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**PLANNING DIVISION**

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**ACTION DATE:** November 7, 2019

**TO:** Planning Commission

**APPLICANT:** SureSite Consulting Group for Sprint PCS Assets, LLC  
3659 Green Road, #214  
Cleveland, OH 44122

**CASE NO.:** WIRE-01640-2019

**LOCATION:** 28030 Dorothy Drive (A.I.N. 2061-013-037)

**REQUEST:** Request for approval of a Wireless Telecommunications Facility/Conditional Use Permit to modify an existing wireless telecommunications facility by removing, replacing, and adding antennas and associated equipment on an office building including revising the antennas' screening design; and to make a finding of exemption under the California Environmental Quality Act (CEQA).

**ENVIRONMENTAL DETERMINATION:** Categorically Exempt under CEQA per CEQA Guidelines Section 15303

**RECOMMENDATION:** Staff recommends the Planning Commission approve Wireless Telecommunications Facility/Conditional Use Permit Case No. WIRE-01640-2019, subject to the conditions of approval in, and based on the findings of, the Draft Resolution.

**ZONING DESIGNATION:** Business Park- Office/Retail- Freeway Corridor (BP-OR-FC)

**GENERAL PLAN DESIGNATION:** BP-OR Business Park – Office Retail

## **I. PROJECT BACKGROUND AND DESCRIPTION**

SureSite Consulting Group, an authorized representative for Sprint PCS Assets, LLC, has applied for a Wireless Telecommunications Facilities Permit/Conditional Use Permit to replace the antennas at an existing wireless telecommunications facility installed on an office building located at 28030 Dorothy Drive. The three-story office building is located east of Palo Comado Canyon Drive, amongst other office buildings. The site is zoned Business Park-Office-Retail, and is located about 350 feet from the nearest residential use south of Agoura Road. Over the years, the City has approved three wireless telecommunications facilities and modifications to these facilities at this location. The facilities currently permitted at the site include the attachment of antennas on the walls or behind a parapet roof, the placement of equipment on the roof, as well as inside the building and on the ground floor in an equipment enclosure. The previous projects were submitted by LA Cellular (Case No. 95-CUP-005), Cox California PCS (Case No. 96-CUP-013), and Nextel (Case No. 00-CUP-013). More recently in 2012, PDC Corporation received a Planning Commission approval (Case No. 11-CUP-002) to upgrade the technology of the AT&T facility of eight (8) antennas in the same location of the office building plus four (4) additional antennas as well as equipment upgrades. In 2013, Sprint obtained an approval (Case No. 12-CUP-001) to replace four wall-mounted antennas with three (3) antennas with new screening, and replace (3) existing pieces of equipment. The screen was not installed per plan, but remained as installed originally. Today, only AT&T and Sprint remain as the operators at that location. It is unknown when the Nextel equipment was removed, but it was confirmed by Sprint that Nextel no longer operates at that location. A map showing all the approved and pending applications is attached to this report as Attachment 3.

The applicant proposes to replace three (3) wall-mounted, panel antennas, attach six (6) new panel antennas in their place along with three (3) new Remote Radio Head (RRHs) units adjacent to the antennas, and upgrade two (2) roof-mounted equipment cabinets with four (4) batteries in one and minor pieces of equipment in the other. The antennas will be installed similar to how they currently are, in two groupings although oriented into three sectors (separate locations on the building, each with a directional antenna situated toward a specific coverage area) of emission, one at the northeast and the other two at the southwest corners of the building. In both groupings, the antennas would be screened with a radio frequency (RF) emission-transparent material similar to the stuccoed wall the antennas would be attached to. The screen would be wider than the existing one on the building. The equipment is roof-mounted and the additional accessory equipment would be mounted on the interior side of the parapet wall.

The proposed project did not qualify for an administrative approval under Section 6409(a) of the Middle Class Tax and Job Creation Act of 2012 (the Act). The Act followed the Wireless Telecommunications Act of 1996, which further defines how municipal governments review modifications to existing facilities. Section 6409(a) limits discretionary approval powers based on established thresholds for existing base stations. In this case, the screen designed to conceal the wall-mounted antennas was not constructed according to the approved plans, and therefore, a CUP is required per

the City's Wireless Telecommunications Ordinance (Ordinance), which must be considered by the Planning Commission.

## **II. STAFF ANALYSIS**

The primary function of the existing three-story building is general office use. The applicant is proposing to replace antennas and related equipment affixed to the walls of the building in order to serve three sectors and place the ancillary equipment in proximity to the antennas and on the roof top in a permitted area leased to Sprint. The screen which was originally constructed around each individual antennas is being redesigned to encapsulate the two (2) new antennas on the northeast side of the building and the four (4) new antennas on the southwest side of the building per the approved plans. This approach was the preferred approach of the Planning Commission at the time, and as such the applicant worked with the applicant to include in the plans an adequate screening method in compliance with the Planning Commission's direction and the Ordinance's camouflaging requirements. The particular design was selected so the screen would appear as part of the building's structure.

Currently, the facility consists of three (3) antennas attached to the exterior of the building on two sides, with two (2) on the west elevation and one (1) other one on the east elevation. The antennas on the west elevation are eight (8) feet apart from each other to emit radio frequencies in two separate sectors, Sectors A and C with azimuth directions of 300' and 250' respectively. Sector B is served by one antenna oriented with a 110 azimuth direction. Each existing antenna was screened separately from each other whereas the Planning Commission approved plans required the clusters of antennas to be screened by one single wider screen.

Included in this application is a request to install two (2) 66.7 inches tall new antennas next to two (2) new 25.6 inches tall antennas spread 5 feet 1 inch apart from each (two for each sector) in place of the existing antennas. This would require a new 18.5 foot long by 7.5 foot tall screen by 2.5 inches to 3.5 inches deep screen to cover all four new antennas. The screen would be as tall as the existing one. The screen is made of a radio frequency transparent material, which would be textured and painted to match the building facades. The RF emission-transparent material is required as a camouflaging solution in order to comply with Section 9661.5.B of the Municipal Code. The screen would wrap around the southwest corner of the building to conceal the antenna on the corner as previously constructed for that specific sector (Sector C). Staff requested that the antenna at the corner be moved away from the corner so that the screen would not have to wrap around, but per the applicant's Radio Frequency Engineer's requirements, the arrangement is the optimal position and direction for best signal transmission. As for the east elevation, the applicant proposes to install one of each type of antennas three (3) feet apart with a similar screen 6 feet wide, by 7.5 feet tall and 2.5 inches deep also textured and painted to match the building as tall as the existing one.

Both locations also use one (1) additional remote radio head units (RRH) for each sector in addition to two (2) existing RRHs. The units extend the coverage of the BTS

cabinet, which is connected via a fiber optic cable with grounding conduits in between. These units are installed behind the parapet wall. One existing BTS cabinet located in the center of the roof would receive additional components including one (1) rectifier unit, one (1) base band unit, one (1) cell site router and one (1) surge arrestor. The other cabinet would accommodate four (4) new batteries. The cabinets would remain in the same location in the approved lease area per the lease agreement. None of the equipment would be accessible to the public or visible from the street.

The following paragraphs describe the project's consistency with the design and development standards of the Ordinance (Section 9661.5(B)).

The Ordinance requires screening and camouflaging techniques in the placement of wireless telecommunications facilities to ensure the facilities are as visually inconspicuous as possible. In screening, the design must match the color, texture, materials, quality and style of the existing building so as to conceal the facility from surrounding properties and achieve community compatibility. As described above, the facilities in each of the three sectors would be adequately screened by a box painted and textured to resemble the existing building façade. The new screen would not interfere with architectural features nor would it add to the height of the building, but rather would add details to the otherwise plain façade. The new proposed components that support the antennas would be placed in existing equipment cabinets currently in the center of the roof away from the building edges, and would continue to be screened by the building parapet wall, which is consistent with the Ordinance. The proposal meets the intent to eliminate the visual impact of the new antennas as shown in the photo-simulations submitted by the applicant included in this report as Attachment 5.

The Ordinance also requires that the existing vegetation and buildings provide the greatest amount of screening to minimize potential visual impacts. Although some tall trees exist on the perimeter of the property, they are not sufficient to screen the proposed facilities, but the proposed building screen boxes design and location on the facades make it such that they are in keeping with the building architectural style and colors. They serve to shield the antennas from view and become an integral part of the structure.

The applicant states that the new facility would not generate noise that could potentially impact the public outside and the work environment inside the building. No backup generator is proposed. The project is conditioned not to be audible at the property line of any residential property and also not to exceed an exterior noise level of fifty-five (55) dBA at the facility's property line. Based on the information provided, the project is consistent with Section 9661.5(B)(11) of the Ordinance.

#### General Plan Consistency

Staff finds the project will be consistent with the following applicable General Plan goals and policies:

*Goal U-6: Telecommunication System.* Quality communication systems that meet the demands of new and existing developments in the City.

The project will provide quality communications systems to meet the demands of new and existing developments in the City by upgrading the technology of the existing facility. The upgrade serves to bring contemporary services such as 4G and LTE (Long Term Evolution) to the community, while decreasing the overall number of Sprint antennas at this location.

- Policy U-6.1: Access and Availability. Work with service providers to ensure access to and availability of a wide range of state-of-the-art telecommunications systems and services for households, businesses and institutions throughout the City.

The project will provide state-of-the art wireless telecommunication services. The project will continue to provide Sprint 4G or LTE coverage to the community.

- Policy U-6.2: Design and Siting of Facilities. Require that the installation of telecommunications infrastructure, such as cellular sites and towers, be designed in a manner to minimize visual impacts on the surrounding environment and neighborhood, and to be as unobtrusive as possible.

The proposed individual panel antennas will be completely camouflaged. Moreover, the accessory equipment will be on top of the roof behind a parapet wall and will not be visible from distant views given the height of the building.

#### Conditional Use Permit

The project is consistent with the required CUP findings, including consistency with the Zoning Ordinance. The use is permitted in the BP-OR-FC zone and compatible with the existing use of an office building, and the existing wireless facility already on site. The modifications to the facility will continue to be screened from public view and so the use would continue to be compatible with the surrounding area. There are only two providers left out of the three originally approved and the facilities are well integrated in the buildings. The modifications to the facility will continue to increase the efficiency of wireless telecommunication for the community, while being operated according to the Federal Communication Commission standards. A complete discussion of the CUP findings is provided in Attachment 1.

#### Wireless Telecommunication Facilities

In addition to the CUP findings, the Planning Commission must make findings specifically related to wireless telecommunications facilities, which are summarized below. A complete discussion of the findings is provided in Attachment 1.

The proposed facility has been designed and located in compliance with all applicable provisions of the Zoning Ordinance Section 9661 et seq (Wireless Telecommunications Facilities). The facility remains a secondary use to the office use, and is permitted in the BP-OR zone with a CUP. The service carrier, and the applicant on behalf of the carrier, have demonstrated that they are permitted to install and operate such a facility.

The proposed modification of the existing facility has been designed and located to achieve compatibility with the community. The wireless telecommunications facility would be constructed behind a screen and behind a parapet wall and the equipment would remain in the same permitted lease area on top of the roof, all completely screened from public view. The facility is not expected to generate noise above the existing exterior noise level standard of fifty-five (55) dBA at three (3) feet from the noise source, as demonstrated by the facility since its original installation, and so would not be detrimental to the public health, safety, and welfare. Conditions have been incorporated into the project to ensure continued compliance with the maximum noise limit (Attachment 1, Exhibit A).

### Environmental Review

The project has been reviewed pursuant to the California Environmental Quality Act (CEQA), and has been determined to be categorically exempt from the CEQA Guidelines per Section 15303. This exemption includes the construction of accessory structures. No significant environmental impacts are expected from the development of this project. No exception to this determination applies as set forth in Section 15300.2 of the CEQA Guidelines, including, but not limited to, subsection (c), which relates to unusual circumstances that could have a significant effect on the environment.

### **III. RECOMMENDATION**

Staff recommends that, based on the findings of the attached resolution, the Planning Commission approve Wireless Telecommunications Facility/Conditional Use Permit Case No. WIRE-01640-2019, subject to conditions of approval.

### **IV. ATTACHMENTS**

1. Draft Resolution of Approval and Exhibit A, Conditions of Approval
2. Vicinity/Zoning Map
3. Approved and In Review Wireless Telecommunications Facilities Map
4. Reduced Copy of Plans
5. Photographs of the Existing Wireless Telecommunication Facility

**Case Planner:** Valerie Darbouze, Associate Planner

# **ATTACHMENT 1**

DRAFT RESOLUTION NO. 19-\_\_\_

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF AGOURA HILLS, CALIFORNIA, APPROVING WIRELESS TELECOMMUNICATIONS FACILITY/CONDITIONAL USE PERMIT CASE NO. WIRE-01640-2019 FOR THE MODIFICATION OF AN EXISTING WIRELESS TELECOMMUNICATIONS FACILITY AT 28030 DOROTHY DRIVE AND MAKING A FINDING OF EXEMPTION UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT

THE PLANNING COMMISSION OF THE CITY OF AGOURA HILLS, CALIFORNIA, HEREBY FINDS, RESOLVES AND ORDERS AS FOLLOWS:

Section 1. An application was duly filed by SureSite Consulting Group for Sprint PCS Assets, LLC with respect to the real property located at 28030 Dorothy Drive (A.P.N. 2061-013-037) for a Wireless Telecommunications Facility/Conditional Use Permit to replace and add new wall-mounted antennas, new screening, and miscellaneous equipment both adjacent to the antennas and in an existing equipment area on the roof top of an office building (the "Project").

Section 2. The Project includes the operation of antennas and related equipment on the roof and walls of an existing office building, and is exempt from the California Environmental Quality Act (CEQA), per CEQA Guidelines Section 15303 (Class 3) because the Project involves the construction and location of limited numbers of new, small facilities, or installation of small equipment into a structure. The Project would not result in significant impacts to the environment because it is considered a minor addition to an existing building on a developed property, and the antennas are not accessible by the public. No exception to this categorical exemption applies as set forth in Section 15300.2 of the CEQA Guidelines, including, but not limited to, subsection (c), which relates to unusual circumstances that could have a significant effect on the environment.

Section 3. The Planning Commission of the City of Agoura Hills considered the application at a public hearing held on November 7, 2019, at 6:30 p.m. in the Council Chambers of City Hall at 30001 Ladyface Court, Agoura Hills, California. Notice of the time, date, place and purpose of the aforesaid public hearing was duly given.

Section 4. Evidence, both written and oral, including the staff report and supporting documentation, was presented to and considered by the Planning Commission at the aforesaid public hearing.

Section 5. Conditional Use Permit. Pursuant to Section 9673.2.E. of the Agoura Hills Zoning Ordinance, and based upon the evidence presented at the hearing, including the staff report and oral and written testimony, the Planning Commission finds, that:

1. The proposed use is consistent with the objectives of the Zoning Ordinance and the purposes of the district in which the use is located. Wireless telecommunications facilities are allowed in the Business Park-Office Retail



- (BP-OR) zone subject to the issuance of a Conditional Use Permit (CUP). The wall-mounted antennas will be completely screened with a box screen and the roof-mounted equipment by a parapet wall. Therefore, the additions to the building will not create a visual distraction or block views of adjacent buildings, which is consistent with the Wireless Telecommunications Facilities Ordinance.
2. The proposed use is compatible with the surrounding properties. Wireless telecommunications facilities are allowed by the Zoning Ordinance in the BP-OR zone. The use is consistent with the land use designation of the BP-OR zone, and is appropriate for this commercial area since the use provides internet services to the occupants of the building and motorists in the freeway corridor. The proposed facility will share the use of the building with another provider. The Project will neither interfere with the operation of the tenant businesses located inside the building nor in adjacent properties.
  3. The proposed use and the conditions under which it would be operated or maintained will not be detrimental to the public health, safety, or welfare. Wireless telecommunications facilities must be built in compliance with the City Building Code, and are subject to inspection by the Building Division to ensure they are constructed in a safe manner. The Federal Communications Commission (FCC) also regulates wireless telecommunications facilities with regards to other related health and safety issues, particularly radio frequency (RF) emissions, and establishes exposure thresholds of the RF emissions for the public and occupational staff. The applicant submitted a Radio Frequency Electromagnetic Energy Compliance Report, which demonstrates that the facility is in compliance with protection measures established by the FCC. Pursuant to the Conditions of Approval in the Wireless Telecommunications Facilities Ordinance, the applicant must demonstrate continued compliance with established FCC RF emission standards.
  4. The proposed use will comply with each of the applicable provisions of the Zoning Ordinance. Wireless telecommunications facilities are allowed in the BP-OR zone, subject to the issuance of a CUP. Each of the proposed antennas will comply with the applicable provisions of the Zoning Ordinance relative to the use, location, dimensions and appearance. The antennas will be placed on the building's facades, with some of the equipment adjacent to the antennas behind a roof parapet wall, and some more in an existing equipment area on the roof top, and no expansion of the existing building area is proposed.
  5. The distance from other similar and like uses is sufficient to maintain the diversity within the community. There is only one wireless telecommunication provider with both wall mounted antennas and roof-mounted accessory equipment in the vicinity, which is 200 feet from the proposed facility. Over the years, other facilities have been approved on other commercial buildings in the vicinity of the proposed location, which have in most cases been screened from public view. There are only two out of the three originally approved providers remaining on the property, which reduces the concentration on that specific

site. Since the facility is not visible to the public, and does not require direct use of the facility by the public, the proposed facility does not adversely affect the concentration limitation imposed by the Conditional Use Permit requirements.

6. The proposed use is consistent with the goal and policies of the General Plan with respect to wireless telecommunications facilities, particularly with Goal U-6 and Policies U-6.1 and U-6.2. The General Plan seeks quality communication systems that meet the demands of new and existing developments in the City, which this proposed use does by providing improved wireless telecommunication services and implementation of state-of-the-art telecommunications services in the form of an internet service. The General Plan requires that the installation of wireless telecommunication infrastructure, such as cellular sites, be designed in a manner as to minimize visual impacts on the surrounding environment and neighborhood, and to be as unobtrusive as possible, which this Project accomplishes by screening the antennas with a box screen and the equipment behind a parapet wall.

Section 6. Wireless Telecommunications Facilities. Pursuant to Section 9661.7 of the Agoura Hills Zoning Ordinance, and based upon the evidence presented at the hearing, including the staff report and oral and written testimony, the Planning Commission finds that:

1. The proposed facilities have been designed and located in compliance with all applicable provisions of Division 11 of Part 2, Chapter 6 of Title IX Zoning. The proposed facility remains secondary to the office building on this parcel and is permitted in this zone with a CUP. The facility has been designed to effectively screen and camouflage the antennas. Further, the applicant has completed the supplemental application for a wireless telecommunications facility to the satisfaction of the Director of Planning, which serves, in part, as compliance verification for the Project owners' licensing, FAA Compliance, RF Safety Disclosures, Project build-out, alternative site locations analysis, visual and noise impacts analysis on adjacent properties, and uses required to be submitted in accordance to Section 9661 of the Zoning Ordinance.
2. The proposed facilities have been designed and located to achieve compatibility with the surrounding community. The wireless telecommunications facilities are incorporated into an existing building and adequately screened from the surrounding area.
3. The applicant has submitted a statement of its willingness to allow other carriers to collocate on the proposed wireless telecommunications facilities wherever technically and economically feasible, and where collocation would not harm community compatibility.
4. Noise generated by equipment will not be excessive, annoying nor be detrimental to the public health, safety, and welfare and will not exceed the

standards set forth in Division 11 of Part 2, Chapter 6 of Title IX Zoning of the Municipal Code. The Project consists of antennas and an equipment installation that are not known to generate noise. The provider has certified in writing that the Project will not result in an increase of noise over current conditions. Further, the conditions of approval regulate permissible noise, and provide a procedure for addressing potential adverse noise effects, once installed.

Section 7. Based on the aforementioned findings, the Planning Commission hereby approves Wireless Telecommunications Facility/Conditional Use Permit No. WIRE-0140-2019, subject to the Conditions of Approval in Exhibit A attached and incorporated herein, with respect to the property described in Section 1.

Section 8. The Secretary of the Planning Commission shall certify to the passage, approval, and adoption of this resolution, and shall cause this resolution and this certification to be entered in the Book of Resolutions of the Planning Commission of the City.

PASSED, APPROVED and ADOPTED this 7<sup>th</sup> day of November, 2019, by the following vote to wit:

AYES: (0)  
NOES: (0)  
ABSTAIN: (0)  
ABSENT: (0)

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John Asuncion, Chairperson

ATTEST:

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Doug Hooper, Secretary

**EXHIBIT A**  
**CONDITIONS OF APPROVAL**  
**(Case No. WIRE-01640-2019)**

**STANDARD CONDITIONS**

1. This decision, or any aspect of this decision, can be appealed to the City Council within fifteen (15) days from the date of Planning Commission action, subject to filing the appropriate forms and related fees.
2. This action shall not be effective for any purpose until the applicant has agreed in writing that the applicant is aware of, and accepts all Conditions of this Permit with the Department of Planning and Community Development.
3. Except as modified herein, the approval of this action is limited to and requires complete conformation to the approved labeled exhibits last revised 10/15/2019 that will remain on file with the Planning Division: Site Plan; Elevation Plan; and Details Plan.
4. All exterior materials used in this project shall be in conformance with the materials samples submitted as a part of this application.
5. It is hereby declared to be the intent that if any provision of this Permit is held or declared to be invalid, the Permit shall be void and the privileges granted hereunder shall lapse.
6. It is further declared and made a Condition of this action that if any Condition herein is violated, the Permit shall be suspended and the privileges granted hereunder shall lapse; provided that the applicant has been given written notice to cease such violation and has failed to do so for a period of thirty (30) days.
7. All requirements of the Zoning Ordinance and of the specific zoning designation of the subject property must be complied with unless set forth in the Conditional Use Permit.
8. Unless this permit is used within two (2) years from the date of City approval, Case No. WIRE-01640-2019 will expire. A written request for a one (1) year extension may be considered prior to the expiration date.
9. Operation of the use shall not be granted until all Conditions of Approval have been complied with as determined by the Director of Planning and Community Development.
10. Prior to the issuance of building permits, all requirements of the Los Angeles County Fire Department shall be satisfied.

11. The facility will require the approval of the Building and Safety Division prior to installation and operation.
12. The term "facility" shall mean the wireless telecommunications facility described in the Project plans and supplemental application with attached exhibits dated September 26, 2019 and October 15, 2019, and set forth in Section 1 of the Resolution approving these conditions of approval.

### **WIRELESS TELECOMMUNICATIONS FACILITIES STANDARD CONDITIONS**

13. The permittee shall submit an as built drawing within ninety (90) days after installation of the facility.
14. The permittee shall submit and maintain current at all times basic contact and site information on a form to be supplied by the City. The permittee shall notify the City of any changes to the information submitted within seven (7) days of any change, including change of the name or legal status of the owner or operator. This information shall include, but is not limited to, the following:
  - a. Identity, including the name, address and 24-hour local or toll free contact phone number of the permittee, the owner, the operator, and the agent or person responsible for the maintenance of the facility.
  - b. The legal status of the owner of the wireless telecommunications facility, including official identification numbers and Federal Communications Commission certification.
  - c. Name, address and telephone number of the property owner if different than the permittee.
15. Upon any transfer or assignment of the permit, the Director may require submission of any supporting materials or documentation necessary to determine that the proposed use is in compliance with the existing permit and all of its conditions of approval including, but not limited to, statements, photographs, plans, drawings, models, and analysis by a qualified radio frequency engineer demonstrating compliance with all applicable regulations and standards of the Federal Telecommunications Commission and the California Public Utilities Commission. If the Director determines that the proposed operation is not consistent with the existing permit, the Director shall notify the permittee who shall either revise the application or apply for modification of the permit pursuant to the requirements of the Agoura Hills Municipal Code.
16. The permittee shall not place any facilities that will deny access to, or otherwise interfere with, any public utility, easement, or right-of-way located on the site. The permittee shall allow the City reasonable access to, and maintenance of, all utilities

and existing public improvements within or adjacent to the site, including, but not limited to, pavement, trees, public utilities, lighting and public signage.

17. At all times, all required notices and signs shall be posted on the site as required by the Federal Communications Commission and California Public Utilities Commission, and as approved by the City. The location and dimensions of a sign bearing the emergency contact name and telephone number shall be posted pursuant to the approved plans.
18. At all times, the permittee shall ensure that the facility complies with the most current regulatory and operational standards including, but not limited to, radio frequency emissions standards adopted by the Federal Communications Commission and antenna height standards adopted by the Federal Aviation Administration, and shall timely submit all monitoring reports required pursuant to section 9661.13 of the Agoura Hills Municipal Code.
19. If the Director determines there is good cause to believe that the facility may emit radio frequency emissions that are likely to exceed Federal Communications Commission standards, the Director may require post-installation testing, at permittee's expense, or the Director may require the permittee to submit a technically sufficient written report certified by a qualified radio frequency emissions engineer at other than the regularly required intervals specified in Section 9661.13 of the Agoura Hills Municipal Code, certifying that the facility is in compliance with such FCC standards.
20. Permittee shall pay for and provide a performance bond, which shall be in effect until the facility is fully and completely removed and the site reasonably returned to its original condition, to cover permittee's obligations under these conditions of approval and the Agoura Hills Municipal Code. The bond coverage shall include, but not be limited to, removal of the facility, maintenance obligations and landscaping obligations. Such performance bond shall be in a form satisfactory to the City Attorney and Risk Manager, naming the City as obligee, in an amount equal to \$25,000.
21. If a nearby property owner registers a noise complaint and such complaint is verified as valid by the City, the City may hire a consultant to study, examine and evaluate the noise complaint and the permittee shall pay the fee for the consultant. The matter shall be reviewed by the Director. If the Director determines sound proofing or other sound attenuation measures should be required to bring the project into compliance with the Agoura Hills Municipal Code, the Director may impose that condition on the project after notice and a public hearing.
22. Permittee shall defend, indemnify, protect and hold harmless City, its elected and appointed Council Members, boards, commissions, officers, officials, agents, consultants, employees, and volunteers from and against any and all claims, actions, or proceeding against the City, and its elected and appointed Council Members,

boards, commissions, officers, officials, agents, consultants, employees, and volunteers to attack, set aside, void or annul, an approval of the City, Planning Commission or City Council concerning this permit and the project. Such indemnification shall include damages, judgments, settlements, penalties, fines, defensive costs or expenses, including, but not limited to, interest, attorneys' fees and expert witness fees, or liability of any kind related to or arising from such claim, action, or proceeding. The City shall promptly notify the permittee of any claim, action, or proceeding. Nothing contained herein shall prohibit City from participating in a defense of any claim, action or proceeding. The City shall have the option of coordinating the defense, including, but not limited to, choosing counsel for the defense at permittee's expense.

23. "Permittee" shall include the applicant and all successors in interest to this permit.
24. The facility shall bear no signs or advertising devices other than certification, warning or other signage required by law or permitted by the City.
25. The facility shall not be illuminated unless specifically required by the Federal Aviation Administration or other government agency. Lightning arresters and beacon lights are not permitted unless required by the Federal Aviation Administration or other government agency. Any required lighting shall be shielded to eliminate, to the maximum extent possible, impacts on the surrounding neighborhoods, and a lighting study shall be prepared by a qualified lighting professional to evaluate potential impacts to adjacent properties, which must be reviewed and approved by the City prior to the installation of any lighting.
26. Permittee shall submit to the City within ninety (90) days of beginning operations under this permit, and every two years from the date the facility begins operations, a technically sufficient report ("monitoring report") that demonstrates the following:
  - a. The facility is in compliance with applicable federal regulations, including Federal Communications Commission RF emissions standards, as certified by a qualified radio frequency emissions engineer.
  - b. The facility is in compliance with all provisions of this section and its conditions of approval.
  - c. The bandwidth of the facility has not been changed since the original application or last report, as applicable, and if it has, a full written description of that change shall be provided.
27. Noise.
  - d. The facility shall be operated and maintained in such a manner so as to minimize any possible disruption caused by noise.

- e. The facility is not approved for a backup generator. In the event of an emergency that results in a loss of power to the facility, a temporary emergency backup generator may be employed and shall only be operated during periods of power outages, and shall not be tested on weekends or holidays, or between the hours of 7:00 PM and 7:00 AM. The temporary emergency backup generator shall be promptly removed from the premises once the emergency is terminated.
  - f. At no time shall equipment noise from the facility exceed an exterior noise level of fifty-five (55) dBA at the facility's property line and such equipment noise shall at no time be audible at the property line of any property zoned residential or improved with a residential use that is located within five hundred (500) feet of the facility.
  - g. All air conditioning units and any other equipment that may emit noise that would be audible from beyond the facility's property line shall be enclosed or equipped with noise attenuation devices to the extent necessary to ensure compliance with applicable noise limitations under the City of Agoura Hills Municipal Code.
  - h. Except for emergency repairs, any testing and maintenance activities that will be audible beyond the property line shall only occur between the hours of 7:00 a.m. and 7:00 p.m. on Monday through Friday, excluding holidays, unless alternative hours are approved by the Director.
28. Features designed to make the facility resistant to, and minimize opportunities for, unauthorized access, climbing, vandalism, graffiti and other conditions that would result in hazardous situations, visual blight or attractive nuisances shall not be removed by permittee and shall be maintained in good condition.
29. The facility, including, but not limited to, antennas, accessory equipment, walls, shields, cabinets, camouflage, and the facility site, shall be maintained in good condition, including ensuring the facility is reasonably free of:
- a. General dirt and grease;
  - b. Chipped, faded, peeling, and cracked paint;
  - c. Rust and corrosion;
  - d. Cracks, dents, and discoloration;
  - e. Missing, discolored or damaged screening or other camouflage;
  - f. Graffiti, bills, stickers, advertisements, litter and debris;
  - g. Broken and misshapen structural parts; and
  - h. Any damage from any cause.



The permittee shall replace its facility, or part thereof, after obtaining all required permits, if maintenance or repair is not sufficient to return the facility to the condition it was in at the time of installation.

30. Graffiti shall be removed from a facility as soon as practicable, and in no instance more than twenty-four (24) hours from the time of notification by the City.
31. This permit shall be valid for a period of ten (10) years from the date of Planning Commission approval, which is the date of issuance, unless pursuant to another provision of the Agoura Hills Municipal Code it lapses sooner or is revoked. At the end of ten (10) years from the date of issuance, this permit shall expire.
32. In the event the facility ceases to provide wireless telecommunications services for ninety (90) or more consecutive days, the facility shall be considered abandoned and shall be promptly removed as provided in these conditions of approval and the Agoura Hills Municipal Code. If there are two (2) or more users of a single facility, then this provision shall not become effective until all users cease using the facility.
33. Permittee shall notify the City in writing of its intent to abandon or cease use of the facility within ten (10) days of ceasing or abandoning use. Additionally, the Permittee shall provide written notice to the Director of any discontinuation of operations of thirty (30) days or more.
34. Failure to inform the Director of cessation or discontinuation of operations of the facility as required by these conditions of approval shall constitute a violation of the conditions of approval and be grounds for:
  - a. Prosecution;
  - b. Revocation or modification of the permit;
  - c. Calling of any bond or other assurance required by this article or conditions of approval of the permit;
  - d. Removal of the facility by the City in accordance with the procedures established under the Agoura Hills Municipal Code for abatement of a public nuisance at the permittee's expense; and/or
  - e. Any other remedies permitted under the Agoura Hills Municipal Code.
35. Upon the expiration date of the permit, including any extensions, earlier termination or revocation of the permit or abandonment of the facility, the permittee, the property owner, or both shall remove the facility and restore the site to its natural condition except for retaining the landscaping improvements and any other improvements at the discretion of the City. Removal shall be in accordance with proper health and safety requirements and all ordinances, rules, and regulations of the City. The facility shall be removed from the property, at no cost or expense to the City. The private

property owner shall be independently responsible for the expense of timely removal and restoration.

36. Failure of the permittee, property owner, or both to promptly remove the facility and restore the property within thirty (30) days after expiration of this permit, earlier termination or revocation of this permit, or abandonment of the facility, shall be a violation of the Agoura Hills Municipal Code, and shall be grounds for:
  - a. Prosecution;
  - b. Calling of any bond or other assurance required by this division or conditions of approval of permit;
  - c. Removal of the facility by the City in accordance with the procedures established under the Agoura Hills Municipal Code for abatement of a public nuisance at the permittee and/or property owner's expense; and/or
  - d. Any other remedies permitted under the Agoura Hills Municipal Code.
37. The facility shall comply at all times with any and all applicable local, state, and federal laws, regulations and guidelines. Any violation of these conditions of approval or the Agoura Hills Municipal Code may be subject to the citations, penalties and fines as set forth in the Agoura Hills Municipal Code, other available remedies and/or revocation or modification of this permit at the discretion of the City Attorney and City Prosecutor.
38. The permittee shall keep all access points to the equipment enclosure locked at all times, except when active maintenance is performed on the equipment.
39. The permittee shall install and at all times maintain in good condition an RF Caution signage proposed at the locations shown in the applicant's EBI RF Report. Signs required under this condition shall be installed so that a person can clearly see the sign as he or she approaches the access point when the door, hatch or other access point is in the open position and when the door, hatch or other access point is in the closed position (e.g. placed on the wall opposite from the hinges, so that the sign remains visible when the door or hatch swings open).
40. The permittee shall ensure that all required radio frequency signage be installed and maintained at all times in good condition. All such radio frequency signage be constructed of hard materials, UV stabilized, and no smaller than 8 inches in width by 12 inches in height. All radio frequency signage must comply with the sign colors, sign symbols, and sign panel layouts in conformance with ASNI Z535.1, ANSI Z535.2, and ANSI C95.2-2007 standards. All such radio frequency signage, or additional signage immediately adjacent to the radio frequency signage, shall provide a working local or toll-free telephone number to its network operations center that reaches a live person who can exert transmitter power-down control over this site as required by the FCC.

41. In the event that the FCC changes any of radio frequency signage requirements that the applicable to the project site approved herein or ASNI Z535.1, ANSI Z535.2, and ANSI C95.2-2007 standards that are applicable to the project site approved herein are changed, Permittee, within 30 days of each such change, at its own cost and expense, shall replace the signage at the project site to comply with the then current standards.

END

## **ATTACHMENT 2**

# City of Agoura Hills

WIRELESS TELECOMMUNICATIONS FACILITIES PERMIT CASE NO. WIRE-01640-2019



Vicinity/Zoning  
Map

Project Site

101 Freeway

Dorothy Drive

CRS-FC-OA

Dorothy Drive

Palo Comado Canyon Drive

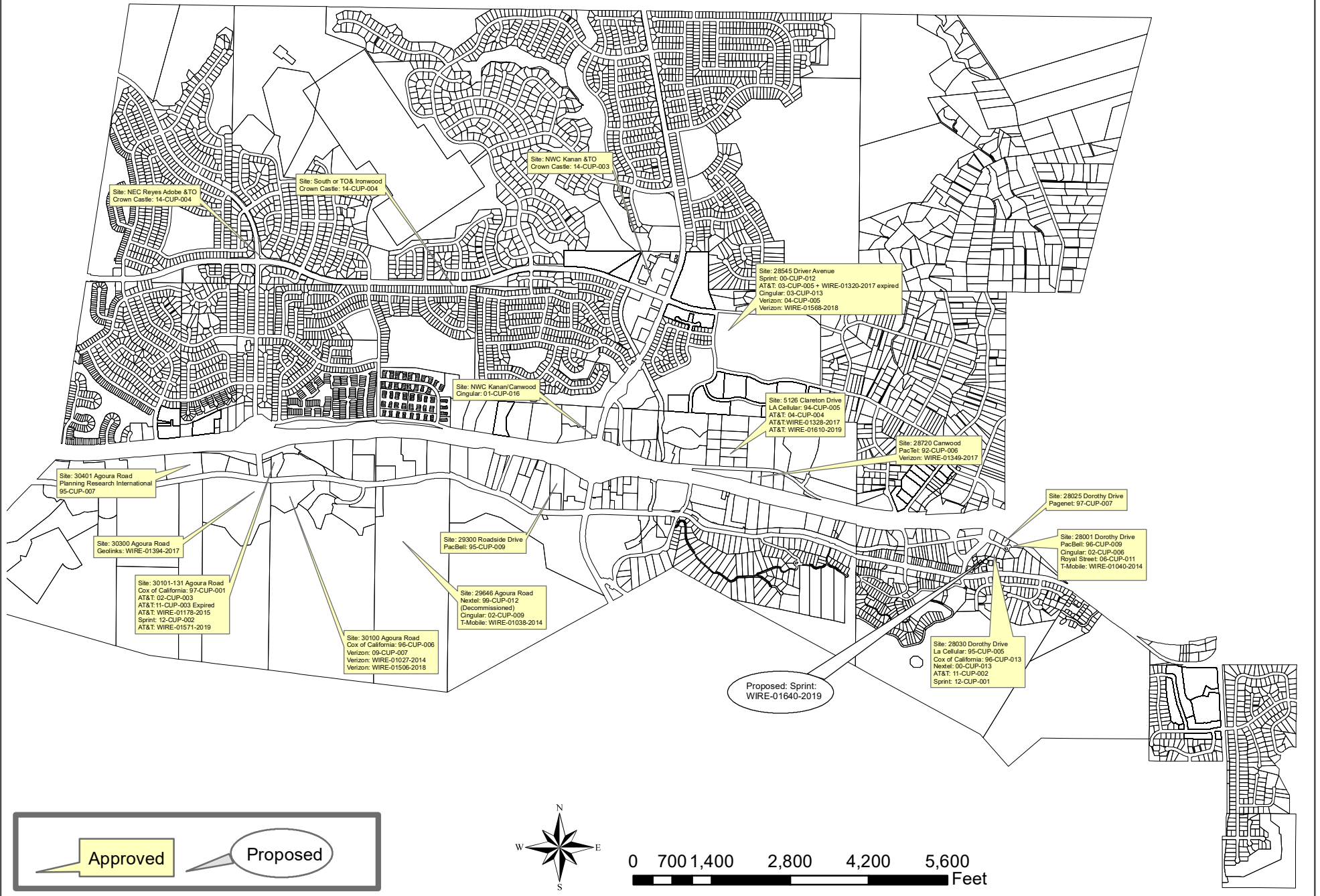
BP-OR-FC



0 80 160 320 480 640 Feet

## **ATTACHMENT 3**

# Approved and Proposed Wireless Telecommunication Facilities (As of October 2019)





PROJECT: **MIMO & 2ND 800MHz  
EQUIPMENT DEPLOYMENT**

SITE NAME: **AGOURA HILLS**

SITE CASCADE: **LA03XC200**

SITE ADDRESS: **28030 DOROTHY DR  
AGOURA HILLS, CA 91301**

SITE TYPE: **±43'-6" BUILDING**

PLANS PREPARED FOR:  
**Sprint**  
310 COMMERCE, SUITE 250  
IRVINE, CA 92602  
PHONE: (714) 617-9342

PLANS PREPARED BY:  
**DCI PACIFIC**  
**A|E|C WORKS**  
ARCHITECTURE | ENGINEERING | CONSULTING  
32 EXECUTIVE PARK | SUITE 110  
IRVINE | CA 92614

OEM:

SAC:  
**SURESITE**  
36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

ARCHITECT LICENSE:

REVISIONS:

DESCRIPTION:	DATE:	BY:	REV:
90% CD (PRELIM CD)	10/03/17	MT	A
100% CD (FINAL CD)	10/16/17	FV	0
SCOPE CHANGE	05/13/18	FV	1
ADDITIONAL COMMENTS	07/25/18	HT	2
ANTENNA AND RRH SCOPE CHANGE	04/25/19	FV	3
MIMO SCOPE CHANGE	07/05/19	FV	4
MINOR PLANNING COMMENTS	07/19/19	FV	5
MINOR PLANNING COMMENTS	10/15/19	FV	6

SITE NAME:  
**AGOURA HILLS**

SITE CASCADE:  
**LA03XC200**

SITE ADDRESS:  
**28030 DOROTHY DR  
AGOURA HILLS, CA 91301**

SHEET DESCRIPTION:  
**TITLE SHEET**

SHEET NUMBER:  
**T1**

### SITE INFORMATION

**PROPERTY OWNER:**  
OWNER: JACK DANIELS & SHELE HARRIS-DANIELS  
CAL WEST ENTERPRISES, INC.  
ADDRESS: 28030 DOROTHY DR  
AGOURA HILLS, CA 91301

**LATITUDE (NAD83):**  
34° 8' 30.011" N  
34.141670

**LONGITUDE (NAD83):**  
118° 44' 12.012" W  
-118.736670

**APN:**  
2061-013-037

**COUNTY:**  
LOS ANGELES

**ZONING JURISDICTION:**  
CITY OF AGOURA HILLS

**ZONING DISTRICT:**  
BP-OR-FC

**POWER COMPANY:**  
LADWP

**RF ENGINEER:**  
NAME: ROD WOODFIELD  
PHONE: (714) 681-4206

**SPRINT CM:**  
NAME: XAVIER PULIDO  
PHONE: (562) 536-8902  
XAVIER.2.PULIDO@SPRINT.COM

**ARCHITECT:**  
DCI PACIFIC  
32 EXECUTIVE PARK, SUITE 110  
IRVINE, CA 92614  
PHONE: (949) 475-1000  
FAX: (949) 475-1001

**SPRINT REPRESENTATIVE:**  
SURESITE CONSULTING GROUP, LLC  
7535 E HAMPDEN AVE., SUITE 400  
DENVER, CO 80231

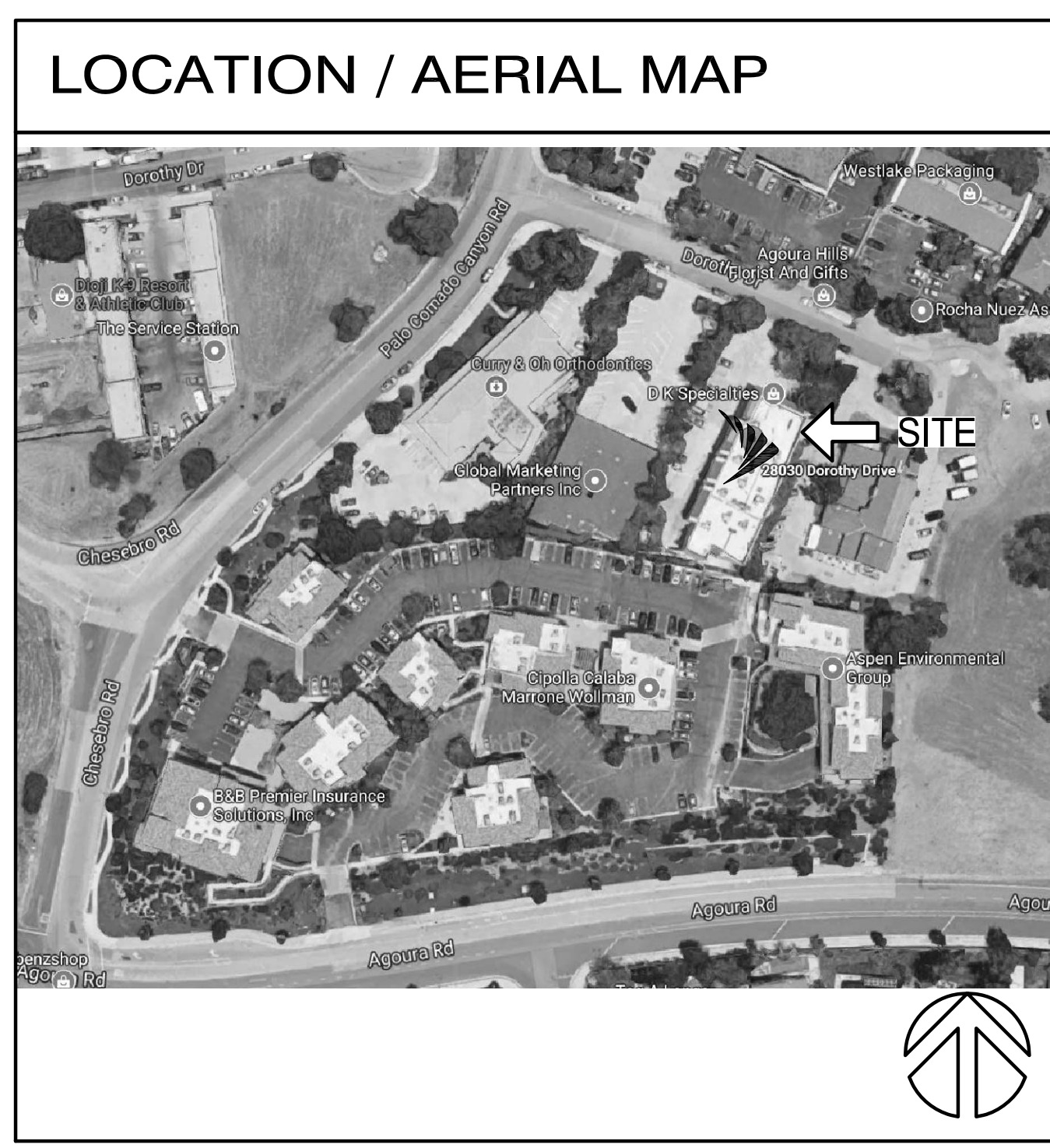
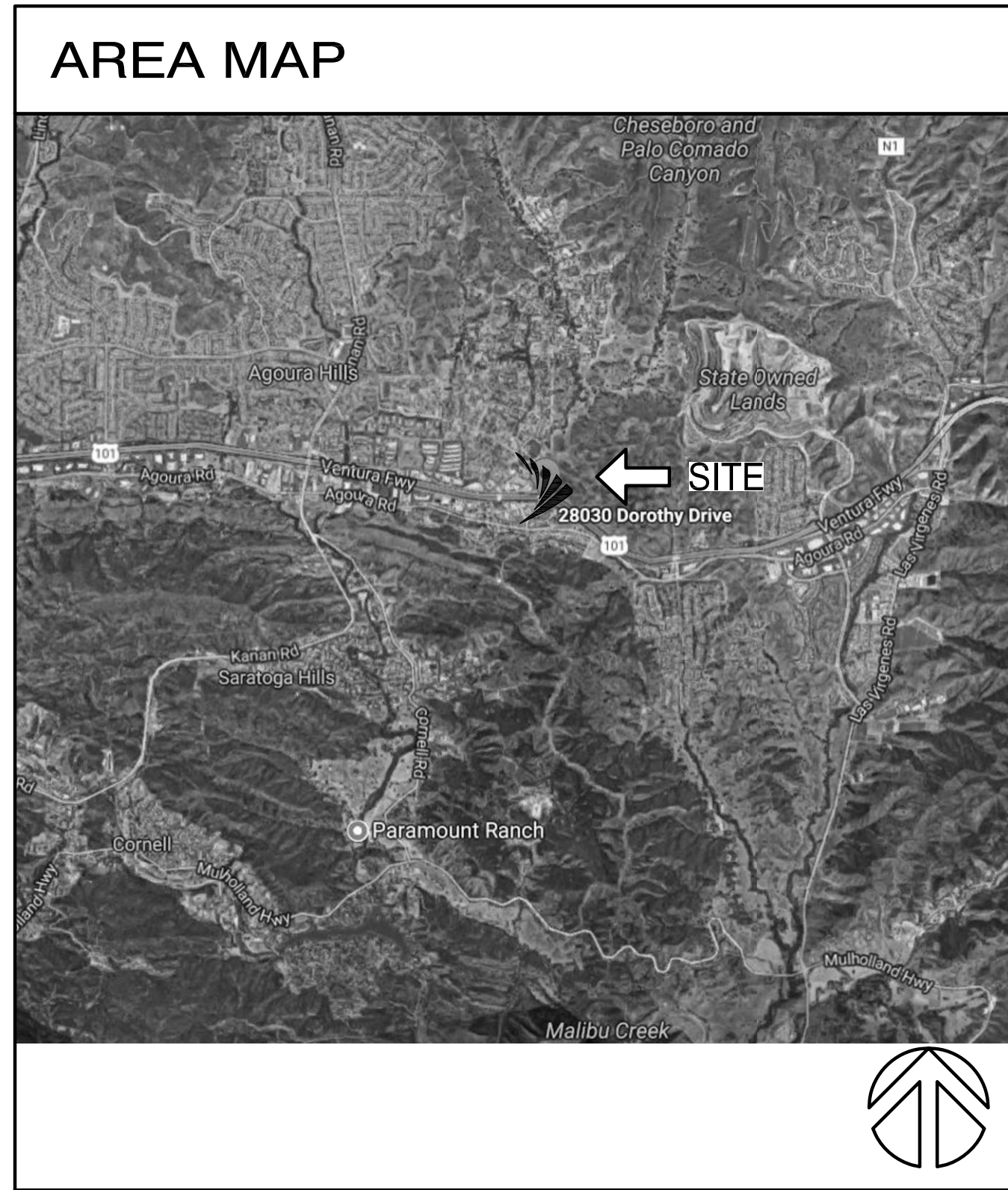
**CONTACT:**  
CONNOR RICHARDS  
PHONE: (303) 828-7114  
EMAIL: C.RICHARDS@SURE-SITE.COM

**CONTACT:**  
D.K. DO, RA  
E-MAIL: DK@DCIPACIFIC.COM

**CONTACT:**  
JHONAH "BOK" YU, RA  
E-MAIL: BOK@DCIPACIFIC.COM

APPROVAL	DATE
P.M.:	
LANDLORD:	
CONST:	
S/A:	
R.F.:	
ZONING:	
A&E:	
R.F.:	

REVIEWERS SHALL CLEARLY PLACE INITIALS ADJACENT TO EACH REDLINE NOTE AS DRAWINGS ARE BEING REVIEWED



### PROJECT DESCRIPTION

**UPGRADE TO AN EXISTING 'SPRINT' SITE:**

- REMOVE (3) EXISTING FRP BOXES
- INSTALL (2) NEW FRP BOXES
- REMOVE (3) EXISTING PANEL ANTENNAS
- INSTALL (6) NEW PANEL ANTENNAS
- INSTALL (3) NEW REMOTE RADIO HEADS (RRH'S) AT ANTENNA LEVEL
- INSTALL (1) NEW 2.5GHz BBU IN EXISTING MMBTS CABINET
- INSTALL (4) NEW BATTERIES IN EXISTING CABINET
- INSTALL (3) NEW HYBRID CABLES

### CODE COMPLIANCE

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.

- 2016 CALIFORNIA ADMINISTRATIVE CODE (CAC)
- 2016 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 & 2
- 2016 CALIFORNIA ELECTRICAL CODE
- 2016 CALIFORNIA MECHANICAL CODE (CMC)
- 2016 CALIFORNIA ENERGY CODE
- 2016 CALIFORNIA FIRE CODE (CFC)
- 2016 CALIFORNIA GREEN CODE
- 2016 CALIFORNIA REFERENCES STANDARDS CODE
- APPLICABLE LOCAL CODES

### DRAWING INDEX

SHEET	DESCRIPTION
T1	TITLE SHEET
T2	BATTERY SPECIFICATIONS
SP1	SPECIFICATIONS
SP2	SPECIFICATIONS AND EQUIPMENT LIST
A1	SITE PLAN
A2	EQUIPMENT LAYOUT PLAN
A3	ANTENNA LAYOUT PLANS
A4	ELEVATIONS
A5	ELEVATIONS
D1	DETAILS
D3	DETAILS
D2	GROUNDING NOTES AND DETAILS
12	SHEETS TOTAL

DO MACRO - MIMO & 2ND 800MHZ ±43'-6" BUILDING



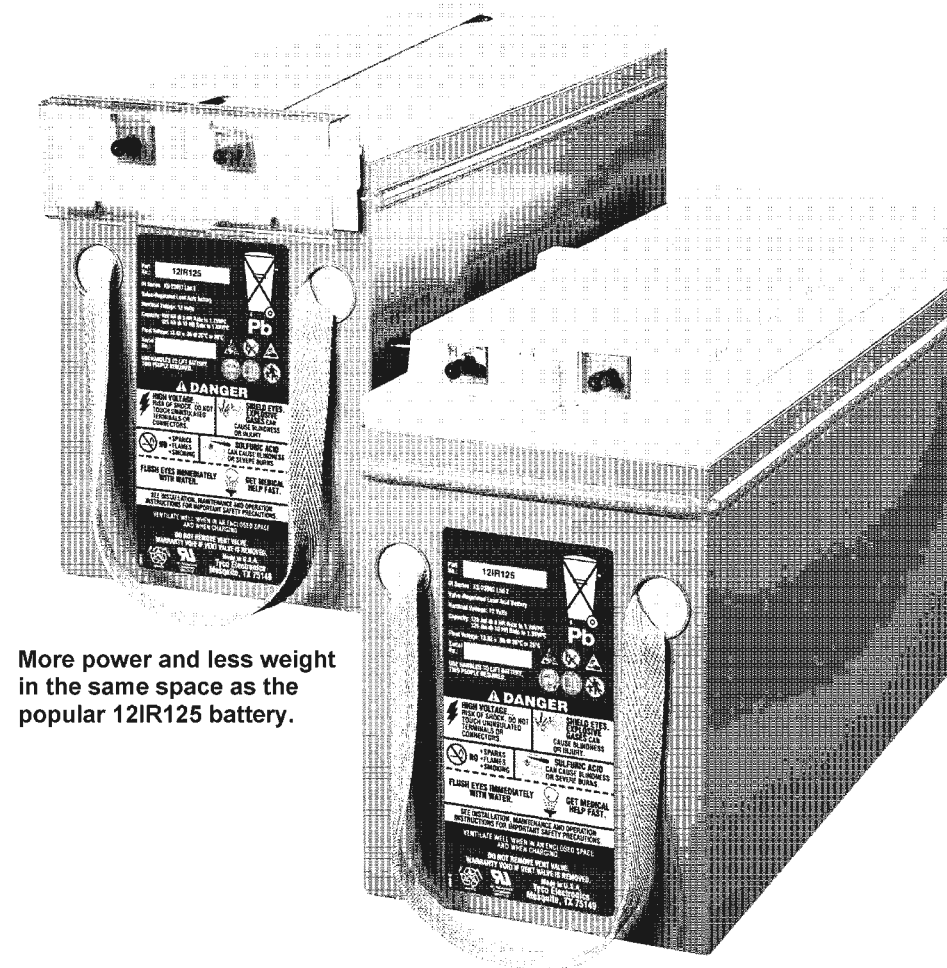
Data Sheet  
February 2008



## 12IR150 and 12IR150LP High Power Density Batteries

### Features

- Front access terminals allow easy and safe installation
- Tank formed plates ensure uniform and matching voltage
- Epoxy-sealed, lead-tin terminal posts prevent leaks and prolong life
- Low calcium, high tin positive grids ensure long-term reliability
- Epoxy-coated steel jacket helps dissipate heat and provides structural rigidity
- Absorbed Glass Mat (AGM) separators immobilize electrolyte
- Heat-sealed container and cover provides reliable seal
- Self sealing safety valves with flame arrestor



More power and less weight in the same space as the popular 12IR125 battery.

### Specifications

Battery Model	Nominal Voltage	Ampere Hours*		Length	Width	Height	Weight	Comcode
		8-Hour Rate	10-Hour Rate					
12IR150	12V	145	150	16.82 in. 427.2 mm	6.97 in. 177.0 mm	10.10 in. 256.5 mm	100 lbs. 45.4 kg	408520663
12IR150LP	12V	145	150	17.90 in. 454.7 mm	6.97 in. 177.0 mm	9.36 in. 237.7 mm	100 lbs. 45.4 kg	408520671

\*Ampere-Hour ratings are determined based on a discharge to 1.75 volts per cell. Nominal battery float voltage is 13.5V.

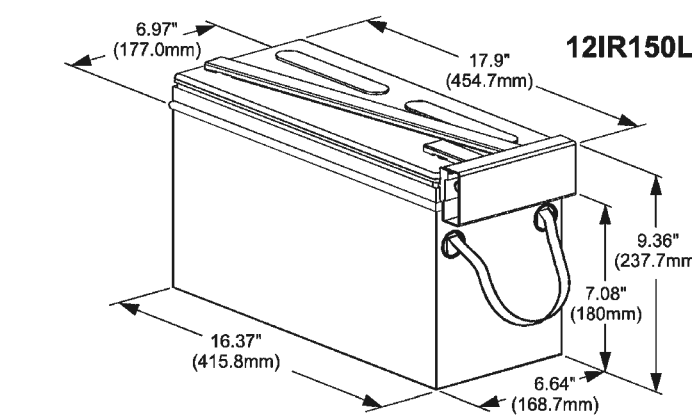
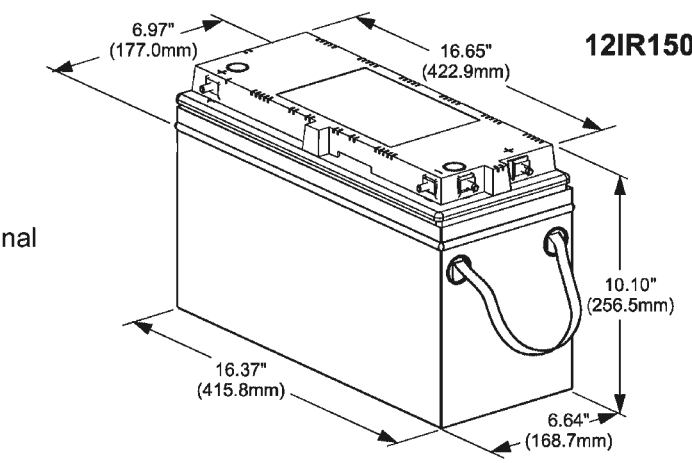
Data Sheet  
February 2008

12IR150 and 12IR150LP  
High Power Density Batteries

### Discharge Capacities in Ampere-Hours at 25°C (77°F)

End Voltage V (VPC)	1 Hr.	3 Hr.	5 Hr.	8 Hr.	10 Hr.	15 Hr.	20 Hr.	24 Hr.
11.40 (1.90)	72	102	115	125	131	138	143	145
11.28 (1.88)	76	107	120	131	137	144	149	151
11.16 (1.86)	80	112	125	136	142	150	155	157
11.04 (1.84)	84	115	128	140	145	153	158	161
10.92 (1.82)	87	117	130	142	147	154	159	161
10.80 (1.80)	89	119	132	144	149	155	160	162
10.50 (1.75)	94	122	133	145	150	157	162	164

- Voltage:** 12 Volts
- Capacity:** 150 Ah at 10-hr rate  
145 Ah at 8-hr rate
- Float Voltage:** 13.5 V/battery (2.25 V/cell) nominal
- Float Life:** 10 years at 25°C (77°F)
- Container and Cover:** Flame-retardant polypropylene
- Outer Case:** Acid-resistant, coated steel
- Flammability Rating:** UL94 V-0, LOI>28%
- Electrolyte Volume:** 2.17 gal. (8.22 L)
- Acid Volume:** 0.62 gal. (2.34 L)
- Specific Gravity:** 1.300
- CPR Number:** 206153 (12IR150)  
206154 (12IR150LP)



LINEAGE POWER  
World Wide Headquarters  
3060 Skyline Drive, Mesquite, TX 75149, USA  
+1-800-843-1797  
Outside U.S.A.: +1-972-284-2626  
http://www.lineagepower.com  
e-mail: techsupport1@lineagepower.com

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D803-088 Rev 2

PLANS PREPARED FOR:

**Sprint**

310 COMMERCE, SUITE 250  
IRVINE, CA 92602  
PHONE: (714) 617-9342

PLANS PREPARED BY:

**DCI PACIFIC**  
**A|E|C WORKS**

ARCHITECTURE | ENGINEERING | CONSULTING  
32 EXECUTIVE PARK | SUITE 110  
IRVINE | CA 92614

OEM:

SAC:

**SURESITE**

36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

ARCHITECT LICENSE:

REVISIONS:	DESCRIPTION:	DATE:	BY:	REV:
	90% CD (PRELIM CD)	10/03/17	MT	A
	100% CD (FINAL CD)	10/16/17	FV	0
	SCOPE CHANGE	05/13/18	FV	1
	ADDITIONAL COMMENTS	07/25/18	HT	2
	ANTENNA AND RRH SCOPE CHANGE	04/25/19	FV	3
	MIMO SCOPE CHANGE	07/05/19	FV	4
	MINOR PLANNING COMMENTS	07/19/19	FV	5
	MINOR PLANNING COMMENTS	10/15/19	FV	6

SITE NAME:

**AGOURA HILLS**

SITE CASCADE:

**LA03XC200**

SITE ADDRESS:

**28030 DOROTHY DR  
AGOURA HILLS, CA 91301**

SHEET DESCRIPTION:

**BATTERY SPECIFICATIONS**

SHEET NUMBER:

**T2**

**SECTION 01 100 – SCOPE OF WORK**

PART 1 – GENERAL

**THE WORK:**

THE WORK SHALL COMPLY WITH APPLICABLE NATIONAL AND LOCAL CODES AND STANDARDS, LATEST EDITION, AND PORTIONS THEREOF.

**PRECEDENCE:**

SHOULD CONFLICTS OCCUR BETWEEN THE STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES INCLUDING THE STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES AND THE CONSTRUCTION DRAWINGS, INFORMATION ON THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE. NOTIFY SPRINT CONSTRUCTION MANAGER IF THIS OCCURS

**SITE FAMILIARITY:**

CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE SPRINT CONSTRUCTION MANAGER PRIOR TO THE COMMENCEMENT OF WORK. NO COMPENSATION WILL BE AWARDED BASED ON CLAIM OF LACK OF KNOWLEDGE OR FIELD CONDITIONS.

**ON-SITE SUPERVISION:**

THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL EMPLOY A COMPETENT SUPERINTENDENT WHO SHALL BE IN ATTENDANCE AT THE SITE AT ALL TIMES DURING PERFORMANCE OF THE WORK.

**DRAWINGS, SPECIFICATIONS AND DETAILS REQUIRED AT JOBSITE:**

THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A FULL SET OF THE CONSTRUCTION DRAWINGS, STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES AND THE STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES AT THE JOBSITE FROM MOBILIZATION THROUGH CONSTRUCTION COMPLETION.

- THE JOBSITE DRAWINGS, SPECIFICATIONS AND DETAILS SHALL BE CLEARLY MARKED DAILY IN RED PENCIL WITH ANY CHANGES IN CONSTRUCTION OVER WHAT IS DEPICTED IN THE DOCUMENTS. AT CONSTRUCTION COMPLETION, THIS JOBSITE MARKUP SET SHALL BE DELIVERED TO THE COMPANY OR COMPANY'S DESIGNATED REPRESENTATIVE TO BE FORWARDED TO THE COMPANY'S A&E VENDOR FOR PRODUCTION OF "AS-BUILT" DRAWINGS.
- DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK. CONTRACTOR SHALL NOTIFY SPRINT CONSTRUCTION MANAGER OF ANY VARIATIONS PRIOR TO PROCEEDING WITH THE WORK.
- DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS NOTED OTHERWISE. SPACING BETWEEN EQUIPMENT IS THE REQUIRED CLEARANCE. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE SPRINT CONSTRUCTION MANAGER PRIOR TO PROCEEDING WITH THE WORK.

**METHODS OF PROCEDURE (MOPS) FOR CONSTRUCTION:**

CONTRACTOR SHALL PERFORM WORK AS DESCRIBED IN THE FOLLOWING INSTALLATION AND COMMISSIONING MOPS.

- TOP HAT
- HOW TO INSTALL A NEW CABINET
- BASE BAND UNIT IN EXISTING UNIT
- INSTALLATION OF BATTERIES
- INSTALLATION OF HYBRID CABLE
- INSTALLATION OF RRU'S
- CABLING
- TS-0200 REV 4 – ANTENNA LINE ACCEPTANCE STANDARDS
- SPRINT CELL SITE ENGINEER NOTICE
- COMMISSIONING MOPS

**SECTION 01 200 – COMPANY FURNISHED MATERIAL AND EQUIPMENT**

COMPANY FURNISHED MATERIAL AND EQUIPMENT IS IDENTIFIED ON THE RF DATA SHEET IN THE CONSTRUCTION DOCUMENTS.

THE CONTRACTOR IS RESPONSIBLE FOR SPRINT PROVIDED MATERIAL AND EQUIPMENT TO ENSURE IT IS PROTECTED AND HANDLED PROPERLY THROUGHOUT THE CONSTRUCTION DURATION.

CONTRACTOR RESPONSIBLE FOR RECEIPT OF SPRINT FURNISHED EQUIPMENT AT THE CELL SITE OR CONTRACTORS LOCATION. CONTRACTOR TO COMPLETE SHIPPING AND RECEIPT DOCUMENTATION IN ACCORDANCE WITH COMPANY PRACTICE.

**SECTION 01 300 – CELL SITE CONSTRUCTION****NOTICE TO PROCEED:**

NO WORK SHALL COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF THE WORK ORDER.

**SITE CLEANLINESS:**

CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE FROM THE SITE ALL REMAINING RUBBISH, IMPLEMENTS, TEMPORARY FACILITIES, AND SURPLUS MATERIALS.

**TESTS AND INSPECTIONS:**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION TESTS, INSPECTIONS AND PROJECT DOCUMENTATION.
- CONTRACTOR SHALL ACCOMPLISH TESTING INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
  - COAX SWEEPS AND FIBER TESTS PER TS-0200 REV 4 ANTENNA LINE ACCEPTANCE STANDARDS.
  - AGL, AZIMUTH AND DOWNTILT USING ELECTRONIC COMMERCIAL MADE-FOR-THE-PURPOSE ANTENNA ALIGNMENT TOOL.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CORRECTIONS TO ANY WORK IDENTIFIED AS UNACCEPTABLE IN SITE INSPECTION ACTIVITIES AND/OR AS A RESULT OF TESTING.
  - ALL TESTING REQUIRED BY APPLICABLE INSTALLATION MOPS
- REQUIRED CLOSEOUT DOCUMENTATION INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
  - AZIMUTH, DOWNTILT, AGL – UPLOAD REPORT FROM ANTENNA ALIGNMENT TOOL TO SITERRA TASK 465. INSTALLED AZIMUTH, DOWNTILT, AND AGL MUST CONFORM TO THE RF DATA SHEETS. SWEEP AND FIBER TESTS
  - SWEEP AND FIBER TESTS
  - SCANABLE BARCODE PHOTOGRAPHS OF TOWER TOP AND INACCESSIBLE SERIALIZED EQUIPMENT
  - ALL AVAILABLE JURISDICTIONAL INFORMATION
  - PDF SCAN OF REDLINES PRODUCED IN FIELD
  - ELECTRONIC AS-BUILT DRAWINGS IN AUTOCAD AND PDF FORMATS. ANY FIELD CHANGE MUST BE REFLECTED BY MODIFYING THE PLANS, ELEVATIONS, AND DETAILS IN THE DRAWING SETS. GENERAL NOTES INDICATING MODIFICATIONS WILL NOT BE ACCEPTED. CHANGES SHALL BE HIGHLIGHTED AS "CLOUDS" IDENTIFIED AS THE "AS-BUILT" CONDITION.
  - LIEN WAIVERS
  - FINAL PAYMENT APPLICATION
  - REQUIRED FINAL CONSTRUCTION PHOTOS
  - CONSTRUCTION AND COMMISSIONING CHECKLIST COMPLETE WITH NO DEFICIENT ITEMS
  - ALL POST NTP TASKS INCLUDING DOCUMENT UPLOADS COMPLETED IN SITERRA (SPRINTS DOCUMENT REPOSITORY OF RECORD).
  - CLOSEOUT PHOTOGRAPHS:
    - \* PROVIDE PHOTOGRAPHS OF FINAL PROJECT PER THE FOLLOWING LIST, ADDITIONAL PHOTOGRAPHS MAY BE REQUIRED TO SUPPORT ACCEPTANCE PROCESSES.
      - MAIN HYBRID CABLE ROUTE (MINIMUM TWO PHOTOS)
      - PHOTOS OF EACH ANTENNA AD RRU
      - MANUFACTURERS NAME TAG FOR ALL SERIALIZED EQUIPMENT
      - PULL AND DISTRIBUTION BOXES INTERMEDIATE BETWEEN RRU'S AND MMBS (DOOR OPEN)
      - MMBS CABINET WITH DOORS OPEN BATTERIES INSTALLED
      - BREAK OUT CYLINDERS
      - ASR SIGNAGE FOR SPRINT OWNED TOWERS
      - RADIATION EXPOSURE WARNING SIGN
      - PHOTOGRAPH FROM EACH SECTOR FROM APPROXIMATELY RAD CENTER OF ANY NEW ANTENNA AT HORIZON
      - LOAD PHOTOS TO SITERRA PROJECT LIBRARY 15. IN 15 CREATE NEW CATEGORY: 2.5 DEPLOYMENT, AND SECTION: PERMANENT CONSTRUCTION LABEL PHOTOS WITH SITE CASCADE AND VIEW BEING DEPICTED CAMERAS USED TO TAKE PHOTOGRAPHS SHALL GPS ENABLED SUCH THAT THE GPS COORDINATES ARE INCLUDED IN THE PHOTO MEDIA-FILE INFORMATION.

**COMMISSIONING:**

PERFORM ALL COMMISSIONING AS REQUIRED BY APPLICABLE MOPS

**INTEGRATIONAL:**

PERFORM ALL INTEGRATION ACTIVITIES AS REQUIRED BY APPLICABLE MOPS

**SECTION 07 500 – ROOF CUTTING, PATCHING AND REPAIR****SUMMARY:**

THIS SECTION SPECIFIES CUTTING AND PATCHING EXISTING ROOFING SYSTEMS WHERE CONDUIT OR CABLES EXIT THE BUILDING ONTO THE ROOF OR BUILDING-MOUNTED ANTENNAS, AND AS REQUIRED FOR WATERTIGHT PERFORMANCE. ROOFTOP ENTRY OPENINGS IN MEMBRANE ROOFTOPS SHALL BE CONSTRUCTED TO COMPLY WITH LANDLORD, ANY EXISTING WARRANTY, AND LOCAL JURISDICTIONAL STANDARDS. ROOFTOP CABLE TRAY SHALL BE CONSTRUCTED TO COMPLY WITH RACEWAY-STANDARD DETAIL ROOF MOUNTED CABLE TRAY.

**1.4 SUBMITTALS:**

- PRE-CONSTRUCTION ROOF PHOTOS: COMPLETE A ROOF INSPECTION AND REPORT PRIOR TO THE INSTALLATION OF SPRINT EQUIPMENT ON ANY ROOFTOP BUILD REQUIRING ROOF PENETRATION. AT A MINIMUM INSPECT PHOTOGRAPH (3 MIN EA) ALL AREAS IMPACTED BY THE ADDITION OF THE SPRINT EQUIPMENT.
- PROVIDE SIMILAR PHOTOGRAPHS SHOWING ROOF CONDITIONS AFTER CONSTRUCTION (3 MIN EA)
- ROOF INSPECTION PHOTOGRAPHS SHOULD BE UPLOADED WITH CLOSE-OUT

**SECTION 09 900 – PAINTING****QUALITY ASSURANCE:**

- COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- REGULATIONS: COMPLIANCE WITH VOC AND ENVIRONMENTAL REGULATIONS.

**MATERIALS:**

- MANUFACTURERS: BENJAMIN MOORE, ICI DEVOE COATINGS, PPG, SHERWIN WILLIAMS OR APPROVED EQUAL. PROVIDE PREMIUM GRADE, PROFESSIONAL-QUALITY PRODUCTS FOR COATING SYSTEMS.

**PAINT SCHEDULE:**

- EXTERIOR ANTENNAE AND ANTENNA MOUNTING HARDWARE: ONE COAT OF PRIMER AND TWO FINISH COATS. PAINT FOR ANTENNAE SHALL BE NON-METALLIC BASED AND CONTAIN NO METALLIC PARTICLES. PROVIDE COLORS AND PATTERNS AS REQUIRED TO MASK APPEARANCE OF ANTENNAE ON ADJACENT BUILDING SURFACES AND AS ACCEPTABLE TO THE OWNER. REFER TO ANTENNA MANUFACTURER'S INSTRUCTIONS WHENEVER POSSIBLE.
- ROOF TOP CONSTRUCTION: TOUCH UP – PREPARE SURFACES TO BE REPAIRED. FOLLOW INDUSTRY STANDARDS AND REQUIREMENTS OF LANDLORD TO MATCH EXISTING COATING AND FINISH.

**PAINTING APPLICATION:**

- INSPECT SURFACES, REPORT UNSATISFACTORY CONDITIONS IN WRITING; BEGINNING WORK MEANS ACCEPTANCE OF SUBSTRATE.
- COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR PREPARATION, PRIMING AND COATING WORK. COORDINATE WITH WORK OF OTHER SECTIONS.
- MATCH APPROVED MOCK-UPS FOR COLOR, TEXTURE, AND PATTERN. RE-COAT OR REMOVE AND REPLACE WORK WHICH DOES NOT MATCH OR SHOWS LOSS OF ADHESION.
- CLEAN UP, TOUCH UP AND PROTECT WORK.

**PAINTING AND TOUCHUP:**

- GALVANIZING DAMAGE AND ALL BOLTS AND NUTS SHALL BE TOUCHED UP AFTER TOWER ERECTION WITH "GALVANOX," "DRY GALV," OR "ZINC-IT."
- MONOPOLE BOLTS AND NUTS SHALL NOT BE PAINTED.
- FIELD TOUCHUP PAINT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- ALL COMPONENTS METAL SHALL BE HANDLED WITH CARE TO PREVENT DAMAGE TO THE COMPONENTS, THEIR PRESERVATIVE TREATMENT, OR THEIR PROTECTIVE COATINGS

**SECTION 11 700 – ANTENNA ASSEMBLY, REMOTE RADIO UNITS AND CABLE INSTALLATION: SUMMARY:**

THIS SECTION SPECIFIES INSTALLATION OF ANTENNAS, RRU'S, AND CABLE EQUIPMENT, INSTALLATION, AND TESTING OF COAXIAL FIBER CABLE AND WAVEGUIDE. ALL COAXIAL CABLE AND ASSOCIATED HARDWARE SHALL BE INSTALLED BY OR UNDER THE DIRECT SUPERVISION OF MANUFACTURER TRAINED AND CERTIFIED PERSONNEL.

**ANTENNAS AND REMOTE RADIO UNITS (RRU):**

INSTALL EQUIPMENT FURNISHED BY COMPANY. REFER TO THE DRAWINGS FOR TYPES AND QUANTITIES OF PANEL AND MICROWAVE ANTENNAS AND RRUS TO BE INSTALLED. JUMPERS AND CONNECTORS: FURNISH AND INSTALL 1/2" COAX JUMPER CABLES BETWEEN THE RRU'S AND ANTENNAS. JUMPERS SHALL BE TYPE LDF 4, FLC 12-50, CR 540, OR FXL 540. SUPER-FLEX CABLES ARE NOT ACCEPTABLE. JUMPERS BETWEEN THE RRU'S AND ANTENNAS OR TOWER TOP AMPLIFIERS SHALL CONSIST OF 1/2 INCH FOAM DIELECTRIC, OUTDOOR RATED COAXIAL CABLE. DO NOT USE SUPERFLEX OUTDOORS.

**HYBRID AND COAXIAL CABLE:**

INSTALL HYBRID DC/FIBER CABLE AND COAXIAL CABLES, INCLUDING CONNECTORS, JUMPERS, AND CABLE TERMINATING DEVICES FURNISHED BY COMPANY. CABLE SHALL BE DELIVERED TO THE JOB SITE OR TO THE COMPANY'S DESIGNATED LOCATION. CABLE SHALL BE INSTALLED PER THE CONSTRUCTION DRAWINGS AND THE APPLICABLE MANUFACTURER'S REQUIREMENTS.

**JUMPERS AND CONNECTORS:**

FURNISH AND INSTALL 1/2" COAX JUMPER CABLES BETWEEN THE RRU'S AND ANTENNAS. JUMPERS SHALL BE TYPE LDF 4, FLC 12-50, CR 540. SUPER-FLEX CABLES ARE NOT ACCEPTABLE. JUMPERS BETWEEN THE RRU'S AND ANTENNAS OR TOWER TOP AMPLIFIERS SHALL CONSIST OF 1/2" INCH FROM DIELECTRIC, OUTDOOR RATED COAXIAL CABLE. DO NOT USE SUPERFLEX OUTDOORS, JUMPERS SHALL BE FACTORY FABRICATED IN APPROPRIATE LENGTHS WITH A MAXIMUM OF 4 FEET EXCESS PER JUMPER AND HAVE CONNECTORS AT EACH END, MANUFACTURER BY SUPPLIER. IF JUMPERS ARE FILLED FABRICATED, FOLLOW MANUFACTURERS REQ'DS FOR INSTALLATION OF CONNECTORS.

**REMOTE ELECTRICAL TILT (RET) CABLES:****MISCELLANEOUS:**

INSTALL SPLITTERS, COMBINERS, FILTER PER RF DATA SHEET, FURNISHED BY SPRINT.

**ANTENNA INSTALLATION:**

THE CONTRACTOR SHALL ASSEMBLE ALL ANTENNAS ONSITE IN ACCORDANCE WITH THE THE INSTRUCTIONS SUPPLIED BY THE THE MANUFACTURER. ANTENNA HEIGHT, AZIMUTH, AND FEED ORIENTATION INFORMATION SHALL BE A DESIGNATED ON THE CONSTRUCTION DRAWINGS.
 

- THE CONTRACTOR SHALL POSITION THE ANTENNA ON THE TOWER PIPE MOUNTS SO THAT THE BOTTOM STRUT IS LEVEL. THE PIPE MOUNTS SHALL BE PLUMB TO WITHIN 1 DEGREE.
- ANTENNA MOUNTING REQUIREMENTS: PROVIDE ANTENNA MOUNTING HARDWARE AS INDICATED ON THE DRAWINGS.

**STRUCTURAL STEEL NOTES:**

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST REVISED EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION, WHICH INCLUDES THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, THE CODE OF STANDARD PRACTICE AND THE AWS STRUCTURAL WELDING CODE.
- STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER OF RECORD PRIOR TO FABRICATION IN ACCORDANCE WITH AISC 360, CHAPTER N3.
- MATERIAL SPECIFICATIONS:
 

W SHAPES:	ASTM A992 GRADE 50
C, M, ANGLE, BARS, AND PLATES:	ASTM A36
TUBE STEEL:	ASTM A500, GRADE B
PIPE COLUMNS:	ASTM A53, GRADE B
- SPECIAL INSPECTION OF THE FABRICATION AND IMPLEMENTATION PROCEDURES SHALL BE PERFORMED IN ACCORDANCE WITH AISC 360, CHAPTER N2.
- ALL WELDING SHALL BE ACCOMPLISHED USING THE SHIELDED METAL ARC WELDING PROCESS WITH E70XX ELECTRODES OR THE SUBMERGED ARC WELDING PROCESS WITH E7X-EXXX ELECTRODES. LOW HYDROGEN ELECTRODES SHALL BE PREHEATED IN ACCORDANCE WITH AWS STANDARDS.
- ALL WELDING SHALL BE UNDER INSPECTED IN ACCORDANCE WITH AISC 360, TABLES N5.4-1, N5.4-2, AND N5.4-3 BY A REGISTERED SPECIAL INSPECTOR. WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS. WELDERS SHALL HAVE LIGHT GAUGE STEEL CERTIFICATION WHEN WELDING LIGHT GAUGE STEEL.
- ALL EXPOSED WELDS SHALL BE FILLED AND GROUND SMOOTH WHERE METAL COULD COME IN CONTACT WITH THE PUBLIC.
- ALL SHOP AND FIELD BOLTED CONNECTIONS SHALL BE IN ACCORDANCE WITH ASTM A-307 USING UNFINISHED AMERICAN STANDARD REGULAR BOLTS, UNLESS OTHERWISE NOTED.
- NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THRU STRUCTURAL STEEL MEMBERS. BOLT HOLES SHALL CONFORM TO AISC SPECIFICATION, AND SHALL BE STANDARD HOLES UNLESS OTHERWISE NOTED. NO CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT PRIOR CONSENT OF THIS ENGINEER.
- ALL EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED.

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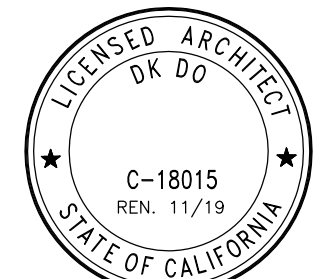
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32 EXECUTIVE PARK | SUITE 110  
IRVINE | CA 92614

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100% CD (FINAL CD)	10/16/17	FV	0
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ADDITIONAL COMMENTS	07/25/18	HT	2
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MINOR PLANNING COMMENTS	10/15/19	FV	6

SITE NAME:

AGOURA HILLS

SITE CASCADE:

LA03XC200

SITE ADDRESS:

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AGOURA HILLS, CA 91301

SHEET DESCRIPTION:

SPECIFICATIONS

SHEET NUMBER:

SP1

**HYBRID AND COAXIAL CABLE INSTALLATION:**

- A. THE CONTRACTOR SHALL ROUTE, TEST, AND INSTALL ALL COAXIAL CABLES AS INDICATED ON THE CONSTRUCTION DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- B. THE INSTALLED RADIUS OF THE CABLES SHALL NOT BE LESS THAN THE MANUFACTURER'S SPECIFICATIONS FOR BENDING RADI.
- C. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE CABLES DURING HANDLING AND INSTALLATION.
- 1. FASTENING MAIN HYBRID CABLES SHALL BE PERMANENTLY FASTENED TO THE COAX LADDER AT 4'-0" OC USING NON-MAGNETIC STAINLESS STEEL CLIPS.
- 2. FASTENING INDIVIDUAL FIBER AND DC CABLES ABOVE BREAKOUT ENCLOSURE (MEDUSA), WITHIN THE MMBS CABINET AND ANY INTERMEDIATE DISTRIBUTION BOXES:
  - a. FIBER: SUPPORT FIBER BUNDLES USING ½" VELCO STRAPS OF THE REQUIRED LENGTH ON 18" CENTERS. VELCRO STRAPS SHALL BE OIL, UV AND WATER RESISTANT AND SUITABLE FOR INDUSTRIAL INSTALLATIONS AS MANUFACTURED BY TEXTOL OR EQUAL.
  - b. DC: SUPPORT DC BUNDLES WITH ZIP-TIES OF ADEQUATE LENGTH. ZIP-TIES SHALL BE UV STABILIZED, BLACK NYLON WITH A TENSILE STRENGTH OF 12,000 PSI AS MANUFACTURED BY NELCO PRODUCTS OR EQUAL.
- 3. FASTENING JUMPERS: SECURE JUMPERS TO THE SIDE ARMS OR HEAD FRAMES USING STAINLESS STEEL TIE WRAPS ON STAINLESS STEEL BUTTERFLY CLIPS.
- 4. CABLE INSTALLATION:
  - A. CABLE CONNECTIONS:
    - a. CLEAN FIBER CONNECTORS AS REQUIRED IN EL-0568.
    - b. FOR FIELD FABRICATIONS USE ONLY CABLE CONNECTORS RECOMMENDED BY THE CABLE MANUFACTURER AND REQUIRED BY THE EQUIPMENT BEING CONNECTED.
    - c. EXCEPT AS OTHERWISE REQUIRED, CONNECTORS FOR ALL MAIN STATION ANTENNA CABLES SHALL BE 7/16 DIN.
    - d. EXCEPT AS OTHERWISE REQUIRED, CONNECTORS FOR GPS ANTENNAS SHALL BE TYPE N.
    - e. CONNECTORS FOR MICROWAVE ANTENNAS, UNLESS OTHERWISE NOTED, SHALL BE TYPE N.
    - f. INSTALL AND TIGHTEN CONNECTORS PER MANUFACTURER'S INSTRUCTIONS.
  - B. COLOR CODING OF CABLES: ALL CABLES SHALL BE COLOR CODED WITH 2 INCH BANDS OF DOUBLE WRAPPED UV RESISTANT COLORED TAPE EXCEPT AS OTHERWISE REQUIRED IN THE INSTALLATION MOPS. AS INDICATED ON THE DRAWINGS IN THE RF DATA SHEETS. ALL CABLES SHALL BE COLOR CODED AT THE TOP, BOTTOM, BOTH SIDES OF THE ENTRY PORT AND ALL LOCATIONS WHERE THE CABLE PENETRATES A WALL, CEILING OR FLOOR. INDIVIDUAL FIBER AND DC BUNDLES BEYOND HYBRID CABLE BREAKOUT POINTS SHALL BE COLOR CODED PER THE RF DATA SHEETS ON THE DRAWINGS.
  - C. ALPHA-NUMERIC LABELING OF CABLES: COMPLY WITH EN-2012-001 REV. 1.

**WEATHERPROOFING CONNECTORS AND GROUND KITS:**

- A. ALL COAX CONNECTORS, FIBER CONNECTORS AND INSTALLED CABLE GROUND KITS SHALL BE WEATHERPROOFED USING ONE OF THE FOLLOWING METHODS. ALL INSTALLATIONS MUST BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INDUSTRY BEST PRACTICES.
  - 1. COLD SHRINK: ENCOMPASS CONNECTOR IN COLD SHRINK TUBING AND PROVIDE A DOUBLE WRAP OF 2"ELECTRICAL TAPE EXTENDING 2" BEYOND TUBING. PROVIDE 3M COLD SHRINK CXS SERIES OR EQUAL.
  - 2. SELF-AMALGAMATING TAPE: CLEAN SURFACES. APPLY A DOUBLE WRAP OF SELF-AMALGAMATING TAPE 2" BEYOND CONNECTOR. APPLY A SECOND WRAP OF SELF-AMALGAMATING TAPE IN OPPOSITE DIRECTION. APPLY DOUBLE WRAP OF 2" WIDE ELECTRICAL TAPE EXTENDING 2" BEYOND THE SELF-AMALGAMATING TAPE.
  - 3. 3M SLIM LOCK CLOSURE 716. SUBSTITUTIONS WILL NOT BE ALLOWED.
  - 4. HEAT SHRINK TUBING REQUIRING OPEN FLAME ON THE SITE IS NOT ACCEPTABLE.

**SECTION 11 800 – MULTIMODAL BASE STATIONS (MMBS) AND RELATED EQUIPMENT**

- SUMMARY:**
- A. THIS SECTION SPECIFIES BTS AND RELATED EQUIPMENT FURNISHED BY THE COMPANY FOR INSTALLATION BY THE CONTRACTOR (OFC).
  - B. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MISCELLANEOUS MATERIALS AND LABOR REQUIRED FOR INSTALLATION OF THE BTS CABINET AND RELATED EQUIPMENT.
  - C. ALL WORK PROVIDED BY CONTRACTOR SHALL BE IN COMPLIANCE WITH THE CONSTRUCTION DRAWINGS AND DETAILS, SITE SPECIFIC CONTRACT DOCUMENTS, AND THESE SPECIFICATIONS.

**DESCRIPTION OF WORK:**

- A. THE NUMBER OF CABINETS INSTALLED AT EACH SITE IS SHOWN ON THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL INSTALL MOUNTING BASES, BTS CABINETS, POWER CABINETS, BATTERY AND OTHER EQUIPMENT AS SHOWN ON THE CONSTRUCTION DRAWINGS.
- B. THE NUMBER OF RELATED COAX CABLES TO BE INSTALLED AT EACH SITE IS INDICATED ON THE CONSTRUCTION DRAWINGS AND/OR THE RF CONFIGURATION SHEET FOR THE SITE.

**DELIVERY:**

CONTRACTOR SHALL RECEIVE NOTIFICATION FROM SPRINT OR ITS COMPANY DESIGNATED REPRESENTATIVE THAT THE SITE IS READY FOR RADIO EQUIPMENT INSTALLATION. CONTRACTOR SHALL COORDINATE WITH COMPANY FOR THE DELIVERY OF RADIO EQUIPMENT TO THE SITE. CONTRACTOR SHALL TAKE RECEIPT AND ACCEPT RESPONSIBILITY FOR THE RADIO EQUIPMENT UPON DELIVERY. CONTRACTOR SHALL VERIFY ALL PARTS, AND INSPECT FOR DAMAGE USING SPRINT DAMAGE, RECEIVING, AND NOTIFICATION FORM AND PROCESS. CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE, INSURANCE, DAMAGE, SHORTAGE, AND LOSS OF THE RADIO EQUIPMENT FROM TIME OF RECEIPT THROUGH THE TIME WHEN SPRINT ACCEPTS THE WORK.

**MULTIMODAL BASE STATION EQUIPMENT:**

- A. INSTALL CABINETS AND COMPONENTS INCLUDING BASE BAND UNITS, CELL SITE ROUTERS, RECTIFIERS AND SIMILAR EQUIPMENT AS INDICATED ON THE DRAWINGS AND REQUIRED BY THE APPLICABLE INSTALLATION MOPS.

**SUPPORTING DEVICES:**

- A. INSTALL SUPPORTING DEVICES TO FASTEN ELECTRICAL COMPONENTS SECURELY AND PERMANENTLY IN ACCORDANCE WITH NEC.
- B. COORDINATE WITH THE BUILDING STRUCTURAL SYSTEM AND WITH OTHER TRADES.
- C. RACEWAY SUPPORTS SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS FOR SELECTION AND INSTALLATION OF SUPPORTS.
- D. THE STRENGTH OF EACH SUPPORT SHALL BE ADEQUATE TO CARRY THE PRESENT AND FUTURE LOAD MULTIPLIED BY A SAFETY FACTOR OF AT LEAST FOUR. WHERE THIS DETERMINATION RESULTS IN A SAFETY ALLOWANCE OF LESS THAN 200 POUNDS, PROVIDE ADDITIONAL STRENGTH UNTIL THERE IS A MINIMUM OF 200 POUNDS SAFETY ALLOWANCE IN THE STRENGTH OF EACH SUPPORT.
- E. INSTALL INDIVIDUAL AND MULTIPLE (TRAPEZE) RACEWAY HANGERS AND RISER CLAMPS AS NECESSARY TO SUPPORT THE RACEWAYS. PROVIDE U-BOLTS, CLAMPS, ATTACHMENTS, AND OTHER HARDWARE NECESSARY FOR HANGER ASSEMBLY AND FOR SECURING HANGER RODS AND CONDUITS.

**ELECTRICAL IDENTIFICATION PRODUCTS:**

- A. UNDERGROUND LINE MARKING TAPE: PERMANENT, RED-COLORED, CONTINUOUS-PRINTED, PLASTIC TAPE COMPOUNDED FOR DIRECT-BURIAL SERVICE NOT LESS THAN 6 INCHES (152 MM) WIDE BY 4 MILS (0.1 MM) THICK.
- B. PAINT FERROUS CONDUITS IN EARTH: APPLY THREAD LUBRICANT/SEALANT TO ALL JOINTS. PAINT EXTERIOR OF CONDUIT SYSTEM WITH TWO COATS OF BLACK ASPHALTUM, SHERWIN-WILLIAMS OR EQUAL.

**SECTION 26 200 – ELECTRICAL MATERIALS AND EQUIPMENT**

**CONDUIT:**

- A. RIGID GALVANIZED STEEL (RGS) CONDUIT SHALL BE USED FOR EXTERIOR LOCATIONS ABOVE GROUND AND IN UNFINISHED INTERIOR LOCATIONS, AND FOR ENCASED RUNS IN CONCRETE. RIGID CONDUIT SHALL BE STEEL, COATED WITH ZINC EXTERIOR AND INTERIOR BY THE HOT DIP GALVANIZING PROCESS. CONDUIT SHALL BE PRODUCED TO ANSI SPECIFICATIONS C80.1, FEDERAL SPECIFICATION WW-C-581 AND SHALL BE LISTED WITH THE UNDERWRITERS' LABORATORIES. RGS CONDUITS SHALL BE MANUFACTURED BY ALLIED, REPUBLIC OR WHEATLAND AND SHALL BE GROUNDED PER CURRENT NEC SPECIFICATIONS. CONDUIT AND FITTINGS SHALL BE PRODUCED BY THE SAME MANUFACTURER, WHO SHALL HAVE A MINIMUM OF FIVE YEARS' EXPERIENCE PRODUCING THE MATERIAL.
- B. EXTERIOR UNDERGROUND CONDUIT SHALL BE POLYVINYLCHLORIDE (PVC) SCHEDULE 80 OR DIRECT BURIAL RATED. JOINTS SHALL BE BELLED, AND FLUSH SOLVENT WELDED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CONDUIT SHALL BE CARLON ELECTRICAL PRODUCTS OR EQUAL. CONDUIT AND FITTINGS SHALL BE PRODUCED BY THE SAME MANUFACTURER, WHO SHALL HAVE A MINIMUM OF FIVE YEARS' EXPERIENCE PRODUCING THE MATERIAL.
- C. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN CONCEALED SPACES ABOVE CEILINGS OR WITHIN WALLS AND IN SPRINT SHELTERS. EMT SHALL BE MILD STEEL, ELECTRICALLY WELDED, ELECTRO-GALVANIZED OR HOT-DIPPED GALVANIZED AND PRODUCED TO ANSI SPECIFICATION C80.3, FEDERAL SPECIFICATION WW-C-563, AND SHALL BE UL LISTED. EMT SHALL BE MANUFACTURED BY ALLIED, REPUBLIC OR WHEATLAND, OR EQUAL.
- D. LIQUID TIGHT FLEXIBLE METALLIC CONDUITS MAY BE USED FOR FINAL CONNECTION TO EQUIPMENT. MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL NOT EXCEED 6 FEET IN LENGTH. FLEXIBLE CONDUITS SHALL NOT BE USED WHERE SUBJECT TO MECHANICAL DAMAGE AND SHALL BE SUPPORTED AS REQUIRED BY NEC. MANUFACTURERS OF FLEXIBLE CONDUITS SHALL BE CAROL, ANACONDA METAL HOSE (HYPAN) OR UNIVERSAL METAL HOSE, SOUTHWIRE, OR EQUAL. LIQUID TIGHT FLEXIBLE CONDUIT (LMFC) SHALL BE UL LISTED, OIL RESISTANT, SUNLIGHT RESISTANT, WATERPROOF, AND TEMPERATURE RATED -30C TO +80C.
- E. MINIMUM SIZE CONDUIT SHALL BE 3/4 INCH.

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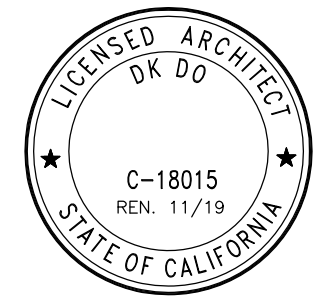
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36 EXECUTIVE PARK, SUITE 210  
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ARCHITECT LICENSE:



REVISIONS:

DESCRIPTION:	DATE:	BY:	REV:
90% CD (PRELIM CD)	10/03/17	MT	A
100% CD (FINAL CD)	10/16/17	FV	0
SCOPE CHANGE	05/13/18	FV	1
ADDITIONAL COMMENTS	07/25/18	HT	2
ANTENNA AND RRH SCOPE CHANGE	04/25/19	FV	3
MIMO SCOPE CHANGE	07/05/19	FV	4
MINOR PLANNING COMMENTS	07/19/19	FV	5
MINOR PLANNING COMMENTS	10/15/19	FV	6

SITE NAME:

AGOURA HILLS

SITE CASCADE:

LA03XC200

SITE ADDRESS:

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AGOURA HILLS, CA 91301

SHEET DESCRIPTION:

SPECIFICATIONS AND  
EQUIPMENT LIST

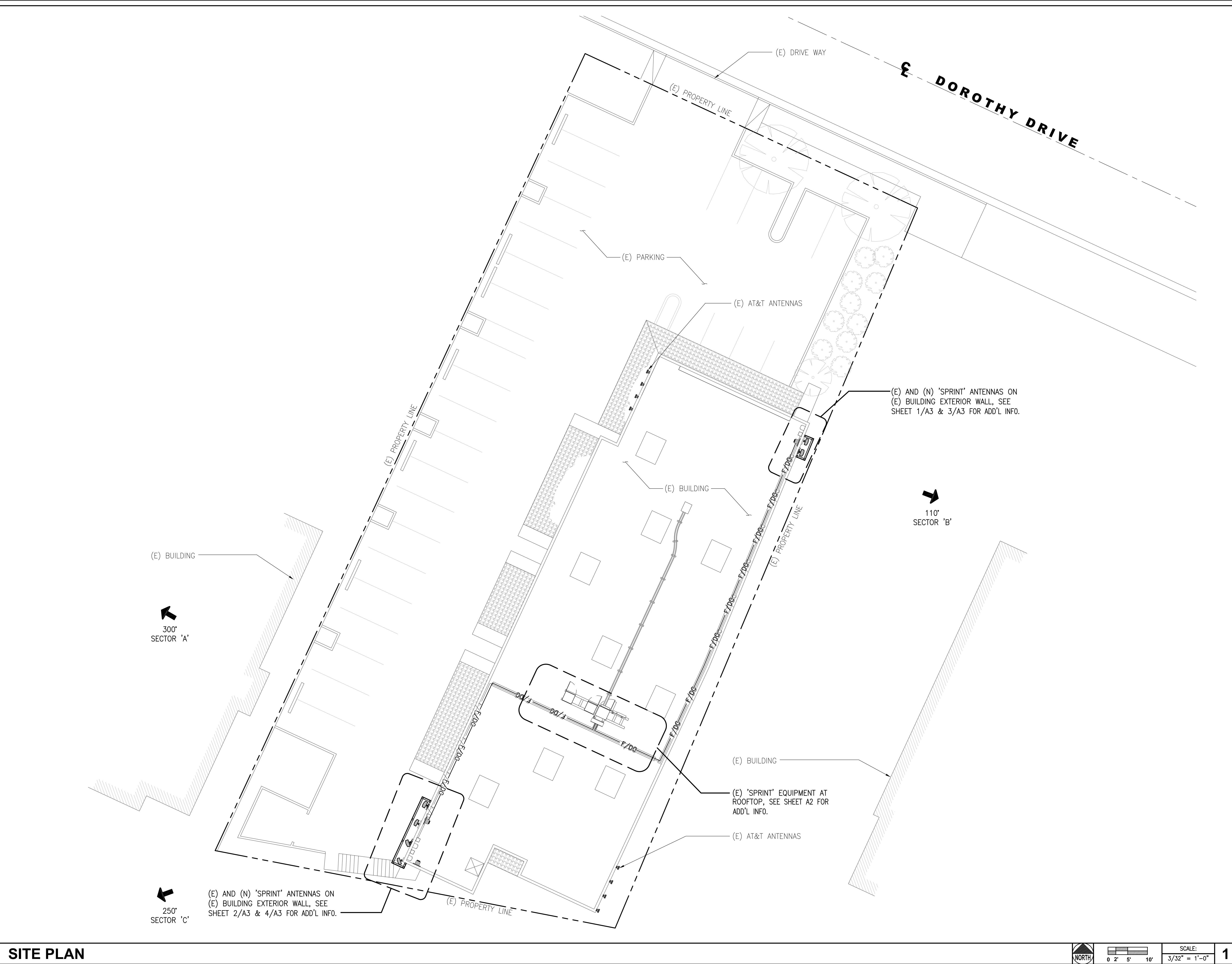
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**FINAL ANTENNA AND RRH TABULATION**

EQUIPMENT TYPE	EXISTING	NEW	REMOVAL	TOTAL	WEIGHT (APPROX.) LBS	
					PER UNIT	TOTAL
800-1900MHZ ANTENNA (APXVSP18-C)	3		3	0	57.0	0.00
MIMO ANTENNA (AIRSCALE MAA 64T64R...AAHF)		3		3	103.6	310.80
800-1900MHZ ANTENNA (APXVBLL15X_43-C-120)		3		3	64.0	192.00
1900 MHZ RRH	3			3	44.0	132.00
800 MHZ RRH	3	3		6	64.0	384.00

DO MACRO - MIMO & 2ND 800MHZ ±43'-6" BUILDING



300'  
SECTOR 'A'

110'  
SECTOR 'B'

250'  
SECTOR 'C'

(E) AND (N) 'SPRINT' ANTENNAS ON  
(E) BUILDING EXTERIOR WALL, SEE  
SHEET 2/A3 & 4/A3 FOR ADD'L INFO.

(E) AND (N) 'SPRINT' ANTENNAS ON  
(E) BUILDING EXTERIOR WALL, SEE  
SHEET 1/A3 & 3/A3 FOR ADD'L INFO.

(E) 'SPRINT' EQUIPMENT AT  
ROOFTOP, SEE SHEET A2 FOR  
ADD'L INFO.

**SITE PLAN**

NORTH  
0 2' 5' 10'  
SCALE:  
3/32" = 1'-0"  
**1**

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**A|E|C WORKS**  
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IRVINE | CA 92614

OEM:

SAC:  
**SURESITE**  
36 EXECUTIVE PARK, SUITE 210  
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ARCHITECT LICENSE:

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100% CD (FINAL CD)	10/16/17	FV	0
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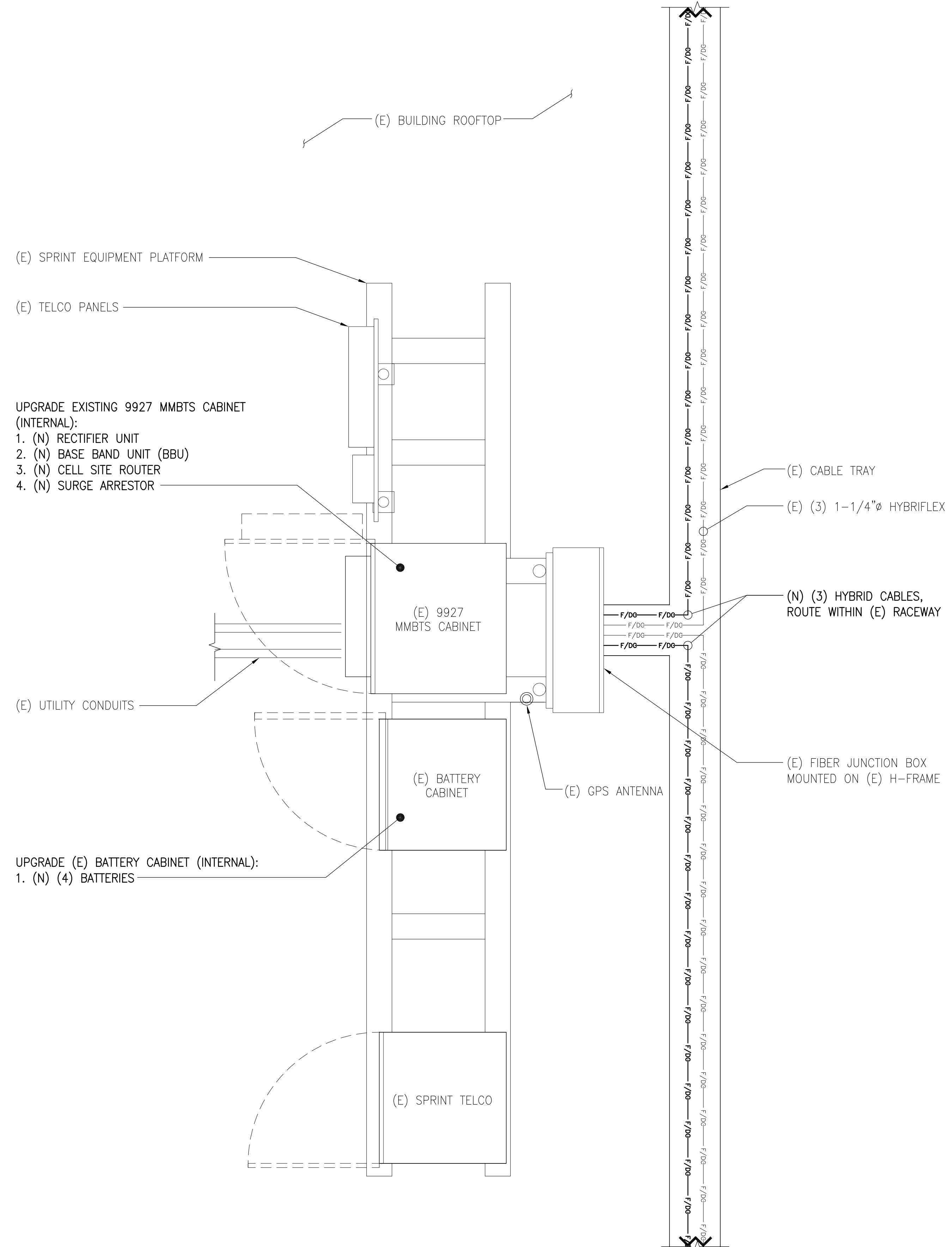
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**LA03XC200**

SITE ADDRESS:  
**28030 DOROTHY DR  
AGOURA HILLS, CA 91301**

SHEET DESCRIPTION:  
**SITE PLAN**

SHEET NUMBER:  
**A1**

NOTES:  
 1. GC TO VERIFY IF ADDITIONAL RADIO EQUIPMENT/CARD IS NEEDED AND INSTALL WITHIN EXISTING CABINET AS REQUIRED



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SHEET DESCRIPTION:

EQUIPMENT LAYOUT PLAN

SHEET NUMBER:

A2


DO MACRO - MIMO & 2ND 800MHZ ±43'-6" BUILDING

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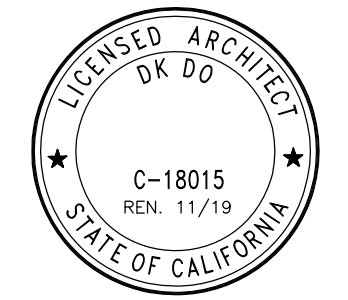
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MIMO SCOPE CHANGE	07/05/19	FV	4
MINOR PLANNING COMMENTS	07/19/19	FV	5
MINOR PLANNING COMMENTS	10/15/19	FV	6

SITE NAME:

AGOURA HILLS

SITE CASCADE:

LA03XC200

SITE ADDRESS:

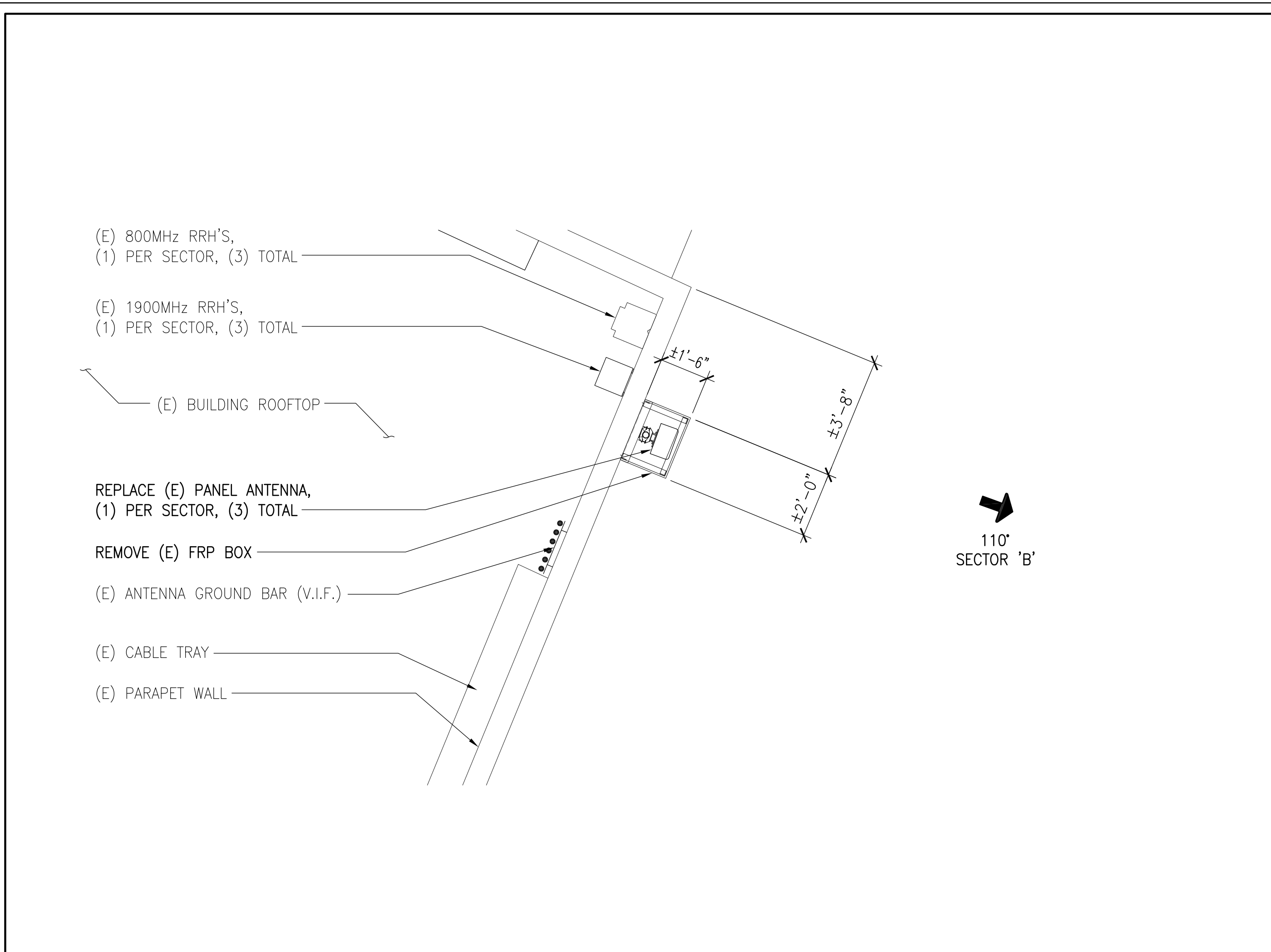
28030 DOROTHY DR  
AGOURA HILLS, CA 91301


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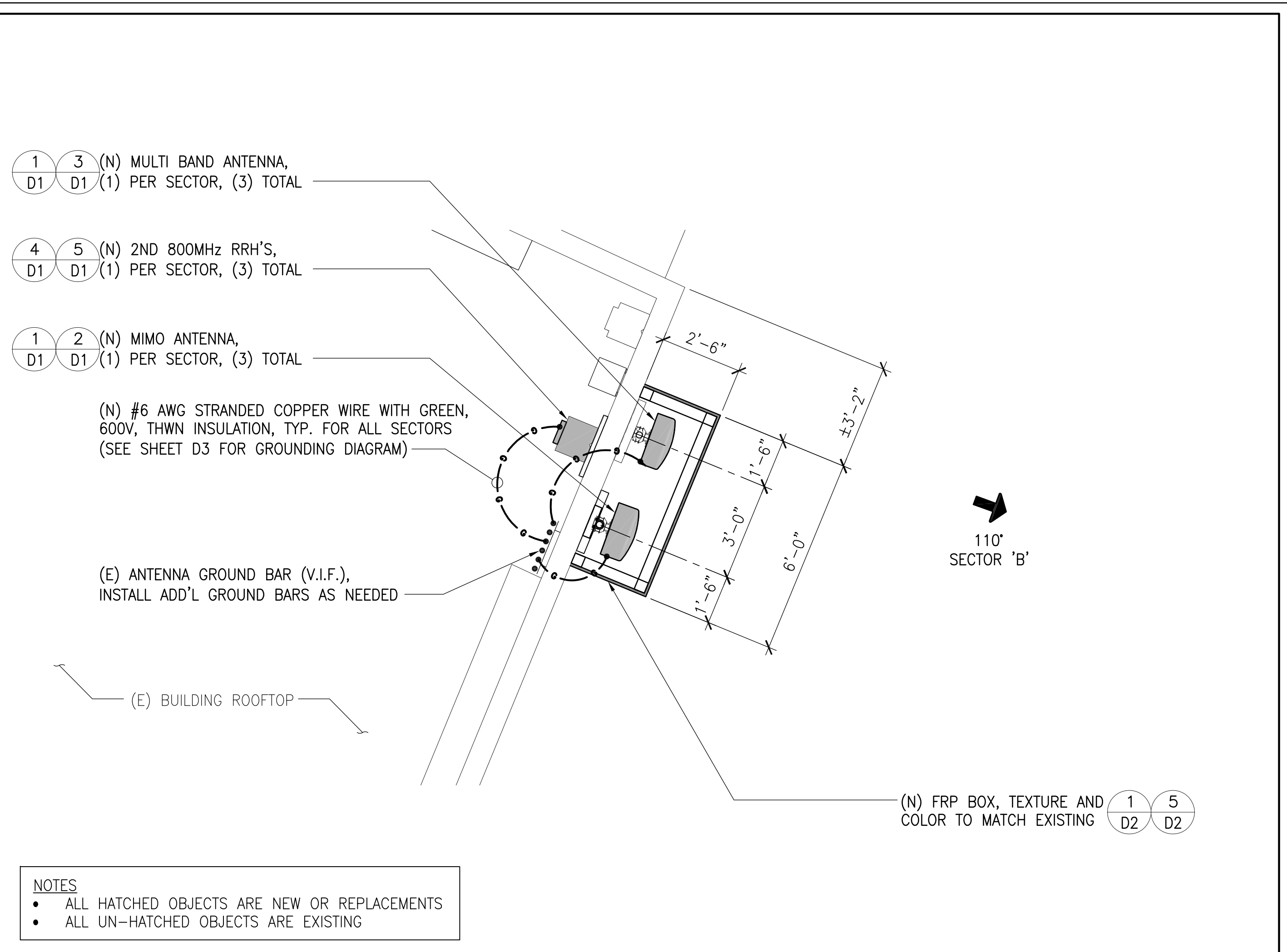
ANTENNA LAYOUT PLANS


SHEET NUMBER:

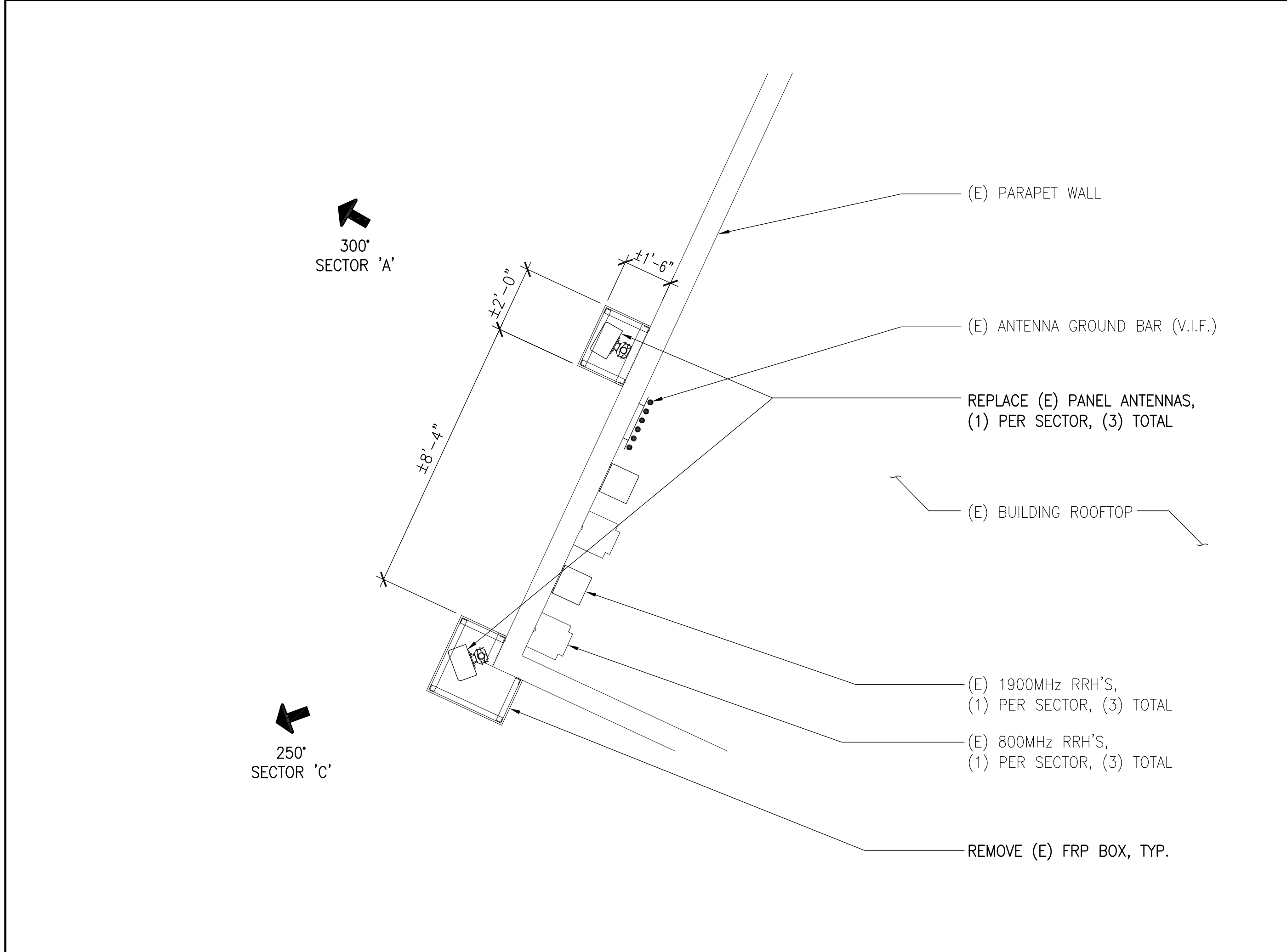
A3




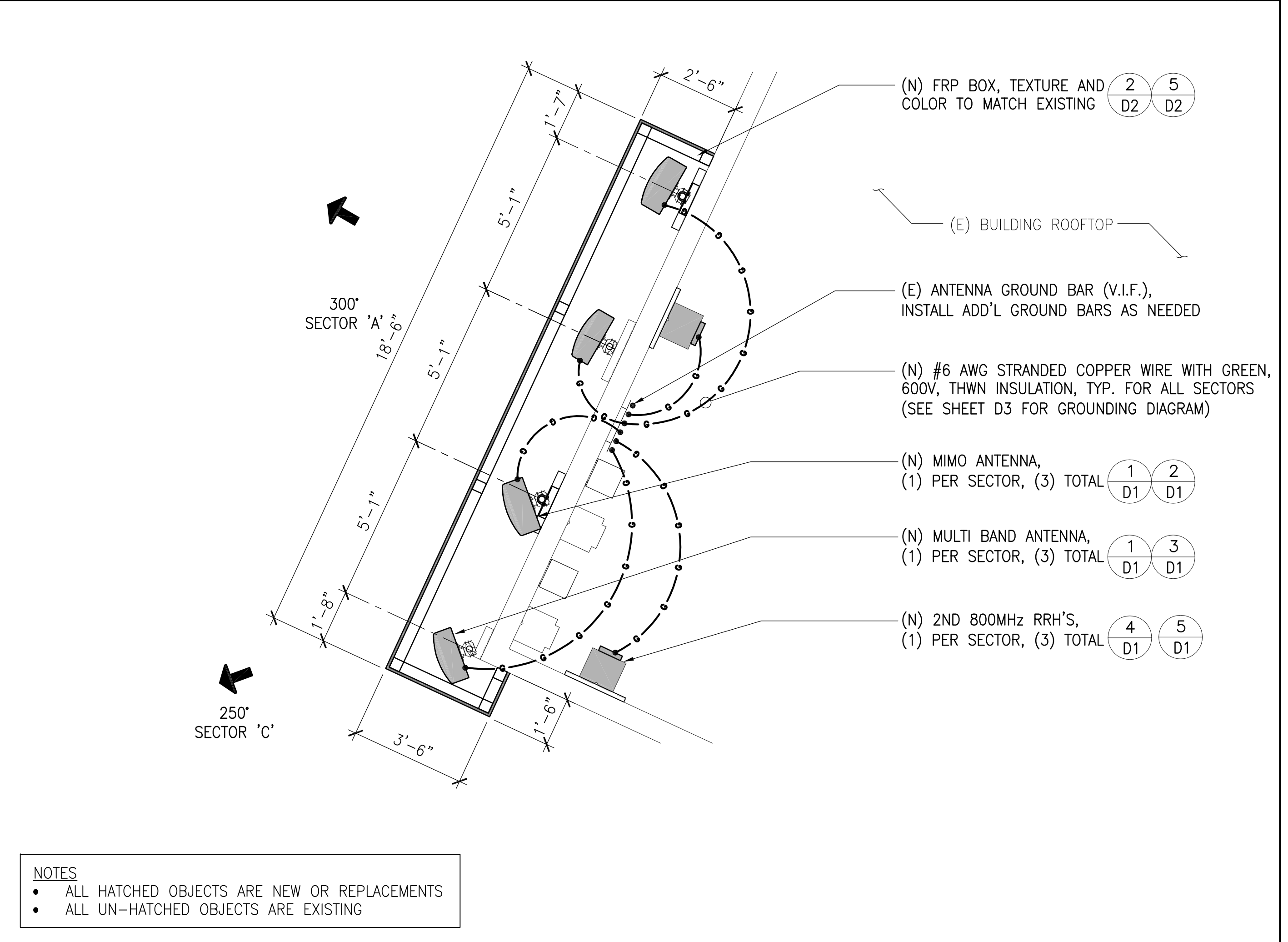
**EXISTING ANTENNA LAYOUT (SECTOR 'B')**  SCALE: 3/8" = 1'-0" **3**




**NEW ANTENNA LAYOUT (SECTOR 'B')**  SCALE: 3/8" = 1'-0" **1**



**EXISTING ANTENNA LAYOUT (SECTOR 'A' & 'C')**  SCALE: 3/8" = 1'-0" **4**

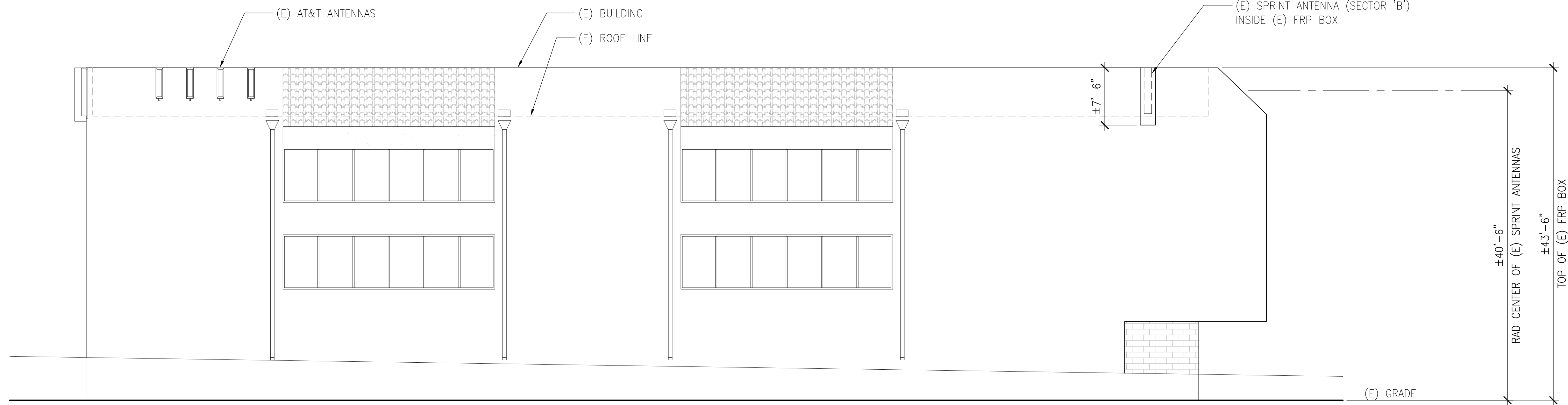


**NEW ANTENNA LAYOUT (SECTOR 'A' & 'C')**  SCALE: 3/8" = 1'-0" **2**

NOTES

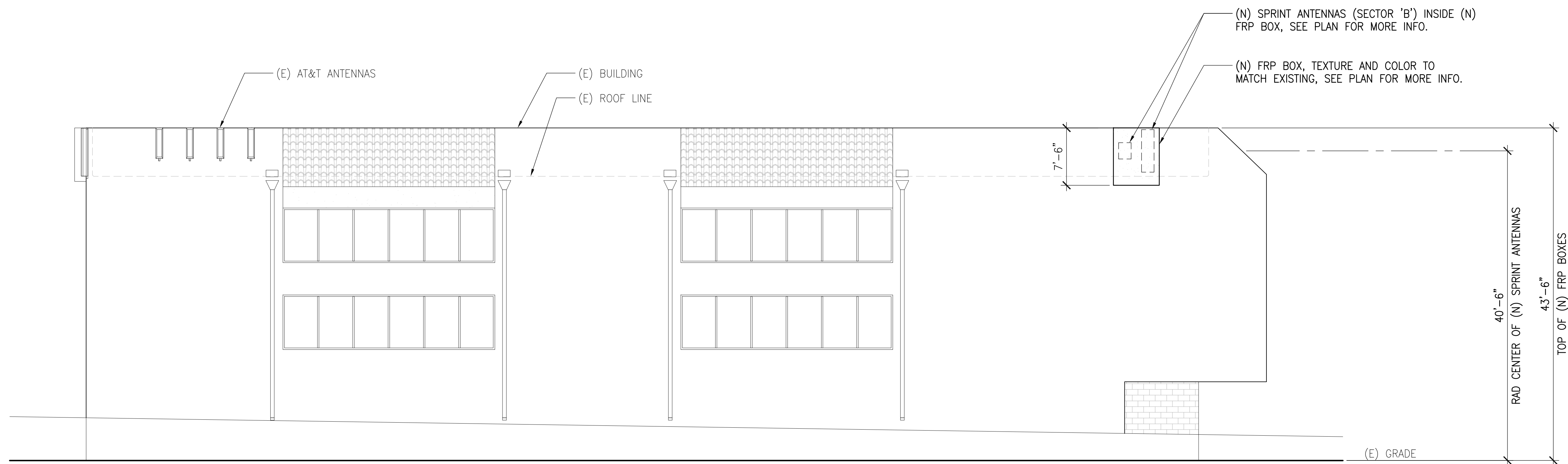
- ALL HATCHED OBJECTS ARE NEW OR REPLACEMENTS
- ALL UN-HATCHED OBJECTS ARE EXISTING

DO MACRO - MIMO & 2ND 800MHZ ±43'-6" BUILDING



**EXISTING EAST ELEVATION**

SCALE: 1/8" = 1'-0" **1**



**NEW EAST ELEVATION**

SCALE: 1/8" = 1'-0" **2**

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 310 COMMERCE, SUITE 250  
 IRVINE, CA 92602  
 PHONE: (714) 617-9342

PLANS PREPARED BY:  
**DCI PACIFIC**  
**A|E|C WORKS**  
 ARCHITECTURE | ENGINEERING | CONSULTING  
 32 EXECUTIVE PARK | SUITE 110  
 IRVINE | CA 92614

OEM:

SAC:  
  
**SURESITE**  
 36 EXECUTIVE PARK, SUITE 210  
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ARCHITECT LICENSE:

REVISIONS:	DESCRIPTION:	DATE:	BY:	REV:
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	100% CD (FINAL CD)	10/16/17	FV	0
	SCOPE CHANGE	05/13/18	FV	1
	ADDITIONAL COMMENTS	07/25/18	HT	2
	ANTENNA AND RRH SCOPE CHANGE	04/25/19	FV	3
	MIMO SCOPE CHANGE	07/05/19	FV	4
	MINOR PLANNING COMMENTS	07/19/19	FV	5
	MINOR PLANNING COMMENTS	10/15/19	FV	6

SITE NAME:  
**AGOURA HILLS**

SITE CASCADE:  
**LA03XC200**

SITE ADDRESS:  
**28030 DOROTHY DR  
 AGOURA HILLS, CA 91301**

SHEET DESCRIPTION:  
**ELEVATIONS**

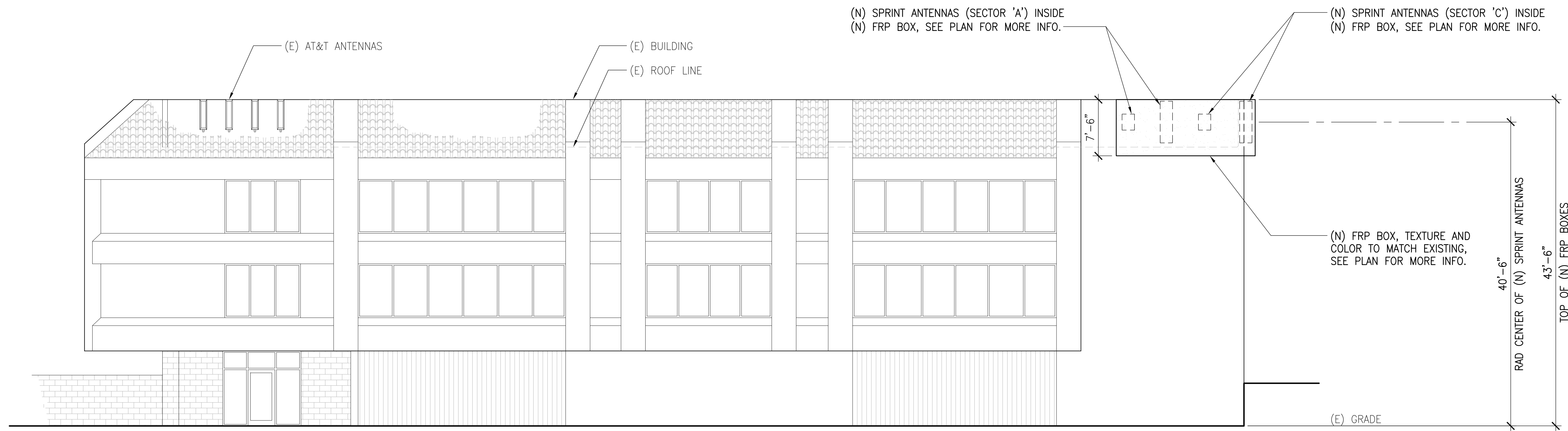
SHEET NUMBER:  
**A 4**

DO MACRO - MIMO & 2ND 800MHZ ±43'-6" BUILDING



**EXISTING WEST ELEVATION**

SCALE: 1/8" = 1'-0" **1**



**NEW WEST ELEVATION**

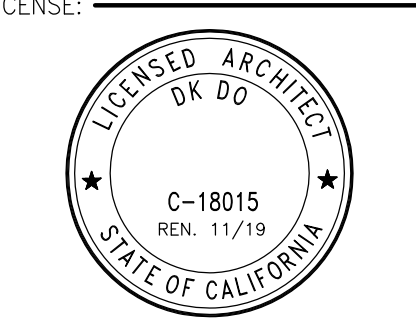
SCALE: 1/8" = 1'-0" **2**

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 IRVINE, CA 92602  
 PHONE: (714) 617-9342

PLANS PREPARED BY:  
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**A|E|C WORKS**  
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SAC:  
  
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 IRVINE, CA 92614

ARCHITECT LICENSE:  


REVISIONS:	DESCRIPTION:	DATE:	BY:	REV:
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	100% CD (FINAL CD)	10/16/17	FV	0
	SCOPE CHANGE	05/13/18	FV	1
	ADDITIONAL COMMENTS	07/25/18	HT	2
	ANTENNA AND RRH SCOPE CHANGE	04/25/19	FV	3
	MIMO SCOPE CHANGE	07/05/19	FV	4
	MINOR PLANNING COMMENTS	07/19/19	FV	5
	MINOR PLANNING COMMENTS	10/15/19	FV	6

SITE NAME:  
**AGOURA HILLS**

SITE CASCADE:  
**LA03XC200**

SITE ADDRESS:  
**28030 DOROTHY DR  
 AGOURA HILLS, CA 91301**

SHEET DESCRIPTION:  
**ELEVATIONS**

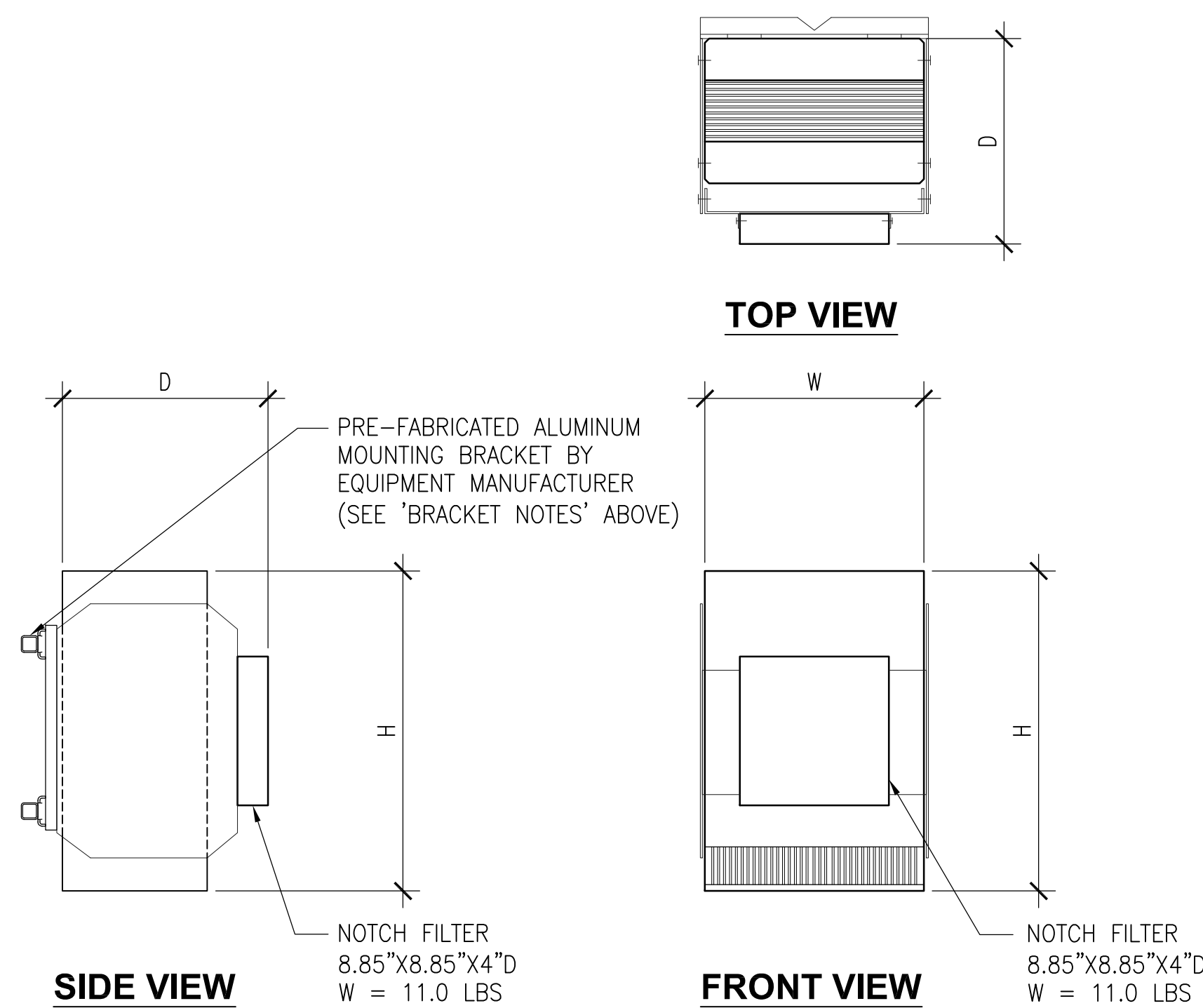
SHEET NUMBER:  
**A5**



DO MACRO - MIMO & 2ND 800MHZ ±43'-6" BUILDING

MANUFACTURER: ALCATEL-LUCENT  
 MODEL NO: 800MHz 2X50W  
 HEIGHT: 19.0" (480 mm)  
 WIDTH: 13.0" (330 mm)  
 DEPTH: 12.2" (310 mm)  
 WEIGHT W/O FILTER: 53 lbs  
 WEIGHT W/ FILTER: 64 lbs

**BRACKET NOTES:**  
 1. ALLOWABLE SIZE RANGE = 50-120MM  
 2. USE STAINLESS STEEL 'NORD-LOCK' WASHERS FOR SECURING SCREWS  
 3. MATERIAL TO BE ANODIZED ALUMINUM  
 4. DESIGNED FOR PIPE-MOUNT OR WALL-MOUNT SOLUTION

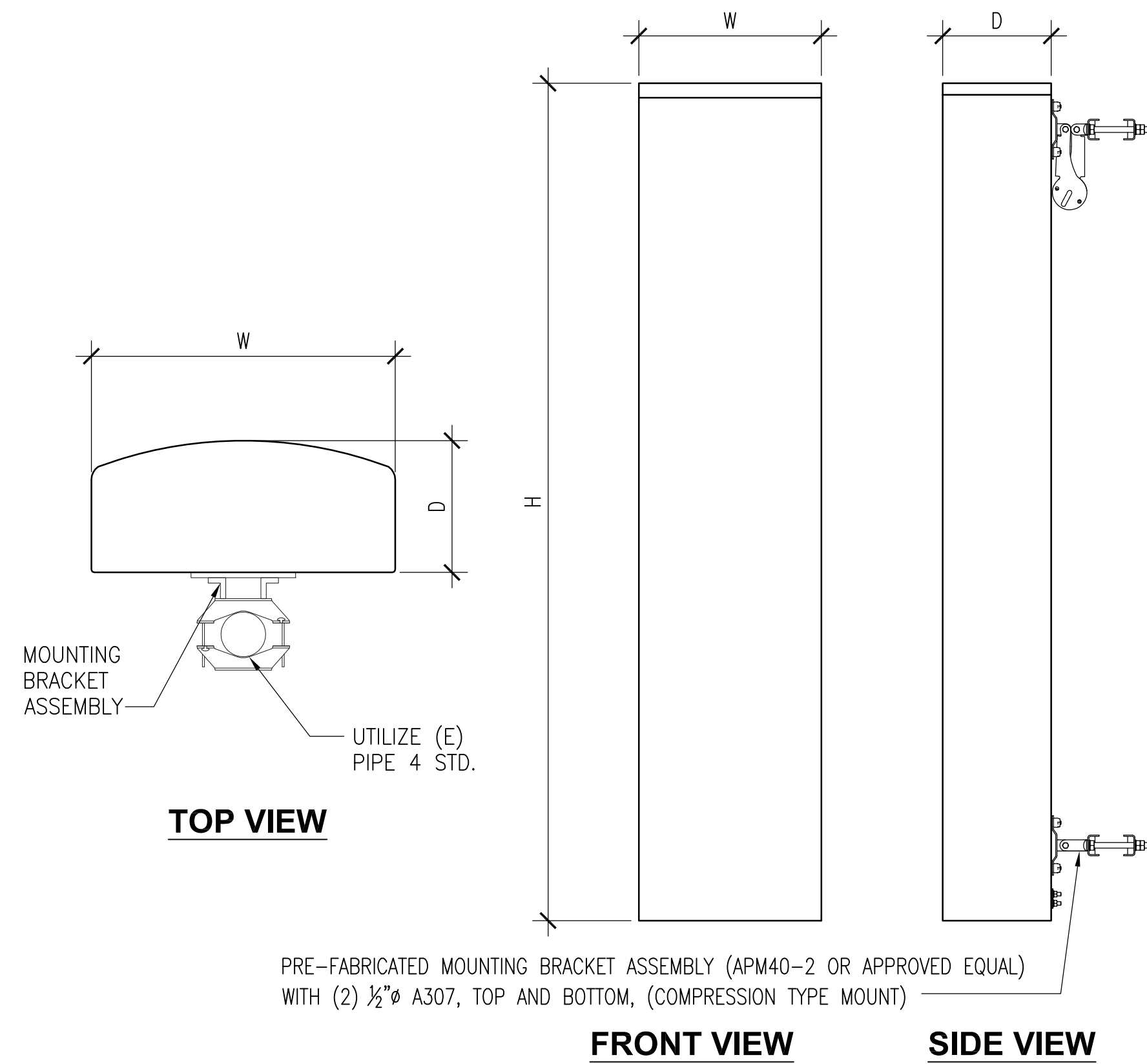


**NOTES:**  
 COMPLY WITH MANUFACTURERS INSTRUCTION TO ENSURE THAT ALL RRH'S RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING. DO NOT OPEN RRH PACKAGES IN THE RAIN.

**800MHz REMOTE RADIO HEAD (RRH) SPECS**

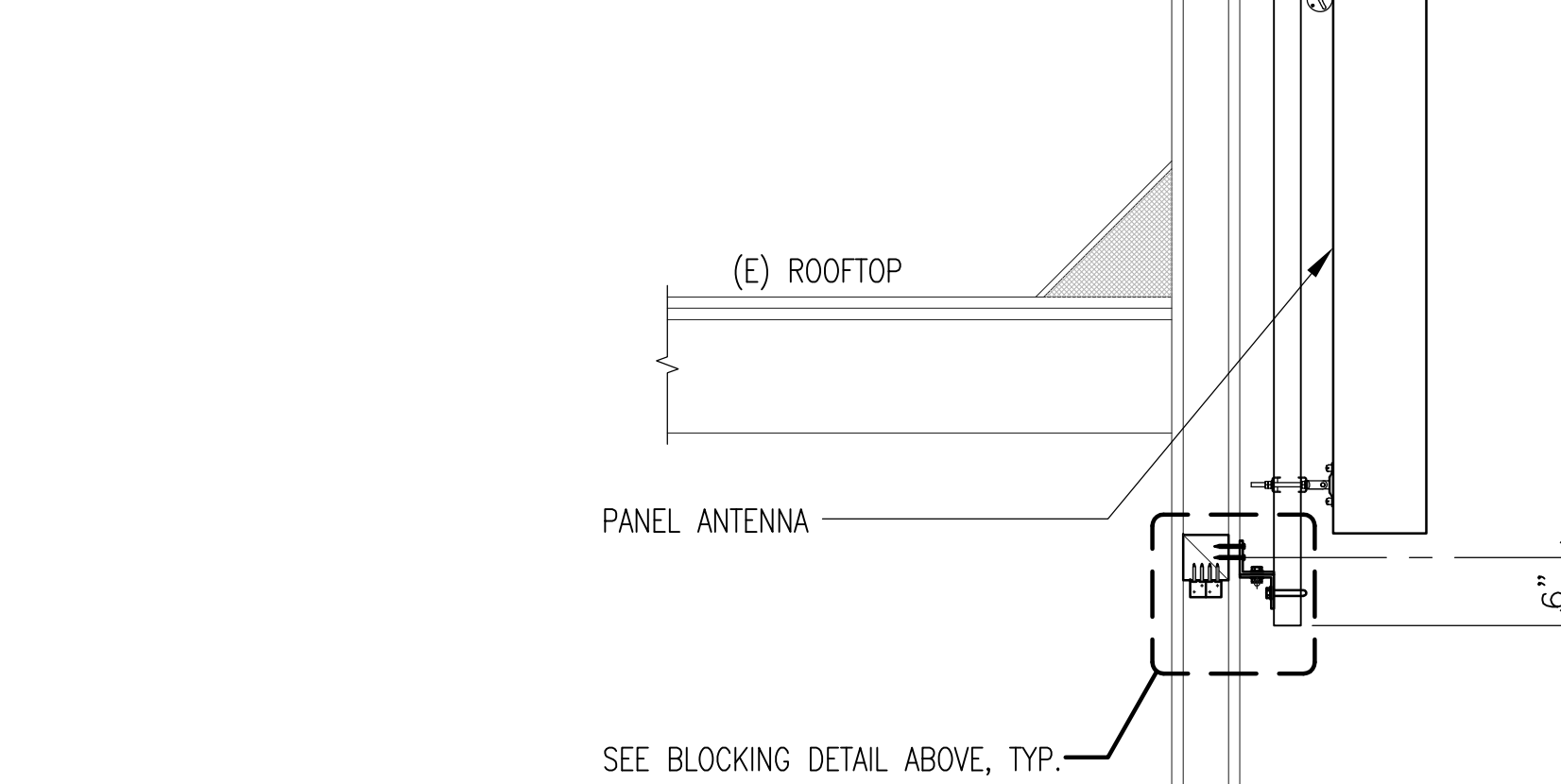
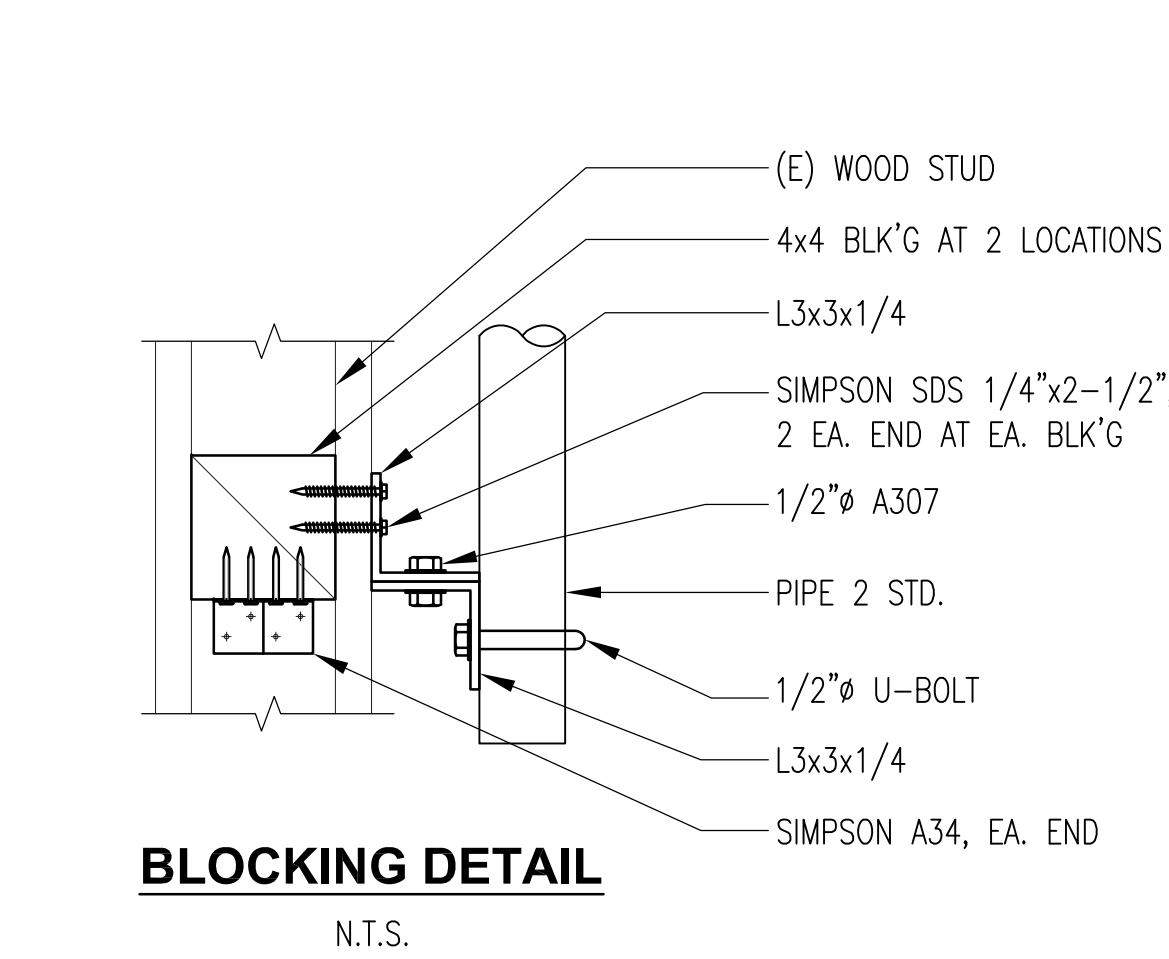
SCALE: N T S **5**

MANUFACTURER: RFS  
 MODEL NO: APXVBLL15X\_43-C-120  
 OPERATING BAND: 4x694-960MHz, 4x1695-2690MHz  
 HEIGHT: 66.7"  
 WIDTH: 19.6"  
 DEPTH: 8.5"  
 WEIGHT: 82.5 LBS



**MULTI BAND PANEL ANTENNA SPECS**

SCALE: N T S **3**

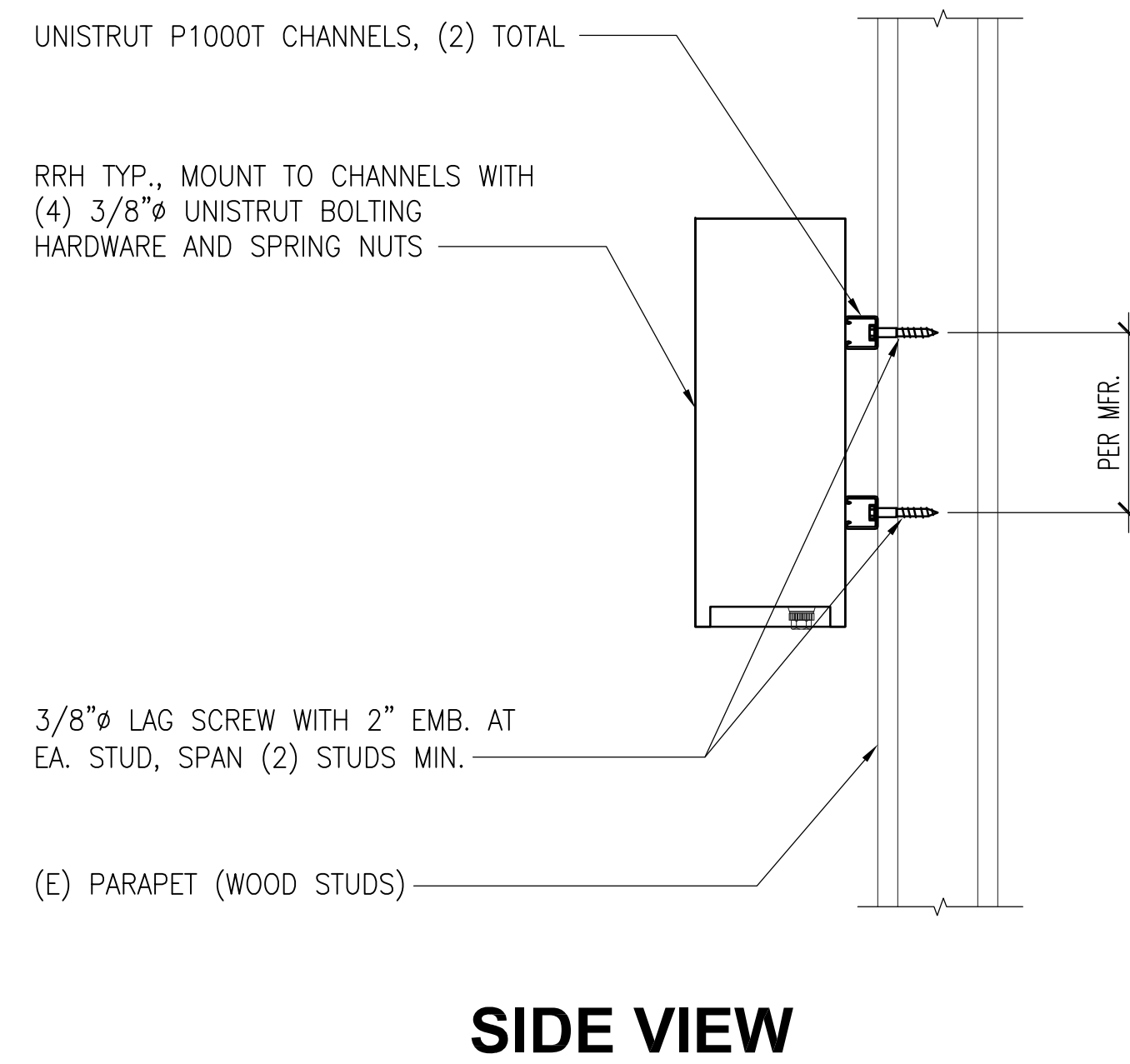


**NOTE**  
 1. PROVIDE SILICON SEALANT AT ALL BUILDING PENETRATIONS EXPOSED TO WEATHER WHEN REQ'D

**PANEL ANTENNA MOUNTING**

SCALE: N T S **1**

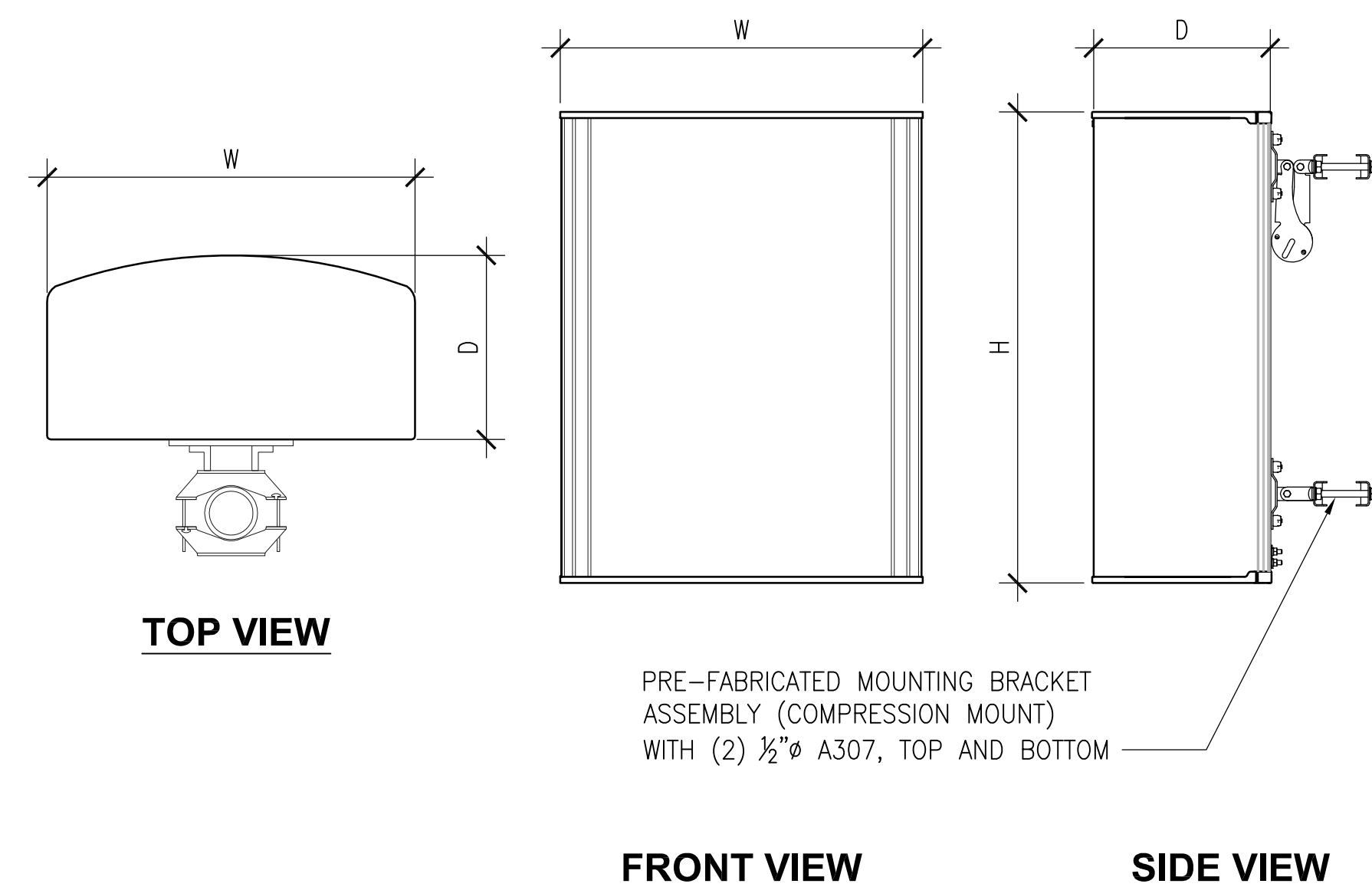
MANUFACTURER: NOKIA  
 MODEL NO: AIRSCALE MAA 64T64R 128AE B41 120W AAHF  
 OPERATING BAND: 2.630-2.690 GHz (BAND 41 FCC COMPLIANT)  
 HEIGHT: 25.6"  
 WIDTH: 19.7"  
 DEPTH: 9.6"  
 WEIGHT: 103.6 LBS



**NOTE:**  
 PROVIDE SILICON SEALANT AT ALL PARAPET PENETRATIONS

**RRH MOUNTING**

SCALE: N T S **4**



**MIMO ANTENNA SPECS**

SCALE: 1 1/2" = 1' **2**

**NOT USED**

SCALE: N T S **6**

PLANS PREPARED FOR:

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 IRVINE, CA 92602  
 PHONE: (714) 617-9342

PLANS PREPARED BY:

**DCI PACIFIC**  
 A|E|C WORKS

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OEM:

SAC:

**SURESITE**

36 EXECUTIVE PARK, SUITE 210  
 IRVINE, CA 92614

ARCHITECT LICENSE:

**LICENSURE ARCHITECT**  
 DK 00  
 C-18015  
 REG. 11/19  
 STATE OF CALIFORNIA

REVISIONS:	DESCRIPTION:	DATE:	BY:	REV:
	90% CD (PRELIM CD)	10/03/17	MT	A
	100% CD (FINAL CD)	10/16/17	FV	0
	SCOPE CHANGE	05/13/18	FV	1
	ADDITIONAL COMMENTS	07/25/18	HT	2
	ANTENNA AND RRH SCOPE CHANGE	04/25/19	FV	3
	MIMO SCOPE CHANGE	07/05/19	FV	4
	MINOR PLANNING COMMENTS	07/19/19	FV	5
	MINOR PLANNING COMMENTS	10/15/19	FV	6

SITE NAME:

**AGOURA HILLS**

SITE CASCADE:

**LA03XC200**

SITE ADDRESS:

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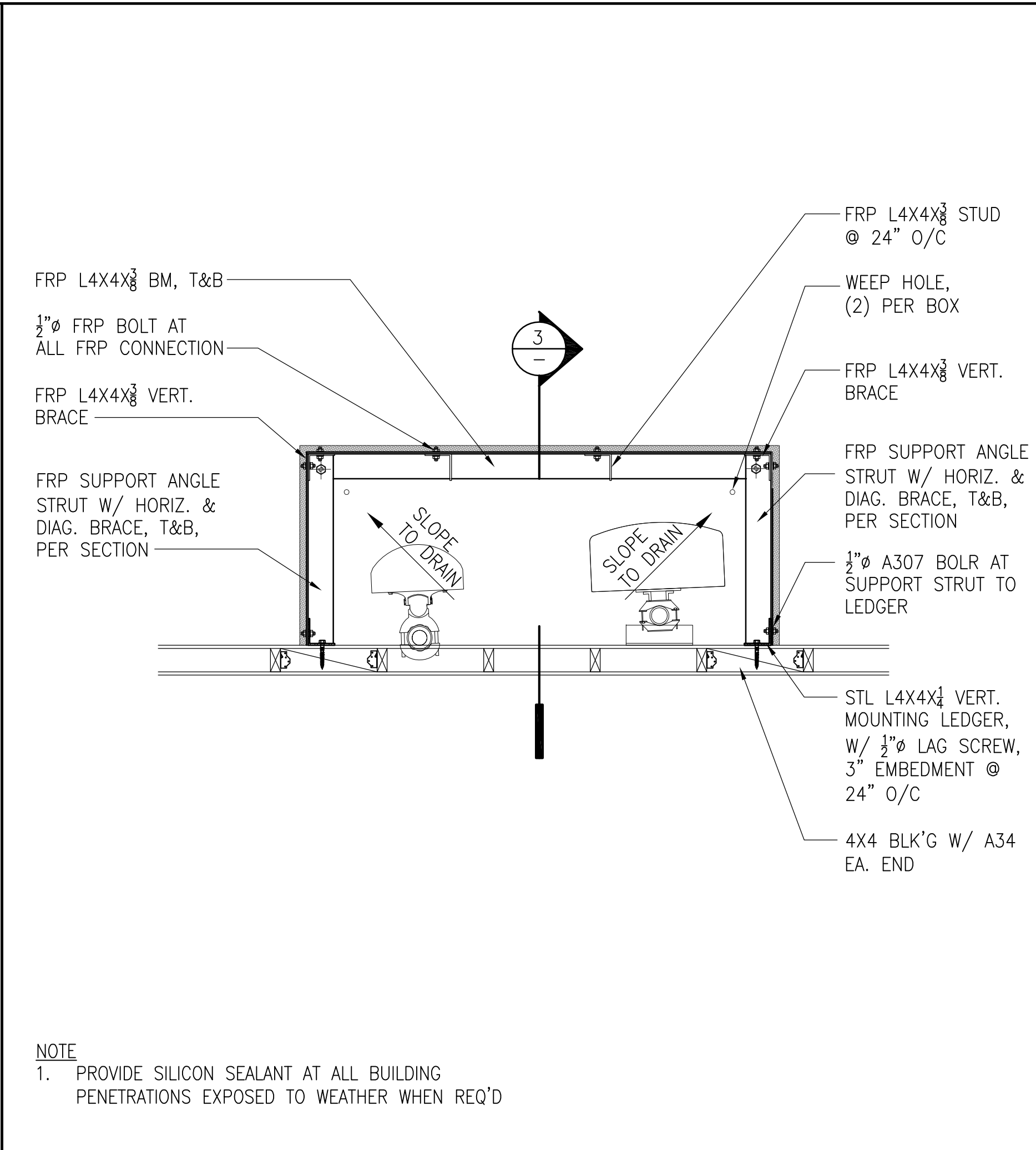
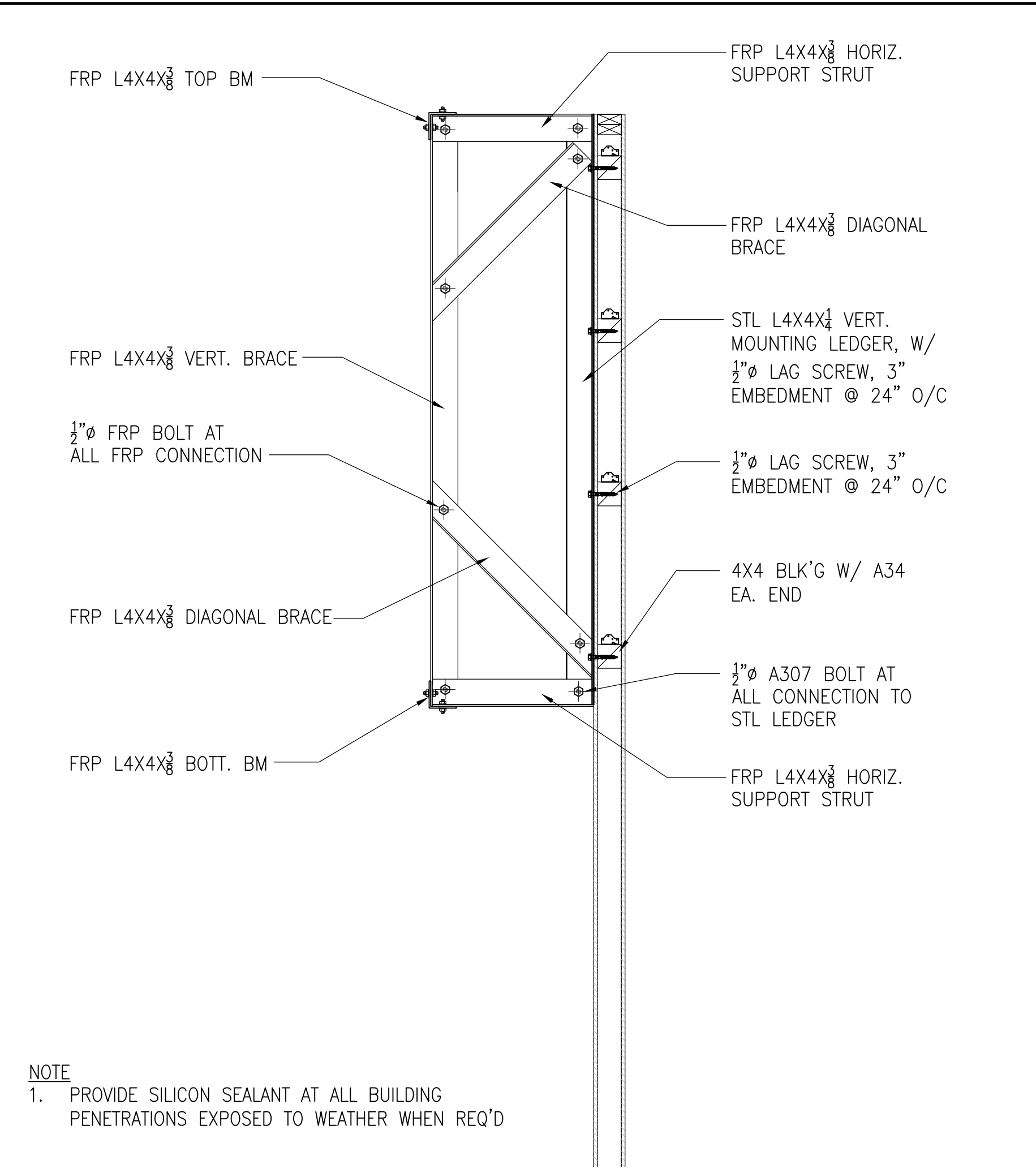
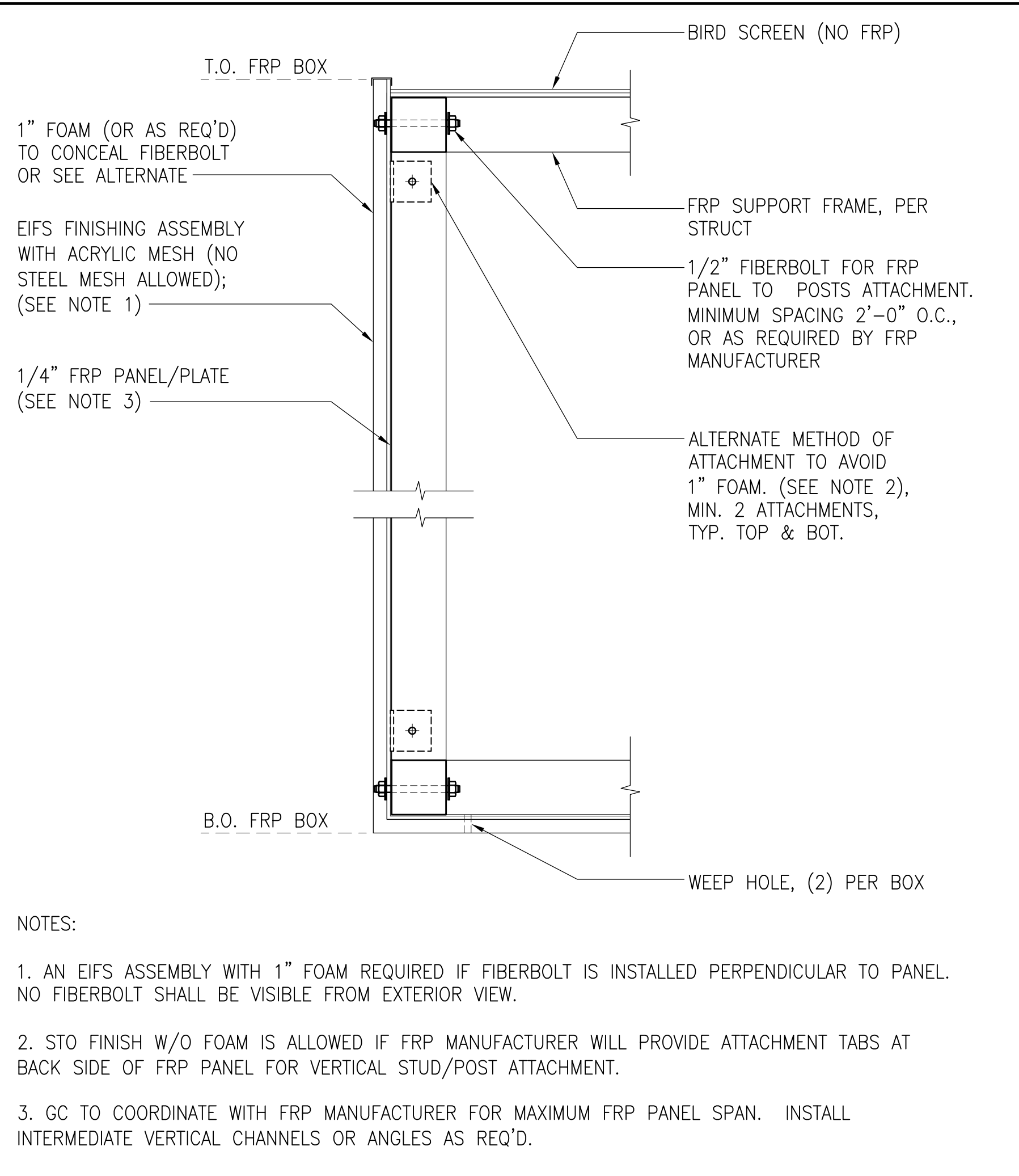
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**DETAILS**

SHEET NUMBER:

**D1**

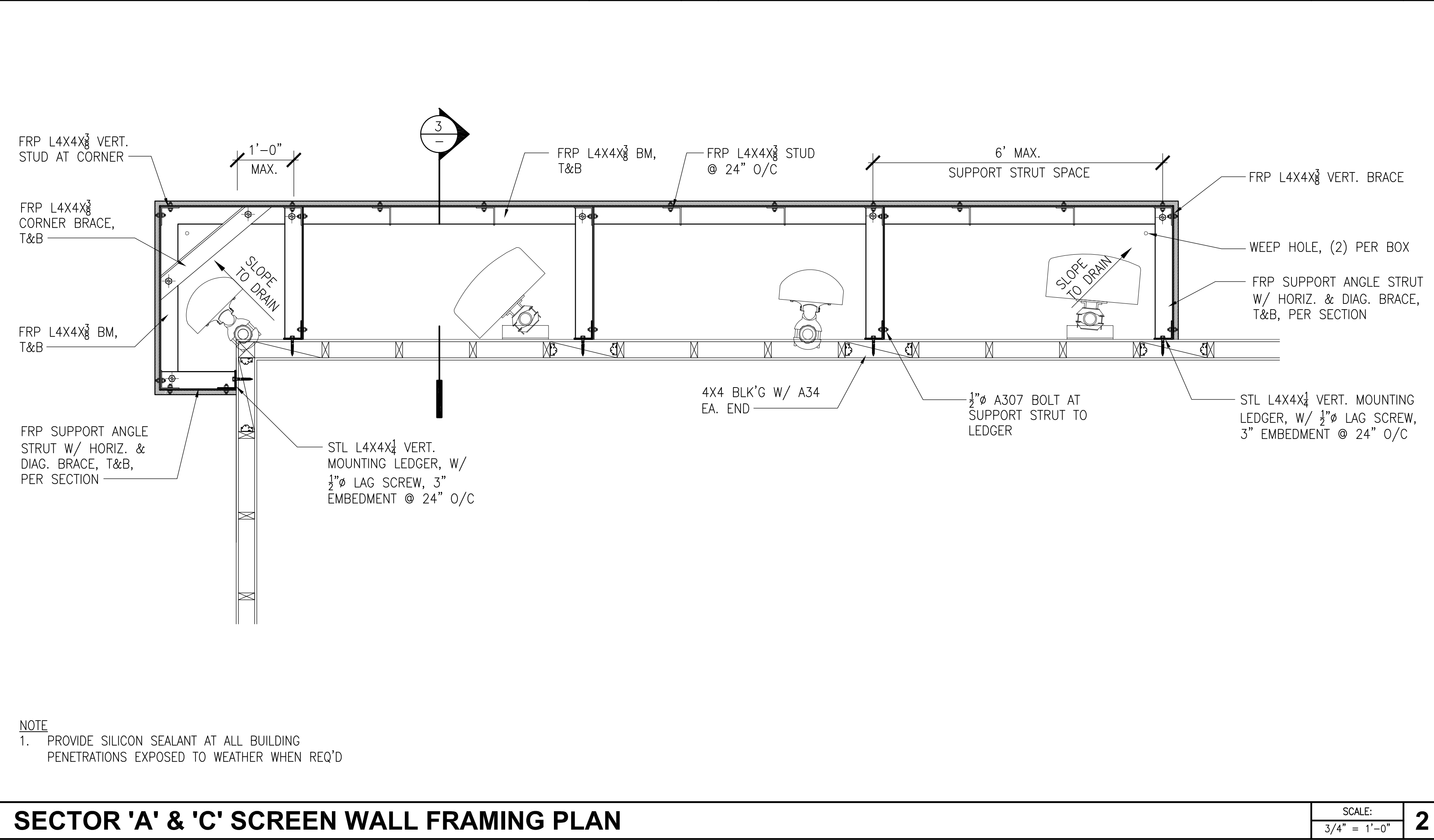
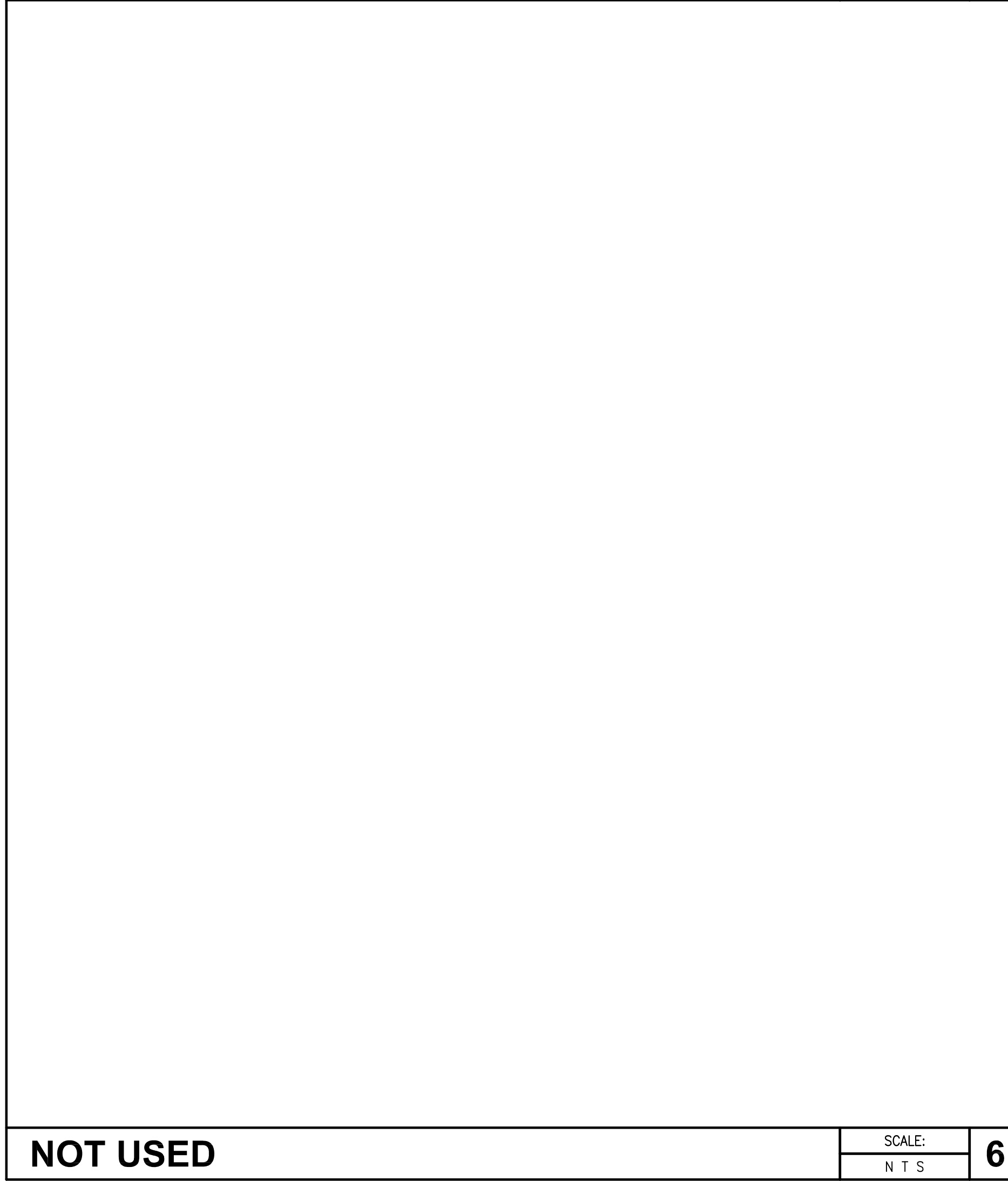
DO MACRO - MIMO & 2ND 800MHZ ±43'-6" BUILDING



**SCREEN WALL DETAIL** SCALE: N T S **5**

**SECTION** SCALE: 3/4" = 1'-0" **3**

**SECTOR 'B' SCREEN WALL FRAMING PLAN** SCALE: 3/4" = 1'-0" **1**



**NOT USED** SCALE: N T S **6**

**SECTOR 'A' & 'C' SCREEN WALL FRAMING PLAN** SCALE: 3/4" = 1'-0" **2**

PLANS PREPARED FOR:

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PHONE: (714) 617-9342

PLANS PREPARED BY:

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32 EXECUTIVE PARK | SUITE 110  
IRVINE | CA 92614

DEM:

SAC:

36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

ARCHITECT LICENSE:

REVISIONS:

DESCRIPTION:	DATE:	BY:	REV:
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100% CD (FINAL CD)	10/16/17	FV	0
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ADDITIONAL COMMENTS	07/25/18	HT	2
ANTENNA AND RRH SCOPE CHANGE	04/25/19	FV	3
MIMO SCOPE CHANGE	07/05/19	FV	4
MINOR PLANNING COMMENTS	07/19/19	FV	5
MINOR PLANNING COMMENTS	10/15/19	FV	6

SITE NAME:

**AGOURA HILLS**

SITE CASCADE:

**LA03XC200**

SITE ADDRESS:

**28030 DOROTHY DR  
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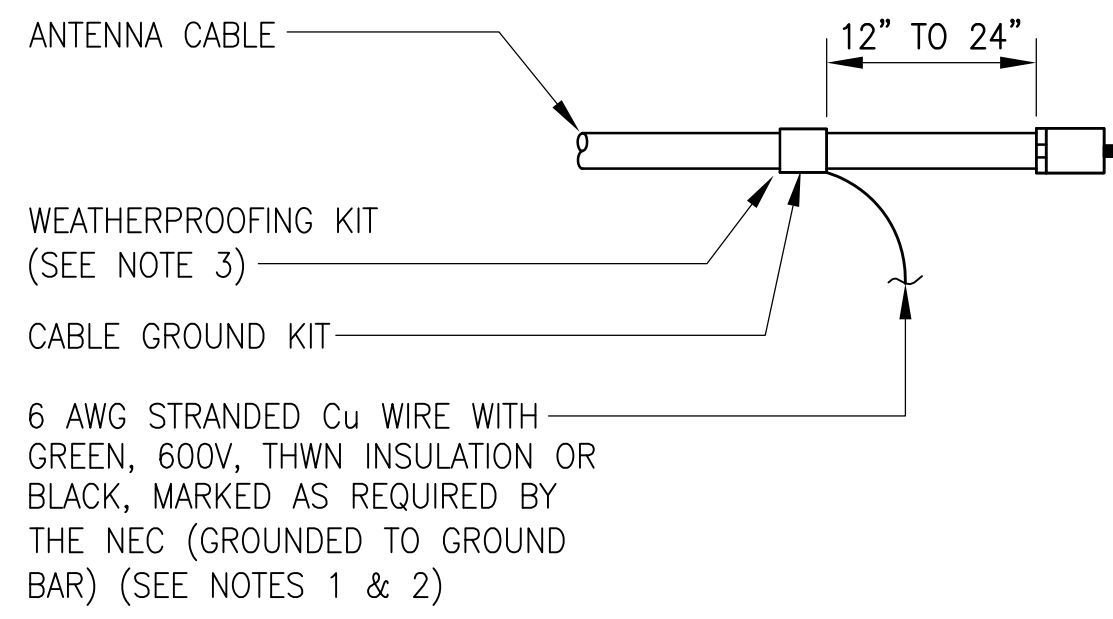
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**DETAILS**

SHEET NUMBER:

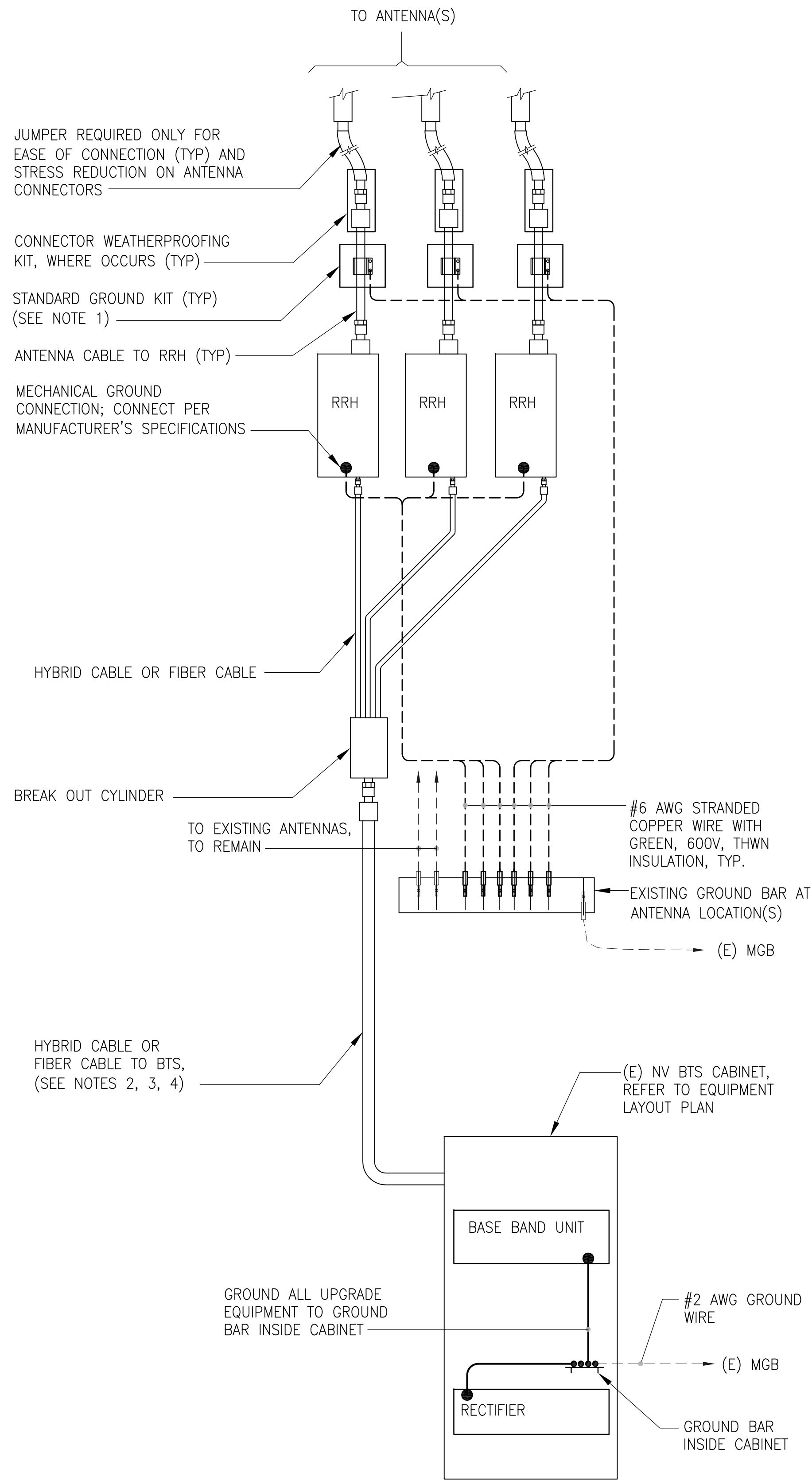
**D2**

REFER TO EQUIPMENT AND ANTENNA LAYOUT PLANS FOR GROUNDING PLAN VIEWS



**NOTES:**

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- GROUNING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
- WEATHERPROOFING SHALL BE (TYPE AND PART NUMBER) AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER AND APPROVED BY CONTRACTOR.



**NOTE:**

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR
- FOR TOWER SITES, BOND THE HYBRID CABLE TO THE EXISTING MAIN TOWER GROUND BAR/SYSTEM
- BOND NEW CABLES TO EXISTING MAIN/MASTER GROUND BAR (5)
- FOR SITE WITH ICE BRIDGE, BOND NEW CABLES TO EXISTING ICE BRIDGE GROUND BAR
- ALL GROUND WIRE TO GROUND BAR INSTALLATION SHALL HAVE DOUBLE (2 HOLE) LUG (2)

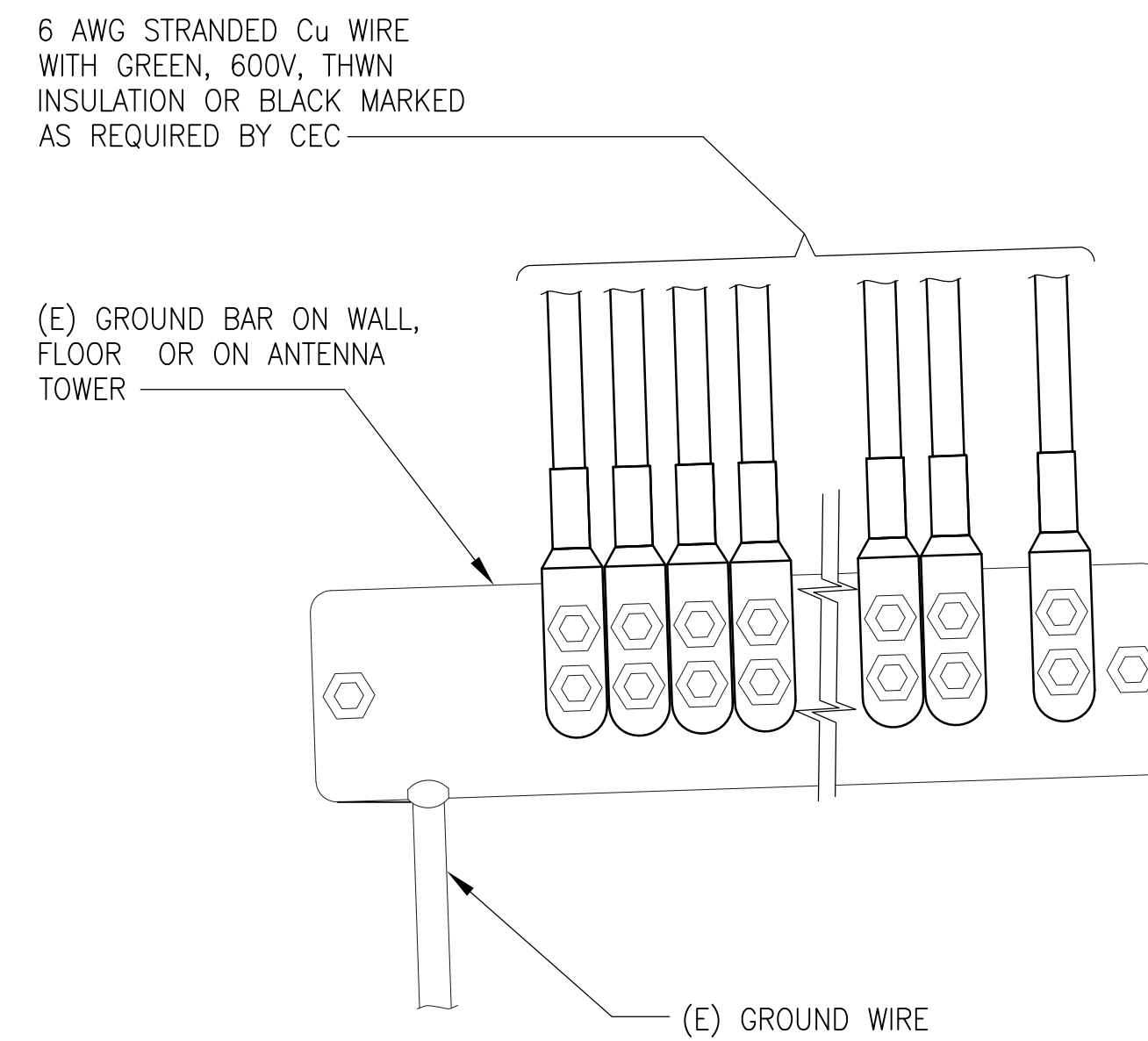
**NOTES:**

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE CEC.
- METAL RACEWAY SHALL NOT BE USED AS THE CEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED WITH STAINLESS STEEL HARDWARE TO THE BRIDGE AND THE TOWER GROUND BAR.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE W/ THE CEC.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

**SYMBOLS:**

- GROUND TEST WELL
- GROUND ROD
- COMPRESSION / MECHANICAL TYPE CONNECTION
- CADWELD TYPE CONNECTION
- GROUND WIRE
- GROUND BAR

**NOTES AND SYMBOLS**



**NOTES:**

- APPLY NO-OX TO LUG AND BAR CONTACT SURFACE. DO NOT COAT INLINE LUG
- IF STOLEN GROUND BARS ARE ENCOUNTERED, CONTACT SPRINT CM FOR REPLACEMENT THREADED ROD KIT

**CABLE GROUND KIT TO ANTENNA CABLE**

**5**

**NOT USED**

**6**

**GROUNING RISER DIAGRAM**

**4**

**GROUND CONDUCTOR TO GROUND BAR**

**2**

PLANS PREPARED FOR:

**Sprint**

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IRVINE, CA 92602  
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PLANS PREPARED BY:

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A/E/C WORKS

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OEM:

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SAC:

**SURESITE**

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ARCHITECT LICENSE:

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REVISIONS:

DESCRIPTION:	DATE:	BY:	REV:
90% CD (PRELIM CD)	10/03/17	MT	A
100% CD (FINAL CD)	10/16/17	FV	0
SCOPE CHANGE	05/13/18	FV	1
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---

SITE NAME:

**AGOURA HILLS**

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SITE CASCADE:

**LA03XC200**

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SITE ADDRESS:

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---

SHEET DESCRIPTION:

**GROUNING NOTES AND DETAILS**

---

SHEET NUMBER:

**D3**

## **ATTACHMENT 5**



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EXISTING



PROPOSED REPLACEMENT ANTENNAS  
BEHIND NEW REPLACEMENT SCREEN

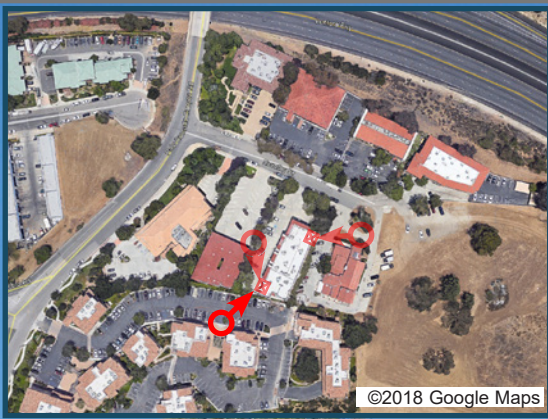
PROPOSED      LOOKING SOUTHEAST FROM PARKING LOT



EXISTING



PROPOSED      LOOKING SOUTHWEST FROM ADJACENT DRIVEWAY



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EXISTING



PROPOSED REPLACEMENT ANTENNAS  
BEHIND NEW REPLACEMENT SCREEN

PROPOSED      LOOKING NORTHEAST FROM ADJACENT PARKING LOT