

**EXHIBIT C**

**PROPOSED LOCATION AND MAPS**

OAR 345-021-0010(1)(c)

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## C.1 INTRODUCTION

**OAR 345-021-0010(1)(c)** *Information about the location of the proposed facility.*

Iberdrola Renewables, Inc. (Applicant) proposes to construct the Montague Wind Power Facility (Facility) in Gilliam County, Oregon, with generating capacity of up to 404 megawatts (MW).

## C.2 MAPS

**OAR 345-021-0010(1)(c)(A)** *A map or maps showing 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, using a scale of 1 inch = 2,000 feet or smaller when necessary to show detail; and*

Response:

The Applicant seeks micro-siting flexibility for the Facility, as stated in Exhibit B. The ASC analyzes impacts for two turbine types that represent a range of alternative turbine technologies (i.e., encompassing the scale and impacts of the turbines) that could potentially be used at the Facility. The minimum turbine layout is 134 3.0-MW turbines. The maximum turbine layout is 269 1.5-MW turbines. The final layout will have 134 to 269 turbines, with any combination of 3.0-MW turbines and 1.5-MW turbines. The total number of turbines will not exceed 269 and the total MW will not exceed 404. The location of the proposed Facility and related and supporting facilities is described in Sections C.3.1 and C.3.2, respectively. The micro-siting corridor is described in Section C.3.3. To demonstrate that the final layout will be consistent with Council standards, the studies and analyses provided in this ASC are based on the worst-case scenario, as described in Section C.3.4. Maps showing the layouts are as follows:

- Figure C-1 shows the Facility site boundary plotted on a 7.5-minute quadrangle map.
- Figure C-2 provides a closer view of the Facility location.
- Figure C-3 shows the overlap between the Facility site boundary and the amended Leaning Juniper II Wind Power Facility (LJF) site boundary for Leaning Juniper IIB (LJIIB).
- Figure C-4 shows the current proposed maximum turbine layout with 269 1.5-MW turbines, along with related or supporting facilities. Figure C-5 provides a detailed view of the 1.5-MW layout at a scale of 1 inch to 2,000 feet. Figure C-6 shows the current proposed minimum turbine layout with 134 3.0-MW turbines, along with related or supporting facilities. Figure C-7 provides a detailed view of the 3.0-MW layout at a scale of 1 inch to 2,000 feet.
- Figure C-8 shows the micro-siting corridor dimensions for turbine strings, roads, collector cables, and crane paths.

- Finally, Figure C-9 shows the worst-case layout scenario and areas that might be temporarily disturbed during construction of the Facility under this scenario. The worst-case scenario is the maximum turbine layout, shifted into higher-rated habitats and using the maximum disturbance areas, as further described in Section C.3.4.

### C.3 LOCATION AND LAND AREA OF FACILITY COMPONENTS

**OAR 345-021-0010(1)(c)(B)** *A description of the location of the proposed energy facility site, the proposed site of each related or supporting facility and areas of temporary disturbance, including the approximate land area of each. If a proposed pipeline or transmission line is to follow an existing road, pipeline or transmission line, the applicant shall state to which side of the existing road, pipeline or transmission line the proposed facility will run, to the extent this is known.*

Response:

#### C.3.1 Location of Proposed Energy Facility Site

##### C.3.1.1 Summary

The distance from the city of Arlington to the Slatt Interconnection Substation (Slatt substation) in the northwest portion of the proposed Facility site boundary is approximately 1.5 miles and the distance from the city of Arlington to the site boundary with the nearest Facility turbine is approximately 3.8 miles. The Facility site boundary encompasses all or portions of the following:

- Township 1 North, Range 20 East, Sections: 001, 002, 003, 011
- Township 1 North, Range 21 East, Sections: 001, 002, 003, 004, 005, 006, 007, 009, 011, 012, 013, 016, 021, 022, 023, 024, 025, 026
- Township 1 North, Range 22 East, Sections: 005, 006, 007, 008, 009, 016, 017, 018, 019, 020, 021, 028, 029, 031, 032, 033, 034, 035, 036
- Township 1 South, Range 21 East, Sections: 001, 012
- Township 1 South, Range 22 East, Sections: 001, 002, 003, 004, 005, 006, 007, 008
- Township 2 North, Range 20 East, Sections: 034, 035, 036
- Township 2 North, Range 21 East, Sections: 001, 002, 011, 012, 013, 014, 022, 023, 024, 025, 026, 031, 032, 033
- Township 2 North, Range 22 East, Sections: 006, 007, 016, 017, 018, 019, 020, 021, 022, 027, 028, 029, 030, 031, 032, 033, 034
- Township 3 North, Range 21 East, Sections: 035, 036

The site is approximately 33,402 acres. The Facility components are proposed on private land for which the Applicant has negotiated or is in the final stages of negotiating long-term wind energy leases with the landowners, or on private land for which the

Applicant is in the process of obtaining easements from landowners and other wind developers. The wind energy leases allow for the Applicant to permit, construct, and operate wind energy facilities for a defined period. In exchange, the landowners receive compensation from the Applicant. The terms of the wind energy leases allow landowners to continue their farming operations (primarily cultivation of wheat) in and around the wind turbine generators and other facilities where the farming activities do not affect the operation and maintenance of the wind generation equipment.

Figure C-2 shows the proposed Facility site boundary. Figure C-4 shows the current Facility layout for 269 1.5-MW turbines (the maximum turbine layout) along with other facilities, including the proposed meteorological (met) towers, 230-kilovolt (kV) transmission line, underground and overhead 34.5-kV collector lines, operations and maintenance (O&M) facility(s) and staging areas, Facility Collector Substations (collector substations), additional construction areas (e.g., temporary staging areas), crane paths, and existing and proposed transportation and access roads. Figure C-5 provides a detailed view of the 1.5-MW maximum turbine layout at a scale of 1 inch to 2,000 feet.

Figure C-6 shows the potential Facility layout for 134 3.0-MW turbines (the minimum turbine layout) along with the related or supporting facilities described for Figure C-4. Figure C-7 provides a detailed view of the 3.0-MW minimum turbine layout at a scale of 1 inch to 2,000 feet.

Figure C-8 shows the micrositing corridors for Facility components (e.g., turbine strings, roads, collector cables, and crane paths). Points on the corridor site boundary are labeled to correspond to the micrositing corridor location descriptions provided in Table C-1 (located at the end of text).

Figure C-9 shows areas of temporary disturbance for the worst-case layout.

### **C.3.1.2 Proposed Layout**

The Applicant is proposing two turbine layouts because the turbine vendor, model, size, and consequently, total number have not yet been determined. The two turbine sizes represent a range of alternative turbine technologies (i.e., encompassing the scale and impacts of the turbines) that could potentially be used at the Facility. The minimum turbine layout is 134 3.0-MW turbines. The maximum turbine layout is 269 1.5-MW turbines. The final layout will have 134 to 269 turbines, with any combination of 3.0-MW turbines and 1.5-MW turbines. The total number of turbines will not exceed 269 and the total MW will not exceed 404.

### **C.3.1.3 Turbines**

The energy facility includes the turbine components of the Facility. Like other Facility components, the energy facility site is located on private land for which the Applicant has long-term wind energy leases or easements.

The Facility will have up to 269 turbines, depending on the generating capacity of the turbines selected. The number of turbines in each string and the spacing between

turbines may vary depending on which turbine supplier is selected. Therefore, the Applicant has identified a micrositing corridor in which to place the turbines with the exact final locations yet to be determined, as further described in Section C.3.3. The corridor is depicted in Figures C-4 and C-6 for the 1.5-MW and 3.0-MW turbine layouts, respectively. The turbines will occupy approximately 10.2 acres of land.

### **C.3.2 Location of Related or Supporting Facilities**

Related or supporting facilities are components of the Facility that would not otherwise be constructed “but for” the construction or operation of the energy facility. Modifications to existing structures, however, do not constitute related or supporting facilities unless the structure is significantly modified solely to serve the energy facility. See ORS 469.300(24); OAR 345-001-0010(49). The following sections describe the location of the Facility’s related or supporting facilities.

#### **C.3.2.1 Power Collection System**

As described in Exhibit B, a network of collection power cables will be installed along and between the turbine strings to collect power generated by the individual wind turbines and route the power to the collector substations for delivery into the utility grid. The majority of the collector cable system will be buried in the soil approximately 3 feet below the ground surface. However, where site-specific considerations require, the collector system may be aboveground. Using aboveground structures allows the collector cables to span canyons and intermittent streams and thus to reduce environmental impacts. The overhead pole structures will generally be about 80 to 100 feet tall, depending on terrain.

Energy generated from the turbines will be collected by the cable system and connected to the collector substations as shown in Figures C-4 and C-6. Approximately 76 miles of collector cable will be placed underground and approximately 15 miles will run on overhead pole structures. No more than 27 miles (30 percent of the collector system) will be placed overhead.

#### **C.3.2.2 230-kV Transmission Line**

A new overhead 230-kV transmission line will connect the Facility to the existing 500-kV BPA Slatt-Buckley transmission line at the Slatt substation located approximately 1.5 miles southeast of Arlington, Oregon. The new overhead 230-kV transmission line will run from the Facility’s western collector substation to the central collector substation and from the central collector substation to BPA’s Slatt substation. The overhead 230-kV transmission line from the western collector substation to the central collector substation is approximately 8.2 miles or up to 9 miles in length. Three potential routes are under evaluation for the transmission line from the central collector substation to the Slatt substation: a preferred (also referred to as “proposed”) transmission line route that is approximately 8.8 miles long, an Alternate 1 route that is approximately 8.2 miles long, and an Alternate 2 route that is approximately 8.8 miles long. The portion of the transmission line from the central collector substation to the Slatt substation will be up to 10 miles in length. The three routes are shown in Figures C-4 and C-6.

### **C.3.2.3 Operations and Maintenance Facility(s)**

The Facility will have up to two O&M facilities located on approximately 10 acres each. Approximately 3 acres will be fenced and graveled for the O&M facility, including the building and adjacent parking and storage. The remaining 7 acres will be used for temporary staging during construction. Each O&M facility will include a one-story building of up to 8,000 square feet, as discussed in Sections B.1.4.2 and B.3.3 of Exhibit B. The building(s) will house offices (including office space for several contractors), bathroom and kitchen facilities, a break room, a storage area, a garage for vehicle, turbine, and equipment maintenance, and the supervisory, control, and data acquisition (SCADA) equipment. The O&M building(s) will use an exempt groundwater well to supply less than 5,000 gallons per day for commercial/industrial use and a septic system. Power and phone service for the O&M building(s) will be provided by local providers, such as Pacific Power or Columbia Basin and Sprint.

### **C.3.2.4 Meteorological Towers**

Up to eight permanent meteorological (met) towers will be placed within the site boundary for the collection of Facility meteorological data. Permanent meteorological towers will be free-standing (unguyed) structures. The towers will be up to approximately 262 ft (80 m) high with an equilateral triangle base, each side of which will be roughly 25 ft (8 m) long. The met tower foundation will be a square pad measuring approximately 28 feet by 28 feet by 3 feet deep. Figure B-5 provides general design information for the met tower foundation. Figures C-4 and C-6 show the proposed met tower locations.

### **C.3.2.5 Access Roads**

Access roads are shown in Figures C-4 and C-6. Roads will be designed under the direction of a licensed engineer and compacted to meet equipment load requirements. In the worst-case layout, approximately 70 miles of new roads will be constructed for the Facility. In addition, approximately 24 miles of existing roads will be improved in the worst-case layout. Easements will be negotiated with adjacent landowners for road and collector cable access, as needed.

### **C.3.2.6 Additional Construction Areas**

During construction, temporary staging areas will be used to stage construction and store supplies and equipment. A 7-acre temporary staging area will be located within the 10-acre construction area at each O&M facility. Approximately one temporary 2.5-acre staging area will be located adjacent to each proposed turbine string. Several 5-acre staging areas will be centrally located within the site boundary. The locations of these staging areas are shown in Figures C-4 and C-6.

### **C.3.2.7 Gas Pipeline Corridor**

There is no gas pipeline associated with this Facility.

### **C.3.2.8 Water Pipeline Corridor**

There is no water supply pipeline associated with this Facility.

### **C.3.3 Micrositing Corridor Locations of Energy Facility Site and Related and Supporting Facilities**

The Applicant has identified a micrositing corridor for turbines and related or supporting facilities, rather than identify specific turbine locations, in order to construct turbines at the optimal locations for wind capture. To elaborate, the purpose of the micrositing corridor is to allow for the flexibility to optimize the final layout, while also providing regulatory agencies with a definition of the range of possible wind facility impacts and a demonstration that in all potential configurations, the Facility will meet applicable regulatory standards. The micrositing corridor approach for turbines, collector cables, roads, and other related or supporting facilities provides flexibility for both the final orientation of the turbine strings and for selection of turbine vendors and sizes to both maximize the wind resource and also minimize and avoid impacts to wildlife and habitat, and other resources. The micrositing corridor for the transmission line also provides flexibility for final lease or easement agreements with landowners and the final engineering design.

Micrositing corridors are semirectangular corridors identified around turbines, associated access roads, collector cables, and other facilities. The corridors are centered around the preliminary layout. The corridors range in width depending on site conditions, the potential for sensitive species, and the need for micrositing flexibility. The defined micrositing corridors themselves represent the Facility locations, rather than the location of specific turbines or other related or supporting facilities. After the Facility is permitted, the turbines and other Facility components will be sited within the micrositing corridors identified, provided that these locations are adequately surveyed for biological and cultural resources before construction and comply with all applicable permit conditions.

Table C-1 and Figure C-8 define the micrositing corridors using the Federal Energy Regulatory Commission guidelines for defining project boundaries (FERC, 2009).

In sum, the Applicant proposes that the Facility turbines and related and supporting facilities be authorized anywhere within the micrositing corridors identified, provided that these areas are surveyed prior to construction and impacts are avoided, minimized and mitigated in accordance with Council standards and Facility site certificate conditions, as described in other Exhibits.

### **C.3.4 Land Area of Facility and Related and Supporting Facilities**

This section describes the permanent footprint occupied by the Facility as well as the temporary impacts from construction. The micrositing corridor is described in Section C.3.3 and shown in Table C-1 and Figure C-8.

Because the Applicant seeks micrositing flexibility for the Facility, temporary and permanent impacts were calculated based on the worst-case scenario. To calculate the

worst-case impacts, the Applicant shifted the current maximum turbine layout (269 turbines) shown in Figures C-4 and C-5 into higher-rated habitats within the micrositing corridor. In some places, the micrositing corridor overlaps with Category 1 habitat. However, in no instance will the facilities be moved into Category 1 habitat. Tables C-2 and C-3 show the permanent and temporary impacts for the Facility and related or supporting facilities based on the worst-case layout described in this section. Figure C-9 shows temporarily disturbed areas for the worst-case layout. The worst-case impacts are also described in Exhibit P and shown in Table P-11 and Figures P-11 and P-12.

To calculate the worst-case acres of permanent impacts, the maximum turbine layout was used along with a permanent disturbance area measuring 1,660 square feet. The area permanently disturbed during operations will be circular with a radius of up to 23 feet, or up to 1,660 square feet. These dimensions include a turbine tower with a radius of up to 8 feet (16 feet in diameter) and surrounding gravel area with a radius of up to 15 feet, which represent the 3.0-MW tower diameter and maximum graveled area (i.e., the worst-case scenario).

The preferred transmission line route was used in the calculations for the worst-case impacts. The preferred route is longer than alternate route 1 and the same length as alternate route 2 (approximately 8.8 miles compared to approximately 8.2 miles for alternate route 1 and 8.8 miles for alternate route 2). The preferred route also potentially impacts more high-quality habitat.

During construction, a larger area will be used to stage the rotors and maneuver cranes during turbine assembly. When calculating the worst-case temporary impacts, the maximum turbine layout was used along with a maximum temporary disturbance area measuring 160,000 square feet. The typical temporary disturbance area at each turbine location is equal to approximately 53,000 square feet around the 1.5-MW turbines (130-foot radius for the 77m/253-ft-diameter blades) or approximately 85,000 square feet around the 3.0-MW turbines (164-foot radius for the 100m/328-ft-diameter blades), as shown in Figure B-6. However, in some cases construction contractors prefer a larger area measuring approximately 160,000 square feet to reduce construction costs.

Additional temporary impacts include construction-related impacts associated with the staging areas and the underground collector systems. These areas will be temporarily disturbed during construction and will be restored to preconstruction condition after the construction-related activities are complete. During construction, temporary staging areas will be used to stage construction and store supplies and equipment. The maximum number of temporary staging areas was included in the worst-case impacts. For example, while only one O&M facility may be needed, two O&M facilities were included in the worst-case impact calculations. Each O&M facility has a 7-acre staging area. Therefore, to provide a single, worst-case analysis, the Applicant calculated the area of temporary and permanent impacts using the maximum number of turbines and the largest of the temporary and permanent disturbance areas.

All of the relevant Exhibits in this ASC use the potential layout that represents the worst-case scenario to determine the most conservative estimate of impact. For the scenic and aesthetic and noise evaluations (Exhibits R and X, respectively), both the

maximum and minimum turbine layouts were analyzed to determine the worst-case scenario. For the amount of acres temporarily and permanently disturbed, the maximum turbine layout was shifted into the highest-quality habitat and the maximum disturbance area was used (Exhibits C, I, K, P, Q, and S). Table C-4 identifies the worst-case scenario for applicable Exhibits. A summary of the analysis performed to identify the layout providing the most conservative impact is included in relevant Exhibits.

During final project design, the Facility will be microsited to avoid and minimize both temporary and permanent impacts to high-quality native habitat where practicable and to retain habitat cover in the general landscape.

#### **C.4 REFERENCE**

Federal Energy Regulatory Commission (FERC). 2009. Managing Hydropower Project Exhibits – Guidance Document. Appendix 1, Exhibit Guide to Regulatory Requirements. Section 4.41(h) (2) page 18  
<http://www.ferc.gov/industries/hydropower/gen-info/guidelines/drawings-guide.pdf>.

**Table C-1. Micrositing Corridors Correlated to Figure C-8**

| Point ID  | Latitude          | Longitude         | Description                               | Approximate Length (feet) |
|-----------|-------------------|-------------------|---|---------------------------|
| 1 (Start) | 45° 42' 18.655" N | 120° 9' 7.051" W  |   |                           |
|           |                   |                   | N 51-26-17 E                              | 97                        |
| 2         | 45° 42' 19.374" N | 120° 9' 6.149" W  |   |                           |
|           |                   |                   | North line of T3N R21E Section 35         | 1930                      |
| 3         | 45° 42' 19.345" N | 120° 8' 38.960" W |   |                           |
|           |                   |                   | North line of T3N R21E Section 36         | 1334                      |
| 4         | 45° 42' 19.346" N | 120° 8' 20.163" W |   |                           |
|           |                   |                   | S 55-13-2 E                               | 1538                      |
| 5         | 45° 42' 8.657" N  | 120° 8' 4.773" W  |   |                           |
|           |                   |                   | N 89-48-51 E                              | 2808                      |
| 6         | 45° 42' 8.785" N  | 120° 7' 25.223" W |   |                           |
|           |                   |                   | Property Line                             | 4264                      |
| 7         | 45° 41' 26.695" N | 120° 7' 25.608" W |   |                           |
|           |                   |                   | S 67-35-39 E                              | 86                        |
| 8         | 45° 41' 26.266" N | 120° 7' 24.569" W |   |                           |
|           |                   |                   | N 88-26-51 E                              | 900                       |
| 9         | 45° 41' 26.609" N | 120° 7' 11.907" W |   |                           |
|           |                   |                   | S 0-6-26 W                                | 10522                     |
| 10        | 45° 39' 42.757" N | 120° 7' 12.101" W |   |                           |
|           |                   |                   | S 42-19-30 E                              | 1565                      |
| 11        | 45° 39' 29.738" N | 120° 7' 0.244" W  |   |                           |
|           |                   |                   | Property Line                             | 10548                     |
| 12        | 45° 39' 42.991" N | 120° 4' 50.600" W |   |                           |
|           |                   |                   | East line of T2N R22E Section 17          | 1340                      |
| 13        | 45° 39' 29.762" N | 120° 4' 50.669" W |   |                           |
|           |                   |                   | S 54-23-23 E                              | 1867                      |
| 14        | 45° 39' 16.593" N | 120° 4' 32.281" W |   |                           |
|           |                   |                   | East line of SW4 NW4 T2N R22E Section 16  | 1324                      |
| 15        | 45° 39' 29.665" N | 120° 4' 32.211" W |   |                           |
|           |                   |                   | North line of SE4 NW4 T2N R22E Section 16 | 1311                      |
| 16        | 45° 39' 29.566" N | 120° 4' 13.754" W |   |                           |
|           |                   |                   | East line of NE4 NW4 T2N R22E Section 16  | 1358                      |
| 17        | 45° 39' 42.975" N | 120° 4' 13.682" W |   |                           |
|           |                   |                   | Property Line                             | 12611                     |
| 18        | 45° 38' 24.324" N | 120° 3' 8.840" W  |   |                           |
|           |                   |                   | S 0-10-38 W                               | 3946                      |
| 19        | 45° 37' 45.374" N | 120° 3' 8.960" W  |   |                           |
|           |                   |                   | South line of N2 N2 T2N R22E Section 27   | 2005                      |
| 20        | 45° 37' 45.315" N | 120° 3' 37.126" W |   |                           |
|           |                   |                   | South line of NE4 NE4 T2N R22E Section 28 | 654                       |
| 21        | 45° 37' 45.319" N | 120° 3' 46.371" W |   |                           |
|           |                   |                   | S 0-37-44 E                               | 1310                      |
| 22        | 45° 37' 32.394" N | 120° 3' 46.229" W |   |                           |
|           |                   |                   | Property Line                             | 5809                      |
| 23        | 45° 37' 19.437" N | 120° 3' 37.047" W |   |                           |

**Table C-1. Micrositing Corridors Correlated to Figure C-8**

| Point ID | Latitude          | Longitude         | Description                               | Approximate Length (feet) |
|----------|-------------------|-------------------|---|---------------------------|
|          |                   |                   | North line of SW4 SW4 T2N R22E Section 27 | 1317                      |
| 24       | 45° 37' 19.467" N | 120° 3' 18.518" W |   |                           |
|          |                   |                   | East line of SW4 SW4 T2N R22E Section 27  | 1311                      |
| 25       | 45° 37' 6.523" N  | 120° 3' 18.486" W |   |                           |
|          |                   |                   | Property Line                             | 10568                     |
| 26       | 45° 37' 6.851" N  | 120° 4' 32.761" W |   |                           |
|          |                   |                   | East line of W2 W2 T2N R22E Section 28    | 3899                      |
| 27       | 45° 37' 45.335" N | 120° 4' 32.750" W |   |                           |
|          |                   |                   | N 54-51-51 W                              | 1860                      |
| 28       | 45° 37' 58.292" N | 120° 4' 51.161" W |   |                           |
|          |                   |                   | Property Line                             | 3344                      |
| 29       | 45° 37' 48.670" N | 120° 5' 28.014" W |   |                           |
|          |                   |                   | West line of NW4 NE4 T2N R22E Section 29  | 321                       |
| 30       | 45° 37' 45.502" N | 120° 5' 28.025" W |   |                           |
|          |                   |                   | North line of S2 N2 T2N R22E Section 29   | 1954                      |
| 31       | 45° 37' 45.622" N | 120° 5' 55.509" W |   |                           |
|          |                   |                   | S 2-47-8 W                                | 1506                      |
| 32       | 45° 37' 30.766" N | 120° 5' 56.232" W |   |                           |
|          |                   |                   | Property Line                             | 632                       |
| 33       | 45° 37' 29.356" N | 120° 6' 4.803" W  |   |                           |
|          |                   |                   | Property Line                             | 6197                      |
| 34       | 45° 37' 6.844" N  | 120° 5' 9.751" W  |   |                           |
|          |                   |                   | West line of NE4 NE4 T2N R22E Section 32  | 1317                      |
| 35       | 45° 36' 53.842" N | 120° 5' 9.736" W  |   |                           |
|          |                   |                   | Property Line                             | 5272                      |
| 36       | 45° 36' 14.738" N | 120° 4' 51.109" W |   |                           |
|          |                   |                   | Property Line                             | 5306                      |
| 37       | 45° 35' 22.511" N | 120° 4' 50.867" W |   |                           |
|          |                   |                   | Property Line                             | 10513                     |
| 38       | 45° 34' 30.646" N | 120° 4' 51.926" W |   |                           |
|          |                   |                   | Property Line                             | 3963                      |
| 39       | 45° 33' 51.528" N | 120° 4' 51.812" W |   |                           |
|          |                   |                   | Property Line                             | 2621                      |
| 40       | 45° 33' 51.695" N | 120° 4' 14.981" W |   |                           |
|          |                   |                   | East line of SE4 SW4 T1N R22E Section 16  | 1359                      |
| 41       | 45° 33' 38.284" N | 120° 4' 15.015" W |   |                           |
|          |                   |                   | East line of W2 T1N R22E Section 21       | 5174                      |
| 42       | 45° 32' 47.212" N | 120° 4' 14.856" W |   |                           |
|          |                   |                   | Property Line                             | 15865                     |
| 43       | 45° 31' 28.971" N | 120° 3' 0.982" W  |   |                           |
|          |                   |                   | Property Line                             | 3924                      |
| 44       | 45° 31' 41.920" N | 120° 2' 24.248" W |   |                           |
|          |                   |                   | North line of S2 N2 T1N R22E Section 35   | 5247                      |
| 45       | 45° 31' 42.018" N | 120° 1' 10.565" W |   |                           |
|          |                   |                   | North line of S2 N2 T1N R22E Section 36   | 5241                      |

**Table C-1. Micrositing Corridors Correlated to Figure C-8**

| Point ID | Latitude          | Longitude          | Description                            | Approximate Length (feet) |
|----------|-------------------|--------------------|--|---------------------------|
| 46       | 45° 31' 42.097" N | 119° 59' 56.973" W | Property Line                          | 5378                      |
| 47       | 45° 31' 2.585" N  | 120° 0' 16.491" W  | S 38-15-43 W                           | 133                       |
| 48       | 45° 31' 1.433" N  | 120° 0' 17.400" W  | Property Line                          | 4075                      |
| 49       | 45° 30' 21.209" N | 120° 0' 17.642" W  | South line of N2 S2 T1S R22E Section 1 | 5252                      |
| 50       | 45° 30' 21.709" N | 120° 1' 31.359" W  | South line of N2 S2 T1S R22E Section 2 | 2492                      |
| 51       | 45° 30' 21.763" N | 120° 2' 6.340" W   | N 1-26-22 E                            | 3424                      |
| 52       | 45° 30' 55.551" N | 120° 2' 5.491" W   | N 88-43-56 W                           | 5377                      |
| 53       | 45° 30' 57.221" N | 120° 3' 20.941" W  | N 66-5-6 W                             | 1103                      |
| 54       | 45° 31' 3.029" N  | 120° 3' 34.040" W  | Property Line                          | 5902                      |
| 55       | 45° 31' 3.189" N  | 120° 4' 56.898" W  | Property Line                          | 22698                     |
| 56       | 45° 29' 40.352" N | 120° 7' 36.392" W  | Property Line                          | 3780                      |
| 57       | 45° 30' 10.248" N | 120° 8' 0.093" W   | Property Line                          | 6845                      |
| 58       | 45° 31' 3.435" N  | 120° 7' 26.571" W  | Property Line                          | 8418                      |
| 59       | 45° 31' 55.406" N | 120° 6' 42.374" W  | Property Line                          | 2604                      |
| 60       | 45° 31' 55.438" N | 120° 6' 5.810" W   | Property Line                          | 5244                      |
| 61       | 45° 32' 21.090" N | 120° 5' 28.709" W  | Property Line                          | 18230                     |
| 62       | 45° 34' 3.619" N  | 120° 6' 42.229" W  | S 45-42-24 W                           | 1667                      |
| 63       | 45° 33' 50.267" N | 120° 6' 55.915" W  | S 23-34-1 W                            | 1223                      |
| 64       | 45° 33' 38.729" N | 120° 7' 0.948" W   | Property Line                          | 3734                      |
| 65       | 45° 33' 13.184" N | 120° 7' 17.658" W  | S 58-14-41 W                           | 272                       |
| 66       | 45° 33' 11.414" N | 120° 7' 20.517" W  | S 72-19-11 W                           | 420                       |
| 67       | 45° 33' 9.701" N  | 120° 7' 25.891" W  | Property Line                          | 11650                     |
| 68       | 45° 31' 55.402" N | 120° 8' 41.264" W  |  |                           |

**Table C-1. Micrositing Corridors Correlated to Figure C-8**

| Point ID | Latitude          | Longitude          | Description                               | Approximate Length (feet) |
|----------|-------------------|--------------------|---|---------------------------|
|          |                   |                    | Property Line                             | 18476                     |
| 69       | 45° 33' 13.297" N | 120° 8' 40.604" W  | East line of T1N R21E Section 23          | 2585                      |
| 70       | 45° 33' 38.803" N | 120° 8' 40.380" W  | East line of T1N R21E Section 14          | 2676                      |
| 71       | 45° 34' 5.214" N  | 120° 8' 40.324" W  | Property Line                             | 5258                      |
| 72       | 45° 34' 30.518" N | 120° 8' 2.234" W   | N 29-51-18 E                              | 7115                      |
| 73       | 45° 35' 35.419" N | 120° 7' 24.981" W  | East line of T1N R21E Section 1           | 428                       |
| 74       | 45° 35' 39.928" N | 120° 7' 25.016" W  | S 63-49-55 W                              | 1229                      |
| 75       | 45° 35' 32.974" N | 120° 7' 39.167" W  | S 56-35-12 W                              | 3223                      |
| 76       | 45° 35' 11.191" N | 120° 8' 12.186" W  | S 57-16-30 W                              | 413                       |
| 77       | 45° 35' 8.436" N  | 120° 8' 16.474" W  | N 89-53-34 W                              | 4315                      |
| 78       | 45° 35' 8.549" N  | 120° 9' 17.126" W  | N 28-58-19 W                              | 3199                      |
| 79       | 45° 35' 37.976" N | 120° 9' 33.419" W  | N 30-37-56 W                              | 1324                      |
| 80       | 45° 35' 50.041" N | 120° 9' 40.563" W  | N 88-46-26 W                              | 1505                      |
| 81       | 45° 35' 50.493" N | 120° 10' 1.708" W  | S 80-10-23 W                              | 3509                      |
| 82       | 45° 35' 42.197" N | 120° 10' 49.605" W | S 89-22-33 W                              | 1594                      |
| 83       | 45° 35' 41.953" N | 120° 11' 12.011" W | S 0-10-46 W                               | 1342                      |
| 84       | 45° 35' 28.705" N | 120° 11' 12.053" W | S 38-21-51 W                              | 4355                      |
| 85       | 45° 34' 51.127" N | 120° 11' 41.799" W | S 11-50-36 E                              | 1714                      |
| 86       | 45° 34' 34.387" N | 120° 11' 38.288" W | S 32-45-55 E                              | 1947                      |
| 87       | 45° 34' 16.855" N | 120° 11' 27.004" W | Property Line                             | 11613                     |
| 88       | 45° 32' 47.736" N | 120° 11' 28.330" W | Property Line                             | 1408                      |
| 89       | 45° 32' 47.846" N | 120° 11' 48.017" W | Property Line                             | 6430                      |
| 90       | 45° 33' 26.650" N | 120° 12' 23.179" W | North line of SW4 NW4 T1N R21E Section 21 | 1318                      |

**Table C-1. Micrositing Corridors Correlated to Figure C-8**

| Point ID | Latitude          | Longitude          | Description                               | Approximate Length (feet) |
|----------|-------------------|--------------------|---|---------------------------|
| 91       | 45° 33' 26.613" N | 120° 12' 4.656" W  | West line of NE4 NW4 T1N R21E Section 21  | 1314                      |
| 92       | 45° 33' 39.578" N | 120° 12' 4.531" W  | West line of E2 W2 T1N R21E Section 16    | 4204                      |
| 93       | 45° 34' 21.068" N | 120° 12' 3.806" W  | Property Line                             | 736                       |
| 94       | 45° 34' 21.096" N | 120° 12' 14.153" W | N 0-1-26 E                                | 3675                      |
| 95       | 45° 34' 57.369" N | 120° 12' 14.137" W | Property Line                             | 3526                      |
| 96       | 45° 35' 23.655" N | 120° 11' 45.295" W | Property Line                             | 7875                      |
| 97       | 45° 35' 50.089" N | 120° 12' 58.869" W | Property Line                             | 10553                     |
| 98       | 45° 34' 58.193" N | 120° 14' 13.075" W | N 54-43-54 W                              | 39                        |
| 99       | 45° 34' 58.467" N | 120° 14' 13.463" W | South line of SE4 NW4 T1N R21E Section 7  | 1310                      |
| 100      | 45° 34' 58.493" N | 120° 14' 31.881" W | East line of NW4 SW4 T1N R21E Section 7   | 1328                      |
| 101      | 45° 34' 45.389" N | 120° 14' 31.974" W | Property Line                             | 8281                      |
| 102      | 45° 35' 24.641" N | 120° 14' 57.590" W | Property Line                             | 11811                     |
| 103      | 45° 34' 58.316" N | 120° 17' 6.271" W  | S 88-46-25 W                              | 1303                      |
| 104      | 45° 34' 57.924" N | 120° 17' 24.580" W | Property Line                             | 2195                      |
| 105      | 45° 35' 19.591" N | 120° 17' 24.847" W | Property Line                             | 513                       |
| 106      | 45° 35' 24.629" N | 120° 17' 24.838" W | Property Line                             | 13173                     |
| 107      | 45° 36' 15.698" N | 120° 18' 3.797" W  | Property Line                             | 1358                      |
| 108      | 45° 36' 28.786" N | 120° 18' 3.100" W  | North line of SW4 SE4 T2N R20E Section 34 | 1315                      |
| 109      | 45° 36' 28.822" N | 120° 17' 44.607" W | East line of SW4 SE4 T2N R20E Section 34  | 1318                      |
| 110      | 45° 36' 15.813" N | 120° 17' 44.629" W | East line of W2 E2 T1N R20E Section 3     | 2574                      |
| 111      | 45° 35' 50.408" N | 120° 17' 44.151" W | South line of SE4 NE4 T1N R20E Section 3  | 1316                      |
| 112      | 45° 35' 50.505" N | 120° 17' 25.647" W | South line of SW4 NW4 T1N R20E Section 2  | 1294                      |
| 113      | 45° 35' 50.472" N | 120° 17' 7.451" W  |   |                           |

**Table C-1. Micrositing Corridors Correlated to Figure C-8**

| Point ID | Latitude          | Longitude          | Description                               | Approximate Length (feet) |
|----------|-------------------|--------------------|---|---------------------------|
|          |                   |                    | East line of SW4 NW4 T1N R20E Section 2   | 1309                      |
| 114      | 45° 36' 3.394" N  | 120° 17' 7.738" W  |   |                           |
|          |                   |                    | N 55-48-45 W                              | 1816                      |
| 115      | 45° 36' 15.863" N | 120° 17' 26.094" W |   |                           |
|          |                   |                    | East line of T2N R20E Section 34          | 1316                      |
| 116      | 45° 36' 28.858" N | 120° 17' 26.115" W |   |                           |
|          |                   |                    | North line of SW4 SW4 T2N R20E Section 35 | 1288                      |
| 117      | 45° 36' 28.864" N | 120° 17' 7.995" W  |   |                           |
|          |                   |                    | S 54-18-10 E                              | 1837                      |
| 118      | 45° 36' 15.889" N | 120° 16' 49.938" W |   |                           |
|          |                   |                    | Property Line                             | 2571                      |
| 119      | 45° 36' 15.916" N | 120° 16' 13.781" W |   |                           |
|          |                   |                    | East line of T2N R20E Section 35          | 1313                      |
| 120      | 45° 36' 28.879" N | 120° 16' 13.636" W |   |                           |
|          |                   |                    | North line of SW4 SW4 T2N R20E Section 36 | 1314                      |
| 121      | 45° 36' 28.811" N | 120° 15' 55.149" W |   |                           |
|          |                   |                    | S 54-31-59 E                              | 1855                      |
| 122      | 45° 36' 15.768" N | 120° 15' 36.841" W |   |                           |
|          |                   |                    | N 55-12-11 E                              | 3718                      |
| 123      | 45° 36' 41.590" N | 120° 14' 59.684" W |   |                           |
|          |                   |                    | North line of S2 T2N R21E Section 31      | 3945                      |
| 124      | 45° 36' 41.707" N | 120° 14' 4.192" W  |   |                           |
|          |                   |                    | S 1-20-25 W                               | 2649                      |
| 125      | 45° 36' 15.565" N | 120° 14' 4.803" W  |   |                           |
|          |                   |                    | Property Line                             | 680                       |
| 126      | 45° 36' 15.556" N | 120° 13' 55.247" W |   |                           |
|          |                   |                    | West line of E2 SE4 T2N R21E Section 31   | 2652                      |
| 127      | 45° 36' 41.727" N | 120° 13' 54.624" W |   |                           |
|          |                   |                    | North line of S2 T2N R21E Section 31      | 1376                      |
| 128      | 45° 36' 41.845" N | 120° 13' 35.276" W |   |                           |
|          |                   |                    | North line of S2 T2N R21E Section 32      | 1278                      |
| 129      | 45° 36' 41.735" N | 120° 13' 17.307" W |   |                           |
|          |                   |                    | S 54-13-56 E                              | 1857                      |
| 130      | 45° 36' 28.603" N | 120° 12' 59.077" W |   |                           |
|          |                   |                    | North line of SW4 SE4 T2N R21E Section 32 | 1325                      |
| 131      | 45° 36' 28.579" N | 120° 12' 40.446" W |   |                           |
|          |                   |                    | West line of SE4 SE4 T2N R21E Section 32  | 1304                      |
| 132      | 45° 36' 15.709" N | 120° 12' 40.962" W |   |                           |
|          |                   |                    | West line of NE4 NE4 T1N R21E Section 5   | 422                       |
| 133      | 45° 36' 11.546" N | 120° 12' 40.964" W |   |                           |
|          |                   |                    | Western ROW of Berthold Road              | 3976                      |
| 134      | 45° 36' 40.902" N | 120° 12' 8.506" W  |   |                           |
|          |                   |                    | Centerline of Cedar Springs Lane ROW      | 60                        |
| 135      | 45° 36' 40.864" N | 120° 12' 7.664" W  |   |                           |
|          |                   |                    | Eastern ROW of Berthold Road              | 4835                      |

**Table C-1. Micrositing Corridors Correlated to Figure C-8**

| Point ID | Latitude          | Longitude          | Description                               | Approximate Length (feet) |
|----------|-------------------|--------------------|---|---------------------------|
| 136      | 45° 36' 5.611" N  | 120° 12' 48.646" W | Property Line                             | 4268                      |
| 137      | 45° 36' 28.553" N | 120° 12' 21.031" W | North line of S2 S2 T2N R21E Section 33   | 3886                      |
| 138      | 45° 36' 28.453" N | 120° 11' 26.374" W | East line of SW4 SE4 T2N R21E Section 33  | 1322                      |
| 139      | 45° 36' 15.408" N | 120° 11' 26.700" W | West line of NE4 NE4 T1N R21E Section 4   | 1302                      |
| 140      | 45° 36' 2.558" N  | 120° 11' 26.697" W | South line of NE4 NE4 T1N R21E Section 4  | 1364                      |
| 141      | 45° 36' 2.554" N  | 120° 11' 7.513" W  | South line of NE4 NE4 T1N R21E Section 3  | 1275                      |
| 142      | 45° 36' 2.496" N  | 120° 10' 49.587" W | N 80-21-27 E                              | 3344                      |
| 143      | 45° 36' 10.260" N | 120° 10' 3.887" W  | S 88-32-19 E                              | 3037                      |
| 144      | 45° 36' 9.171" N  | 120° 9' 21.217" W  | S 30-17-51 E                              | 3100                      |
| 145      | 45° 35' 40.859" N | 120° 9' 4.674" W   | S 30-37-20 E                              | 1378                      |
| 146      | 45° 35' 28.295" N | 120° 8' 57.237" W  | S 89-56-7 E                               | 2125                      |
| 147      | 45° 35' 28.261" N | 120° 8' 27.373" W  | N 56-35-9 E                               | 2898                      |
| 148      | 45° 35' 47.847" N | 120° 7' 57.685" W  | N 63-37-44 E                              | 2445                      |
| 149      | 45° 36' 1.766" N  | 120° 7' 29.610" W  | North line of SE4 NE4 T1N R21E Section 1  | 329                       |
| 150      | 45° 36' 1.714" N  | 120° 7' 24.980" W  | Property Line                             | 3957                      |
| 151      | 45° 36' 40.770" N | 120° 7' 24.621" W  | South line of SW4 NW4 T2N R22E Section 31 | 872                       |
| 152      | 45° 36' 40.802" N | 120° 7' 12.353" W  | N 1-6-12 E                                | 1318                      |
| 153      | 45° 36' 53.808" N | 120° 7' 12.103" W  | Property Line                             | 2212                      |
| 154      | 45° 37' 6.801" N  | 120° 7' 24.502" W  | Property Line                             | 3974                      |
| 155      | 45° 37' 19.924" N | 120° 8' 1.476" W   | South line of NE4 SW4 T2N R21E Section 25 | 689                       |
| 156      | 45° 37' 19.948" N | 120° 8' 11.237" W  | N 1-19-42 E                               | 1317                      |
| 157      | 45° 37' 32.947" N | 120° 8' 10.936" W  | North line of NE4 SW4 T2N R21E Section 25 | 644                       |
| 158      | 45° 37' 32.965" N | 120° 8' 19.994" W  |   |                           |

**Table C-1. Micrositing Corridors Correlated to Figure C-8**

| Point ID | Latitude          | Longitude         | Description                               | Approximate Length (feet) |
|----------|-------------------|-------------------|---|---------------------------|
|          |                   |                   | West line of E2 NW4 T2N R21E Section 25   | 2633                      |
| 159      | 45° 37' 58.953" N | 120° 8' 19.643" W |   |                           |
|          |                   |                   | South line of T2N R21E Section 24         | 675                       |
| 160      | 45° 37' 58.942" N | 120° 8' 10.150" W |   |                           |
|          |                   |                   | N 0-16-31 E                               | 1314                      |
| 161      | 45° 38' 11.909" N | 120° 8' 10.212" W |   |                           |
|          |                   |                   | South line of N2 S2 T2N R21E Section 24   | 1993                      |
| 162      | 45° 38' 11.929" N | 120° 8' 38.248" W |   |                           |
|          |                   |                   | Property Line                             | 2628                      |
| 163      | 45° 37' 45.988" N | 120° 8' 38.513" W |   |                           |
|          |                   |                   | Property Line                             | 3953                      |
| 164      | 45° 37' 46.178" N | 120° 9' 34.122" W |   |                           |
|          |                   |                   | West line of NE4 NW4 T2N R21E Section 26  | 1281                      |
| 165      | 45° 37' 58.824" N | 120° 9' 33.956" W |   |                           |
|          |                   |                   | West line of E2 W2 T2N R21E Section 23    | 3984                      |
| 166      | 45° 38' 38.151" N | 120° 9' 33.868" W |   |                           |
|          |                   |                   | South line of NW4 NW4 T2N R21E Section 23 | 1302                      |
| 167      | 45° 38' 38.334" N | 120° 9' 52.185" W |   |                           |
|          |                   |                   | Property Line                             | 853                       |
| 168      | 45° 38' 38.424" N | 120° 10' 4.075" W |   |                           |
|          |                   |                   | Property Line                             | 1269                      |
| 169      | 45° 38' 50.881" N | 120° 10' 3.571" W |   |                           |
|          |                   |                   | Property Line                             | 852                       |
| 170      | 45° 38' 50.787" N | 120° 9' 51.583" W |   |                           |
|          |                   |                   | Property Line                             | 3999                      |
| 171      | 45° 39' 30.255" N | 120° 9' 52.058" W |   |                           |
|          |                   |                   | South line of N2 N2 T2N R21E Section 14   | 2629                      |
| 172      | 45° 39' 30.014" N | 120° 9' 15.048" W |   |                           |
|          |                   |                   | East line of NE4 NW4 T2N R21E Section 14  | 1312                      |
| 173      | 45° 39' 42.967" N | 120° 9' 14.997" W |   |                           |
|          |                   |                   | Property Line                             | 5284                      |
| 174      | 45° 39' 16.790" N | 120° 8' 38.229" W |   |                           |
|          |                   |                   | Property Line                             | 1302                      |
| 175      | 45° 39' 16.905" N | 120° 8' 56.552" W |   |                           |
|          |                   |                   | West line of E2 SE4 T2N R21E Section 14   | 2665                      |
| 176      | 45° 38' 50.598" N | 120° 8' 56.717" W |   |                           |
|          |                   |                   | West line of NE4 NE4 T2N R21E Section 23  | 1282                      |
| 177      | 45° 38' 37.944" N | 120° 8' 56.667" W |   |                           |
|          |                   |                   | South line of NE4 NE4 T2N R21E Section 23 | 1316                      |
| 178      | 45° 38' 37.818" N | 120° 8' 38.143" W |   |                           |
|          |                   |                   | North line of S2 NW4 T2N R21E Section 24  | 2651                      |
| 179      | 45° 38' 37.845" N | 120° 8' 0.835" W  |   |                           |
|          |                   |                   | S 55-6-18 E                               | 1864                      |
| 180      | 45° 38' 24.869" N | 120° 7' 42.231" W |   |                           |
|          |                   |                   | Property Line                             | 2641                      |

**Table C-1. Micrositing Corridors Correlated to Figure C-8**

| Point ID          | Latitude          | Longitude          | Description                            | Approximate Length (feet) |
|-------------------|-------------------|--------------------|--|---------------------------|
| 181               | 45° 38' 37.849" N | 120° 7' 23.604" W  |  |                           |
|                   |                   |                    | N 29-42-36 W                           | 1417                      |
| 182               | 45° 38' 50.832" N | 120° 7' 31.013" W  |  |                           |
|                   |                   |                    | North line of T2N R21E Section 24      | 796                       |
| 183               | 45° 38' 50.826" N | 120° 7' 42.209" W  |  |                           |
|                   |                   |                    | West line of E2 E2 T2N R21E Section 18 | 4307                      |
| 184               | 45° 39' 33.340" N | 120° 7' 42.258" W  |  |                           |
|                   |                   |                    | N 68-24-2 W                            | 8476                      |
| 185               | 45° 40' 14.476" N | 120° 9' 26.160" W  |  |                           |
|                   |                   |                    | N 3-57-8 W                             | 10019                     |
| 186               | 45° 41' 53.252" N | 120° 9' 32.984" W  |  |                           |
|                   |                   |                    | N 3-57-13 W                            | 867                       |
| 187               | 45° 42' 1.802" N  | 120° 9' 33.575" W  |  |                           |
|                   |                   |                    | N 88-29-4 E                            | 526                       |
| 188               | 45° 42' 1.998" N  | 120° 9' 26.167" W  |  |                           |
|                   |                   |                    | Property Line                          | 4794                      |
| 1 (End)           | 45° 42' 18.655" N | 120° 9' 7.051" W   |  |                           |
| <b>EXCLUSIONS</b> |                   |                    |  |                           |
| 189 (Start)       | 45° 41' 48.915" N | 120° 8' 4.917" W   |  |                           |
|                   |                   |                    | N 89-47-9 E                            | 1771                      |
| 190               | 45° 41' 49.008" N | 120° 7' 39.970" W  |  |                           |
|                   |                   |                    | S 0-16-8 W                             | 6330                      |
| 191               | 45° 40' 46.526" N | 120° 7' 40.263" W  |  |                           |
|                   |                   |                    | N 21-33-45 W                           | 6559                      |
| 189 (End)         | 45° 41' 48.915" N | 120° 8' 4.917" W   |  |                           |
| 192 (Start)       | 45° 41' 48.686" N | 120° 9' 4.465" W   |  |                           |
|                   |                   |                    | N 89-46-40 E                           | 1986                      |
| 193               | 45° 41' 48.795" N | 120° 8' 36.485" W  |  |                           |
|                   |                   |                    | S 48-31-32 E                           | 421                       |
| 194               | 45° 41' 45.540" N | 120° 8' 32.803" W  |  |                           |
|                   |                   |                    | S 21-55-21 E                           | 11213                     |
| 195               | 45° 39' 59.025" N | 120° 7' 49.935" W  |  |                           |
|                   |                   |                    | N 68-29-31 W                           | 5609                      |
| 196               | 45° 40' 26.153" N | 120° 8' 58.774" W  |  |                           |
|                   |                   |                    | N 3-56-40 W                            | 8371                      |
| 192 (End)         | 45° 41' 48.686" N | 120° 9' 4.465" W   |  |                           |
| 197 (Start)       | 45° 36' 4.160" N  | 120° 5' 42.536" W  |  |                           |
|                   |                   |                    | Property Line                          | 838                       |
| 197 (End)         | 45° 36' 4.160" N  | 120° 5' 42.536" W  |  |                           |
| 198 (Start)       | 45° 33' 25.818" N | 120° 5' 28.678" W  |  |                           |
| 198 (End)         | 45° 33' 25.818" N | 120° 5' 28.678" W  |  |                           |
| 199 (Start)       | 45° 36' 15.537" N | 120° 13' 36.679" W |  |                           |
|                   |                   |                    | Property Line                          | 5120                      |
| 199 (End)         | 45° 36' 15.537" N | 120° 13' 36.679" W |  |                           |

**Table C-2. Montague Disturbance Calculations—Permanently Disturbed Areas**

| Facilities  | Notes | Units of Measurement            | Montague            |                 |                    |       |
|---|-------|---------------------------------|---------------------|-----------------|--------------------|-------|
|   |       |                                 | Dimensions per Unit | Number of Units | Acres              | Miles |
| <b>Turbine Pads/Towers</b>  | 1     | Square feet per tower           | 1,660               | 269             | 10.25              |       |
| <b>Substations/O&amp;M Facility(s)</b>  |       |                                 |                     |                 |                    |       |
| Collector Substations   | 2     | Acres                           | 5                   | 2               | 10                 |       |
| O&M Facility(s)   | 3     | Acres                           | 3                   | 2               | 6                  |       |
| <b>Meteorological Towers (self-supporting)</b>  | 4     | Square feet per tower           | 900                 | 8               | 0.17               |       |
| <b>Central Electrical System</b>  |       |                                 |                     |                 |                    |       |
| Overhead 34.5-kV Collector Line Structures  | 5,6   | Square feet per 2-pole location | 24                  | 720             | 0.397              |       |
| <b>230-kV Transmission Line between Montague Collector Substations</b>                  |       |                                 |                     |                 |                    |       |
| Overhead 230-kV Collector Line Structures   | 7     | Square feet per 2-pole location | 40                  | 86              | 0.079              |       |
| <b>“Home Run” from Montague Collector Substations to Interconnection (230-kV route)</b> |       |                                 |                     |                 |                    |       |
| Overhead 230-kV Collector Line Structures   | 8     | Square feet per 2-pole location | 40                  | 93              | 0.085              |       |
| <b>Access Roads and Turnarounds</b>   |       |                                 |                     |                 |                    |       |
| Improved Existing Roads to 20 feet (except county roads)                                | 9     | Feet of width per linear foot   | 10                  | 26,974          | 6.19               | 5     |
| Improved Existing County Roads to 30 feet (within county ROW)                           | 10    | Feet of width per linear foot   | 14                  | 102,130         | 32.8               | 19    |
| New 20-foot turbine string roads and road to met tower(s)                               | 11    | Feet of width per linear foot   | 20                  | 365,876         | 168.0              | 69    |
| New 27-foot turbine spur roads  | 12    | Feet of width per linear foot   | 20                  | 7,263           | 3.3                | 1     |
| <b>Total Permanently Disturbed Area</b>   |       |                                 |                     |                 | <b>237.3 acres</b> |       |

Notes: This table is based on the maximum layout facility component locations as shown in Figures C-4 and P-11, and the largest footprint for each facility based on the range of turbine types and support structures under consideration.

- 1 Includes graveled area of pad, transformer, and disturbed area for each tower, excluding access road. The dimensions are based on a circular area of disturbance with a radius of 23 feet (includes a turbine tower with a radius of up to 8 feet and surrounding gravel area with a radius of up to 15 feet). These dimensions represent the maximum potential graveled area for the range of turbine types under consideration.
- 2 Includes the substation and surrounding gravel within the fenced property. No temporary disturbance will occur outside the fenced area.
- 3 Includes building and graveled parking and storage areas.
- 4 Includes met tower measuring approximately 23 feet wide and surrounding graveled area.
- 5 Assumes poles are spaced an average of 200 feet apart. Disturbance area is also presented in square feet.
- 6 Assumes worst-case scenario with 27 miles of overhead collectors, which is equal to 30 percent of the total miles of collector cable. Including the worst-case value results in double counting of collector impacts because underground temporary disturbance also assumes the worst-case scenario. These miles are not shown in Figures C-4 and P-11 or included in Table P-11, which is based on the geographic information system (GIS) program.
- 7 The overhead line will be a maximum of 9 miles in length. The impacts assume poles will be placed as close as 500 feet. Disturbance area is also presented in square feet. These miles are not shown in Figures C-4 and P-11 or included in Table P-11, which is based on the GIS program.
- 8 The overhead line will be a maximum of 10 miles in length. The impacts assume poles will be placed as close as 500 feet. Disturbance area is also presented in square feet. These miles are not shown in Figures C-4 and P-11 or included in Table P-11, which is based on the GIS program.

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**Table C-2. Montague Disturbance Calculations—Permanently Disturbed Areas**

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- 9 Assumes maximum of 20 feet of travel lanes or 10 feet of improvements to existing 10-foot road. For roads that are already 20 feet in width, there will be no permanent impacts beyond this width. These roads will only be temporarily widened for construction. Therefore, the length of existing roads needing improvements is greater for temporary impacts than for permanent impacts.
- 10 Assumes maximum of 30 feet of travel lanes or 14 feet of improvements to existing 16-foot road.
- 11 Assumes maximum of 20 feet of travel lanes.
- 12 Assumes 27-foot spur road from the access road to each turbine. The spur road will be 60 feet long when measured from center of tower to center of string road, which is equal to 60 feet minus 10 feet (1/2 of access road width) minus 23 feet (distance from center of turbine to beginning of road).

**Table C-3. Montague Disturbance Calculations—Temporarily Disturbed Areas**

| Facilities   | Notes | Units of Measurement            | Montague            |                 |        |       |
|--|-------|---------------------------------|---------------------|-----------------|--------|-------|
|  |       |                                 | Dimensions per Unit | Number of Units | Acres  | Miles |
| <b>Substations/O&amp;M Facility(s)</b>   |       |                                 |                     |                 |        |       |
| Collector Substations  | 1     | Acres                           | 0                   | 2               | 0      |       |
| O&M Facility(s)  | 2     | Acres                           | 7                   | 2               | 14     |       |
| Meteorological Towers (self-supporting)  | 3     | Square feet per tower           | 1600                | 8               | 0.29   |       |
| <b>Turbine Tower Construction/Staging Areas</b>  |       |                                 |                     |                 |        |       |
| Central staging and storage areas for collector lines and other equipment                      | 4     | Acres                           | 5                   | 2               | 10     |       |
| Staging areas (usually 1 per string)   | 5     | Acres                           | 2.5                 | 23              | 57.5   |       |
| Staging area at each tower site  | 6     | Square feet per tower site      | 158,340             | 269             | 977.8  |       |
| <b>Central Electrical System</b>   |       |                                 |                     |                 |        |       |
| Underground collector lines  |       |                                 |                     |                 |        |       |
| 1 Collector  | 7     | Feet of width per linear foot   | 24                  | 387,928         | 213.73 | 73    |
| 2 Collectors   | 7     | Feet of width per linear foot   | 32                  | 16,879          | 12.40  | 3     |
| 3 Collectors   | 7     | Feet of width per linear foot   | 40                  | 0               | 0.00   | 0     |
| 4 Collectors   | 7     | Feet of width per linear foot   | 48                  | 0               | 0.00   | 0     |
| 5 Collectors   | 7     | Feet of width per linear foot   | 56                  | 0               | 0.00   | 0     |
| Temporary access for overhead 34.5-kV Collector Line   | 8,9   | Feet of width per linear foot   | 12                  | 143,911         | 39.65  | 27    |
| Temporary disturbance around overhead 34.5-kV poles  | 9,10  | Square feet per 2-pole location | 1576                | 720             | 26.05  |       |
| <b>230-kV Transmission Line between Montague Collector Substations (230-kV route)</b>          |       |                                 |                     |                 |        |       |
| Temporary Access for Overhead 230-kV Line  | 11    | Feet of width per linear foot   | 12                  | 43,032          | 11.85  | 8     |
| Temporary Disturbance Around Overhead 230-kV Collector Line Structures                         | 12    | Square feet per 2-pole location | 1560                | 86              | 3.08   |       |
| <b>“Home Run” from Montague Central Collector Substation to Interconnection (230 kV route)</b> |       |                                 |                     |                 |        |       |
| Temporary Access for Overhead 230-kV Line  | 13    | Feet of width per linear foot   | 12                  | 46,526          | 12.82  | 9     |
| Temporary Disturbance Around Overhead 230-kV Collector Line Structures                         | 14    | Square feet per 2-pole location | 1560                | 93              | 3.33   |       |
| <b>Roads</b>   |       |                                 |                     |                 |        |       |
| Temporarily disturbed area during road construction  |       |                                 |                     |                 |        |       |
| Existing road improvements, except county roads (temporarily widened to 80 feet)               | 15    | Feet of width per linear foot   | 60                  | 26,974          | 37.15  | 5     |
| Existing county road improvements (temporarily widened to 60 feet, within county ROW)          | 16    | Feet of width per linear foot   | 30                  | 102,130         | 70.34  | 19    |
| New 20-foot turbine string roads and road to met   | 17    | Feet of width                   | 60                  | 365,876         | 503.96 | 69    |

**Table C-3. Montague Disturbance Calculations—Temporarily Disturbed Areas**

| Facilities                                | Notes | Units of Measurement          | Montague            |                 |                      |       |
|---|-------|-------------------------------|---------------------|-----------------|----------------------|-------|
|   |       |                               | Dimensions per Unit | Number of Units | Acres                | Miles |
| tower(s) (temporarily widened to 80 feet) |       | per linear foot               |                     |                 |                      |       |
| New 27-foot turbine spur roads            | 18    | Feet of width per linear foot | 60                  | 7,263           | 10.00                | 1     |
| Crane Paths                               | 19    | Feet of width per linear foot | 55                  | 52,682          | 66.52                | 10    |
| <b>Total Temporarily Disturbed Area</b>   |       |                               |                     |                 | <b>2070.49 acres</b> |       |

Notes: This table is based on the maximum layout facility component locations as shown in Figures C-4 and P-11, and the largest footprint for each facility based on the range of turbine types and support structures under consideration.

- 1 Assumes contractor will permanently impact entire substation area. Therefore, no temporary impacts will occur.
- 2 Assumes contractor will temporarily impact area surrounding the permanent footprint of the operations and maintenance building(s) and parking area for equipment staging. Collector cables and other equipment may be stored here as a central staging area.
- 3 Assumes contractor will temporarily disturb a total of up to 2,500 square feet (sq. ft.) during construction, of which 900 sq. ft. will remain permanently impacted. The 1,600 sq. ft. represents 2,500 sq. ft. minus 900 sq. ft.
- 4 Central staging and storage area.
- 5 Staging area at each turbine string.
- 6 Assumes a worst-case area of disturbance around towers of approximately 160,000 sq. ft. at each of the turbine locations minus the permanent graveled area included in Table C-2. This worst-case disturbance area is larger than the typical staging area and represents the worst-case scenario. The typical disturbance area measures approximately 53,000 square feet around the 1.5-MW turbines (130-foot radius for the 77-meter/253-foot-diameter blades) or approximately 85,000 square feet around the 3.0-MW turbines (164-foot radius for the 100-meter/328-foot-diameter blades), as shown in Figure B-2.
- 7 Assumes 12 feet on either side of the collector line trench for spoil and travel paths. Trenches are separated by 8 feet for heat dissipation. This distance includes the width of the actual collector line trenches.
- 8 Temporary disturbance will be an average of 12 feet wide.
- 9 Assumes worst-case scenario with 27 miles of overhead collectors, which is equal to 30 percent of the total miles of collector cable. Including the worst-case value results in double-counting of collector impacts because underground temporary disturbance also assumes the worst-case scenario. These miles are not shown in Figures C-4 and P-11 or included in Table P-11, which is based on the geographic information system (GIS) program.
- 10 Assumes pole spacing as close as 200 feet, and a temporary disturbance of 40x40 feet at each two-pole location minus the 24-sq.-ft. permanent impact.
- 11 Temporary disturbance will be an average of 12 feet wide.
- 12 Assumes pole spacing as close as 500 feet, and a temporary disturbance of 40x40 feet at each two-pole location minus the 40-sq.-ft. permanent impact.
- 13 Temporary disturbance will be an average of 12 feet wide. This calculation is based on the maximum length of the "home run" (the alternate route).
- 14 Assumes pole spacing as close as 500 feet, and a temporary disturbance of 40x40 feet at each two-pole location minus the 40-sq.-ft. permanent impact. This calculation is based on the maximum length of the transmission line (the alternate route).
- 15 Assumes the 10-foot existing road will be temporarily widened to 80 feet. The temporary disturbance will be equal to 80-foot total width during construction (for crane path plus access road) minus the 20-foot permanent width.
- 16 Assumes the 16-foot existing road will be temporarily widened to a maximum of 60 feet within the County right-of-way. The County roads will be widened up to 60 feet for portions of the road to allow for wider turning radii and/or straightening of tight corners. The temporary disturbance will be equal to 60-foot total width during construction minus the 30-foot permanent width.
- 17 The temporary disturbance will be equal to 80-foot total width during construction (for crane path plus access road) minus the 20-foot permanent width.
- 18 Assumes 27-foot spur road from the access road to each turbine that would be 60 feet long when measured from center of tower to center of string road, which is equal to 60 feet minus 10 feet (1/2 of access road width) minus 23 feet (distance from center of turbine to beginning of road).
- 19 Crane path disturbances for locations where crane paths do not parallel access roads.

**Table C-4. Summary of Worst-Case Scenario by Exhibit**

| <b>Exhibit with Impact Analysis</b> | <b>Summary of Worst-Case Scenario</b>  |
|-------------------------------------|--|
| C                                   | Same as Exhibit P.   |
| I                                   | Same as Exhibit P.   |
| J                                   | Maximum turbine layout (269 turbines); maximum number of jurisdictional crossings and impacts.   |
| K                                   | Same as Exhibit P.   |
| L                                   | Maximum turbine layout; more visible from within the 10-mile analysis area based on Zone of Visual Impact (ZVI) analysis presented in Exhibit R.   |
| P                                   | Maximum turbine layout (269 turbines), moved into highest-quality habitat; highest level of temporary and permanent land impacts and highest level of impacts to highest-quality habitat.  |
| Q                                   | Maximum turbine layout (269 turbines), moved into highest-quality habitat; highest level of temporary and permanent land impacts and highest level of impacts to highest-quality habitat; highest number of Facility components in proximity to threatened and endangered species. |
| R                                   | Maximum turbine layout; more visible from within the 10-mile analysis area based on ZVI analysis.  |
| S                                   | Same as Exhibit P.   |
| X                                   | Minimum turbine layout; highest predicted noise level.   |

Note: The number of turbines will not exceed 269.

# Figures