Hearing Officer Transmittal Checklist

Hearing Date
May 3, 2016
Agenda Item No.
4

Project Number: R2015-03222-(5)
Case(s): Conditional Use Permit Case No. 201500128
Planner: Anthony Curzi

- ☒ Project Summary
- ☒ Property Location Map
- ☒ Staff Analysis
- ☐ Draft Resolution / Draft Ordinance / 8.5x11 Map (ZC or PA)
- ☒ Draft Findings
- ☒ Draft Conditions + Other department letters of recommended conditions
- ☐ Previous CUP Conditions of Approval
- ☒ Burden of Proof Statement(s)
- ☐ Environmental Documentation (ND / MND / EIR)
- ☐ Correspondence
- ☒ Photographs
- ☒ Aerial Image(s)
- ☒ Land Use/Zoning Map
- ☐ Tentative Tract / Parcel Map
- ☒ Site Plan / Floor Plans / Elevations
- ☐ Exhibit Map
- ☐ Landscaping Plans
- ☐ Findings and conditions of Previous permit
- ☒ Aerial of Project Site with previous and current SEA boundary
- ☒ SEATAC minutes

Reviewed By: _____

Department *of* Regional Planning
320 West Temple Street
Los Angeles, California 90012

PROJECT NUMBER
R2015-03222-(5)

HEARING DATE
May 3, 2016

REQUESTED ENTITLEMENTS
Conditional Use Permit No. 201500128
Environmental Assessment No. 201500324

PROJECT SUMMARY

OWNER / APPLICANT
San Diego Gas and Electric Company / Crown Castle

MAP/EXHIBIT DATE
August 24, 2015

PROJECT OVERVIEW

The applicant, Crown Castle, requests a conditional use permit (CUP) to authorize the use, and continued operation and maintenance of, an existing wireless telecommunications facility (WTF) in the A-2-2 (Heavy Agricultural – Two Acre Minimum Required Lot Area) Zone. The WTF consists of a 100-foot-tall lattice tower with numerous antennas and telecommunication equipment.

There are numerous WTFs on the subject property and it is not clear if the subject WTF was initially established with a CUP. At the time of Project application submittal, the Project Site was located in a Significant Ecological Area (SEA [Santa Susanna Mountains/Simi Hills SEA]). However, a recent update to the County General Plan has adjusted the boundaries of the SEA to outside the property, and the Project is no longer subject to an SEA CUP

LOCATION
Palo Sola Truck Road

ACCESS
Palo Sola Truck Road from Limekiln Canyon Road

ASSESSORS PARCEL NUMBER
2826-017-802

SITE AREA
2,641.51 Acres

GENERAL PLAN / LOCAL PLAN
Los Angeles County General Plan 2035

ZONED DISTRICT
Newhall

LAND USE DESIGNATION
RL20 (Rural Land 20)

ZONE
A-2-2

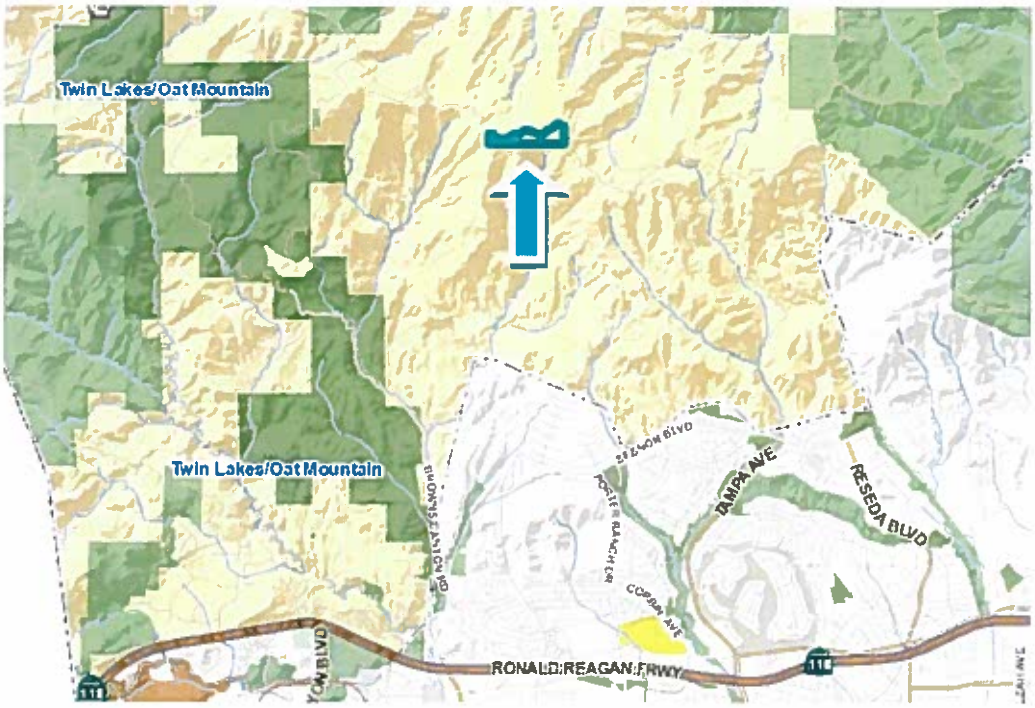
PROPOSED UNITS	MAX DENSITY/UNITS	COMMUNITY STANDARDS DISTRICT
NA	NA	NA

ENVIRONMENTAL DETERMINATION (CEQA)
Class 1 Categorical Exemption – Existing Facilities

KEY ISSUES

- Consistency with the County General Plan
- Satisfaction of the following Sections of Title 22 of the County Code:
  - 22.56.040 (Conditional Use Permit Burden of Proof Requirements)
  - 22.24.150 (A-2 Zone Uses Subject to Permits)
  - 22.24.170 (A-2 Zone Development Standards)

CASE PLANNER:	PHONE NUMBER:	E-MAIL ADDRESS:
Anthony Curzi	(213) 974 - 6443	acurzi@planning.lacounty.gov


Twin Lakes/Oat Mountain
Twin Lakes/Oat Mountain
RESEDA BLVD
RONALD REAGAN FWY

Thousand Oaks
Los Angeles
Ontario
Anaheim
Santa
ORANGE COUNTY
Long Beach
Huntington
Mission
OCEAN
40 mi

ENTITLEMENTS REQUESTED

- Conditional Use Permit (CUP) for the legal establishment, and the continued operation and maintenance of, an existing wireless telecommunications facility (WTF) in the A-2-2 (Heavy Agricultural – Two Acre Minimum Required Lot Area) Zone pursuant to the Los Angeles County Code ("County Code") Section 22.24.150.

PROJECT DESCRIPTION

The applicant, Crown Castle, requests a CUP to legally establish, and to continue operating and maintaining, an existing WTF in an SEA in the A-2-2 Zone. The WTF consists of a 100-foot-tall lattice tower with numerous antennas and telecommunication equipment.

There are numerous WTFs on the subject property and it is not clear if the subject WTF was initially established with a CUP as no records have been located demonstrating such. Building permits, for the subject WTF, however, have been found.

At the time of Project application submittal, the Project Site was located in a Significant Ecological Area (SEA [Santa Susanna Mountains/Simi Hills SEA]). However, a recent update to the County General Plan has adjusted the boundaries of the SEA to outside the property, and the Project is no longer subject to an SEA CUP.

SITE PLAN DESCRIPTION

The site plan depicts the location of the subject WTF, as well as four other WTFs, accessible from Oat Mountain Road. An equipment and antenna layout plan depicts the triangular-shaped lattice tower from the top, and the equipment shelter is depicted (19 feet by 28.5 feet) with numerous cabinets and a microwave dish. Elevations depict the 100-foot-tall lattice tower with antennas on top rising to 103 feet. Numerous panel antennas and microwave dishes are located on the tower from 21 feet upwards. A 7.5-foot-tall chain-link fence surrounds the WTF tower and equipment cabinet.

EXISTING ZONING

The subject property is zoned A-2-2.

Surrounding properties are zoned as follows:
North: A-2-2
South: A-2-2
East: A-2-2
West: A-2-2

EXISTING LAND USES

The subject property is developed with the subject WTF along with four other WTFs.

Surrounding properties are developed as follows:
North: Vacant land, County facility
South: Vacant land

East: Vacant land
West: WTF, vacant land

PREVIOUS CASES/ZONING HISTORY

The following permits established the other WTFs on the property: CUP No. 95-071-(5) established a three-tower WTF on the subject property consisting of (1) a 140-foot-tall lattice tower, (2) a 100-foot-tall lattice tower, and (3) 40-foot-tall monopole August 13, 1996. That CUP expired on September 10, 2006 and was reauthorized by CUP No. 200600217 on April 1, 2008. CUP No. 91-049-(5) authorized a 154-foot-tall WTF tower without expiration date on July 2, 1991.

ENVIRONMENTAL DETERMINATION

Los Angeles County ("County") Staff recommends that this project qualifies for a Categorical Exemption (Class 1 Exemption, Existing Facilities) under the California Environmental Quality Act (CEQA) and the County environmental guidelines as the WTF is existing and no enlargements or modifications are proposed. Therefore, staff recommends that the Hearing Officer determine that the project is categorically exempt from CEQA.

STAFF EVALUATION

General Plan/Community Plan Consistency

The project site is located within the RL20 (Rural Land 20) land use category of the County General Plan 2035 ("General Plan"). This rural land use designation is intended for single-family residences, equestrian and animal uses and agricultural and related activities. The subject property is relatively large at over 2,600 acres and, aside from the WTFs, is vacant and does not detract from the land uses envisioned by the General Plan. The WTF is a largely passive use that will aid in providing telecommunications service to residents and others in the local area and is, therefore, consistent with the permitted uses of the underlying land use category.

The following policies of the General Plan are applicable to the proposed project:

- *General Plan Public Services and Facilities Policy PS/F 6.2: "Improve existing wired and wireless telecommunications infrastructure."*

  The Project will maintain the existing WTF and telecommunications service in the area. Removal of the WTF would diminish the service in the area and be contrary to the above General Plan policy.

- *General Plan Public Services and Facilities Policy PS/F 6.3: "Expand access to wireless technology networks, while minimizing impacts through co-location and design."*

  The Project provides for telecommunications service through a WTF that contains numerous telecommunication equipment in an area distant from incompatible or sensitive land uses.

- *General Plan Public Services and Facilities Policy PS/F 6.4: "Protect and enhance utility facilities to maintain the safety, reliability, integrity and security of utility services."*

Allowing the WTF to continue operating at the subject site will ensure that cellular telecommunications services, a utility-type service, will remain available.

Zoning Ordinance and Development Standards Compliance

Title 22 of the County Code does not explicitly specify "WTF" as a use. The use most consistent with a WTF specified in the County Code is "radio or television stations and towers". Pursuant to Section 22.20.290 of the County Code, development of radio and television stations and towers is a permitted use of property in Zone A-2, provided that a CUP is first obtained.

Pursuant to Section 22.24.170 of the County Code, establishments in the A-2 Zone are subject to the following development standards:

- All applicable development standards are met by the Project.

Burden of Proof

The applicant is required to substantiate all facts identified by Sections 22.56.040 and 22.56.215 of the County Code. The Burden of Proof with applicant's responses is attached. Staff believes that the applicant has met the burden of proof.

The Project meets the objectives of the General Plan as it allows for emergency and every day communication while not detracting from the goals, objectives envisioned by it.

The WTF has existed at the subject site for years without complaints from the community. The property is well buffered from surrounding land uses and is located at such a distance so as not to cause nuisances.

The WTF does not require any deviations from development standards and the property is large enough to accommodate all requirements.

The Project Site is in a rural and mountainous area, and there are few opportunities for routine pedestrian and bicycle trips. There are no sidewalks or bikeways present in the area. While maintenance vehicles will periodically visit the Project Site, there is adequate capacity on local roads to handle them, and there is adequate parking on the Project Site for them.

Neighborhood Impact/Land Use Compatibility

The Project Site is located approximately 1.7 miles away from residential uses and Staff believes that the property is well-suited for the placement of WTFs as it is a very large property that is compatible with such use.

COUNTY DEPARTMENT COMMENTS AND RECOMMENDATIONS
SEATAC has reviewed the WTF at their January 2016 meeting and does not find any issues with the existing facility in the SEA.

LEGAL NOTIFICATION AND PUBLIC OUTREACH
Pursuant to the provisions of Sections 22.60.174 and 22.60.175 of the County Code, the community was appropriately notified of the public hearing by mail, newspaper, property posting, library posting and DRP website posting.

PUBLIC COMMENTS
Staff has not received any comments at this time.

FEES/DEPOSITS
If approved, fees identified in the attached project conditions will apply unless modified by the Hearing Officer.

STAFF RECOMMENDATION
The following recommendation is made prior to the public hearing and is subject to change based upon testimony and/or documentary evidence presented at the public hearing:

Staff recommends **APPROVAL** of Project Number R2015-03222-(5), Conditional Use Permit Number 201500128, subject to the attached conditions.

SUGGESTED APPROVAL MOTION:

I, THE HEARING OFFICER, CLOSE THE PUBLIC HEARING AND FIND THAT THE PROJECT IS CATEGORICALLY EXEMPT PURSUANT TO STATE AND LOCAL CEQA GUIDELINES AND APPROVE CONDITIONAL USE PERMIT NUMBER 201500128 SUBJECT TO THE ATTACHED FINDINGS AND CONDITIONS.

Prepared by Anthony Curzi, Regional Planning Assistant II, Zoning Permits North Section
Reviewed by Robert Glaser, Supervising Regional Planner, Zoning Permits North Section

Attachments:
Draft Findings, Draft Conditions of Approval
Applicant's Burden of Proof statement
Correspondence
Site Photographs, Aerial Image
Site Plan, Land Use Map

RG:AMC
April 21, 2016

DRAFT FINDINGS OF THE HEARING OFFICER
AND ORDER
COUNTY OF LOS ANGELES
PROJECT NO. R2015-03222-(5)
CONDITIONAL USE PERMIT NO. 201500128

1. The Los Angeles County ("County") Hearing Officer conducted a duly-noticed public hearing in the matter of Conditional Use Permit No. 201500128 ("CUP") on May 3, 2016.

2. The permittee, Crown Castle ("permittee"), requests the CUP to authorize the legalization, and the continued operation and maintenance of, an existing wireless telecommunications facility (WTF) ("Project") on a property located at Palo Sola Truck Road in the unincorporated community of Oat Mountain ("Project Site") in the A-2-2 (Heavy Agricultural – Two Acre Minimum Required Lot Area) Zone pursuant to Los Angeles County Code ("County Code") section 22.24.170. There are four other WTFs on the subject property, and it is not clear if the subject WTF was established with a CUP. At the time of Project application submittal, the Project Site was located in a Significant Ecological Area (SEA [Santa Susanna Mountains/Simi Hills SEA]). However, a recent update to the County General Plan has adjusted the boundaries of the SEA to outside the property, and the Project is no longer subject to an SEA CUP.

3. The Project Site is 2,641.51 acres in size and consists of two legal two lots. The Project Site is irregular in shape with steep topography and is developed with five WTFs.

4. The Project Site is located in the Newhall Zoned District and is currently zoned A-2-2.

5. The Project Site is located within the RL20 (Rural Land 20) land use category of the County General Plan ("General Plan") Land Use Policy Map.

6. Surrounding Zoning within a 500-foot radius includes:

   North: A-2-2
   South: A-2-2
   East: A-2-2
   West: A-2-2

7. Surrounding land uses within a 500-foot radius include:

   North: Vacant land, County facility
   South: Vacant land
   East: Vacant land
   West: WTF, vacant land

8. The following permits established the other WTFs on the property: CUP No. 95-071-(5) established a three-tower WTF on the subject property consisting of (1) a 140-foot-tall lattice tower, (2) a 100-foot-tall lattice tower, and (3) 40-foot-tall monopole August 13, 1996. That CUP expired on September 10, 2006 and was reauthorized by CUP No. 200600217 on April 1, 2008. CUP No. 91-049-(5) authorized a 154-foot-tall WTF tower without expiration date on July 2, 1991.

9. The site plan depicts the location of the subject WTF, as well as four other WTFs, accessible from Oat Mountain Road. An equipment and antenna layout plan depicts the triangular-shaped lattice tower from the top, and the equipment shelter is depicted (19 feet by 28.5 feet) with numerous cabinets and a microwave dish. Elevations depict the 100-foot-tall lattice tower with antennas on top rising to 103 feet. Numerous panel antennas and microwave dishes are located on the tower from 21 feet upwards. A 7.5-foot-tall chain-link fence surrounds the WTF tower and equipment cabinet.

10. The Project Site is accessible via Palo Sola Truck Road from Limekiln Canyon Road to the south. Primary access to the Project Site will be via an entrance/exit on Palo Sola Truck Road.

11. Prior to the Hearing Officer's public hearing on the Project, Regional Planning staff determined that the Project qualified for a Class 1, Existing Facilities, categorical exemption from the California Environmental Quality Act (Public Resources Code section 21000, et seq.) ("CEQA"), the State CEQA Guidelines, and the Environmental Document Reporting Procedures and Guidelines for the County, because the Project involved the continued operation and maintenance of an existing WTF or no expansion of use beyond that which was previously existing.

12. Pursuant to the provisions of sections 22.60.174 and 22.60.175 of the Zoning Code, the community was appropriately notified of the Project's public hearings by mail, newspaper, and property posting.

13. No comments from the public on the Project were received.

14. *To be inserted after the public hearing to reflect hearing proceedings.*

15. The Hearing Officer finds that the Project is consistent with the RL20 land use designation of the General Plan and also meets many of the General Plan's goals and policies pertaining to utility services and emergency communications.

16. The Hearing Officer finds that the Project is consistent with the zoning code requirements. Title 22 of the County Code does not explicitly specify "WTF" as a use. The use most consistent with a WTF specified in the County Code is "radio or television stations and towers". Pursuant to Section 22.20.290 of the County Code, development of radio and television stations and towers is a permitted use of property in Zone A-2, provided that a CUP is first obtained. All zone development standards are met by the Project and no deviations or variances are requested.

17. The Hearing Officer finds that the proposed use with the attached conditions will be consistent with the adopted General Plan because the Project allows for emergency and everyday communication without detracting from the rural nature of the community.

18. The Hearing Officer finds that the proposed use at the site will not adversely affect the health, peace, comfort or welfare of persons residing or working in the surrounding area, will not be materially detrimental to the use, enjoyment or valuation of property of other persons located in the vicinity of the site, and will not jeopardize, endanger or otherwise constitute a menace to the public health, safety or general welfare. Surrounding residential uses are approximately 1.7 miles away and the WTF does not create nuisances nor is it detrimental to others use of their property.

19. The Hearing Officer finds that the proposed site is adequate in size and shape to accommodate the yards, walls, fences, parking and loading facilities, landscaping and other development features prescribed in Title 22, or as is otherwise required in order to integrate said use with the uses in the surrounding area as no deviations or variances from development standards are required, and all requirements are met on-site. The Project Site is over 2,600 acres and can accommodate all necessary requirements.

20. The Hearing Officer finds that the proposed site is adequately served by highways or streets of sufficient width and improved as necessary to carry the kind and quantity of pedestrian, bicycle, and vehicle traffic such use would generate, and by other public or private service facilities as are required. The Project Site is in a rural area and there are not opportunities for routine pedestrian and bicycle trips. While maintenance vehicles will periodically visit the Project Site, there is adequate capacity on local roads to handle them, and there is adequate parking on the Project Site for them.

21. The Hearing Officer finds that to ensure continued compatibility between the Project and the surrounding land uses, it is necessary to limit the CUP to 15 years.

22. The Hearing Officer finds that pursuant to Sections 22.60.174 and 22.60.175 of the County Code, the community was properly notified of the public hearing by mail, newspaper, and property posting. Additionally, the Project was noticed and case materials were available on Regional Planning's website and at libraries located in the vicinity of Oat Mountain community. On March 22, 2016, a total of six Notices of Public Hearing were mailed to all property owners as identified on the County Assessor's record within a 1,000-foot radius from the Project Site, as well as 24 notices to those on the courtesy mailing list for the Newhall Zoned District and to any additional interested parties.

23. The location of the documents and other materials constituting the record of proceedings upon which the Hearing Officer's decision is based in this matter is at the Los Angeles County Department of Regional Planning, 13th Floor, Hall of Records, 320 West Temple Street, Los Angeles, California 90012. The custodian of

such documents and materials shall be the Section Head of the Zoning Permits North Section, Department of Regional Planning.

BASED ON THE FOREGOING, THE HEARING OFFICER CONCLUDES THAT:

A. The proposed use with the attached conditions will be consistent with the adopted General Plan.

B. The proposed use at the site will not adversely affect the health, peace, comfort or welfare of persons residing or working in the surrounding area, will not be materially detrimental to the use, enjoyment or valuation of property of other persons located in the vicinity of the site, and will not jeopardize, endanger or otherwise constitute a menace to the public health, safety or general welfare.

C. The proposed site is adequate in size and shape to accommodate the yards, walls, fences, parking and loading facilities, landscaping and other development features prescribed in Title 22, or as is otherwise required in order to integrate said use with the uses in the surrounding area.

D. The proposed site is adequately served by highways or streets of sufficient width and improved as necessary to carry the kind and quantity of pedestrian, bicycle, and vehicle traffic such use would generate, and by other public or private service facilities as are required.

THEREFORE, THE HEARING OFFICER:

1. Finds that the Project is exempt from the California Environmental Quality Act pursuant to section 15301 of the State CEQA Guidelines (Class 1, Existing Facilities categorical exemption); and

2. Approves Conditional Use Permit No. 201500128, subject to the attached findings and conditions.

ACTION DATE: May 3, 2016

RG:AMC
April 21, 2016

c: Zoning Enforcement, Building and Safety

DRAFT CONDITIONS OF APPROVAL
COUNTY OF LOS ANGELES
PROJECT NO. R2015-03222-(5)
CONDITIONAL USE PERMIT NO. 201500128

PROJECT DESCRIPTION

The project is for the legalization and the continued operation and maintenance of an existing wireless telecommunications facility (WTF) comprised of a 100-foot-tall lattice tower with antennas rising to 103 feet above ground level with numerous panel antennas and microwave dishes, subject to the following conditions of approval:

GENERAL CONDITIONS

1. Unless otherwise apparent from the context, the term "permittee" shall include the applicant, owner of the property, and any other person, corporation, or other entity making use of this grant.

2. This grant shall not be effective for any purpose until the permittee, and the owner of the subject property if other than the permittee, have filed at the office of the Los Angeles County ("County") Department of Regional Planning ("Regional Planning") their affidavit stating that they are aware of and agree to accept all of the conditions of this grant, and that the conditions of the grant have been recorded as required by Condition No. 7, and until all required monies have been paid pursuant to Condition No. 10. Notwithstanding the foregoing, this Condition No. 2 and Conditions No. 4, 5, and 9, shall be effective immediately upon the date of final approval of this grant by the County.

3. Unless otherwise apparent from the context, the term "date of final approval" shall mean the date the County's action becomes effective pursuant to Section 22.60.260 of the County Code.

4. The permittee shall defend, indemnify, and hold harmless the County, its agents, officers, and employees from any claim, action, or proceeding against the County or its agents, officers, or employees to attack, set aside, void, or annul this permit approval, which action is brought within the applicable time period of Government Code Section 65009 or any other applicable limitations period. The County shall promptly notify the permittee of any claim, action, or proceeding and the County shall reasonably cooperate in the defense. If the County fails to promptly notify the permittee of any claim, action, or proceeding, or if the County fails to cooperate reasonably in the defense, the permittee shall not thereafter be responsible to defend, indemnify, or hold harmless the County.

5. In the event that any claim, action, or proceeding as described above is filed against the County, the permittee shall within ten days of the filing make an initial deposit with Regional Planning in the amount of up to $5,000.00, from which actual costs and expenses shall be billed and deducted for the purpose of defraying the costs or expenses involved in Regional Planning's cooperation in the defense,

including but not limited to, depositions, testimony, and other assistance provided to permittee or permittee's counsel.

If during the litigation process, actual costs or expenses incurred reach 80 percent of the amount on deposit, the permittee shall deposit additional funds sufficient to bring the balance up to the amount of $5,000.00. There is no limit to the number of supplemental deposits that may be required prior to completion of the litigation.

At the sole discretion of the permittee, the amount of an initial or any supplemental deposit may exceed the minimum amounts defined herein. Additionally, the cost for collection and duplication of records and other related documents shall be paid by the permittee according to County Code Section 2.170.010.

6. If any material provision of this grant is held or declared to be invalid by a court of competent jurisdiction, the permit shall be void and the privileges granted hereunder shall lapse.

7. Prior to the use of this grant, the permittee, or the owner of the subject property if other than the permittee, shall **record the terms and conditions** of the grant in the office of the County Registrar-Recorder/County Clerk ("Recorder"). In addition, upon any transfer or lease of the property during the term of this grant, the permittee, or the owner of the subject property if other than the permittee, shall promptly provide a copy of the grant and its conditions to the transferee or lessee of the subject property.

8. **This grant shall terminate on May 3, 2031**. Entitlement to use of the property thereafter shall be subject to the regulations then in effect. If the permittee intends to continue operations after such date, whether or not the permittee proposes any modifications to the use at that time, the permittee shall file a new conditional use permit application with Regional Planning, or shall otherwise comply with the applicable requirements at that time. Such application shall be filed at least six (6) months prior to the expiration date of this grant and shall be accompanied by the required fee. In the event that the permittee seeks to discontinue or otherwise change the use, notice is hereby given that the use of such property may require additional or different permits and would be subject to the then-applicable regulations.

9. This grant shall expire unless used within ninety (90) days from the date of final approval of the grant. A single thirty (30) day time extension may be requested in writing and with the payment of the applicable fee prior to such expiration date. For the purposes of this provision, continued operation of the WTF and satisfaction of Condition No. 2 shall be considered use of this grant.

10. The subject property shall be maintained and operated in full compliance with the conditions of this grant and any law, statute, ordinance, or other regulation applicable to any development or activity on the subject property. Failure of the permittee to cease any development or activity not in full compliance shall be a violation of these conditions. Inspections shall be made to ensure compliance with

the conditions of this grant as well as to ensure that any development undertaken on the subject property is in accordance with the approved site plan on file. The permittee shall deposit with the County the sum of **$1,600.00**. The deposit shall be placed in a performance fund, which shall be used exclusively to compensate Regional Planning for all expenses incurred while inspecting the premises to determine the permittee's compliance with the conditions of approval. The fund provides for eight **(8) biennial (one every other year)** inspections. Inspections shall be unannounced.

If additional inspections are required to ensure compliance with the conditions of this grant, or if any inspection discloses that the subject property is being used in violation of any one of the conditions of this grant, the permittee shall be financially responsible and shall reimburse Regional Planning for all additional enforcement efforts necessary to bring the subject property into compliance. The amount charged for additional inspections shall be $200.00 per inspection, or the current recovery cost at the time any additional inspections are required, whichever is greater.

11. Notice is hereby given that any person violating a provision of this grant is guilty of a misdemeanor. Notice is further given that the Regional Planning Commission ("Commission") or a Hearing Officer may, after conducting a public hearing, revoke or modify this grant, if the Commission or Hearing Officer finds that these conditions have been violated or that this grant has been exercised so as to be detrimental to the public's health or safety or so as to be a nuisance, or as otherwise authorized pursuant to Chapter 22.56, Part 13 of the County Code.

12. All development pursuant to this grant must be kept in full compliance with the County Fire Code to the satisfaction of the County Fire Department.

13. All development pursuant to this grant shall conform with the requirements of the County Department of Public Works to the satisfaction of said department.

14. All development pursuant to this grant shall comply with the requirements of Title 22 of the County Code and of the specific zoning of the subject property, unless specifically modified by this grant, as set forth in these conditions, including the approved Exhibit "A," or a revised Exhibit "A" approved by the Director of Regional Planning ("Director").

15. The permittee shall maintain the subject property in a neat and orderly fashion. The permittee shall maintain free of litter all areas of the premises over which the permittee has control.

16. All structures, walls and fences open to public view shall remain free of graffiti or other extraneous markings, drawings, or signage that was not approved by Regional Planning. These shall include any of the above that do not directly relate to the business being operated on the premises or that do not provide pertinent information about said premises. The only exceptions shall be seasonal

decorations or signage provided under the auspices of a civic or non-profit organization.

In the event of graffiti or other extraneous markings occurring, the permittee shall remove or cover said markings, drawings, or signage within 24 hours of such occurrence, weather permitting. Paint utilized in covering such markings shall be of a color that matches, as closely as possible, the color of the adjacent surfaces.

17. The subject property shall be developed and maintained in substantial conformance with the plans marked Exhibit "A." If changes to any of the plans marked Exhibit "A" are required as a result of instruction given at the public hearing, **three (3) copies of** a modified Exhibit "A" shall be submitted to Regional Planning by **July 5, 2016**.

18. In the event that subsequent revisions to the approved Exhibit "A" are submitted, the permittee shall submit **three (3) copies of** the proposed plans to the Director for review and approval. All revised plans must substantially conform to the originally approved Exhibit "A". All revised plans must be accompanied by the written authorization of the property owner(s) and applicable fee for such revision.

PERMIT-SPECIFIC CONDITIONS - CONDITIONAL USE PERMIT (WTF)

19. The facility shall be operated in accordance with regulations of the State Public Utilities Commission.

20. Upon completion of construction of the facility, the permittee shall provide upon request to the Zoning Enforcement Section of Regional Planning written certification that the radio frequency electromagnetic emissions levels comply with adopted Federal Communications Commission (FCC) limitations for general population/uncontrolled exposure to such emissions when operating at full strength and capacity. If other WTFs are located on the subject property or on adjacent parcels, the aforementioned report shall include the radio frequency electromagnetic emissions of said WTFs.

21. Insofar as is feasible, the permittee shall cooperate with any subsequent applicants for wireless communications facilities in the vicinity with regard to possible co-location. Such subsequent applicants will be subject to the regulations in effect at that time.

22. Any proposed WTF that will be co-locating on the proposed facility will be required to provide upon request the same written verification of emissions and include the cumulative radiation and emissions of all such facilities to the Zoning Enforcement Section of Regional Planning.

23. All structures shall conform to the requirements of the Division of Building and Safety of Public Works or other appropriate agency and obtain an encroachment permit if deemed necessary.

24. If any external lighting is proposed, including security lighting, it shall be on motion sensors, be of low-intensity, fully shielded and directed away from any adjacent residences. Pole-mounted lighting is prohibited on the leasehold unless the facility is disguised as a light pole. Antenna lighting is prohibited. Beacon lights are prohibited unless required by the FAA.

25. Placement and height of all pole-mounted equipment shall be in substantial conformance with that shown on said Exhibit "A". The facility shall be maintained as depicted in the photographs and photosimulations presented at the public hearing.

26. One parking space for maintenance vehicles shall be provided. The space does not have to be dedicated solely to maintenance vehicles. Maintenance vehicles shall not block access to driveways or garages.

27. The maximum height of the facility shall not exceed 103 feet above finished grade.

28. The permittee shall maintain current contact information with the Zoning Enforcement Section of Regional Planning.

29. The finished surface of the facility shall not be glossy or reflective in nature unless such finish is necessary to blend into existing design features. The finish shall be graffiti-resistant.

30. The facility shall be maintained in good condition and repair, and shall remain free of: general dirt and grease; chipped, faded, peeling or cracked paint; trash, debris, litter, graffiti and other forms of vandalism; cracks, dents, blemishes and discolorations; visible rust or corrosion on any unpainted metal areas. Any damage from any cause shall be repaired by the permittee within 30 days of notice. Weathered, faded or missing parts/materials used to disguise/camouflage the facility shall be maintained and/or replaced by the permittee within 30 days of notice. Provided landscaping shall be maintained at all times and shall be promptly replaced if needed.

31. Upon request, the permittee shall submit annual reports to the Zoning Enforcement Section of Regional Planning to show compliance with the maintenance and removal conditions.

32. The project number, conditional use permit number and lease holder contact information shall be prominently displayed on the facility where it can be easily viewed at or near eye level.

33. The facility shall be secured by fencing, gates and/or locks.

34. Upon termination of this grant or after the construction of this facility, if the facility has ceased to operate; the permittee shall remove such facility and clear the site of all equipment within six months of the cease of operation date. The permittee shall

restore the site as nearly as practicable to the condition prior to the installation of the subject facility.

PROJECT SITE-SPECIFIC CONDITIONS

35. This grant shall authorize the legal establishment and the continued operation and maintenance of an existing lattice tower WTF comprised of numerous antennas and equipment on a property containing four other WTFs.

Los Angeles County
Department of Regional Planning

Planning for the Challenges Ahead

CONDITIONAL USE PERMIT BURDEN OF PROOF

Pursuant to Zoning Code Section 22.56.040, the applicant shall substantiate the following:

(Do not repeat the statement or provide Yes/No responses. If necessary, attach additional pages.)

A. That the requested use at the location will not:
1. Adversely affect the health, peace, comfort or welfare of persons residing or working in the surrounding area, or
2. Be materially detrimental to the use, enjoyment or valuation of property of other persons located in the vicinity of the site, or
3. Jeopardize, endanger or otherwise constitute a menace to the public health, safety or general welfare.

Crown Castle is applying for a Conditional Use Permit for an existing wireless facility. The CUP will not adversely affect people or property in the surounding area. The site is already existing and has not negatively impacted the surrounding area. The site operates well within FCC guidelines and does not generate hazardous materials, waste, odor, light or glare.

B. That the proposed site is adequate in size and shape to accommodate the yards, walls, fences, parking and loading facilities, landscaping and other development features prescribed in this Title 22, or as is otherwise required in order to integrate said use with the uses in the surrounding area.

The existing site is adequate in size and shape to accommodate all of the development features prescribed in Title 22. The existing use does not impact any required yard or setbacks, parking or loading facilities, fencing or lanscaping. The use is enclosed and secured inside fencing. The facility has been appropriately designed and approved to integrate the use with the surrounding area. No new equipment is being proposed, thus the existing wireless facility will remain unchanged.

C. That the proposed site is adequately served:
1. By highways or streets of sufficient width, and improved as necessary to carry the kind and quantity of traffic such use would generate, and
2. By other public or private service facilities as are required.

The existing use is an unmanned wireless telecommunications facility. No additional traffic has been generated by this site due to maintenance visits, nor has it caused any circulation impacts to the surrounding area.

Crown Castle - Oat Mountain (870676)

Palo Sola Truck Road, Chatsworth, CA 91313

Crown Castle - Oat Mountain (870676)

Location 1 - Palo Sola Truck Road, Chatsworth, CA 91313

Crown Castle - Oat Mountain (870676)

Location 1 - Palo Sola Truck Road, Chatsworth, CA 91313

Crown Castle - Oat Mountain (870676)

Location 2 - Palo Sola Truck Road, Chatsworth, CA 91313

Crown Castle - Oat Mountain (870676)

Location 2 - Palo Sola Truck Road, Chatsworth, CA 91313

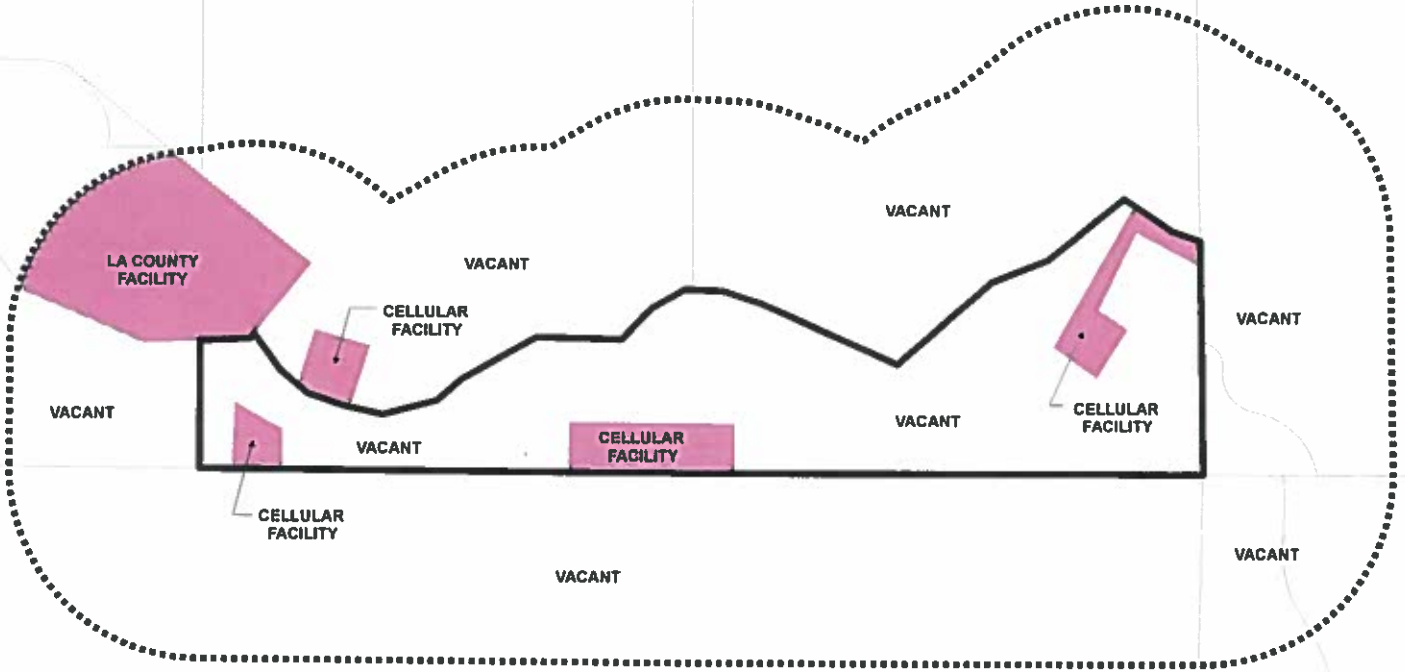
Crown Castle - Oat Mountain (870676)

Location 3 - Palo Sola Truck Road, Chatsworth, CA 91313

Crown Castle - Oat Mountain (870676)

Location 4 - Palo Sola Truck Road, Chatsworth, CA 91313

LAND USE



LAND USE
500 FOOT RADIUS MAP

Proj. R2015-03222 (5)
RCUP 2015-00128

Legend

- PUBLIC UTILITY
- VACANT

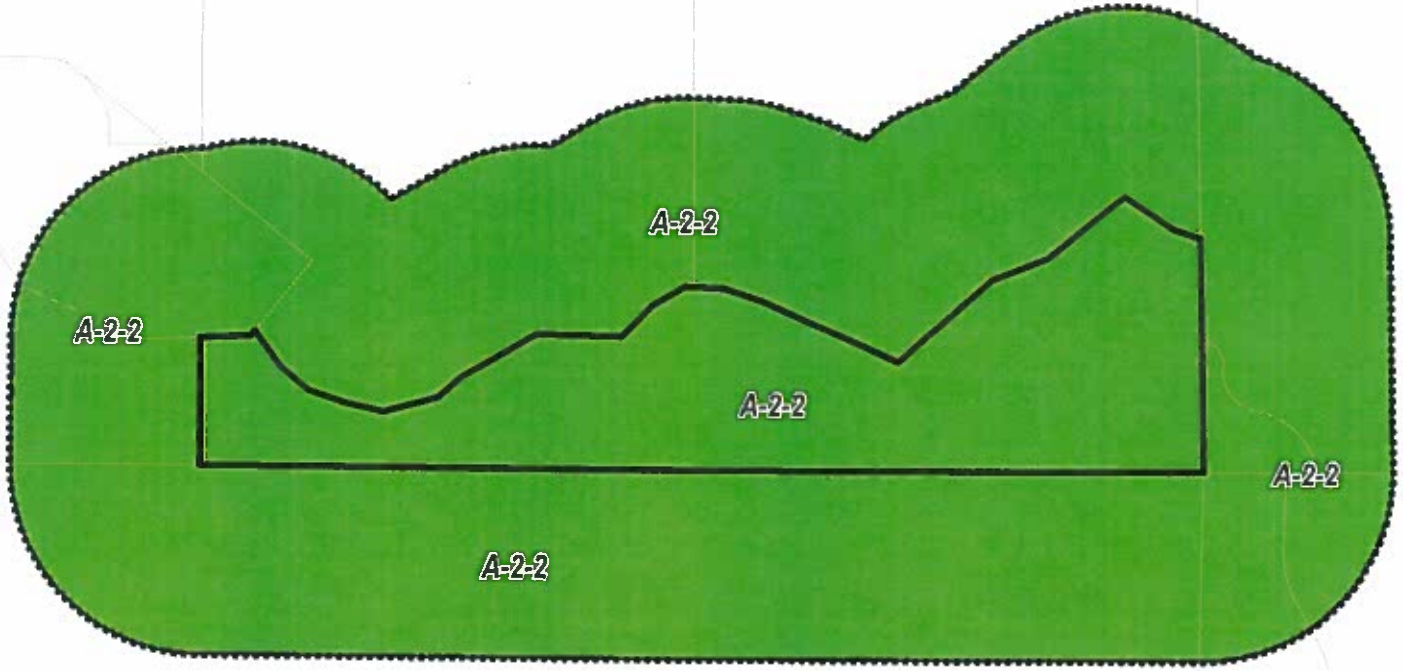
VICINITY MAP

0 75 150 300 450 600 Feet

N

LOS ANGELES COUNTY
Department of Regional Planning
320 W. Temple St.
Los Angeles, CA 90012

ZONING



ZONING
500 FOOT RADIUS MAP

Proj. R2015-03222 (5)
RCUP 2015-00128

Legend

A-2 - Heavy Agricultural

VICINITY MAP

0 75 150 300 450 600 Feet

N

LOS ANGELES COUNTY
Department of Regional Planning
320 W. Temple St.
Los Angeles, CA 90012

TelePacific COMMUNICATIONS

OAT MOUNTAIN
PALO SOLA TRUCK ROAD, CHATSWORTH, CA 91313

VICINITY MAP

START AT 151 KALMUS DRIVE, COSTA MESA, CA 92626

GET ON CA-73 N FROM RED HILL AVE AND BRISTOL ST
HEAD NORTH TOWARD KALMUS DR
TURN RIGHT ONTO KALMUS DR
TURN RIGHT ONTO RED HILL AVE
TURN LEFT ONTO BRISTOL ST
TURN LEFT ONTO CAMPUS DR
TURN LEFT ONTO BRISTOL ST N
TAKE THE CA 73 N RAMP ON THE LEFT TO CALIFORNIA 55/INTERSTATE 405
FOLLOW I-405 N AND CA-118 W TO BROWNS CANYON RD IN LOS ANGELES
TAKE THE DE SOTO AVE EXIT FROM CA-118 W
CONTINUE ON BROWNS CANYON RD. DRIVE TO PALO SOLA TRUCK RD
TURN RIGHT ONTO BROWNS CANYON RD
CONTINUE ONTO PALO SOLA TRUCK RD
DESTINATION WILL BE ON THE RIGHT

SITE DIRECTIONS

PROJECT DESCRIPTION:

APPLICATION FOR CONDITIONAL USE PERMIT FOR EXISTING 100-FOOT TALL LATTICE TOWER AND ASSOCIATED EQUIPMENT SHELTER.

PROJECT DESCRIPTION

PROPERTY OWNER

OWNER:	PACIFIC LIGHTING SERVICE, CO. C/O CROWN CASTLE INC. 38 EXECUTIVE PARK, SUITE 310 IRVINE, CA 92614
CONTACT:	NICHOLAS BURKE
DIRECT PHONE: EMAIL:	(909) 930-4349 NICHOLAS.BURKE@CROWNCASTLE.COM

PARCEL INFORMATION:

A.P.N.:	2826-017-802
OCCUPANCY:	U
CONSTRUCTION TYPE:	V-B
CURRENT ZONING:	A-2-2
ACCESSIBILITY REQ'D:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.

PROJECT SUMMARY

ARCHITECT:

DCI PACIFIC
32 EXECUTIVE PARK, SUITE 110
IRVINE, CA 92614
CONTACT: D.K. DO
PHONE: (949) 475-1000
E-MAIL: DK@DCIPACIFIC.COM
FAX: (949) 475-1001

APPLICANT REPRESENTATIVE:

AREEJ RAJPUT
CORE DEVELOPMENT SERVICES
2749 SATURN ST
BREA, CA 92821
PHONE: (714) 729-8404
(714) 292-8391
EMAIL: ARAJPUT@COPE.US.COM

PROJECT TEAM

POWER:

COMPANY: SCE
PHONE: 1-800-990-7788

TELCO:

COMPANY: AT&T
PHONE: 1-800-288-2020

UTILITY PROVIDERS

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS 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.

1. 2013 CALIFORNIA ADMINISTRATIVE CODE (CAC)
2. 2013 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1, AND 2
(2012 EDITION INTERNATIONAL BUILDING CODE WITH 2013 CALIFORNIA AMENDMENTS)
3. 2013 CALIFORNIA ELECTRICAL CODE
(2011 EDITION NATIONAL ELECTRICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)
4. 2013 CALIFORNIA MECHANICAL CODE (CMC)
(2012 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)
5. 2013 CALIFORNIA ENERGY CODE
(2013 EDITION CALIFORNIA ENERGY COMMISSION BUILDING ENERGY EFFICIENCY STANDARDS)
6. 2013 CALIFORNIA FIRE CODE (CFC)
(2012 EDITION OF INTERNATIONAL FIRE CODE WITH 2010 CALIFORNIA AMENDMENTS)
7. 2013 CALIFORNIA GREEN CODE
8. 2013 CALIFORNIA REFERENCES STANDARDS CODE
9. APPLICABLE LOCAL CODES

CODE COMPLIANCE

SHEET	DESCRIPTION	ISSUE LEVEL
T1	TITLE SHEET	--
A1	SITE PLAN	--
A2	ROOF PLAN & ANTENNA LAYOUT PLAN	--
A3	NORTH AND SOUTH ELEVATIONS	--
A4	EAST AND WEST ELEVATIONS	--
A5	COMMSCOPE VHLP4-18 SPECIFICATIONS	--
A6	COMMSCOPE VHLP2-23 SPECIFICATIONS	--
A7	COMMSCOPE VHLP2-18 SPECIFICATIONS	--
A8	ARCCELERA ANTENNA SPECIFICATIONS	--
A9	HUGHES ANTENNA SPECIFICATIONS	--
A10	MTI MT-463013 ANTENNA AND RADWIN MBS 5200 SPECIFICATIONS	--
A11	RFS ANTENNA SPECIFICATIONS	--
12	SHEETS TOTAL	

ISSUED FOR: ZONING
JURISDICTION: LOS ANGELES COUNTY

SHEET INDEX

DO NOT SCALE DRAWINGS

GENERAL CONTRACTOR NOTES

DCI PACIFIC
A|E|C WORKS
32 EXECUTIVE PARK | SUITE 110
IRVINE | CA 92614

TelePacific COMMUNICATIONS

VeloTera

PROJECT IDENTIFICATION
OAT MOUNTAIN
PALO SOLA TRUCK ROAD,
CHATSWORTH, CA 91313

CURRENT ISSUE DATE:
08/24/15

ISSUED FOR:
ZONING

APPROVALS:

APPROVED BY:	INITIALS	DATE:
LANDLORD		
LEASING		
ZONING		
RF		
CM		

DRAWN BY:	CHK	APV:
IP	DCP	DKD

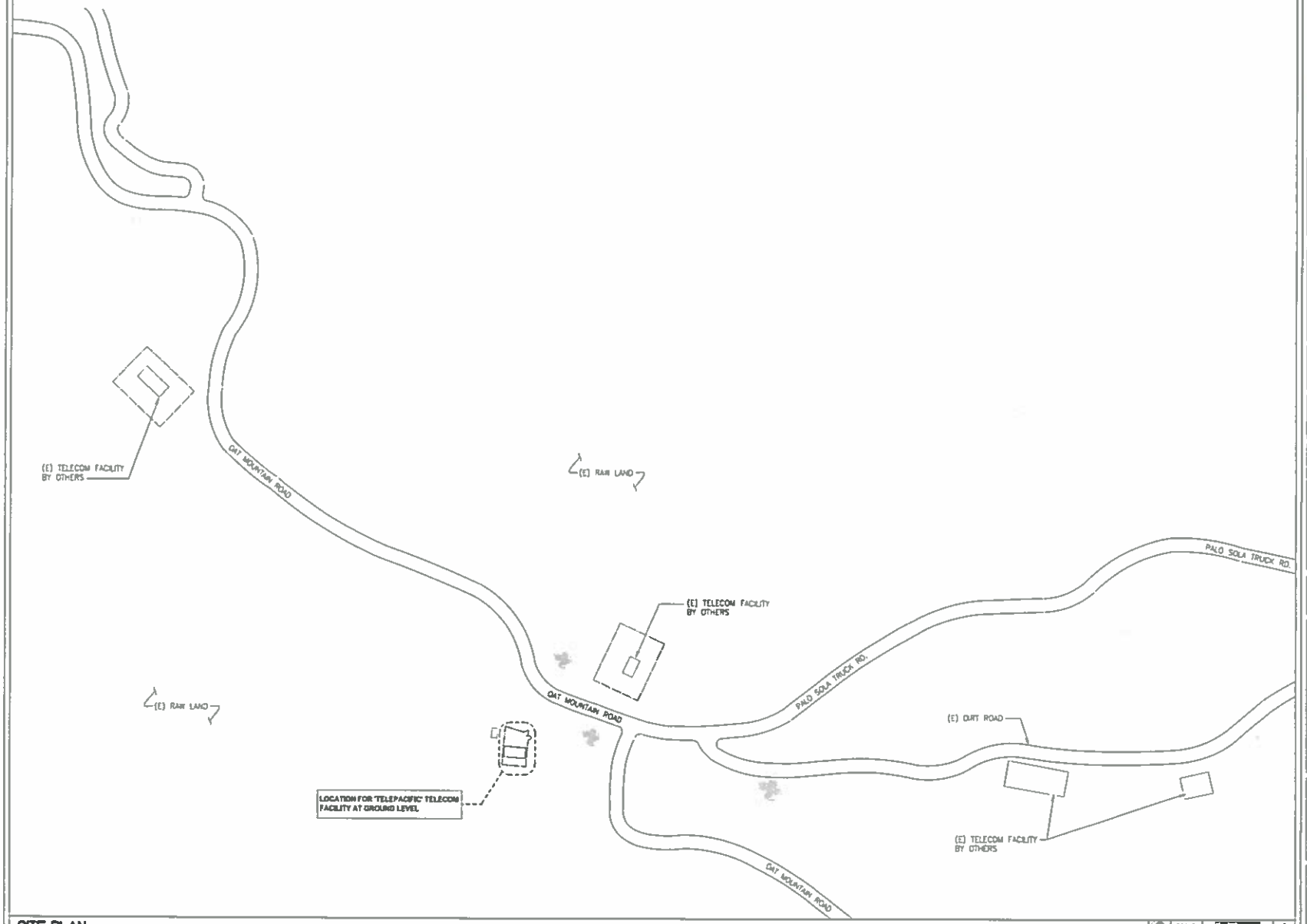
ISSUE STATUS:

△	DATE:	DESCRIPTION:	BY
	05/30/14	90% ZD	IP
	07/10/14	100% ZD	VT
	07/30/15	UPDATED ZD	VT
	08/24/15	UPDATED PROJECT DESCRIPTION	VT

SHEET TITLE:
TITLE SHEET

SHEET NUMBER: **T1**
ISSUE LEVEL:
OAT MOUNTAIN

NOTE:
NO SURVEY DRAWINGS PROVIDED



SITE PLAN

1

DCI PACIFIC
A|E|C WORKS

TelePacific COMMUNICATIONS

VeloTera

PROJECT IDENTIFICATION
OAT MOUNTAIN

PALO SOLA TRUCK ROAD,
CHATSWORTH, CA 91311

CURRENT ISSUE DATE
08/24/15

ISSUED FOR
ZONING

APPROVALS:

APPROVED BY:	INITIALS:	DATE:
LANDLORD		
LEASING		
ZONING		
RF		
CM		

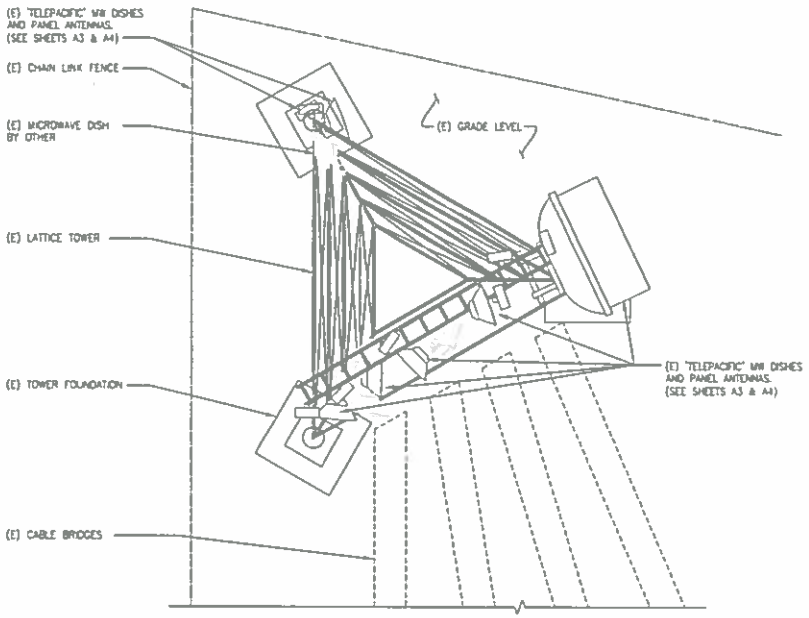
DRAWN BY	CHK	APV.
IP	BCK	DFD

ISSUE STATUS:

△	DATE	DESCRIPTION	BY
	05/30/14	80% ZD	IP
	07/10/14	100% ZD	VT
	07/30/15	UPDATED ZD	VT
	08/24/15	UPDATED PROJECT DESCRIPTION	VT

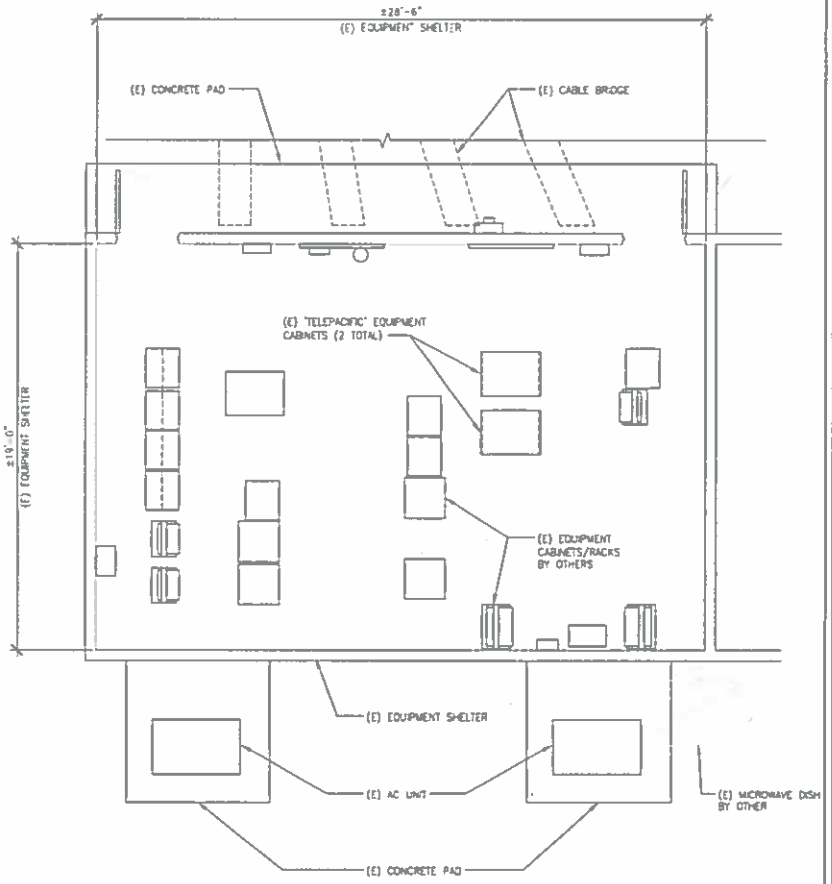
SHEET TITLE:
SITE PLAN

SHEET NUMBER	ISSUE LEVEL:
A1	OAT MOUNTAIN



ANTENNA LAYOUT PLAN

2



EQUIPMENT LAYOUT PLAN

1

DCI PACIFIC
A|E|C WORKS

TelePacific COMMUNICATIONS

VeloTera

PROJECT IDENTIFICATION
OAT MOUNTAIN

PALO SOLA TRUCK ROAD, CHATSWORTH, CA 91313

CURRENT ISSUE DATE
08/24/15

ISSUED FOR
ZONING

APPROVALS:

APPROVED BY:	INITIALS:	DATE:
LANDLORD		
LEASING		
ZONING		
RF		
CM		

DRAWN BY:	CHK:	APV:
IP	BCK	DVD

ISSUE STATUS:

△	DATE:	DESCRIPTION:	BY:
	05/30/14	90% ZD	IP
	07/10/14	100% ZD	IP
	07/30/15	UPDATED ZD	IP
	08/24/15	UPDATED PROJECT DESCRIPTION	IP

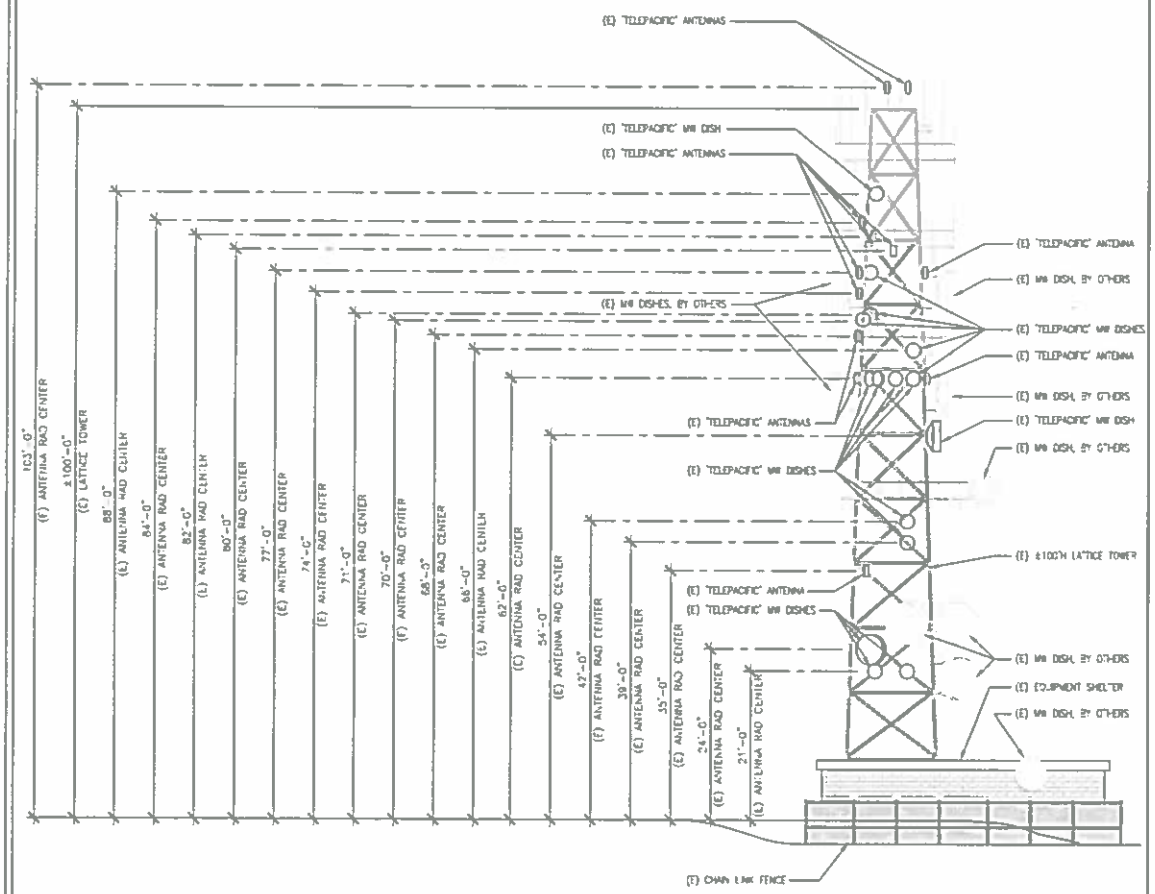
SHEET TITLE:
EQUIPMENT & ANTENNA LAYOUT PLAN

SHEET NUMBER: **A2**

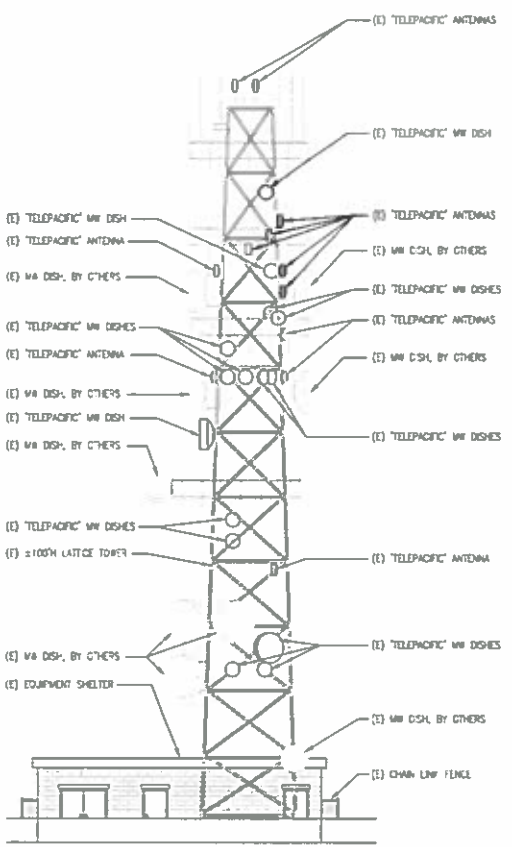
ISSUE LEVEL:

OAT MOUNTAIN

TELEPACIFIC ANTENNAS ON (E) 100' LATTICE TOWER:
- TWO, 12'ø MW DISH
- TWELVE, 24'ø MW DISH
- TWO, 46'ø MW DISH
- TWELVE, 20" & 27" ANTENNAS



SOUTH ELEVATION — SCALE: 1/32"=1'-0" — 2



NORTH ELEVATION — SCALE: 1/32"=1'-0" — 1

DCI PACIFIC
ARCHITECTURE | ENGINEERING | CONSULTING
28 CHENEY Drive | SUITE 110
Chico | CA 95926

TelePacific COMMUNICATIONS

VeloTera

PROJECT IDENTIFICATION
OAT MOUNTAIN
PAUL SOLA TRUCK ROAD
CHESTERTOWN, CA 96113

CURRENT ISSUE DATE
08/24/15

ISSUED FOR
ZONING

APPROVALS:

APPROVED BY:	INITIALS:	DATE:
LANDLORD		
LEASING		
ZONING		
RF		
CM		

DRAWN BY	CHK:	APV:
IP	BDM	DKD

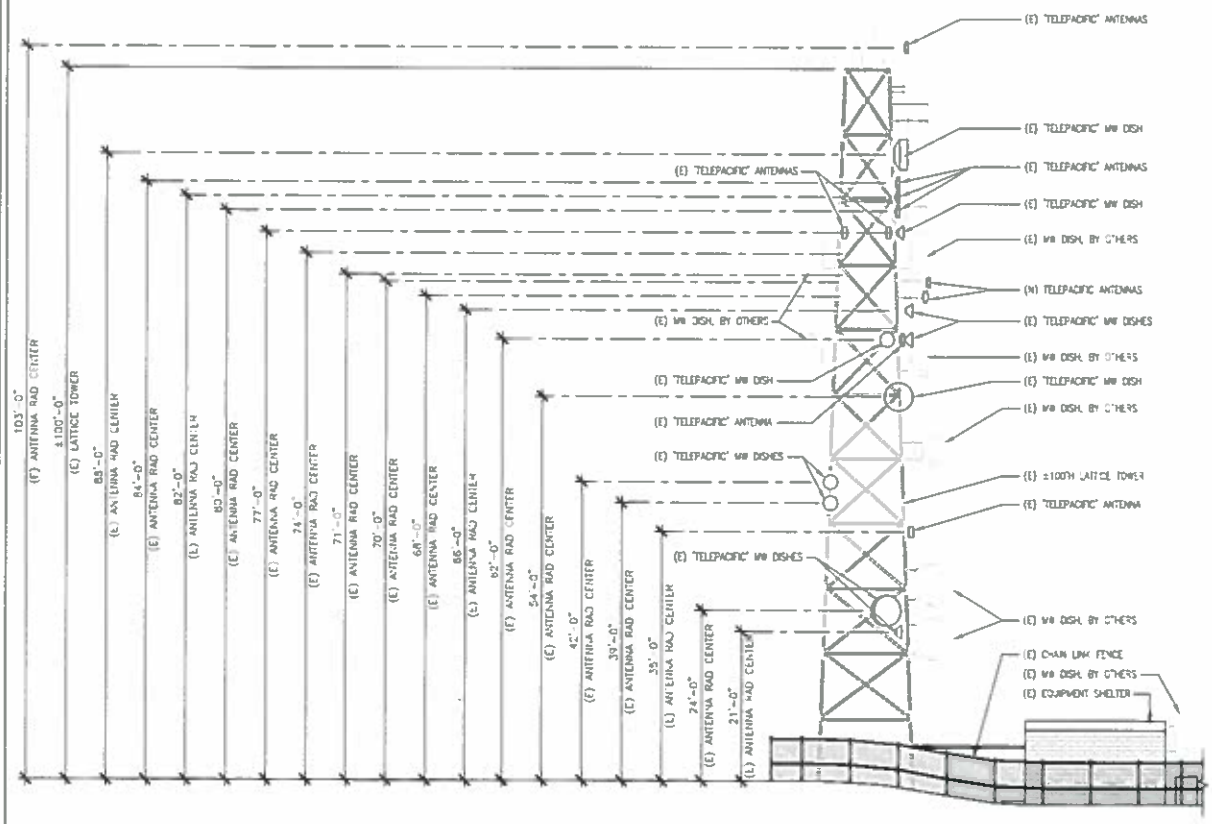
ISSUE STATUS:

△	DATE:	DESCRIPTION	BY
	05/30/14	90% ZD	IP
	07/10/14	100% ZD	VT
	07/30/15	UPDATED ZD	VT
	08/24/15	UPDATED PROJECT DESCRIPTION	VT

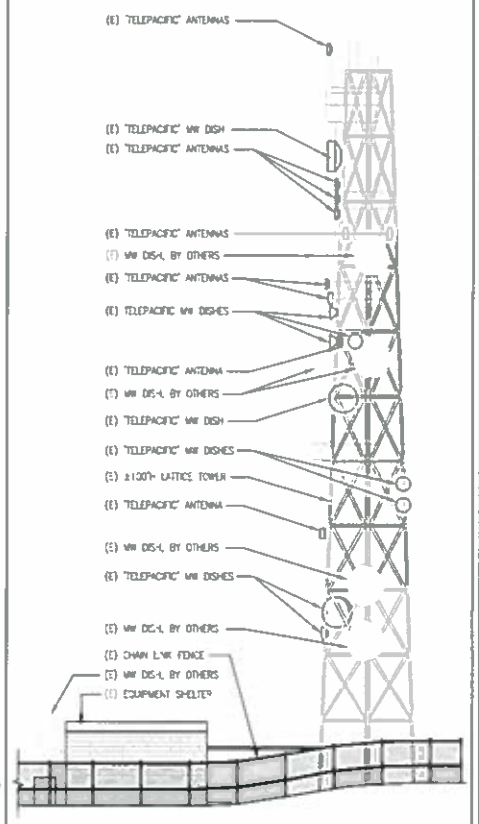
SHEET TITLE:
NORTH AND SOUTH ELEVATIONS

SHEET NUMBER: **A3**
ISSUE / DWG.: OAT MOUNTAIN

"TELEPACIFIC" ANTENNAS ON (E) 100' LATTICE TOWER.
- TWO, 12'ø MW DISH
- TWELVE, 24'ø MW DISH
- TWO, 48'ø MW DISH
- TWELVE, 20" & 27" ANTENNAS



WEST ELEVATION — SCALE: 1/8" = 1'-0" — 2



EAST ELEVATION — SCALE: 1/8" = 1'-0" — 1

DCI PACIFIC
A|E|C WORKS

TelePacific COMMUNICATIONS

VeloTera

PROJECT IDENTIFICATION
OAT MOUNTAIN
9430 SOLA TRUCK ROAD, CHATSWORTH, CA 91311

CURRENT ISSUE DATE
08/24/15

ISSUED FOR:
ZONING

APPROVALS:

APPROVED BY:	INITIALS:	DATE:
LANDLORD		
LEASING		
ZONING		
RF		
CM		

DRAWN BY:	CHK:	APP:
JP	BCW	DWD

ISSUE STATUS:

△	DATE:	DESCRIPTION:	BY:
	05/30/14	90% ZD	JP
	07/10/14	100% ZD	JP
	07/30/15	UPDATED ZD	JP
	08/24/15	UPDATED PROJECT DESCRIPTION	JP

SHEET TITLE:
EAST AND WEST ELEVATIONS

SHEET NUMBER: **A4**
ISSUE LEVEL: OAT MOUNTAIN

Product Specifications

ANDREW

VHLP4-18 (2x14)

4 ft. (1.2 m) High Performance Low Profile Antenna, single polarized, 17.7 - 19.7 GHz, UBR Flange, white antenna, white radome

CHARACTERISTICS

General Specifications

Antenna Type	VHLP - VHLP4-18 (2x14) High Performance Low Profile Antenna, single polarized
Diameter, nominal	1.2 m | 4 ft
Antenna Size/U	10.99/U
Polarization	Single
Reflector Construction	One piece reflector
Antenna Color	white
Radome Color	white
Radome Material Description	Polymer
Flash Included	no
Packing	Standard pack

Electrical Specifications

Operating Frequency Band	17.700 - 19.700 GHz
Gain, Top Band	45.1 dBi
Gain, Mid Band	44.7 dBi
Gain, Low Band	44.2 dBi
Front-to-Back Ratio	72 dB
Cross Polarization Discrimination (XPD)	30 dB
Beamwidth, Vertical	0.9°
VSWR	1.30
Return Loss	17.7 dB
Radiation Pattern Envelope Reference (RPE)	Yes
Electrical Compliance	US FCC Part 101A | Brazil Anatel Class 2 | Canada RSS 317 Part A | ETSI 302 217 Class 3

Product Specifications

ANDREW

VHLP4-18 (2x14)

Mechanical Specifications

Wind Velocity, Operational	113 km/h | 70 mph
Wind Velocity, Survival Rating	249 km/h | 155 mph
Fine Azimuth Adjustment	±12°
Fine Elevation Adjustment	±15°
Mounting Pipe Diameter	115 mm | 4.5 in
Side Struts, Included	1 set/pack
Side Struts, Optional	1 set/pack
Net Weight	46 kg | 101 lb

Wind Forces At Wind Velocity Survival Rating

Axial Force (FA)	3163 N | 711 lbf
Side Force (FS)	1569 N | 352 lbf
Twisting Moment (MT)	1570 N-m
Zero Ice	170 mm | 7 in
1/2" (12 mm) Radial Ice	241 mm | 10 in
1" (25 mm) Radial Ice	413 kg | 911 lb

Wind Forces At Wind Velocity Survival Rating Image

Packed Dimensions

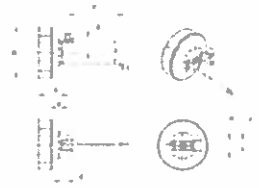
Gross Weight, Packed Antenna	102.0 kg | 224.9 lb
Length	1371.6 mm | 54.0 in

Product Specifications

ANDREW

VHLP4-18 (2x14)

Antenna Dimensions And Mounting Information



A	1219.2 mm	E	1168.4 mm
B	457.2 mm	F	876.3 mm
C	749.3 mm	G	482.6 mm
D	381.0 mm	J	381.0 mm
	762.0 mm		

Footnotes

Axial Force (FA): Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximum loads do not occur simultaneously. All forces are referenced to the mounting pipe.

Cross Polarization Discrimination (XPD): The difference between the peak of the co-polarized main beam and the maximum cross-polarized signal over an angle twice the 3 dB beamwidth of the co-polarized main beam.

Front-to-Back Ratio: Denotes the power level observed to the rear beam at 180° ± 40° across the band. Production antennas do not exceed stated values by more than 2 dB unless stated otherwise.

Gain, Mid Band: For a given frequency band, gain is inherently a function of antenna size. The gain of Andrew antennas is determined by either gain comparison or by computer integration of the measured antenna patterns.

Product Specifications

ANDREW

VHLP4-18 (2x14)

Operating Frequency Band: Bands correspond with ECC18 recommendations to maximize allocations used throughout the world. Other ranges can be accommodated on special order.

Packing: Andrew standard packing is suitable for export. Antennas are shipped as standard in strong reinforced cardboard or wirebound crates (dependent on product). For your convenience, Andrew offers Power Ship export packing options.

Radiation Pattern Envelope Reference (RPE): Radiation patterns determine an antenna's ability to discriminate against unwanted signals under conditions of zero congestion. Radiation patterns are dependent on antenna model, size, and frequency.

Return Loss: The figure to the right indicates the proportion of radio waves radiated upon the antenna that are rejected as a result of those that are accepted.

Side Force (FS): Maximum dual forces exerted on adjacent structures by side struts as a result of a 200 km/h (125 mph) wind from the most critical direction and azimuth angle permitted. The forces are a component of, but in addition to, the maximum forces specified above.

Twisting Moment (MT): Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified do not occur simultaneously. All forces are referenced to the mounting pipe.

VSWR: Maximum, in the guaranteed Peak Voltage Standing Wave Ratio within the operating band.

Wind Velocity, Operational: The wind speed where the antenna deflection is equal to but not greater than 0.1 degrees.

Wind Velocity, Survival Rating: Indicates antennas, including mounts and struts, where applicable, will not fail and the antenna is considered as specified.

DCI PACIFIC
A|E|C WORKS

TelePacific COMMUNICATIONS

VeloTera SERVICES

PROJECT IDENTIFICATION
OAT MOUNTAIN
PALO SOLA TRUCK ROAD
CHATSWORTH, CA 91311

CURRENT ISSUE DATE
08/24/15

ISSUED FOR
ZONING

APPROVALS:

APPROVED BY:	INITIALS:	DATE:
LANDLORD		
LEASING		
ZONING		
RF		
CM		

DRAWN BY	CHK	APV
JP	BDH	DMD

ISSUE STATUS:

△	DATE	DESCRIPTION	BY
	05/30/14	BDH ZD	JP
	07/08/14	100% ZD	JP
	07/30/15	UPDATED ZD	JP
	08/24/15	UPDATED PROJECT DESCRIPTION	JP

SHEET TITLE:
COMMSCOPE VHLP4-18 SPECIFICATIONS

SHEET NUMBER: A5

ISSUE LEVEL:

OAT MOUNTAIN

Product Specifications

ANDREW
A CommScope Company

VHLP2-23 V2/H-B

6 ft (1.8 m) Ultralink High Performance Low Profile Antenna, single polarized, 21.200-21.600 GHz, US 5GHz U-NII band, white radome, polymer white radome without flash, standard pack, one piece reflector

- TeleLine Vision™ VHLP2 and VHLPX2 antennas will be available from Andrew manufacturing plants globally in the coming weeks

CHARACTERISTICS

General Specifications

Antenna Input	UG-595/U-M adapter
Packing	Compact pack
Radome Color	White
Radome Material	Polymer
Reflector Construction	One piece reflector
Antenna Color	White
Antenna Type	VHLP - Ultralink High Performance Low Profile Antenna, single polarized
Diameter/Diameter	6 ft / 1.8 m
Flash Included	Yes
Polarization	Single

Electrical Specifications

Beamwidth, Horizontal	1.3°
Beamwidth, Vertical	1.3°
Cross Polarization Discrimination (XPD)	30 dB
Electrical Compliance	Brazil Anatel Class 2 ; Canada SRSP-310.8 Part A ; ETSI 302 217 Class 3 ; US FCC Part 101A
Front to Back Ratio	65 dB
Gain, Low Band	43.0 dBi
Gain, Mid Band	43.5 dBi
Gain, Top Band	44.0 dBi
Operating Frequency Band	21.200 - 23.600 GHz
Radiation Pattern Envelope Reference (RPE)	72050
Return Loss	17.7 dB

Product Specifications

ANDREW
A CommScope Company

VHLP2-23 V2/H-B

Mechanical Specifications

Pole Diameter Accepted	4.5"
Pole Elevation Adjustment	4.5°
Mounting Pipe Diameter	4.5 cm - 11.5 cm [1.8 in - 4.5 in]
Net Weight	41 kg [91 lb]
3-dB Struts, Included	6
3-dB Struts, Optional	6
Wind Velocity, Operational	180 km/h [112 mph]
Wind Velocity, Survival Rating	250 km/h [155 mph]

Wind Forces At Wind Velocity Survival Rating

Axial Force (FA)	1272 N [286 lbf]
Side Force (FS)	630 N [142 lbf]
Twisting Moment (MT)	673 N-m
Weight with 1/2 in (12 mm) Radial Ice	47 kg [97 lb]
Zero with 1/2 in (12 mm) Radial Ice	154 mph [8.96]
Zero without Ice	157 mm [6.18]

Product Specifications

ANDREW
A CommScope Company

VHLP2-23 V2/H-B

Wind Forces At Wind Velocity Survival Rating Image

Packed Dimensions

Gross Weight, Packed Antenna	48.4 kg [75.7 lb]
Height	730.0 mm [28.8 in]
Length	730.0 mm [27.8 in]
Volume	0.1 m³
Width	240.0 mm [27.8 in]

Product Specifications

ANDREW
A CommScope Company

VHLP2-23 V2/H-B

Antenna Dimensions And Mounting Information

Dimensions in Inches (mm)

Antenna Size, B (in)	A	B	C	D
2 (0.6)	25.9 (658)	11.6 (293)	10.7 (258)	8.4 (167)

Footnotes

Axial Force (FA)	Maximum force exerted on a supporting structure as a result of wind from the most critical direction for the antenna. The antenna may simultaneously experience wind loads from other directions. All forces are represented in the mounting pole.
Cross Polarization Discrimination (XPD)	The difference between the peak of the co-polarized main beam and the maximum cross-polarized signal over the entire 3 dB beamwidth of the co-polarized main beam.
Front to Back Ratio	Includes typical rear lobes referred to the main beam, at 180° ±45° across the band. Production antennas do not exceed listed values by more than 2 dB within stated beamwidth.
Gain, Mid Band	For a given frequency band, gain is generally a function of antenna size. The gain of smaller antennas is determined by other gain by comparison or by computer using sizes of the measured antenna's pattern.
Operating Frequency Band	Some antennas with OC18 radom manufactured or removed after assembly and therefore the exact. Other ranges can be accommodated on special order.
Packing	Andrew standard packing is suitable for transit. A storage are designed to withstand multiple re-shipments over several years (dependent on product). For your convenience, Andrew offers heavy duty export packing.

COMMSCOPE VHLP2-23 SPECIFICATIONS

SCALE: N.T.S. 1

DCI PACIFIC
ARCHITECTURE | ENGINEERING | CONSULTING
38 ENDEAVOR #200 | SUITE 110
IRVINE | CA 92614

TelePacific COMMUNICATIONS

VeloTera

PROJECT IDENTIFICATION
OAT MOUNTAIN
PALO SOLA TRUCK ROAD
CHATSWORTH, CA 91311

CURRENT ISSUE DATE
08/24/15

ISSUED FOR
ZONING

APPROVALS:

APPROVED BY:	INITIALS:	DATE:
LANDLORD		
LEASING		
ZONING		
RF		
CM		

DRAWN BY	CHK	APV
IP	BCK	DMS

ISSUE STATUS:

△	DATE:	DESCRIPTION:	BY
	06/30/14	60% ZD	IP
	07/10, 14	100% ZD	IP
	07/30/15	UPDATED ZD	IP
	08/24/15	UPDATED PROJECT DESCRIPTION	IP

SHEET TITLE:
SOMMSCOPE VHLP2-23 SPECIFICATIONS

SHEET NUMBER: A6

ISSUE LEVEL:

OAT MOUNTAIN

Product Specifications

COMMSCOPE

VHLP2-18-2WH/B

0.6 m | 2 ft VelaLine® High Performance Low Profile Antenna, single-polarized, 17.700–19.700 GHz, PBR220, white antenna, polymer white radome without flash, standard pack—one-piece reflector

- VelaLine Vision™ VHLP2 and VHLP2 antennas will be available from Andrew manufacturing plants globally in the coming weeks

General Specifications

Packing	Compact pack
Radome Color	White
Radome Material	Polymer
Reflector Construction	One-piece reflector
Antenna Line A	PBR220
Antenna Color	White
Antenna Type	VHLP (VelaLine® High Performance Low Profile Antenna) single polarized
Diameter, nominal	0.6 m | 2 ft
Flash Included	No
Polarization	Single

Electrical Specifications

Beamwidth, Horizontal	2.1 °
Beamwidth, Vertical	2.1 °
Cross Polarization Discrimination (XPD)	30 dB
Electrical Compliance	Brasil Anatel Class 2 | Canada SASP 117 8 Part A | ETSI 302 217 Class 3 | US FCC Part 101A
Front to Back Ratio	66 dB
Gain, Low Band	38.4 dBi
Gain, Mid Band	38.9 dBi
Gain, Top Band	39.1 dBi
Operating Frequency Band	17.700 – 19.700 GHz
Radiation Pattern Envelope Reference (RPE)	72048
Return Loss	17.7 dB
VSWR	1.30

Mechanical Specifications

Fine Azimuth Adjustment	±15°
Fine Elevation Adjustment	±15°
Mounting Pipe Diameter	48 mm–115 mm (1.9 in–4.5 in
Net Weight	11 kg | 25 lb
Side Struts, Included	0
Side Struts, Optional	0
Wind Velocity Operational	180 km/h | 112 mph

Product Specifications

COMMSCOPE

VHLP2-18-2WH/B

Wind Velocity Survival Rating	250 km/h | 155 mph

Wind Forces At Wind Velocity Survival Rating

Axial Force (FA)	1272 N | 286 lbf
Side Force (FS)	630 N | 142 lbf
Twisting Moment (MT)	473 N•m
Weight with 1/2 in (12 mm) Radial Ice	17 kg | 37 lb
Zog with 1/2 in (12 mm) Radial Ice	152 mm | 6 in
Zog without Ice	157 mm | 6 in

Product Specifications

COMMSCOPE

VHLP2-18-2WH/B

Wind Forces At Wind Velocity Survival Rating Image

Packed Dimensions

Gross Weight, Packed Antenna	16.0 kg | 35.3 lb
Height	380.0 mm | 15.0 in
Length	706.0 mm | 27.8 in
Volume	0.2 m³
Width	798.0 mm | 31.4 in

Product Specifications

COMMSCOPE

VHLP2-18-2WH/B

Antenna Dimensions And Mounting Information

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

Footnotes

Axial Force (FA)	Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.
Cross Polarization Discrimination (XPD)	The difference between the peak of the co-polarized main beam and the maximum cross polarized signal over an angle twice the 3 dB beamwidth of the co-polarized main beam.
Front-to-Back Ratio	Denotes highest radiation relative to the main beam, at 180° ±40°, across the band. Production antennas do not exceed rated values by more than 2 dB unless stated otherwise.
Gain, Mid Band	For a given frequency band, gain is primarily a function of antenna size. The gain of Andrew antennas is determined by either gain by comparison or by computer integration of the measured antenna patterns.
Operating Frequency Band	Bands correspond with CCIR recommendations or common allocations used throughout the world. Other ranges can be accommodated on special order.
Packing	Andrew standard packing is suitable for export. Antennas are shipped as standard (totally recyclable cardboard or wire bound crates (dependent on product). For your convenience, Andrew offers heavy duty export packing options.
Radiation Pattern Envelope Reference (RPE)	Radiation patterns determine an antenna's ability to discriminate against unwanted signals under conditions of radio congestion. Radiation patterns are dependent on antenna series, size, and frequency.
Return Loss	The figure that indicates the proportion of radio waves incident upon the antenna that are rejected as a result of those that are accepted.
Side Force (FS)	Maximum side force exerted on the mounting pipe as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.
Twisting Moment (MT)	Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.
VSWR	Maximum, is the guaranteed Peak Voltage Standing Wave Ratio within the operating band.
Wind Velocity Operational	The wind speed where the antenna deflection is equal to or less than 0.1 degrees. In the case of VelaLine antennas, it is defined as a maximum deflection of 0.1 x the 3 dB beam width of the antenna.
Wind Velocity Survival Rating	The maximum wind speed the antenna, including mounts and radomes, where applicable, will withstand without permanent deformation. Realignment may be required. This wind speed is applicable to antenna with the specified amount of radial ice.

DCI PACIFIC
AJEIC WORKS

TelePacific communications

VeloTera

PROJECT IDENTIFICATION
OAT MOUNTAIN
PALO SOLA TRUCK ROAD,
CHATSWORTH, CA 91311

CURRENT ISSUE DATE
08/24/15

ISSUED FOR:
ZONING

APPROVALS:

APPROVED BY	INITIALS:	DATE
LANDLORD		
LEASING		
ZONING		
RF		
CM		

DRAWN BY:	CHK:	APV:
JP	BCK	DKD

ISSUE STATUS:

△	DATE:	DESCRIPTION:	BY:
—	06/30/14	80% ZD	JP
—	07/10/14	100% ZD	JP
—	07/30/15	UPDATED ZD	JP
—	08/24/15	UPDATED PROJECT DESCRIPTION	JP

SHEET TITLE:
COMMSCOPE VHLP2-18 SPECIFICATIONS

SHEET NUMBER: A7

ISSUE LEVEL:

OAT MOUNTAIN

AB-MAX™

Point to Multipoint

Key Features
- WiMAX Compliant (802.16d), NLOS, Point-to-Multipoint system
- FCC and CE approved for U-NII and ISM bands
- Supports 5.47 - 5.85 GHz operation on a single platform
- QoS Support (CIR, PIR)
- Programmable dual-pol. Access Point antennas
- Dynamic Frequency Selection (DFS)
- Integrated GPS synchronization

Benefits
- Improved cell penetration and range
- Improved cell throughput (Up to 64QAM modulation)
- Different SLAs for different end users

Applications
- Wireless ISPs
- Rural Broadband
- Public Safety
- Transportation
- Cyber Cafes
- Enterprise Networks

AXXCELERA BROADBAND

Axxcelera Broadband Wireless is a data networking solutions company that is developing leading-edge technology for the deployment of broadband wireless communications over the Internet. The AB-MAX™ fixed wireless broadband platform bridges the last mile, currently replacing the local loop for corporate and small business subscribers and migrating to the residential market and will be certified WiMAX compliant. Axxcelera is a principal member of the WiMAX Forum.

AB-MAX OVERVIEW

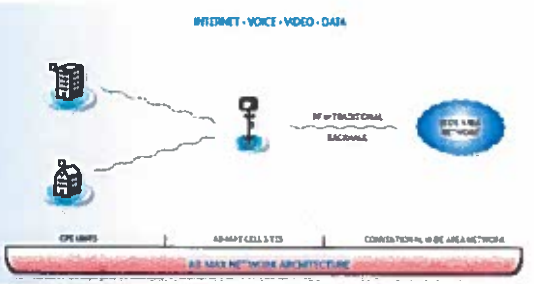
AB-MAX™ consists of fixed broadband wireless access equipment (Access Point and CPE) for Internet, data, multimedia, video, voice, and other emerging IP based applications. Combining WiMAX with higher level network features, AB-MAX™ provides a robust, cost-effective alternative to wired alternatives such as T1/E1, DSL and cable modems.

REASONS TO BUY AB-MAX

AB-MAX™ offers service providers a standards based Non Line of Site (NLOS) platform that helps improve cell range and penetration compared with proprietary single carrier solutions. It also supports Quality of Service (QoS) features like CIR and PIR along with advanced scheduling services like best effort service, real time polling and UGS services. This allows a service provider to offer different classes of service to different end customers. Deployments can use frequencies from the U-NII and ISM 5GHz spectrum. Select from various modulation options and antenna polarizations, all in a low cost, easy-to-deploy product.

WIMAX FORUM

Axxcelera BROADBAND WIRELESS



AB-MAX OPERATION

AB-MAX™ offers numerous options for provisioning and management. For small campus type networks, AB-MAX™ can be configured in a static environment via a web interface. For larger networks, AB-MAX™ can be configured via an automated provisioning server, where each unit can be provisioned and managed from a single location. AB-MAX™ also includes support MIB-2, WiMAX MIB, and Axxcelera custom MIB.

CELLSITE COMPONENTS

- One or more environmentally sealed Access Points (AP), each with an integrated 65° by 7° beam width patch antenna
- Six Access Points provide 360° gapless coverage
- Ethernet switch or router
- Backhaul equipment such as that offered by Axxcelera
- Other third party equipment as required

CUSTOMER PREMISES (CPE) COMPONENTS

- AB-MAX™ Customer Premises Equipment (CPE) with integrated 20° by 20° beam width single polarization patch antenna

NON LINE OF SIGHT

WiMAX technology includes OFDM, which provides greater non line of sight deployment options.

ENVIRONMENTAL CHARACTERISTICS

Temperature Range	-33°C to +55°C ambient temperature
Humidity	Up to 100% at 45°C
Wind Loading	120 miles/hour (~193 km/hour) per Bellcore GR-487-CORE section 4.3.1

SPECIFICATION SUMMARY

Operating Frequency Range	5.47 - 5.725 GHz, 5.725 - 5.850 GHz (Per U-NII and ISM band Specifications)
Channel Bandwidth	5, 10, or 15 MHz
Modulation	Dynamic Adaptive (BPSK, QPSK, 16QAM, 64QAM)

SPECIFICATION SUMMARY (Continued)

Transmit Power*	Access Point: +15 dBm (5.47 - 5.725 GHz), +18 dBm (5.725 - 5.850 GHz) CPE: +15 dBm (5.47 - 5.725 GHz), +18 dBm (5.725 - 5.850 GHz)
Integrated Antenna	Access Point: 16 dBi, dual-pol. per sector available CPE: 18 dBi, single pol.
Rx Sensitivity	-92 dBm
Dimension	CPE: 8"(h) x 8"(w) x 2"(d) (203mm x 203mm x 51mm) Access Point: 20"(h) x 10"(w) x 2.5"(d) (508mm x 254mm x 63mm)
Weight	CPE: 2.7lbs (1.2kg) Access Point: 11.2lbs (5.0kg)
Net Channel Throughput (backwards w/out DFS)	47Mbps (on 15MHz), 31Mbps (on 10MHz), 15Mbps (on 5MHz)
Net Channel Throughput (backwards with DFS)	43Mbps (on 15MHz), 28Mbps (on 10MHz), 14Mbps (on 5MHz)
Certifications	FCC, CE, WiMAX**
External Antenna (optional)	N-type connector
Security	3.509 authentication, CBC Mode 3des; DES, ALS-CCM mode
Protocols	Ethernet Bridging per IEEE802.1D, VLANs per IEEE 802.1Q (CPE only), Differentiated Services per IEEE802.1D/p, DHCP client (CPE only)
Interfaces	RJ45 auto-sensing 100Base-T Ethernet
Power Control	1/2, 2/3 or 3/4 FEC
Regulatory Compliance	FCC 15.247, FCC 15.401-407, RSS-210 A8, RSS-210 A9, R&TTE Directive 1999/5/EC, EN 301 893, EN 302 502; EMC, FCC Part 15, ICES-003, EMC Directive 2004/108/EC, EN 301 489-1, EN 301 489-17; Safety Low Voltage Directive 2006/95/EC, IEC 60950, EN 60950, UL 60950

* Actual transmit power level is subject to local regulatory constraints.
** Planned

Axxcelera Broadband Wireless is certified to the ISO 9001:2000 Quality Management System standard.

Axxcelera reserves the right to make changes to specifications described in this data sheet or user manual without notice.
© 2006 Axxcelera Corp. All rights reserved.

DCI PACIFIC
ARCHITECTURE & ENGINEERING
33 ENTERPRISE, SUITE 110
ALISO VIEJO, CA 92656

TelePacific COMMUNICATIONS

VeloTera

PROJECT IDENTIFICATION
OAT MOUNTAIN
PALO SOLA TRUCK ROAD,
CHATSWORTH, CA 91311

CURRENT ISSUE DATE:
08/24/15

ISSUED FOR:
ZONING

APPROVALS:

APPROVED BY:	INITIALS:	DATE:
LANDLORD		
LEASING		
ZONING		
RF		
CM		

DRAWN BY:	CHK:	APV:
IP	BDR	DKO

ISSUE STATUS:

Δ	DATE:	DESCRIPTION:	BY:
1	06/30/14	90% ZD	IP
2	07/10/14	100% ZD	VT
3	07/30/15	UPDATED ZD	VT
4	08/24/15	UPDATED PROJECT DESCRIPTION	VT

SHEET TITLE:
AXXCELERA ANTENNA SPECIFICATIONS

SHEET NUMBER: A8

ISSUE LEVEL:

OAT MOUNTAIN

Antenna Radome

The HT antenna can be equipped with a radome as shown in Figure 2-7.

Figure 2-7. HT Antenna Radome

Antenna specification

Table 2-26 lists the 90° antenna specifications.

Table 2-27 lists the 180° antenna specifications.

Figure 2-6 shows a side view of the 180° antenna.

Table 2-26. 9400H ODU – 90° antenna specifications

Parameter	Specification
26 GHz Frequency Range 28 GHz Frequency Range	24.25 to 26.8 GHz 27.3 to 29.5 GHz
Polarization	Vertical / Horizontal
Cross-polarization	- 25 dB min EN 301215-2 Class CS-2
Front to back	- 40 dB min EN 301215-2 Class CS-2
Beamwidth azimuth (3 dB)	90°
Beamwidth elevation	6°
Nominal boresight gain (dBi)	16 min
Size (H x W x D)	11.81 in x 9.97 in x 5.88 in 300 mm x 253 mm x 149 mm
Weight (including mount)	Approximately 20 lb. (9.1 kg)
Mount	Integrated adjuster 2 in to 4.5 in diameter mast (5.1 cm to 11.4 cm)

DCI PACIFIC
A|E|C WORKS

TelePacific COMMUNICATIONS

VeloTera

PROJECT IDENTIFICATION
OAT MOUNTAIN

CLARDIE ISSUE DATE
08/24/15

ISSUED FOR
ZONING

APPROVALS:

APPROVED BY:	INITIALS	DATE
LANDLORD		
LEASING		
ZONING		
RF		
CM		

DRAWN BY	CHK	APV
IP	BDK	DMJ

ISSUE STATUS:

△	DATE	DESCRIPTION	BY
	05/29/14	90% ZD	IP
	07/16/14	100% ZD	VT
	07/30/15	UPDATED ZD	VT
	08/24/15	UPDATED PROJECT DESCRIPTION	VT

SHEET TITLE:
HUGHES ANTENNA SPECIFICATIONS

SHEET NUMBER: A9

ISSUE LEVEL:

OAT MOUNTAIN

MTI WIRELESS EDGE LTD.

MT-463013/NVH
4.9-6.85 GHz 15.5 dBi 60° DUAL POLARITY SECTOR ANTENNA

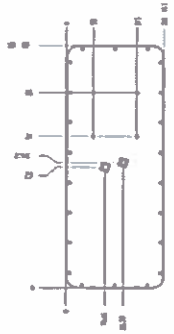
ELECTRICAL	
REGULATORY COMPLIANCE	Meets CE EMC
FREQUENCY RANGE	4.9 - 5.95 GHz
GAIN	15 dBi single / 12.5 dBi dual
VSWR	1.7 : 1 max. / 1.9 : 1 max.
POLARIZATION	Dual Linear (Vertical + Horizontal)
3DB ELEVATION BEAMWIDTH	8° (typ)
3DB AZIMUTH BEAMWIDTH	60° typ.
ELEVATION SIDE LOBES	-12 dB min.
F/B RATIO	25dB Typ.
CROSS POLARIZATION	25 dB min.
PORT TO PORT ISOLATION	30 dB single / 25 dB dual
POWER	2 kW (max)
INPUT IMPEDANCE	50 Ohms
LIGHTNING PROTECTION	DC Grounded
MECHANICAL	
DIMENSIONS (L x W x D)	580 x 280 x 80 mm (23 x 11 x 3.2 in)
CONNECTOR	2 x N-Type Female
WEIGHT	5.5 kgs (12 lbs)
MOUNTING KIT	MT-129025
RADOME MATERIAL	Plastic
ARCING THICKNESS	2.8 x 3.2 mm
BASE PLATE MATERIAL	Aluminum with Chromate Conversion Coating

ADD T2S CONFIGURATION | COMPLIANT

ENVIRONMENTAL				
TEST	STANDARD	DURATION	TEMPERATURE	NOTES
LOW TEMPERATURE	IEC 68-2-1	72 hr	-55°C	
HIGH TEMPERATURE	IEC 68-2-2	72 hr	+71°C	
TEMP CYCLING	IEC 68-2-14	1 hr	-40°C +70°C	9 Cycles
VIBRATION	IEC 68-2-6	30 minutes		Random/Wide
SHOCK MECHANICAL	IEC 68-2-31	3		6MS
HUMIDITY	ETSI EN300 019-2-4 T4.1E	144 h		95%
WATER IGNITING	IEC 529			IP67
SOLAR RADIATION	ASTM G53	2000h		
FLAMMABILITY	UL 94			Class HB
SALT SPRAY	IEC 68-2-11 Ka	480h		
ICE AND SNOW				25mm Radial
WIND SPEED SURVIVAL OPERATION				220 Km/h (137 MPH) 160 Km/h (100 MPH)

AZIMUTH RADIATION PATTERN MEASURED @ 5.25 GHZ

ELEVATION RADIATION PATTERN MEASURED @ 5.25 GHZ



WARNING:

While the information contained in this document has been carefully compiled to the best of our present knowledge, it is not intended as any promise or warranty of any kind on the part regarding the types of the products mentioned for any particular use or purpose and no warranty shall be implied and contained herein be construed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The fitness of our product for any particular purpose must be verified independently by our specialists.

MTI Wireless Edge Ltd
[illegible]
Tel: +972-3-[illegible] | Fax: +972-3-[illegible] | www.mtiwe.com

MTI MT-466013 ANTENNA SPECIFICATIONS | 2

RADWIN HPMP MBS 5200 Series
Sector Base Station - Data Sheet

RW-5200-0250

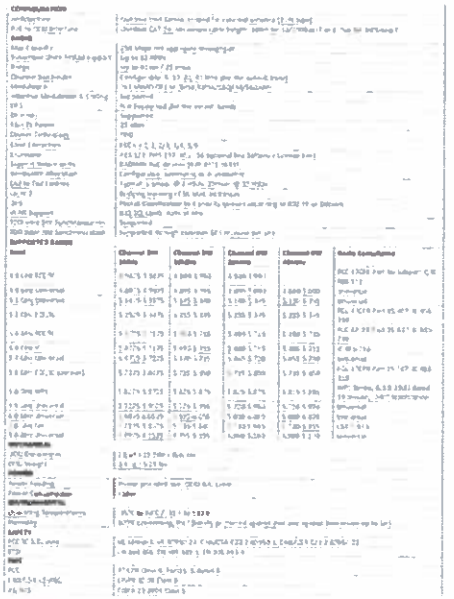
Product Description

RW-5200-0250 is a sector Base Station radio unit (MBS) that provides up to 250 Mbps net aggregate throughput while delivering access connectivity for up to 32 Subscriber Units (HSU).
RW-5200-0250 supports 4.9 to 6 GHz and complies with FCC/IC, Universal, IC, WPC & ACA regulations.
The radio is Connectorized for external antenna (2 x N-type).

Product Highlights

- Up to 250 Mbps net aggregate throughput
- Long range - up to 40 km/25 miles
- Supports up to 32 HSUs
- Guaranteed Service level Agreement (SLA) per HSU
- Exceptional short and constant latency
- Single radio supporting multiple bands
- Advanced MIMO, OFDM and Ethernet technologies
- Robust and reliable operation in harsh conditions, extreme temperatures and near line-of-sight scenarios
- Ease of operation and maintenance

Product Specifications



Corporate Headquarters, T: +972.3.766.2900, E: sales@radwin.com, www.radwin.com

RADWIN

RADWIN MBS 5200 SPECIFICATIONS | 1

DCI PACIFIC
A|E|C WORKS
[illegible]
33 ENTERPRISE #100 | SUITE 110
IRVINE | CA 92618

TelePacific COMMUNICATIONS

VeloTera

PROJECT IDENTIFICATION
OAT MOUNTAIN
[illegible]

CURRENT ISSUE DATE
08/24/15

ISSUED FOR
ZONING

APPROVALS:

APPROVED BY:	INITIALS	DATE
LANDLORD		
LEASING		
ZONING		
RF		
CM		

DRAWN BY	CHK	APP.
IP	BCK	DPD

ISSUE STATUS:

Δ	DATE	DESCRIPTION	BY
	05/30/14	90% ZD	IP
	07/30/14	100% ZD	IP
	07/30/15	UPDATED ZD	IP
	08/24/15	UPDATED PROJECT DESCRIPTION	IP

SHEET TITLE:
MTI MT-463013 ANTENNA AND RADWIN MBS 5200 SPECIFICATIONS

SHEET NUMBER: A10
ISSUE LEVEL:
OAT MOUNTAIN

Technical Data Sheet SC2-220SB

RFS

CompactLine Easy Antenna, Ultra High Performance, Single Polarized, 2 ft

Product Description

RFS CompactLine® and CompactLine® Easy Antennas are designed for short-haul microwave systems in all common frequency ranges from 6 GHz to 80 GHz. They are typically deployed in dense urban areas, metropolitan and suburban locations, aggregation points. They are especially optimized to integrated radios to reduce costs, installation complexity and time.

Antenna

Features, Benefits

- Sizes ranging from 0.3 m (1 ft) to 1.8 m (6 ft)
- Frequencies ranging from 5.925 GHz to 86 GHz with support for three wideband frequency ranges (5.925-7.125, 7.125-8.5 and 10.0-11.7 GHz) to reduce antenna requirements and simplify logistics
- Single (SB) and SC) and dual-polarized (SBX and SCX) models with the ability to upgrade from single to dual polarization and change frequencies in the field
- Low-profile design to reduce transportation requirements, wind load and antenna weight
- Simplified mounting design to accelerate installation
- CompactLine EASY models are extra light and easy to transport, deploy and upgrade
- Hardcover radomes
- Tested and validated ultra-high (ETSI EN 302 217 Class 3, FCC Class A) electrical performance
- Support for winds up to 250 km/h (155 mph) and even 320 km/h (185 mph) for SB1/SBX1
- An optional sway bar for antennas 1 m (3 ft) and larger for added assurance in close proximity areas during installation

Technical Features

Product Type	Point to point antennas
Frequency, GHz	21.2 - 23.6
Diameter, ft (m)	2 (0.6)
Profile	CompactLine® Easy
Reflector	1 part
Subplate	0 (Not applicable)
Feed and Radome	0 (Not applicable)
Performance	Ultra High
Polarization	Single
Regulatory Compliance	ETSI EN 302217 Range 3 Class 3 FCC Category A
3dB beamwidth, (degrees)	1.9
Antenna Inlet	PBR 220
Low Band Gain, dBi	40.5
Mid Band Gain, dBi	41
High Band Gain, dBi	41.5
F/B Ratio, dB	68
XPD, dB	30
Max VSWR / R.L. dB	1.20 | 19.1
Elevation Adjustment, degrees	± 20
Azimuth Adjustment, degrees	± 10
Polarization Adjustment, degrees	± 5
Radome	Rigid
Antenna color	White RAL 9010
Mounting Pipe Diameter minimum, mm (in)	48 (1.9)
Mounting Pipe Diameter maximum, mm (in)	114 (4.5)
Approximate Weight, kg (lb)	9 (20)
Survival Windspeed, km/h (mph)	252 (156)
Operational Windspeed, km/h (mph)	168 (112)

All information contained in this document is subject to confirmation at time of ordering

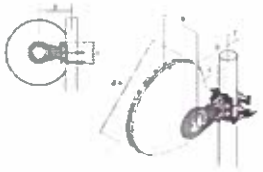
Technical Data Sheet SC2-220SB (Cont.)

RFS

CompactLine Easy Antenna, Ultra High Performance, Single Polarized, 2 ft

All values @ Survival Wind Speed

F_a Axial force max., N (lb)	613 (138)
F_t Torque max., Nm (lb*ft)	1230 (270)
M Torque max., Nm (lb*ft)	430 (94)



Dimensions

	mm (in)
ØA	670 (26.4)
B	298 (11.7)
C	230 (9.1)
D @ Mounting pipe Ø 2.75 (0.5)	refl. diameter
E @ Mounting pipe Ø 114 (4.5)	338 (12.8)
F @ Mounting pipe Ø 89 (3.5)	313.5 (12.3)
G @ Mounting pipe Ø 48 (1.9)	293 (11.5)
H	48 (1.9)
I	212 (8.3)
J	refl. space req.
K	not applicable

Notes

no notes

Documentation

Reflector installation
Feed installation
RPE (RC-Link format)
RPE (Pattern format)
RPE (PDF format)

All information contained in this document is subject to confirmation at time of ordering

DCI PACIFIC
A|E|C WORKS

TelePacific COMMUNICATIONS

VeloTera

PROJECT IDENTIFICATION
OAT MOUNTAIN

PALS SOLA TRUCK ROAD,
CHATSWORTH, CA 91311

DRAWING ISSUE DATE
08/24/15

ISSUED FOR
ZONING

APPROVALS:

APPROVED BY:	INITIALS:	DATE:
LANDLORD		
LEASING		
ZONING		
RF		
CM		

DRAWN BY:	CHK:	APV:
IP	BCH	DKO

ISSUE STATUS:

△	DATE:	DESCRIPTION:	BY:
—	05/30/14	90% ZD	IP
—	07/10/14	100% ZD	VT
—	07/30/15	UPDATED ZD	VT
—	08/24/15	UPDATED PROJECT DESCRIPTION	VT

SHEET TITLE:
RFS ANTENNA SPECIFICATIONS

SHEET NUMBER: A11

ISSUE LEVEL:

OAT MOUNTAIN

Created in GIS-NET3

Current and Previous SEA

Printed: Apr 19, 2016

Copyright 2013 - Los Angeles County Department of Regional Planning, GIS Section. Note: This map represents a quick representation of spatial imagery or vector layers using GIS-NET3. The map should be interpreted in accordance with the GIS-NET3 Public disclaimer statement. Printed with permission from the Los Angeles County Dept. of Regional Planning. All rights reserved.

0 500

Feet

LOS ANGELEGES COUNTY
DEPARTMENT OF REGIONAL PLANNING
SIGNIFICANT ECOLOGICAL AREAS
TECHNICAL ADVISORY COMMITTEE

DRAFT MINUTES OF THE SIGNIFICANT ECOLOGICAL AREA TECHNICAL ADVISORY COMMITTEE (SEATAC) MEETING OF January 11, 2016

To be approved by SEATAC at March 7, 2016 meeting

SEATAC MEMBERS
Sabrina Drill, PhD
Ty Garrison
Tom Scott, PhD

REGIONAL PLANNING STAFF
Diane Aranda, Planner
Anthony Curzi, Planner
Sam Dea, Supervising Regional Planner, Special Projects
Joe Decruyenaere, Biologist
Steven Jones, Planner, SEATAC Coordinator

Agenda Items:

A. Approval of minutes from SEATAC meeting of December 7, 2015
B. Coordinator's Report and New Business Discussion
C. Review Item
Project: Entrada North — Project No. R2013-02833-(5), VTTM 071377, CUP No. 201300151, Oak Tree Permit No. 201300036, Parking Permit No. 201300010, ENV No. 201300241
D. Consent Item
Project: Crown Castle Wireless Telecommunications Facility – Project No. 2015-03222-(5), CUP No. 201500128, ENV No. 201500234
E. Public Comment—Pursuant to Section 54954.3 of the Government Code

A. Approval of minutes from SEATAC meeting of December 7, 2015

SEATAC Motion:

Motion/second by Scott/Drill: Move to approve the draft minutes.

Vote--Aye: Scott and Drill / abstaining: Garrison.

B. Coordinator's Report and New Business Discussion

- Andrew Nickerson (of ERB) has indicated a wish to serve on SEATAC and his resume will be forthcoming.
- Recognition for committee members' services is being discussed within the Department.
- Appointment of SEATAC members to official department volunteers is subject to

standard protocol (e.g., live scan).
- Committee discusses additional ways to attract and retain qualified committee members including college talks and staff field trips.
- Agenda items will be taken out of order, with Item D preceding Item C.

C. Consent Item

Coordinator points out that agenda items are being taken out of order.

1. **Crown Castle Wireless Telecommunications Facility – R2015-03222-(5)**
   RCUPT201500128, RENVT201500234
   AIN: 2826017802
   ADDRESS: Palo Sola Truck Road, Chatsworth, CA 91313.
   USGS Topographic Quad: Oat Mountain
   APPLICANT: Crown Castle
   PLANNER: Anthony Curzi
   SEA: Santa Susana Mountains/Simi Hills

Case materials and SEA Resource descriptions are posted under January 11, 2016: http://planning.lacounty.gov/agenda/seatac/

Project Description:

The project is a request for a conditional use permit to authorize the continued operation and maintenance of an existing unmanned wireless telecommunications facility and a 542 square foot equipment shelter.

SEATAC Action Requested:

Provide a determination of project consistency with the SEA Compatibility Criteria.

SEATAC Motion:

Motion/second by Scott/Drill: The project is consistent with the SEA Compatibility Criteria.

Vote—Aye: unanimous

D. Review Item

2. **Entrada North—R2013-02833-(5), VTTM TR071377, RCUPT201300151, ROAKT201300036; RPKPT201300010, RENVT201300241**
   AINs: 2826-004-019, 020, 028, 030, 033, and 041 – 043; 2826-005-007 – 010, 012, and 013; 2826-006-008 and 009; 2826-007-021; 2826-008-028 and 034; 2826-009-081; 2826-163-001, 002, 008 – 011, 013, and 031; and 2866-003-008 – 011
   LOCATION: south of State Route 126, west of I-5 and The Old Road
   USGS Topographic Quad: Newhall
   APPLICANT: Newhall Ranch
   SEA: Santa Clara River

Case materials and SEA Resource descriptions are posted under January 11, 2016: http://planning.lacounty.gov/agenda/seatac/

Project Description:

Entrada North proposes to develop a mixed-use subdivision of a 456-acre site including 1,150 multi-family dwelling units, 2,624,400 square feet of commercial retail and office uses, 270-room hotel, 45,000 square-foot public facility, 268 acres of open space lots, and an outdoor amphitheater near Six Flags Magic Mountain at Magic Mountain Parkway. Entrada North also includes 22 acres of infrastructure improvements external to the subdivision map along with other infrastructure improvements internal to the subdivision map. The project includes 2.1 million cubic yards of balanced grading including movement of soil from Site A (hilly site) to Site B (flat site requiring additional elevation out of the flood zone).

SEATAC Action Requested:

Review and comment on Responses to SEATAC Comments document.

SEATAC Comments & Motions:

Comments:

1. Greater assurance is needed that plant stock will be properly handled after being rejected for use in on-site restoration. Provide details on disposal (that won't result in dispersal of pests or pathogens on or off site) and sufficiency of personnel to conduct inspection of material.
2. Natural recovery subsequent to "acts of God" may not be assured without adequate refugia or time for initial establishment of restoration plantings. Indicate availability of sufficient refugia and increase monitoring time to at least five years rather than three. Weed control should be implemented for the life of the project.
3. Indicate explicitly that intact native riparian habitats will not be disturbed for the sake of restoration planting; that the minimum amount of material and alteration to habitats will be utilized in restoration, and that restoration materials (both plant material and soils for use in pots) will be collected on site in order to reduce the likelihood of pathogen introduction.
4. Revise responses to Comment 5 regarding diseases and pests. Statements regarding seed and plant sources neglect to consider the possibility of disease and pest introduction from non-local material; emerging pests and diseases are not likely to be ephemeral, nor are they uncommon in intact natural vegetation.
5. Provide recent references to substantiate response to Comment 9 of the Response to Comments report dated November 2015.
6. State explicitly that relocation of animals is likely to result in mortality and may be inconsistent with the SEA Compatibility Criteria. Also state that hygienic technique will be used when handling animals.
7. Arroyo toad and pond turtles utilize upland habitats far beyond the floodplain, and pond turtles may nest unsuccessfully in agricultural areas. This should be made explicit in the document and considered in descriptions of possible impacts in

light of survey results for the site.

SEATAC Motion:

Motion/second by Ty/Drill: Further SEATAC review is needed, revise the BTR and Response to Comments to incorporate the above comments and recommendations.

Vote—Aye: unanimous

E. Public Comment—Pursuant to Section 54954.3 of the Government Code:

No public comment was made.

Procedure: SEATAC meetings are informal working sessions, open to public for observation and brief comment related to biology. Members are appointed volunteers in an advisory capacity. Minutes are prepared by planning staff from notes and the video record. Visitors are advised to take notes or refer to the event video posted on the SEATAC webpage at http://planning.lacounty.gov/agenda/seatac. Issues not discussed by SEATAC do not imply tacit approval. New or clarified information presented in subsequent submittals may raise new issues and may require further analysis. Minutes and motions are approved at the next SEATAC meeting. Draft minutes may be requested by the public prior to SEATAC

approval, but are subject to revision.