Tillamook County

DEPARTMENT OF COMMUNITY DEVELOPMENT BUILDING, PLANNING & ON-SITE SANITATION SECTIONS



1510 - B Third Street Tillamook, Oregon 97141 www.tillamookcounty.gov 503-842-3408

Land of Cheese, Trees and Ocean Breeze

VARIANCE REQUEST #851-25-000096-PLNG VERIZON COMUNICATIONS FACILITY

NOTICE TO MORTGAGEE, LIENHOLDER, VENDOR OR SELLER: ORS 215 REQUIRES THAT IF YOU RECEIVE THIS NOTICE, IT MUST BE PROMPTLY FORWARDED TO THE PURCHASER

April 25, 2025

Dear Property Owner:

This is to confirm that the Tillamook County Department of Community Development **APPROVED WITH CONDITIONS** the above-cited request on April 25, 2025. A copy of the application, along with a map of the request area and the applicable criteria for review are available for inspection on the Tillamook County Department of Community Development website: https://www.tillamookcounty.gov/commdev/landuseapps and is also available for inspection at the Department of Community Development office located at 1510-B Third Street, Tillamook, Oregon 97141.

Appeal of this decision. This decision may be appealed to the Tillamook County Planning Commission, who will hold a public hearing. Forms and fees must be filed in the office of this Department before **4:00pm on May 7**, **2025.** This decision will become final on May 7, 2025, after 4:00pm unless an appeal is filed in accordance with Tillamook County Land Use Ordinance Article X.

Request: Variance request to reduce the required 30-foot property line setback to 4-feet 7-

inches for the siting of a new wireless communications facility.

Location: Subject property is located northeast of the Unincorporated Community of

Siskeyville, at 300 Muesial Creek Road and is designated as Tax Lot 400 of Section 25, Township 1 North, Range 8 West of the Willamette Meridian,

Tillamook County, Oregon.

Zone: Forest (F)

Applicant: Tessie Murakami & Sarah Blanchard, 5200 SW Meadows Road, STE 150, Lake Oswego

OR 97035

Property

Owner: Oregon Department of Forestry, 5005 3rd Street, Tillamook, OR 97141

CONDITIONS OF APPROVAL

Section 8.060: COMPLIANCE WITH CONDITIONS and Section 8.070: TIME LIMIT requires compliance with approved plans and conditions of this decision, and all other ordinance provisions, and allows 24 months for compliance with Conditions and start of construction. Failure to comply with the Conditions of Approval and ordinance provisions could result in nullification of this approval.

- 1. The applicant and property owner shall obtain all Federal, State, and Local permits, as applicable.
- 2. Variance approval is to reduce the required 30-foot property line setback to 4-feet 7-inches as depicted on the site plan included in "Exhibit B" of the applicant's submittal for the placement of the monopole and communications facility.
- 3. Development shall adhere to the applicable Conditions of Approval for Conditional Use #851-24-000394-PLNG.
- 4. This approval shall be void on April 25, 2027, unless construction of approved plans has begun, or an extension is requested from, and approved by this Department.

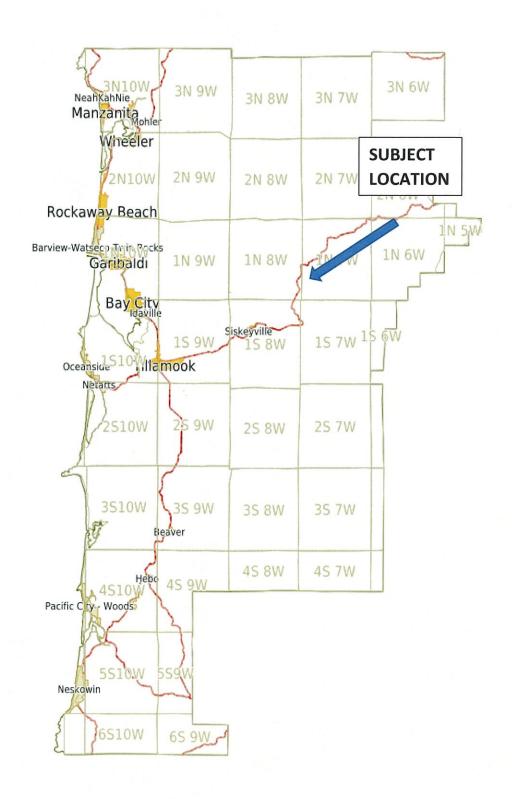
Sincerely,

Tillamook County Department of Community Development

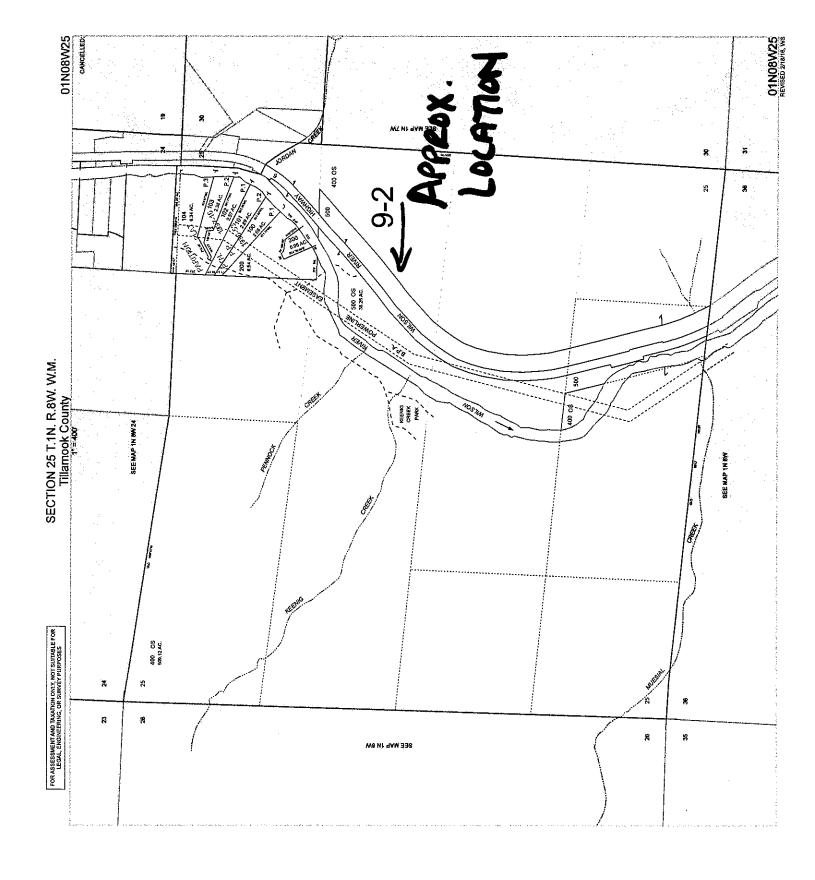
Sarah Absher, CFM, Director

Enc.: Vicinity, Assessor's and Zoning maps

VICINITY MAP

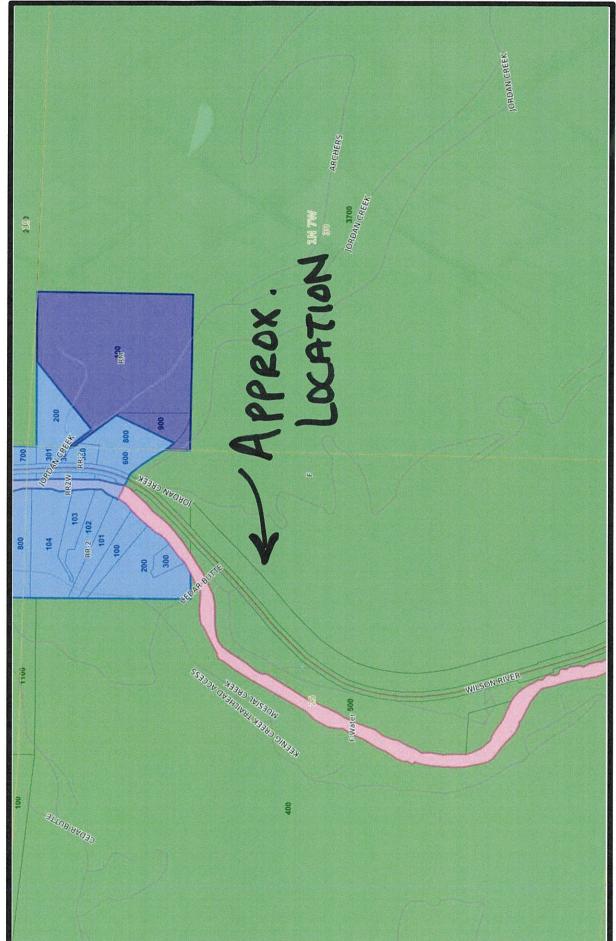


#851-25-000096-PLNG: Communications Facility Variance Request



Map





Generated with the GeoMOOSE Printing Utilities

Tillamook County

DEPARTMENT OF COMMUNITY DEVELOPMENT BUILDING, PLANNING & ON-SITE SANITATION SECTIONS



1510 – B Third Street Tillamook, Oregon 97141 www.tillamook.or.us

Building (503) 842-3407 Planning (503) 842-3408 On-Site Sanitation (503) 842-3409 FAX (503) 842-1819 Toll Free 1 (800) 488-8280

Land of Cheese, Trees and Ocean Breeze

VARIANCE REQUEST #851-25-000096-PLNG OREGON DEPARTMENT OF FORESTRY VERIZON COMUNICATIONS FACILITY

Decision: APPROVED WITH CONDITIONS

Staff Report Date: April 25, 2025

Report Prepared By: Sarah Absher, CFM, Director

I. GENERAL INFORMATION:

Request:

Variance request to reduce the required 30-foot property line setback to 4-feet 7-inches

for the siting of a new wireless communications facility (Exhibit B).

Location:

Subject property is located northeast of the Unincorporated Community of Siskeyville, at 300 Muesial Creek Road and is designated as Tax Lot 400 of Section 25, Township 1 North, Range 8 West of the Willamette Meridian, Tillamook County, Oregon

(Exhibit A).

Zone:

Forest (F)

Applicant:

Tessie Murakami & Sarah Blanchard, 5200 SW Meadows Road, STE 150, Lake

Oswego, OR 97035

Property Owner:

Oregon Department of Forestry, 5005 3rd Street, Tillamook, OR 97141

Property & Vicinity Description: The subject property encompasses approximately 509.12-acres of forested landscape and rugged terrain (Exhibit A). County records indicate the subject property is developed with the Keenig Creek Campground and associated facilities with the remainder as classified forest lands (Exhibit A).

Zoning in the area consists of Forest (F), Recreation Management (RM) and Rural Residential (RR-2) zoned properties (Exhibit A). Aerial imagery confirms the forested areas within the vicinity are vacant of improvements and similar to the subject property, these forested areas consist of forested landscape and rugged terrain. Residentially zoned properties in the vicinity, north of the subject property, are improved with residential structures.

There are mapped wetlands features located in the vicinity and on the subject property, including the Wilson River and mapped creeks as depicted on the Oregon Statewide Wetlands Inventory Map (Exhibits A). These features are not located within close proximity to the proposed areas for development of a new wireless communications facility (Exhibits A & B). The subject property is located within Flood Zone D as depicted on FEMA FIRM 41057C0475F dated September 28, 2018, and is not within an Area of Special Flood Hazard (Exhibit A). The subject property is within a mapped area of known geologic hazard (Exhibit A). Identified hazards include shallow landslide susceptibility (Exhibit A).

II. <u>APPLICABLE ORDINANCE AND COMPREHENSIVE PLAN PROVISIONS:</u>

The desired use is governed through the following Sections of the Tillamook County Land Use Ordinance (TCLUO). The suitability of the proposed use, in light of these criteria, is discussed in Section III of this report:

A. Section 3.004: Forest (F) Zone

B. Article VIII: Variance Procedure and Criteria

III. ANALYSIS:

A. Section 3.004: Forest (F) Zone

PURPOSE: The purpose of the Forest (F) Zone is to protect and maintain forest lands for grazing, and rangeland use and forest use, consistent with existing and future needs for agricultural and forest products. The F zone is also intended to allow other uses that are compatible with agricultural and forest activities, to protect scenic resources and fish and wildlife habitat, and to maintain and improve the quality of air, water and land resources of the county.

...

1. Section 3.004(9) Siting Standards For Dwellings And Structures In Forest Zones

The following siting criteria or their equivalent shall apply to all new dwellings and structures in forest zones. These criteria are designed to make such uses compatible with forest operations, to minimize wildfire hazards and risks and to conserve values found on forest lands. The County shall consider the criteria in this section together with the requirements of Section (10) to identify the building site:

..

b) The minimum front, rear, and side yards shall all be 30 feet

. . .

Findings: Applicant is requesting to reduce the required 30-foot property line setback to 4-feet 7-inches for the siting of an 80-foot monopole as shown on the site plan in "Exhibit B" of this report. Variance approval is required to site the monopole at the requested location with the reduced setback.

- (d) Dwellings and structures shall be sited on the parcel so that:
 - 1. They have the least impact on nearby or adjoining forest or agricultural lands;
 - 2. The siting ensures that adverse impacts on forest operations and accepted farming practices on the tract will be minimized;
 - 3. The amount of forest lands used to site access roads, service corridors, the dwelling and structures is minimized; and

- 4. The risks associated with wildfire are minimized.
- (e) Siting criteria satisfying Subsection (d) may include setbacks from adjoining properties, clustering near or among existing structures, siting close to existing roads and siting on that portion of the parcel least suited for growing trees.

Findings: Staff finds that these requirements have been met through approved Conditional Use #851-24-000394-PLNG.

(f) The applicant shall provide evidence to the governing body that the domestic water supply is from a source authorized in accordance with the Water Resources Department's administrative rules for the appropriation of ground water or sur65b /&face water and not from a Class II stream as defined in the Forest Practices rules (OAR chapter 629).

Findings: Domestic water is not required for the proposed development (Exhibit B).

(g) As a condition of approval, if road access to the dwelling is by a road owned and maintained by a private party or by the Oregon Department of Forestry, the U.S. Bureau of Land Management, or the U.S. Forest Service, then the applicant shall provide proof of a long-term road access use permit or agreement. The road use permit may require the applicant to agree to accept responsibility for road maintenance.

Findings: The proposal is not for the siting of a dwelling (Exhibits A & B).

2. Section 3.004(10): Fire Siting Standards for Dwelling and Structures:

(c) The owners of the dwellings and structures shall maintain a primary fuel-free break area surrounding all structures and clear and maintain a secondary fuel-free break area on land surrounding the dwelling that is owned or controlled by the owner in accordance with the provisions in "Recommended Fire Siting Standards for Dwellings and Structures and Fire Safety Design Standards for Roads" dated March 1, 1991, and published by the Oregon Department of Forestry and shall demonstrate compliance with Table (10)(c)1...

Findings: The subject property is located is within the fire protection service area of the Oregon Department of Forestry.

TCLUO Article 11 defines a Structure as "Anything constructed or installed or portable, the use of which requires a location on a parcel of land". As a Condition of Approval, the Applicant shall maintain the required fuel-free fire break areas around structures located on the subject property in accordance with TCLUO Section 3.004(10)(c). Staff finds that this requirement has been addressed and will be met through compliance with the Conditions of Approval of Conditional Use #851-24-000394-PLNG.

A. Article VIII: Variance Procedure and Criteria; including Section 4.005 Residential and Commercial Zone Standards

The purpose of a VARIANCE is to provide relief when a strict application of the dimensional requirements for lots or structures would cause an undue or unnecessary hardship by rendering the parcel incapable of reasonable economic use. No VARIANCE shall be granted to allow a use of property not authorized by this Ordinance.

Article VIII of the Tillamook County Land Use Ordinance governs the applications of Variances within the County. Section 4.005 lists the purposes of the land use standards in each of the residential and commercial zones.

1. **Section 8.020** requires public notice in accordance with TCLUO Section 10.070 which requires notification of the request to be published in a newspaper of local distribution and mailed to landowners within 250 feet of the subject property.

Findings: Notice of this Variance request was mailed to property owners within 750-feet and affected agencies on March 31, 2025. Comments were received from the Oregon Department of Transportation (ODOT) and Oregon Department of Fish and Wildlife. Comments are included in "Exhibit C" of this report.

- 2. Section 8.030 states that a Variance may be authorized if the applicants/property owners adequately demonstrate that the proposed use satisfies all relevant requirements, including all four review criteria in Section 8.030. These criteria, including Section 4.005 Residential and Commercial Zone Standards, along with Staff's findings and conclusions are indicated below:
 - (1) Circumstances attributable either to the dimensional, topographical, or hazardous characteristics of legally existing lot, or to the placement of structures thereupon, would effectively preclude the enjoyment of a substantial property right enjoyed by the majority of landowners in the vicinity, if all applicable standards were to be met. Such circumstances may not be self-created.

Findings: Applicant states that the proposed site for the 80-foot monopole was selected after careful consideration of the topographic features of the land (topographic constraints), ensuring the structure will effectively meet coverage requirements with strong and reliable service along the highway (Exhibit B). Applicant adds that the tower must be positioned at this exact distance from the highway to take advantage of the natural line of site coverage (Exhibit B).

Staff finds that the circumstances and constraints identified by the Applicant are not a self-created issue, and that relief to the required 30-foot setback ensures the ability to site the monopole on the subject property.

Staff concludes this criterion is met.

(2) A variance is necessary to accommodate a use or accessory use on the lot which can be reasonably expected to occur within the zone or vicinity.

Findings: Applicant states the requested variance is necessary to site the proposed 80-foot monopole tower along Highway 6 to accommodate the wireless infrastructure needed to address the substantial coverage gap in the area, and that the variance will allow the placement of the monopole in a way that provides effective service coverage while complying with the unique topographic, dimensional and zoning requirements of the property (Exhibit B).

For the reasons stated by the Applicant, staff finds the Variance is necessary to accommodate a use on the property which can be reasonably expected to occur within the zone given approval of the project through approved Conditional Use #851-24-000394-PLNG. Staff concludes that this criterion has been met.

(3) The proposed variance will comply with the purposes of relevant development standards as enumerated in Section 4.005 and will preserve the right of adjoining property owners to use and enjoy their land for legal purposes.

Section 4.005: Residential and Commercial Zone Standards of the Tillamook County Land Use Ordinance lists the purposes of the land use standards in each of the residential and commercial zones as follows:

- (1) To ensure the availability of private open spaces;
- (2) To ensure that adequate light and air are available to residential and commercial structures;
- (3) To adequately separate structures for emergency access:
- (4) To enhance privacy for occupants or residences;
- (5) To ensure that all private land uses that can be reasonably expected to occur on private land can be entirely accommodated on private land, including but not limited to dwellings, shops, garages, driveway, parking, areas for maneuvering vehicles for safe access to common roads, alternative energy facilities, and private open spaces;
- (6) To ensure that driver visibility on adjacent roads will not be obstructed;
- (7) To ensure safe access to and from common roads;
- (8) To ensure that pleasing view are neither unreasonably obstructed nor obtained;
- (9) To separate potentially incompatible land uses;
- (10) To ensure access to solar radiation for the purpose of alternative energy production.

Findings: Findings: The proposed use, siting of an 80-foot monopole as part of a larger project to provide cellular coverage along the Highway 6 corridor, is a use that is not residential in nature. Applicant states the placement and height of the monopole have been carefully considered to avoid any disruption to adjacent properties. Surrounding properties are primarily forest zoned, and the proposed development of the monopole is not near residential properties. Applicant adds that the location and height of the tower ensure light, air and views are not blocked in a manner that would impact neighboring landowners' enjoyment of their property (Exhibit B).

The County regulates views through compliance with building height requirements. Staff finds the height of monopole complies with the maximum height requirement for structures in the Forest (F) zone outlined in TCLUO Section 3.004 (Exhibit B).

For the reasons outlined above and stated in the Applicant's submittal included as "Exhibit B" of this report, staff concludes the proposed variance complies with the purposes of relevant development standards as enumerated in Section 4.005 and preserves the right of adjoining property owners to use and enjoy their land for legal purposes. This criterion is met.

(4) There are no reasonable alternatives requiring either a lesser or no variance.

Findings: Applicant states the unique topography of the property plays a significant role in determining the location of the 80-foot monopole, and that due to natural features such as elevation changes, slopes and the layout of surrounding roads and properties, the placement of the tower in any other location would fail to meet service coverage requirements or would cause excessive interference with the surrounding environment (Exhibit B). For the reasons outlined in Applicant's submittal in "Exhibit B", Applicant states there are no reasonable alternatives requiring either a less or no variance.

Staff concurs with the Applicant's justification and concludes this criterion has been met.

IV. DECISION: APPROVED WITH CONDITIONS

Staff concludes, based on the findings of fact and other relevant information in the record, that the Applicant has satisfied/or is able to satisfy the applicable ordinance requirements through the Conditions of Approval, and therefore, approves the request subject to the provisions in Section V below.

By accepting this approval the applicants/property owners agree to indemnify, defend, save and hold harmless Tillamook County, and its officers, agents, and employees from any claim, suit, action or activity undertaken under this approval, including construction under a Building Permit approved subject to this approval. The applicants/property owners shall obtain all of the necessary local, state, and federal permits and comply with all applicable regulations for the proposed building site.

This decision may be appealed to the Tillamook County Planning Commission, who will hold a public hearing. Forms and fees must be filed in the office of this Department before 4:00 PM on May 7, 2025.

V. <u>CONDITIONS OF APPROVAL:</u>

Section 8.060: COMPLIANCE WITH CONDITIONS and Section 8.070: TIME LIMIT requires compliance with approved plans and conditions of this decision, and all other ordinance provisions, and allows 24 months for compliance with Conditions and start of construction. Failure to comply with the Conditions of Approval and ordinance provisions could result in nullification of this approval.

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- 3. Development shall adhere to the applicable Conditions of Approval for Conditional Use #851-24-000394-PLNG.
- 4. This approval shall be void on April 25, 2027, unless construction of approved plans has begun, or an extension is requested from, and approved by this Department.

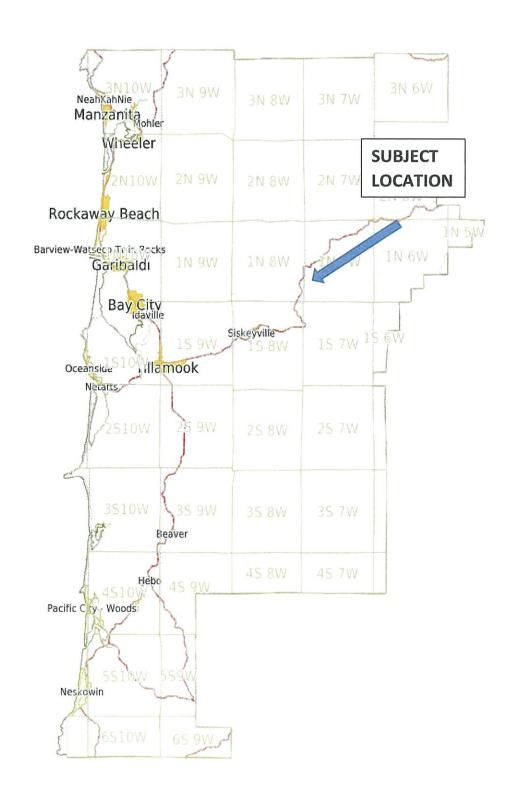
VI. EXHIBITS

All Exhibits referred to herein are, by this reference, made a part hereof:

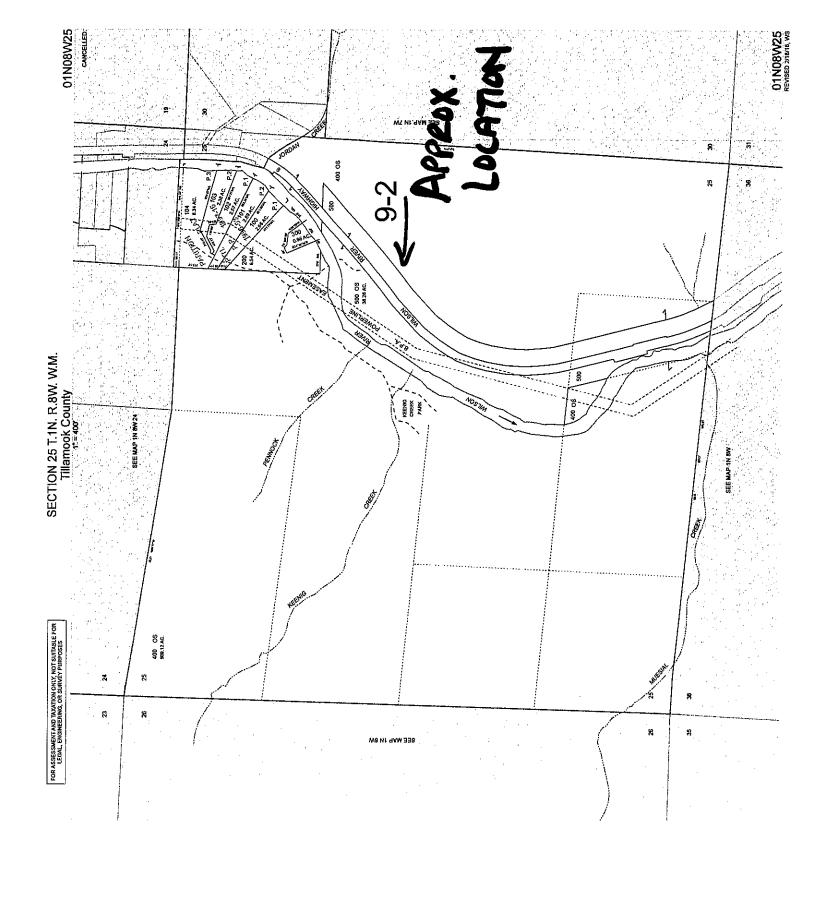
- A. Location Map, Assessor map, Zoning map, DOGAMI Hazard Map, FEMA FIRM, Wetland Inventory Map, Assessment Summary
- B. Applicant's submittal
- C. Public/Agency Comments

EXHIBIT A

VICINITY MAP

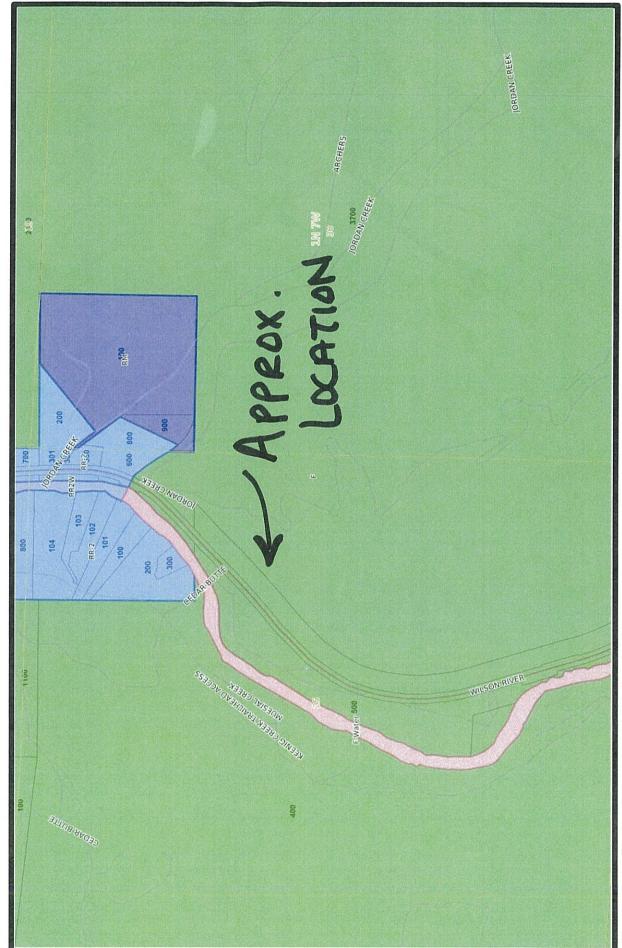


#851-25-000096-PLNG: Communications Facility Variance Request



Map





Generated with the GeoMOOSE Printing Utilities

National Flood Hazard Layer FIRMette



123°35'51"W 45°32'36"N T01N R07W S19 T01N R07W S30 1:6,000 TILLAMOOKSTATE FOREST 9/28/2018 THELAMONOTOTHE US Feet 41057C0475F TILL AMOOK COUNTY 410196 T01N R08W S24 T01N R08W S25 410196

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

With BFE or Depth Zone AE, AO, AH, VE, AR Without Base Flood Elevation (BFE) Regulatory Floodway

of 1% annual chance flood with average depth less than one foot or with drainag 0.2% Annual Chance Flood Hazard, Area

areas of less than one square mile Zone

Future Conditions 1% Annual Chance Flood Hazard Zone

Area with Reduced Flood Risk due to Levee. See Notes. Zone X

Area with Flood Risk due to Levee Zone D

FLOOD HAZARD

OTHER AREAS OF

NO SCREEN Area of Minimal Flood Hazard Zone X **Effective LOMRs**

Area of Undetermined Flood Hazard Zon

- -- - Channel, Culvert, or Storm Sewer

GENERAL

OTHER AREAS

STRUCTURES | 111111 Levee, Dike, or Floodwall

B 20.2 Cross Sections with 1% Annual Chance

Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study me gizama

Jurisdiction Boundary

Coastal Transect Baseline Hydrographic Feature Profile Baseline

> OTHER **FEATURES**

Digital Data Available

No Digital Data Available

Unmapped

MAP PANELS

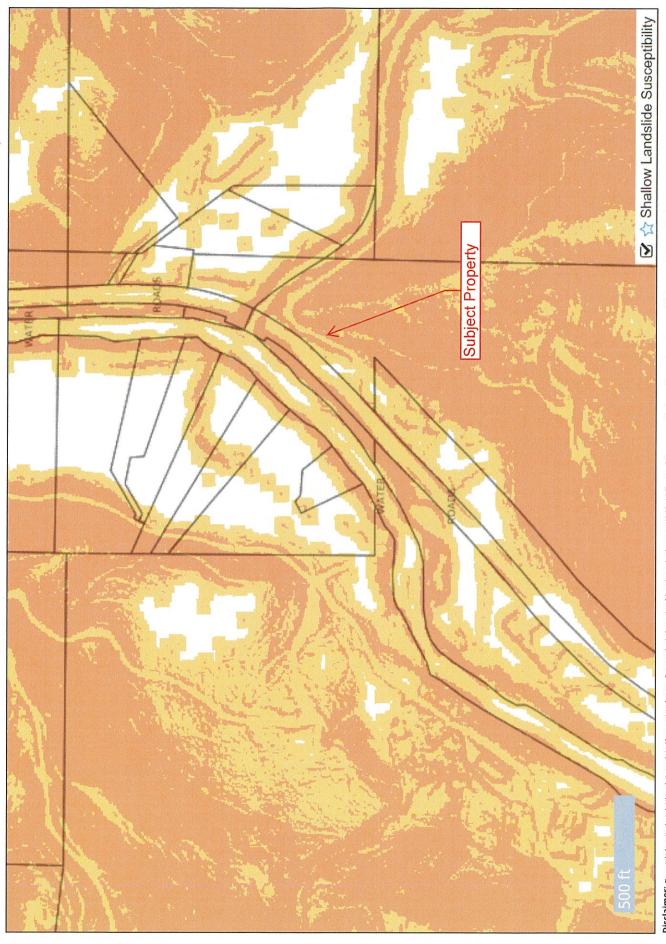
The pin displayed on the map is an approximate point selected by the user and does not represe an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap

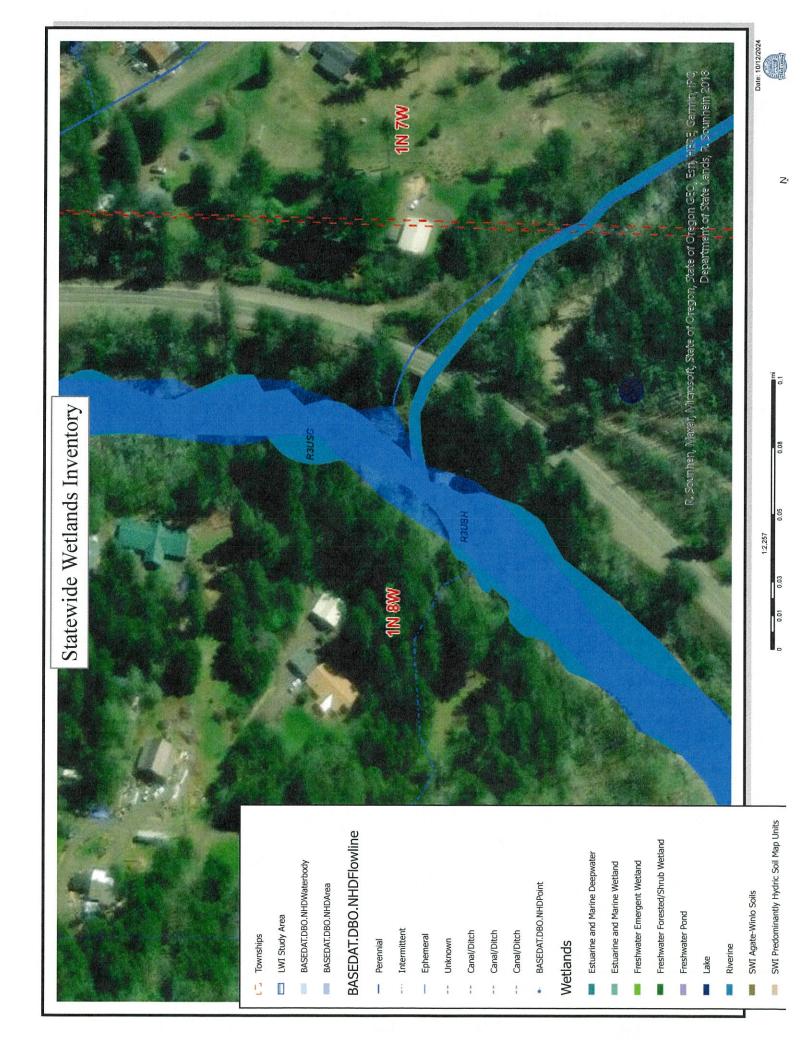
authoritative NFHL web services provided by FEMA. This map was exported on 10/12/2024 at 11:10 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or The flood hazard information is derived directly from the become superseded by new data over time. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, FIRM panel number, and FIRM effective date. Map images for legend, scale bar, map creation date, community identifiers, unmapped and unmodernized areas cannot be used for regulatory purposes.

1,500

Hazard Map



action hosted at this website was derived from a variety of sources. Care was taken in the creation of these themes, but they are provided "as is." The state of Oregon, or any of the data provides cannot accept, any responsibility for errors, omissions, or posterior from the careful or fitness for a particular purpose, accompanying any of these products. However, nortification of any errors would be appreciated. The data are clearly not intended to indicate the authoritative location of property boundaries, the Disclaimer: The spatial infon



Tillamook County 2024 Real Property Assessment Report

Account 309927

Мар

1N08250000400

Tax Status

Non-Assessable

Code - Tax ID

0902 - 309927

Account Status

Active NORMAL

Legal Descr

See Record

Mailing

OREGON, STATE OF

(FORESTRY)

300 MUESIAL CREEK RD

Sales Date/Price

Deed Reference # See Record See Record

TILLAMOOK OR 97141

Appraiser

Subtype

Property Class

961

MA SA

NH

KARI FLEISHER

RMV Class

601

01

01

Site Situe Address

600

Cify

i	Oite Oitus Address	City
	300 MUESIAL CREEK RD	COUNTY

			Value Summary			
Code Are	ea	RMV	MAV	AV	RMV Exception	CPR %
0902	Land	797,390		Land	0	
	impr	102,020		Impr	0	
Code	Area Total	899,410	0	0	0	
G	rand Total	899,410	0	0	0	

			Land Br	eakdown			
Code Area	ID#	Plan RFPD Ex Zone	Value Source	Trend %	Size	Land Class	Trended RMV
0902	0	√ F	Classified Forest Land	100	509.12 AC	OA	797,390
			Code	Area Total	509.12 AC		797,390

					Improvement Breakdown			
Code		Year	Stat		Trend			
Area	ID#	Built	Class	Description	%	Total Sqft	Ex% MS Acct	Trended RMV
0902	1		511	RV Park/Campground	102	10		102,020
					Code Area Total	10		102,020

Exemptions / Special Assessments / Notations						
Code Area 0902						
Exemptions (AV)	Amount					
■ STATE GOVERNMENT 307.090	0					

Comments

9/30/02 SET TO 1N8 25 500. ADDING RMV MKT VAL. NO MAV PER GS, JV 01-0231L, LR 4/7/10 Apportioned values after LLA with TL 500. RMV at market. Remains exempt under ORS 307.090. KF

12/14/16 Size change per GIS.LM

7/24/19 Added new vault restroom to Keenig Creek Campground. KF 7/15/20 Added new bridge at Keenig Creek Campground. KF

4/23/2025 5:01 PM Page 1 of 1

EXHIBIT B



Land Use Application

Rev. 6/9/23

Tillamook County Department of Community Development

1510-B Third Street. Tillamook, OR 97141 | Tel: 503-842-3408 Fax: 503-842-1819

OFFICE USE ONLY

www.co.tillamook.or.us

PLANNING APPLICATION

		RECEIVED
Applicant □ (Check Box if Same as Prop	perty Owner)	FEB 2 1 2025
	503.310.0544	FEB 2 1 2025
Address: 5200 SW Meadows Rd., Suite 150	30.483.5343	BY:
City: Lake Oswego State:	OR Zip: 97035	
mail: sarah.blanchard@acomconsulting	uinc.com	□ Approved □ Denied
		Received by: Receipt #:
Property Owner		Fees:
Name: Oregon Dept. of Forestry (ODF) Phone:	Zach Rabe - 503-842-2545	Permit No:
Address: 5005 3rd Street	<u> </u>	851-25 - 00096 -PLNG
City: Tillamook State: 0	OR Zip: 97141	031 <u>00 100 10</u> 1 2110
mail: Zach.D.RABE@odf.oregon.gov		
Variance		A !:!
Request: Type II Conditional Use Review for a new wire	siess communications facility (with verizon v	wheless as tenant carrier) on forest parcel.
HWY 6 node 7		
HWY 6 node 7		
ype II	Type III	Type IV
☐ Farm/Forest Review	■ Detailed Hazard Report	☐ Ordinance Amendment
☐ Conditional Use Review	☐ Conditional Use (As deemed	☐ Large-Scale Zoning Map
☑ Variance	by Director)	Amendment
Exception to Resource or Riparian Setback	Ordinance Amendment	☐ Plan and/or Code Text
Nonconforming Review (Major or Minor)	☐ Map Amendment	Amendment
Development Permit Review for Estuary	Goal Exception	
Development	☐ Nonconforming Review (As deemed by Director)	
Non-farm dwelling in Farm Zone	☐ Variance (As deemed by	
☐ Foredune Grading Permit Review☐ Neskowin Coastal Hazards Area	Director)	
ocation:	Sirectory	
iite Address: 35300 Wilson River Hwy, Tillar	nook OR 97141 (209927/1N0825	0000400)
Map Number: 1N 8V		25 0400
Township Range	<u> </u>	Section Tax Lot(s)
Clerk's Instrument #:		1.7
Authorization		
his permit application does not assure permit	approval. The applicant and/or prop	perty owner shall be responsible for
obtaining any other necessary federal, state, an		
omplete, accurate, and consistent with other i		
roperty Owner Signature (Required)	Digitally signed by Zachariah F	Rahe Date
Zachariah Rabe	Date: 2025.02.14 11:43:56 -08	
pplicant Signature		Date
THAT	Applicant	2/14/25

LAND USE APPLICATION - VARIANCE

VERIZON WIRELESS TELECOMMUNICATIONS FACILITY AT

No Situs Tillamook, OR 97141 (Acct 309927/Map Tax Lot 1N08250000400)

Prepared By



Date February 17, 2025

Project NamePOR HWY 6 - 07



I. GENERAL INFORMATION

Applicant: Verizon Wireless

5430 NE 122nd Avenue Portland, OR 97230

Representative: Acom Consulting, Inc.

Tessie Murakami

5200 SW Meadows Rd., Suite 150

Lake Oswego, OR 97035

<u>Property Owner:</u> Oregon Dept. of Forestry

Zach Rabe 5005 3rd Street Tillamook, OR 9141

Project Information:

Site Address: No Situs, Tillamook, OR 97141

Parcel: 1N08250000400

Account Number: 309927
Parcel Area: 509.12 acres
Zone Designation: F (Forest)
Existing Use: Forest

Project Area: 100 Square Feet (10' x 10') accessed by a short 10' wide access and utility easement.

II. PROJECT OVERVIEW

Acom Consulting is applying on behalf of Verizon Wireless, who will own and operate the tower and ground space; Cellco Partnership dba Verizon Wireless, who will be located on this facility and the property owner, Tillamook County. The site proposed herein is designed to improve the voice and data capacity for its customers in Tillamook County and along Highway 6. This is part of the initiative to provide better coverage of 911 calls on the highway since it is known as the deadly stretches in Oregon. The state is mandating all carriers to address the coverage gap at HWY OR-6.

The applicant proposes to construct a new wireless communications facility ("WCF") within a 10' x 10' ground lease area. This proposal includes a 80-foot monopole tower with up to 3 antennas at an antenna tip-height of 80' and associated RRU's, equipment cabinets, backup generator, and high security fence with 3 strands barbed wire. The site will be accessed via an existing driveway off HWY OR-6.

The monopole tower would be a metal pole and can be painted a non-reflective color to blend with the adjacent mature trees and sky. The proposed monopole (small cell) is only 80' and is a part of Verizon's small cells



project in Tillamook County which is requiring additional poles to be installed along HWY OR-6 for the proposal to provide adequate service coverage in the area.

This site was chosen because HWY OR-6 is currently significantly underserved by wireless coverage, even though there is a substantial amount of traffic every day. The lack of existing wireless facilities in the area contributes to lack of coverage. The newly proposed small cells will provide much needed coverage in areas that would be difficult to serve using conventional tower-based transmitters. These sites will not only help improve customer experience but also help public safety and emergency services by allowing communication in an otherwise cutoff area.

This site can meet the Tillamook County criteria for sitting of new wireless telecommunication facilities, including height, setbacks and design as demonstrated herein. As shown throughout this application, Verizon's proposal is the least intrusive means of meeting coverage objectives. The applicants respectfully request that Tillamook County approve the variance and facility as proposed.

III. PROPOSED PLAN

This is a variance request to reduce the required 30-foot property line setback to 4 ft. 7 inches to support the approved construction of the 80 ft. monopole tower to provide cellular service and coverage along the highway. The subject property is surrounded by Forest and highway traffic.

IV. APPLICABLE ORDINANCE AND COMPREHENSIVE PLAN PROVISIONS

- A. TCLUO Section 3.004 Forest (F) Zone
- B. TCLUO Article VIII Variance Procedures and Criteria Section 8.030 Review Criteria

V. ANALYSIS

- A. TCLUO Section 3.004 Forest (F) Zone
- (1) PURPOSE
- (a) The purpose of the Forest (F) Zone is to protect and maintain forest lands for grazing, and rangeland use and forest use, consistent with existing and future needs for agricultural and forest products. The F zone is also intended to allow other uses that are compatible with agricultural and forest activities, to protect scenic resources and fish and wildlife habitat, and to maintain and improve the quality of air, water and land resources of the county.
- (b) The F zone has been applied to lands designated as Forest in the Comprehensive Plan. The provisions of the F zone reflect the forest land policies of the Comprehensive Plan



as well as the requirements of ORS Chapter 215 and OAR 660-006. The minimum parcel size and other standards established by this zone are intended to promote commercial forest operations.

Applicant's response: The proposed WCF is located in the Forest (F) zone.

(2) DEFINITIONS

Words used in the present tense include the future; the singular number includes the plural; and the word "shall" is mandatory and not directory. Whenever the term "this ordinance" is used herewith, it shall be deemed to include all amendments thereto as may hereafter from time to time be adopted.

For the purpose of this zone, the following definitions apply:

(dd) UTILITY FACILITIES NECESSARY FOR PUBLIC SERVICE: Unless otherwise specified in this Article, any facility owned or operated by a public, private or cooperative company for the transmission, distribution or processing of its products or for the disposal of cooling water, waste or by-products, and including, major trunk, pipelines, dams & and other hydroelectric facilities, water towers, sewage lagoons, cell towers, electrical transmission facilities (except transmission towers over 200' in height) including substations not associated with a commercial power generating facilities and other similar facilities.

Applicant's response: The proposed WCF qualifies as a utility facility necessary for public service.

B. TCLUO Article VIII – Variance Procedures and Criteria - Section 8.030 Review Criteria

SECTION 8.030: REVIEW CRITERIA

A VARIANCE shall be granted, according to the procedures set forth in Section 8.020, if the applicant adequately demonstrates that the proposed VARIANCE satisfies all of the following criteria:

(1) Circumstances attributable either to the dimensional, topographic, or hazardous characteristics of a legally existing lot, or to the placement of structures thereupon, would effectively preclude the enjoyment of a substantial property right enjoyed by the majority of landowners in the vicinity, if all applicable standards were to be met. Such circumstances may not be self-created.

Applicant's response:

The proposed site for the 80-foot monopole was selected after careful consideration of the topographic features of the land. The terrain along Highway 6 presents challenges, such as uneven land or areas with limited elevation, which restrict the ability to place a taller tower that would otherwise meet coverage objectives. The 80-foot monopole represents an optimal height for ensuring coverage without imposing significant visual impact on the landscape or surrounding properties. The site's dimensions and natural features make this tower the most feasible solution for expanding service in this area.

The placement of the tower 4 feet and 7 inches from the highway is a critical factor in ensuring that the structure will effectively meet the coverage requirements. The unique topography and layout of the land make this location optimal for extending the network's range, ensuring strong and reliable service along



the highway. The tower must be positioned at this exact distance from the highway to take advantage of natural line-of-sight coverage, minimizing potential interference and maximizing signal strength. Further, no hazardous areas or conditions, such as flood zones or unstable terrain, would affect the tower installation. The precise distance of 4 feet and 7 inches ensures that the tower is positioned in a safe location relative to the highway, ensuring the safety of both the infrastructure and the surrounding community.

(2) A VARIANCE is necessary to accommodate a use or accessory use on the parcel which can be reasonably expected to occur within the zone or vicinity.

Applicant's response:

A variance is necessary for the proposed 80-foot monopole tower to be positioned along Highway 6 to accommodate the wireless infrastructure needed to address the substantial coverage gap in the area. The variance will allow Verizon to place the monopole in a way that provides effective service coverage while complying with the unique topographic, dimensional, and zoning requirements of the parcel. Although the use of a telecommunications tower is generally reasonable and expected use within this zone or vicinity, the specific placement and dimensions required for the tower to function effectively call for a variance.

The installation of wireless telecommunications infrastructure, including monopole towers, is a reasonable and common use within this zone and vicinity, especially along major highways like Highway 6. The need for reliable mobile service—both for general users and for public safety communications—makes this infrastructure essential. However, due to the topography of the site and the need for the monopole to be positioned 4 feet and 7 inches from the highway to maximize signal effectiveness, the structure cannot conform to the standard 30 ft. setback requirements.

(3) The proposed VARIANCE will comply with the purposes of relevant development standards as enumerated in Section 4.005 and will preserve the right of adjoining property owners to use and enjoy their land for legal purposes.

Applicant's response:

The proposed variance for the 80-foot monopole tower along Highway 6 will comply with the purposes of the relevant development standards as outlined in Section 4.005 of the zoning code. These standards are designed to ensure that new development is compatible with surrounding land uses, protects the health, safety, and welfare of the community, and minimizes negative impacts on neighboring properties.

The monopole's placement and height have been carefully considered to avoid any disruption to adjacent properties. The surrounding land is primarily in a forest zone, where telecommunications infrastructure is expected and compatible with the area's broader land-use goals. The monopole is not near residential properties and the height and location of the tower ensure it does not block light, air, or views in a way that would impact neighboring landowners' enjoyment of their property.

By ensuring the monopole is placed in a location that does not infringe on neighboring landowners' rights to use their property (such as by taking up excessive space or obstructing existing structures), the variance will not preclude the adjacent properties from being used for their intended legal purposes. The



monopole's small footprint and limited visibility ensure that it will not interfere with the enjoyment of adjoining landowners' properties.

(4) There are no reasonable alternatives requiring either a lesser or no VARIANCE.

Applicant's response:

The unique topography of the parcel plays a significant role in determining the location of the monopole. Due to natural land features such as elevation changes, slopes, and the layout of surrounding roads and properties, the placement of the tower in any other location would fail to meet the service coverage requirements or would cause excessive interference with the surrounding environment.

The terrain along Highway 6 restricts where the monopole can be placed for optimal coverage. Moving the tower away from the highway would result in a substantial reduction in coverage, as the signal strength would decrease significantly without the proper line of sight. This precise location, 4 feet and 7 inches from the highway, ensures that the tower can provide the necessary coverage for both travelers and residents while minimizing interference from nearby structures or topographic obstacles.

Further, the monopole must be placed as close as possible to the highway to ensure adequate coverage along this vital transportation corridor. Moving the tower further away from the highway would result in signal degradation and failure to meet Verizon's coverage objectives. Without the variance, the monopole could not achieve the necessary height, coverage, or line of sight required to serve the area effectively.

The requested variance for the 80-foot monopole tower is necessary because there are no reasonable alternatives that would meet the service needs of the area without requiring either a lesser or no variance. The unique topography, zoning restrictions, and engineering requirements dictate that the tower must be positioned 4 feet and 7 inches from the highway to provide the optimal coverage along Highway 6. Relocating the tower or attempting to reduce the variance would result in inadequate service coverage, failure to meet Verizon's technical requirements, and potential disruption to surrounding properties. Therefore, the proposed variance is the only feasible option to ensure the tower serves its intended purpose while minimizing impacts to the surrounding community.

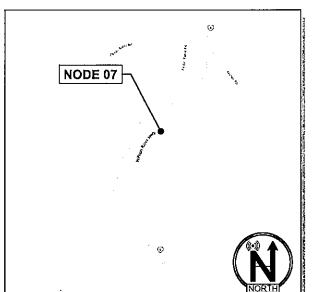
Verizon respectfully request the County approve the Variance to the 30-ft setback.

verizon

HWY 6

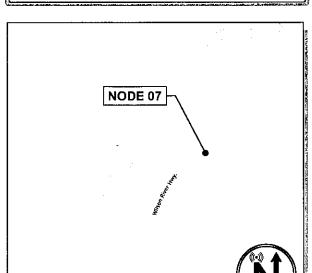
MDG LC: 5000908253

TOWER PHOTO



VICINITY MAP

LOCATION MAP DRIVING DIRECTIONS

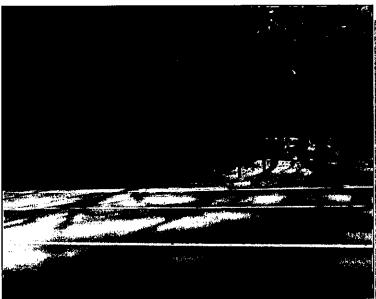


FROM VERIZON WIRELESS OFFICE - PORTLAND, OR: HEAD SOUTHWEST ON NE 122ND AVE TOWARD NE WHITAKER WAY. TURN RIGHT ONTO NE FREMONT ST. USE THE RIGHT LANE TO TURN LEFT ONTO NE 102ND AVE. TURN RIGHT TO MERGE ONTO I-84 W/US-30 W TOWARD PORTLAND, MERGE ONTO I-84 W/US-30 W, USE THE LEFT 2 LANES TO MERGE ONTO 1-5 S TOWARD SALEM. USE THE LEFT LANE TO TAKE THE 1-405 EXIT TOWARD US-26/BEAVERTON. CONTINUE ONTO 1-405 N. USE THE RIGHT 2 LANES TO TAKE EXIT 1D FOR U.S. 26 W TOWARD BEAVERTON, CONTINUE ONTO US-26 W, SLIGHT LEFT ONTO OR-6 W (SIGNS FOR BANKS/TILLAMOOK). FOLLOW FOR 33.6 MILES. DESTINATION WILL BE ON THE LEFT ROUGHLY 300 FEET AFTER MILE MARKER 18.

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT CONDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

OREGON STATE AND LOCAL BUILDING CODES WITH THE FOLLOWING REFERENCE CODE: 2021 IBC, STANDARDS AND AMENDMENTS - 2022 OSSC 2022 OREGON MECHANICAL SPECIALTY CODE (OMSC) 2021 IFC, STANDARDS AND AMENDMENTS - 2022 OFC 2021 UPC, STANDARDS AND AMENDMENTS - 2021 OPSC 2020 NEC, STANDARDS AND AMENDMENTS - 2021 OESC



PHONE: (801) 990-1775

WELLS L. HOLMES, S.E. VECTOR STRUCTURAL ENGINEERING 651 W GALENA PARK BLVD, SUITE 101

ENGINEER OF RECORD:

ELECTRICAL ENGINEER: DEAN P. LEVORSEN, P.E. VECTOR STRUCTURAL ENGINEERING 651 W GALENA PARK BLVD, SUITE 101 DRAPER, UT 84020 PHONE: (801) 990-1775

FROJECT INFORMATION

TILLAMOOK COUNTY JURISDICTION:

SITE NAME:

ADDRESS:

COUNTY:

JURISDICTION:

POLE TYPE:

POLE #:

PROJECT CONTACT LIST

IMPLEMENTATION CONTACT:

christopher.lewis2@verizonwireless.com

5200 SW MEADOWS RD, SUITE 150

VERIZON WIRELESS (VAW) LLC

(d/b/a VERIZON WIRELESS)

5430 NE 122ND AVENUE

PORTLAND, OR 97230

PHONE: (951) 796-5523

SARAH BLANCHARD

ACOM CONSULTING, INC

LAKE OSWEGO, OR 97035

PHONE: (503) 310-5538

OREGON DEPARTMENT OF FORESTRY N/A

PROPERTY OWNER:

CHRISTOPHER LEWIS

ANTENNA

LOCATION:

ZONING CLASSIFICATION: F - FOREST ADJACENT ZONE: CONSTRUCTION TYPE: UTILITY PROPOSED BUILDING USE: TELECOM

PROPOSED STRUCTURE HEIGHT:

45.546270° N LATITUDE: 45° 32' 46.57" N -123.603734° W LONGITUDE: 123° 36' 13,44" W GROUND ELEVATION: ±371.6 AMSL

POR HWY 6 - 07

TILLAMOOK

NA

UTILITY TOWER OWNER:

A&E CONSULTANT:

ACOM CONSULTING, INC

LAKE OSWEGO, OR 97035

ZONING / PERMITTING:

5200 SW MEADOWS RD, SUITE 150

ACOM CONSULTING, INC

LAKE OSWEGO, OR 97035

PHONE: (310) 483-5343

tessie.murakami@acomo

80.0' (TOP OF NEW POLE)

PHONE: (425) 209-6723

TESSIE MURAKAMI

5200 SW MEADOWS RD

RICK MATTESON

SUITE 150

35300 WILSON RIVER HWY

TILLAMOOK, OR 97141

TILLAMOOK COUNTY

NEW METAL POLE

POLE MOUNTED

T-2 GENERAL NOTES AND SYMBOLS

GROUND & EROSION CONTROL PLAN

SECTIONS, PROFILES & NOTES

AERIAL IMAGE / SITE LOCATION

ANTENNA DETAILS TYPICAL ONE-LINE DIAGRAM AND PANEL SCHEDULE

ANTENNA CONFIGURATION

TOWER TITLE SHEET

TOWER ELEVATION, DETAILS & NOTES

DRAWING INDEX

ANTENNA & EQUIPMENT PLANS

EXISTING AND PROPOSED ELEVATIONS

CONSTRUCTION DETAILS

CONSTRUCTION DETAILS

TOWER DETAILS

SCOPE OF WORK

VERIZON WIRELESS PROPOSES TO:

 PROPOSES TO INSTALL WIRELESS EQUIPMENT IN FENCED COMPOUND LOCATED OUTSIDE R-O-W

PROPOSES TO INSTALL (4) NEW ANTENNAS & (1) NEW MOUNT ON NEW POLE

 PROPOSES TO INSTALL (1) NEW SMALL CELL CABINET ON CONCRETE PAD

PROPOSES TO INSTALL (1) NEW HYBRID AND APPROVED CABLE STRAP MOUNTED ON NEW POLE

DO NOT SCALE DRAWINGS, CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS, NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF ACOM CONSULTING.

EXPIRES: 6/30/2025

02/11/2025

VSE Project Number: U2350-1241-241

No	. DATE DRAW		REVISION
A	05/22/23	КМ	90% PCD REVIEW
В	08/03/23	км	SURVEY UPDATE
С	06/04/24	КМ	RFDS UPDATE
0	12/11/24	DO	100% FINAL CD
1	01/27/25	юм	CLIENT COMMENTS
2	02/11/25	КМ	CLIENT COMMENTS





HWY 6 SMALL CELL NODE 07

35300 WILSON RIVER HWY TILLAMOOK, OR 97141

COVER SHEET

GENERAL NOTES

- WORK SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. ALL NECESSARY LICENSES, CERTIFICATES, ETC., REQUIRED BY AUTHORITY HAVING JURISDICTION SHALL BE PROCURED AND PAID FOR BY THE CONTRACTOR.
- 2. ACOM HAS NOT CONDUCTED, NOR DOES IT INTEND TO CONDUCT ANY INVESTIGATION AS TO THE PRESENCE OF HAZARDOUS MATERIAL, INCLUDING, BUT NOT LIMITED TO, ASBESTOS WITHIN THE CONFINES OF THIS PROJECT, ACOM DOES NOT ACCEPT RESPONSIBILITY FOR THE INDEMNIFICATION, THE REMOVAL, OR ANY EFFECTS FROM THE PRESENCE OF THESE MATERIALS. IF EVIDENCE OF HAZARDOUS MATERIALS IS FOUND, WORK IS TO BE SUSPENDED AND THE OWNER NOTIFIED. THE CONTRACTOR IS NOT TO PROCEED WITH FURTHER WORK UNTIL INSTRUCTED BY THE OWNER IN WRITING
- ALL MATERIAL FURNISHED UNDER THIS CONTRACT SHALL BE PROPOSED, UNLESS OTHERWISE NOTED. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP. THE CONTRACTOR SHALL REPAIR OR REPLACE AT HIS EXPENSE ALL WORK THAT MAY DEVELOP DEFECTS IN MATERIALS OR WORKMANSHIP WITHIN SAID PERIOD OF TIME OR FOR ONE YEAR AFTER THE FINAL ACCEPTANCE OF THE ENTIRE PROJECT, WHICHEVER IS GREATER
- THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS AND UTILITIES AT THE JOB SITE BEFORE WORK IS STARTED. NO CLAIMS FOR EXTRA COMPENSATION FOR WORK WHICH COULD HAVE BEEN FORESEEN BY AN INSPECTION, WHETHER SHOWN ON THE CONTRACT DOCUMENTS OR NOT. WILL BE ACCEPTED OR PAID.
- 5. THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND CONDITIONS AT THE JOB SITE WHICH COULD AFFECT THE WORK UNDER THIS CONTRACT, ALL MANUFACTURERS RECOMMENDED SPECIFICATIONS, EXCEPT THOSE SPECIFICATIONS HEREIN, WHERE MOST STRINGENT SHALL BE COMPLIED
- THE CONTRACTOR SHALL VERIFY AND COORDINATE SIZE AND LOCATION OF ALL OPENINGS FOR STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, OR ARCHITECTURAL WORK.
- THE CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST BETWEEN THE LOCATIONS OF ANY AND ALL MECHANICAL, ELECTRICAL, PLUMBING, OR STRUCTURAL ELEMENTS, AND THAT ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE ARE MET. NOTIFY THE CONSULTANT OF ANY CONFLICTS. THE CONSULTANT HAS THE RIGHT TO MAKE MINOR MODIFICATIONS IN THE DESIGN OF THE CONTRACT WITHOUT THE CONTRACTOR GETTING ADDITIONAL COMPENSATION
- DO NOT SCALE THE DRAWINGS, DIMENSIONS ARE EITHER TO THE FACE OF FINISHED ELEMENTS OR TO THE CENTER LINE OF ELEMENTS, UNLESS NOTED OTHERWISE, CRITICAL DIMENSIONS SHALL BE VERIFIED AND NOTIFY THE CONSULTANT OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEAN UP OF ALL TRADES AND REMOVE ALL DEBRIS FROM THE CONSTRUCTION SITE, AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE BUILDING, SITE, AND ANY OTHER SURROUNDING AREAS TO A BETTER THAN EXISTING CONDITION.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, ETC. ACCORDING TO APPLICABLE CODES, STANDARDS, AND GOOD CONSTRUCTION PRACTICES
- 11. THE CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS FOR ALL INSTALLATIONS.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING CONSTRUCTION AND REPAIR ALL DAMAGES TO BETTER THAN PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY AVISTA OF ANY DAMAGE TO THE SITE OR ANY ADJACENT STRUCTURES AROUND THE PROJECT. THE CONSULTANT SHALL BE SOLE AND FINAL JUDGE AS TO THE QUALITY OF THE REPAIRED CONSTRUCTION. ANY ADDITIONAL MODIFICATIONS WHICH MUST BE MADE SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
- 13. WHERE ONE DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS, EVEN THOUGH NOT SPECIFICALLY MARKED ON THE DRAWINGS OR REFERRED TO IN THE SPECIFICATIONS, UNLESS NOTED OTHERWISE.
- 14 WHERE PROPOSED PAVING CONCRETE SIDEWALKS OR PATHS MEET EXISTING CONSTRUCTION, THE CONTRACTOR SHALL MATCH THE EXISTING PITCH, GRADE, AND ELEVATION SO THE ENTIRE STRUCTURE SHALL HAVE A SMOOTH TRANSITION.
- 15. THE CONTRACTOR SHALL MODIFY THE EXISTING STRUCTURE AS REQUIRED. WHERE THE EXISTING STRUCTURE MUST BE MODIFIED, GENERAL CONTRACTOR SHALL REPAIR TO ORIGINAL CONDITION. ALL WORK SHALL BE COVERED UNDER THE GENERAL CONTRACT.

- 16. VERIFY ALL EXISTING DIMENSIONS PRIOR TO PERFORMING WORK.
- 17. VERIFY LOCATION OF ALL BURIED UTILITIES PRIOR TO ANY EXCAVATION.
- 18. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING FOR COMMERCIAL POWER IMMEDIATELY UPON AWARD OF CONTRACT. THE GENERAL CONTRACTOR IS REQUIRED TO KEEP ALL DOCUMENTATION RECEIVED FROM THE POWER COMPANY ACKNOWLEDGING APPLICATION FOR POWER, WRITTEN AND VERBAL DISCUSSIONS WITH THE
- 19. THE GENERAL CONTRACTOR SHALL OBTAIN WRITTEN CONFIRMATION OF THE EXPECTED DATE OF COMPLETION OF THE POWER CONNECTION FROM THE POWER COMPANY.
- 20. IF THE POWER COMPANY IS UNABLE TO PROVIDE THE POWER CONNECTION BY OWNER'S REQUIRED DATE, THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN A TEMPORARY GENERATOR LINTIL THE POWER COMPANY CONNECTION IS COMPLETED, COSTS ASSOCIATED WITH THE TEMPORARY GENERATOR TO BE APPROVED BY THE OWNER.
- 21. IF THE GENERAL CONTRACTOR FAILS TO TAKE NECESSARY MEASURES AS DESCRIBED IN NOTES 19, 20 AND 21 ABOVE, THE GENERAL CONTRACTOR SHALL PROVIDE A TEMPORARY GENERATOR AT NO COST TO THE OWNER.
- 22. PLANS PART OF THIS SET ARE COMPLEMENTARY, INFORMATION IS NOT LIMITED TO ONE PLAN, DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT, WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THEY ARE NOT TO BE USED BY THE OWNER ON OTHER PROJECTS OR EXTENSION TO THIS PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ARCHITECT. THESE PLANS WERE PREPARED TO BE SUBMITTED TO GOVERNMENTAL BUILDING AUTHORITIES FOR REVIEW FOR COMPLIANCE WITH APPLICABLE CODES AND IT IS THE SOLE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO BUILD ACCORDING TO APPLICABLE BUILDING CODES.
- 23. IF CONTRACTOR OR SUB-CONTRACTOR FIND IT NECESSARY TO DEVIATE FROM ORIGINAL APPROVED PLANS, THEN IT IS THE CONTRACTOR'S AND THE SUB-CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE ARCHITECT WITH 4 COPIES OF THE PROPOSED CHANGES FOR HIS APPROVAL BEFORE PROCEEDING WITH THE WORK, IN ADDITION THE CONTRACTOR AND SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY APPROVALS FROM THE BUILDING AUTHORITIES FOR THE PROPOSED CHANGES BEFORE PROCEEDING WITH THE WORK, THE CONTRACTOR AND SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY INSPECTIONS AND APPROVALS FROM BUILDING AUTHORITIES DURING THE EXECUTION OF THE WORK.
- 24. IN EVERY EVENT, THESE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS SHALL BE INTERPRETED TO BE A MINIMUM ACCEPTABLE MEANS OF CONSTRUCTION BUT THIS SHALL NOT RELIEVE THE CONTRACTOR, SUB-CONTRACTOR, AND/OR SUPPLIER/MANUFACTURER FROM PROVIDING A COMPLETE AND CORRECT JOB WHEN ADDITIONAL ITEMS ARE REQUIRED TO THE MINIMUM SPECIFICATION. IF ANY ITEMS NEED TO EXCEED THESE MINIMUM SPECIFICATIONS TO PROVIDE A COMPLETE, ADEQUATE AND SAFE WORKING CONDITION, THEN IT SHALL BE THE DEEMED AND UNDERSTOOD TO BE INCLUDED IN THE DRAWINGS. FOR EXAMPLE, IF AN ITEM AND/OR PIECE OF EQUIPMENT REQUIRES A LARGER WIRE SIZE (I.E. ELECTRICAL WIRE), STRONGER OR LARGER PIPING, INCREASED QUANTITY (I.E. STRUCTURAL ELEMENTS), REDUCED SPACING, AND/OR INCREASED LENGTH (I.E. BOLT LENGTHS, BAR LENGTHS) THEN IT SHALL BE DEEMED AND UNDERSTOOD TO BE INCLUDED IN THE BID/PROPOSAL, THESE DOCUMENTS ARE MEANT AS A GUIDE AND ALL ITEMS REASONABLY INFERRED SHALL BE DEEMED TO BE INCLUDED.
- 25. THESE CONTRACT DOCUMENTS AND SPECIFICATIONS SHALL NOT BE CONSTRUED TO CREATE A CONTRACTUAL RELATIONSHIP OF ANY KIND BETWEEN THE ARCHITECT AND THE

LEGEND

LINE/ANTENNA NOTES

- ALL THREADED STRUCTURAL FASTENERS FOR ANTENNA SUPPORT ASSEMBLES SHALL CONFORM TO ASTM A307 OR ASTM A36. ALL STRUCTURAL FASTENERS FOR STRUCTURAL STEEL FRAMING SHALL CONFORM TO ASTM A325. FASTENERS SHALL BE 5/8" MIN. DIA. BEARING TYPE CONNECTIONS WITH THREADS EXCLUDED FROM THE PLANE. ALL EXPOSED FASTENERS, NUTS, AND WASHERS SHALL BE GALVANIZED OTHERWISE NOTED. CONCRETE EXPANSION ANCHORS SHALL BE HILTI KWIK BOLTS UNLESS OTHERWISE NOTED. ALL ANCHORS INTO CONCRETE SHALL BE STAINLESS STEEL.
- NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY MAGNETIC NORTH AND NOTIFY CONSULTANT OF ANY DISCREPANCY BEFORE STARTING
- PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT.
- THOROUGHLY REMOVE ALL PAINT AND CLEAN ALL DIRT FROM SURFACES REQUIRING GROUND
- MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE. AVOID SHARP BENDS. ALL BENDS TO BE A MIN. OF 8" RADIUS.
- 6. FOR GROUNDING TO GROUND BARS USE A TWO-BOLT HOLE NEMA DRILLED CONNECTOR SUCH AS T&B 32007 OR APPROVED EQUAL
- FOR ALL EXTERNAL GROUND CONNECTIONS, CLAMPS AND CADWELDS, APPLY A LIBERAL PROTECTIVE COATING OR AN ANTI-OXIDE COMPOUND
- REPAIR ALL GALVANIZED SURFACES THAT HAVE BEEN DAMAGED BY THERMO-WELDING. USE ERICO T-319 GALVANIZING BAR/COLD GALVANIZING PAINT.

PROJECT INFORMATION

THIS IS AN UNMANNED FACILITY AND RESTRICTED ACCESS EQUIPMENT AND WILL BE USED FOR THE

VERIZON WIRELESS CERTIFIES THAT THIS TELEPHONE EQUIPMENT FACILITY WILL BE SERVICED ONLY

IS UNOCCUPIED AND NOT DESIGNED FOR HUMAN OCCUPANCY THUS IT IS NOT OPEN TO THE PUBLIC.

THIS FACILITY WILL CONSUME NO UNRECOVERABLE ENERGY.

5. NO WASTE WATER WILL BE GENERATED AT THIS LOCATION.

6. NO SOLID WASTE WILL BE GENERATED AT THIS LOCATION.

TRIP PER MONTH AT ONE HOUR PER VISIT

4. NO POTABLE WATER SUPPLY IS TO BE PROVIDED AT THIS LOCATION.

BY VERIZON WIRELESS EMPLOYEE SERVICE PERSONNEL FOR REPAIR PURPOSES ONLY. THIS FACILITY

TRANSMISSION OF RADIO SIGNALS FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE.

EXPIRES: 6/30/2025 02/11/2025

VSE Project Number: U2350-1241-241

NO.	DATE	DRAWN	REVISION
Α	05/22/23	КМ	90% PCD REVIEW
В	08/03/23	км	SURVEY UPDATE
C	06/04/24	км	RFDS UPDATE
0	12/11/24	DO	100% FINAL CD
1	01/27/25	км	CLIENT COMMENTS
2	02/11/25	км	CLIENT COMMENTS



IMPORTANT NOTICE

7. VERIZON WIRELESS MAINTENANCE CREW (TYPICALLY ONE PERSON) WILL MAKE AN AVERAGE OF ONE

ABBREVIATIONS: EXISTING

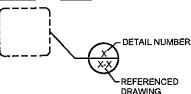
PROPOSED

REFERENCE:

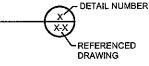
BUILDING/WALL/DETAIL SECTION:



LARGE SCALE DETAIL:



ELEVATION REFERENCE:



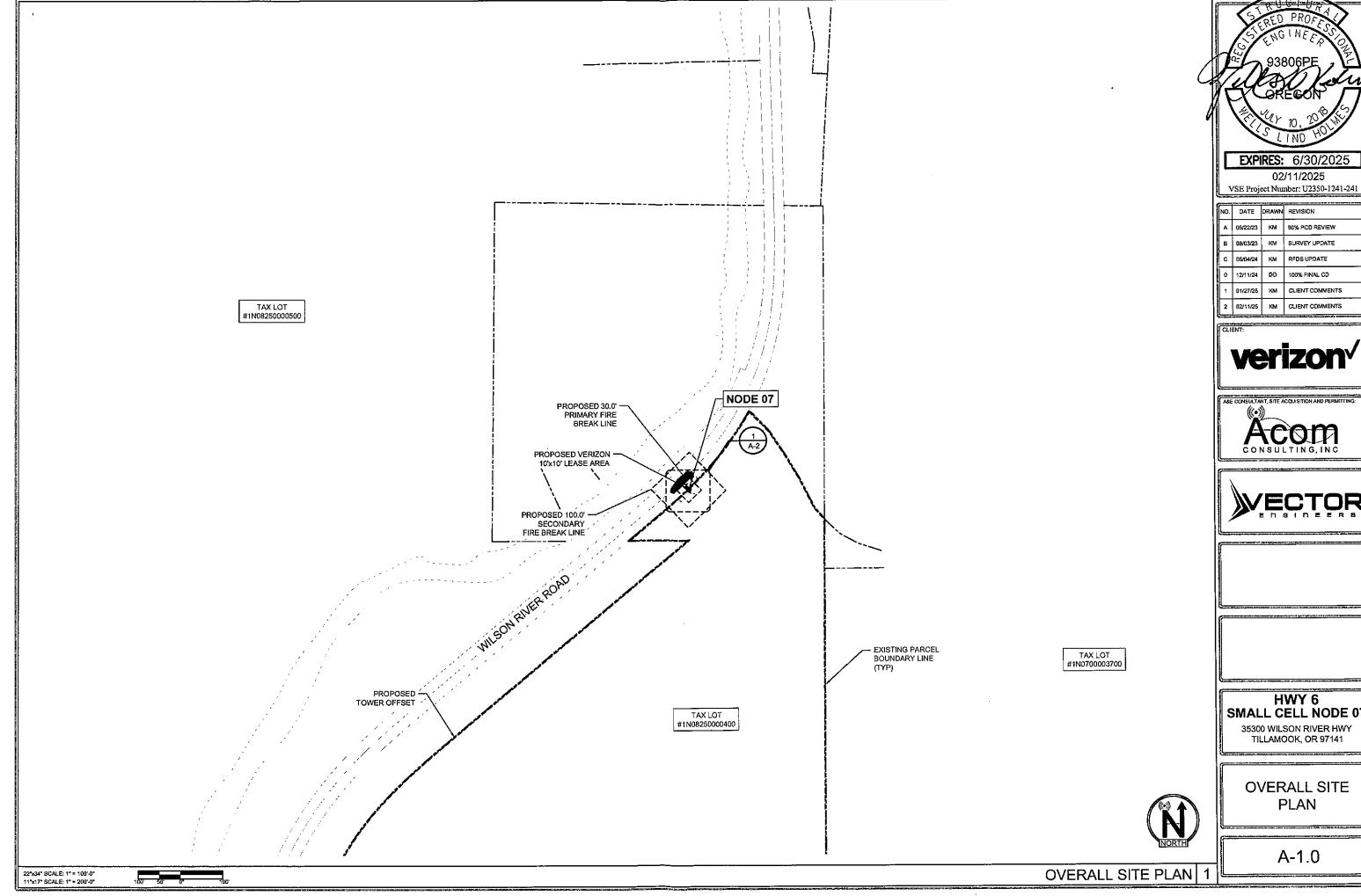
DETAIL NUMBER REFERENCED

THE EXISTING CONDITIONS REPRESENTED HEREIN ARE BASED ON VISUAL OBSERVATIONS AND INFORMATION PROVIDED BY OTHERS. ACOM CONSULTING CANNOT GUARANTEE THE CORRECTNESS NOR COMPLETENESS OF THE EXISTING CONDITIONS SHOWN AND ASSUMES NO RESPONSIBILITY THEREOF. CONTRACTOR AND HIS SUB-CONTRACTORS SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AS REQUIRED FOR PROPER EXECUTION OF PROJECT. REPORT ANY CONFLICTS OR DISCREPANCIES TO THE CONSULTANT PRIOR TO CONSTRUCTION.

HWY 6 **SMALL CELL NODE 07**

> 35300 WILSON RIVER HWY TILLAMOOK, OR 97141

GENERAL NOTES AND SYMBOLS



EXPIRES: 6/30/2025

Ι.				
	NO.	DATE	DRAWN	REVISION
۱	A	05/22/23	км	90% PCD REVIEW
I	В	08/03/23	КМ	SURVEY UPDATE
I	С	06/04/24	км	RFDS UPDATE
I	0	12/11/24	00	100% FINAL CO
	1	01/27/25	КМ	CLIENT COMMENTS
I	2	02/11/25	км	CLIENT COMMENTS

verizon/





HWY 6 SMALL CELL NODE 07

	POLE MOUNTED EQUIPMENT SCHEDULE									
CATEGORY	MANUFACTURER	MODEL NUMBER	UNIT HEIGHT/		UNIT DEPTH	UNIT WEIGHT	MOUNT HEIGHT (CENTER)	PROPOSED		
			LENGTH		DEFILI	11210111	(GENTER)	QUANTITY	WEIGHT	
MOUNT	SITEPRO1	CWT01		-		116.50 LBS	33'-0"	3	349.5 LB\$	
MOUNT	SITEPRO1	UGLM				87.58 LBS	33'-0"	1	87.58 LBS	
ANTENNA	COMMSCOPE	NHH-45A-R2B	48.0"	18.0"	7.0"	63.1 LBS	33'-0"	2	66.0 LBS	
RRU	ERICSSON	4890	21.8*	15.7*	7.5"	84.0 LBS	33'-0"	1	75.0 LB\$	
RRU	ERICSSON	4490	15.0"	13.0"	9.0"	70.0 LBS	33'-0"	1	71.0 LBS	

SECTOR	QTY	AZIMUTH	TECH.	TIP HEIGHT	MF'R	MODEL#	ANTENNA SIZE	MECH. TILT	FEEDER CABLE	CABLE LGTH.
D1	1	0°	5G	79'-2" (79.2')	ERICSSON	AIR6419	34.5*	0° (2° ELEC)	FIBER	TBD
D2	1	0°	4G	80'-6" (80.5')	AML	MX12FRO445-01	56.9"	0° (2° ELEC)	FIBER	TBD
D2	1	225°		79'-2" (79.2')	ERICSSON	AIR6419	34.5"	0° (2° ELEC)	FIBÉR	TBD
D2	1	225°		80'-6" (80.5')	JMA	MX12FRO445-01	56.9"	0°	FIBER	TBD

EXPIRES: 6/30/2025

ANTENNA SCHEDULE

KM 90% PCD REVIEW 05/22/23 SURVEY UPDATE KM RFDS UPDATE DO 100% FINAL CD KM CLIENT COMMENTS KM CLIENT COMMENTS

VSE Project Number: U2350-1241-241

verizon



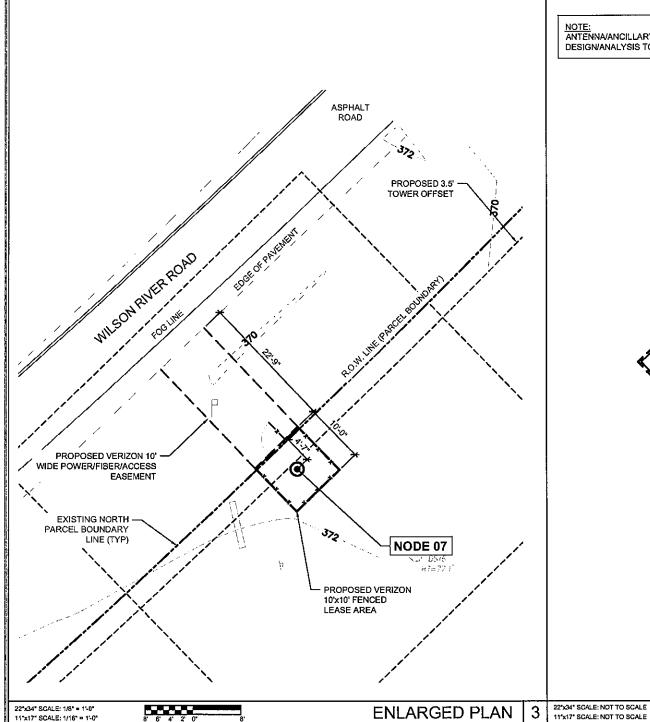


HWY 6 SMALL CELL NODE 07 35300 WILSON RIVER HWY

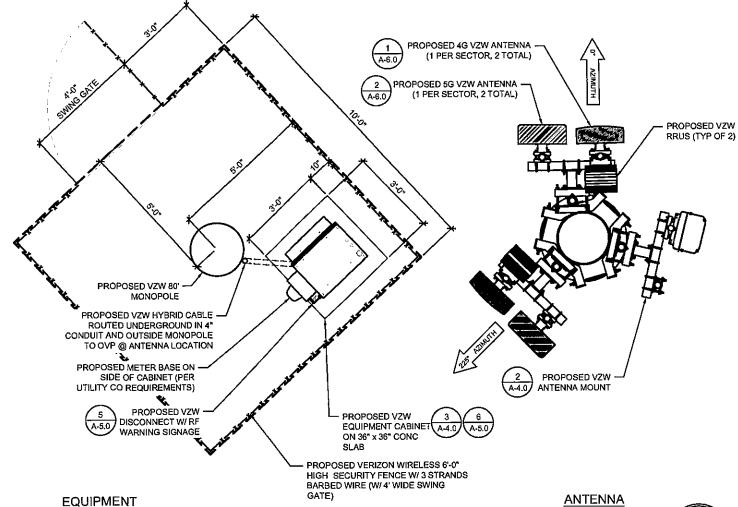
ANTENNA & **EQUIPMENT PLANS**

TILLAMOOK, OR 97141

A-2.0

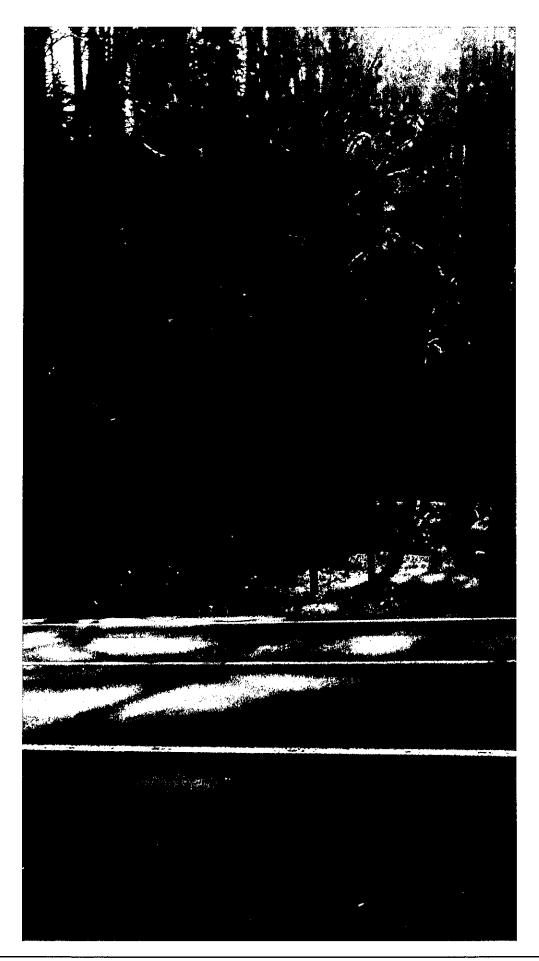


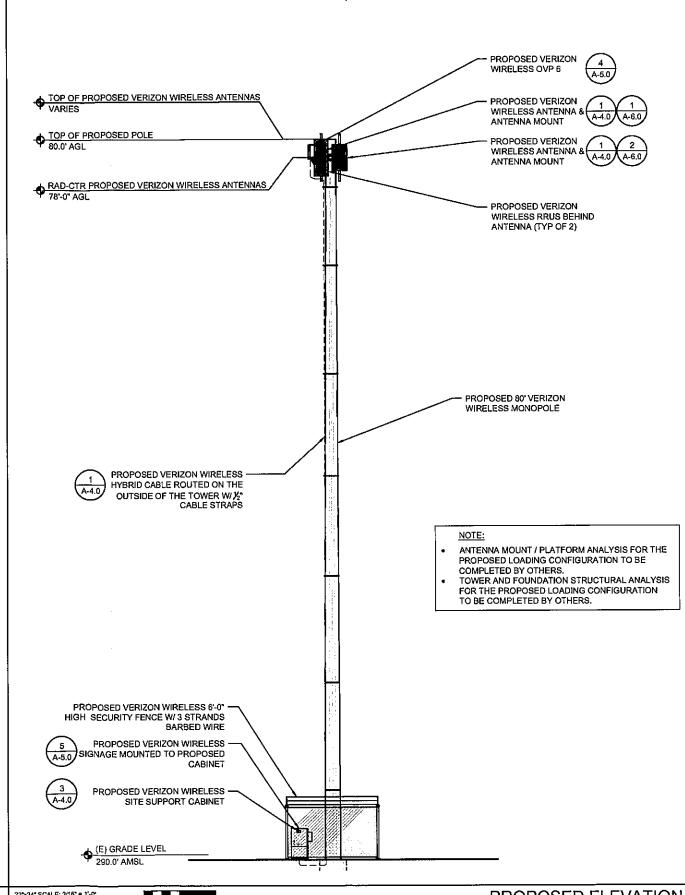
NOTE: ANTENNA/ANCILLARY EQUIPMENT MOUNT DESIGN/ANALYSIS TO BE PERFORMED BY OTHERS



EQUIPMENT

PROPOSED ANTENNA / EQUIPMENT PLAN







EXPIRES: 6/30/2025

02/11/2025

VSE Project Number: U2350-1241-241

I	NO.	DATE	ORAWN	REVISION
	Α	05/22/23	км	90% PCD REVIEW
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	С	05/04/24	км	RFDS UPDATÉ
	0	12/11/24	00	100% FINAL CD
١	1	01/27/25	км	CLIENT COMMENTS
İ	2	02/11/25	км	CLIENT COMMENTS





HWY 6 SMALL CELL NODE 07

35300 WILSON RIVER HWY TILLAMOOK, OR 97141

EXISTING & PROPOSED ELEVATIONS

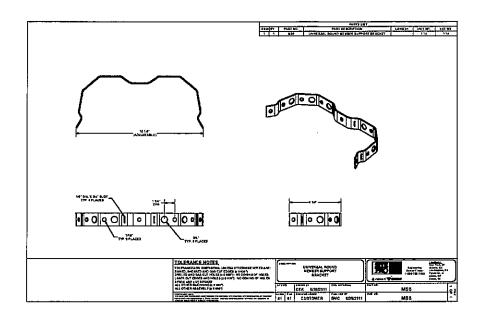
A-3.0

22"x34" SCALE: 3/8" = 1'-0" 11"x17" SCALE: 3/16" = 1'-0"

EXISTING ELEVATION

22"x34" SCALE: 3/16" = 1"-0" 11"x17" SCALE: 3/32" = 1'-0"

PROPOSED ELEVATION 2

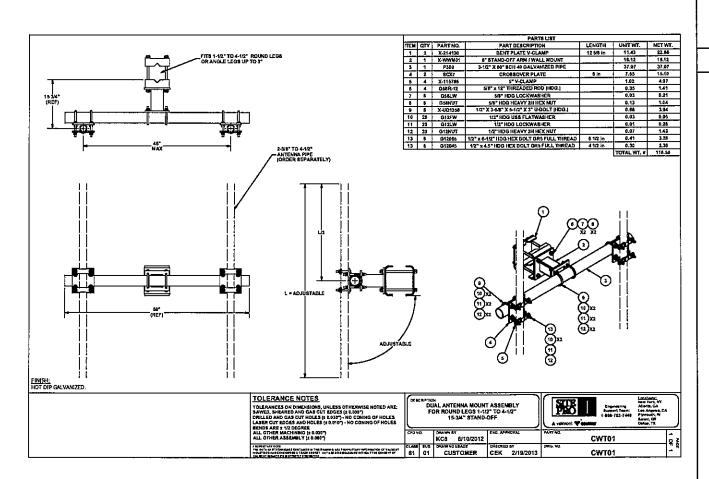


NOTE:

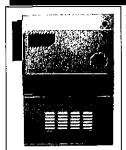
- ATTACH TO MONOPOLE WITH 1/2*
 BANDING PER MANUFACTURER'S
 RECOMMENDATIONS
- PROVIDE SNAP-IN HANGERS TO

22"x34" SCALE: NOT TO SCALE

TOWER - HYBRID SUPPORT BRACKET



Charles Universal Broadband Enclosures (CUBE) RL212 Series Remote Radio Head / Power Support Cabinets



The CUBE-RL212 Series cabinat

The CUBE-RL212 Sories cabinat provides environmental protection for a wide variety of telecom applications, including wireless, floer transport cell site backhaul, and other remote butdoor applications where 48 VDC is required. The most common applications for these cabinets are to house power and batery backup for remote radio heads. Commercial AC power is conversed to 48 VDC using a third-party rectifier (supports most major manufactures). The separism battery chambler is designed for up to 100Ah Ni-Cd or VRLA batteries.

... 39"H x 26"W x 20"D
... 24"H x 26"W x 20"D
... 24"H x 26"W x 20"D
... 12RU / 19" EM Stendard
... Padlockable, 216-Style Lock
... 8 Position Load Center
... 15"H x 26"W x 20"D
... Supports 1 String 48"V (or two 24"V) 100Ah Ni-Cd or VRLA
... 8 Position, 2-Hole Ground Bar
... (3) 1.75"2.5" Knockouts on Right-Hand Side,
... (1) 1.75"2.5" and (2) 1.375" Knockouts on Bottom
... 24"DC/48"VDC 580 or 750 Wett Heat Exchargers
... 178" Welded Alumisum, 0ff-White Finish
... Was or H-Frane, Pole Mount Kit opponal (97-CABPMTKIT),
... 10" Plinth optional (97-002176-A) MADE IN THE Thermal Management.

Charles Part #	Standard Mounting	Overall Dimensions (In.)	RU	Equipment Chamber Dimensions (in.)	Battery Chambor Dimensions (in.)	Load Center	Thornal	Integrated Power	Weight Empty (lbs.)	Weight w/NI-Cd Baltery
CUBE-RL21221AB1	Wall-K-Frame	39x26x20	12	24x26x20	15x26x20	8 Position	580W 48VDC HX	GE SPS 48V (3) 20A Rectifiers	170	372
CUBE-RL21221AE2	Wall#:Frame	39×26×20	12	24x26x20	15:28:20	8 Pos & Gen	580W 48VDC HX	GE SPS 48V (2) 20A Rediffers	170	372
CUBE-RL21221AH1	WallH-Frame	39x26x20	12	24x26x20	15x28x20	6 Position	560W 46VDC HX	Ellek 48V (2) 4BA Reclifions	165	367
CUBE-RL21221AH3	Wall/H-Frame	39x26x20	12	24x26x20	15x26x20	6 Position	580W 24VDC HX	Ellak 24V (2) 60A Rectifiem	165	367
CUBE-RL21221AH4	Wall/H-Frame	39x26x20	12	24x26x20	15/26/20	6 Position	580W 48VDC HX	Ellek 48V (1) 40A Rectifier	165	367
CUBE-RL2 122 1AH5	Walth-Frame	39x26x20	12	24x26x20	15x26x20	6 Position	560W 46VDC HX	None	150	352
CUBE-RL21221AH7	Wall/H-Frame	39x26x20	12	24×26×20	15x26x20	6 Position	560W 24VDC HX	Eltek 24V (2) 40A Rectifiers	165	367
CUBE-RL21221AH8	Wall/H-Franto	39×26×20	12	24x26x20	15x26x20	6 Position	560W 46VDC HX	GE Infinity D 46V, No Rectifiors	160	385
CUGE-RL21221DB1	Wall/H-Frame	39x26x20	12	24×28×20	15x26x20	6 Position	750W 48VDC HX	None	150	352
CUBE-RL21221DB2	Wall/H-Frame	39x26x20	12	24x26x20	15x26x20	6 Position	750W 48VDC HX	GE Infinity D 48V, (2) 50A Rectifiers	165	387
CUBE-RL21221DL1	Wall/H-Frame	39x26x20	12	24x26x20	15x26x20	6 Pos & Gen	750W 48VDC HX	None	150	385
CURE DI 21221012	WallAl Frama	30/26/20	17	24×26×20	15x26x20	R Pos & Gen	750W 48VDC HX	GE infinity D 46V	180	385

For additional product information, please visit www.charlesindustries.com

INNOVATIVE ENCLOSED SOLUTIONS

EQUIPMENT CABINET SPECIFICATIONS | 3

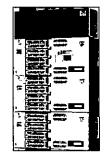
Ordering Information - Infinity D Power System

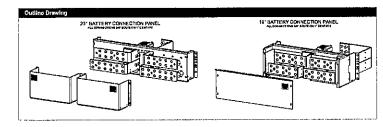
Dual Voltage, Modular Power System

Infanty-D may be configured as a +24V or -48V single vottage power infanty-D systems may be equipped in 19°, 23° or 26° wide 7ft system or as a "dual voltage" power system that supporter rectifiers and converters. The primary voltage is supported by +24V or -48V supported by DC/DC conveners. The primary voltage as pacity is 1,600A at both 24V and 45V. Secondary voltage capacity is up to 300A per system.

Features

- Infinity Rectifiers for +24V and -48V applications.
- · Modular architecture for easy growth and low cost
- DCADC converter support for dual voltage systems
- . DC distribution in each system module for efficient scalability • Temperature hardened harsh environments. (-40°C to +75°C)
- Compact size: 81 (203mm) high, 16.91 (429mm) deep.
- Adjustable frame mounting for 19*, 23* and 26* applications
- Battery namel for battery connection and LVBD option.
- Plug-N-Play Pulsar Plus controller with Web based interface for local and remote (CO-LAN) access.
- · Distribution options include 3A-400A bullet style circuit breakers and





Stand Alone Single Shelf Rectifier Systems (Cannot be expanded)										
Output	Ordering Code	Model	Frams	Picturo						
<i>(</i>)	,	46V, 200A Inferly D System, Ind SY System Modula with integral battery connection, 10 breaker positions and LYBD, 25' wides, no transe, Equipped with Pulsar Plass system confider with Element communications. Suitable for frame or cannot mounting (not included)	No Frants							
200A	CC109151107	H2007001 G003, G021D, G223	System width 23"	No more						
	CC100150100	H207001 G003, G021F, G223	System width 19"							

EXPIRES: 6/30/2025

02/11/2025 VSE Project Number: U2350-1241-241

ļ	NO,	DATE	DRAWN	REVISION
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	В	08/03/23	КМ	SURVEY UPDATE
	С	05/04/24	KIM	RFDS UPDATE
	D	12/11/24	20	100% FINAL CD
	1	01/27/26	км	CLIENT COMMENTS
	2	02/11/25	км	CLIENT COMMENTS







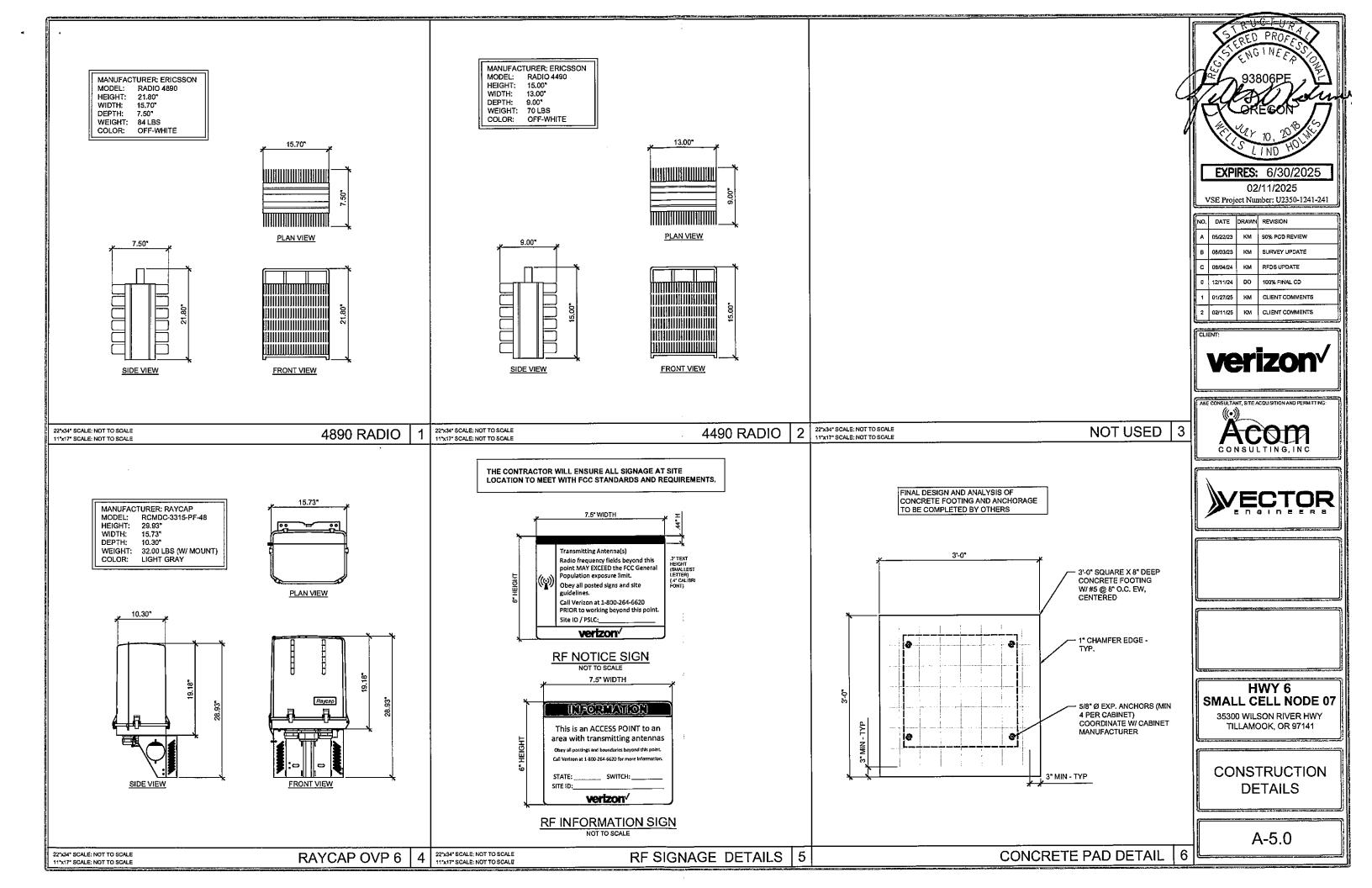


HWY 6 **SMALL CELL NODE 07**

35300 WILSON RIVER HWY TILLAMOOK, OR 97141

CONSTRUCTION **DETAILS**

A-4.0



TECHNICAL SPECIFICATIONS AIR 6419 B41

PRODUCT NUMBER:

KRD 901 212/11

ADVANCED ANTENNA SYSTEM

Operating frequency band: Instantaneous bandwidth:

3GPP Band 41, 2496 - 2590 MHz (full band) 194 MHz

Output Power 320 W EIRP max. (3x1) x (4x8)

Antenna configuration Architecture:

64T64R connected to an array of dual polarized antenna elements.

Downlink

Up to 256 QAM. Up to 64 QAM.

functionality*:

Downlink SU-MIMO Downlink MU-MIMO

Up to 16 layers per carrier.

Uplink SU-MIMO Uplink MU-MIMO

Up to 16 layers per carrier.

Cell shoping

Pre-defined cell or broadcast beam shopes*; Macro, Hotspot and High-rise.

Digital down-tilt

Continuously adjustable for macro scenario, fixed for Hotspot and High-rise scenario.

Mechanical specifications

Size (H x W x D):

31 kg (68.5 lbs) excluding installation kit

876 x 596 x 293 mm (34.5" x 29.6" x 8.0") (including protrusions) 852 x 506 x 160 mm (33.6" x 20.0" x 6.3") (excluding protrusions)

Operational specifications

Wind Load Maximum: Operating Temperature Range: 653 N (front), 118 N (side) @ 42 m/s wind speed (pole installed)

- 40° to + 55° C $\leq 1,120 \,\mathrm{W/m^2}$ Relative humidity: 2% to 100% Absolute humidity: 0.26 to 40 g/m3

IP Classification:

Two eCPRI interfaces using 25G SFP+ ports with link capacity 25 Gb/s each.

One 25 Gb/s eCPRI interface is sufficient for up to 100 MHz corrier bandwidth and 16 layers.

Power Supply:

Handling:

-48 V DC (3-wire or 2-wire) via a connector.

Maximum fuse rating is 50 A.

Hondle for lifting and hoisting.

Optional mechanical tilt and swivel installation kit for wall and pole mounting.

IP65

enarios, cells ar broadcast beam shapes possible with future software releases. Refer detailed description for more details on NR and EIRP for specific scenarios

SE-164 EC Stockholm, Sweden

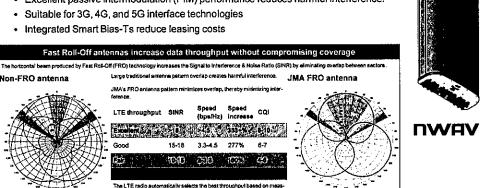


MX12FRO445-01

NWAV™ X-Pol 12-Port Antenna

X-Pol 12-Port 4 ft, 45° Fast Roll Off, with Smart Bias Ts, 698-2690 MHz: 4 ports 698-894 MHz, 8 ports 1695-2690 MHz

- 12-Port antenna offering the same functionality as 2 Hex Port antennas in a single unit
- Fast Roll Off (FRO™) Azimuth beam patterns improves intra-inter-cell SINR
- · Optimized form factor for reduced wind loading
- Fully integrated (iRETs) with independent RET control for low band and mid band
- Excellent passive intermodulation (PIM) performance reduces harmful interference.



Electrical specification (minimum/maximum)	Ports 1	, 2, 3, 4		Ports 5, 6	, 7, 8. 9,	10, 11, 12	
Frequency bands, MHz	698- 806	806- 894	1695- 1880	1850- 1990	1920- 2180	2300- 2360	2496- 2690
Polarization	±4	5°			± 45°		
Average gain over all tilts, dBi	12.7	13.0	15.9	16.2	16.8	16.8	16.6
Horizontal beamwidth (HBW), degrees 1	46	43	40	40	36	31	29
Front-to-back ratio, co-polar power @180°± 30°, dB	>25.0	>25.0	>25.0	>25.0	>25.0	>25.0	>25.0
X-Pol discrimination (CPR) at boresight, dB	>20.0	>18.0	>19	>18	>18	>18	>18
Vertical beamwidth (VBW), degrees ¹	31.0	27.0	12,0	11,4	11.0	10.0	9.0
Electrical downtilt (EDT) range, degrees	2-	-16			0-9	~	
First upper side lobe (USLS) suppression, dB ¹	≤-18.0	≤-18.0	≤-18.0	≤ -18.0	≤-18.0	≤-18.0	≤-18.0
Cross-polar isolation, port-to-port, dB ¹	25	25	25	25	25	25	25
Max VSWR / return loss, dB	1.5:1/-14.0		1,5;1/-14.0				
Max passive intermodulation (PIM), 2x20W carrier, dBc	-1	53	-153				
Max input power per any port, watts	300 250						
Total composite power all ports, watts	1500						

1 Typical value over frequency and tilt

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01/02/24 V2.0 Page 1



EXPIRES: 6/30/2025

02/11/2025

VSE Project Number: U2350-1241-241

	NO.	DATE	DRAWN	REVISION
	Α	05/22/23	км	90% PCD REVIÈW
-	В	06/03/23	КМ	SURVEY UPDATE
	С	06/04/24	км	RFDS UPDATE
į	O	12/11/24	DO	100% FINAL CD
Ì	1	01/27/25	КМ	CLIENT COMMENTS
	2	02/11/25	км	CLIENT COMMENTS







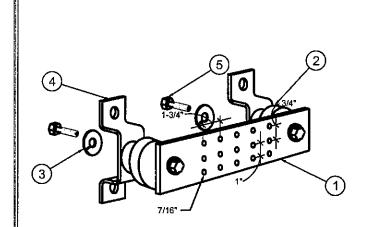
HWY 6 **SMALL CELL NODE 07** 35300 WILSON RIVER HWY

TILLAMOOK, OR 97141

ANTENNA DETAILS

A-6.0

22"x34" SCALE; NOT TO SCALE 11"x17" SCALE; NOT TO SCALE

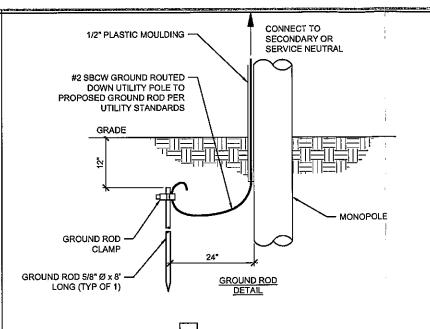


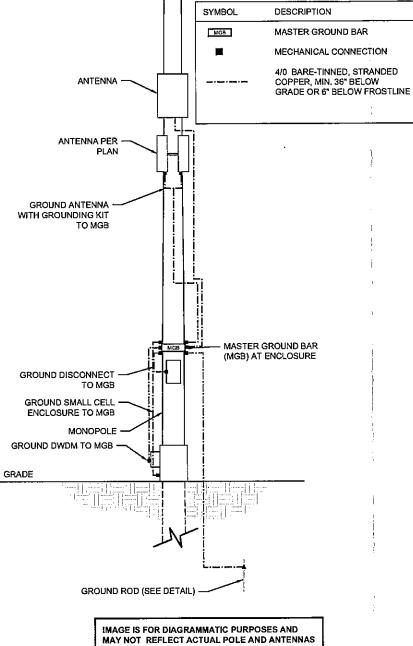
- GALVANIZED STEEL GROUND BUSBAR, 1/4" X 4" X 6". INSULATORS, MEET REQUIREMENTS OF UL 94 VO
- FOR SELF-EXTINGUISHING MATERIALS.
- 3/8" LOCKWASHERS.
- MOUNTING BRACKET
- 3/8-11 X 1" HHCS BOLTS.

22"x34" SCALE: NOT TO SCALE 11"x17" SCALE: NOT TO SCALE

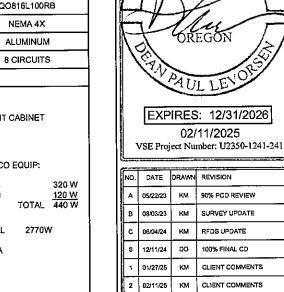
GROUND BAR DETAIL

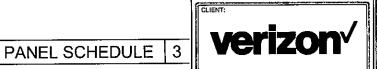
- GROUNDING SHALL COMPLY WITH THE APPLICABLE EDITION OF THE NATIONAL ELECTRICAL CODE AS RECOGNIZED BY THE JURISDICTION
- 2. ALL GROUNDING METHODS SHALL CONFORM TO THE CURRENT VERIZON STANDARDS.
- 3. MASTER GROUND BARS (MGB) SHALL BE GALVANIZED STEEL, 4" x 6"
- 4. MINIMUM BENDING RADIUS FOR GROUND CONDUCTOR IS 8", WHEN BENDING IS NECESSARY. GROUND CONDUCTORS ARE TO BE AS STRAIGHT AS POSSIBLE.
- 5. NO SPLICES PERMITTED IN GROUND CONDUCTORS.
- ALL GROUNDING CONNECTORS TO BE CLEAN AND FREE OF PAINT AT THEIR MATING SURFACES AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. USE PENETROX OR EQUIVALENT ANTIOXIDANT GREASE.
- 7. ALL GROUND BAR CONNECTIONS ARE TO BE 2 HOLE LUG COMPRESSION TYPE. STACKED CONNECTIONS ARE NOT ACCEPTABLE. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BAR WILL BE PERMITTED.
- ENSURE ALL MECHANICAL CONNECTORS ARE TORQUED TO THE MANUFACTURER'S SPECIFIED VALUES.
- IF EXISTING GROUND ROD IS NOT PRESENT, NEW GROUND ROD SHALL MEET AVISTA STANDARDS.
- 10. MULTIPLE BONDS ON GROUND RODS TO BE SEPARATED BY AT LEAST 6".
- 11. MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED A RESISTANCE OF 5 OHMS TO EARTH.
- 12. GROUND WIRES SHALL NOT BE INSTALLED THROUGH HOLES IN ANY METAL OBJECTS OR SUPPORTS TO PRECLUDE ESTABLISHING A
- 13. FERROUS METAL CLIPS WHICH COMPLETELY SURROUND THE GROUND WIRE SHALL NOT BE USED. METAL CLIPS THAT DO NOT COMPLETELY SURROUND THE GROUND WIRE OR PLASTIC ARE ACCEPTABLE.





PANEL	NAME		VERIZON			MANUFACTURE	٦		SQ-D		
VOLTS			120/240			MODEL NUMBER	₹	QO816L100RB			
PHASE	1		V	VIRE	3	ENCLOSURE RATI	NG	NEMA 4X		"	
BUS R	ATING			60 AMP	S (MAX)	MATERIAL		ALUMINUM			
MAIN BR	EAKER			60 A	MPS	POSITIONS		8	CIRCUITS	}	
LOAD		POS	BRK		Α	NOTES:					
4449		1	15 120		120	PANEL IS LOCATED ON EQUIPMENT CABINET					
8843		2	15		120	7					
RECEP	Г	3	15		120	LOAD:		TELCO	EQUIP:		
HVAC	.,	4	20		120	RECEPT LIGHTING	180 -0-	8843 4449		320 W 120 W	
RACK EQ	UIP	5	20		120	HVAC EQUIP TELCO EQUIP	1500 440		TOTAL	440 W	
SPACE		6			120	RACK EQUIP	650				
SPACE		7			120	TOTAL LOAD: 2770\	VA/240V =	: 11.54A			
		1			120	┑					









HWY 6 SMALL CELL NODE 07 35300 WILSON RIVER HWY

TILLAMOOK, OR 97141

GROUNDING DETAILS

E-1.0

4G ANTENNA @ POLE (TYP OF 2) POWER SPLITTER QUAD DIPLEXER 4890 OVP 6 11.1 HYBRID TO OVP CHARLES LT-RL21221DB2 JUMPERS AS REQUIRED (REFER TO LATEST RFDS FOR DETAILS) INTEGRATED LOAD CENTER (SQUARE D QO816L100RB) ATTACHED TO OUTSIDE OF 19-61 CABINET ENCLOSURE 60A/2P POWER DISCONNECT GE PDU W/ RECTIFIERS #2 SBCW GROUND ROUTED DOWN UTILITY POLE TO PROPOSED GROUND ROD PER 2" DIA. SCH 40 PVC CONDUIT W/ 60A -UTILITY STANDARDS FEEDER (3 #6) ROUTED FROM EXISTING UNDERGROUND POWER LINE TO EQUIPMENT CABINET PROPOSED 5/8" GROUND EXISTING UNDERGROUND

22"x34" SCALE: NOT TO SCALE 11"x17" SCALE: NOT TO SCALE

GROUNDING DIAGRAM

TYPICAL ONE-LINE DIAGRAM | 4

ROD; CLAMP WITH ACORN CONNECTOR PER UTILITY CO STANDARDS

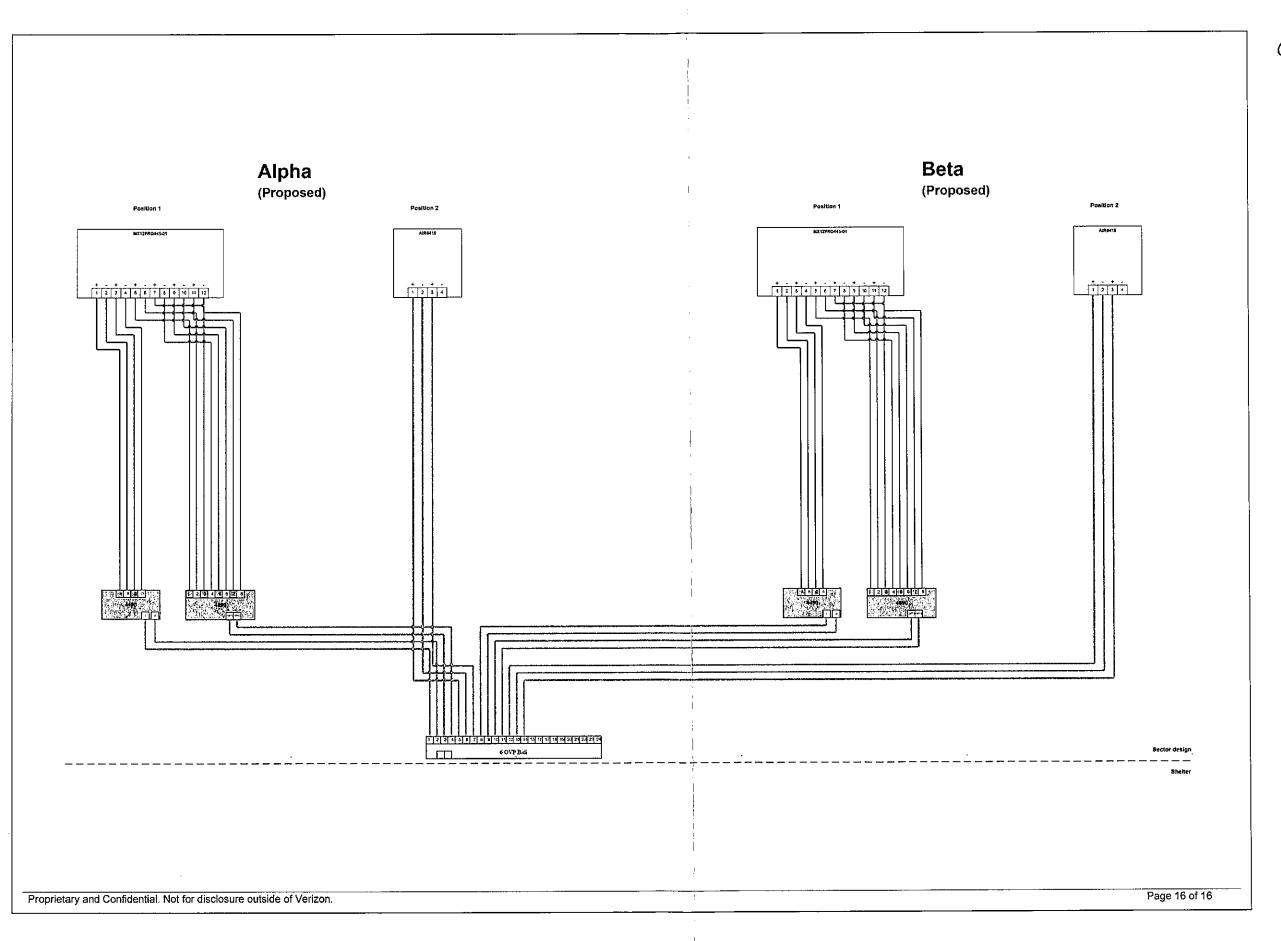
22"x34" SCALE; NOT TO SCALE **GROUNDING NOTES** 11"x17" SCALE: NOT TO SCALE

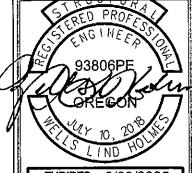
22"x34" SCALE: NOT TO SCALE 11"x17" SCALE: NOT TO SCALE

POWER, GENERAL CONTRACTOR

TO COORDINATE WITH UTILITY TO PROVIDE 120/240 V, 1PH POWER

22"x34" SCALE: NOT TO SCALE 11"x17" SCALE: NOT TO SCALE





EXPIRES: 6/30/2025 02/11/2025 VSE Project Number: U2350-1241-241

					~
	NO.	DATE	DRAWN	REVISION]
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ļ	В	08/03/23	KM	SURVEY UPDATE	
۱	С	06/04/24	км	RFDS UPDATE	
	0	12/11/24	DO	100% FINAL CD	
H	·	04/07/05		CLUCKE CONNENTS	٦

verizon[/]





HWY 6 SMALL CELL NODE 07

35300 WILSON RIVER HWY TILLAMOOK, OR 97141

ANTENNA CONFIGURATION

RF-1

EXHIBIT C

Sarah Absher

From:

Sarah Thompson

Sent:

Wednesday, April 23, 2025 11:27 AM

To:

Sarah Absher

Subject:

FW: EXTERNAL: RE: #851-25-000096-PLNG

#851-25-000096-PLNG

From: BRADLEY Robert * ODFW < Robert.BRADLEY@odfw.oregon.gov>

Sent: Monday, March 31, 2025 11:32 AM

To: Sarah Thompson <sarah.thompson@tillamookcounty.gov>; Sarah Absher <Sarah.Absher@tillamookcounty.gov>

Cc: Melissa Jenck < Melissa. Jenck@tillamookcounty.gov>

Subject: EXTERNAL: RE: #851-25-000096-PLNG

[NOTICE: This message originated outside of Tillamook County -- DO NOT CLICK on links or open attachments unless you are sure the content is safe.]

This application is a little confusing as to the location of the project. At the arrows noting the approximate location on the attachments (and within 5 feet of the highway), the project would actually be located on tax lot 500 (or maybe just within the highway right of way). Using the coordinates and written description from the attached plan set, the location would be further east and adjacent to Jordan Creek and Jordan Creek Road (and on tax lot 400). The location closer to Jordan Creek appears to be the correct site.

ODFW recommends the project not encroach into the riparian setback of Jordan Creek, the Wilson River, or any other stream that may be present on the project site.

ODOT should be consulted as this is most likely within their right of way on Hwy 6.

If the location closer to Jordan Creek is correct, there are overhead power lines located near the highway that might be a consideration for construction.

Robert

Robert W. Bradley
District Fish Biologist
Oregon Department of Fish and Wildlife
North Coast Watershed District
4907 Third St
Tillamook, OR 97141
503-842-2741 x18613 (w)
503-842-8385 (fax)

From: Sarah Thompson <sarah.thompson@tillamookcounty.gov>

Sent: Monday, March 31, 2025 10:34 AM

To: Sarah Absher < Sarah. Absher@tillamookcounty.gov > Cc: Melissa Jenck < Melissa. Jenck@tillamookcounty.gov >

Subject: #851-25-000096-PLNG

Good morning,

Please see the link below for the Notice of Application for #851-25-000096-PLNG for a Variance Request.

https://www.tillamookcounty.gov/commdev/project/851-25-000096-plng

Thanks,



Sarah Thompson (she/her) | Office Specialist 2
TILLAMOOK COUNTY | Surveyor Department
1510-B Third Street
Tillamook, OR 97141
Phone (503) 842-3408 x3423
Sarah.thompson@tillamookcounty.gov

Sarah Absher

From:

Sarah Thompson

Sent:

Wednesday, April 23, 2025 11:27 AM

To:

Sarah Absher

Subject:

FW: EXTERNAL: RE: 13624_Murakami

#851-25-000096-PLNG

From: BAUMGARTNER Douglas G < Douglas.G.BAUMGARTNER@odot.oregon.gov>

Sent: Thursday, April 17, 2025 1:28 PM

To: Sarah Thompson <sarah.thompson@tillamookcounty.gov>

Subject: EXTERNAL: RE: 13624_Murakami

[NOTICE: This message originated outside of Tillamook County -- DO NOT CLICK on links or open attachments unless you are sure the content is safe.]

Good afternoon Sarah,

The proposed cell tower installations along OR6 do not include new highway approaches or modifications to existing highway approaches and therefor my only comment is that any work proposed in the ODOT right of way will need a MISC permit through the ODOT District 1 Maintenance Office.

Have a great day!

Doug

From: Sarah Thompson <sarah.thompson@tillamookcounty.gov>

Sent: Monday, March 31, 2025 10:34 AM

To: Sarah Absher <<u>Sarah.Absher@tillamookcounty.gov</u>> **Cc:** Melissa Jenck <<u>Melissa.Jenck@tillamookcounty.gov</u>>

Subject: 13624_Murakami

This message was sent from outside the organization. Treat attachments, links and requests with caution. Be conscious of the information you share if you respond.

Good morning,

Please see the link below for the Notice of Application for #851-25-000096-PLNG for a Variance Request.

https://www.tillamookcounty.gov/commdev/project/851-25-000096-plng

Thanks,



Sarah Thompson (she/her) | Office Specialist 2 **TILLAMOOK COUNTY** | Surveyor Department

Tillamook, OR 97141
Phone (503) 842-3408 x3423
Sarah.thompson@tillamookcounty.gov

1510-B Third Street