. During operation, sanitary waste will be limited to domestic wastewater from the Project's O&M building, which will be discharged to a licensed on-site septic system. The Applicant does not anticipate requiring connection to sewers or sewage treatment facilities. Therefore, significant adverse impacts to community sewer systems are not anticipated.

Water

Project construction will require approximately 10.2 million gallons of water for several activities, including concrete mixing for wind tower foundations, road construction, underground collection

line installation, and dust control. Actual daily water use will vary depending on weather and the final construction schedule (e.g., the need for dust control will be far greater in dry, windy summer conditions than at other times of year). Water use during operation of the Project would be limited to small amounts used at the O&M building for sanitation and human consumption and is anticipated be approximately 1,600 to 2,000 gallons per day.

The Applicant will confirm the anticipated amount of water required for construction and operation in the ASC. Additionally, the Applicant will confirm that the identified source can meet the Project's water requirements during construction, and a detailed analysis of water use requirements for accessing a private or municipal source will be included. If the water source is found to be insufficient, an alternative off-site source will be identified, or water will be obtained from a new on-site well to be permitted under a limited water use license.

The Applicant expects to rely on an exempt well allowed under ORS 537.545 to provide water to the O&M building. This Project will use less than 5,000 gallons per day, which would not require the Applicant to obtain a new water right.

During Project construction and operation, water will only be obtained from permitted sources with adequate water rights. Therefore, public water systems will not be adversely affected by construction or operation of the Project.

Stormwater Drainage

The proposed Project will have no significant adverse impact on stormwater drainage services or infrastructure. In the rural area in which the Project is proposed, developed stormwater infrastructure is limited to minimal facilities associated with public roads maintained by Umatilla County. There are no communities located within the Site Boundary; therefore, the Project will have no impact on stormwater drainage services provided in urban areas.

Construction of the proposed Project will add new impervious surfaces to a small fraction of the total Project acreage. Stormwater runoff generated in areas disturbed by Project construction will be managed on-site, typically using retention and infiltration systems that will be described in the Project NPDES 1200-C construction permit and accompanying Erosion and Sediment Control Plan, as well as the NPDES 1200-A permits for a concrete batch plant. Most of the area within the Site Boundary is vegetated, which will serve as a buffer to promote infiltration and minimize erosion. No impact on stormwater drainage is expected from the Project.

Stormwater management infrastructure put in place during construction will be left in place as needed, to continue functioning throughout the life of the Project where impermeable or semi-impermeable surfaces (e.g., access roads) remain to support O&M activities. Such features may include roadside ditches, infiltration swales, or retention basins. These facilities will be located on private land, and will not affect the provision of stormwater management services by any public agency.

Solid Waste Management

Umatilla County provides solid waste disposal and recycling services through franchise agreements with various private providers. Solid waste disposal for the Project during construction and operations will be provided through a private contract with a local commercial hauler (or haulers), and is not anticipated to cause adverse impacts to services already being provided in the county or nearby communities. The public landfill closest to the Project is the Finley Buttes Regional Landfill, located near Boardman, Oregon.

Tower, collector line, and collector substation(s) construction will generate a variety of solid wastes, including concrete, scrap metal, wood, and plastics (the latter two used to secure and protect components during shipping). Excess soil from road construction and foundation excavation will be spread on site to the extent practicable, or disposed of in accordance with applicable regulations.

Housing

Construction

An average of approximately 250 employees will be present on-site during construction. This number will fluctuate during periods where multiple teams of contractors perform their work simultaneously. The Applicant estimates that a maximum of 520 employees will be on-site at one time, when multiple disciplines of contractors complete their work simultaneously during periods of the highest activity.

Construction workers will include a combination of locally hired workers for road and turbine pad construction, and specialized workers for certain types of specialized construction. Some workers are expected to come from outside of the study area and will require temporary housing. The Applicant assumes that 25 to 50 percent of construction workers will be hired locally and the remainder from outside the study area. The percentage of the construction workforce that is hired locally will depend on the availability of workers with appropriate skills. The size of the skilled local workforce is continually growing as more wind farms are built in eastern Oregon, so the percentage of local construction workers may be higher than estimated. Additional workers may commute daily from communities outside the study area (e.g., Stanfield, Boardman, Hermiston, Irrigon, Pendleton, Pilot Rock), which would lessen impacts to housing associated with the in-migration of outside workers.

Construction workers hired from areas outside a commutable distance may choose to stay in local motels or other rental units for the duration of their stay, which could have potential impacts on housing if there is an inadequate supply of housing in relation to the demand from the new temporary and permanent residents associated with the Project. Typical housing options for temporary workers include motels, hotels, apartments, short-term rental homes, and campgrounds or other areas where workers can park trailers or other mobile housing. Availability of temporary housing is best in larger communities within a commutable distance of the construction site, where

hotels, motels, and trailer parking are available. Communities that could potentially house temporary workers include Pendleton, Umatilla, and Boardman. Because workers can spread out to many communities within a commutable distance, the impact to housing in the immediate vicinity of the Project associated with the in-migration of outside workers would be lessened. Workers from outside the area would also benefit the communities and local businesses by renting rooms, eating at local restaurants, and purchasing goods and services from local stores.

Operations

An estimated 20 operational personnel, including contract workers, will be permanently employed at the Project at its full 350-MW capacity. Where possible, the O&M staff will be hired locally, except for those positions that require previous experience at other wind generation facilities. Some outside contractors may also be required from time to time for specialized maintenance tasks, such as turbine inspections, electrical system maintenance, or the repair of nacelles or meteorological equipment. The Applicant assumes that the Project will be in operation for at least 30 years. No significant adverse impacts to housing in the area are anticipated because of housing operational personnel.

Traffic Safety

Primary transportation corridors are assumed to carry most construction-related heavy-duty and light-duty delivery vehicles, as well as some workforce traffic. These corridors include I-84, US Highway 97, and Oregon Highway 218.

During construction, many trucks may be accessing the site on these transportation corridors. Heavy-duty trucks will carry turbine components as well as gravel and other materials required to improve or construct access roads from existing roadways. Heavy-duty trucks will also provide concrete for the turbine pads and footings. Lighter-duty trucks will be required to deliver water, electrical equipment, and other materials. Construction-related traffic impacts are not expected to result in any significant adverse impacts to traffic safety. Any improvements to county or state roads will be restricted to areas within the respective rights-of-way and subject to approval by the applicable agency.

During operation, significant traffic impacts from the Project are not anticipated. The Applicant intends to hire O&M personnel locally, where feasible. Employees will travel to work in their personal vehicles. Specialized personnel responsible for inspections of the turbine strings may be hired from outside the area, and may travel in light-duty trucks. Delivery trucks may also access the Project during operation on an infrequent basis. A detailed analysis of traffic generation resulting from both construction and operation of the Project will be included in the ASC.

The construction of the proposed Project will result in a temporary increase in local traffic, including large trucks and construction equipment as well as construction workers' vehicles. The primary transportation corridor will be I-84, and it is assumed it will carry, along with a few major county roads, most construction-related truck traffic and workforce traffic. Major county roads that

will convey significant amounts of construction traffic include: Thielsen Road and Rieth Road. Some local county roads and private roads may also see increases in traffic, including Speare Canyon Road, Coombs Canyon Road, Alkali Canyon Road, and Mud Springs Canyon Road. Additional private access roads will be developed for each of the proposed wind turbines and associated facilities. A traffic management plan will be developed in cooperation with Umatilla County, and with nearby cities if necessary, to minimize impacts to traffic safety. In addition, the Applicant will enter into road use agreements with Umatilla County to ensure that public roads impacted by construction will be left in “as good or better” condition than that which existed prior to the start of construction.

Police and Fire Protection

Police service in the Project’s vicinity is provided primarily by county police departments. Some of the cities in the study area have a city police department that operates within their respective cities, but would not cover the Site Boundary. As necessary, the Applicant will seek assistance from the nearest Umatilla County Sheriff’s Office, located in Pendleton, Oregon. Additional law enforcement service is available through the Oregon State Police, with offices in Hermiston and Pendleton. The small number of temporary construction workers and additional permanent, resident employees is not anticipated to place significant new demands on law enforcement agencies in the area.

The Applicant will work with the Echo Rural Protection Fire District and Pilot Rock Rural Fire Protection District to determine which entity will provide fire protection within the Site Boundary, and to address any potential needs for a construction phase fire prevention and management plan. The Applicant will also develop First Aid and Emergency Response procedures for the construction and operation phases for the Project. Development of these plans will involve consultation with local emergency response agencies. The Applicant will notify the fire protection districts of construction plans, identify the location of and access to Project structures, and assist (if able) in the case of fire in or around the Project. The Project will be equipped with fire protection equipment in accordance with the Oregon Fire Code. Fire danger during construction will be reduced through implementation of safe working practices, such as maintaining adequate firefighting equipment and water supplies on hand during operations that carry a high fire risk, conducting welding within a cleared or graveled area, and preventing parking of vehicles in areas with high, dry grass. Wind turbines contain several safety features designed to provide increased fire protection; for example, fully independent braking systems and emergency shutoff devices. Given the inherent fire-safety features of Project components and the relatively small number of new temporary and permanent residents, significant new demands on the fire protection forces that serve the area are not anticipated.

Health Care

The nearest hospital to the eastern portion of the Site Boundary is St. Anthony Hospital, located in Pendleton, Oregon. The nearest hospital to the western portion of the Site Boundary is the Good Shepherd Medical Center, located in Hermiston, Oregon. Ambulance service in the area is provided by the Pendleton Fire Department and Ambulance Service and the Hermiston Fire and Emergency

Services. Some of the nearby fire districts also have first response vehicles, with equipment and crew trained to stabilize a patient until the arrival of an ambulance for transport. No ambulances are available from the southern portion of the Site Boundary. As per the Occupational Safety and Health Administration's regulations for sites with greater than 100 workers on-site, the Applicant anticipates the need to have a safety manager on site for the Project. Fulfilling this requirement will be the responsibility of the Project construction contractor hired by the Applicant. Having site-specific procedures and a dedicated individual on-site to deal with health and safety matters ensures appropriate oversight and timely response to potential incidents that may occur during Project construction.

The small number of new temporary and permanent residents is not expected to place significant new demands on routine health care services. However, impacts on health care could occur if Project construction activities were to result in an increase in the use of emergency health care services exceeding the capacity of local providers. Impacts on local health care services during both construction and operation will be minimized by careful management of site health and safety risks.

Schools

The Site Boundary falls within three school districts: Echo, Pilot Rock, and Pendleton. No significant adverse impacts to schools are anticipated during construction and operation of the Project. Construction will be temporary and short-term, and much of the peak work period (March through October) will occur during the summer months when school is not in session. The trend in construction projects of this nature is that only a small percentage of workers hired from outside the area bring their families and school-age children for a short-term relocation, so the number of additional students would be minimal. The number of permanent new resident employees would also be small, and impacts on school services will depend on the housing choices of new residents with children, which is unknown. Given the dispersed area in which new residents are likely to settle, and the small number of new school children expected, it is unlikely that any one school will receive more new students than it can accommodate. Thus, no significant adverse impacts on the ability of communities to provide school services are anticipated because of Project operations.

Exhibit L. Water Sources and Use – OAR 345-020-0011(1)(I)

(I) Exhibit L. Information about anticipated water use during construction and operation of the proposed facility, including:

(A) A description of each source of water and the applicant's estimate of the amount of water the facility will need from each source.

Response

Construction

During construction, the Project will require an anticipated 10.2 million gallons of water. This water will be used in construction-related activities such as road construction, collection line installation, and concrete mixing, among others. Water will also be used for dust control on dirt roads, turbine pads, and staging areas. The Applicant intends to use water trucks for the delivery of water from nearby locations with existing water rights, such as the towns of Pendleton and Stanfield. If the cities are not sufficient sources of water, the Applicant will seek to obtain water from other existing sources, or water will be obtained from a new water well under a limited-use license. The ASC will contain a detailed analysis of water requirements for Project construction.

Operation

During operation, the Project will require water for use in the O&M building. Like a commercial office employing approximately 20 people, this facility will require less than 5,000 gallons per day (anticipated to require 1,600 to 2,000 gallons per day), and will not require a new water right to be obtained under ORS 537.545. If the O&M building requires more than 5,000 gallons per day, the Applicant will obtain a new water right through a limited use license.

(B) If a new water right is required, the approximate location of the points of diversion and the estimated quantity of water to be taken at each point.

Response

At this time, it is not anticipated that the Project will require new water rights.

(C) For operation, the source of cooling water and the estimated consumptive use of cooling water, based on annual average conditions.

Response

The Project is a wind energy facility. No cooling water is required for operation. Therefore, these rules are not applicable.

Exhibit M. Carbon Dioxide Emissions – OAR 345-020-0011(1)(m)

(m) Exhibit M. If the proposed facility would emit carbon dioxide, an estimate of the gross rate of carbon dioxide emissions, a table listing all the factors that form the basis for calculating the estimate, and a statement of the means by which the applicant intends to comply with the applicable carbon dioxide emissions standard under OAR 345-024-560, 345-024-600, or 345-024-630.

Response

The proposed Project will not emit carbon dioxide. Therefore, these rules are not applicable.

Exhibit N. Evaluation of Statutes, Rules, and Ordinances – OAR 345-020- 0011(1)(n)

(n) Exhibit N. Identification, by legal citation, of all state statutes and administrative rules and local government ordinances containing standards or criteria that the proposed facility must meet for the Council to issue a site certificate, other than statutes, rules and ordinances identified in Exhibit E, and identification of the agencies administering those statutes, administrative rules and ordinances. The applicant shall analyze and describe any problems the applicant foresees in satisfying the requirements of any such statute, rule or ordinance.

Response

Table N-1 identifies state statutes, administrative rules, and local government ordinances containing standards or criteria that the Applicant must meet for EFSC to issue a Site Certificate, beyond the statutes, rules and ordinances identified in Exhibit E. The Applicant does not anticipate difficulty in meeting specific requirements.

Table N-1. Statutes, Rules, and Ordinances Containing Relevant Standards or Criteria

Department	Legal Citation	Agency Address
Oregon Department of Agriculture	Plant Conservation Biology Program—ORS 564; OAR Chapter 603, Division 73	Oregon Department of Agriculture 635 Capitol Street, N.E. Salem, OR 97301-2532 (503) 986-4550
ODEQ—Water Quality	ORS 468 and 468B; OAR Chapter 340, Divisions 14, 41, 45, 52, and 55	Oregon Department of Environmental Quality 475 NE Bellevue Dr., Suite 110 Bend, OR 97701 (541) 388-6146
ODEQ—Noise	ORS 467; OAR Chapter 340, Division 35	Oregon Department of Environmental Quality 811 SW Sixth Avenue Portland, OR 97204-1390 (503) 229-5696
ODEQ—Hazardous Waste Management	ORS 465 and 466; OAR Chapter 340, Divisions 100-113	Oregon Department of Environmental Quality 811 SW Sixth Avenue Portland, OR 97204-1390 (503) 229-5696

Table N-1. Statutes, Rules, and Ordinances Containing Relevant Standards or Criteria

Department	Legal Citation	Agency Address
ODEQ—Solid Waste	ORS 459; OAR Chapter 340, Division 93	Oregon Department of Environmental Quality 811 SW Sixth Avenue Portland, OR 97204-1390 (503) 229-5696
ODFW—Habitat Conservation Division	ORS 496 and 506; OAR Chapter 635, Divisions 100 and 415	Oregon Department of Fish and Wildlife 3406 Cherry Avenue N.E. Salem, OR 97303-4924 (503) 947-6000
ORBIC	ORS 564.105; OAR 603-73-070 and 345-022-0070	Oregon Biodiversity Information Center Oregon State University Institute for Natural Resources University Center Building, Suite 335 527 SW Hall Street Portland, OR 97201
Oregon Department of Geology and Mineral Industries	OAR Chapter 632	Oregon Department of Geology and Mineral Industries 800 NE Oregon Street, Suite 965 Portland, OR 97232 (971) 673-1555
Oregon Parks and Recreation Department, SHPO —Archaeological	Native American Graves and Protected Objects—ORS 97.740-97.760 Archaeological Objects and Sites—ORS 358.90-358.955 Permit and Conditions for Excavation or Removal of Archaeological or Historical Materials on Private Lands (OAR 736-051-0090)	State Historic Preservation Office 725 Summer St. NE, Suite C Salem, OR 97301 (503) 986-0671
Oregon Office of State Fire Marshal— Emergency Planning and Community Right to Know Act	ORS 453; OAR Chapter 837, Divisions 85 and 95	Oregon Office of State Fire Marshal 4760 Portland Rd NE Salem, OR 97305-1760 (503) 378-3473
Umatilla County Department of Land Use Planning — Land Use ¹	Umatilla County Development Code Chapter 152	Umatilla County Department of Land Use Planning Tamra Mabbott 216 SE 4 th Street Pendleton, OR 97801 (541) 278-6252
1. As stated in Exhibit I: The Applicant intends to satisfy EFSC's land use standard, OAR 345-022-0030, by seeking an EFSC determination under ORS 469.504(1)(b). The Applicant seeks a determination by EFSC of compliance with land use standards from Umatilla County.		

Exhibit O. Schedule for Application for Site Certificate – OAR 345-020-0011(1)(o)

(o) Exhibit O. A schedule stating when the applicant expects to submit a preliminary application for a site certificate.

Response

The Applicant intends to submit the NOI and Preliminary ASC according to the schedule shown in Table O-1.

Table O-1. Proposed Schedule for Application for Site Certificate Submittal

Activity	Anticipated Date
Applicant submits the NOI to EFSC	September 2017
EFSC reviews the NOI, distributes public notice, conducts public information meeting, facilitates comment period, and issues Project Order	September – November 2017
Applicant submits Preliminary ASC to EFSC	February 2018

Exhibit P. Evidence of Consultation with State Commission on Indian Services – OAR 345-020-0011(1)(p)

(p) Exhibit P. Evidence of consultation with the Legislative Commission on Indian Services to identify each appropriate tribe to consult with regarding the proposed facility's possible effects on Indian historic and cultural resources.

Response

Tetra Tech contacted Karen Quigley, Executive Director of the Oregon Legislative Commission on Indian Services, on June 12, 2017. Ms. Quigley identified the Confederated Tribes of Umatilla and the Confederated Tribes of Warm Springs, as well as two out-of-state Tribes that have interests along the Columbia River—the Nez Perce Tribe (Idaho) and the Confederated Tribes and Bands of the Yakama Nation (Washington)—as the Tribal governments to be consulted for archaeological work at the Project. The letter of introduction and Ms. Quigley's response are included in Attachment 6.

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ATTACHMENT 1. ARTICLES OF INCORPORATION AND AUTHORIZATION

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Delaware

PAGE 1

The First State


I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF FORMATION OF "NOLIN HILLS WIND, LLC", FILED IN THIS OFFICE ON THE EIGHTH DAY OF OCTOBER, A.D. 2014, AT 1:49 O'CLOCK P.M.



5617703 8100

141270978

You may verify this certificate online
at corp.delaware.gov/authver.shtml


Jeffrey W. Bullock, Secretary of State
AUTHENTICATION: 1766134

DATE: 10-09-14

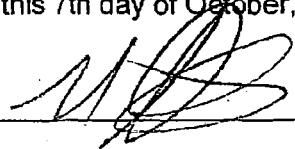
CERTIFICATE OF FORMATION

OF

Nolin Hills Wind, LLC

1. The name of the limited liability company is Nolin Hills Wind, LLC.
2. The address of its registered office in the State of Delaware is:
Corporation Trust Center, 1209 Orange Street, in the City of Wilmington,
Delaware 19801. The name of its registered agent at such address is The
Corporation Trust Company.

IN WITNESS WHEREOF, the undersigned have executed this Certificate
of Formation of Nolin Hills Wind, LLC this 7th day of October, 2014.



Michael Arndt
Chief Operating Officer

**Application for Authority to Transact Business - Foreign Limited Liability Company**Secretary of State - Corporation Division - 255 Capitol St. NE, Suite 151 - Salem, OR 97310-1327 - <http://www.FilingInOregon.com> - Phone: (503) 886-2200**FILED****OCT 27 2014****OREGON
SECRETARY OF STATE**

REGISTRY NUMBER:

1057201-97

For office use only

In accordance with Oregon Revised Statute 182.410-192.490, the information on this application is public record.
We must release this information to all parties upon request and it will be posted on our website.

For office use only

Please Type or Print Legibly in Black Ink. Attach Additional Sheet if Necessary.

1) NAME: NOLIN HILLS WIND, LLC**NOTE:** (Must contain the words "Limited Liability Company" or the abbreviations "LLC" or "L.L.C.") Must be identical to the name of record in home jurisdiction.**2) REGISTRY NUMBER IN HOME JURISDICTION****OR:** CERTIFICATE OF EXISTENCE ☒ (ATTACHED)

(Please provide a web-verifiable registry number from the entity's home jurisdiction. Certain states, such as Delaware and New Jersey, do not provide status information online. Entities from such places must instead attach an official certificate of existence, current within 60 days of delivery to this office.)

7) REGISTERED AGENT'S PUBLICLY AVAILABLE ADDRESS:

(Must be an Oregon Street Address, which is identical to the registered agent's business office.)

388 State Street, Ste. 420Salem, OR 97301**3) DATE OF ORGANIZATION: DURATION, IF NOT PERPETUAL:**OCTOBER 9, 2014**8) ADDRESS OF PRINCIPAL OFFICE OF THE BUSINESS:**421 SW SIXTH AVENUE, SUITE 1000PORTLAND, OR 97204**4) STATE OR COUNTRY OF ORGANIZATION:**DE**9) ADDRESS WHERE THE DIVISION MAY MAIL NOTICES:**421 SW SIXTH AVENUE, SUITE 1000PORTLAND, OR 97204**5) THIS FOREIGN LIMITED LIABILITY COMPANY SATISFIES THE REQUIREMENTS OF ORS 63.714(3).****6) NAME OF OREGON REGISTERED AGENT:**C T Corporation System**10) HOW WILL THIS LIMITED LIABILITY COMPANY BE MANAGED?**☐ This LLC will be member-managed by one or more members.☒ This LLC will be manager-managed by one or more managers.**11) EXECUTION: (At least one member or manager must sign.)**

By my signature, I declare as an authorized authority, that this filing has been examined by me and is, to the best of my knowledge and belief, true, correct, and complete. Making false statements in this document is against the law and may be penalized by fines, imprisonment or both.

Signature:

Printed Name:

MICHAEL ARNDT

Title:

COO OF ELEMENT
POWER US, LLC
ITS MANAGER**CONTACT NAME: (To resolve questions with this filing.)**PAM MAHON**PHONE NUMBER: (Include area code.)**503.416.0822**FEES**

Required Processing Fee \$275

Processing Fees are nonrefundable. Please make check payable to "Corporation Division."

Free copies are available at FilingInOregon.com, using the Business Name Search program.



Secretary of State
Corporation Division
255 Capitol Street NE, Suite 151
Salem, OR 97310-1327

Phone: (503) 986-2200
www.filinginoregon.com

Registry Number: 1057201-97
Type: FOREIGN LIMITED LIABILITY COMPANY

Next Renewal Date: 10/27/2015

NOLIN HILLS WIND, LLC
421 SW SIXTH AVE STE 1000
PORTLAND OR 97204

Acknowledgment Letter

The document you submitted was recorded as shown below. Please review and verify the information listed for accuracy.

Document
APPLICATION FOR AUTHORITY

Filed On
10/27/2014

Jurisdiction
DELAWARE

Name
NOLIN HILLS WIND, LLC

Principal Place of Business
421 SW SIXTH AVE STE 1000
PORTLAND OR 97204

Registered Agent
C T CORPORATION SYSTEM
388 STATE ST STE 420
SALEM OR 97301

Mailing Address
421 SW SIXTH AVE STE 1000
PORTLAND OR 97204

Delaware

PAGE 1

The First State

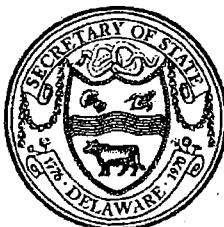
I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "NOLIN HILLS WIND, LLC" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE TWENTY-SEVENTH DAY OF OCTOBER, A.D. 2014.

AND I DO HEREBY FURTHER CERTIFY THAT THE ANNUAL TAXES HAVE NOT BEEN ASSESSED TO DATE.

5617703 8300

141336582

You may verify this certificate online
at corp.delaware.gov/authver.shtml




Jeffrey W. Bullock, Secretary of State
AUTHENTICATION: 1812086

DATE: 10-27-14

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AMENDED AND RESTATED
LIMITED LIABILITY COMPANY AGREEMENT

of

NOLIN HILLS WIND, LLC

Dated as of April 1, 2015

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This AMENDED AND RESTATED LIMITED LIABILITY COMPANY AGREEMENT (this "Agreement") of Nolin Hills Wind, LLC, a Delaware limited liability company (the "Company"), is effective as of April 1, 2015. Capitalized terms used but not otherwise defined herein have the meanings ascribed to them in Section 1.08.

WHEREAS, on October 8, 2014, the Company was formed as a limited liability company under the Limited Liability Company Act of the State of Delaware (the "Act"); and

WHEREAS, the Member wishes to amend and restate, as set forth herein, the Limited Liability Company Agreement dated as of October 9, 2014; and

NOW, THEREFORE, in consideration of the mutual covenants and agreements hereinafter set forth, the Member hereby adopts the following as the Agreement of the Company within the meaning of the Act.

ARTICLE I

Introduction

SECTION 1.01. Name and Form. The Company is a Delaware limited liability company and its name is Nolin Hills Wind, LLC.

SECTION 1.02. Registered Agent and Office. The registered agent for service of process is The Corporation Trust Company, and the mailing address for the registered office of the Company in the State of Delaware is in care of The Corporation Trust Company, 1209 Orange Street, Wilmington, Delaware 19801. Such agent and such office may be changed from time to time by the Member.

SECTION 1.03. Purpose. The purpose of the Company is to engage in any lawful act or activity for which a limited liability company may be organized under the Act.

SECTION 1.04. Liability of the Member.

(a) Except to the extent expressly provided in the Act, the debts, obligations and liabilities of the Company, whether arising in contract, tort or otherwise, shall be solely the debts, obligations and liabilities of the Company, and no Covered Person shall be obligated personally for any such debt, obligation or liability of the Company.

(b) No Covered Person shall be liable to the Company or any other Covered Person for any loss, liability, damage or claim incurred by reason of any act or omission performed or omitted by such Covered Person in good faith on behalf of the Company, except for any act that is taken by a Covered Person purporting to bind the Company and that has not been authorized pursuant to this Agreement. A Covered Person shall be fully protected in relying in good faith upon the records of the Company and upon such information, opinions, reports or statements presented to the Company by any Person (as hereinafter defined) as to matters which such Covered Person reasonably believes are within such Person's professional or expert competence.

(c) To the extent that, at law or in equity, any Covered Person has duties (including fiduciary duties) and liabilities relating thereto to the Company or to any other Covered Person, such Covered Person acting under this Agreement shall not be liable to the Company or to any other Covered Person when so acting in good faith reliance on the provisions of this Agreement. The provisions of this Agreement, to the extent that they restrict the duties and liabilities of a Covered Person otherwise existing at law or in equity, are agreed by the Member to replace such other duties and liabilities of such Covered Person, to the maximum extent permitted by applicable law.

(d) To the maximum extent permitted by applicable law, each Covered Person shall be entitled to indemnification from the Company for any loss, liability, damage or claim incurred by such Covered Person by reason of any act or omission performed or omitted by such Covered Person in good faith on behalf of the Company; provided, however, that any indemnity under this Section 1.04(d) shall be provided out of and to the extent of the Company's assets only, and no other Covered Person shall have any personal liability on account thereof. To the maximum extent permitted by applicable law, expenses (including legal fees) incurred by a Covered Person in defending any claim, demand, action, suit or proceeding shall, from time to time, be advanced by the Company prior to the final disposition of such claim, demand, action, suit or proceeding; provided, however, that such Covered Person shall promptly repay to the Company the amount of any such advanced expenses if it shall be finally judicially determined that such Covered Person was not entitled to indemnification hereunder in connection with the claim, demand, action, suit or proceeding.

SECTION 1.05. Management. The Company shall be managed by the Member. The Member shall have full, exclusive and complete discretion in the management and control of the business of the Company for the purposes herein stated and, subject to the terms hereof, shall make all decisions affecting the business of the Company and may take such actions as the Member deems necessary or appropriate to accomplish the purposes of the Company as set forth herein, including all powers, statutory or otherwise, possessed by the members of a limited liability company under the Act. In connection with such management and control, the Member shall have the power and authority to do or cause to be done any and all acts deemed by the Member to be necessary or appropriate to carry out the purposes of the Company.

SECTION 1.06. Minutes of Meetings. Minutes of each meeting of the Member, including the location and date of the meeting, shall be prepared and shall be kept as records of the Company. A meeting of the Member may be held upon one day's written notice, provided, however, that the Member may waive notice of any meeting, which waiver may be entered into and reflected in the minutes of such meeting and which waiver shall bind the Member once entered into and reflected in the minutes of such meeting.

SECTION 1.07. Reliance. Any Person dealing with the Company may rely on the authority of the Member (or any officer authorized by the Member) in taking any action in the name of the Company, without inquiry into the provisions of this Agreement or compliance herewith and regardless of whether that action actually is taken in accordance with the provisions of this Agreement.

SECTION 1.08. Certain Definitions. As used in this Agreement:

“Affiliate” of any Person shall mean any other Person that, directly or indirectly, Controls, is under common Control with or is Controlled by such Person. In addition, a Person that holds a direct or indirect, contingent or otherwise, equity interest in a specified Person shall be deemed to be an Affiliate of such Person.

“Control” shall mean, as to any Person, the power to direct or cause the direction of the management and policies of such Person, whether through the ownership of voting securities, by contract or otherwise. The terms “Controlled” and “Controlling” shall have correlative meanings.

“Covered Person” shall mean (a) the Member, (b) any Affiliate of the Member, (c) any officer, director, manager, shareholder, partner, employee, representative, trustee or agent of the Member or any Affiliate of the Member, or any spouse thereof, or (d) any officer, director, manager, shareholder, partner, employee, representative, trustee or agent of the Member or any Affiliate of the Member, or any spouse thereof.

“Person” shall mean any individual, corporation, partnership, limited liability company, joint venture, association, joint stock company, trust, unincorporated organization or government or any agency or political subdivision thereof.

ARTICLE II

Common Shares

SECTION 2.01. Authorized Shares; Classification of Interests. There shall be one class of membership interests in the Company, which class shall be denominated as common shares of the Company (the “Common Shares”). The Company shall have authority to issue such number of Common Shares as the Member determines from time to time. As of the date hereof, the Company has issued 100 Common Shares, all of which have been issued to the Member.

SECTION 2.02. Distributions. Distributions shall be made at the times and in the aggregate amounts determined by the Member.

SECTION 2.03. Voting Matters. Any action permitted or required to be taken by the Member may be taken without a meeting, without prior notice and without a vote if a consent in writing, setting forth the action so taken, shall be signed by the Member.

ARTICLE III

Certain Other Matters

SECTION 3.01. Books and Records. At all times during the existence of the Company, the Company shall maintain, at its principal place of business, separate books of account for the Company. Such books of account, together with a copy of this Agreement and the certificate of formation of the Company, as amended or restated from time to time, shall at all times be maintained at the principal place of business of the Company in the United States.

SECTION 3.02. Dissolution. The Company shall dissolve upon the first to occur of the following: (a) the decision of the Member to dissolve the Company, (b) the occurrence of any event described in Section 18-304 of the Act, subject to the grace periods specified in Section 18-304(2) of the Act, and (c) the entry of a decree of dissolution under Section 18-802 of the Act. The Company shall terminate when all of its assets, after payment of or due provision for all debts, liabilities and obligations of the Company, shall have been distributed to the Member in the manner provided for in Section 3.03 of this Agreement, and the certificate of formation of the Company, as amended or restated from time to time, shall have been canceled in the manner required by the Act.

SECTION 3.03. Liquidation. (a) Following dissolution pursuant to Section 3.02 of this Agreement, all the business and affairs of the Company will be liquidated and wound up. The Member shall approve one or more liquidators to act as the liquidator in carrying out such liquidation.

(b) The proceeds of the liquidation of the Company will be distributed (i) first, to creditors of the Company (including the Member, if it is then a creditor of the Company), to the extent otherwise permitted by law in satisfaction of all the Company's debts and liabilities (whether by payment or by making reasonable provision for payment thereof), and (ii) second, to the Member.

SECTION 3.04. Resignation. The Member may not resign from the Company other than by transferring all its Common Shares.

ARTICLE IV

Miscellaneous Provisions

SECTION 4.01. Name and Address of Member. The name and address of the Member is as follows:

Element Power US, LLC
Suite 1000, 99 Summer Street
Boston, MA 02110-1221

SECTION 4.02. Governing Law and Rules of Construction. This Agreement shall be construed by, subject to and governed in accordance with the internal laws of the State of Delaware without giving effect to conflict of laws or other principles that would result in the application of laws other than the internal laws of the State of Delaware. This Agreement shall be construed in accordance with Section 18-1101 of the Act. Any reference to the Act, except those references which may appear in the recitals of this Agreement, shall include any amendment to the Act or any successor thereto and any rules and regulations promulgated thereunder.

SECTION 4.03. Successors and Assigns. This Agreement shall be binding upon the Company, the Member and their respective successors and assigns.

SECTION 4.04. Amendments; Waivers. This Agreement may be amended or waived from time to time by an instrument in writing signed by the Member.

SECTION 4.05. Severability. If any portion of this Agreement is declared by a court of competent jurisdiction to be invalid or unenforceable, such declaration shall not affect the validity of the remaining provisions.

SECTION 4.06. Headings. The titles of Sections of this Agreement are for convenience only and shall not be interpreted to limit or amplify the provisions of this Agreement.

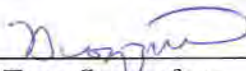
SECTION 4.07. Third Party Beneficiaries. None of the provisions of this Agreement shall be for the benefit of or enforceable by any creditor of the Company or by any creditor of the Member; provided, however, that Section 1.04 shall benefit Covered Persons.

[Remainder of Page Intentionally Left Blank]

IN WITNESS WHEREOF, the undersigned, intending to be legally bound hereby, has duly executed this Agreement as of the date first written above.

NOLIN HILLS WIND, LLC

By: Element Power US, LLC,
its sole member

By: 
Name: Tony Scozzafava
Title: Vice President and Treasurer

OREGON SECRETARY OF STATE
► Corporation Division

HOME

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referral list business registry/renewal forms/fees notary public

uniform commercial code uniform commercial code search documents & data services

Business Name Search

New Search Printer Friendly

Business Entity Data

08-28-2017
06:59

Registry Nbr	Entity Type	Entity Status	Jurisdiction	Registry Date	Next Renewal Date	Renewal Due?
1057201-97	FLLC	ACT	DELAWARE	10-27-2014	10-27-2017	
Entity Name NOLIN HILLS WIND, LLC						
Foreign Name						

New Search Printer Friendly

Associated Names

Type	PPB	PRINCIPAL PLACE OF BUSINESS				
Addr 1	SUITE 1200 - 10423 101 STREET NW					
Addr 2						
CSZ	EDMONTON	AB	T5H 0E9		Country	CANADA

Please click [here](#) for general information about registered agents and service of process.

Type	AGT	REGISTERED AGENT	Start Date	10-27-2014	Resign Date	
Of Record	003292-27	C T CORPORATION SYSTEM				
Addr 1	780 COMMERCIAL ST SE STE 100					
Addr 2						
CSZ	SALEM	OR	97301	3465	Country	UNITED STATES OF AMERICA

Type	MAL	MAILING ADDRESS				
Addr 1	ATTN SUZANNE M FREBURG					
Addr 2	925 FOURTH AVE SUITE 2900					
CSZ	SEATTLE	WA	98104		Country	UNITED STATES OF AMERICA

Type	MEM	MEMBER		Resign Date	
Of Record	593283-94	ELEMENT POWER US, LLC			
Addr 1	155 FEDERAL STREET SUITE 1200				
Addr 2					




CSZ	BOSTON	MA	02110		Country	UNITED STATES OF AMERICA
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[New Search](#) [Printer Friendly](#) [Name History](#)

Business Entity Name	Name Type	Name Status	Start Date	End Date
NOLIN HILLS WIND, LLC	EN	CUR	10-27-2014	

Please [read](#) before ordering [Copies](#).

[New Search](#) [Printer Friendly](#) [Summary History](#)

Image Available	Action	Transaction Date	Effective Date	Status	Name/Agent Change	Dissolved By
	CHANGE OF REGISTERED AGENT/ADDRESS	06-12-2017		FI		
	AMENDED ANNUAL REPORT	09-26-2016		FI		
	AMENDED ANNUAL REPORT	10-07-2015		FI		
	APPLICATION FOR AUTHORITY	10-27-2014		FI	Agent	

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For comments or suggestions regarding the operation of this site,
please contact : corporation.division@state.or.us

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CONSENT OF SOLE MEMBER OF NOLIN HILLS WIND, LLC

The undersigned, being the sole Member of Nolin Hills Wind, LLC, hereby gives its written consent to the following Resolutions:

RESOLVED: That Paul F. Wendelgass, Director of Business Development, Capital Power Corporation, is hereby appointed to execute, deliver and perform all actions necessary for the filing of a Notice of Intent for the Nolin Hills Wind Farm, to be filed with the Oregon Energy Facility Siting Council, with further authority to execute, deliver and perform all tasks necessary to submit an Application for Site Certification with the Oregon Energy Facility Siting Council; and

FURTHER RESOLVED: That any and all actions heretofore taken by the Member or Paul F. Wendelgass, in his capacity as representative of Nolin Hills Wind, LLC, are hereby authorized, and that Paul F. Wendelgass is further authorized to execute, deliver, and cause Nolin Hills Wind, LLC to perform all tasks necessary in accordance with this consent, such actions hereby in all respects ratified, approved and confirmed.

IN WITNESS WHEREOF, the undersigned, intending to be legally bound hereby, has duly executed this Consent as of the date below.

NOLIN HILLS WIND, LLC

By: Element Power US, LLC,
its sole Member

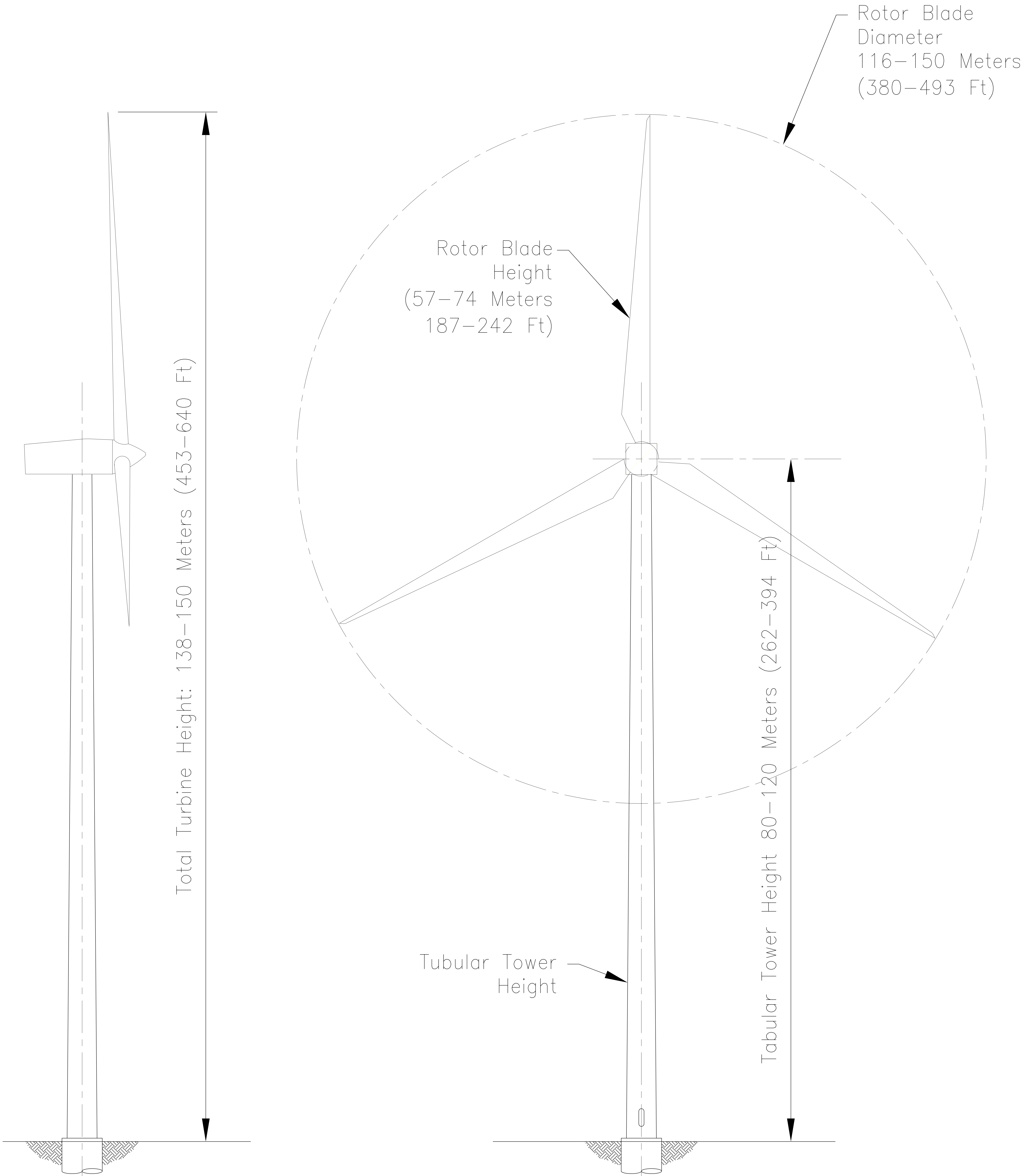
By: Christopher L. Kopecky
Date: 8/28/17
Name: Christopher L. Kopecky
Title: VP & Assistant Corp. Secretary

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ATTACHMENT 2. FIGURES REFERENCED IN EXHIBIT B – FACILITY DESIGN

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Figure B-1. Turbine Drawing Layout



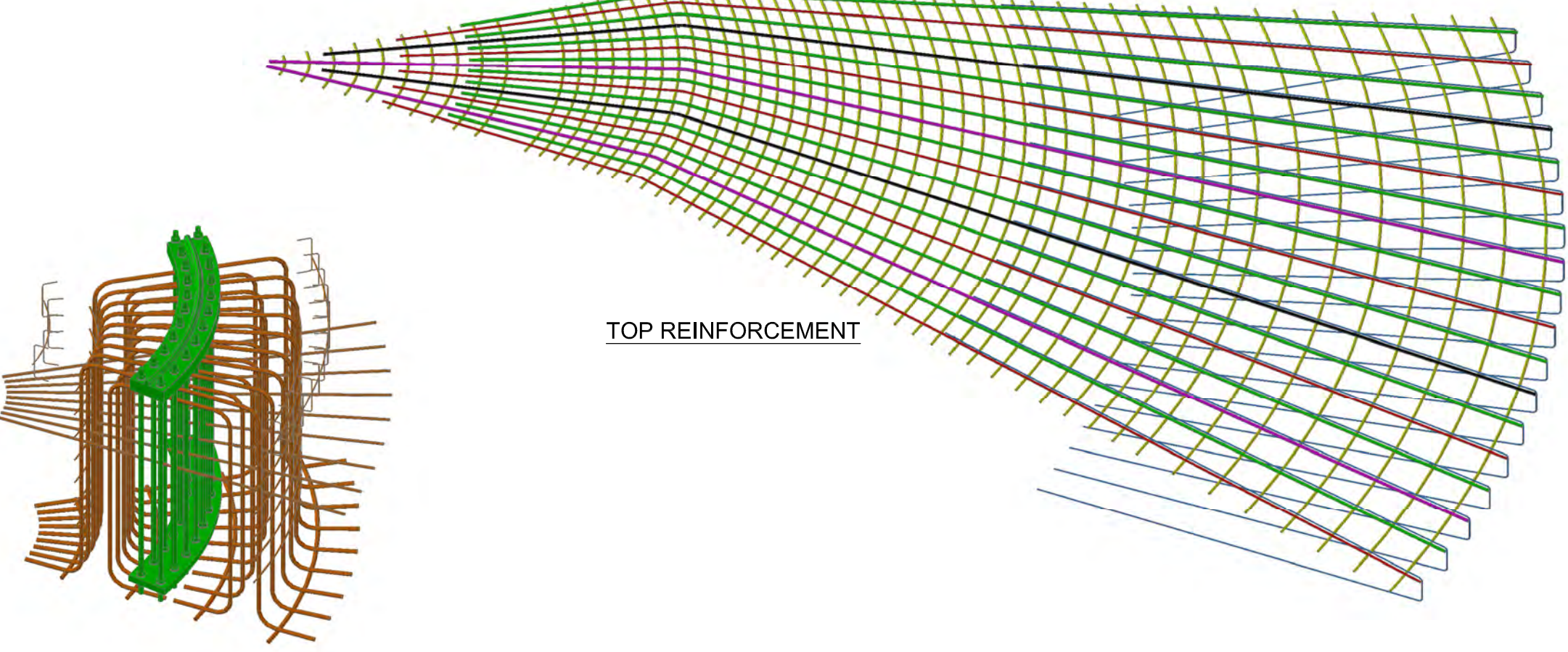
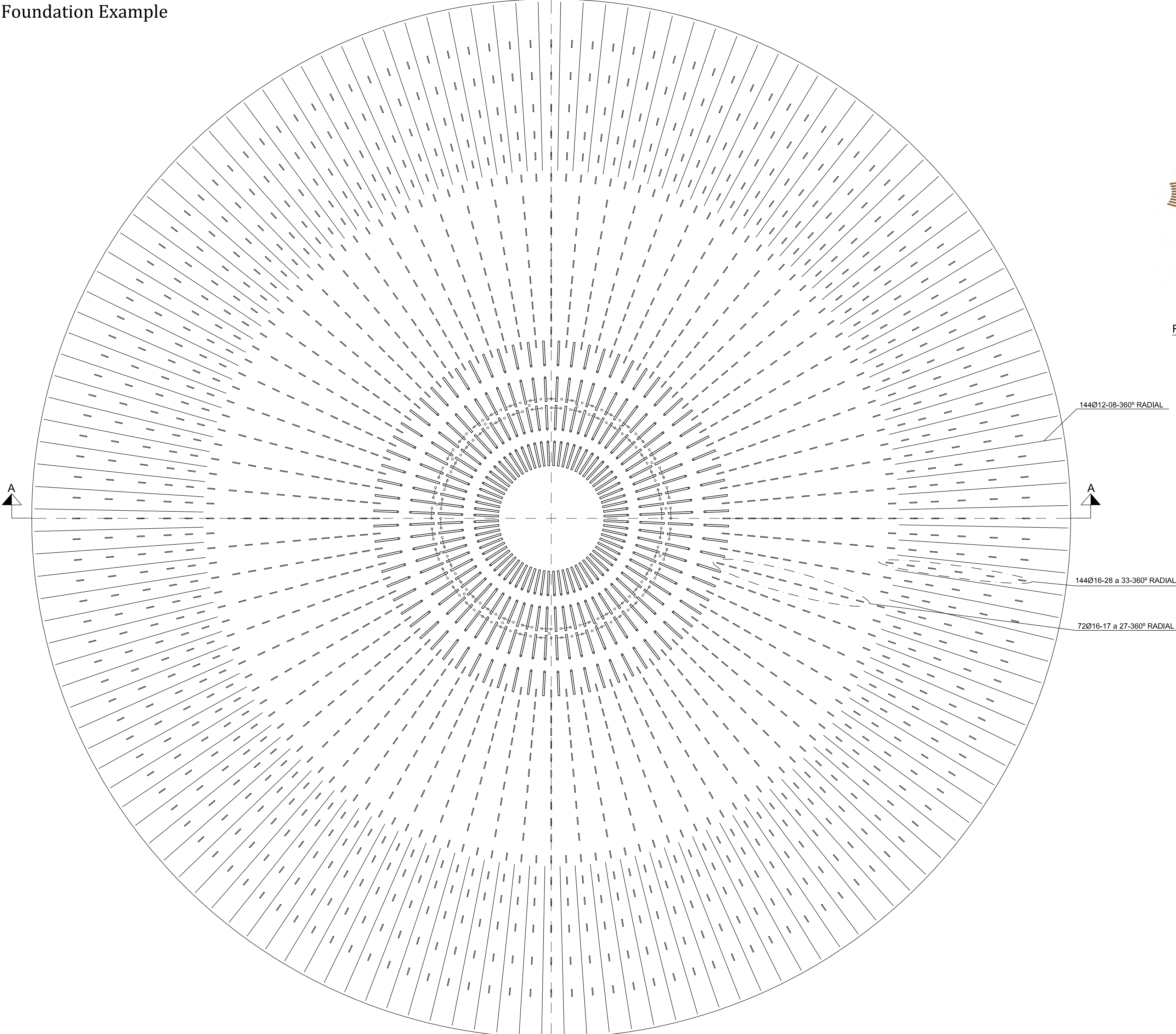
NOLIN HILLS WIND

DRAWN	CHECK		ENG.	PROJ.	ISSUED FOR	DATE	REV

TYPICAL WIND TURBINE
ELEVATION

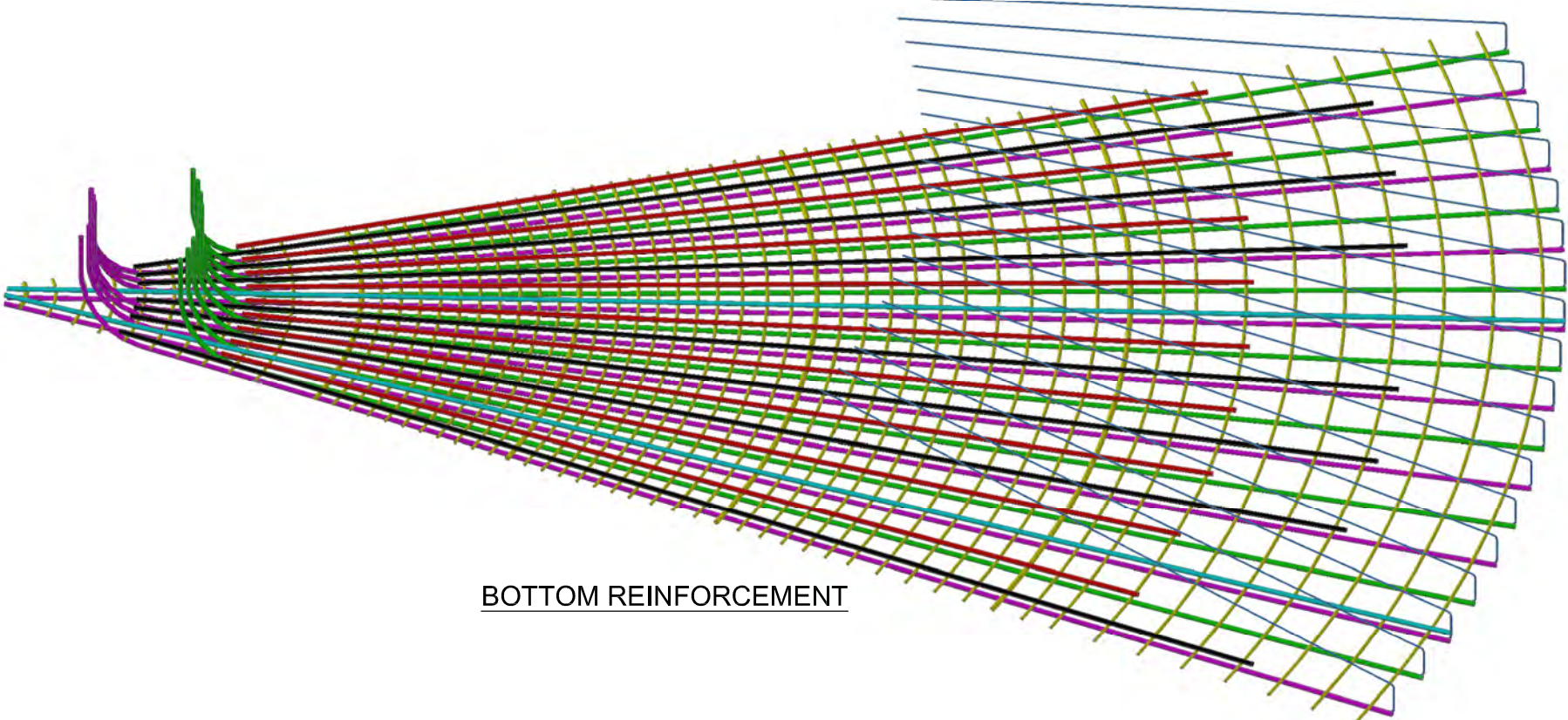


Figure B-2. Turbine Foundation Example

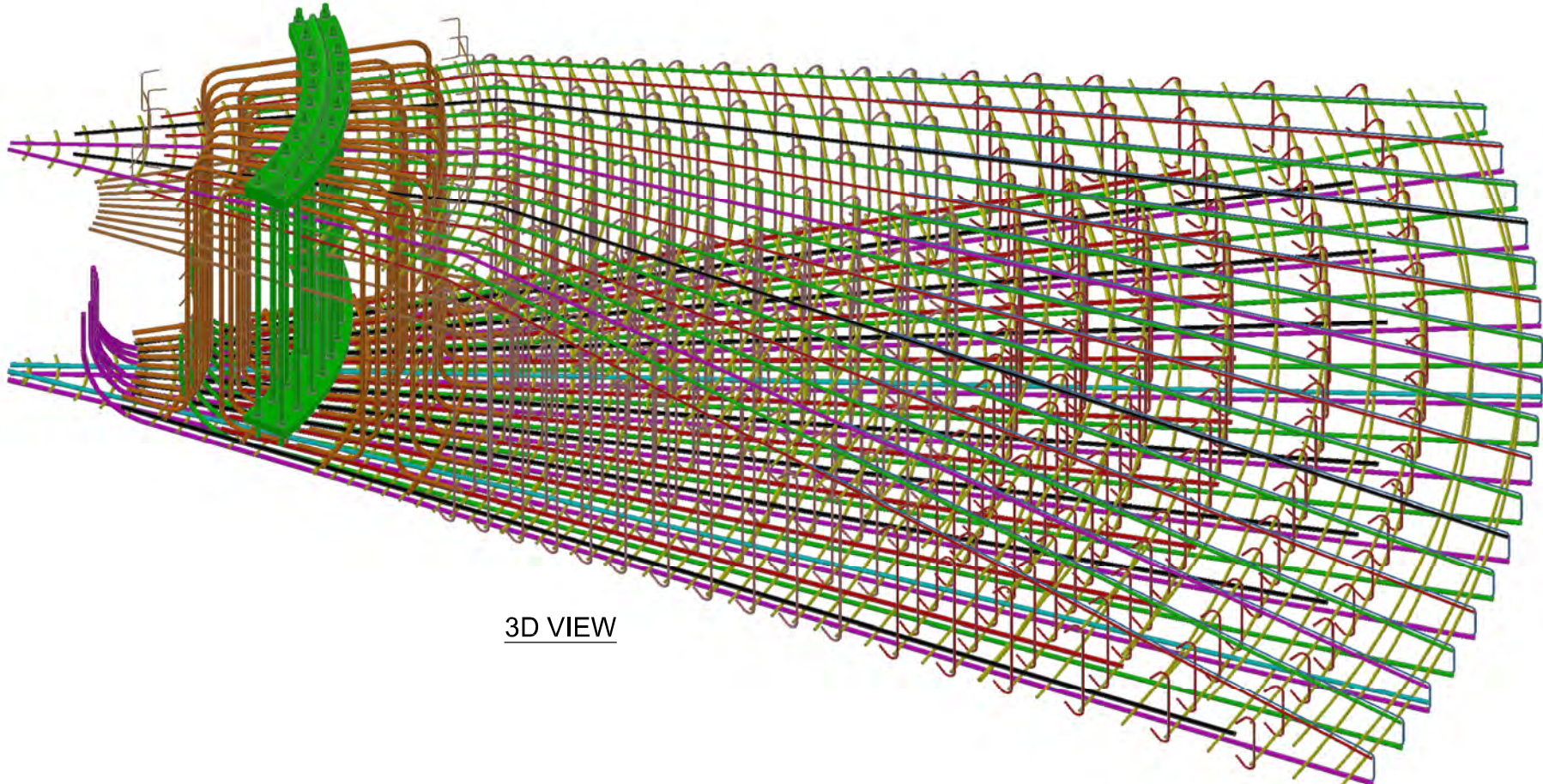


TOP REINFORCEMENT

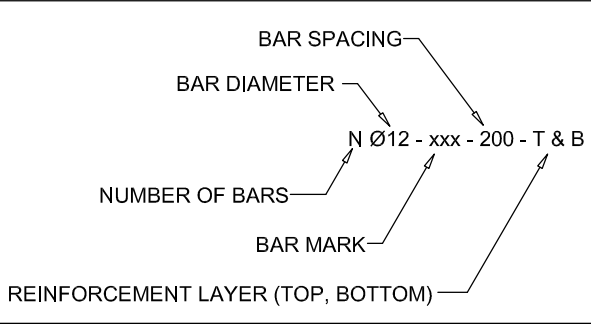
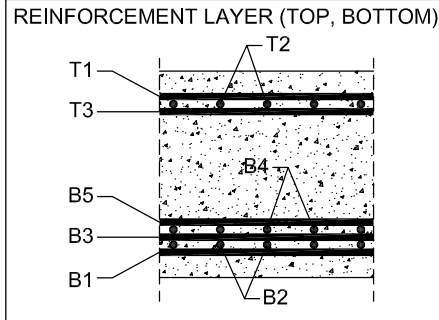
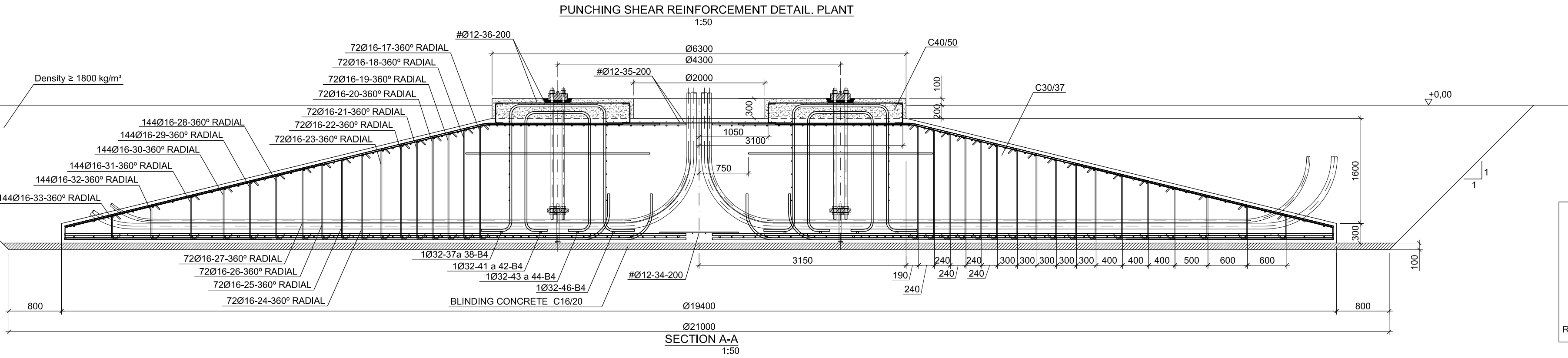
REINFORCEMENT OF THE SAFT



BOTTOM REINFORCEMENT



3D VIEW



ANCHORAGE AND LAP LENGTHS ACCORDING TO EC-2 (UNLESS SPECIFIED AT DRAWING)										
BAR DIAMETER, D [mm] STEEL B 500 A	Reinforcement in tension								Reinforcement in compression	
	8	10	12	16	20	25	32	40	D	Concrete Class
Anchorage length, l _{sd} [mm]	210	280	360	530	690	900	1150	1560	36D	C30/37
Straight bars only	290	400	520	750	990	1280	1640	2230	51D	C30/37
Lap length, l _l [mm]	310	420	540	790	1040	1350	1720	2340	54D	C30/37
100% lapped in one location (allelo=1.5)	430	600	780	1130	1480	1920	2460	3340	77D	C30/37

MATERIALS ACC. TO EN 206-1

REINFORCEMENT: STEEL S500 (f_{yk}=500 MPa)
CONCRETE:
LEAN CONCRETE: C16/20 (f_{ck} = 16 MPa cylinder test)
MAXIMUM SIZE OF COARSE AGGREGATE: 20mm
CONSISTENCE: 50-90mm
FOUNDATION:
SLAB: C30/37 (f_{ck} = 30MPa cylinder test)
PEDESTAL: C40/50 (f_{ck} = 40MPa cylinder test)
MAXIMUM SIZE OF COARSE AGGREGATE:15mm
CONSISTENCE: 100-150mm
EXPOSURE CLASS: XC2
COVERING: 50mm
FILLING SOILS WITH APPROPRIATE MATERIAL FROM EXCAVATION IN LAYER THICKNESS OF 300mm (DENSITY ≥ 1800kg/m³)

- NOTES:
1- GROUND WATER LEVEL BELOW FOUNDATION BASE..
2- PLACE SPACERS BELOW BOTTOM REINFORCEMENT
3- WELDING IS FORBIDDEN
4- SOIL BEARING RESISTANCE 300 kPa (SLS)


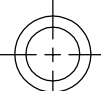
FOUNDATION QUANTITIES:

STEEL S50 (aprox.) = 38.463 kg
CONCRETE SLAB C30/37 = 314.5 m³
CONCRETE PEDESTAL C40/50 = 8.4 m³

NOT VALID
FOR CONSTRUCTION

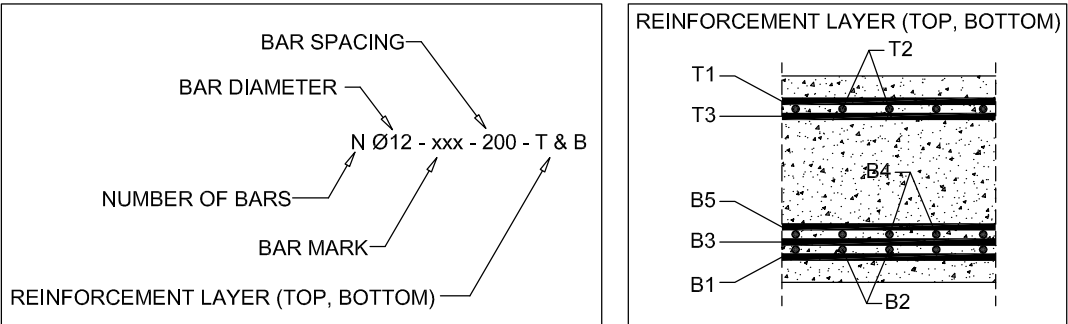
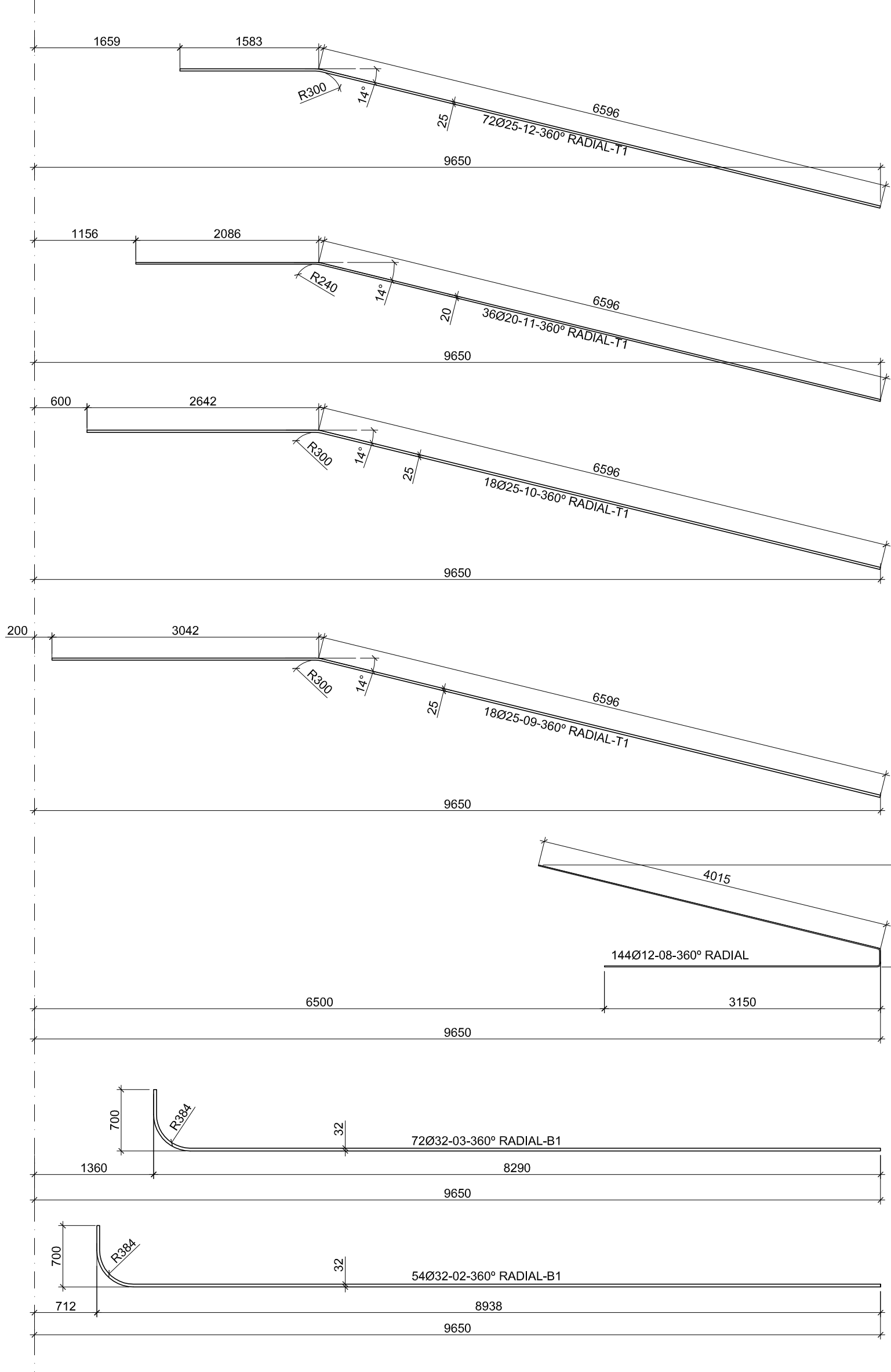
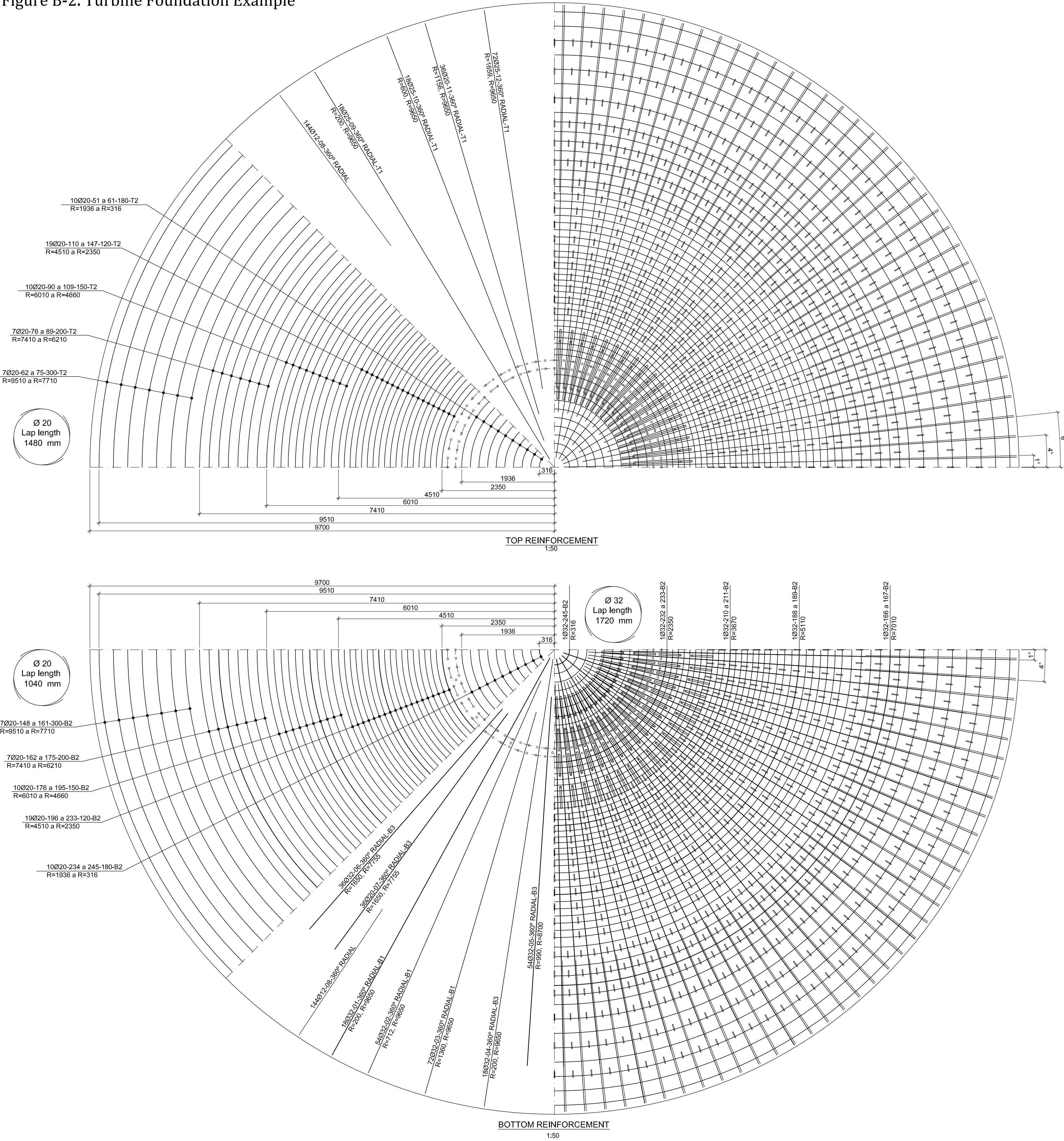
NOTE:
QUANTITY AND TYPE COMPONENTS MAY CHANGE DEPENDING ON WIND TURBINE MODEL

REV	REV	FECHA/DATE	REALIZADO/CREATED	MODIFICACION / MODIFICATION
C	23-05-16		KLF	AÑADIR NOTA DE TOLERANCIA / TOLERANCE REMARK ADDED
B	04-05-16		KLF	ACTUALIZAR CTO JAUJA CIMENTACION / FOUNDATION CAGE ASSEMBLY UPDATED
A	13-04-16		KLF	CREACION DE PLANO / DRAWING CREATION

MATERIAL / MATERIAL		TOLERANCIAS GENERALES / GENERAL TOLERANCES		PESO / WEIGHT (kg)			
DELLADO DRAWN	COMPROBADO CHECKED	APROBADO APPROVED					
NOMBRE NAME	23-05-2016	23-05-2016	23-05-2016				
FECHA DATE							
ESCALA / SCALE	DENOMINACION	EJEMPLO CIMENTACION AW3000 T87.5 V2					
1/50	NAME	FOUNDATION EXAMPLE AW3000 T87.5 V2					
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acciona Windpower	
PLANO Nº / DRAWING Nº	REVISION / REVIEW
DG200624	C
HOJA Nº / SHEET Nº	1-4
FORMATO / FORMAT	A1

Figure B-2. Turbine Foundation Example



ANCHORAGE AND LAP LENGTHS ACCORDING TO EC-2 (UNLESS SPECIFIED AT DRAWING)

BAR DIAMETER, D [mm] STEEL B 500 A	Reinforcement in tension								Reinforcement in compression		Concrete Class	Condition
	8	10	12	16	20	25	32	40	D			
Anchorage length, l _{ae} [mm] Straight bars only	210	280	360	530	690	900	1150	1560	36D	C30/37	GOOD	
	290	400	520	750	990	1280	1640	2230	51D	C30/37	POOR	
Lap length, l _l [mm] 100% lapped in one location (alpha=1.5)	310	420	540	790	1040	1350	1720	2340	54D	C30/37	GOOD	
	430	600	780	1130	1480	1920	2460	3340	77D	C30/37	POOR	

MATERIALS ACC. TO EN 206-1

REINFORCEMENT: STEEL S500 (f_{yk}=500 MPa)
CONCRETE:
LEAN CONCRETE:
C16/20 (f_{ck} = 16 MPa cylinder test)
MAXIMUM SIZE OF COARSE AGGREGATE: 20mm
CONSISTENCE: 90-90mm
FOUNDATION:
SLAB: C30/37 (f_{ck} = 30MPa cylinder test)
PEDESTAL: C40/50 (f_{ck} = 40MPa cylinder test)
MAXIMUM SIZE OF COARSE AGGREGATE:15mm
CONSISTENCE: 100-150mm
EXPOSURE CLASS: XC2
COVERING: 50mm

FILLING SOILS WITH APPROPRIATE MATERIAL FROM EXCAVATION IN LAYER THICKNESS OF 300mm (DENSITY ≥ 1800kg/m³)

- NOTES:
- 1- GROUND WATER LEVEL BELOW FOUNDATION BASE.
 - 2- PLACE SPACERS BELOW BOTTOM REINFORCEMENT
 - 3- WELDING IS FORBIDDEN
 - 4- SOIL BEARING RESISTANCE 300 kPa (SLS)

MATERIAL / MATERIAL		TOLERANCIAS GENERALES / GENERAL TOLERANCES		PESO / WEIGHT (kg)			PLANO N° / DRAWING N°	REVISION / REVIEW
DISEÑO / DESIGN	COMPROBADO / CHECKED	APPROBADO / APPROVED						
NOMBRE / NAME	FECHA / DATE	23-05-2016	23-05-2016	23-05-2016			DG200624	C
ESCALA / SCALE	DENOMINACION	EJEMPLO CIMENTACION AW3000 T87.5 V2					HUJA N° / SHEET N°	2-4
1/50	NOMBRE / NAME	FOUNDATION EXAMPLE AW3000 T87.5 V2					FORMATO / FORMAT	A1

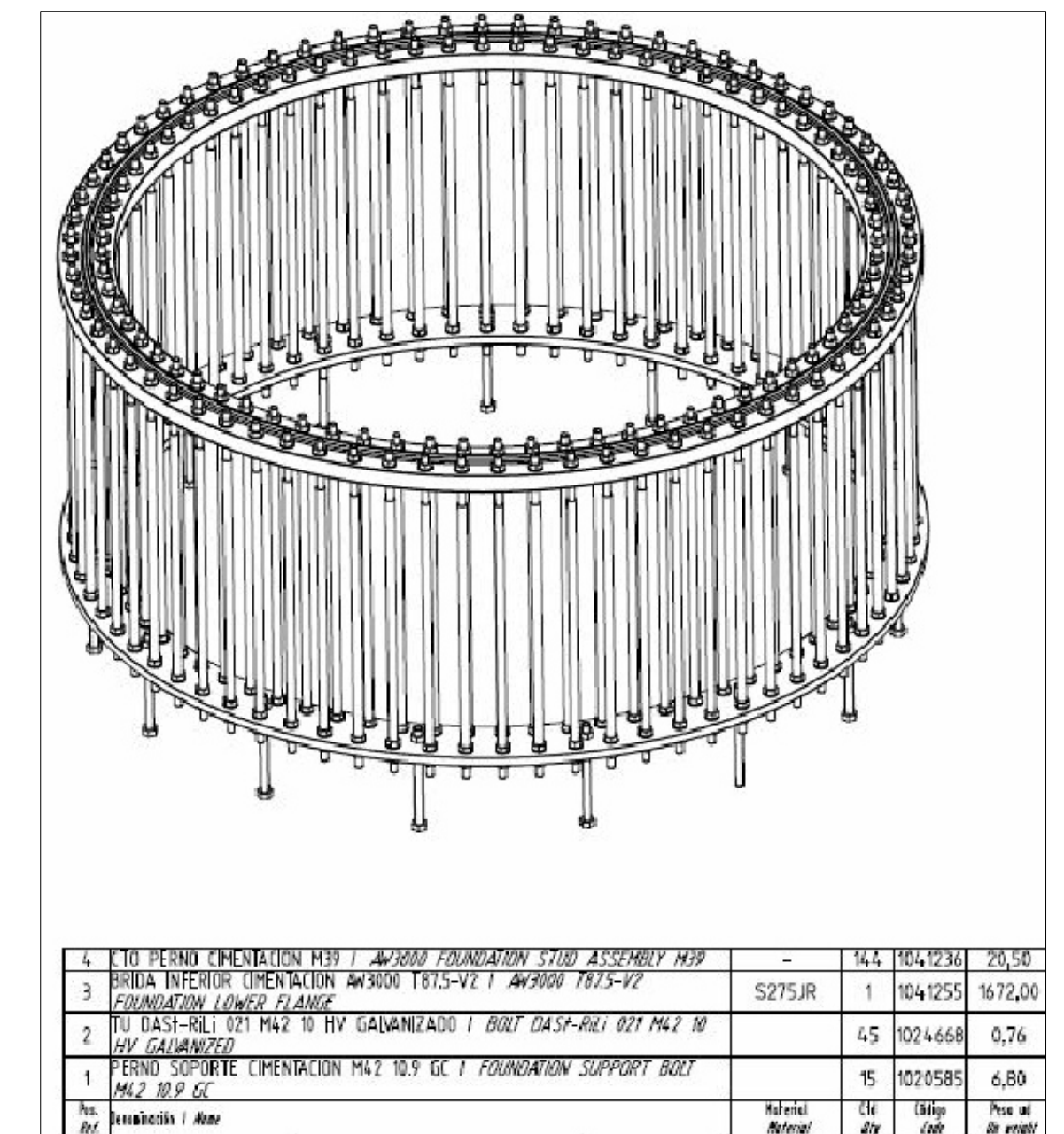
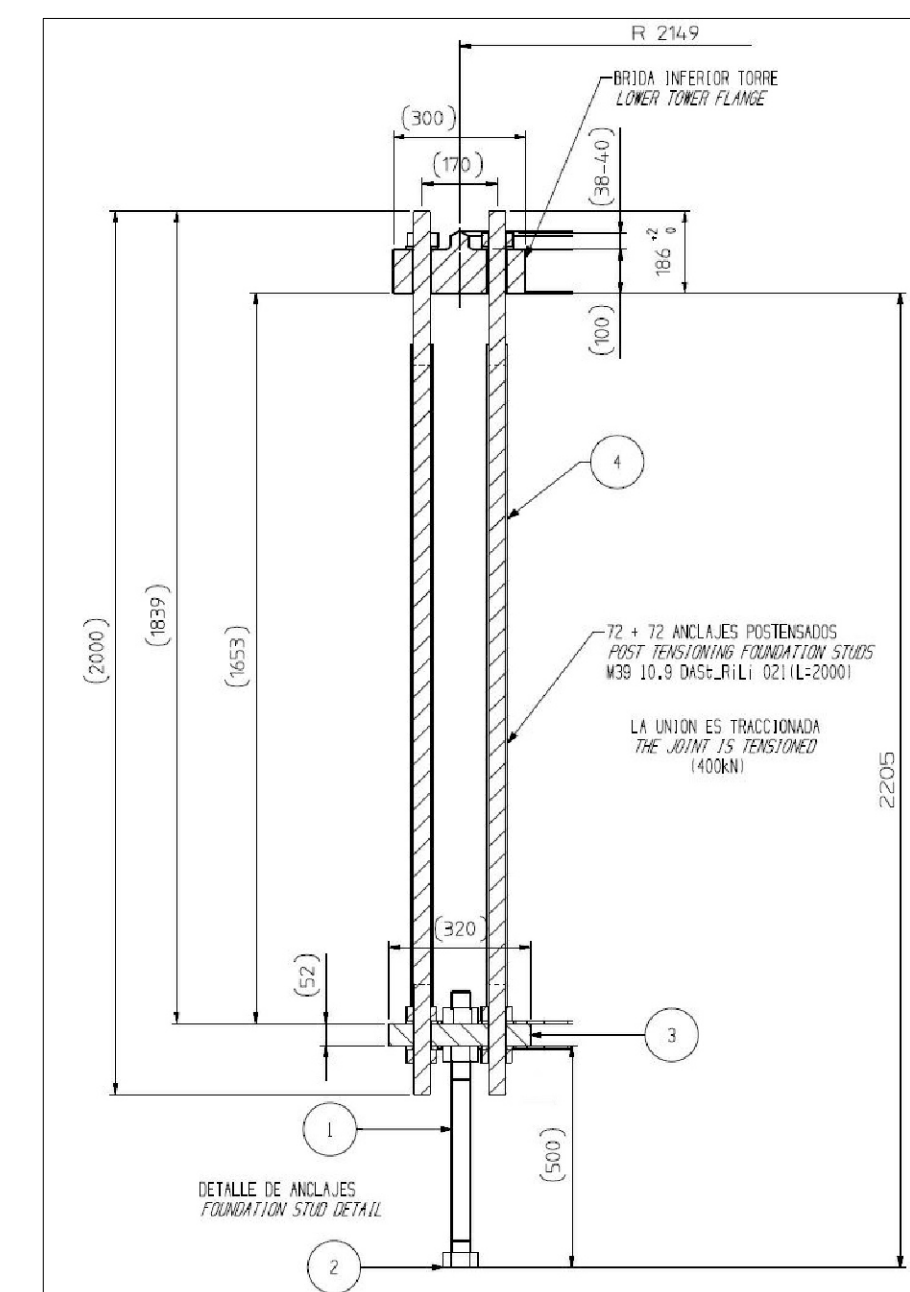
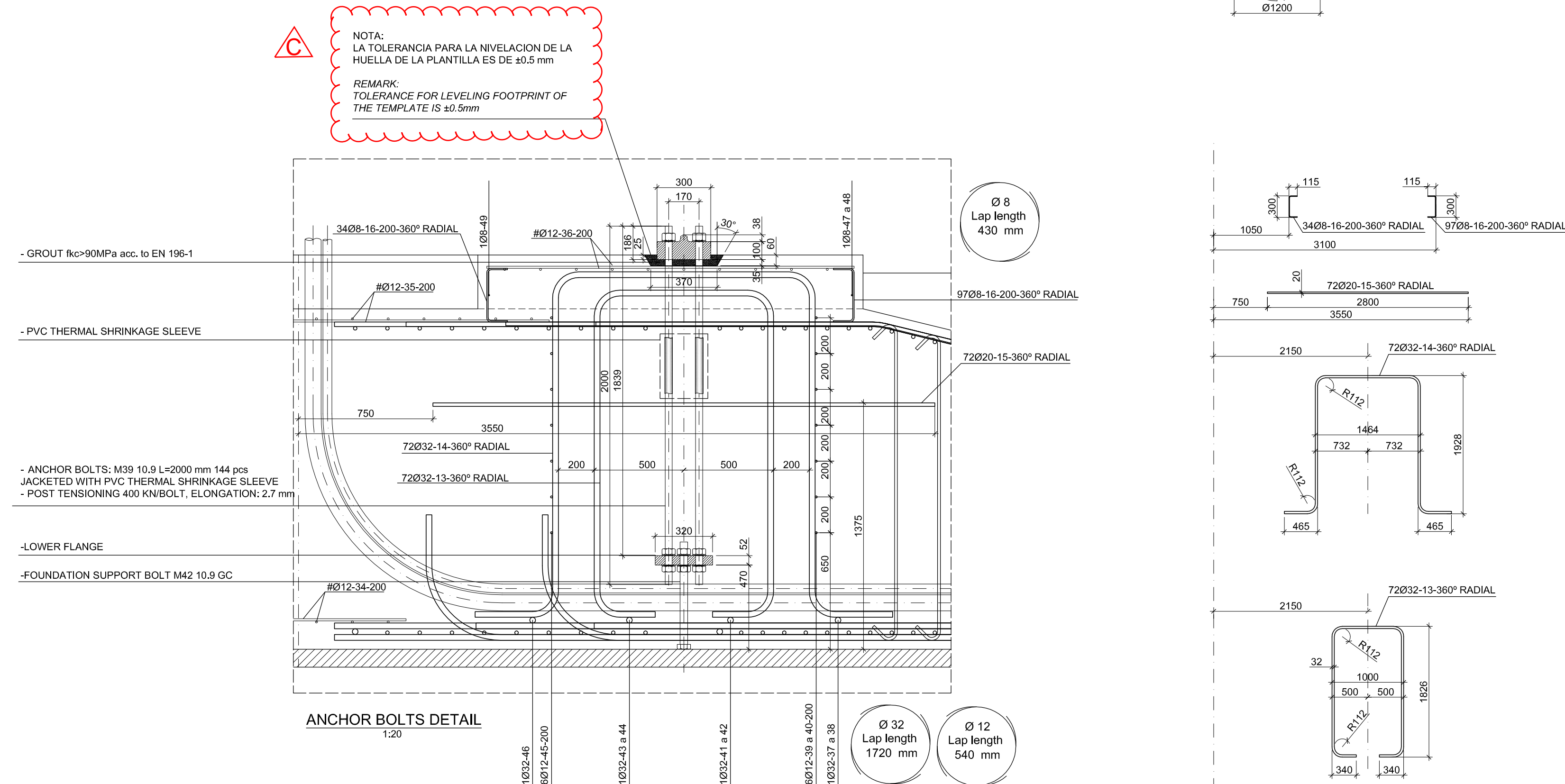
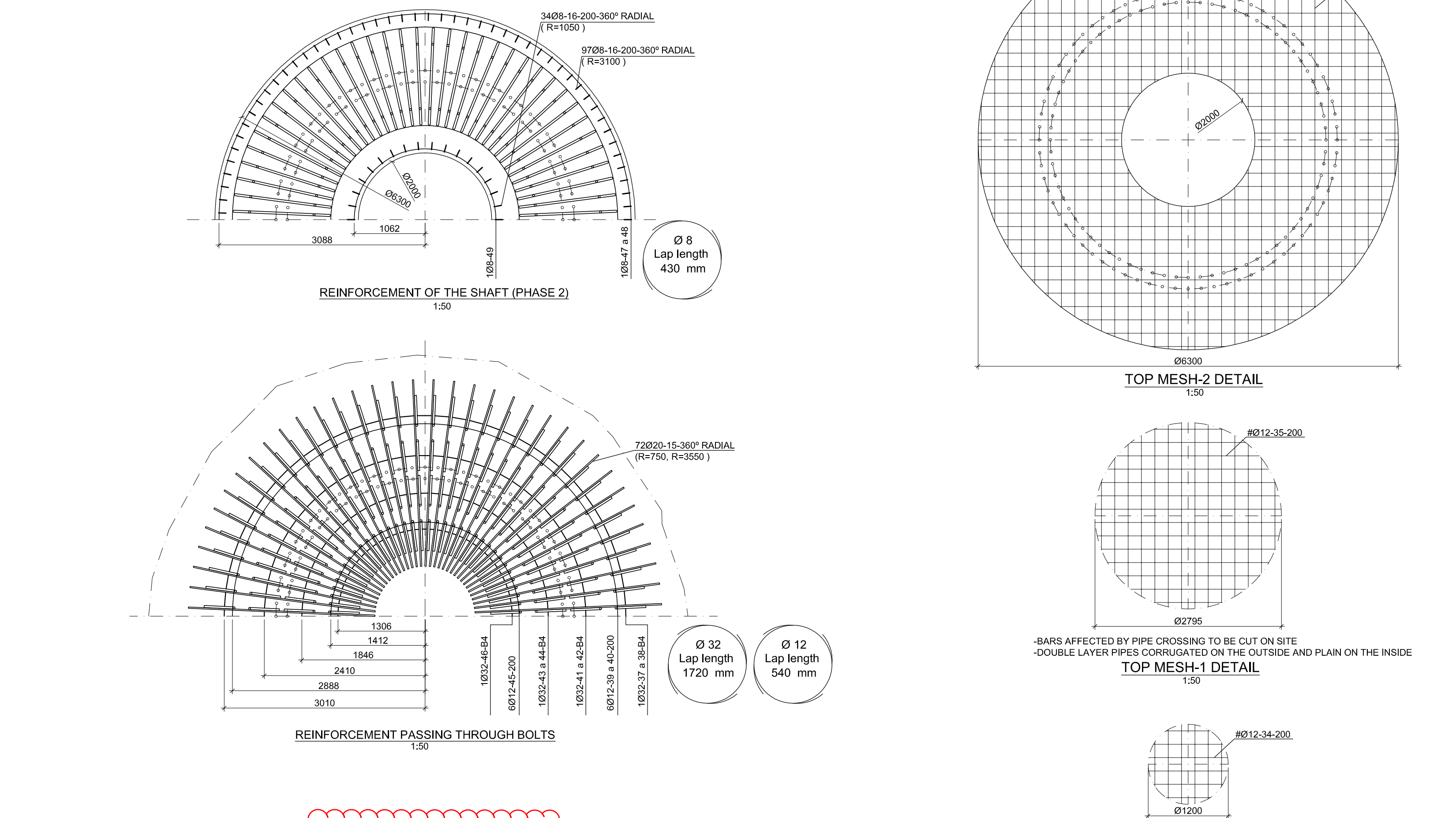
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FOR CONSTRUCTION

NOTE:
QUANTITY AND TYPE COMPONENTS MAY CHANGE DEPENDING ON WIND TURBINE TURBINE MODEL.

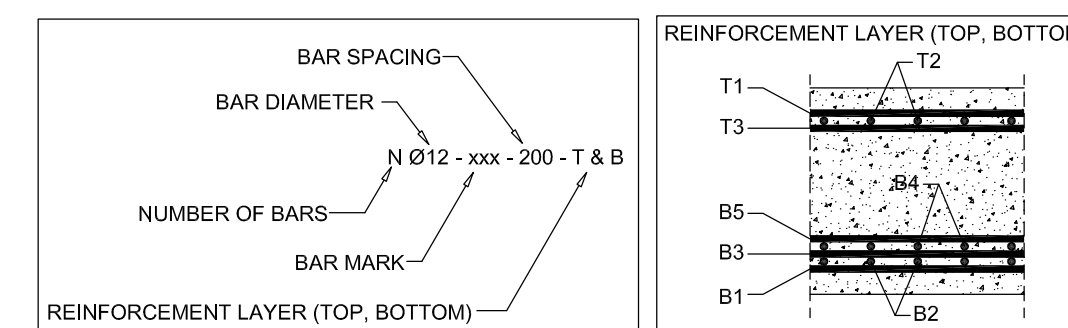
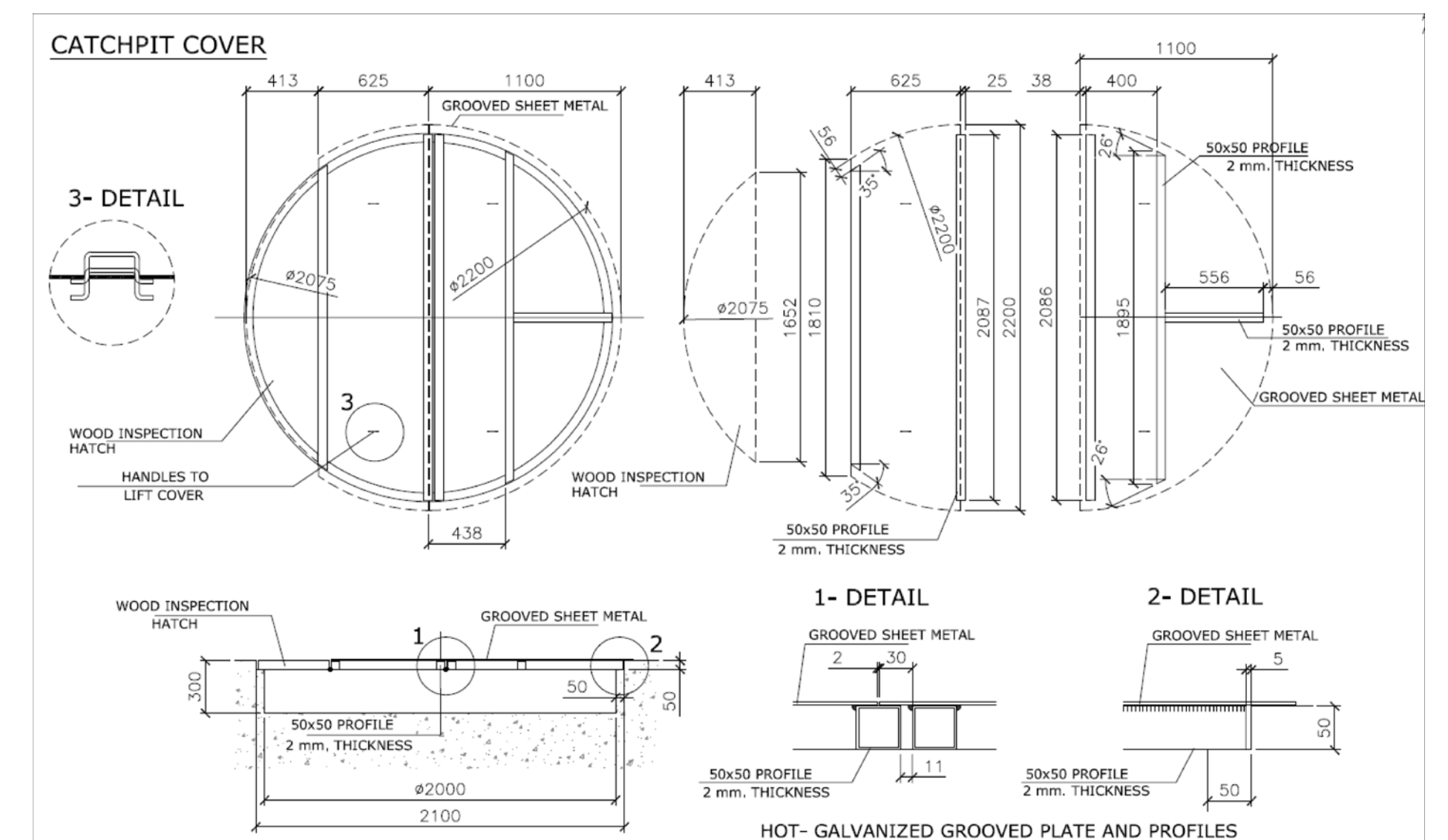
C	23-05-16	KLF	AÑADOR NOTA DE TOLERANCIA / TOLERANCE REMARK ADDED
B	04-05-16	KLF	ACTUALIZAR CTO JAULA CIMENTACION / FOUNDATION CAGE ASSEMBLY UPDATED
A	19-04-16	KLF	CREACION DE PLANO / DRAWING CREATION
REV/REV	FECHA/DATE	REALIZADO/CREATED	MODIFICACION / MODIFICATION

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Figure B-2. Turbine Foundation Example



DETAILS ACCORDING TO DRAWING 1042017

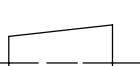






ANCHORAGE AND LAP LENGTHS ACCORDING TO EC-2 (UNLESS SPECIFIED AT DRAWING)											
BAR DIAMETER, D [mm] STEEL B 500 A	Reinforcement in tension								Reinforcement in compression	Concrete Class	Condition
	8	10	12	16	20	25	32	40	D		
Anchorage length, l _{ae} [mm] Straight bars only	210	280	360	530	690	900	1150	1560	36D	C30/37	GOOD
	290	400	520	750	990	1280	1640	2230	51D	C30/37	POOR
Lap length, l _{l0} [mm] 100% lapped in one location (α _{l0} =1.5)	310	420	540	790	1040	1350	1720	2340	54D	C30/37	GOOD
	430	600	780	1130	1480	1920	2460	3340	77D	C30/37	POOR

<p>MATERIALS ACC. TO EN 206-1</p> <p>REINFORCEMENT: STEEL S500 ($f_{yk}=500$ MPa)</p> <p>CONCRETE:</p>	<p>NOTES:</p> <p>1- GROUND WATER LEVEL BELOW FOUNDATION BASE.</p> <p>2- PLACE SPACERS BELOW BOTTOM REINFORCEMENT</p> <p>3- WELDING IS FORBIDDEN</p> <p>4- SOIL BEARING RESISTANCE 300 kPa (SLS)</p>
--	--

LEAN CONCRETE:
C16/20 (fck = 16 MPa cylinder test)
MAXIMUM SIZE OF COARSE AGGREGATE: 20mm
CONSISTENCE: 50-90mm

FOUNDATION:
SLAB: C30/37 (fck = 30MPa cylinder test)
PEDESTAL: C40/50 (fck = 40MPa cylinder test)
MAXIMUM SIZE OF COARSE AGGREGATE: 15mm
CONSISTENCE: 100-150mm
EXPOSURE CLASS: Xc2
COVERING: 50mm

FILLING SOILS WITH APPROPRIATE MATERIAL FROM EXCAVATION IN LAYER THICKNESS OF 300mm (DENSITY ≥ 1800kg/m³)						
MATERIAL / MATERIAL		TOLERANCIAS GENERALES / GENERAL TOLERANCES			PESO / WEIGHT (kg)	
	DEBILADO DRAWN	COMPROBADO CHECKED	APROBADO APPROVED			
NOMBRE NAME		 J. F.	 J. F.			
FECHA DATE	23-05-2016	23-05-2016	23-05-2016			
EJEMPLO CIMENTACION AW3000 T87.5 V2						
						
PLANO N.º / DRAWING N.º		REVISIÓN / REVIEW				
DG200624		C				
HOJA N.º / SHEET N.º		3-4				
FORMATO / FORMAT A1						

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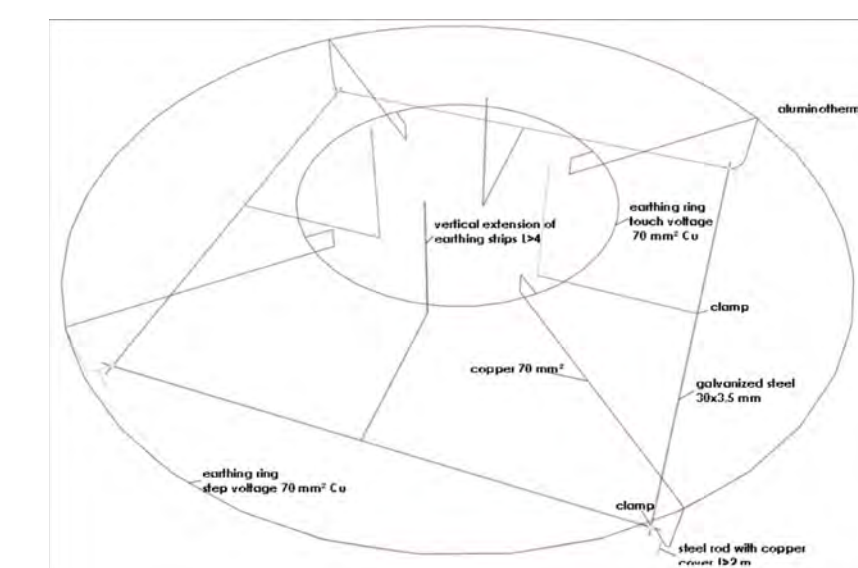
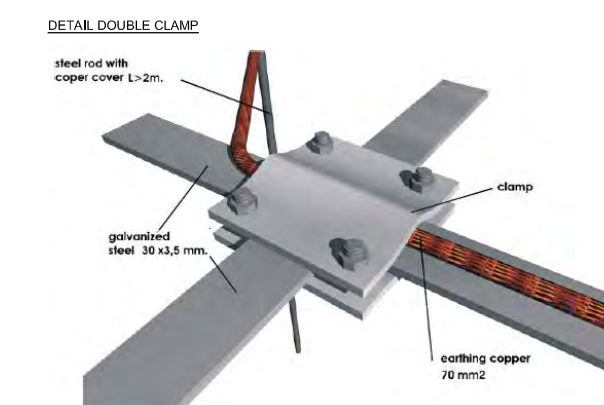
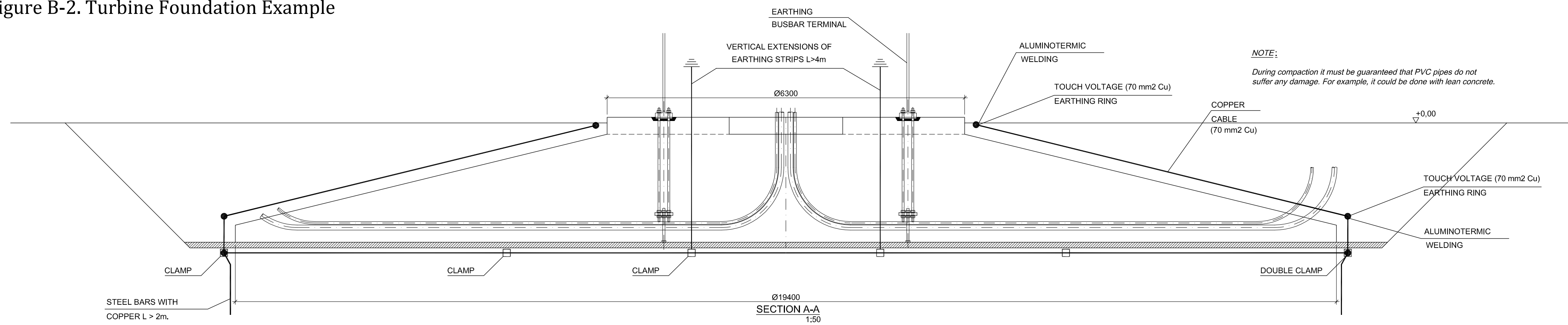
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NOTE:
QUANTITY AND TYPE COMPONENTS MAY CHANGE DEPENDING ON WIND TURBINE MODEL

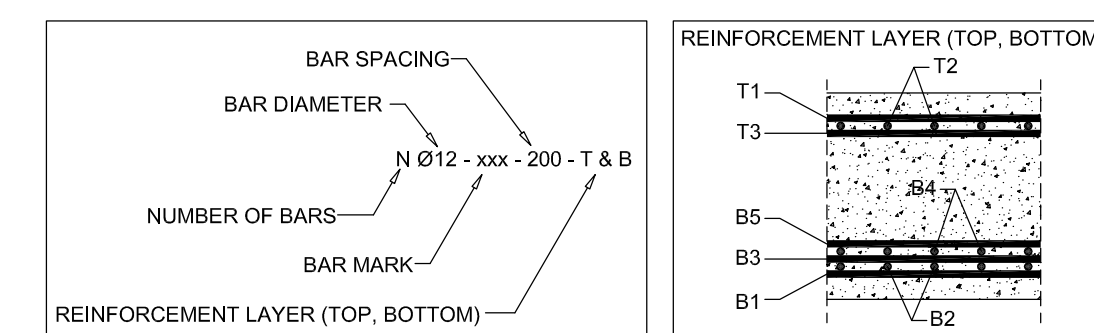
C	23-05-16	KLF	ANADIR NOTA DE TOLERANCIA / TOLERANCE REMARK ADDED
B	04-05-16	KLF	ACTUALIZAR CTO JAULA CIMENTACION / FOUNDATION CAGE ASSEMBLY UPDATED
A	13-04-16	KLF	CREACION PLANO / DRAWING CREATION
REV./REV	FECHA./DATE	REALIZADO./CREATED	MODIFICACION / MODIFICATION

Figure B-2. Turbine Foundation Example



NOT VALID
FOR CONSTRUCTION

NOTE:
QUANTITY AND TYPE COMPONENTS MAY CHANGE DEPENDING ON WIND TURBINE MODEL



ANCHORAGE AND LAP LENGTHS ACCORDING TO EC-2 (UNLESS SPECIFIED AT DRAWING)												
BAR DIAMETER, D [mm] STEEL B 500 A		Reinforcement in tension							Reinforcement in compression	Concrete Class	Condition	
		8	10	12	16	20	25	32	40			D
Anchorage length, lo [mm]		210	280	360	530	690	900	1150	1560	36D	C30/37	GOOD
Straight bars only		290	400	520	750	990	1280	1640	2230	51D	C30/37	POOR
Lap length, ll [mm]	100% lapped in one location (allaf=1.5)	430	420	540	790	1040	1350	1720	2340	54D	C30/37	GOOD
	75D	430	600	780	1130	1480	1920	2460	3340	77D	C30/37	POOR

MATERIALS ACC. TO EN 206-1

REINFORCEMENT: STEEL S500 (fyk=500 MPa)
CONCRETE:

LEAN CONCRETE:

C16/20 (fck = 16 MPa cylinder test)
MAXIMUM SIZE OF COARSE AGGREGATE: 20mm
CONSISTENCE: 50-90mm

FOUNDATION:

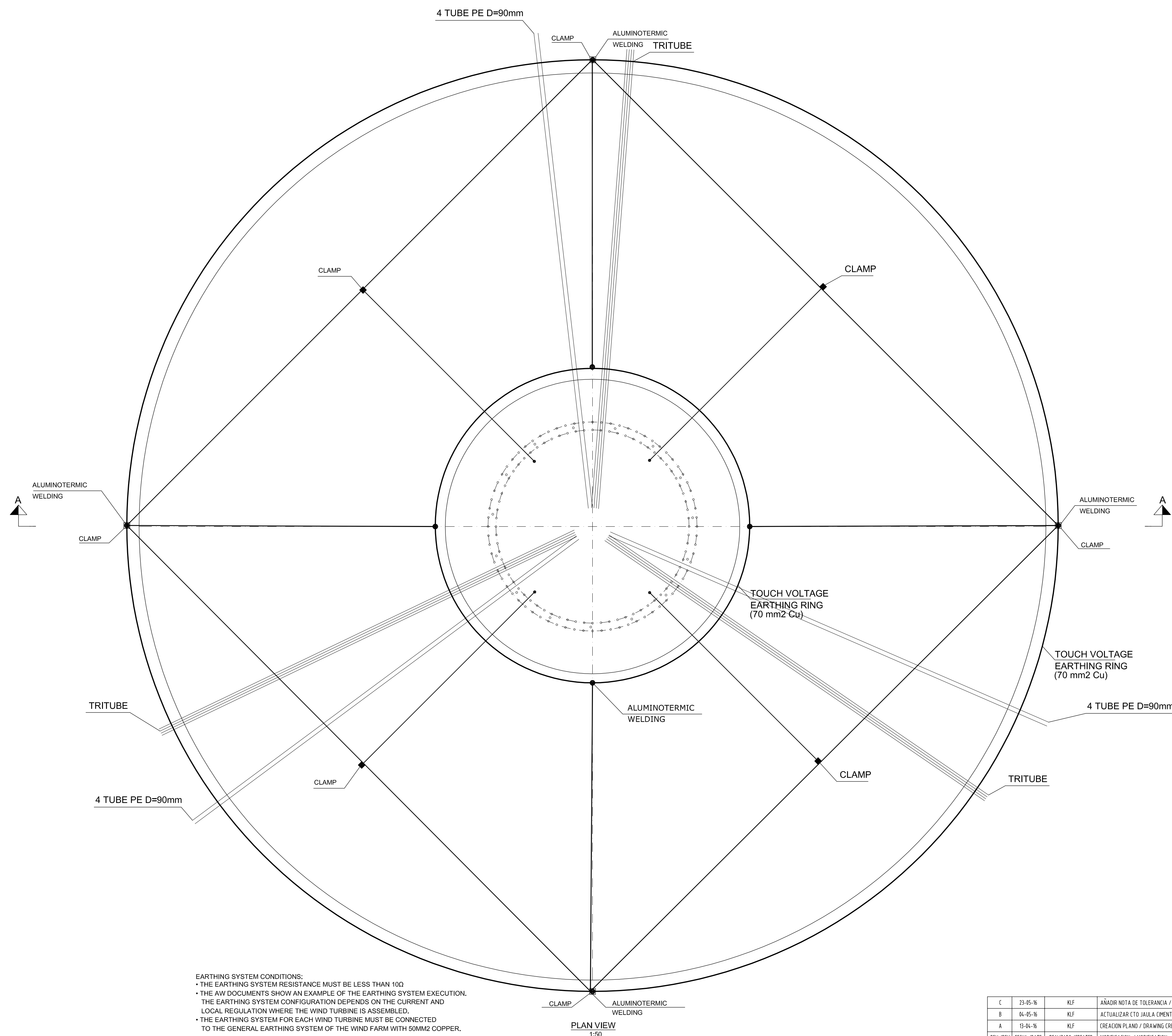
SLAB: C30/37 (fck = 30MPa cylinder test)
PEDESTAL: C40/50 (fck = 40MPa cylinder test)
MAXIMUM SIZE OF COARSE AGGREGATE: 15mm
CONSISTENCE: 100-150mm
EXPOSURE CLASS: XC2
COVERING: 50mm

NOTES:
1- GROUND WATER LEVEL BELOW FOUNDATION BASE
2- PLACE SPACERS BELOW BOTTOM REINFORCEMENT
3- WELDING IS FORBIDDEN
4- SOIL BEARING RESISTANCE 300 kPa (SLS)

MATERIAL / MATERIAL		TOLERANCIAS GENERALES / GENERAL TOLERANCES		PESO / WEIGHT (kg)	
<div> <div> DELLADO DRAWN </div> <div> </div> </div>		<div> <div> COMPROBADO CHECKED </div> <div> </div> </div>		<div> <div> APROBADO APPROVED </div> <div> </div> </div>	
<div> <div> NOMBRE NAME </div> <div> </div> </div>		<div> <div> FECHA DATE </div> <div> 23-05-2016 </div> </div>		<div> <div> </div> </div>	
<div> <div> ESCALA / SCALE </div> <div> 1:20 1/50 </div> </div>		<div> <div> DENOMINACION </div> <div> EJEMPLO CIMENTACION AW3000 T87.5 V2 </div> </div>		<div> <div> PLANO N° / DRAWING N° </div> <div> DG200624 </div> </div>	
<div> <div> NAME </div> <div> FOUNDATION EXAMPLE AW3000 T87.5 V2 </div> </div>		<div> <div> REVISION / REVIS </div> <div> C </div> </div>		<div> <div> HOJA N° / SHEET N° </div> <div> 4-4 </div> </div>	
<div> <div> FORMATO / FORMAT </div> <div> A1 </div> </div>		<div> <div> FORMATO / FORMAT </div> <div> A1 </div> </div>		<div> <div> FORMATO / FORMAT </div> <div> A1 </div> </div>	

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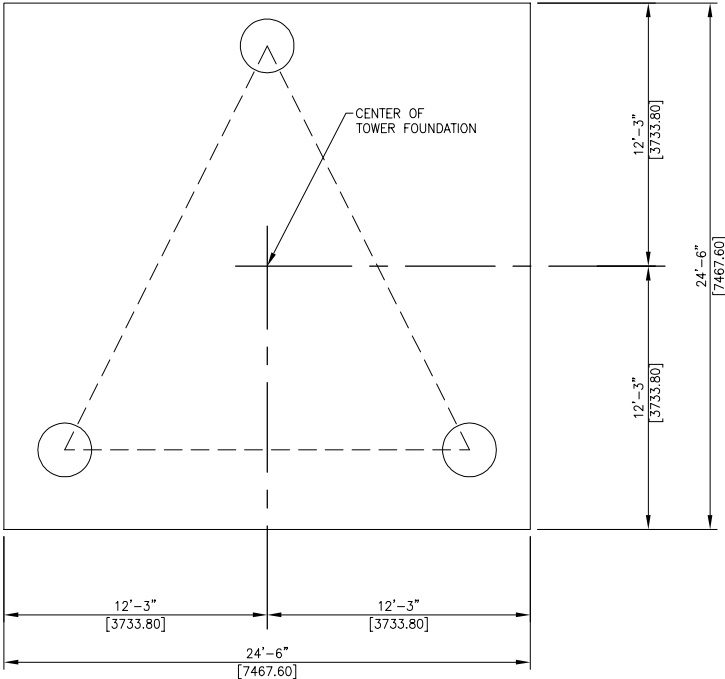
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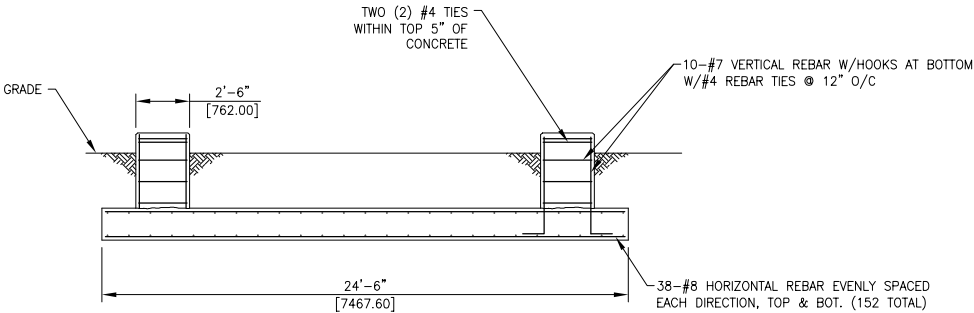
C	23-05-16	KLF	AÑADIR NOTA DE TOLERANCIA / TOLERANCE REMARK ADDED
B	04-05-16	KLF	ACTUALIZAR CTO JAULA CIMENTACION / FOUNDATION CAGE ASSEMBLY UPDATED
A	13-04-16	KLF	CREACION PLANO / DRAWING CREATION
REV/REV	FECHA/DATE	REALIZADO/CREATED	MODIFICACION / MODIFICATION

Figure B-3. MET Tower Foundation Layout

220 FT MODEL S3TL SERIES HD SELF SUPPORTING TOWER AT
90 mph WIND + 0.5in ICE PER ANSI/TIA/EIA-222-F-1996
ANTENNA LOADING



PLAN VIEW



ELEVATION VIEW

(35.53 Cu. YDS)

NOTES:

1. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000psi, IN ACCORDANCE WITH ACI 318-05.
2. REBAR TO CONFIRM TO ASTM SPECIFICATION A615 GRADE 60.
3. ALL REBAR TO HAVE A MINIMUM OF 3" CORNER COVER.
4. ALL EXPOSED CONCRETE CORNERS TO BE CHAMFERED $\frac{3}{4}$ "

NOLIN HILLS WIND PROJECT

DRAWN	CHECK		ENG.	PROJ.	ISSUED FOR	DATE	REV

TYPICAL MET TOWER
FOUNDATION

DRAWING NO.

NF00-6100-51-0001-0001

REV.

0



ATTACHMENT 3. TAX LOT IDS OF UMATILLA COUNTY LANDOWNERS

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Table F-1. Property Owners within 500 feet of the Proposed Project Site Boundary (Data Obtained August 28, 2017)

Map Tax Lot	First Name	Last Name	Name 2	Company/Organization	C/O-Attn.	Address	City	STATE	ZIP
1N29000000100				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
1N29000000300				SHIRLEY SNOW FAMILY TRUST ET AL	SNOW H RICHARD	33263 OREGON TRAIL RD	ECHO	OR	97826-9000
1N29000000308				SHIRLEY SNOW FAMILY TRUST ET AL	SNOW H RICHARD	33263 OREGON TRAIL RD	ECHO	OR	97826-9000
1N29000000500				PENDLETON RANCHES INC		PO BOX 1186	PENDLETON	OR	97801
1N29000000700	MARILYN	SCHILLER				69958 SCHILLER DR	ECHO	OR	97826-9044
1N29000000800				CUNNUNGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
1N29000001300				OWEN LESLIE R & OWEN LESLIE R (TRS)		PO BOX R	PILOT ROCK	OR	97868
1N30000000100	MICHAEL A	BECKER	VICKI L			PO BOX 1159	LA GRANDE	OR	97850
1N30000000200				CLARK EVERT F & DOROTHY (TRS)		5625 SW 40TH AVE	PORTLAND	OR	97221
1N30000000200A1				BRUTON BROADCASTING LLC		1600 GRAY LYNN DR	WALLA WALLA	WA	99362
1N30000000200A2				OEPBS	(KRBM BROADCAST FACILITY)	5625 SW 40TH AVE	PORTLAND	OR	97221
1N30000000201				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
1N30000000300				MUD SPRINGS RANCHES	C/O PENDLETON RANCHES	PO BOX 1186	PENDLETON	OR	97801
1N30000000400				PENDLETON RANCHES INC		PO BOX 1186	PENDLETON	OR	97801
1N30000000401				HOKE RANCHES		PO BOX 1186	PENDLETON	OR	97801
1N30000000500				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
1N30000000600	DONNA M	ANDERSON				PO BOX 449	HELIX	OR	97835-0449
1N30000000601	DONNA M	ANDERSON				PO BOX 449	HELIX	OR	97835-0449
1N30000000602	DONNA M	ANDERSON				PO BOX 449	HELIX	OR	97835-0449
1N30000000700U1				BUTTKE RANCH PARTNERSHIP 4/6	C/O KIRKHAM STELLA ETAL 2/6	412 SW 17TH ST	PENDLETON	OR	97801
1N30000000700U2				MCINTEE FAM REV LIVING TRUST 1/6 ETAL 5/6	C/O KIRKHAM STELLA	412 SW 17TH ST	PENDLETON	OR	97801
1N30000000700U3				KIRKHAM S H ETAL 1/6 ETAL 5/6	C/O KIRKHAM STELLA/BUTTKE RANCH	412 SW 17TH ST	PENDLETON	OR	97801
1N30000000800U1				KIRKHAM STELLA 1/2 ETAL 1/2		412 SW 17TH ST	PENDLETON	OR	97801
1N30000000800U2				CADBY MARY E & PAT L (TRS) 1/2 ETAL 1/2		618 N CRESTVIEW DR	MOSES LAKE	WA	98837
1N30000000900				COHO INC		PO BOX 449	HELIX	OR	97835-0449
1N30000000901				COHO INC	DADO LLC (AGT)	PO BOX 449	HELIX	OR	97835-0449
1N30000000902				COHO INC	LUCK INC (AGT)	PO BOX 449	HELIX	OR	97835-0449
1N30000001001				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
1N30000001002	NORMA J	WELLS	BUD			PO BOX 449	HELIX	OR	97835-0449
1N30000001090	NORMA J	WELLS			WELLS BUD	PO BOX 449	HELIX	OR	97835-0449
1N30000001100				PENDLETON RANCHES INC		PO BOX 1186	PENDLETON	OR	97801
1N30000001200	NORMA J	WELLS			WELLS BUD	PO BOX 449	HELIX	OR	97835-0449
1N30000001800				HOKE RANCHES		PO BOX 1186	PENDLETON	OR	97801
1N30000001900				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
1N30000002000				WIDNER PATRICIA A ET AL		PO BOX M	PILOT ROCK	OR	97868-0200

Table F-1. Property Owners within 500 feet of the Proposed Project Site Boundary (Data Obtained August 28, 2017)

Map Tax Lot	First Name	Last Name	Name 2	Company/Organization	C/O-Attn.	Address	City	STATE	ZIP
1N31000000900	MICHAEL A	BECKER	VICKI L			PO BOX 1159	LA GRANDE	OR	97850
1N31000001000				CLARK EVERT F & DOROTHY (TRS)		5625 SW 40TH AVE	PORTLAND	OR	97221
1N31000001500				COHO INC		PO BOX 449	HELIX	OR	97835-0449
1S30000000400				WIDNER PATRICIA A ET AL		PO BOX M	PILOT ROCK	OR	97868-0200
1S30000000500				WIDNER PATRICIA A ET AL		PO BOX M	PILOT ROCK	OR	97868-0200
1S30000001000	DANIEL ALBERT	OWEN				11445 185TH PL	RENTON	WA	98055-9330
2N29000000100	HERBERT C	BORK	NADENE			823 SW 2ND ST	PENDLETON	OR	97801-2906
2N29000000200				PENDLETON RANCHES INC		PO BOX 1186	PENDLETON	OR	97801
2N29000000300				MATILDA LLC & RAMOS JOSEPH F		PO BOX 188	ECHO	OR	97826-0188
2N29000000400				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
2N29000000500	LLOYD	PIERCY	LOIS			33927 RIVER VIEW DR	HERMISTON	OR	97838-7303
2N29000000600				SNOW H RICHARD 1/2 & (TRS) 1/2		33263 OREGON TRAIL RD	ECHO	OR	97826
2N29000000900				PENDLETON RANCHES INC		PO BOX 1186	PENDLETON	OR	97801
2N29000001000				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
2N29000001100				SHIRLEY SNOW FAMILY TRUST ET AL	SNOW H RICHARD	33263 OREGON TRAIL RD	ECHO	OR	97826-9000
2N29000001200	AMANDA	WEINKE				43691 WHITE EAGLE RD	PENDLETON	OR	97801
2N29000001201	ADOLF H	WEINKE	MARK K			PO BOX 547	PILOT ROCK	OR	97868
2N29000001202	AMANDA	DUMOND				43691 WHITE EAGLE RD	PENDLETON	OR	97801
2N29000001203				ALBEE KURT J ET AL		33765 SW TV HIGHWAY	HILLSBORO	OR	97123-5460
2N29000001300				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
2N29000001400				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
2N30000002800				PENDLETON RANCHES INC		PO BOX 1186	PENDLETON	OR	97801
2N30000003300				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
2N30000003301				MUD SPRINGS RANCHES	C/O PENDLETON RANCHES INC	PO BOX 1186	PENDLETON	OR	97801
2N30000003400				PENDLETON RANCHES INC		PO BOX 1186	PENDLETON	OR	97801
2N30000003501	MICHAEL A	BECKER	VICKI L			PO BOX 1159	LA GRANDE	OR	97850
2N30000003900				MUD SPRINGS RANCHES	C/O PENDLETON RANCHES INC	PO BOX 1186	PENDLETON	OR	97801
2N30000004000				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
2N30000004100	HOMER W	PETERSON				PO BOX 449	HELIX	OR	97835-0449
2N30000004200				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
2N30000004300	HOMER W	PETERSON				PO BOX 449	HELIX	OR	97835-0449
2N30000004400	HOMER W	PETERSON				PO BOX 449	HELIX	OR	97835-0449
2N30000004500U1				BUTTKE RANCH PARTNERSHIP 4/6 ETAL 2/6	C/O KIRKHAM STELLA	412 SW 17TH ST	PENDLETON	OR	97801
2N30000004500U2				MCINTEE FAM REV LIVING TRUST 1/6 ETAL 5/6	C/O KIRKHAM STELLA	412 SW 17TH ST	PENDLETON	OR	97801
2N30000004500U3				KIRKHAM S H ETAL 1/6 ETAL 5/6	C/O KIRKHAM STELLA/BUTTKE RANCH	412 SW 17TH ST	PENDLETON	OR	97801

Table F-1. Property Owners within 500 feet of the Proposed Project Site Boundary (Data Obtained August 28, 2017)

Map Tax Lot	First Name	Last Name	Name 2	Company/Organization	C/O-Attn.	Address	City	STATE	ZIP
2N30000004600U1				BUTTKE RANCH PARTNERSHIP 4/6 ETAL 2/6		412 SW 17TH ST	PENDLETON	OR	97801-2651
2N30000004600U2				MCINTEE FAM REV LIVING TRUST 1/6 ETAL 5/6	C/O KIRKHAM STELLA	412 SW 17TH ST	PENDLETON	OR	97801
2N30000004600U3				KIRKHAM S H ETAL 1/6 ETAL 5/6	C/O KIRKHAM STELLA/BUTTKE RANCH	412 SW 17TH ST	PENDLETON	OR	97801
2N30000004700				PENDLETON RANCHES INC		PO BOX 1186	PENDLETON	OR	97801
2N30000004800U1				BUTTKE RANCH PARTNERSHIP 1/2 ETAL 1/2	C/O KIRKHAM STELLA	412 SW 17TH ST	PENDLETON	OR	97801
2N30000004800U2				MCINTEE FAM REV LIVING TRUST 1/6 ETAL 5/6	C/O KIRKHAM STELLA	412 SW 17TH ST	PENDLETON	OR	97801
2N30000004800U3				KIRKHAM S H ETAL 1/6 ETAL 5/6	C/O KIRKHAM STELLA/BUTTKE RANCH	412 SW 17TH ST	PENDLETON	OR	97801
2N30000004800U4				CARR ROBERT F 1/6 ETAL 5/6	C/O KIRKHAM STELLA	412 SW 17TH ST	PENDLETON	OR	97801
2N30120000100				B & G RESOURCES INC		1825 SE ST ANDREWS DR	PORTLAND	OR	97202
2N30120000300				B & G RESOURCES INC		1825 SE ST ANDREWS DR	PORTLAND	OR	97202
2N30120000301	MICHAEL A	BECKER	VICKI L			PO BOX 1159	LA GRANDE	OR	97850
2N30120000302				PENDLETON RANCHES INC		PO BOX 1186	PENDLETON	OR	97801
2N30A00001500	KENT S	BEEBE				15860 SW PEACHTREE DR	TIGARD	OR	97224
2N30A00001600				HOKE RANCHES		PO BOX 1186	PENDLETON	OR	97801
2N30A00001900	DELWYN	HENDRICKSON	SANDRA			37181 CUNNINGHAM RD	ECHO	OR	97826-9637
2N30A00001901				HENDRICKSON DELWYN & SANDRA ETAL		37181 CUNNINGHAM RD	ECHO	OR	97826-9637
2N30A00002000				HOKE RANCHES		PO BOX 1186	PENDLETON	OR	97801
2N30A00002200	MICHAEL A	BECKER	VICKI L			PO BOX 1159	LA GRANDE	OR	97850
2N30A00002300				PENDLETON RANCHES INC		PO BOX 1186	PENDLETON	OR	97801
2N30A00002400				MUD SPRINGS RANCHES	C/O PENDLETON RANCHES INC	PO BOX 1186	PENDLETON	OR	97801
2N30B00000400	HERBERT C	BORK	NADENE			823 SW 2ND ST	PENDLETON	OR	97801-2906
2N30B00000500	RICHARD M	LEVY				73761 MAC HOKE RD	ECHO	OR	97826-9640
2N30B00000600	PHILLIP	MARCUM				35725 CUNNINGHAM RD	ECHO	OR	97826-9641
2N30B00000700	CLAYTON M	BRISCOE				35773 CUNNINGHAM RD	ECHO	OR	97826
2N30B00000800				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
2N30B00000800A1				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
2N30B00001000				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
2N30B00001100				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
2N30B00001200				UMATILLA COUNTY OF		216 SE 4TH ST	PENDLETON	OR	97801-2692
2N30B00001300				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
2N30B00001400				CUNNINGHAM SHEEP COMPANY		PO BOX 1186	PENDLETON	OR	97801-0018
2N30B00001500				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
2N30B00001600				CHRISTENSEN LLOYD (ESTATE)		PO BOX 1186	PENDLETON	OR	97801
2N30B00002100	SYLVIA S	ARISTEQUI				36492 CUNNINGHAM RD	ECHO	OR	97826-9638
2N30B00002300	ANTHONY E	KOLESZAR				PO BOX 275	PULLMAN	WA	99163-0275

Table F-1. Property Owners within 500 feet of the Proposed Project Site Boundary (Data Obtained August 28, 2017)

Map Tax Lot	First Name	Last Name	Name 2	Company/Organization	C/O-Attn.	Address	City	STATE	ZIP
2N30B00002500U1				KIRKHAM STELLA 1/2 ETAL 1/2		412 SW 17TH ST	PENDLETON	OR	97801
2N30B00002500U2				CADBY MARY E & PAT L (TRS) 1/2 ETAL 1/2		618 N CRESTVIEW DR	MOSES LAKE	WA	98837
2N31000003500	HOMER W	PETERSON				PO BOX 449	HELIX	OR	97835-0449
3N29000009300	LLOYD	PIERCY	LOIS			33927 RIVER VIEW DR	HERMISTON	OR	97838-7303
3N29000010500				PENDLETON RANCHES INC		PO BOX 1186	PENDLETON	OR	97801
3N29000010600				HARRIS JOANNE R (TRS)		13429 HEREFORD LOOP	HEREFORD	OR	97837-8618
3N29000011200	HERBERT C	BORK	NADENE			823 SW 2ND ST	PENDLETON	OR	97801-2906
2N30000001600				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801
2N30A00001400	KENT S	BEEBE				15860 SW PEACHTREE DR	TIGARD	OR	97224-0995
2N30B00001700				MRT EXPLORATION CO	C/O UNION PACIFIC RR ATTN:TX DEPT	1400 DOUGLAS ST #STOP 1640	OMAHA	NE	68179-1001
2N30B00002400	YGNACIA P	ARISTEQUI	SYLVIA S			36492 CUNNINGHAM RD	ECHO	OR	97826
2N30B00002600				CUNNINGHAM SHEEP CO		PO BOX 1186	PENDLETON	OR	97801

Nolin Hills
Wind Power Project

Figure F-1 Index
Taxlots

UMATILLA COUNTY, OREGON

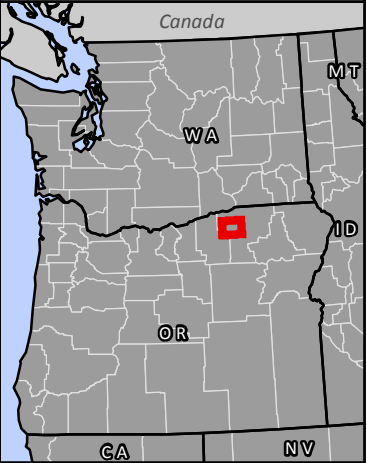
- Proposed Site Boundary
- County Boundary
- Interstate Highway
- Federal Highway
- State Highway
- Figure Index
- Umatilla County Tax Lot Boundary



Data Sources

Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads, Cities
Umatilla County - Tax Lots

Reference Map



Morrow
County
Umatilla
County

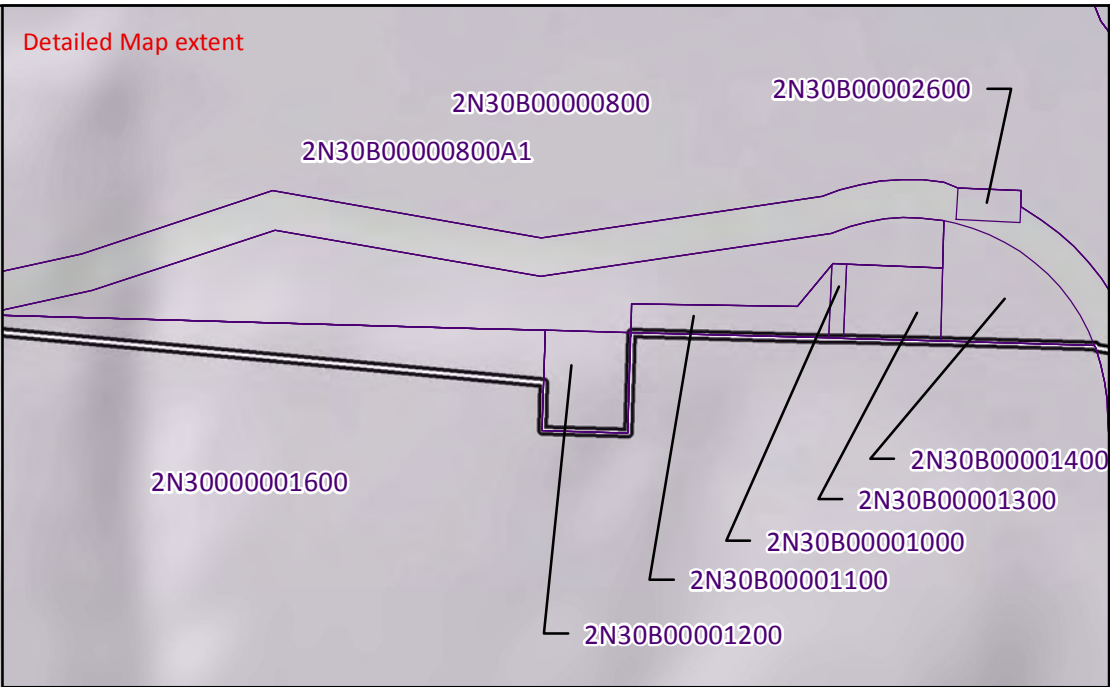
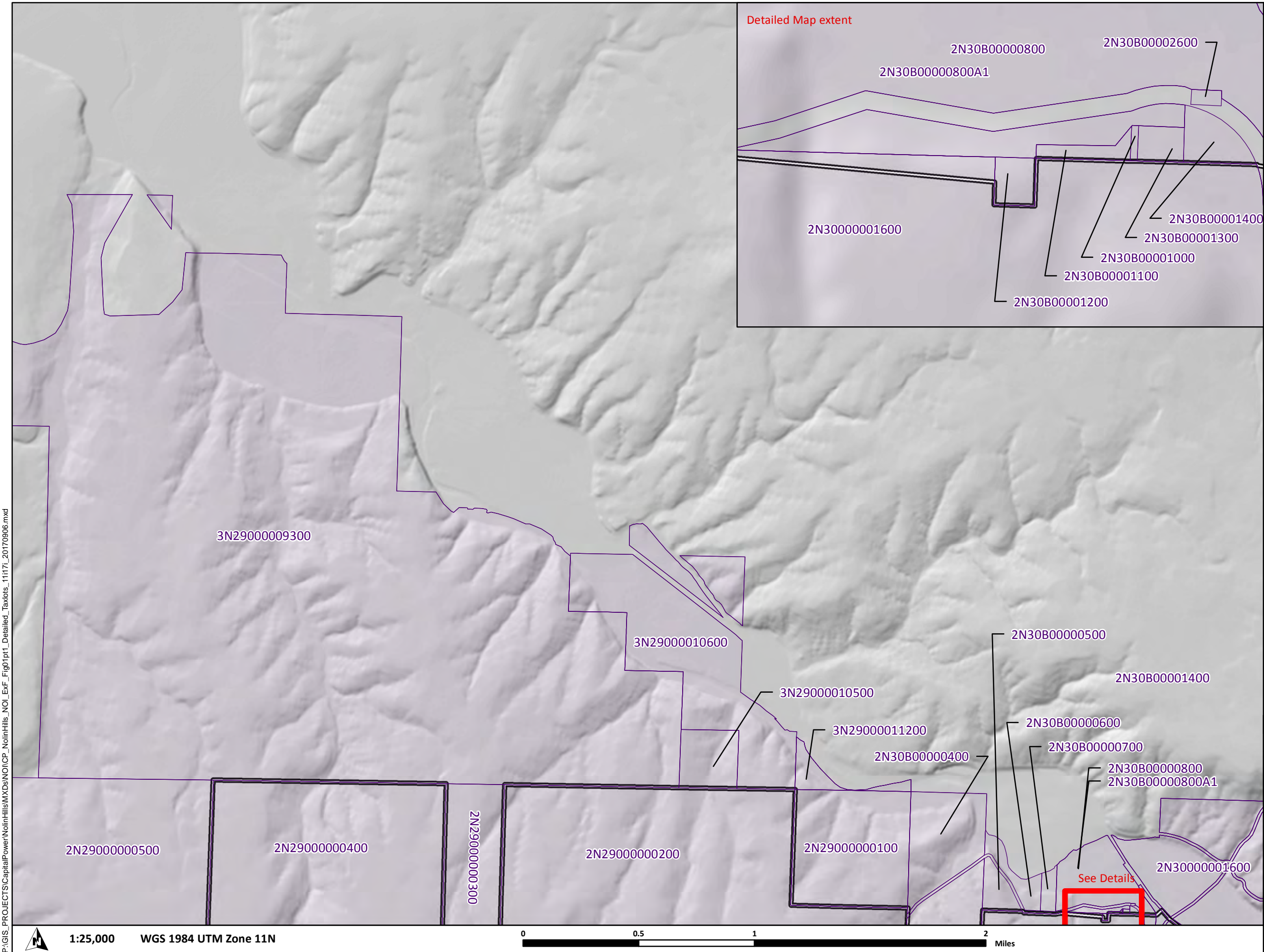


1:110,000 WGS 1984 UTM Zone 11N

0 0.5 1 2 3 4 Miles

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Nolin Hills Wind Power Project

Figure F-1.1
Taxlots

UMATILLA COUNTY, OREGON

- Proposed Site Boundary
- County Boundary
- Umatilla County Tax Lot Boundary



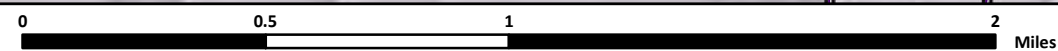
Data Sources

Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads, Cities
Umatilla County - Tax Lots

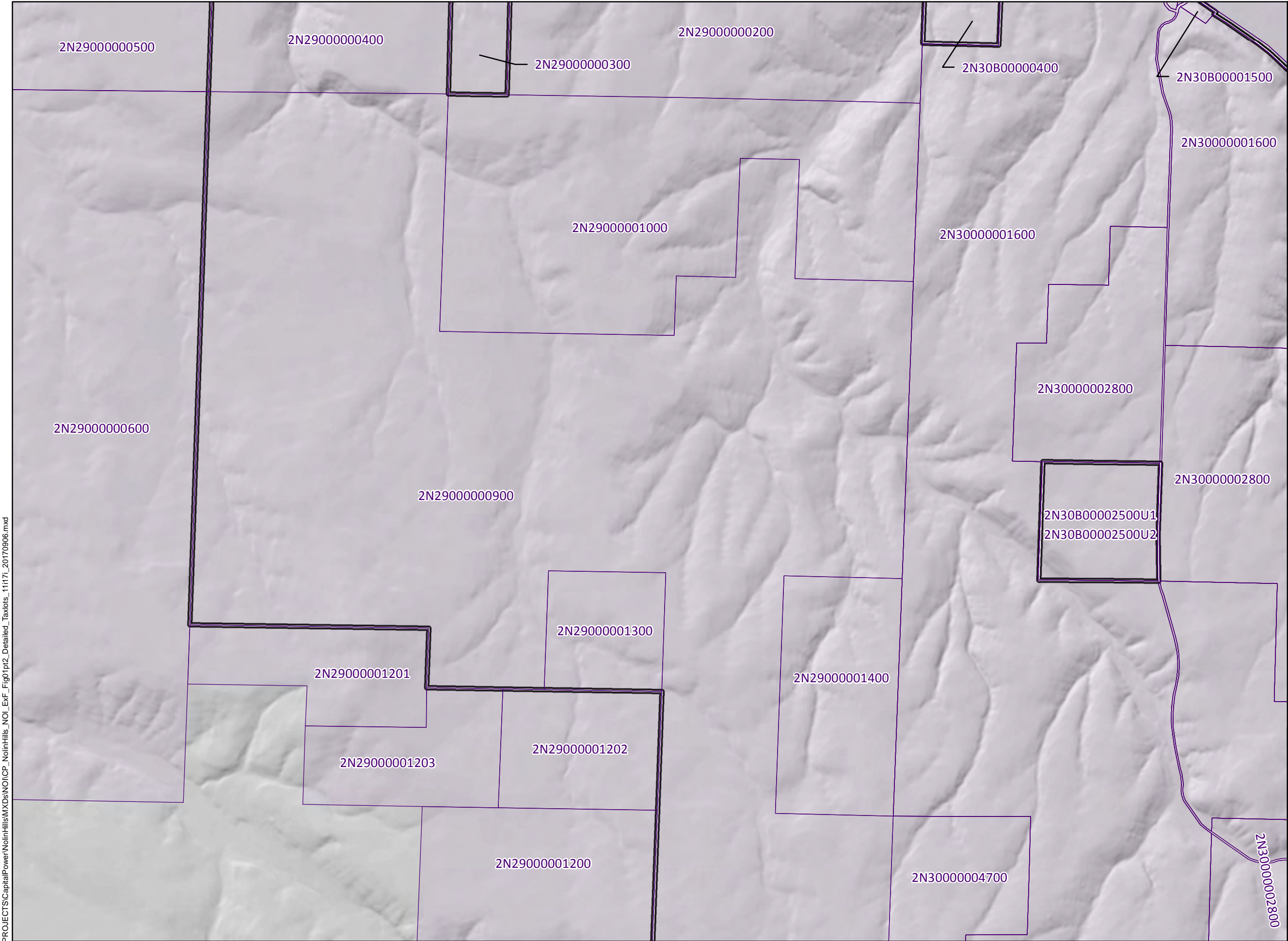
Reference Map



1:25,000 WGS 1984 UTM Zone 11N






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**Nolin Hills
Wind Power Project**

**Figure F-1.2
Taxlots**

UMATILLA COUNTY, OREGON

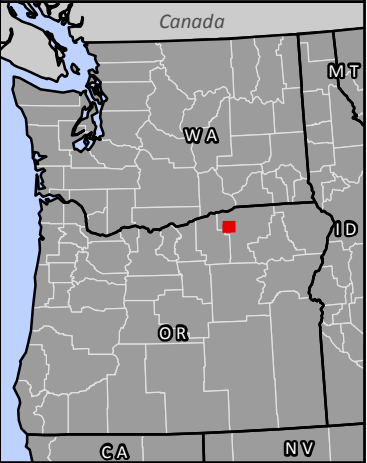
-  Proposed Site Boundary
-  County Boundary
-  Umatilla County Tax Lot Boundary



Data Sources

Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads, Cities
Umatilla County - Tax Lots

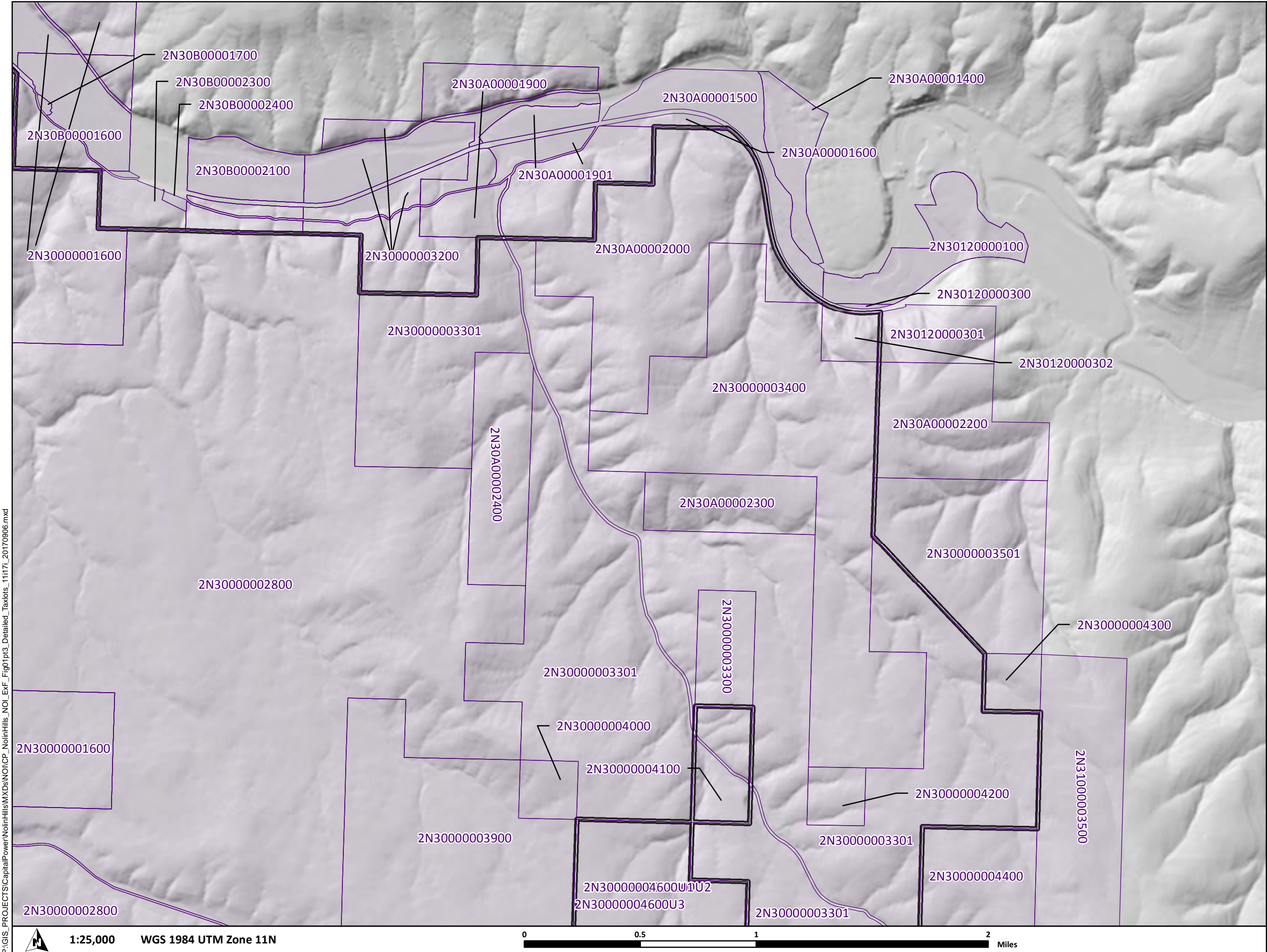
Reference Map



1:25,000 WGS 1984 UTM Zone 11N



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Nolin Hills Wind Power Project

Figure F-1.3
Taxlots

UMATILLA COUNTY, OREGON

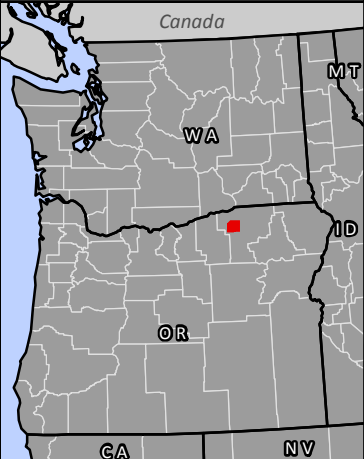
- Proposed Site Boundary
- County Boundary
- Umatilla County Tax Lot Boundary



Data Sources

Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads, Cities
Umatilla County - Tax Lots

Reference Map



1:25,000 WGS 1984 UTM Zone 11N

0 0.5 1 2 Miles




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**Nolin Hills
Wind Power Project**

**Figure F-1.4
Taxlots**

UMATILLA COUNTY, OREGON

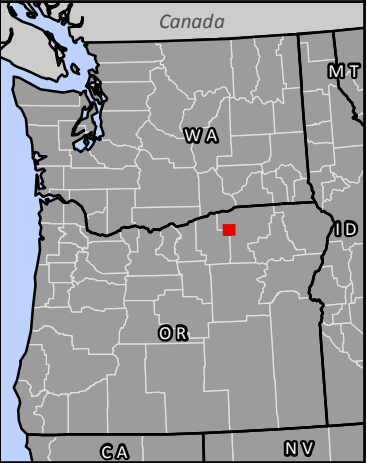
-  Proposed Site Boundary
-  County Boundary
-  Umatilla County Tax Lot Boundary



Data Sources

Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads, Cities
Umatilla County - Tax Lots

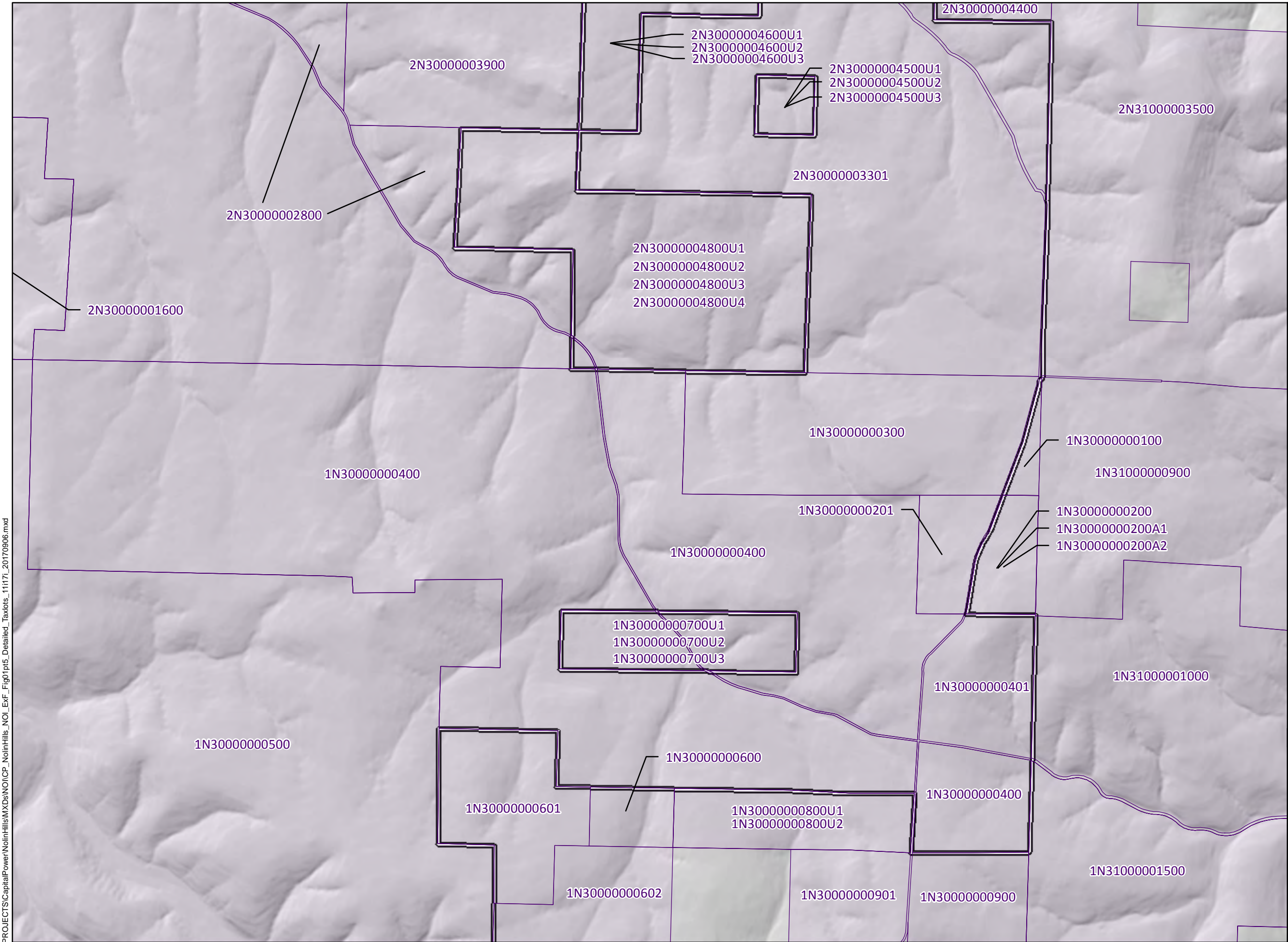
Reference Map



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Nolin Hills Wind Power Project

Figure F-1.5
Taxlots

UMATILLA COUNTY, OREGON

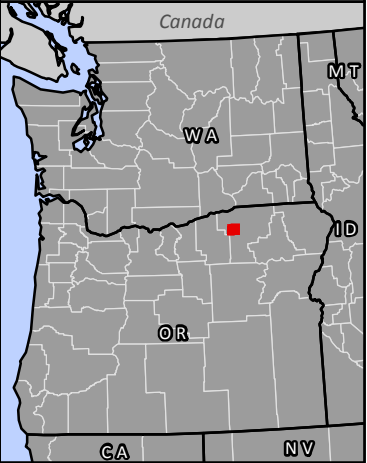
-  Proposed Site Boundary
-  County Boundary
-  Umatilla County Tax Lot Boundary



Data Sources

Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads, Cities
Umatilla County - Tax Lots

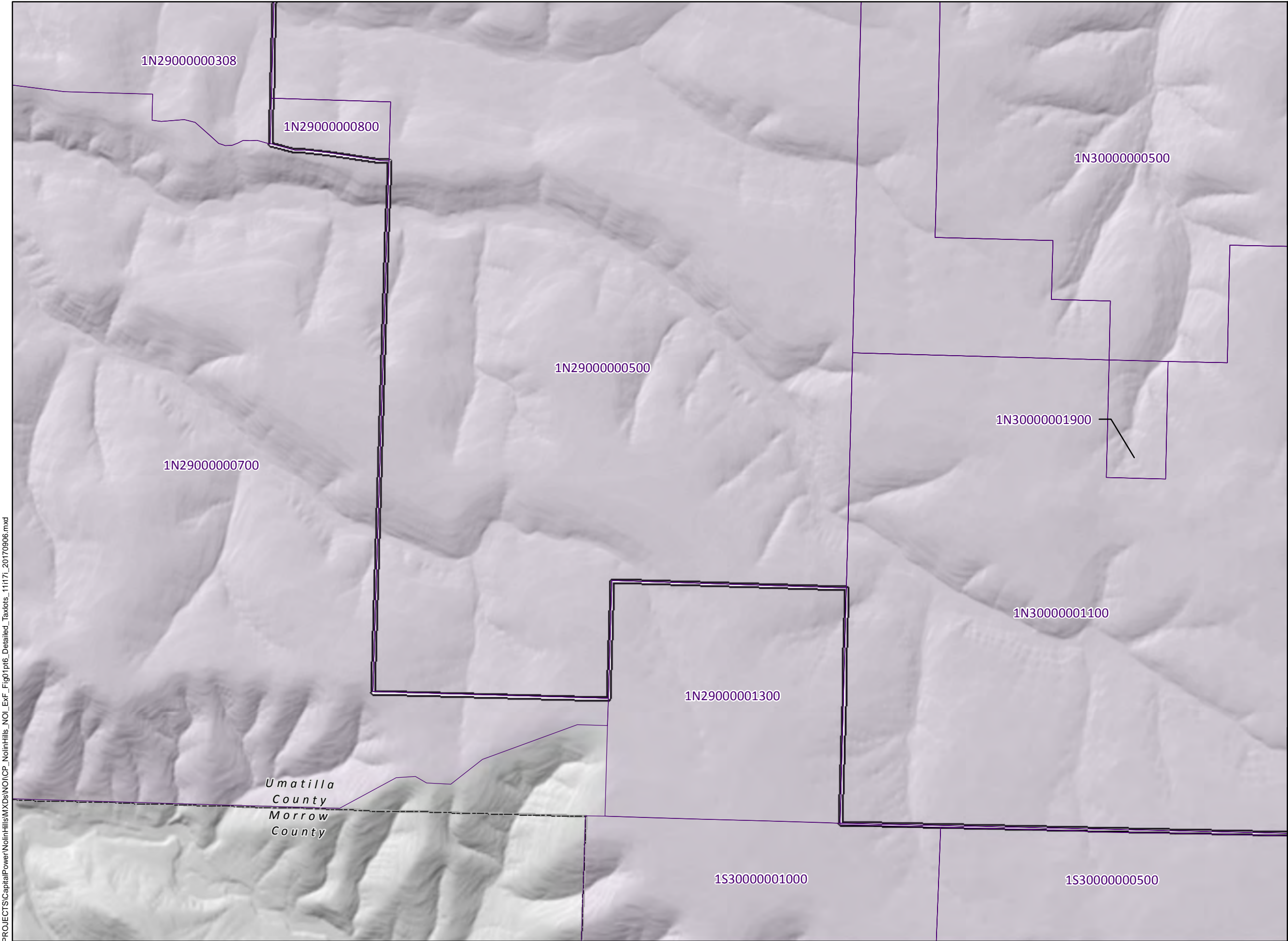
Reference Map



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**Nolin Hills
Wind Power Project**

**Figure F-1.6
Taxlots**

UMATILLA COUNTY, OREGON

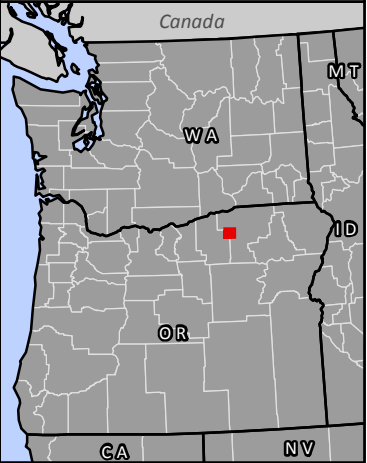
-  Proposed Site Boundary
-  County Boundary
-  Umatilla County Tax Lot Boundary



Data Sources

Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads, Cities
Umatilla County - Tax Lots

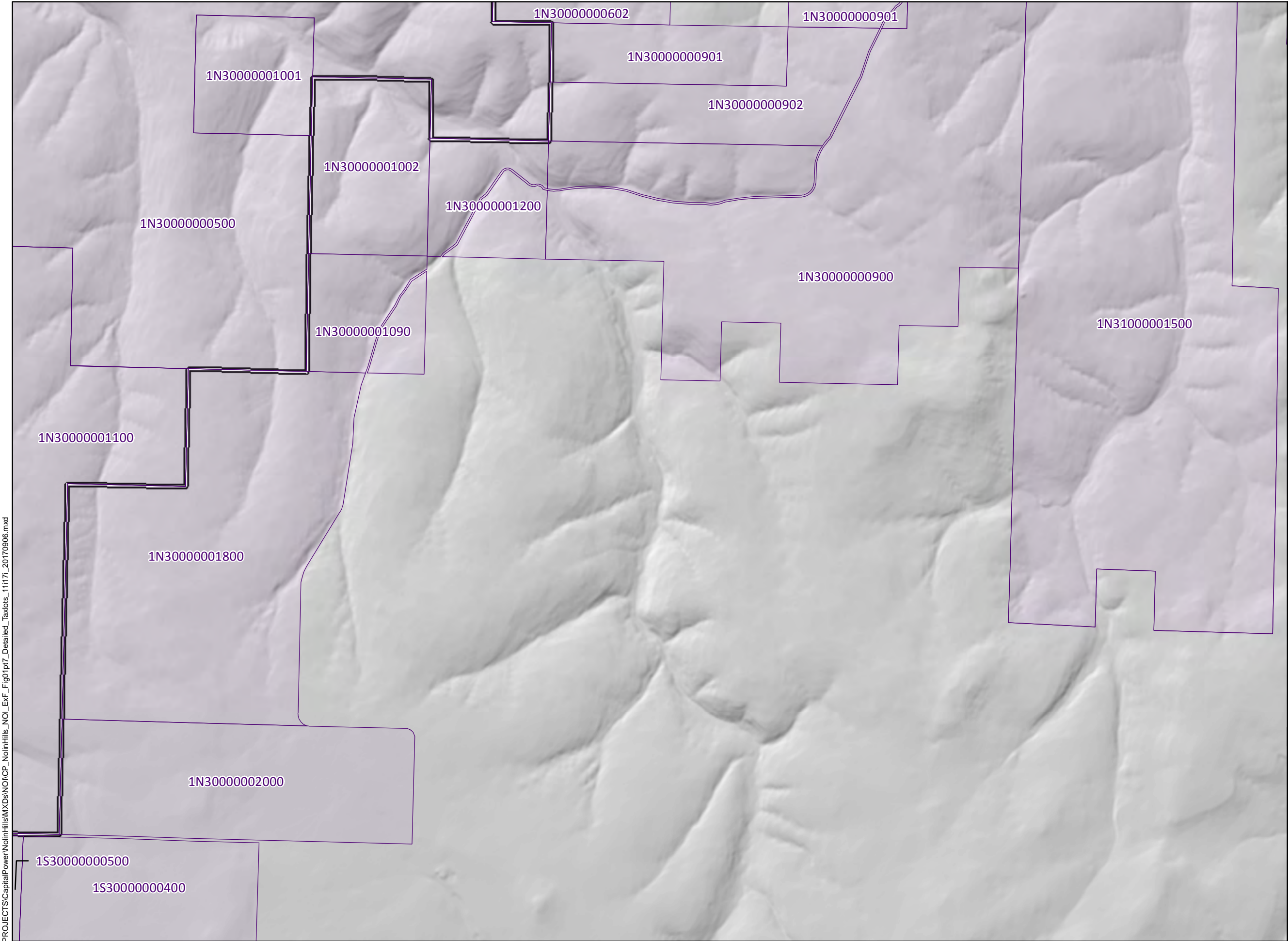
Reference Map



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**Nolin Hills
Wind Power Project**

**Figure F-1.7
Taxlots**

UMATILLA COUNTY, OREGON

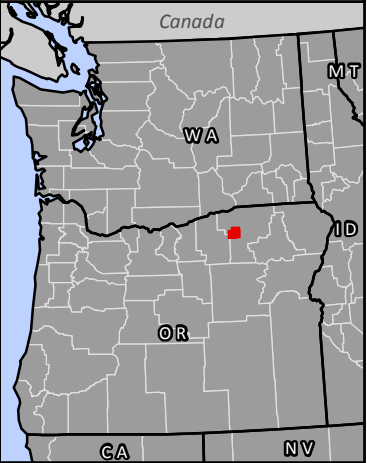
-  Proposed Site Boundary
-  County Boundary
-  Umatilla County Tax Lot Boundary



Data Sources

Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads, Cities
Umatilla County - Tax Lots

Reference Map

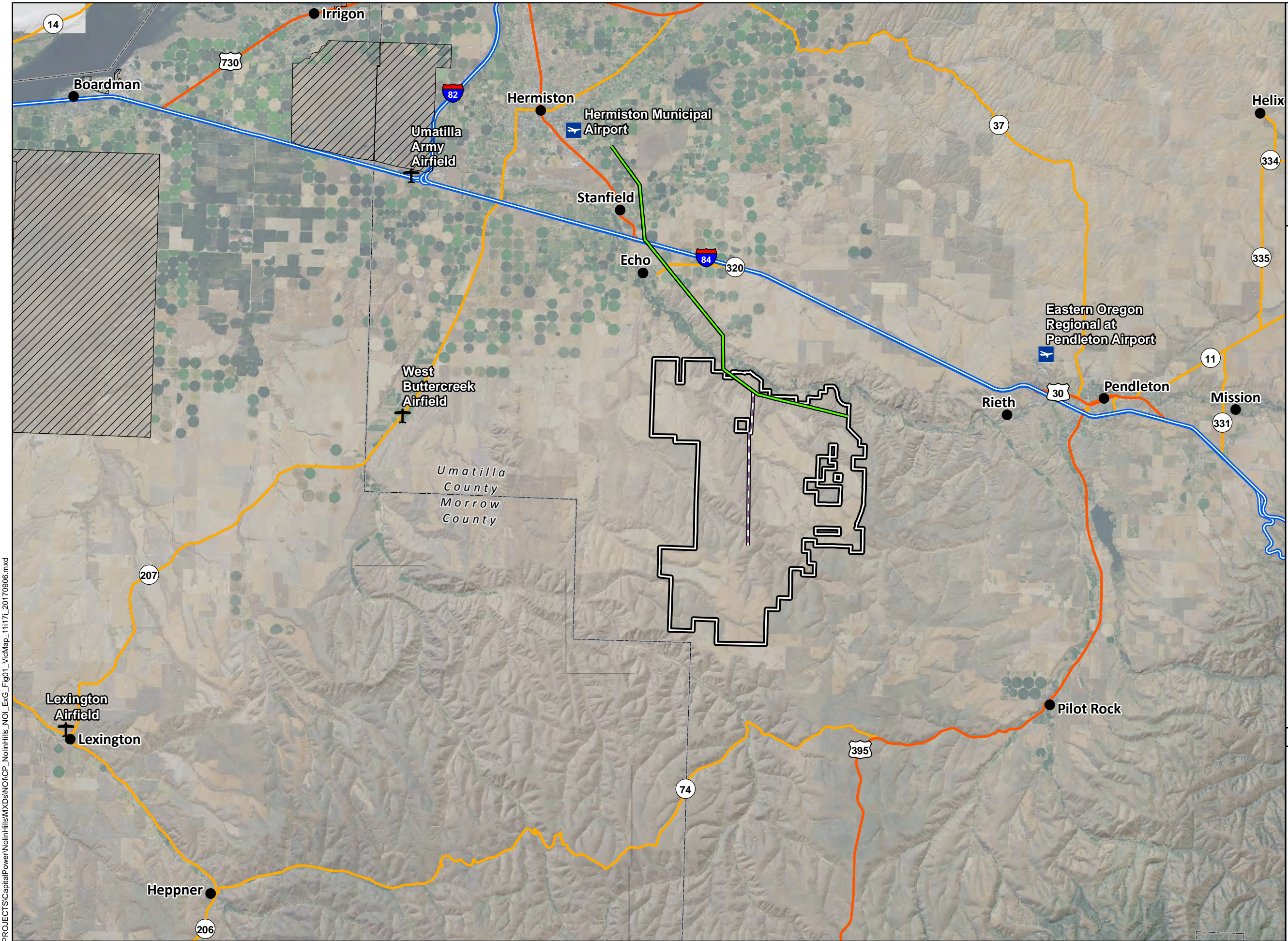


1:25,000 WGS 1984 UTM Zone 11N



ATTACHMENT 4. FIGURES REFERENCED IN EXHIBIT G – FACILITY LAYOUT

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**Nolin Hills
Wind Power Project**

**Figure G-1
Vicinity Map**

UMATILLA COUNTY, OREGON

- Proposed Site Boundary
- Existing Transmission Line
- Proposed Transmission Line
- County Boundary
- Interstate Highway
- Federal Highway
- State Highway
- Airport
- Landing Field
- Department of Defense



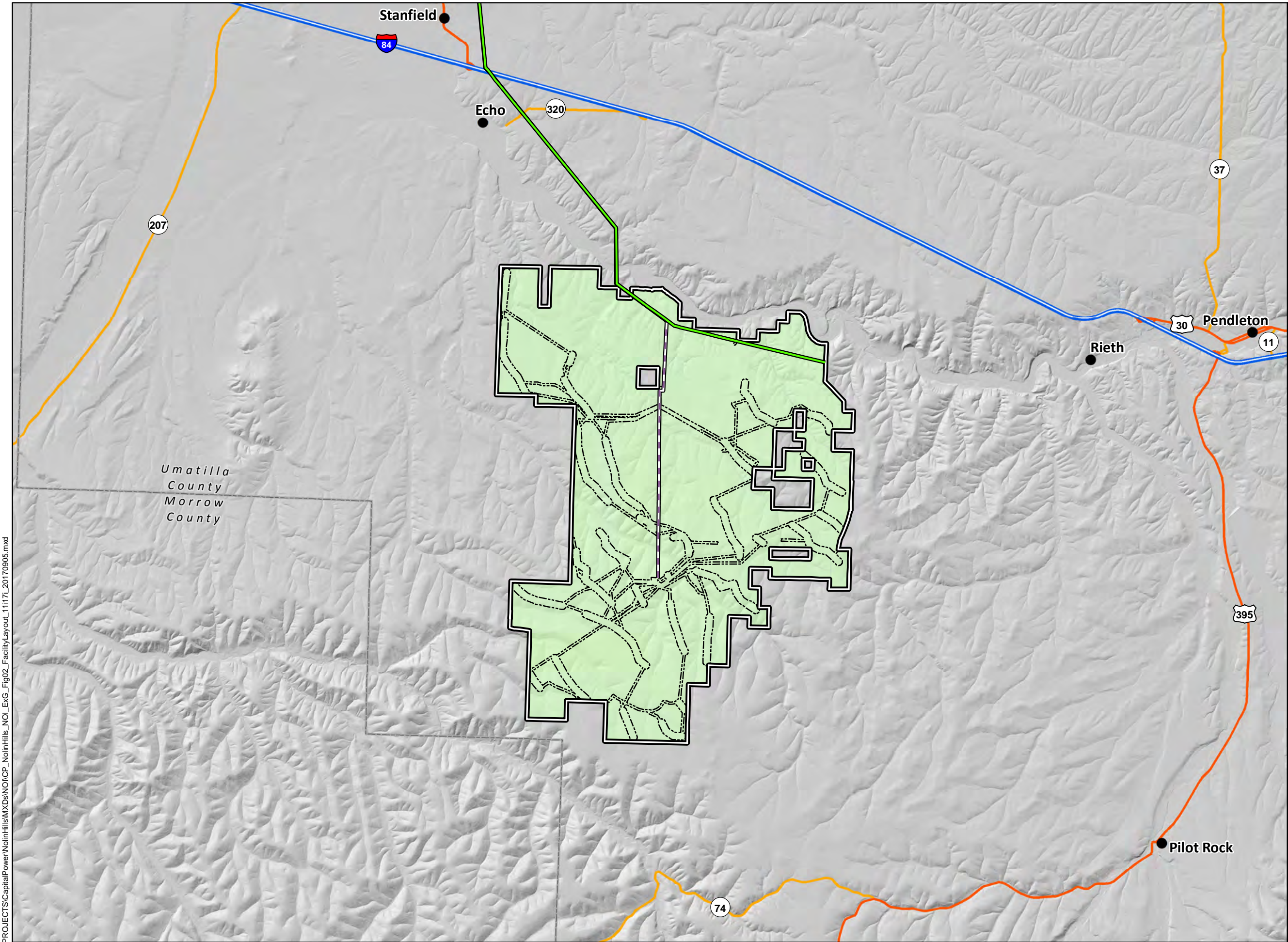
Data Sources

Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads, Cities, Airports
BLM-Ownership

Reference Map



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Nolin Hills Wind Power Project

Figure G-2
Facility Layout

UMATILLA COUNTY, OREGON

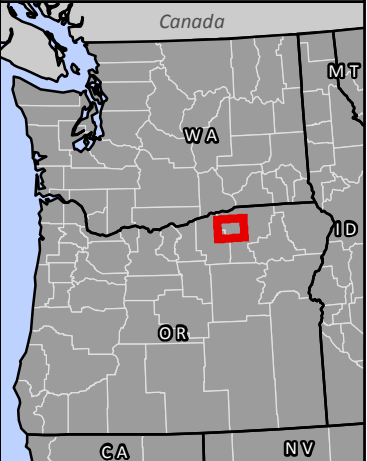
- Proposed Site Boundary
- Existing Transmission Line
- Proposed Transmission Line
- Interstate Highway
- Federal Highway
- State Highway
- County Boundary
- Micrositing Corridor
- Private Land



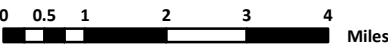
Data Sources

Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads, Cities
BLM-Ownership

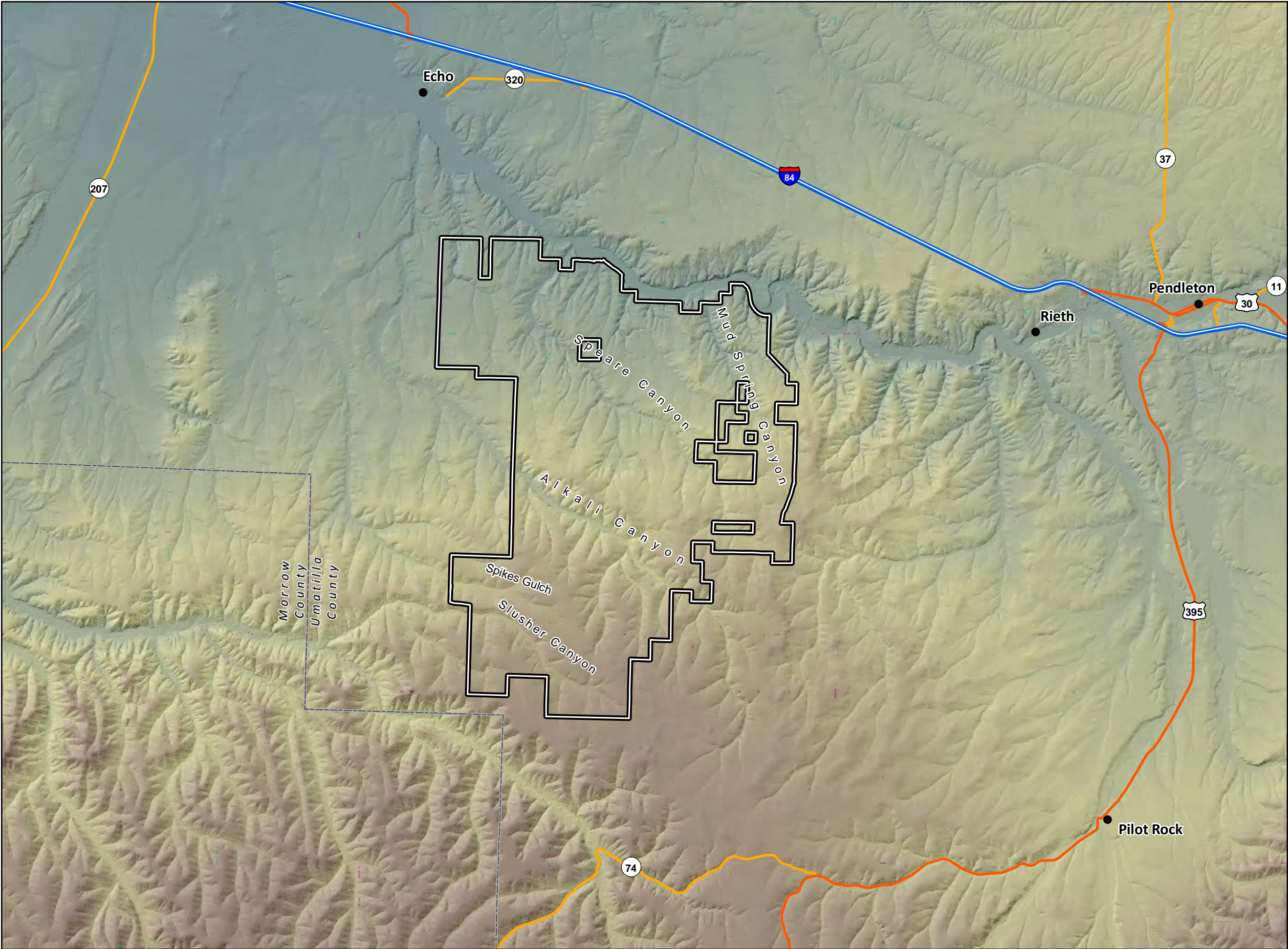
Reference Map



1:150,000 WGS 1984 UTM Zone 11N



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Nolin Hills Wind Power Project

Figure G-3
Topography

UMATILLA COUNTY, OREGON

- Proposed Site Boundary
- County Boundary
- Interstate Highway
- Federal Highway
- State Highway
- City/Town

Elevation (meters)
High : 982.3
Low : 171.7



Data Sources

Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads, Cities
USGS-DEM/Hillshade, GNIS

Reference Map




1:150,000 WGS 1984 UTM Zone 11N


0 0.5 1 2 3 4 Miles

Nolin Hills
Wind Power Project

Figure G-4
National Wetland Inventory


UMATILLA COUNTY, OREGON


 Proposed Site Boundary

 County Boundary

Wetland Type

 Freshwater Emergent Wetland

 Freshwater Forested/Shrub
Wetland

 Freshwater Pond

 Lake

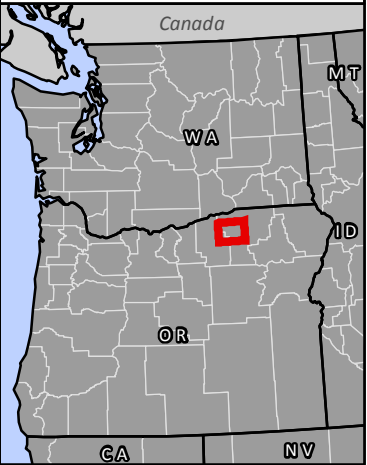
 Riverine



Data Sources

Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads
USFWS-Wetlands

Reference Map



Morrow
County
Umatilla
County

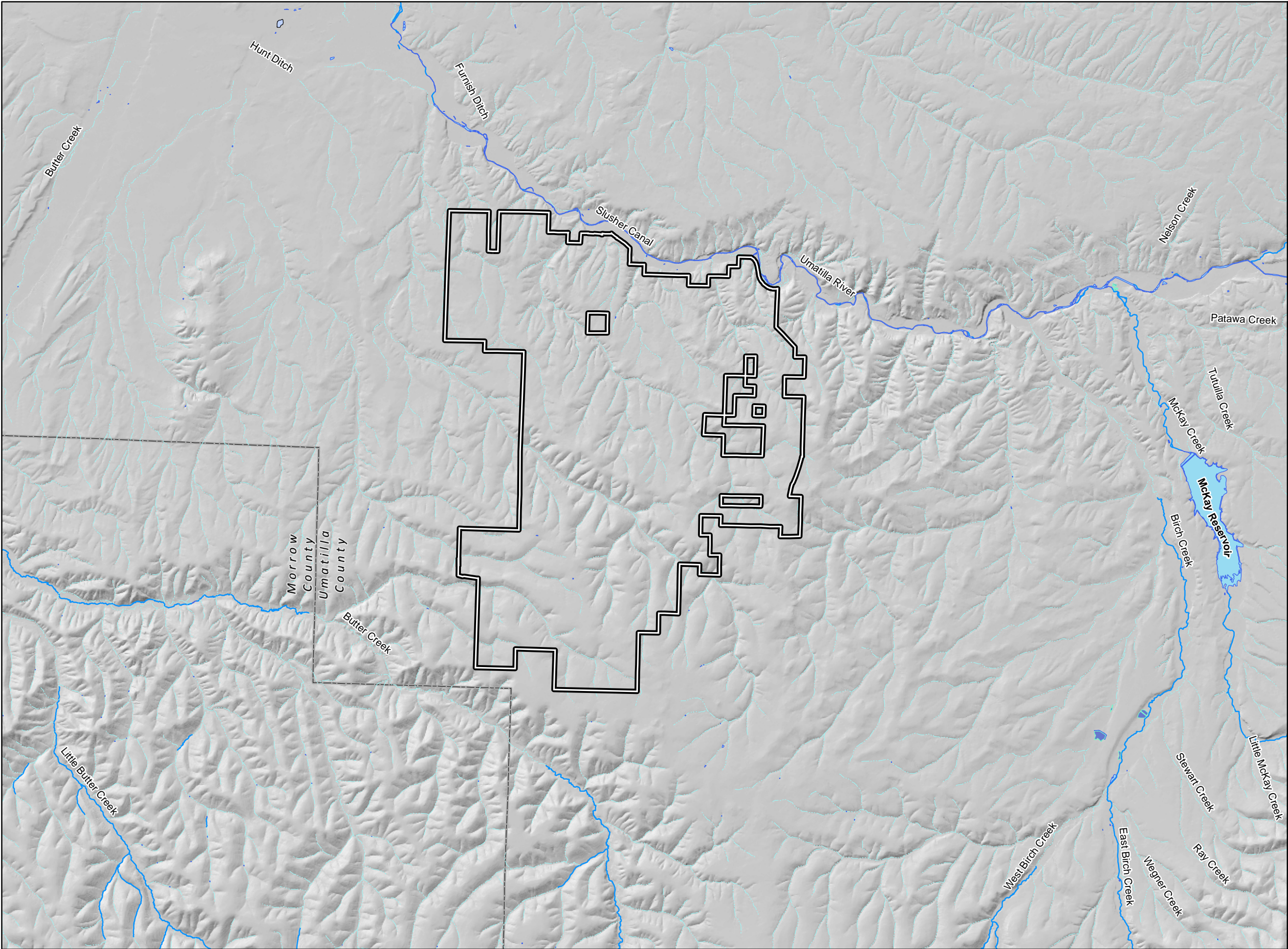


1:150,000 WGS 1984 UTM Zone 11N

0 0.5 1 2 3 4
Miles

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**Nolin Hills
Wind Power Project**

**Figure G-5
National Hydrography Dataset**

UMATILLA COUNTY, OREGON

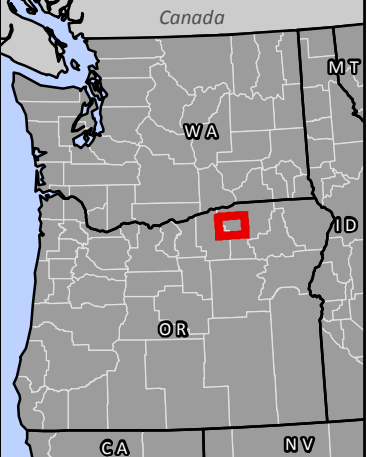
- Proposed Site Boundary
- County Boundary
- Lake/Pond
- Reservoir
- Swamp/Marsh
- Intermittent Stream/River
- Perennial Stream/River



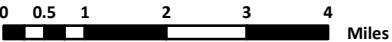
Data Sources

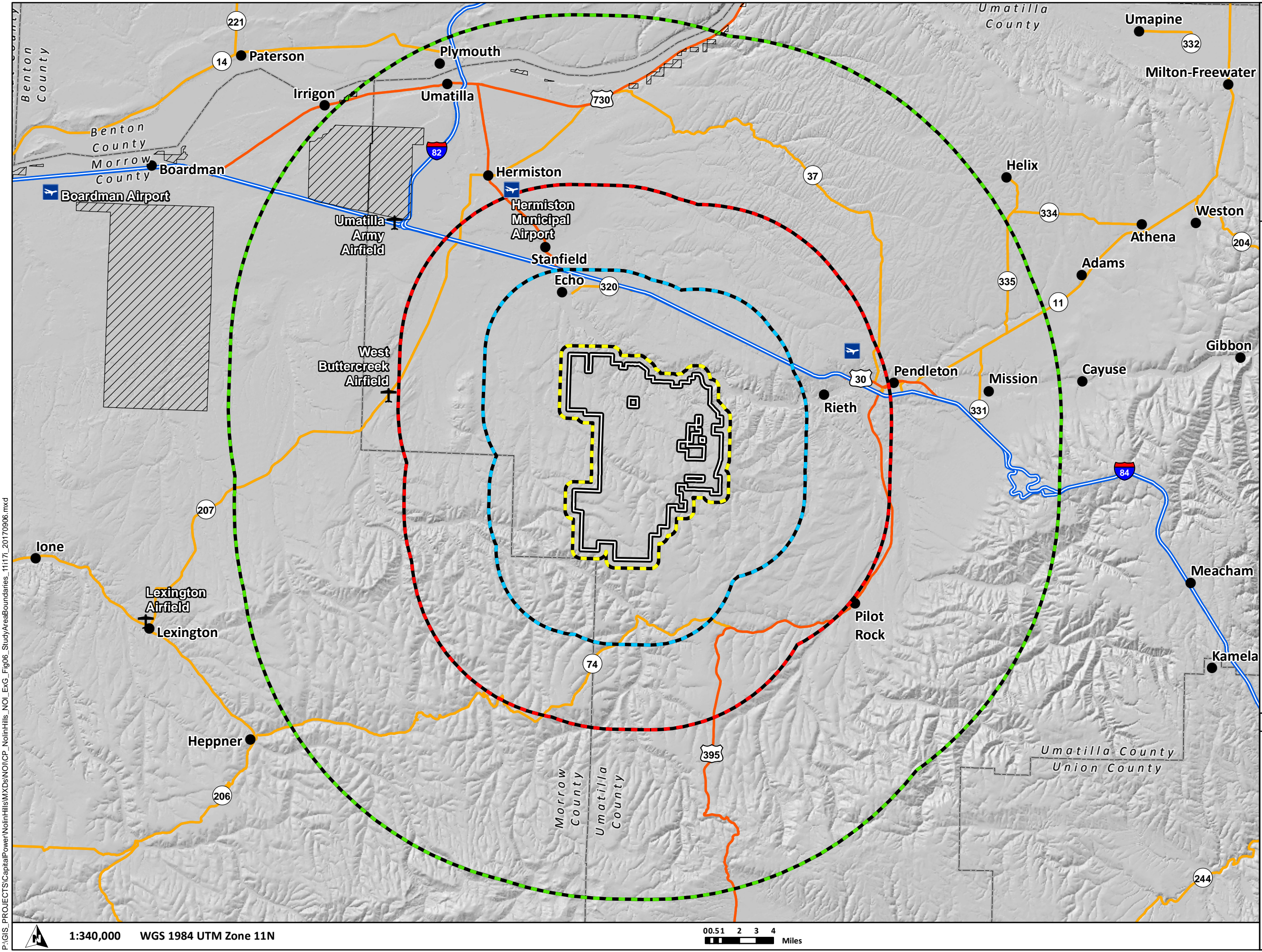
Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads
USGS-NHD

Reference Map



1:150,000 WGS 1984 UTM Zone 11N





**Nolin Hills
Wind Power Project**

**Figure G-6
Study Area Boundaries**

UMATILLA COUNTY, OREGON

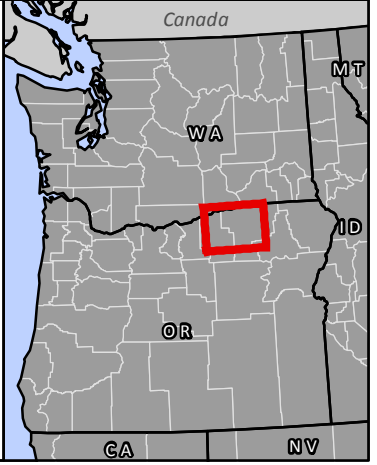
- Proposed Site Boundary
- County Boundary
- Interstate Highway
- Federal Highway
- State Highway
- Airport
- Landing Field
- Department of Defense
- Study Area**
- 0.5 miles, Land Use and Fish and Wildlife Habitat
- 5 miles, Recreation and Threatened and Endangered
- 10 miles, Scenic Resources and Public Services
- 20 miles, Protected Areas



Data Sources

Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads, Cities, Airports
BLM-Ownership

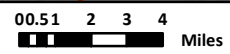
Reference Map



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1:340,000 WGS 1984 UTM Zone 11N



Nolin Hills
Wind Power Project

Figure G-7
Protected Areas

UMATILLA COUNTY, OREGON

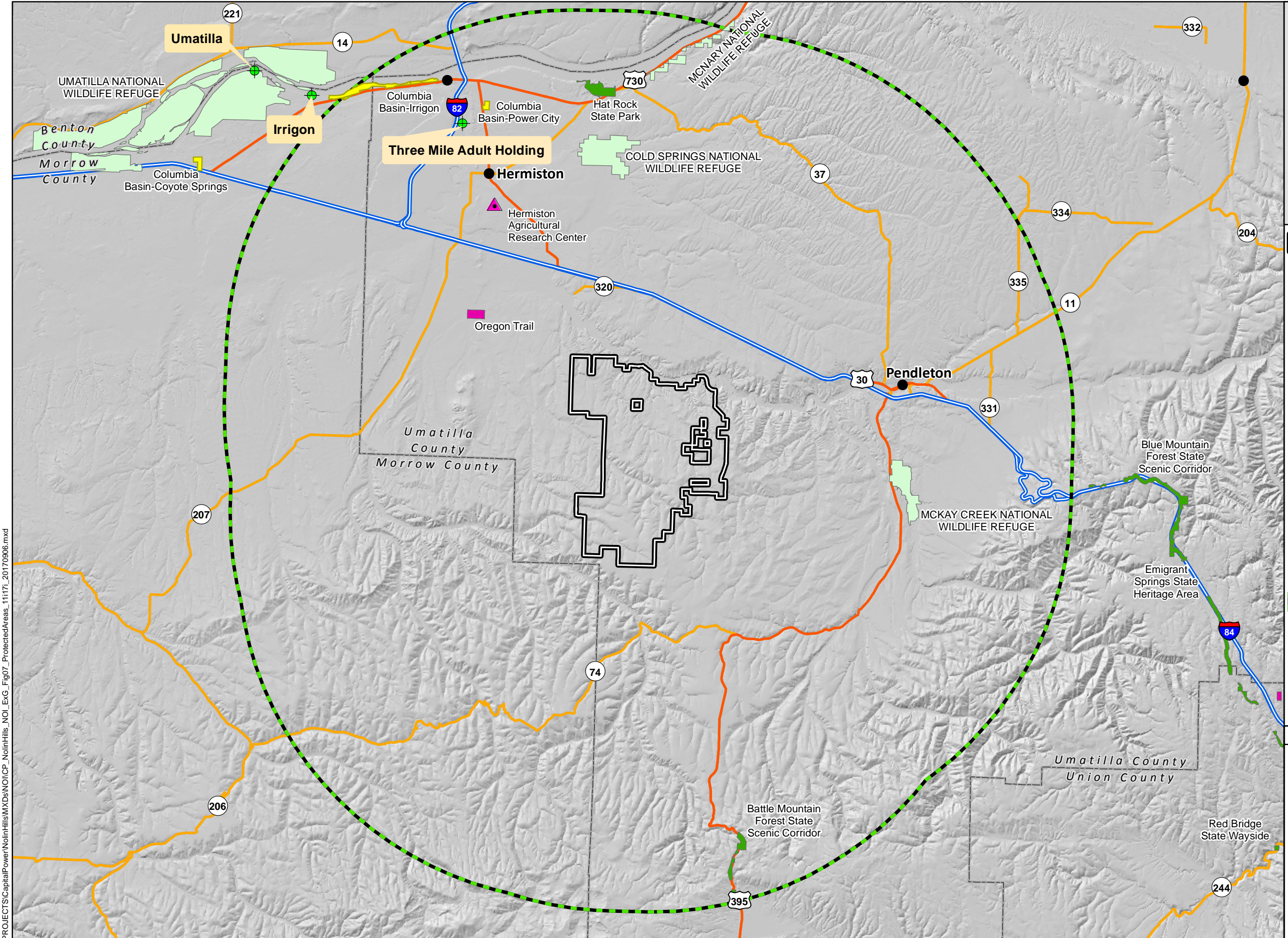
- Proposed Site Boundary
- County Boundary
- Interstate Highway
- Federal Highway
- State Highway
- Research Center (OSU)
- Fish Hatchery (ODFW)
- Oregon Parks and Recreation Department Site (OPRD)
- US Fish and Wildlife Service Refuge (USFWS)
- Oregon Department of Fish and Wildlife Wildlife Refuge (ODFW)
- Areas of Critical Environmental Concern (BLM)
- Study Area
- 20 miles



Data Sources

Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads, Cities

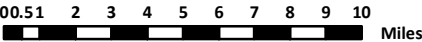
Reference Map



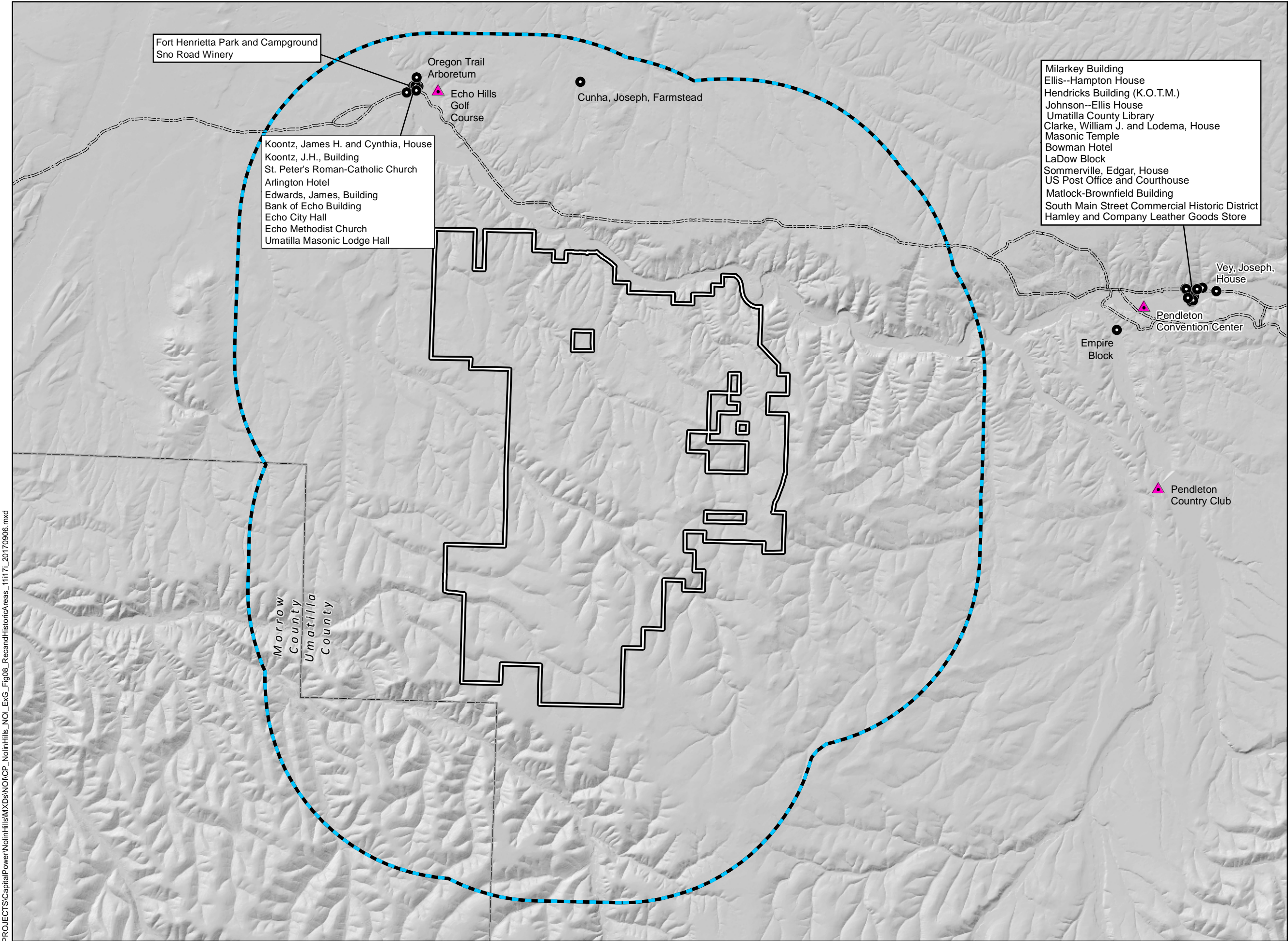
P:\GIS_PROJECTS\CapitalPower\NolinHills\MapDocs\NOTICP_NolinHills_NOI_Exg_Fig07_ProtectedAreas_111171_20170906.mxd



1:340,000 WGS 1984 UTM Zone 11N



P:\GIS_PROJECTS\CapitalPower\NolinHills\MXDs\NOI\CP_NolinHills_NOI_Ext_Fig08_RecandHistoricAreas_11171_20170906.mxd



Fort Henrietta Park and Campground
Sno Road Winery

Oregon Trail
Arboretum
Echo Hills
Golf Course

Cunha, Joseph, Farmstead

Koontz, James H. and Cynthia, House
Koontz, J.H., Building
St. Peter's Roman-Catholic Church
Arlington Hotel
Edwards, James, Building
Bank of Echo Building
Echo City Hall
Echo Methodist Church
Umatilla Masonic Lodge Hall

Milarkey Building
Ellis--Hampton House
Hendricks Building (K.O.T.M.)
Johnson--Ellis House
Umatilla County Library
Clarke, William J. and Lodema, House
Masonic Temple
Bowman Hotel
LaDow Block
Sommerville, Edgar, House
US Post Office and Courthouse
Matlock-Brownfield Building
South Main Street Commercial Historic District
Hamley and Company Leather Goods Store

Vey, Joseph,
House
Pendleton
Convention Center
Empire
Block

Pendleton
Country Club

Nolin Hills Wind Power Project

Figure G-8
Recreation and
Historic Areas

UMATILLA COUNTY, OREGON

- Proposed Site Boundary
- County Boundary
- Recreation Site
- National Register Historic Place
- Oregon Trail

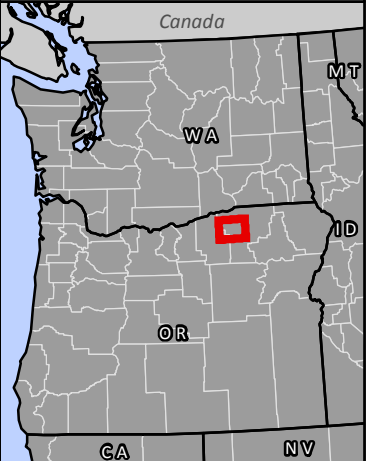
Study Area
 5 miles



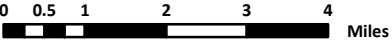
Data Sources

Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads
USDOL-NRHP; ArcGIS-Landmarks

Reference Map



1:150,000 WGS 1984 UTM Zone 11N



Nolin Hills
Wind Power Project

Figure G-9
Scenic Areas

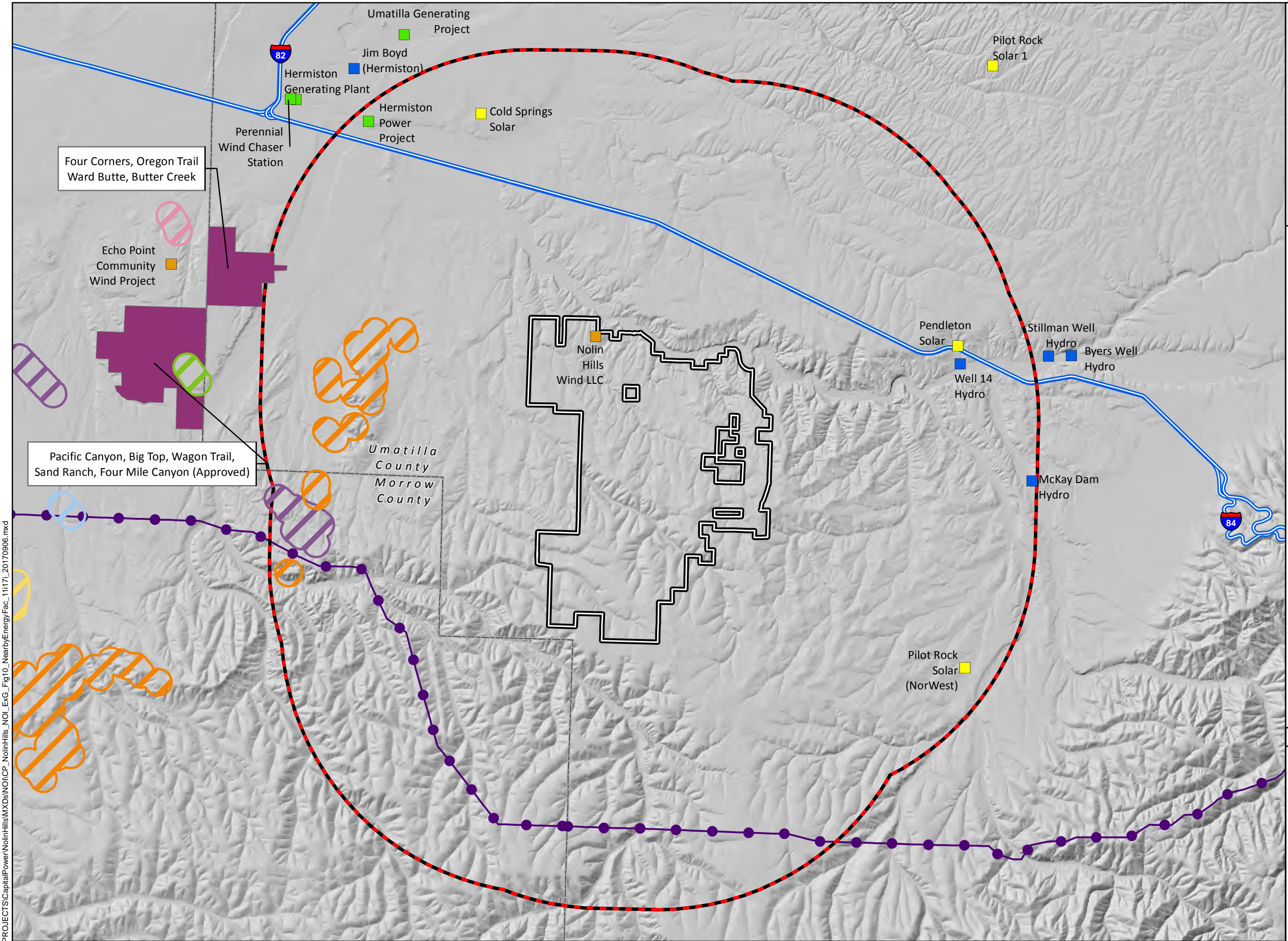
UMATILLA COUNTY, OREGON

- Proposed Site Boundary
 - Blue Mountain Scenic Byway
 - County Boundary
- Study Area**
10 miles



Data Sources	Reference Map
Capital Power-Project Infrastructure; USDA-Aerial Imagery; ESRI-Roads, Cities ODOT-Oregon Scenic Byways	

P:\GIS_PROJECTS\CapitalPower\NolinHills\MXDs\NOICP_NolinHills_NOI_ExG_Fig09_ScenicAreas_111171_20170906.mxd



**Nolin Hills
Wind Power Project**

**Figure G-10
Energy Facilities
within 10 Miles**

UMATILLA COUNTY, OREGON

- Proposed Site Boundary
- County Boundary
- Interstate Highway
- Study Area, 10 miles
- Proposed B2H Transmission Line
- Electrical Generating Plant
 - Natural Gas
 - Solar
 - Hydro
 - Wind
- Wind (operating)
 - Echo Windfarm
- Wind (in development)
 - High Plateau Windfarm
 - Lower Ridge Windfarm
 - Mariah Wind Farm
 - Mule Hollow Windfarm
 - Pine City Windfarm
 - Wheatridge Wind Energy Facility

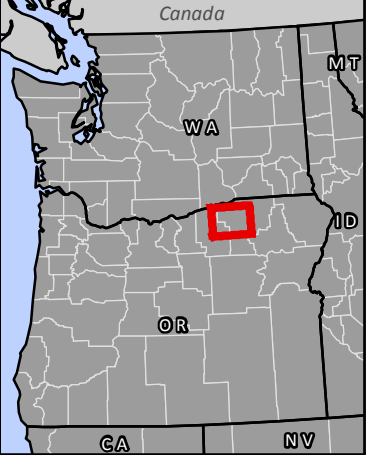
*Status from RNP.org



Data Sources

Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads, Cities
Ventyx-Energy Facilities, Wind Farms
Renewable Northwest Project-Wind Farms Status

Reference Map



P:\GIS_PROJECTS\CapitalPower\NolinHills\MXDs\NOLICP_NolinHills_NOL_ExG_Fig10_NearbyEnergyFac_11171_20170906.mxd



1:220,000 WGS 1984 UTM Zone 11N

0 0.5 1 2 3 4 Miles

ATTACHMENT 5. SPECIES LISTS

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Special Status Wildlife Species Potentially Occurring at Nolin Hills

Common Name	Scientific Name	Taxa	Federal Status ¹	ODFW Status in Columbia Plateau ²
American peregrine falcon	<i>Falco peregrinus anatum</i>	bird	BCC	S
bald eagle	<i>Haliaeetus leucocephalus</i>	bird	BCC	S
brewer's sparrow	<i>Spizella breweri breweri</i>	bird	BCC	S
burrowing owl	<i>Athene cunicularia hypugaea</i>	bird	-	SC
ferruginous hawk	<i>Buteo regalis</i>	bird	BCC	SC
flamulated owl	<i>Otus flammeolus</i>	bird	BCC	-
golden eagle	<i>Aquila chrysaetos</i>	bird	BCC	-
grasshopper sparrow	<i>Ammodramus savannarum</i>	bird	-	S
Lewis's woodpecker	<i>Melanerpes lewis</i>	bird	BCC	SC
loggerhead shrike	<i>Lanius ludovicianus</i>	bird	BCC	S
long-billed curlew	<i>Numerius americanus</i>	bird	BCC	SC
mountain quail	<i>Oreortyx pictus</i>	bird	SOC	-
sage thrasher	<i>Oreoscoptes montanus</i>	bird	BCC	-
sagebrush sparrow	<i>Artemisiospiza nevadensis</i>	bird	-	SC
Swainson's hawk	<i>Buteo swainsoni</i>	bird	-	S
tricolored blackbird	<i>Agelaius tricolor</i>	bird	BCC, SOC	-
white-headed woodpecker	<i>Picoides albolarvatus</i>	bird	BCC	-
willow flycatcher	<i>Empidonax traillii adastus</i>	bird	BCC, SOC	-
yellow rail	<i>Coturnicops noveboracensis</i>	bird	BCC	-
yellow-billed cuckoo	<i>Coccyzus americanus</i>	bird	T, BCC	-
Canada Lynx	<i>Lynx canadensis</i>	mammal	T	-
gray wolf	<i>Canis lupus</i>	mammal	E	-
hoary bat	<i>Lasiurus cinereus</i>	mammal	-	S
pallid bat	<i>Antrozous pallidus</i>	mammal	SOC	S
silver-haired bat	<i>Lasionycteris noctivagans</i>	mammal	SOC	S
spotted bat	<i>Euderma maculatum</i>	mammal	SOC	S
Townsend's big-eared bat	<i>Corynorhinus townsendii</i>	mammal	SOC	SC
Washington ground squirrel	<i>Urocitellus washingtoni</i>	mammal	SOC	E
wolverine	<i>Gulo gulo</i>	mammal	-	T
northern sagebrush lizard	<i>Sceloporus graciosus graciosus</i>	reptile	SOC	S
western painted turtle	<i>Chrysemys picta bellii</i>	reptile		SC
Columbia spotted frog	<i>Rana luteiventris</i>	amphibian	SOC	-

1 Federal Status: E = Endangered, T = Threatened, SOC = Species of Concern, BCC = Bird of Conservation Concern

2 ODFW Status: E = Endangered, T = Threatened, SC = Critical Sensitive Species, S = Sensitive Species.

Bensted, Amy

From: Hurley, Susan
Sent: Thursday, June 08, 2017 2:23 PM
To: inrdata@pdx.edu
Cc: Konkol, Carrie; Bensted, Amy
Subject: Umatilla county data request
Attachments: SiteBoundary_plus_10mileBuffer.zip

Dear Ms. Wise,

Capital Power Corporation has hired Tetra Tech, Inc. (Tetra Tech) to assist in assessing biological issues of a potential project in Umatilla County, Oregon.

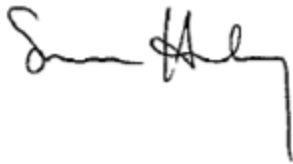
Tetra Tech requests GIS spatial data regarding any ecologically significant areas and/or listed endangered, threatened, or special concern species within and surrounding the data request area. In addition to sensitive species, Tetra Tech is interested in sensitive habitats, wildlife management areas, and any locations on the State Register of Natural Heritage Resources that may be located in or proximate to the proposed project area. Tetra Tech also requests data documenting any known bald or golden eagle nests in the request area.

An ArcGIS Shapefile in WGS1984 UTM10N that details the potential project area and research area buffer is attached to facilitate your data extraction.

Please include both the standard PDF database report as well as spatial data in the form of an ArcGIS Shapefile in your response.

Should you have any questions or require additional information, please do not hesitate to contact me directly by phone at (503) 727-8076 or email at Susan.Hurley@tetrattech.com.

Sincerely,



Susan Hurley
Project Biologist
Tetra Tech EC, Inc.

Attachments (1)

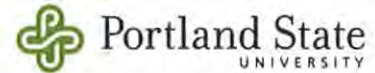
-WinZip file containing ArcGIS Shapefile of potential project area and research buffer

Susan Hurley | Senior Biologist/Project Manager
Direct: 503.727.8076 | Cell: 503.432.5974
susan.hurley@tetrattech.com

Tetra Tech | Sciences
1750 SW Harbor Way, Suite 400 | Portland, OR 97201 | www.tetrattech.com

OREGON BIODIVERSITY INFORMATION CENTER

Institute for Natural Resources



Mail Stop: INR
Post Office Box 751
Portland, Oregon 97207
503.725.9950
<http://orbic.pdx.edu>

June 16, 2017

Susan Hurley
Tetra Tech EC, Inc.
1750 SW Harbor Way, Suite 400
Portland, OR 97701

Dear Ms. Hurley:

Thank you for requesting information from the Oregon Biodiversity Information Center (ORBIC). We have conducted a data system search for rare, threatened and endangered plant and animal records for your Umatilla County Project in part of Umatilla County.

Eighty-three (83) element occurrence records were noted within your project area of interest and are included on the enclosed computer printout and GIS export.

This database search has returned records of Golden Eagle nests that originated with the US Fish and Wildlife Service, which makes the following disclaimers regarding this information:

1. No warranty is made by US Fish & Wildlife Service as to the accuracy, reliability or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources. The information may not meet National Map Accuracy Standards. This project was developed through digital means and may be updated without notification.
2. Golden eagle nest location data presented here is not intended for land use planning and analysis purposes and should be considered draft. Location data is provided solely for use in developing an inventory strategy intended to determine precise nest locations and develop a breeding population estimate for Oregon.
3. The data were based on reports from others, often second or third-hand interpretations from files, rather than original field work.
4. This data reflects only those nest sites that were reported through 2014.
5. The locations were described inconsistently, often covered large areas such as a square mile, and were not field-verified for accuracy.
6. Statewide coverage was unknown. There was no systematic survey of the landscape. Locations were gathered opportunistically or as part of local projects. Consequently, the absence of a location on the map does not mean that there was not a golden eagle nest in the area.
7. Current nest locations within breeding areas may be different from those portrayed on the maps, especially tree nests which are more ephemeral than cliff nests.
8. The nest use data were not collected annually or following an accepted protocol. Consequently, summaries or comparisons have little value.

Due to our agreement with the USFWS, locations for golden eagles are masked to the section level. For more information contact Larry Reigel at the US Fish and Wildlife Service at larry_reigel@fws.gov or 503-231-6179.

Washington ground squirrel (*Urocitellus washingtoni*) was found within your data search. Due to our agreement with the Oregon Department of Fish and Wildlife your report only includes general locational information for these records. If you need detailed locational information or have questions about Washington ground squirrel in your project area, please contact Arthur Rodriguez, Oregon Conservation Strategy GIS Analyst: arthur.h.rodriguez@state.or.us or 503-947-0126.

Please remember that a lack of rare element information from a given area does not necessarily indicate there are no significant elements present, only that there is no information known to us from the site. To ensure there are no significant elements present that may be affected by your project, you should inventory the site during the appropriate season.

This data is confidential and for the specific purposes of your project and is **not to be distributed**. Please also note that as our database is continually updated, the data in this report should be considered current for a maximum of one year from the date it was generated and should not be cited thereafter.

Please forward the included invoice to the appropriate party in your organization for payment.

If you need additional information or have any further questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Lindsey Wise". The signature is fluid and cursive, with the first name "Lindsey" written in a larger, more prominent script than the last name "Wise".

Lindsey Wise
Biodiversity Data Manager
lindsey.wise@pdx.edu
503.725.9951

encl.: **invoice (H-061617-LKW1)**
computer printout and data key

ATTACHMENT 6. CORRESPONDENCE WITH LEGISLATIVE COMMISSION ON INDIAN SERVICES

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Capital Power Corporation
155 Federal Street, Suite 1200
Boston, MA 02110
T 971-713-3938 | C : 503-347-8724
www.capitalpower.com

June 12, 2017

Karen Quigley, Executive Director
Oregon State Legislative Commission on Indian Services
900 Court St. NE, Room 167
Salem, OR 97301

Ms. Quigley,

Re: Proposed Nolin Hills Wind Farm, Native American Cultural Resources

I am writing with regard to OAR 345-020-0011(1)(p), which states that a Notice of Intent for a new energy project must include evidence of consultation with the State Commission on Indian Services to identify each appropriate Native American tribe to consult with regarding potential effects to Native American cultural resources. The present request is in relation to the proposed Nolin Hills Wind Farm (the Project), in Umatilla County.

I have attached a current map of the proposed Project, which is located in T2N/R29E, T2N/R30E, T1N/R29E, and T1N/R30E.

Please provide a list of Oregon tribes that are expected to have an interest in the Project's proposed analysis area. We would also appreciate the inclusion of any out-of-state tribal governments that the Commission believes may also have interest in this area in relation to the Project. An e-mail notification or hard copy letter would be acceptable for our files.

Thank you and please feel free to contact me regarding this request.

Sincerely,

A handwritten signature in blue ink that reads "Dennis Desmarais".

Dennis Desmarais
Director, Business Development

From: [King, Erin](#)
To: [Konkol, Carrie](#)
Subject: FW: Capital Power Nolin Hills Wind Farm Project
Date: Monday, June 12, 2017 3:45:55 PM
Attachments: [image001.png](#)

FYI

Expected tribes, but not as many as we thought.

CTUIR

Warm Springs

Nez Perce

Yakama

Erin King, MA, RPA | Archaeologist

Direct: (916) 502-6044 | Erin.King@tetrattech.com

Tetra Tech, Inc. | Complex World, Clear Solutions™

Home Office: Bandon, Oregon | tetrattech.com

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From: Quigley Karen M [<mailto:Karen.M.Quigley@oregonlegislature.gov>]

Sent: Monday, June 12, 2017 3:42 PM

To: King, Erin <Erin.King@tetrattech.com>

Subject: RE: Capital Power Nolin Hills Wind Farm Project

Well, Goggle does at times take poetic license.

For state archaeological permits in this area I would designate the Confederated Tribes of Umatilla and the Confederated Tribes of Warm Springs.

Two out-of-state Tribes that have interests along the Columbia River are the Nez Perce (ID) and Yakama (WA).

Karen

CIS_Email_Logo



karen.m.quigley@oregonlegislature.gov

From: King, Erin [<mailto:Erin.King@tetrattech.com>]

Sent: Monday, June 12, 2017 2:58 PM

To: Quigley Karen M <Karen.M.Quigley@oregonlegislature.gov>

Cc: Konkol, Carrie <Carrie.Konkol@tetrattech.com>
Subject: RE: Capital Power Nolin Hills Wind Farm Project

Hmmmm... Google must be making stuff up! Echo is the next closest town.

Erin King, MA, RPA | Archaeologist
Direct: (916) 502-6044 | Erin.King@tetrattech.com

Tetra Tech, Inc. | Complex World, Clear Solutions™
Home Office: Bandon, Oregon | tetrattech.com

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From: Quigley Karen M [<mailto:Karen.M.Quigley@oregonlegislature.gov>]
Sent: Monday, June 12, 2017 2:54 PM
To: King, Erin <Erin.King@tetrattech.com>
Subject: RE: Capital Power Nolin Hills Wind Farm Project

That's strange. My ODOT map of Oregon doesn't appear to list a Nolin.
KQ

From: King, Erin [<mailto:Erin.King@tetrattech.com>]
Sent: Monday, June 12, 2017 2:49 PM
To: Quigley Karen M <Karen.M.Quigley@oregonlegislature.gov>
Cc: Konkol, Carrie <Carrie.Konkol@tetrattech.com>
Subject: RE: Capital Power Nolin Hills Wind Farm Project

Hi Karen –
Sorry about that. The nearest town is Nolin, OR.
Erin

Erin King, MA, RPA | Archaeologist
Direct: (916) 502-6044 | Erin.King@tetrattech.com

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From: Quigley Karen M [<mailto:Karen.M.Quigley@oregonlegislature.gov>]
Sent: Monday, June 12, 2017 2:47 PM
To: King, Erin <Erin.King@tetrattech.com>
Subject: RE: Capital Power Nolin Hills Wind Farm Project

Thanks for your email.

Could you please send the nearest city or town to your proposed wind farm project.

Karen

CIS_Email_Logo



Karen.m.quigley@oregonlegislature.gov

From: King, Erin [<mailto:Erin.King@tetrattech.com>]

Sent: Monday, June 12, 2017 2:12 PM

To: Quigley Karen M <Karen.M.Quigley@oregonlegislature.gov>

Cc: Konkol, Carrie <Carrie.Konkol@tetrattech.com>; Dennis Desmarais
<d-desmara@capitalpower.com>; Jay Shukin <jshukin@capitalpower.com>

Subject: Capital Power Nolin Hills Wind Farm Project

Ms. Quigley –

On behalf of Capital Power, please find attached a letter request for tribal contacts with interest in the proposed Nolin Hills Wind Farm project area in Umatilla County. If you experience any issues with the file, please let me know.

Thank you,
Erin King

Erin King, MA, RPA | Archaeologist

Direct: (916) 502-6044 | Erin.King@tetrattech.com

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Home Office: Bandon, Oregon | tetrattech.com

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