



Building Permit Application
City of Portland, Oregon - Bureau of Development Services

1900 SW 4th Avenue, Portland, Oregon 97201 • 503-823-7310 • TTY 503-823-6868 • www.portlandoregon.gov/bds

13-103661 (20)

Type of work

New construction Addition/alteration/replacement

Demolition Other:

Category of construction

1 & 2 family dwelling Commercial/industrial Accessory building

Multifamily Master builder Other:

Job site information and location

Job no.: Job address: 12000 SW 49th Ave

City/State/ZIP: Portland, OR 97219

Suite/bldg./apt. no.: Project name: PO02020B-PCC Sylvania

Cross street/directions to job site: SW Capital Hwy & SW 49th

(Tax Map/Parcel: 1S1E31D 200)

Subdivision: Lot no. Tax map/parcel no.

Description of work

T-Mobile proposes to add (6) antennas
 and related ancillary equipment at the existing cellular site

Reference RS / Combination Permit no.

Property owner Tenant

Name: Portland Community College

Address: PO Box 6119

City/State/ZIP: Aloha, OR 97219

Phone: FAX:

Owner installation: This installation is being made on property that I own, which is not intended for sale, lease, rent, or exchange.

Owner signature: Date:

Contractor

Business name: TBD

Address: TBD

City/State/ZIP: TBD

Phone: TBD FAX:

CCB lic. no. TBD

Authorized signature: _____

Print name: Date:

Applicant Contact Person

Business name: T-Mobile West, LLC

Steve Bodine, Contractor, Odelia Pacific Corp

Address: 9635 SW Washington St

City/State/ZIP: Portland, OR 97225

Phone: 503-544-9695 FAX:

E-mail: sbodine@odelia.com

Authorized signature: *Steve Bodine*

Print name: STEVE BODINE, ODELIA PACIFIC Date: 1/11/13

This permit application expires if a permit is not obtained within 180 days after it has been accepted as complete.

Office Use Only

Permit no: _____

Date received: _____

By: _____

Required Data: One and Two Family Dwelling

Permit fees* are based on the value of the work performed. Indicate the value (rounded to the nearest dollar) of all equipment, materials, labor, overhead, and the profit for the work indicated on this application.

Valuation:	Not Applicable
Number of bedrooms:	
Number of bathrooms:	
Total number of floors:	
New dwelling area:	square feet
Garage/carport area:	square feet
Covered porch area:	square feet
Deck area:	square feet
Other structure area:	square feet

Required Data: Commercial Use

Permit fees* are based on the value of the work performed. Indicate the value (rounded to the nearest dollar) of all equipment, materials, labor, overhead, and the profit for the work indicated on this application.

Valuation:	\$20,000
Existing building area:	square feet
New building area:	square feet
Number of stories:	
Type of construction:	
Occupancy groups	
Existing:	T-Mobile
New:	

Notice

All contractors and subcontractors are required to be licensed with the Oregon Construction Contractors Board under ORS 701 and may be required to be licensed in the jurisdiction in which work is being performed. If the applicant is exempt from licensing, the following reasons apply.

Statement of Fact: I certify that the facts and information set forth in this application are true and complete to the best of my knowledge. I understand that any falsification, misrepresentation or omission of fact (whether intentional or not) in this application or any other required document, as well as any misleading statement or omission, may be cause for revocation of permit and/or certificate of occupancy, regardless of how or when discovered.

Building Permit Fees*

Please refer to fee schedule

Fees due upon application	
Amount received	
Date received	

Sub-contractor information can be faxed to 503-823-7693.

February 4, 2013

Attn: Lisa Buellesbach

City of Portland
Bureau of Development Services
1900 SW Fourth Avenue, Suite 5000
Portland, OR 97201

Re: Structural Checksheet: Application # 13-103661-000-00-CO, Review Date January 25, 2013; PCC Sylvania, 12000 SW 49th Ave., Portland OR 97219

PLAN CHECK RESPONSE

STRUCTURAL COMMENTS RESPONSE FOR ITEMS 1 THROUGH 3:

1. The completed Structural Special Inspection form will be returned to Special Inspections via fax at (503) 823-4172, hand delivered to 2nd Floor Document Services, or emailed to specialinspectionschecksheets@portlandoregon.gov. Special Inspection for expansion anchor installation requirements have been added to Detail 1/SK3.
2. Steelhead Metal & Fab will provide Three-sided Rooftop Frame SH24215 which has been designed to support the specified project design loads. JJPE Consulting, LLC as analyzed the upgraded frame and has provided certification that the frame can adequately support the design loads. Please refer to the attached certification letter and reference drawing.
3. Darker copies of Sheets S-1 and S-2 have been added in order to provide more legible details after scanning.

RECEIVED
FEB 12 2013
BDS
DOCUMENT SERVICES



JESSE JARAMILLO
CONSULTING ENGINEER

14405 SW Barrows Rd.
Beaverton, OR 97007
Phone (831) 776-9046

Kevin Raddatz
Steelhead Metal & Fab
3958 Boone Road
Salem, OR 97302

February 6, 2013

Subject: SH24215 Roof Top Mount: Three-sided Antenna Frame

Dear Mr. Raddatz:

Per your request, we have analyzed the new Three-sided Roof Top Frame (ref. drawings attached) for the following conditions:

Wind Loading: 95 mph (3 Second Gust) per ANSI/TIA 222-G Sec.2.6.7.1, Structure Class II,
No Ice
Exposure Category B, Topographic Category I

Antenna Loading: (6) – Andrew TMBXX-6516-R2M Panel antennas at top frame (50' AGL)
(3) – Andrew TMBX-6516-R2M Panel antennas at top frame (50' AGL)
(9) – Nokia RRU's (46' AGL +/-)
(1) – Raycap COVP (46' AGL +/-)

Frame materials: Shapes: ASTM A36 ($F_y \geq 36$ ksi)
Pipes: ASTM A53 Gr.B ($F_y \geq 35$ ksi)
Plates: ASTM A36 ($F_y \geq 36$ ksi)
U-bolts: ASTM A307/A36 ($F_y \geq 36$ ksi)
Hardware: SAE Gr.5

Based on our analysis, we have determined that the three sector roof top frame is structurally adequate for the loading shown above.

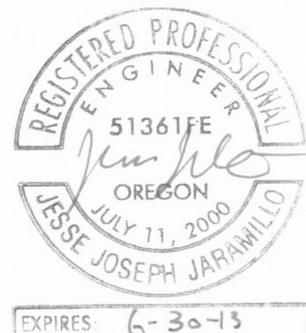
If you have any question or comments relating to the above information, please contact me directly at (831) 776 9046.

Sincerely,

JESSE JARAMILLO P.E.
CONSULTING ENGINEER

Jesse Jaramillo P.E.
Principal

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EXPIRES: 6-30-13

2/6/13



City of Portland, Oregon - Bureau of Development Services

1900 SW Fourth Avenue | Portland, Oregon 97201 | 503-823-7526 | www.portlandoregon.gov/bds

Radio Frequency Transmission Facilities Registration Form

LU Case Number 12-209326 CU

FOR STAFF USE ONLY

Date Received 1-11-13

Building Permit Number 13-103641 CO

Received By S. van Staveren

Date of Installation _____

APPLICANT: Complete all sections below. Please print legibly.

Per Chapter 33.274, Radio Frequency Transmission (RFT) Facilities, all existing RFT facilities must be registered with the City. This includes exempted facilities that are allowed by right, as well as facilities that have been approved through any Land Use Review procedure. Please register each facility separately using this form. Where more than one transmitter, antenna or parameter applies at the same location, please list all relevant information for each item.

Company Name T-Mobile West, LLC

Company Address 8960 NE Alderwood Rd, Portland, OR 97220

Company Phone 503-544-9695 Contact Name Steve Bodine, Contractor, Odelia Pacific, for T-Mobile

Property Owner Portland Community College

Property Owner Address PO box 6119, Aloha, OR 97007

Site Legal Description 1S1E31D 200

Site Address 12000 SW 49th Ave, Portland, OR 97219

Quarter Section _____ Site Zoning IRdc

Broadcast	Wireless	Frequency Range	Type of Installation
# TV	<input checked="" type="checkbox"/> Cellular	# 100KHz-3MHz	# New monopole
# Radio, AM	<input checked="" type="checkbox"/> PCS	# 3MHz-30MHz	# Co-location on existing monopole
# Radio, FM	# SMR	# 30 MHz-300MHz	" # Other carriers: _____
<input checked="" type="checkbox"/> Other _____	# Paging	# 300MHz-1500MHz	<input checked="" type="checkbox"/> Roof mount
<u>Cellular</u>		<input checked="" type="checkbox"/> 1500MHz-300GHz	# Water tank
			# Other (describe) _____
Power density (mW/cm ²): <u>.0225/.0154/.0226</u>		Effective Radiated Power (watts): <u>520.03</u>	
Call letters, if applicable: <u>KNLF 259, REA006</u>		Ground elevation at site (ft. above sea level): <u>674'</u>	
Number of proposed antennas at site: <u>9</u>		Types: <u>Dual & Quad Panel</u>	
Model number(s): <u>TMBX-6516-R2M, TMBXX-6516-R2M</u>		Manufacturer(s): <u>Andrew</u>	
Height above ground: <u>50'</u>		FAA approval needed # <u>yes</u> # <u>no</u>	

Form submitted by [Signature], CONTRACTOR, ODELIA POKL Date 1-11-13

Return all completed forms to: City of Portland, Oregon, Bureau of Development Services
1900 SW Fourth Avenue, Suite 5000, Attn: Planning & Zoning Phone: 503-823-7526
Portland, Oregon 97201 FAX: 503-823-5630



October 5, 2012

To: The City of Portland Bureau of Development Services
Re: Proposed radio frequency facility-

PO02020B (12000 SW 49th Ave, Portland, OR,
97219)

Dear Planner,

The proposed facility noted above will operate at the below listed frequencies, as licensed by the Federal Communications Commission.

PCS Transmit Frequency (MHZ)	PCS Receive Frequency (MHZ)
1930 - 1945	1850 - 1865
UMTS-AWS Transmit Frequency (MHZ)	UMTS-AWS Receive Frequency (MHZ)
2145 - 2155	1745 - 1755
LTE Transmit Frequency (MHZ)	LTE Receive Frequency (MHZ)
2130-2135,2135-2140	1730-1735,1735-1740

The worst case general population exposure limit per the FCC Public standards OET Bulletin 65 and in **Table 274-1** of the City of Portland Zoning Code (Title 33) is

0.0225 mW/cm2 for Sector 1.	ERP (W) = 520.03
0.0154 mW/cm2 for Sector 2.	ERP (W) = 520.03
0.0226 mW/cm2 for Sector 3.	ERP (W) = 520.03

The power density calculations for each sector of the proposed facility (typically less than 1 to 5% of the FCC limit) **will be below the maximum FCC exposure levels, i.e. Below the 1 milliWatts/Cm2 for the uncontrolled area.** The proposed facility is categorically proven as safe, according to Federal Guidelines.

The proposed facility should not interfere with other communications facilities. Our sites are monitored 24/7 by a national operations center to insure all is operating normally. In addition, we have local technicians who make routine visits to cell sites to make repairs when needed.

Additionally, per Oregon code 33.274.040.C.6.b and with reference to code 33.274.040. Table 274-2, proposed modification's will not cause any habitable area of the structure to exceed the FCC Limit's for human exposure to radio frequency electro-magnetic fields.

I certify this information is true to the best of my knowledge.

Regards,

Bernard Rate, PE
FCC PG 00004053