

RESOLUTION NO. PC 19-023

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF SAN CLEMENTE, CALIFORNIA, APPROVING, CONDITIONAL USE PERMIT 18-529, AT&T SMALL CELL DANAP 001, A REQUEST TO INSTALL AND OPERATE A SMALL WIRELESS FACILITY ON A CITY STREETLIGHT POLE IN THE PUBLIC RIGHT OF WAY AT 802 AVENIDA VISTA HERMOSA CS, ON THE NORTH SIDE OF AVENIDA VISTA HERMOSA APPROXIMATELY 235 FEET EASTERLY OF CAMINO VERA CRUZ

WHEREAS, on August 31, 2018, an application was submitted, and completed on June 19, 2019, by Franklin Orozco of M Squared Wireless, 1387 Calle Avanzado, San Clemente, CA 92673, on behalf of AT&T; for Conditional Use Permit (CUP) 18-529, a request to install and operate a small wireless facility on a City streetlight pole in the public right of way at 802 Avenida Vista Hermosa CS, on the north side of Avenida Vista Hermosa approximately 235 feet easterly of Camino Vera Cruz; and

WHEREAS, the Planning Division has completed an initial environmental assessment of the above matter in accordance with the California Environmental Quality Act (CEQA) and recommends that the Planning Commission determine the project is Categorically Exempt from CEQA pursuant to State CEQA Guidelines Section 15303 (Class 3: New Construction or Conversion of Small Structures). This is recommended because the project consists of the construction and location for limited numbers of new small facilities and structures, consisting of small wireless facilities located on replacement City-owned streetlight poles in the right of way; and

WHEREAS, on September 9, 2018, the Development Management Team (DMT) reviewed the proposed project for compliance with the General Plan, Zoning Ordinance, and other applicable City ordinances and codes; and

WHEREAS, on September 26, 2018 and December 12, 2018, the Design Review subcommittee (DRSC) considered the project and made recommendations which have been incorporated into the project; and

WHEREAS, the City Planner has advertised and noticed the Planning Commission public hearing for this item at least ten days in advance of the hearing both by publication in a newspaper of general circulation in the City of San Clemente and by mailing a notice of the time, place, and purpose of such hearing to required recipients, including property owners within 300 feet for the subject location; and

WHEREAS, on July 17, 2019, the Planning Commission of the City of San Clemente held a duly noticed public hearing on the subject application, considered written and oral comments, and facts and evidence presented by the applicant, City staff, and other interested parties.

NOW, THEREFORE, The Planning Commission of the City of San Clemente does hereby resolve as follows:

Section 1. Incorporation of Recitals.

The Planning Commission hereby finds that all of the facts in the Recitals are true and correct and are incorporated and adopted as findings of the Planning Commission as fully set forth in this resolution.

Section 2. CEQA Findings.

Based upon its review of the entire record, including the Staff Report, any public comments or testimony presented to the Planning Commission, and the facts outlined below, the Planning Commission hereby finds and determines that the proposed project is categorically exempt from CEQA pursuant to State CEQA Guidelines Section 15303 (Class 3: New Construction or Conversion of Small Structures). The Class 3 exemption applies to the “construction and location of limited numbers of new, small facilities or structures” and the “installation of small new equipment and facilities in small structures.” The Class 3 exemption applies to the installation of wireless communications equipment at multiple locations. (See *Aptos Residents Association v. County of Santa Cruz* (2018) 20 Cal.App.5<sup>th</sup> 1039 [finding the proposed installation of 13 microcell transmitters at different locations each consisting of an antenna mounted on an extender pole with related pole-mounted equipment to be exempt under the Class 3 exemption]; *Robinson v. City and County of San Francisco* (2012) 208 Cal.App.4<sup>th</sup> 950 [finding a series of approximately 40 proposed wireless telecommunications equipment installations to be fastened to utility poles throughout the City to be exempt under the Class 3 exemption]; *San Francisco Beautiful v. City and County of San Francisco* (2014) 226 Cal.App.4<sup>th</sup> 1012 [finding the installation of 726 metal utility boxes housing telecommunications equipment on city sidewalks to be exempt under the Class 3 exemption].)

Here, the proposed project is one of fourteen applications for the installation of small wireless facility equipment sites which will each include the placement of an antenna along with pole-mounted equipment located within an equipment shroud on replacement City-owned or San Diego Gas and Electric (SDG&E)-owned streetlights or utility poles. Sites also include a small subterranean equipment vault (or “hand-hole”). The equipment meets with the Federal Communications Commission (FCC) definition of “small wireless facility.” Each site thus consists of the “construction and location of limited numbers of new, small facilities or structures, or the “installation of small new equipment and facilities in small structures” within the meaning of the Class 3 exemption.

Furthermore, none of the exceptions to the use of the Class 3 categorical exemption identified in State CEQA Guidelines section 15300.2 apply. The project is not in a particularly sensitive environment and has no impact on any environmental resource of hazardous or critical concern since the project is located in the right of way adjacent to a multi-lane thoroughfare, is located over 60 feet from any adjacent occupiable structures, does not block scenic vistas, and there are not environmental resources affected. The project will not result in a cumulative impact from successive projects of the same type in the same place, over time, because the small wireless facilities are dispersed throughout the City and have been found to function below FCC-established radiofrequency (RF)

emissions levels. Any additional or subsequent small wireless facilities proposed to locate in the immediate vicinity will be subject to the same review with regard to impacts. There are no unusual circumstances surrounding the project that result in a reasonably possibility of a significant effect on the environment. The project is not in a scenic corridor, will not alter or impact historic resources, and does not include any hazardous waste sites. Thus, the Class 3 exemption applies, and no further environmental review is required.

### Section 3. Conditional Use Permit Findings

With respect to Conditional Use Permit (CUP) 18-529, the Planning Commission finds as follows:

- A. The proposed use is permitted within the subject zone pursuant to the approval of a Conditional Use Permit and complies with all the applicable provisions of this title, the San Clemente General Plan and the purpose and intent of the zone in which the use is being proposed, in that:
  1. Major utilities, such as antennas in the right of way, are permitted with a Conditional Use Permit pursuant to Zoning Ordinance Sections 17.28.240 and 17.28.070;
  2. The proposed facility is stealthed to the extent feasible with equipment shrouded at the top of the pole, utilizing a replacement of an existing City-owned streetlight; all conduit is located within the pole, and ground equipment and disconnects are located in small underground vaults consistent with General Plan Policy M-1.18, which seeks to promote the City's visual quality and character by encouraging "undergrounding or stealthing of overhead utility lines and equipment, cellular facilities, and related ground-mounted structures;" and
  3. The project is consistent with the Safety and Public Services & Utilities Elements of the General Plan. Emergency response systems utilize cellular technology and enhancing such allows emergency responders to locate callers more quickly. Enhanced cellular service also helps to ensure that the public, which is more and more interconnected through cellular service instead of land-lines, receives emergency alerts.
- B. The site is suitable for the type and intensity of use that is proposed, in that:
  1. The proposed site is in the public right of way adjacent to a multi-lane thoroughfare (6 lanes at the subject location). The site will be located on a replacement streetlight, the height of which will increase by 4'-3" and is in character with other adjacent, regularly spaced streetlights;
  2. The right of way is a customary location for public utilities and other similar infrastructure. The proposed use will help to provide improved wireless service for the public in the area and meet increasing consumer demands; and

3. The proposed use is an un-manned facility and will not generate any additional pedestrian or vehicular traffic, noise, or other similar impacts except for initial installation and sporadic maintenance, much like other public utility and infrastructure elements.
- C. The proposed use will not be detrimental to the public health, safety or welfare, or materially injurious to properties and improvements in the vicinity, in that:
1. The proposed use will be located on a replaced streetlight pole, the new height of which is in character with other similarly placed streetlights and which is not significantly aesthetically different than the other infrastructure located within the right of way;
  2. The proposed use will not produce any additional noise, light, glare, or other similar impacts because it is an unmanned wireless facility with minimal equipment; and
  3. The FCC has established maximum limitations for safe exposure to RF emissions. The FCC precludes local governments from denying or regulating the placement and construction of wireless facilities on the basis of environmental or health effects of RF to the extent that such facilities comply with FCC regulations concerning acceptable frequency emissions. The FCC has determined that many wireless facilities are unlikely to cause human exposures in excess of the RF exposure limits established by the FCC for public and occupational exposure. Facilities meeting this criteria are categorically excluded from routinely having to determine their compliance though more extensive RF/EME reports conducted by RF engineers or other professionals. The applicant has provided evidence that this facility is categorically excluded and is thus not required to provide a more extensive study. The use will be conditioned to ensure it continues to operate within required FCC parameters pertaining to RF emissions.
- D. The proposed use will not negatively impact surrounding land uses, in that:
1. The proposed use will be located on a replaced streetlight pole, the new height of which is in character with other similarly placed streetlights and which is not significantly aesthetically different than the other infrastructure located within the right of way;
  2. The proposed use is more than 60 feet from any private property with occupiable structures and is buffered from said properties by extensive landscape such that it should not be easily visible;
  3. The proposed use will not produce any additional noise, light, glare, or other similar impacts because it is an unmanned wireless facility with minimal equipment; and
  4. The FCC has established maximum limitations for safe exposure to RF emissions. The FCC precludes local governments from denying or

regulating the placement and construction of wireless facilities on the basis of environmental or health effects of RF to the extent that such facilities comply with FCC regulations concerning acceptable frequency emissions. The FCC has determined that many wireless facilities are unlikely to cause human exposures in excess of the RF exposure limits established by the FCC for public and occupational exposure. Facilities meeting this criteria are categorically excluded from routinely having to determine their compliance though more extensive RF/EME reports conducted by RF engineers or other professionals. The applicant has provided evidence that this facility is categorically excluded and is thus not required to provide a more extensive study. The use will be conditioned to ensure it continues to operate within required FCC parameters pertaining to RF emissions so as to ensure there is no harmful public exposure.

Section 4. Planning Commission Approval.

Based on the foregoing recitals and findings above, and the written and oral comments, facts, and evidence presented, the City of San Clemente Planning Commission approves Conditional Use Permit (CUP) 18-529, AT&T Small Cell DANAP 001, subject to the Conditions of Approval set forth in Exhibit A.

PASSED AND ADOPTED at a regular meeting of the City of San Clemente Planning Commission on July 17, 2019.

\_\_\_\_\_  
Chair

CERTIFICATION:

I HEREBY CERTIFY this Resolution was adopted at a regular meeting of the City of San Clemente Planning Commission on July 17, 2019, carried by the following roll call vote:

- AYES:            COMMISSIONERS:
- NOES:           COMMISSIONERS:
- ABSTAIN:       COMMISSIONERS:
- ABSENT:        COMMISSIONERS:

\_\_\_\_\_  
Secretary of the Planning Commission

**CONDITIONS OF APPROVAL  
CUP 18-529, AT&T SMALL CELL DANAP 001**

**1.0 GENERAL CONDITIONS OF APPROVAL**

- |     |   |                |
|-----|---|----------------|
| 1.1 | Within 30 days of receipt of the signed conditions of approval, the applicant shall submit to the City Planner a signed acknowledgement concurring with all conditions of approval on a form to be provided by the City, unless an extension is granted by the City Planner.  | Planning       |
| 1.2 | The applicant shall defend, indemnify, and hold harmless the City of San Clemente and its officers, employees, and agents from and against any claim, action, proceeding, fines, damages, expenses, and attorneys' fees, against the City, its officers, employees, or agents to attack, set aside, void, or annul any approval or condition of approval of the City concerning this project, including but not limited to any approval or condition of approval of the City Council, Planning Commission, or City Planner. Applicant shall pay all costs, The City shall promptly notify the applicant of any claim, action, or proceeding concerning the project and the City shall cooperate fully in the defense of the matter. The City reserves the right, at its own option, to choose its own attorney to represent the City, its officers, employees, and agents in the defense of the matter. If the applicant fails to so defend the matter, the City shall have the right, at its own option, to do so and, if it does, the applicant shall promptly pay the City's full cost of the defense. | Planning       |
| 1.3 | Use and development of this property shall be in substantial conformance with the approved plans, material boards and other applicable information submitted with this application, and with these conditions of approval.  | Planning       |
| 1.4 | The applicant shall comply with all applicable current and future provisions of the San Clemente Municipal Code, adopted ordinances, and state laws.  | All            |
| 1.6 | This Conditional Use Permit may be modified or revoked by the Planning Commission should the Commission determine, after a duly noticed hearing held in compliance with all applicable laws, including without limitation, the Federal Telecommunications Act and FCC rules and regulations, that the proposed use or conditions under which it is being operated or maintained are detrimental to the public health, safety, or welfare, or materially injurious to properties or improvements in the vicinity.  | Planning<br>** |
| 1.7 | In accordance with Government Code Section 66020, the applicant is informed that the 90-day period in which the Applicant   | Planning<br>** |

- may protest the fees, dedications, reservation, or exactions imposed on this project through the conditions of approval has begun.
- 1.8 Within 48 hours from project approval, the applicant shall submit to the Planning Division a check in the amount of \$50.00, made payable to the Orange County Clerk-Recorder, for filing the Notice of Exemption. Planning  
\*\*
  - 1.9 Prior to any work in the public right-of-way on City-owned utilities/poles, a fully executed Master License Agreement (MLA), that includes the subject site, shall be in place between the City and the wireless carrier and/or operator of the wireless telecommunications facility. To the extent permitted by law, the applicant shall be responsible for any City Attorney cost associated with review and approval of the MLA. Planning  
Public  
Works\*\*
  - 1.10 Prior to issuance of permits or any work in the public right-of-way, the applicant shall submit for and obtain an Encroachment Permit to cover the inspection of the actual work in the public right-of-way. The public sidewalk shall remain open at all times of construction, unless otherwise approved by the City Engineer. Public  
Works\*\*
  - 1.11 If the poles are to be removed and/or replaced at a later time due to undergrounding of utilities, damage to the pole, installation of sidewalk, or any other such reason where the pole is changed, it shall be the sole cost of the improvement owner to remove/relocate their facilities. Modification to facilities may require the approval of the City Planner or further discretionary permits. Similarly, it shall be the responsibility of the owner or designee to relocate and/or replace, all improvements associated with this application in the event a conflict with pre-existing utilities or infrastructure is found at any time. Public  
Works\*\*
  - 1.12 Prior to issuance of any Encroachment Permit, if it is determined that proposed work involves cutting into existing street paving that is subject to the City's Moratorium Policy, the City Engineer shall establish repair standards which may include repaving the entire width of the street in the area of the proposed work. Public  
Works\*\*
  - 1.13 The applicant shall maintain 4-foot sidewalk clearance around proposed improvements. The applicant shall be responsible for adjusting improvements as needed, including obtaining any necessary associated approvals. Public  
Works\*\*
  - 1.14 *Permit Duration.* A Conditional Use Permit shall be valid for a period of ten (10) years, unless pursuant to another provision of the Code or these conditions, it expires sooner or is terminated. At Planning  
\*\*

the end of ten (10) years from the date of issuance, such Permit shall automatically expire, unless an extension or renewal has been granted. A person holding a wireless encroachment permit must either (1) remove the facility within thirty (30) days following the permit's expiration (provided that removal of support structure owned by City, a utility, or another entity authorized to maintain a support structure in the right of way need not be removed, but must be restored to its prior condition, except as specifically permitted by the City); or (2) at least ninety (90) days prior to expiration, submit an application to renew the permit, which application must, among all other requirements, demonstrate that the impact of the wireless facility cannot be reduced. The wireless facility must remain in place until it is acted upon by the City and all appeals from the City's decision exhausted.

1.15 The permittee shall at all times maintain compliance with all applicable federal, state and local laws, regulations and other rules, including, without limitation, those applying to use of public rights-of-way. Planning  
\*\*

1.16 *RF Exposure Compliance.* All facilities must comply with all standards and regulations of the FCC and any other state or federal government agency with the authority to regulate RF exposure standards. After transmitter and antenna system optimization, but prior to unattended operations of the facility, permittee or its representative must conduct on-site post-installation RF emissions testing to demonstrate actual compliance with the FCC OET Bulletin 65 RF emissions safety rules for general population/uncontrolled RF exposure in all sectors. For this testing, the transmitter shall be operating at maximum operating power, and the testing shall occur outwards to a distance where the RF emissions no longer exceed the uncontrolled/general population limit. Planning  
\*\*

1.17 *No waiver of standing.* The city's grant of a permit for a small cell facility request does not waive, and shall not be construed to waive, any standing by the city to challenge any FCC orders or rules related to small cell facilities, or any modification to those FCC orders or rules. Planning  
\*\*

**5.0 PRIOR TO FINAL INSPECTION**

5.10 The applicant shall ensure the equipment shroud is in a color and finish to match the lightpole to the satisfaction of the City Planner. Planning  
\*\*

**7.0 OPERATIONAL CONDITIONS OF APPROVAL**

7.15 The Applicant is required to completely dismantle and remove the Planning

- wireless facility and all of its associated antennas and all equipment and infrastructure established and maintained at the subject location pursuant to this permit if the use is abandoned, discontinued, or no longer providing service for a period of six months or more. Public Works\*\*
- 7.16 The applicant shall cooperate with other wireless communications providers in co-locating additional antennas, equipment or structures at the subject location, provided said providers have received all required approvals. The applicant shall exercise good faith in co-locating with other wireless providers and sharing the permitted site, provided such shared use does not give rise to a substantial technical level or quality of service impairment of the permitted use (as opposed to a competitive conflict or financial burden). Planning\*\*
- 7.17 The applicant shall maintain all communications facility and antenna elements approved pursuant to this permit in a “like new” condition and shall promptly repair, replace, or repaint elements as applicable within 90 days upon written notification from the City Planner. Planning\*\*
- 7.18 All future modifications to this facility shall be in conformance with applicable City ordinances and state and federal regulations at the time of the modification. Planning\*\*

\* Denotes a modified Standard Condition of Approval

\*\* Denotes a project-specific Condition of Approval

**CUP 18-529: DANAP 001**

**Project Location and Setting**



The site is a streetlight pole at 802 Avenida Vista Hermosa CS, on the north side of Avenida Vista Hermosa, approximately 235 feet easterly of the centerline of Camino Vera Cruz. Avenida Vista Hermosa is a multi-lane thoroughfare with tapered concrete streetlights at regularly spaced intervals down each side as well as in the median.

The site is located between low density residential zoned uses within the Forster Ranch Specific Plan and undeveloped open space in the Marblehead Inland Specific Plan. The nearest occupiable structure is a residence at 2442 Camino Oleada, the property line for

## ATTACHMENT 1.b.

which is approximately 62 feet away from the proposed antenna. The residence itself is approximately 75 feet away. The top of the antenna is 34'9" taller than grade at the base of the pole, and the residential pad is approximately 22 feet higher than the pole. There is a significant landscape and tree buffer on the hillside between the residential property and the subject location.



AT&T Mobility Radio Frequency Statement  
San Clemente CA Small Cell Node DANAP\_001

The proposed node is necessary to improve signal quality in the area, which will increase data rates necessary for customers to consistently stream video. The node will do so by offloading network traffic carried by an antenna sector on a nearby macro facility that is experiencing, or is forecast to experience, capacity restraints that reduce mobile data speeds. Increasing data speed is critical to providing the mobile experience customers demand and to manage the unprecedented increase in mobile data usage on AT&T's network. AT&T estimates that since introduction of the iPhone in 2007, mobile data usage has increased 250,000% on its network. AT&T forecasts its customers' growing demand for mobile data services to continue. The increased volume of data travels to and from customers' wireless devices and AT&T's wireless infrastructure over limited airwaves — radio frequency spectrum that AT&T licenses from the Federal Communications Commission ("FCC").

Spectrum is a finite resource and there are a limited number of airwaves capable and available for commercial use. Wireless carriers license those airwaves from the FCC. To ensure that service quality, AT&T must knit together its spectrum assets to address customers' existing usage and forecasted demand for wireless services, and it must use its limited spectrum in an efficient manner.

AT&T uses high-band (i.e., 2300 MHz, 2100 MHz, and 1900 MHz) and low-band (i.e., 850 MHz and 700 MHz) spectrum to provide wireless service. Each spectrum band has different propagation characteristics and signal quality may vary due to noise or interference based on network characteristics at a given location. To address this dynamic environment, AT&T deploys multiple layers of its licensed spectrum and strives to bring its facilities closer to the customer. When facilities are placed in high-traffic areas where the local macro sector is constrained, the customer receives a stronger signal that produces faster data rates. The faster data rates allow customers to get on and off the network quickly, which produces more efficient use of the limited spectrum. Thus, to address the existing and forecasted demand and to support 5G speeds in the near future, AT&T plans to deploy small cell facilities within public rights-of-way.

As noted above, competition and customer demand require that AT&T design and maintain its network so that customers experience average data rates sufficient to stream video. Any areas that do not meet this minimal standard represent a service coverage gap that must be closed. This small cell facility that AT&T proposes in this portion of San Clemente is needed to close a service coverage gap. This service coverage gap is significant because it includes many dozens of homes in nearby residential areas, parks, and a school. The proposed small cell facility will not only help close the existing gap by

improving data speeds, but it will also help address the increased usage by offloading the nearby macro antenna sector during current and future peak demand periods.

It is important to understand that service problems can and do occur for customers even in locations where the coverage maps on AT&T's "Coverage Viewer" website appear to indicate that coverage is available. As the legend to the Coverage Viewer maps indicates, these maps display approximate coverage. Actual coverage in an area may differ from the website map graphics, and it may be affected by such things as terrain, weather, network changes, foliage, buildings, construction, high-usage periods, customer equipment, and other factors.

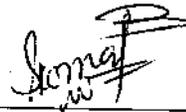
It is also important to note that the signal losses, slow data rates, and other service problems can and do occur for customers even at times when certain other customers in the same vicinity may not experience any problems on AT&T's network. These problems can and do occur even when certain customers' wireless phones indicate coverage bars of signal strength on the handset. The bars of signal strength that individual customers can see on their wireless phones are an imprecise and slow-to-update estimate of service quality. In other words, a customer's wireless phone can show coverage bars of signal strength, but that customer will still, at times, be unable to initiate voice calls, complete calls, or download data reliably and without service interruptions due to service quality issues.

To determine where new equipment needs to be located for the provisioning of reliable service in any area, AT&T's radio frequency engineers rely on far more complex tools and data sources than just signal strength from individual phones. AT&T uses industry standard simulation tools to identify the areas in its network where interference will affect data rates and service quality. This information is developed from many sources including terrain and clutter databases that simulate the environment, traffic maps that simulate the density of users in the environment, and propagation models that simulate signal relative to interference in the presence of terrain and clutter variation. AT&T evaluates signal quality based on the Signal to Interference and Noise Ratio (SINR), which directly affects data speeds. AT&T designs and builds its wireless network to ensure customers will receive reliable in-building service coverage and data rates sufficient to stream video and complete calls. This level of service is critical as customers increasingly use their mobile phones as their primary communication devices (more than 70% of American households rely exclusively or primarily on wireless phones) and rely on their mobile phones to do more (E911, video streaming, GPS, web access, text, etc.). In fact, the FCC estimates that 70% of 911 calls are placed by people using wireless phones. And with AT&T's selection by the federal First Responder Network Authority, FirstNet, as the wireless service provider to build and manage

the nationwide first responder wireless network, each new or modified facility will strengthen first responder communications.

Exhibit 1 is a map that depicts the area near the proposed node by data rates when noise or interference is introduced into the high-band signal of the existing high-band LTE service (without the proposed small cell node). The green shading shows areas where customers experience excellent data speeds that can typically support high-definition video streaming, and the yellow shading portrays areas where customers experience acceptable data speeds to stream standard-definition video. The pink shading, however, depicts areas where customers will not be able to reliably stream video and are using resources inefficiently. Exhibit 2 displays this same area after the proposed small cell node is constructed and on air. As you can see, the proposed node helps to close AT&T's significant service coverage gap in this area effectively.

My conclusions are based on my knowledge of the proposed small cell locations and with AT&T's wireless network in the surrounding area. I have a Bachelor Degree in Telecommunications Engineering from the University of Texas, and have worked as an engineering expert in the wireless communications industry for more than 10 years.

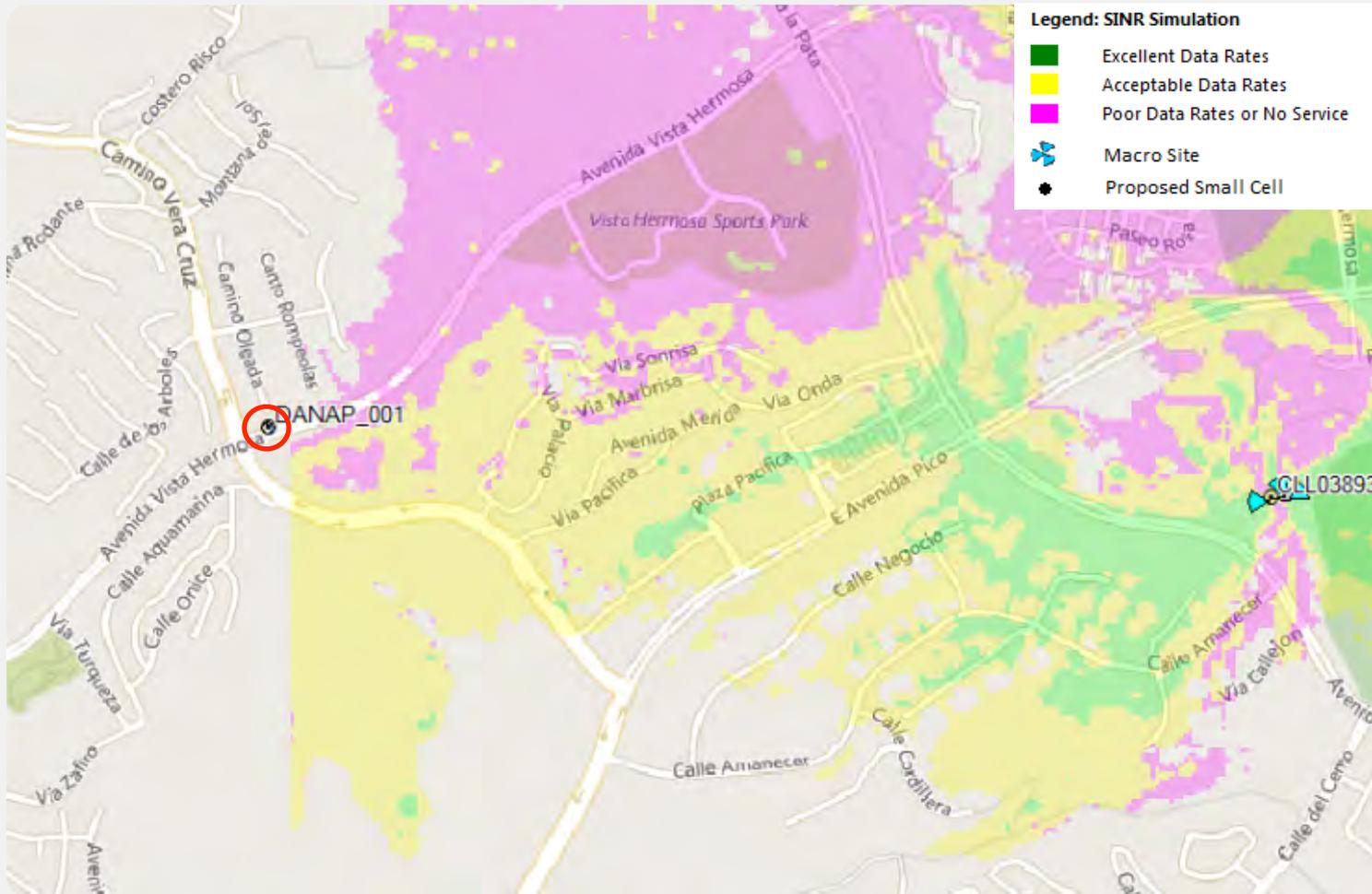


---

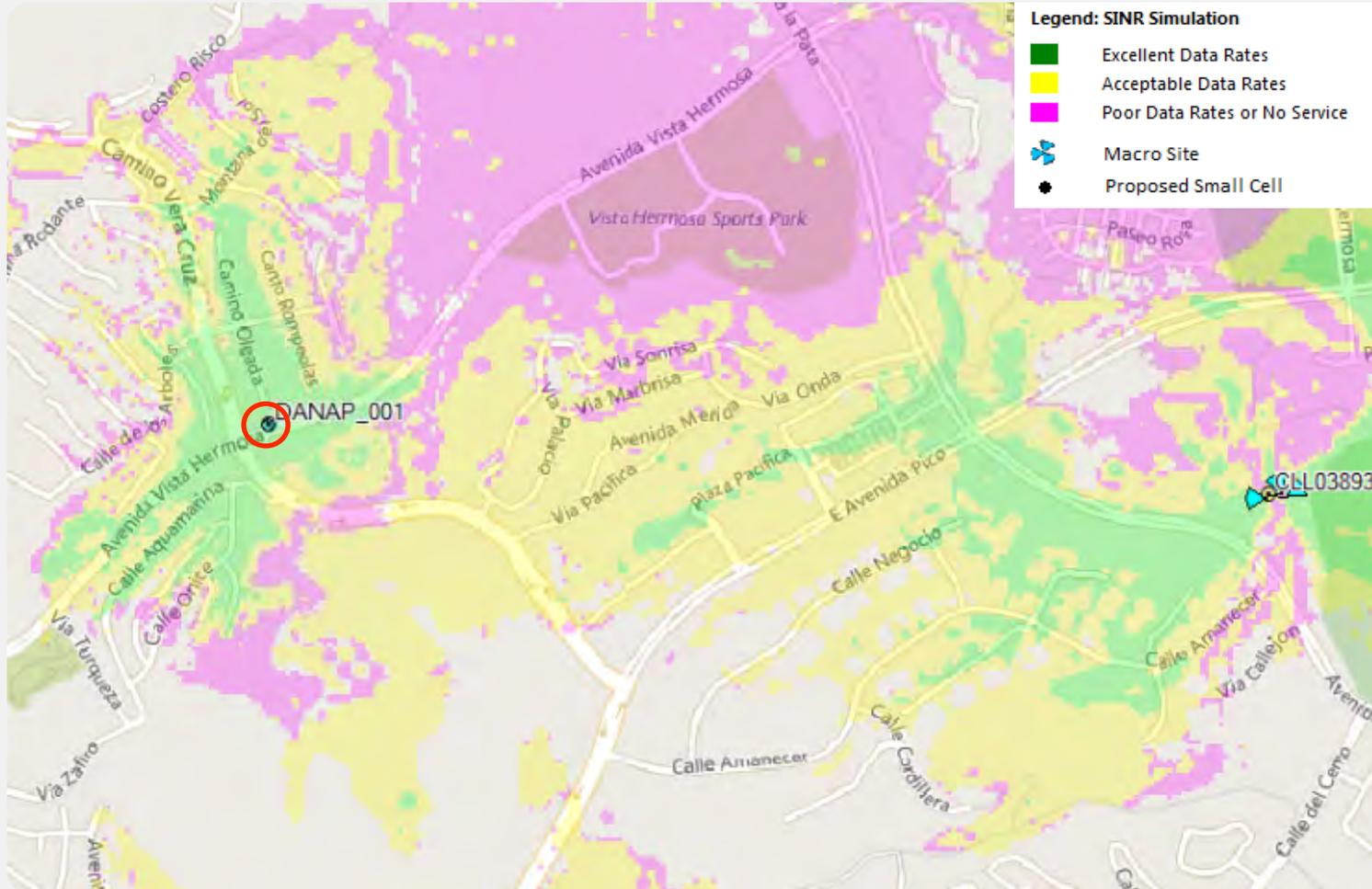
Komal Mustafa  
AT&T Mobility Services LLC  
Network, Planning & Engineering  
RAN Design & RF Engineering  
August 2018

# SINR Simulation without proposed Small cell

## Node DANAP\_001



# SINR Simulation with proposed Small cell Node DANAP\_001



**Optional Checklist for Local Government  
To Determine Whether a Facility is Categorically Excluded**

Purpose: The FCC has determined that many wireless facilities are unlikely to cause human exposures in excess of RF exposure guidelines. Operators of those facilities are exempt from routinely having to determine their compliance. These facilities are termed "categorically excluded." Section 1.1307(b)(1) of the Commission's rules defines those categorically excluded facilities. This checklist will assist state and local government agencies in identifying those wireless facilities that are categorically excluded, and thus are highly unlikely to cause exposure in excess of the FCC's guidelines. Provision of the information identified on this checklist may also assist FCC staff in evaluating any inquiry regarding a facility's compliance with the RF exposure guidelines.

**BACKGROUND INFORMATION**

1. Facility Operator's Legal Name: AT&T Mobility
2. Facility Operator's Mailing Address: 1452 Edinger Avenue, Tustin, CA 92618
3. Facility Operator's Contact Name/Title: Amelia Pineda
4. Facility Operator's Office Telephone: (800) 832-6662
5. Facility Operator's Fax: \_\_\_\_\_
6. Facility Name: CRAN\_RLOS\_DANAP\_001
7. Facility Address: Right-of-way of Avenida Vista Hermosa
8. Facility City/Community: San Clemente
9. Facility State and Zip Code: CA 92673
10. Latitude: 33.456243
11. Longitude: -117.616856

continue  
→

## Optional Local Government Checklist (page 2)

**EVALUATION OF CATEGORICAL EXCLUSION**

12. Licensed Radio Service (see attached Table 1): Personal Communications Services
13. Structure Type (free-standing or building/roof-mounted): Free-standing
14. Antenna Type [omnidirectional or directional (includes sectored)]: Omni
15. Height above ground of the lowest point of the antenna (in meters): 9.96
16.  Check if all of the following are true:
- (a) This facility will be operated in the Multipoint Distribution Service, Paging and Radiotelephone Service, Cellular Radiotelephone Service, Narrowband or Broadband Personal Communications Service, Private Land Mobile Radio Services Paging Operations, Private Land Mobile Radio Service Specialized Mobile Radio, Local Multipoint Distribution Service, or service regulated under Part 74, Subpart I (see question 12).
- (b) This facility will not be mounted on a building (see question 13).
- (c) The lowest point of the antenna will be at least 10 meters above the ground (see question 15).

If box 16 is checked, this facility is categorically excluded and is unlikely to cause exposure in excess of the FCC's guidelines. The remainder of the checklist need not be completed. If box 16 is not checked, continue to question 17.

17. Enter the power threshold for categorical exclusion for this service from the attached Table 1 in watts ERP or EIRP\* (note:  $EIRP = (1.64) \times ERP$ ): 1640 per Table 1 PCS (part 24)
18. Enter the total number of channels if this will be an omnidirectional antenna, or the maximum number of channels in any sector if this will be a sectored antenna: 4
19. Enter the ERP or EIRP per channel (using the same units as in question 17): 20
20. Multiply answer 18 by answer 19: 80
21. Is the answer to question 20 less than or equal to the value from question 17 (yes or no)? (yes)

If the answer to question 21 is YES, this facility is categorically excluded. It is unlikely to cause exposure in excess of the FCC's guidelines.

If the answer to question 21 is NO, this facility is not categorically excluded. Further investigation may be appropriate to verify whether the facility may cause exposure in excess of the FCC's guidelines.

\*"ERP" means "effective radiated power" and "EIRP" means "effective isotropic radiated power"

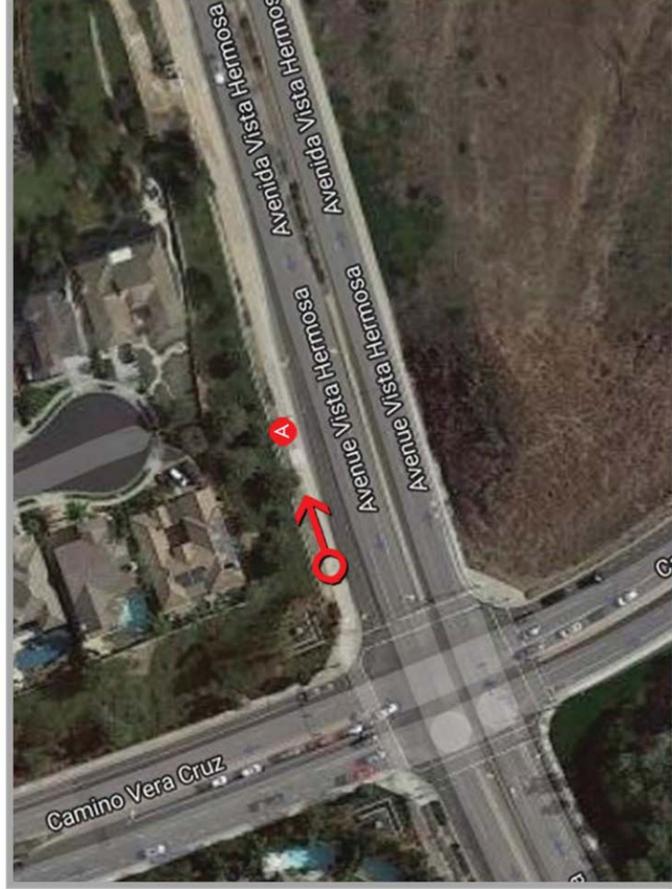
TABLE 1 (cont.)

SERVICE (TITLE 47 CFR RULE PART)	EVALUATION REQUIRED IF:
<p>Personal Communications Services (part 24)</p>	<p>(1) Narrowband PCS (subpart D):  <u>non-building-mounted antennas</u>: height above ground level to lowest point of antenna &lt; 10 m <u>and</u> total power of all channels &gt; 1000 W ERP (1640 W EIRP)  <u>building-mounted antennas</u>: total power of all channels &gt; 1000 W ERP (1640 W EIRP)</p> <p>(2) Broadband PCS (subpart E):  <u>non-building-mounted antennas</u>: height above ground level to lowest point of antenna &lt; 10 m <u>and</u> total power of all channels &gt; 2000 W ERP (3280 W EIRP)  <u>building-mounted antennas</u>: total power of all channels &gt; 2000 W ERP (3280 W EIRP)</p>
<p>Satellite Communications (part 25)</p>	<p>all included</p>
<p>General Wireless Communications Service (part 26)</p>	<p>total power of all channels &gt; 1640 W EIRP</p>
<p>Wireless Communications Service (part 27)</p>	<p>total power of all channels &gt; 1640 W EIRP</p>
<p>Radio Broadcast Services (part 73)</p>	<p>all included</p>

# CRAN\_RLOS\_DANAP\_001

DANAP 001

802 1/3 AVE. VISTA HERMOSA SAN CLEMENTE, CA 92673



@2016 Google Maps



PROPOSED



EXISTING

LOOKING NORTHEAST FROM AVENUE VISTA HERMOSA

# CRAN\_RLOS\_DANAP\_001

DANAP 001

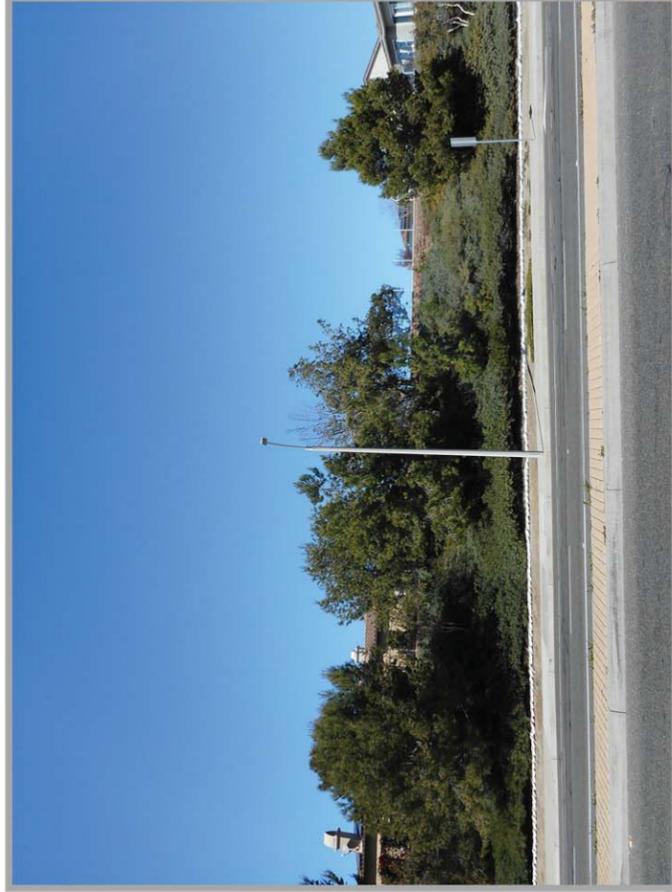


802 1/3 AVE. VISTA HERMOSA SAN CLEMENTE, CA 92673



LOCATION

@2016 Google Maps



EXISTING



PROPOSED

LOOKING NORTHWEST FROM AVENUE VISTA HERMOSA

# CRAN\_RLOS\_DANAP\_001

DANAP 001

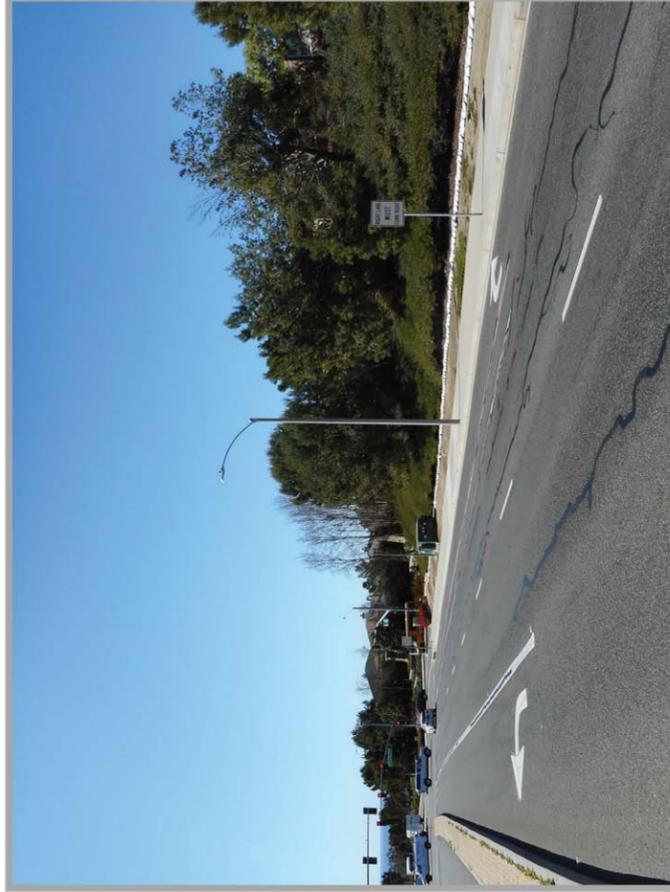


802 1/3 AVE. VISTA HERMOSA SAN CLEMENTE, CA 92673



LOCATION

@2016 Google Maps



EXISTING



PROPOSED

LOOKING NORTHWEST FROM AVENUE VISTA HERMOSA

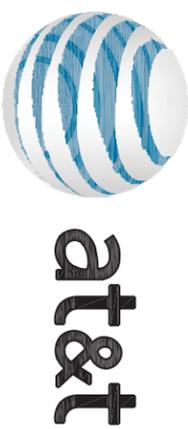
SITE NAME: DANAP 001

SITE NUMBER: CRAN\_RLOS\_DANAP\_001

PROJECT: CRAN/SMALL CELL/PICO

USID: 204381

PAGE: MRLOS046905



POLE TYPE: (N) CONCRETE LIGHT POLE

POLE ID #: TBD

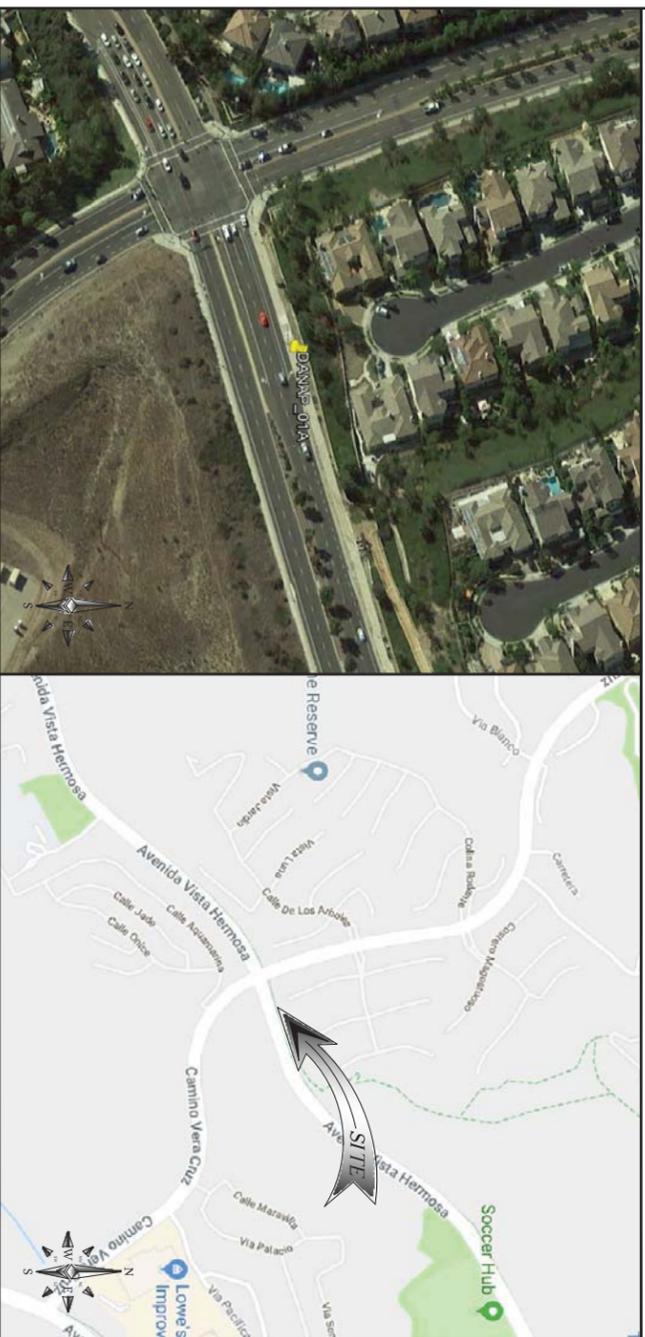
LATITUDE/LONGITUDE: 33.4562430/ -117.6168560

SITE ADDRESS: 802 1/3 AVE. VISTA HERMOSA CS,

SAN CLEMENTE, CA 92673

FIBER ADDRESS: 200 FT EAST OF CAMINO VERA CRUZ ON N/S/O VISTA HERMOSA, SAN CLEMENTE, CA 92673

AREA MAPS



VICINITY MAP

LOCATION MAP

CASE #: CUP 18-529

CONSTRUCTION DRAWING

IF USING 11"x17" PLOT, DRAWING WILL BE HALF SCALE

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS & AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT & MAY IMPOSE CHANGES OR MODIFICATIONS.

Table with columns for APPROVED BY, INITIALS, and DATE. Rows include AT&T RF ENGINEER, AT&T OPERATIONS, SITE ACQUISITION MANAGER, PROJECT MANAGER, ZONING VENDOR, LEASING VENDOR, CONSTRUCTION MANAGER, A/E MANAGER, PROPERTY OWNER, and UTILITY MANAGER.

APPROVALS

AT&T PROPOSES TO INSTALL A NEW WIRELESS INSTALLATION LOCATED IN THE PUBLIC RIGHT OF WAY TO (N) CONCRETE LIGHT POLE. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- AT&T TO REMOVE (1) EXISTING CONCRETE STREETLIGHT
• AT&T TO INSTALL (1) 29'-3" CONCRETE STREETLIGHT
• AT&T TO INSTALL (4) NEW AT&T REMOTE RADIO UNITS
• AT&T TO INSTALL (1) NEW AT&T OMNIDIRECTIONAL ANTENNA
• AT&T TO INSTALL (1) NEW AT&T EQUIPMENT SHROUD
• AT&T TO INSTALL (1) NEW RAYCAP DISCONNECT
• AT&T TO INSTALL (1) NEW HANDHOLE

PROJECT DESCRIPTION

Table with columns for SHEET NO. and SHEET TITLE. Rows include T-1 TITLE SHEET, GN-1 GENERAL NOTES, A-1 SITE PLAN, A-2 ELEVATIONS, A-3 ELEVATIONS, A-4 SITE IMAGE, D-1 DETAILS, D-2 DETAILS, S-1 POLE DETAILS, S-1 ELECTRICAL & GROUNDING DETAILS.

DRAWING INDEX

DO NOT SCALE DRAWINGS

ATTACHMENT 1.f



ERICSSON logo and address: 3300 COMMERCE, STE. 200 IRVINE, CA 92602

M SQUARE WIRELESS logo and address: 1387 CALLE AVANZADO SAN CLEMENTE CA 92673 (949) 391-6824

Table with columns for DRAWN BY, CHECKED BY, and DATE. Includes names DGM and MM.

Table with columns for REVISION, DATE, and DESCRIPTION. Includes revisions for 100% CONSTRUCTION and 90% CONSTRUCTION.

Professional Engineer Seal for Loyal A. Wharton, Registered Professional Engineer, State of California, License No. C50547.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE ID: DANAP 001
802 1/3 AVE. VISTA HERMOSA CS
SAN CLEMENTE, CA. 92673

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL BUILDING DEPARTMENT. NOTING THESE PLANS IS TO BE CONSIDERED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- 1. 2016 CALIFORNIA ADMINISTRATIVE CODE
2. 2016 CALIFORNIA BUILDING CODE
3. 2016 CALIFORNIA ELECTRIC CODE
4. 2016 CALIFORNIA MECHANICAL CODE
5. 2016 CALIFORNIA PLUMBING CODE
6. 2016 CALIFORNIA FIRE CODE
7. ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE
8. CITY/COUNTY ORDINANCES

HANDICAP REQUIREMENTS:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA ADMINISTRATIVE STATE CODE PART 2, TITLE 24, CHAPTER 11B, SECTION 1108B.

CODE COMPLIANCE

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE. NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS NEW.

GENERAL NOTES



Dig Alert
Know What's Below.
Call before you dig.
CALIFORNIA SOUTH
Call Toll Free 800-227-2600
811 / 800-227-2600

DIG ALERT

PUBLIC/PRIVATE: PUBLIC RIGHT-OF-WAY
ADDRESS: 802 1/3 AVE. VISTA HERMOSA CS, SAN CLEMENTE, CA 92673
APPLICANT: AT&T
ADDRESS: 1452 EDINGER AVE, TUSTIN, CA 92780
LATITUDE (NAD 83): 33.4562430
LONGITUDE (NAD 83): -117.6168560
GROUND ELEVATION (NAD 83): 460
CURRENT ZONING: CITY OF SAN CLEMENTE
PROPOSED USE: UNMANNED TELECOMMUNICATIONS
POWER COMPANY: SDG&E
ADDRESS: 8335 CENTURY PARK COURT, CP-110 SAN DIEGO, CA 92123

PROJECT SITE INFORMATION

PROJECT MANAGER: M SQUARED WIRELESS
ENGINEER: M SQUARED WIRELESS
SAC/COMMING/PERMITTING: SENIOR TECHNICAL PROJECT MANAGER:
CONTACT: KARLO DANAGRACIA
EMAIL: KD270@ATT.COM

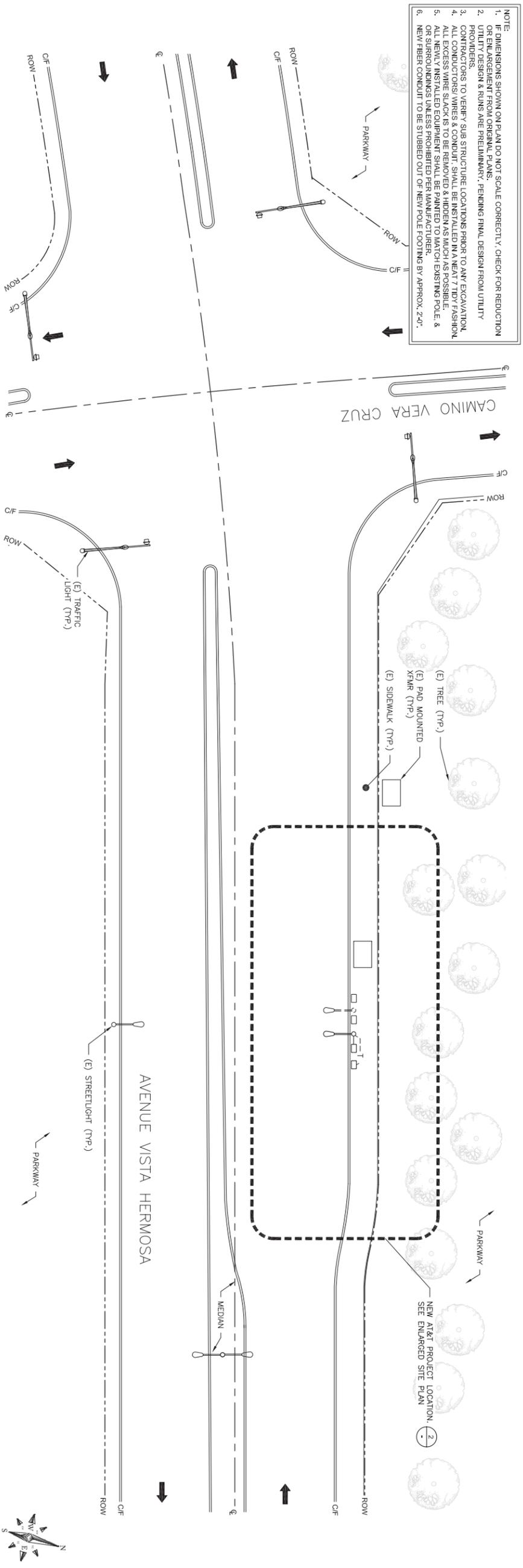
PROJECT TEAM

DRIVING DIRECTIONS

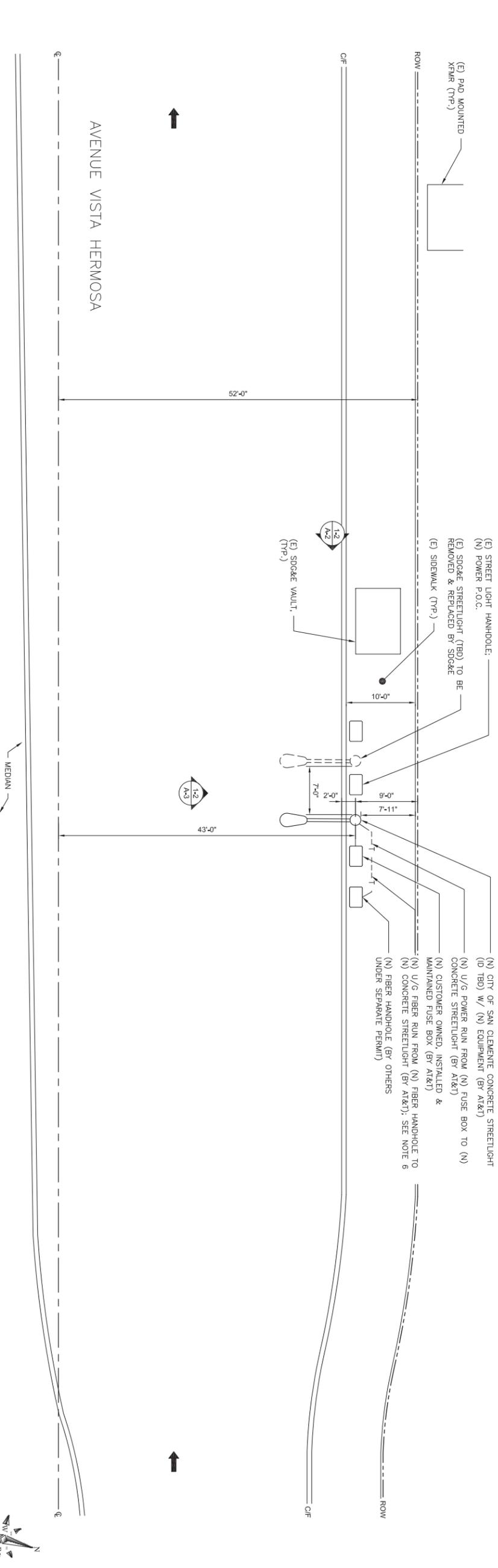
- 1. TURN LEFT ONTO EDINGER AVE
2. TURN LEFT ONTO DEL ANO AVE
3. TAKE RIGHT MERGE ONTO EAST 11A FOR R/S
5. TAKE EXIT 77 FOR AVENIDA VISTA HERMOSA
6. TURN LEFT ONTO AVENIDA VISTA HERMOSA
7. MAKE A U-TURN AT SPORTS PARK
DESTINATION WILL BE ON THE RIGHT.
802 1/3 AVE, VISTA HERMOSA CS SAN CLEMENTE, CA 92673



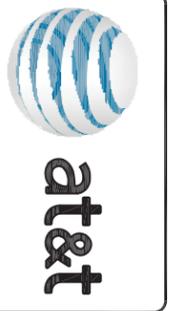
- NOTE: DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY. CHECK FOR REDUCTION OF ENLARGEMENT FROM ORIGINAL PLANS.
- UTILITY DESIGN & RUNS ARE PRELIMINARY. PENDING FINAL DESIGN FROM UTILITY PROVIDERS.
  - CONTRACTORS TO VERIFY SUB STRUCTURE LOCATIONS PRIOR TO ANY EXCAVATION. ALL CONDUCTORS WIRE & CONDUIT SHALL BE INSTALLED IN A NEAT 7 TIE BY FASHION. ALL EXCESS WIRE SLACK IS TO BE REMOVED & HIDDEN AS MUCH AS POSSIBLE.
  - ALL NEWLY INSTALLED EQUIPMENT SHALL BE PAINTED TO MATCH EXISTING POLE, & OR SURROUNDINGS UNLESS PROHIBITED PER MANUFACTURER.
  - NEW FIBER CONDUIT TO BE STUBBED OUT OF NEW POLE FOOTING BY APPROX. 2'-0".



**SITE PLAN**



**ENLARGED SITE PLAN**



**ERICSSON**

330 COMMERCE, STE. 200  
IRVINE, CA 92602

**MSQUARE WIRELESS**

1987 CALLE AVANZADO  
SAN CLEMENTE CA 92673 (949) 391-5824

DRAWN BY: DGM  
CHECKED BY: MM

REV	DATE	DESCRIPTION
C	09/21/18	100% CONSTRUCTION
B	05/31/18	100% CONSTRUCTION
A	03/08/18	90% CONSTRUCTION



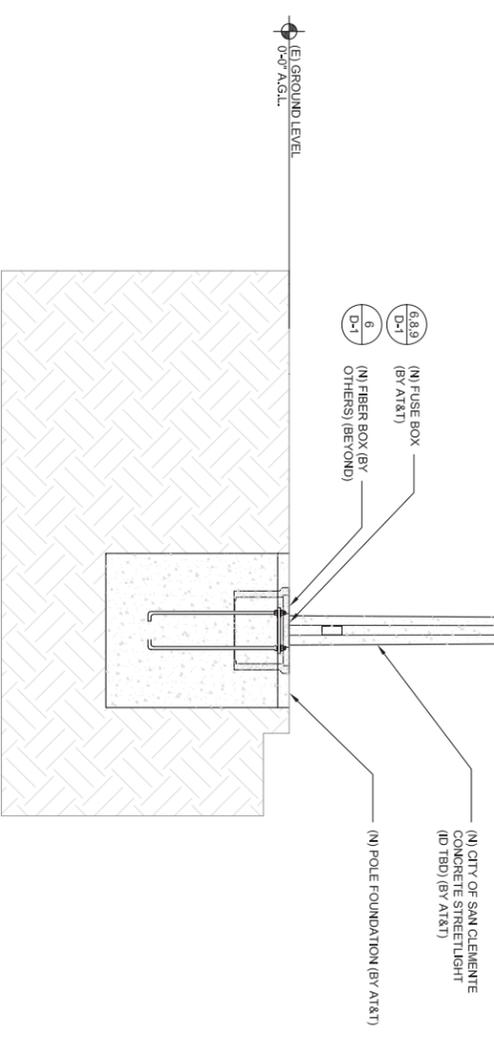
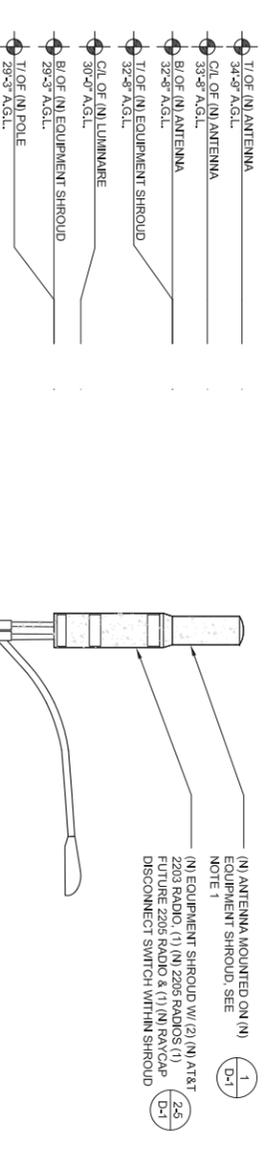
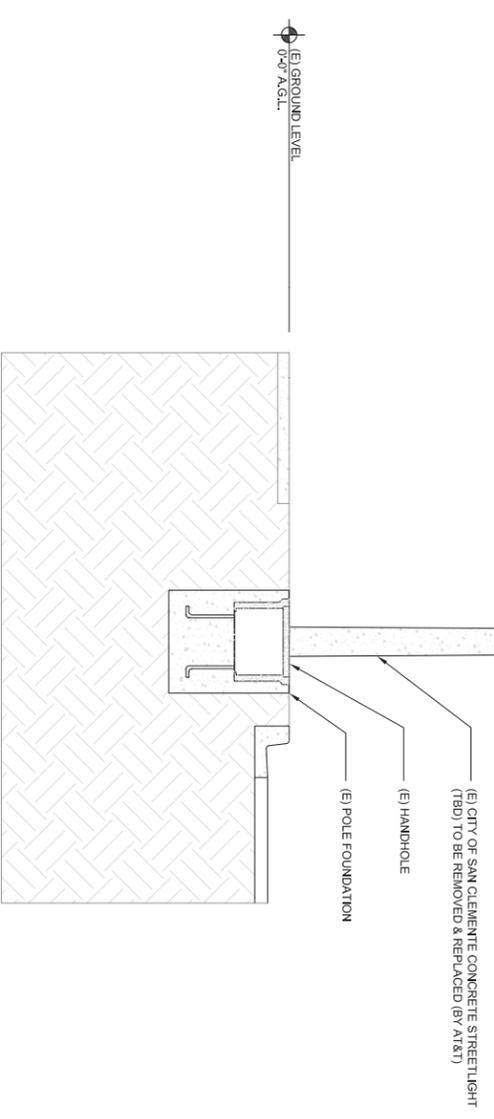
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE ID: DANAP 001  
802 1/3 AVE. VISTA HERMOSA CS  
SAN CLEMENTE, CA. 92673

SHEET TITLE  
**SITE PLAN**

SHEET NUMBER  
**A-1**

NOTES:  
1. ANTENNA AND SHROUD TO BE PAINTED TO MATCH TEXTURE AND COLOR OF NEW POLE.



DRAWN BY: DGM  
CHECKED BY: MM

REV	DATE	DESCRIPTION
C	09/21/18	REVISION
B	05/31/18	100% CONSTRUCTION
A	03/08/18	90% CONSTRUCTION

**M SQUARE WIRELESS**  
1387 CALLE AVANZADO  
SAN CLEMENTE CA 92673 (949) 591-5824

**ERICSSON**  
330 COMMERCE, STE. 200  
IRVINE, CA 92602

**at&t**

REGISTERED PROFESSIONAL ENGINEER  
LOYAL A. WHARTON  
C50547  
CIVIL  
STATE OF CALIFORNIA

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE ID: DANAP 001  
802 1/3 AVE. VISTA HERMOSA CS  
SAN CLEMENTE, CA. 92673

SHEET TITLE  
ELEVATIONS

SHEET NUMBER  
A-2

EXISTING SOUTHWEST ELEVATION

24"x36" SCALE: 3/8" = 1'-0"  
11"x17" SCALE: 3/16" = 1'-0"



2 NEW SOUTHWEST ELEVATION

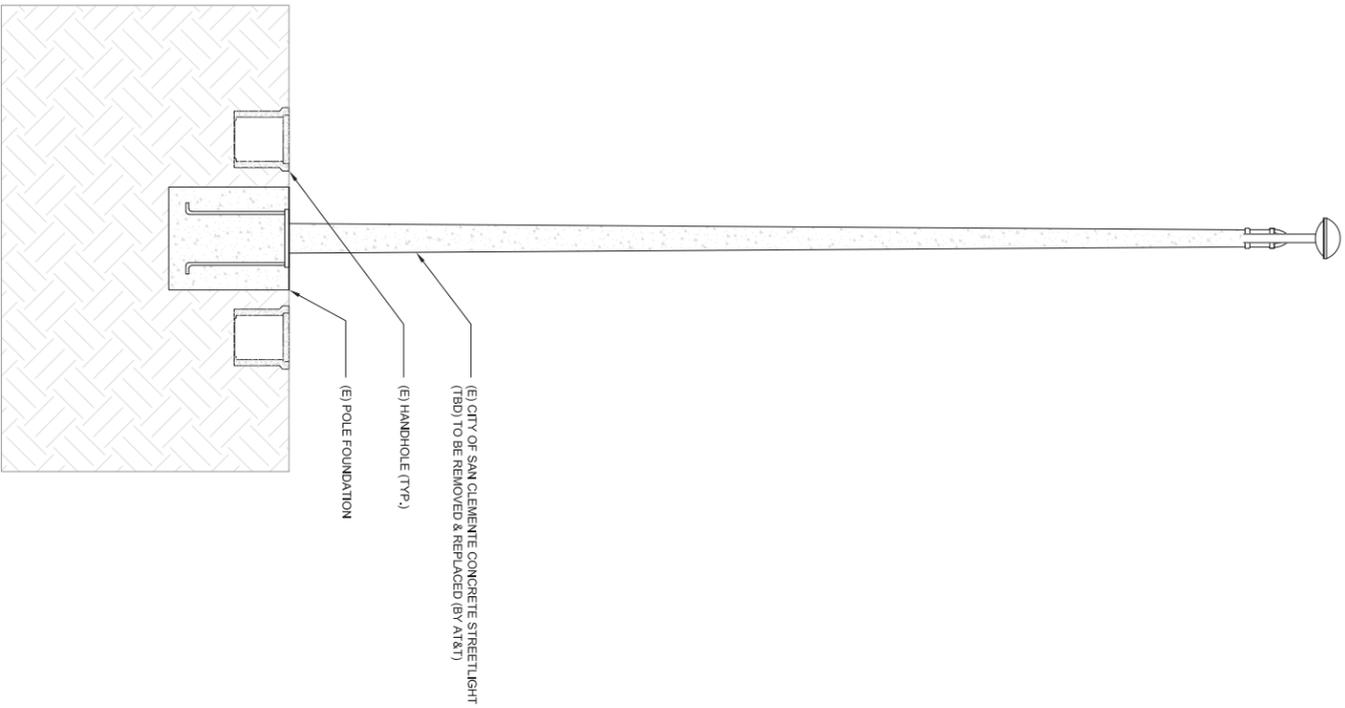
24"x36" SCALE: 3/8" = 1'-0"  
11"x17" SCALE: 3/16" = 1'-0"



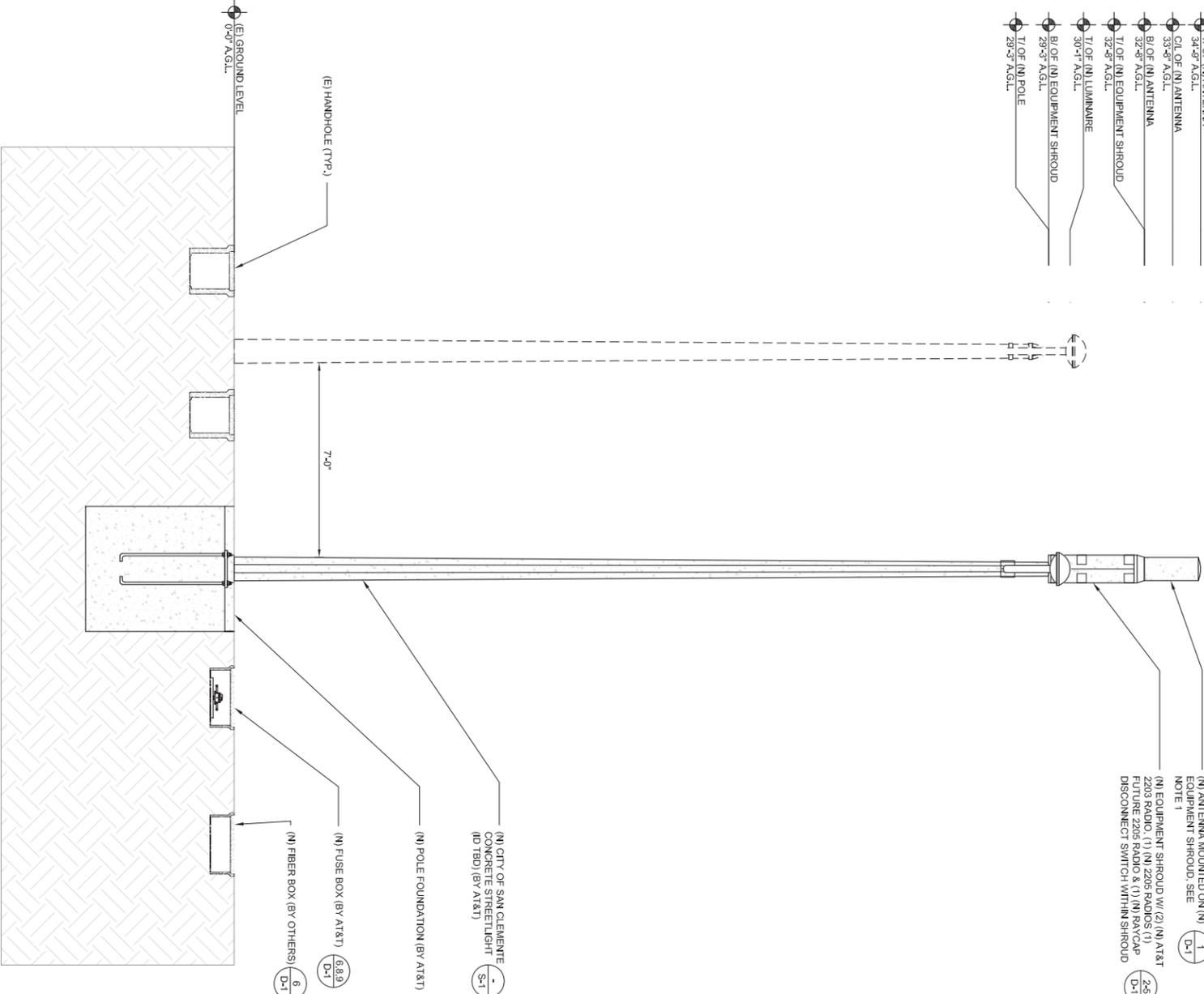
1

NOTES:  
 1. ANTENNA AND SHROUD TO BE PAINTED TO MATCH TEXTURE AND COLOR OF NEW POLE.

↑ T/OF (E) LUMINAIRE  
 30'-5" A.G.L.  
 ↑ T/OF (E) POLE  
 28'-7" A.G.L.



↑ T/OF (N) ANTENNA  
 34'-5" A.G.L.  
 ↑ O/L OF (N) ANTENNA  
 33'-4" A.G.L.  
 ↑ B/OE (N) ANTENNA  
 32'-8" A.G.L.  
 ↑ T/OE (N) EQUIPMENT SHROUD  
 32'-8" A.G.L.  
 ↑ T/OE (N) LUMINAIRE  
 30'-1" A.G.L.  
 ↑ B/OE (N) EQUIPMENT SHROUD  
 29'-5" A.G.L.  
 ↑ T/OE (N) POLE  
 29'-3" A.G.L.



EXISTING SOUTHEAST ELEVATION

24"x36" SCALE: 3/8" = 1'-0"  
 11"x17" SCALE: 3/16" = 1'-0"

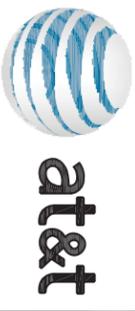


2 NEW SOUTHEAST ELEVATION

24"x36" SCALE: 3/8" = 1'-0"  
 11"x17" SCALE: 3/16" = 1'-0"



1



**ERICSSON**  
 330 COMMERCE, STE. 200  
 IRVINE, CA 92602

**M SQUARE WIRELESS**  
 1387 CALLE AVANZADO  
 SAN CLEMENTE CA 92673 (949) 391-9824

DRAWN BY: DGM  
 CHECKED BY: MM

REV	DATE	DESCRIPTION
C	REVISION	08/21/18
B	05/31/18	100% CONSTRUCTION
A	03/08/18	90% CONSTRUCTION

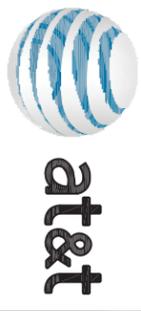
REGISTERED PROFESSIONAL ENGINEER  
 LOYAL A. WHARTON  
 CIVIL  
 STATE OF CALIFORNIA  
 C50547

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE ID: DANAP 001  
 802 1/3 AVE. VISTA HERMOSA CS  
 SAN CLEMENTE, CA. 92673

SHEET TITLE  
**ELEVATIONS**

SHEET NUMBER  
**A-3**



**ERICSSON**  
 330 COMMERCE, STE. 200  
 IRVINE, CA 92602

**M SQUARE WIRELESS**  
 1387 CALLE AVANZADO  
 SAN CLEMENTE CA 92673 (949) 391-5824

DRAWN BY: DGM  
 CHECKED BY: MM

REV	DATE	DESCRIPTION
C	09/21/18	REVISION
B	05/31/18	100% CONSTRUCTION
A	03/08/18	90% CONSTRUCTION



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE ID: DANAP 001  
 802 1/3 AVE. VISTA HERMOSA CS  
 SAN CLEMENTE, CA. 92673

SHEET TITLE  
**SITE IMAGE**

SHEET NUMBER  
**A-4**



NEW SITE LOCATION LOOKING NORTHWEST

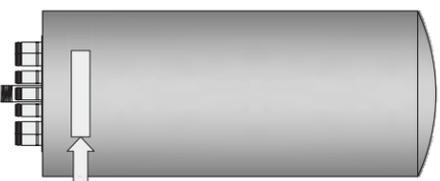
AVAILABLE FROM EXCEL SIGN AND DECAL:

http://www.weneedsigns.com/home.php?cat+1135 AND CLICK ON AT&T

PH: 510-651-0445

N01-DC-16 1"X6" NOTICE DECAL

"For 1 Foot Distance" VINYL DECAL WITH ADHESIVE BACKING



Place 3 NOTICE sticker at the bottom of the front of the radome of each antenna.



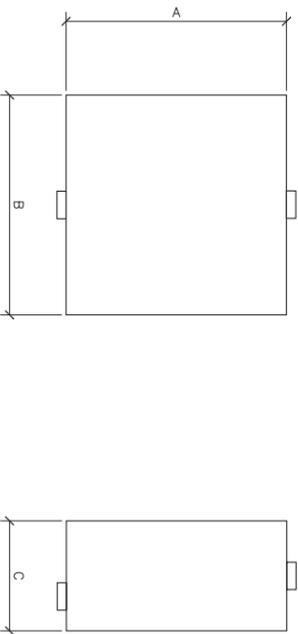
# NOTICE

RF energy emitted by this device may exceed the FCC's general public exposure limits. Stay at least 1 foot away from the device. Call 800-638-2822 for help if you need access within 1 foot

## OMNI ANTENNA DISCLAIMER LABEL

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

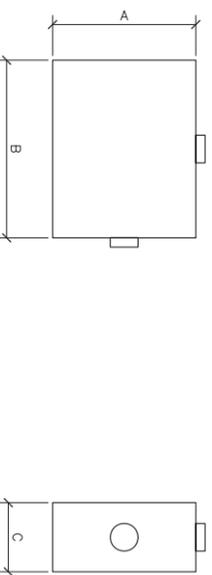
ELECTROMATE	
HINGED 36" ENCLOSURE	
DIMENSIONS:	
A	12"
B	12"
C	6"



## SDG&E UN-METERED FUSED PANEL

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

SQUARE-D HINGED 36" ENCLOSURE # D221NRB	
DIMENSIONS:	
A	7.75"
B	9.63"
C	3.75"

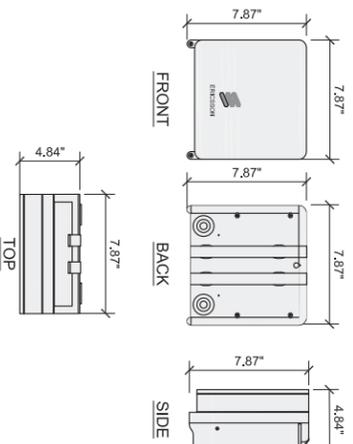


## AT&T MOBILITY FUSED DISCONNECT

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

## ERICSSON - RADIO 2205

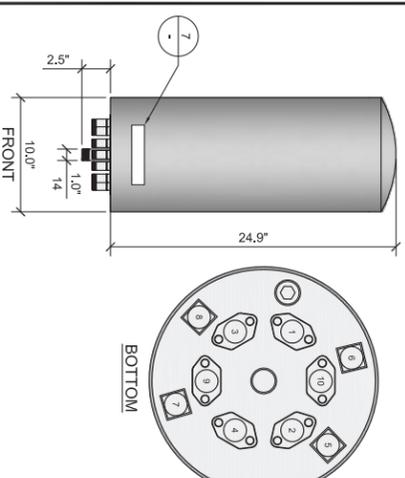
24"x36" SCALE: NTS  
11"x17" SCALE: NTS



ERICSSON - RADIO 2205	
MECHANICAL SPECIFICATIONS	
DIMENSIONS (WxDxH)	7.87" x 4.43" x 7.87" INCLUDING MOUNTING BRACKET AND ESTHETIC FRONT COVER
VOLUME AND WEIGHT	4 LITRES AND < 4.9g (0.22 lb)
MOUNTING	WALL AND POLE MOUNT
INTERFACE SPECIFICATIONS:	
ANTENNA PORTS	2 x 4.5-10F (1)
OPTICAL INDICATORS:	2 x 2.56/10 GHz (EXCHANGEABLE SFP MODULES)
EXTERNAL ALARM	2
FIELD GROUND:	1
ELECTRICAL SPECIFICATIONS:	
POWER SUPPLY:	48VDC OR 100-250VAC
MAX HEAT DISSIPATION:	97 WATTS MAX
MINIMUM AC FUSE RATING:	8 AMP

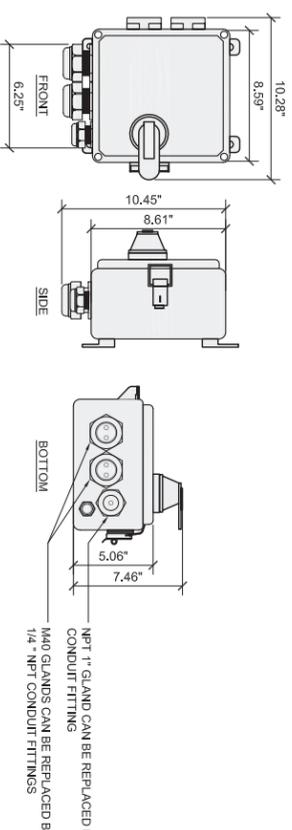
## GALTRONICS OMNI ANTENNA

24"x36" SCALE: NTS  
11"x17" SCALE: NTS



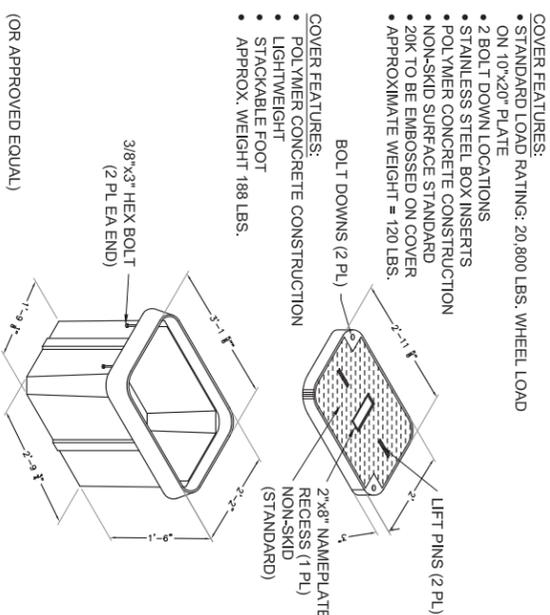
GALTRONICS G0241048621 FIBER/OPT OMNI/CASCADE ANTENNA	
MECHANICAL SPECIFICATIONS	
DIMENSIONS (HxD)	24.9 x 10 INCHES (643 x 259 mm)
WEIGHT EXCL. MOUNTING BRACKETS:	17.26lb (9.6lb)
NO. OF CONNECTORS	10 x 4.5-10 DIM FEMALE (1895-2500 MHz)
FREQUENCY BAND MHz	4 x 4.5-10 DIM FEMALE (1895-2500 MHz)
	2 x 4.5-10 DIM FEMALE (6150-5000 MHz)
MAX WIND SPEED:	150 mph
POORING MATERIAL:	ASA
SHIPPING DIMS (LxWxD):	37" x 19" x 19" (762x483x483mm)
GROSS SHIPPING WEIGHT:	28 lbs (12.8kg)
PART NO. G0241048621-111 (GRV1)	
PART NO. G0241048621-1611 (BRV1M)	
PART NO. G0241048621-1811 (CROWM)	

RAYCAP - DISCONNECT	
ELECTRICAL	
SURGE PROTECTION DEVICE (SPD) TYPE TO UL TYPE STRIKES/OMB 33-A	
NUMBER OF CIRCUITS PROTECTED: 4 TYPE PER UL 1449 4TH EDITION	
SPD TYPE 2 COMPONENT ASSEMBLY	
SURGE PROTECTION DEVICE (SPD) CLASS TO IEC 61643-11 CLASS II	
NOMINAL DISCHARGE CURRENT (IN PER UL 1449 4TH EDITION) 20 KA @20MS	
MAXIMUM DISCHARGE CURRENT (MAX) PER IEC 61643-11 @1KA @20MS	
VOLTAGE PROTECTION LEVEL (VPL) PER IEC 61643-11 150V	
VOLTAGE PROTECTION RATING (VPR) 20 KA @20	
PROTECTION CLASSIFICATION: LINE TO NEUTRAL, NEUTRAL TO GROUND	
PROTECTION CLASSIFICATION: MODE LINE TO NEUTRAL, NEUTRAL TO GROUND	
STANDARD LOAD RATING: 20,800 LBS. WHEEL LOAD	
ON 10"x20" PLATE	
2 BOLT DOWN LOCATIONS	
STAINLESS STEEL BOX INSERTS	
POLYMER CONCRETE CONSTRUCTION	
NON-SKID SURFACE STANDARD	
20K TO BE EMBOSSED ON COVER	
APPROXIMATE WEIGHT = 120 LBS.	
COVER FEATURES:	
POLYMER CONCRETE CONSTRUCTION	
LIGHTWEIGHT	
STACKABLE FOOT	
APPROX. WEIGHT 188 LBS.	
MECHANICAL	
CONNECTION TERMINAL:	
ENVIRONMENTAL INGRESS PROTECTION (IP) RATING:	
STORAGE TEMPERATURE:	
ENCLOSURE TYPE (CONFIGURATION):	
FIELD GROUND:	
POWER SUPPLY:	
MAX HEAT DISSIPATION:	
MINIMUM AC FUSE RATING:	
WEIGHT:	
COMPRESSION LUGS: #14 AVG (13 - 2MM) TERMINAL BLOCK #10x20 AND Ø 1/2" (12MM)	
NEMA 4X TO 48°C (101°F) TO 48°C	
UL 514 (LISTED) UL-W +128 x 250 (MM) #17 x 128 x 250 (MM) 225 LBS (102KG)	



## RAYCAP DISCONNECT

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

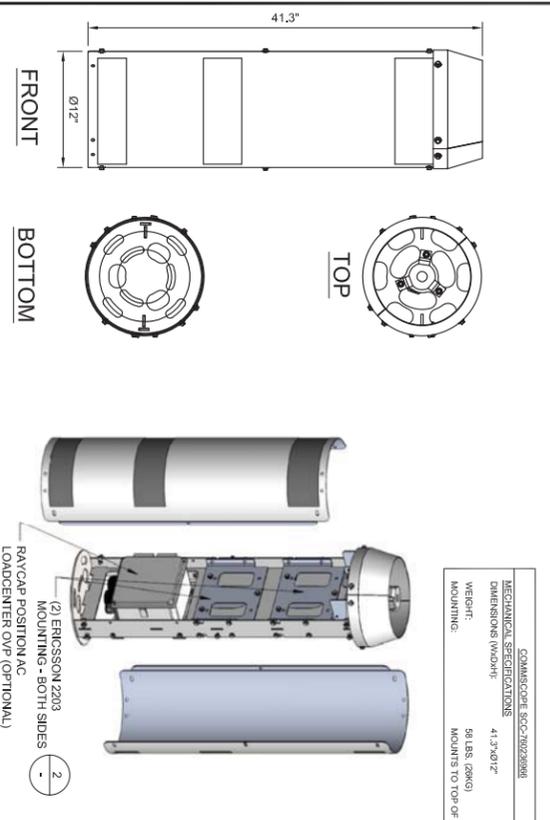


## HANDHOLE

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

## EQUIPMENT SHROUD

24"x36" SCALE: NTS  
11"x17" SCALE: NTS



330 COMMERCE, STE. 200  
IRVINE, CA 92602

1987 CALLE AVANZADO  
SAN CLEMENTE, CA 95073 (949) 381-5824

REGISTERED PROFESSIONAL ENGINEER  
LOYAL A. WHARTON  
C50547  
STATE OF CALIFORNIA  
CIVIL ENGINEER

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE ID: DANAP 001  
802 1/3 AVE. VISTA HERMOSA CS  
SAN CLEMENTE, CA. 92673

SHEET TITLE  
DETAILS

SHEET NUMBER  
**D-1**

REV	DATE	DESCRIPTION
A	03/08/18	90% CONSTRUCTION
B	05/31/18	100% CONSTRUCTION
C	08/21/18	

DRAWN BY: DGM  
CHECKED BY: MM



**ERICSSON**  
 330 COMMERCE, STE. 200  
 IRVINE, CA 92602

**M SQUARE WIRELESS**  
 1387 CALLE AVANZADO  
 SAN CLEMENTE CA 92673 (949) 391-0824

DRAWN BY: DGM  
 CHECKED BY: MM

REV	DATE	DESCRIPTION
C	09/21/18	100% CONSTRUCTION
B	05/31/18	90% CONSTRUCTION
A	03/08/18	

REGISTERED PROFESSIONAL ENGINEER  
 LOYAL A. WHARTON  
 CIVIL  
 STATE OF CALIFORNIA  
 C50547

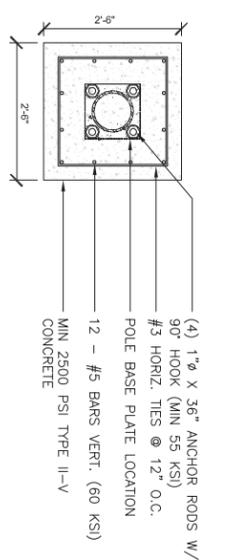
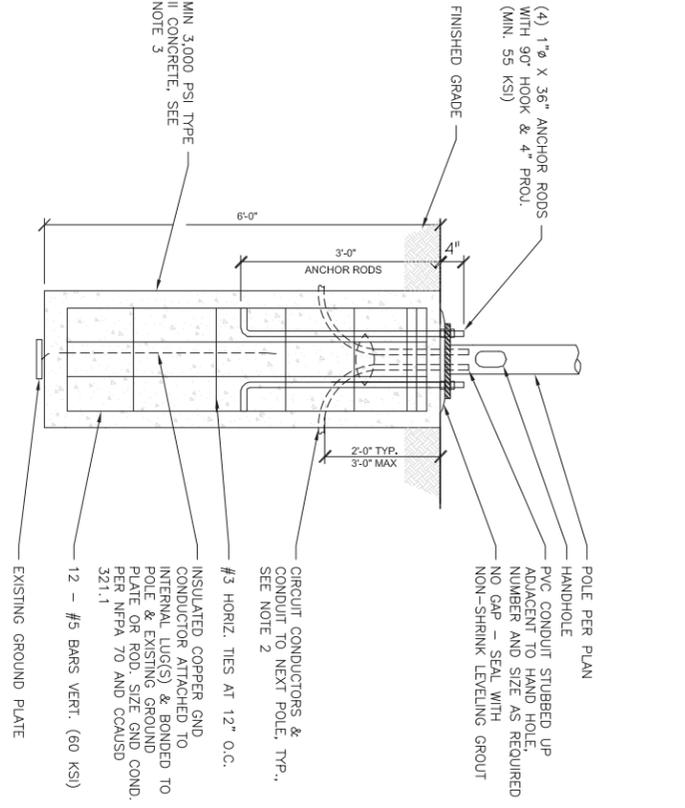
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE ID: DANAP 001  
 802 1/3 AVE. VISTA HERMOSA CS  
 SAN CLEMENTE, CA. 92673

SHEET TITLE  
**DETAILS**

SHEET NUMBER  
**D-2**

- NOTES:
- THIS INFORMATION MAY NOT CONTAIN ALL DETAILS REQUIRED FOR CONSTRUCTION. APPROPRIATE MODIFICATION MAY BE REQUIRED TO ENSURE SUITABILITY OF THESE DRAWINGS FOR THE SPECIFIC APPLICATION.
  - FOR FIBER CONDUIT, STUB OUT FROM FOUNDATION AWAY FROM STREET SIDE FOR FUTURE FIBER HANDHOLE INSTALLATION.
  - WHERE KNOWN HIGH SULFATE CONTENT EXISTS IN SOIL, USE TYPE V CEMENT.

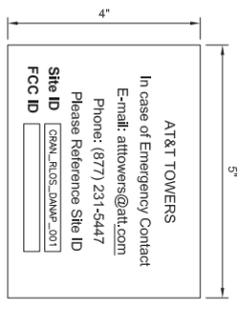


**3 NEW FOUNDATION**

24"x36" SCALE: NTS  
 11"x17" SCALE: NTS

**5 POLE MOUNTED SIGNS**

24"x36" SCALE: NTS  
 11"x17" SCALE: NTS



OWNER / OPERATOR NOTE:  
 SITE ID LABEL TO BE AFFIXED AT OR NEAR THE POINT OF POWER CONNECTION WITH TZE5241 LABELING TAPE OR EQUIVALENT BLACK ON WHITE LABELING TAPE OF AT LEAST 18mm WIDTH WITH EXTRA-STRENGTH ADHESIVE. USE ANY COMPATIBLE P-TOUCH LABEL MAKER. TEXT SHOULD BE PRINTED IN ALL CAPS WITH A MINIMUM HEIGHT OF 1/2".

**EMERGENCY CONTACT SIGN**



ANTENNA SIGNAGE:  
 ON WOOD POLES - SIGN ON ALUMINUM WITH SS SCREW TO THE POLE  
 ON METAL POLES - ADHESIVE VINYL OR PLACARD STRAPPED WITH SS TIES  
 ON CONCRETE / COMPOSITE - PLACARD STRAPPED WITH SS TIES  
 SIGN PLACEMENT:  
 AFFIX TO THE STRUCTURE 3'-4' BELOW THE COMMERCIAL RF ANTENNA(S)  
 SIZE APPROX. 8" x 5"

**ANTENNA SIGNAGE**

**1 TRENCH DETAIL**

24"x36" SCALE: NTS  
 11"x17" SCALE: NTS

**6 NOT USED**

24"x36" SCALE: NTS  
 11"x17" SCALE: NTS

**5 NOT USED**

24"x36" SCALE: NTS  
 11"x17" SCALE: NTS

**4 NOT USED**

24"x36" SCALE: NTS  
 11"x17" SCALE: NTS

**3 NOT USED**

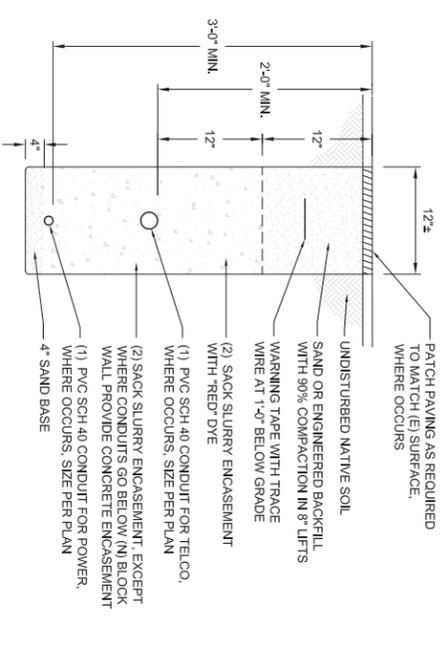
24"x36" SCALE: NTS  
 11"x17" SCALE: NTS

**2 NOT USED**

24"x36" SCALE: NTS  
 11"x17" SCALE: NTS

**1 NOT USED**

24"x36" SCALE: NTS  
 11"x17" SCALE: NTS



**6 NOT USED**

24"x36" SCALE: NTS  
 11"x17" SCALE: NTS

**5 NOT USED**

24"x36" SCALE: NTS  
 11"x17" SCALE: NTS

**4 TRENCH DETAIL**

24"x36" SCALE: NTS  
 11"x17" SCALE: NTS

**3 NOT USED**

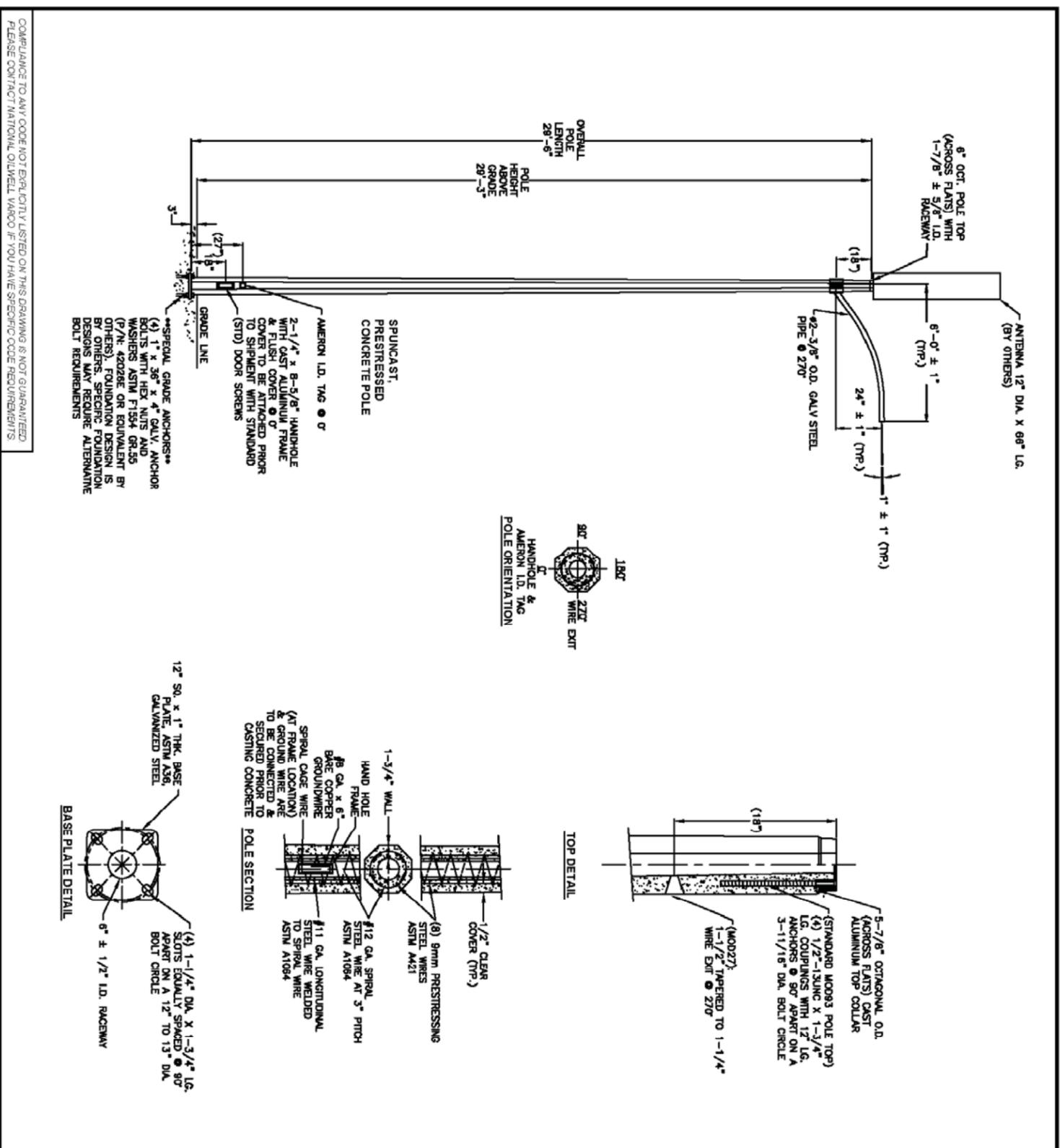
24"x36" SCALE: NTS  
 11"x17" SCALE: NTS

**2 NOT USED**

24"x36" SCALE: NTS  
 11"x17" SCALE: NTS

**1 NOT USED**

24"x36" SCALE: NTS  
 11"x17" SCALE: NTS



REV.	DATE	DESCRIPTION	DRN.	APPR.

"F" LEVEL CONFIG CODES		"P" LEVEL CONFIG CODES	
OPTION CLASS	ENTRY	OPTION CLASS	ENTRY
COATING	N	MIX	B1
HH COVER	45209	FINISH	3
DOOR SCRS	STD	BASEPLATE	62470E
MISC. MOD	MODTE	COLLAR	65832E
		POLE TOP CON.	MOD93
		CAST-IN	MOD27
		STRUCT MOD	MODD31
			NOTE #9

POLE DESIGN-NATION	POLE HEIGHT ABOVE GRADE	OVERALL POLE LENGTH	BOLT CIRCLE	BASE O.D.	ULTIMATE G.L. MOMENT (ft.-lbs.)	POLE WEIGHT (lbs.)
CSOX09	29'-3"	29'-6"	12-1/2"	9-7/16"	34,800	1250

**NOTES:**

- MIX (813N): LA BLACK & WHITE EXPOSED AGGREGATE FINISH WITH NO COATING.
- ASTM C-150 TYPE III GRAY CEMENT.
- f<sub>c</sub> @ 28 DAYS=7,000 PSI, USING SPUN CYLINDER TEST.
- f<sub>c</sub> @ 28 DAYS=5,000 PSI, USING ASTM C-31 CYLINDER TEST.
- POLES MANUFACTURED TO ASTM C-1089-13 SPECIFICATIONS.
- PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS.
- PRESTRESSED WITH (8) 9 MM DIA. A-421 PRESTRESSING TENDONS.
- MODFE: POLE BOTTOM PREPARATION FOR FREEZING OR CORROSIVE COASTAL ENVIRONMENTS: SEE DOCUMENTATION.
- MODDC: CORROSION INHIBITOR ADMIXTURE MODIFICATION.
- THE POLE DEPICTED ON THIS DRAWING IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY (1) TOP MOUNTED ANTENNA (NOT TO EXCEED 6.1 SQ. FT. EPA, 115 LBS) & (1) SINGLE CLAMP ON ARM (NOT TO EXCEED 6' LENGTH, 2.5 SQ. FT. EPA, 35 POUNDS) WITH THE ARM HOLDING A DOWNWARD FACING AREA OR PENDANT LUMINAIRE (NOT TO EXCEED 2.5 SQ. FT. EPA, 50 POUNDS). THE POLE DEPICTED IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY THE LMA, LUMINAIRE & ANTENNA AS DESIGNED PER THE ASCE 7-10 USING A 110 MPH WIND ZONE (3-SECOND GUSTS), RISK CATEGORY 2, NON-BUILDING STRUCTURE, EXPOSURE C, SITE CLASS D, WITH SURFACE ROUGHNESS CATEGORY C, WITH NO HILL NOR ESCARPMENT CONSIDERED. SEISMIC IS PER ASCE 7-10, CALIFORNIA BUILDING CODE USING A MAXIMUM S<sub>s</sub> = 1.549 & S<sub>1</sub> = 0.578. PLEASE CONTACT & ADVISE MANUFACTURER IF INTENDED LOADING EXCEEDS THESE VALUES.

**APPROVED BY** \_\_\_\_\_ **DATE** \_\_\_\_\_

**M SQUARED WIRELESS**  
**HUNTINGTON BEACH, CA**  
**CBOX09 POLE WITH 6' ARM ASSEMBLY**

THIS DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO M SQUARED WIRELESS. IT SHALL NOT BE REPRODUCED, USED OR DISCLOSED TO ANYONE WITHOUT THE PRIOR WRITTEN PERMISSION OF M SQUARED WIRELESS.

**Ammeron** **SCALE:** N.T.S. **DWG. NO.** 1812-022 **REV** -

**DRAWN:** A.F. **DATE:** 12/12/2018

**ERICSSON**  
 330 COMMERCE, STE. 200  
 IRVINE, CA 92602

**at&t**

**M SQUARED WIRELESS**  
 1387 CALLE AVANZADO  
 SAN CLEMENTE CA 92673 (949) 391-6824

**REGISTERED PROFESSIONAL ENGINEER**  
 LOYAL A. WHARTON  
 CIVIL ENGINEER  
 STATE OF CALIFORNIA  
 C50547

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**REVISIONS:**

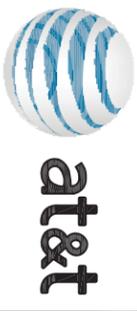
REV	DATE	DESCRIPTION
A	03/08/18	90% CONSTRUCTION
B	05/31/18	100% CONSTRUCTION
C	09/21/18	

**SHEET TITLE**  
POLE DETAILS

**SHEET NUMBER**  
S-1

**SITE ID:** DANAP 001  
**802 1/3 AVE. VISTA HERMOSA CS**  
**SAN CLEMENTE, CA. 92673**

COMPLIANCE TO ANY CODE NOT EXPLICITLY LISTED ON THIS DRAWING IS NOT GUARANTEED. PLEASE CONTACT NATIONAL OILWELL VARCO IF YOU HAVE SPECIFIC CODE REQUIREMENTS.



DRAWN BY: DGM  
CHECKED BY: MAM

REV	DATE	DESCRIPTION
C	09/21/18	100% CONSTRUCTION
B	05/31/18	90% CONSTRUCTION
A	03/08/18	



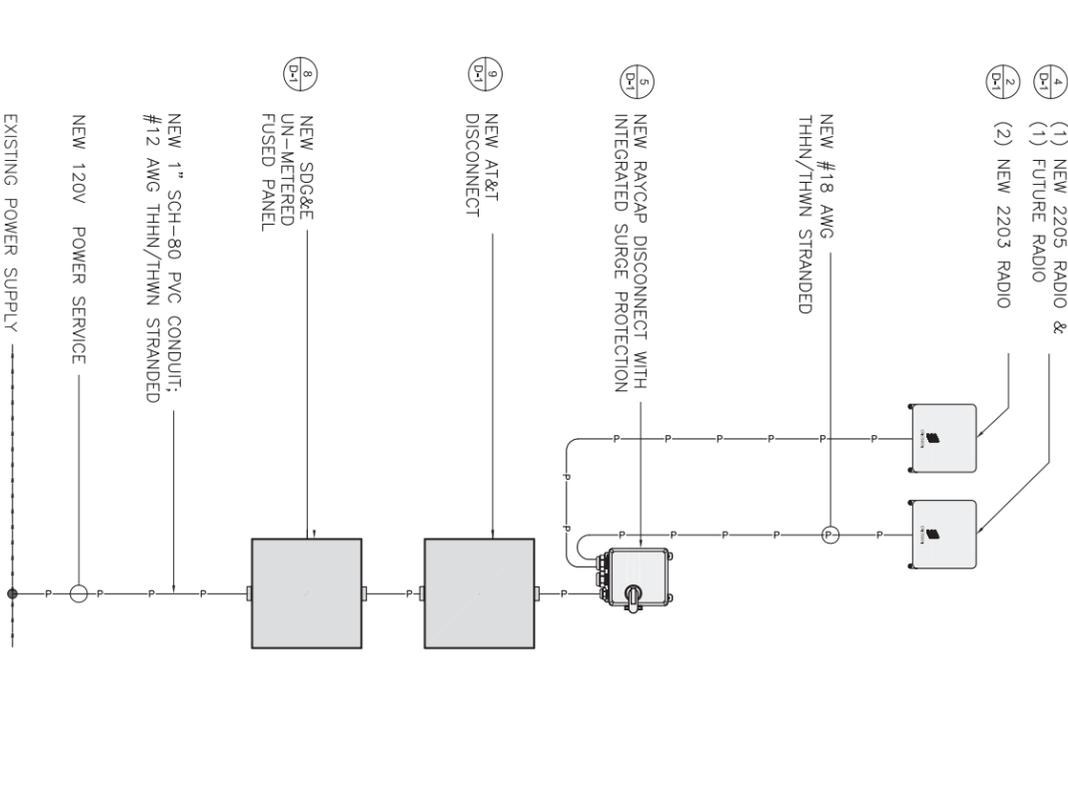
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE ID: DANAP 001  
802 1/3 AVE. VISTA HERMOSA CS  
SAN CLEMENTE, CA, 92673

SHEET TITLE  
ELECTRICAL DETAILS

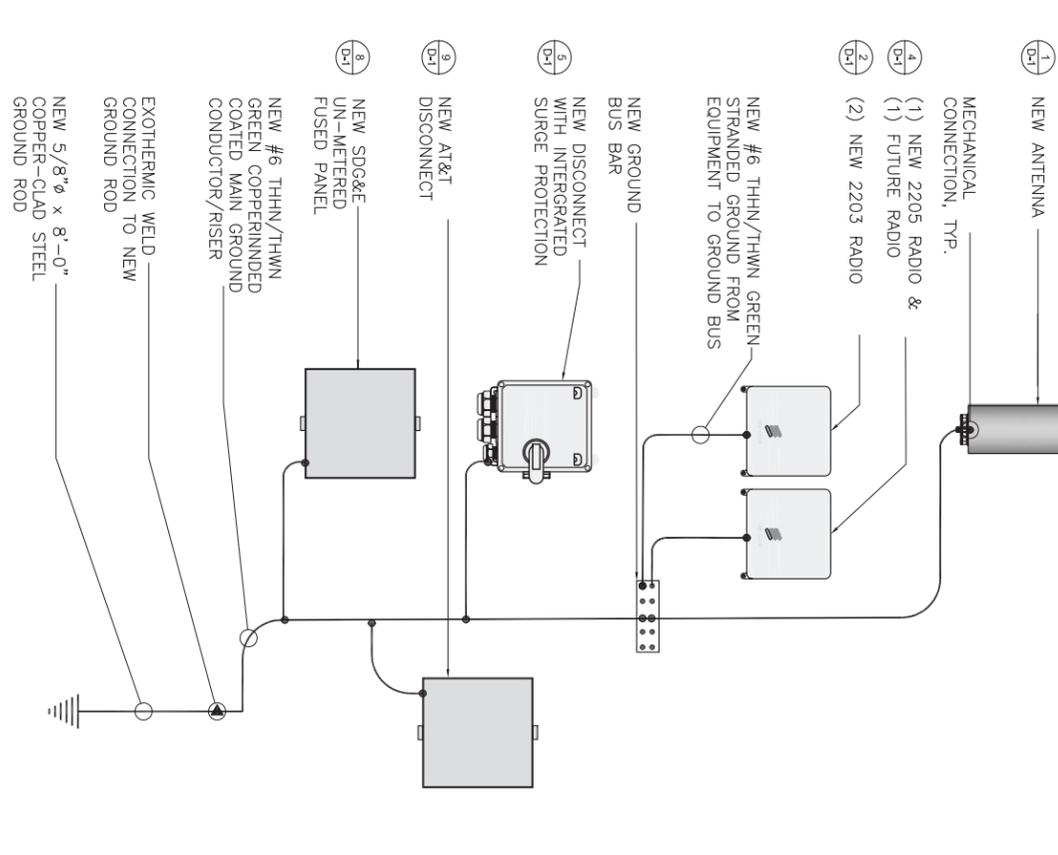
SHEET NUMBER  
E-1

NOTE:  
DESIGN AND RUNS ARE PRELIMINARY. PENDING FINAL DESIGN FROM UTILITY PROVIDERS



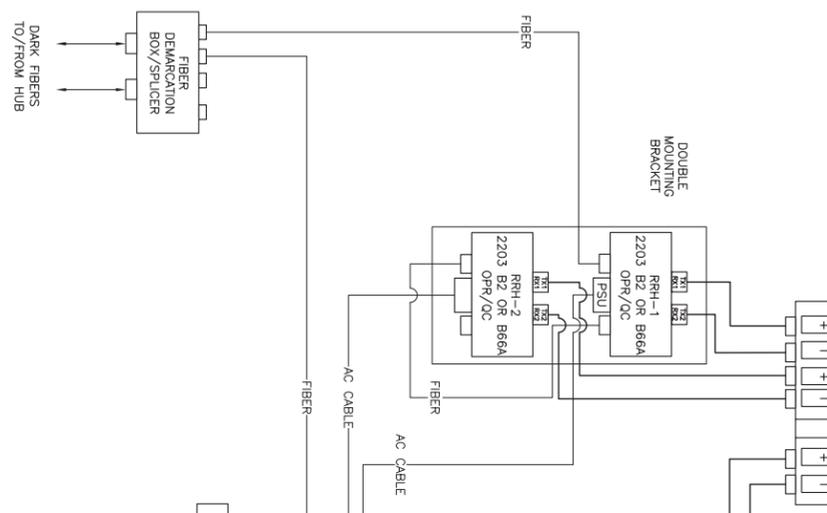
3 SINGLE LINE DIAGRAM 24"x36" SCALE: NTS 11"x17" SCALE: NTS

NOTE:  
ALL GROUND CONDUCTORS TO BE #6 THHN/THWN GREEN STRANDED COPPER UNLESS OTHERWISE NOTED OR REQUIRED BY EQUIPMENT MANUFACTURER.



5 GROUNDING SCHEMATIC 24"x36" SCALE: NTS 11"x17" SCALE: NTS

- AT&T
- AWS/PCS/WCS
- 5GHz
- +45
- -45
- +45
- -45
- RRH-1 AND RRH-2 ARE SAME BAND.
- EITHER B2 OR B66A
- RRH-3: (LAA), 21ZR
- USE OF DOUBLE MOUNTING BRACKETS
- CPRI CASCADING RRH-1/RRH-2

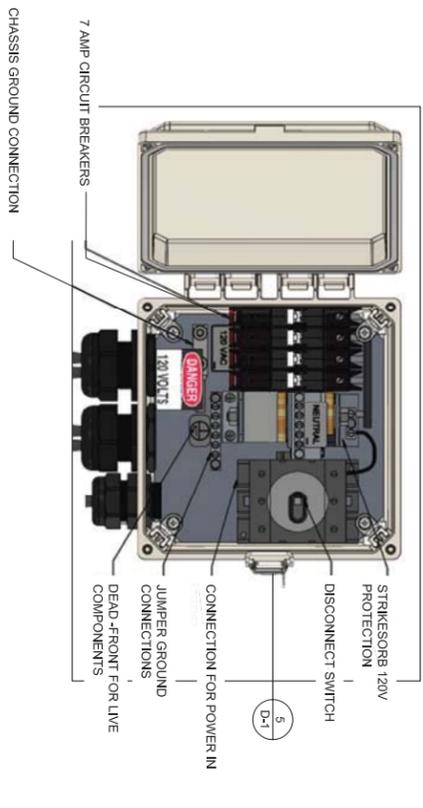


5 PICO PLUMBING DIAGRAM 24"x36" SCALE: NTS 11"x17" SCALE: NTS

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS

BREAKER SCHEDULE 24"x36" SCALE: NTS 11"x17" SCALE: NTS



NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS